# Stibnite Gold Project EIS Appendix J

Fish **Resources** and **Fish Habitat** (Including Threatened, Endangered, Proposed**,** and Sensitive Species)

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# Purpose

The purpose of this appendix is to provide additional information to support Sections 3.12 and 4.12 (Fish Resources and Fish Habitat) of the Stibnite Gold Project (SGP) Environmental Impact Statement (EIS). While those sections focus on the three Endangered Species Act (ESA)-listed and one U.S. Forest Service (Forest Service) sensitive species, this appendix provides additional information regarding other fish species in the analysis area. The analysis area is defined in Section 3.12, which also provides figures showing the locations referred to in this appendix.

# J.1 FISH SPECIES

## J.1.1 ALL FISH SPECIES

This section provides additional detail on fish species occurrences in support of Section 3.12.4.1, Fish Species, of the EIS. **Table J1-1** lists all the fish species that occur within the analysis area (defined in Section 3.12). **Table J1-2** includes the listed and sensitive fish species with a documented presence within the mine site. **Table J1-3** includes listed and sensitive fish species documented from other streams in the analysis area. Additional information is provided regarding the presence of brook trout in the analysis area because of the potential for Stibnite Gold Project (SGP)-related changes in its distribution.

### J.1.1.1 Brook Trout

Brook trout are considered a threat to native bull trout. Since both fish are char, live in some of the same habitats in Idaho, and spawn in the fall, they can interbreed. They also can threaten native cutthroat trout and rainbow trout because brook trout tend to be larger as fry and can outcompete for food resources when they co-occur in the same habitat. They can survive and thrive at a range of water temperatures and habitat conditions. Although brook trout will hybridize with bull trout, brook trout populations in the EFSFSR watershed appear to have limited dispersal and tend to be established in areas near original stocking sites (Thurow, pers. comm., 1996 *in* Kuzis 1997). They are more typically found in mountain lakes and beaver ponds, where sediments make spawning conditions less than ideal for rainbow trout and cutthroat trout

Brook trout were originally found in the eastern United States and Canada. They were stocked in headwater mountain lakes and streams in Idaho in the late 1800s and early 1900s. Brook trout are present in the South Fork Salmon River (SFSR) and Johnson Creek, where they were found to be most abundant in low gradient areas (Platts and Partridge 1983 *in* Kuzis 1997; Thurow 1987). They also have been recorded in the mainstem of the Secesh River, Lake Creek, and Loon Lake (Thurow 1987 *in* Kuzis 1997). There is one record of brook trout occurring in the East Fork South Fork Salmon River (EFSFSR) upstream of Tamarack Creek in 1989 (Kuzis 1997). Brook trout fry were observed in the Landmark Creek vicinity in 2012 (IDFG 2012).

MWH (2017) snorkeling surveys identified the potential presence of brook trout or bull trout/brook trout hybrids in Sugar Creek and Cinnabar Creek. Juvenile bull trout and brook trout are difficult to distinguish in the field so it is possible that some of these fish were actually brook trout. MWH (2017) states that some fish originally identified as brook trout were later changed to bull trout based on electrofishing surveys upstream of the Yellow Pine pit. Additional snorkeling surveys conducted in 2018 detected the potential presence of brook trout in a tributary to Mud Lake/Peanut Creek (Midas Gold 2019c).

**Table J1-1 Fish Species in the Analysis Area**

| Fish Species | | Species Presence | | |
|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Analysis Area Upstream of Yellow Pine Pit** | **Analysis Area Downstream of Yellow Pine Pit** | **Status/Distribution in South Fork of the Salmon River Subbasin** |
| **Native Anadromous Fish** | | | | |
| Snake River Spring/Summer-run Chinook Salmon Evolutionarily Significant Unit (ESU) | Oncorhynchus tshawytscha | Yes, supplemented | Yes | ESA Threatened, stable and found throughout subbasin |
| Snake River Basin Steelhead Trout Distinct Population Segment (DPS) | Oncorhynchus mykiss | No | Yes | ESA Threatened, stable and found throughout subbasin |
| Snake River Sockeye Salmon ESU | Oncorhynchus nerka | No | No | ESA Endangered, extirpated in subbasin, historical runs into Warm and Loon lakes |
| Pacific Lamprey | Entosphenus tridentatus | No | Potential | Uncommon, may be present in low densities |
| **Native Resident Fish** | | | | |
| Bull Trout | Salvelinus confluentus | Yes | Yes | ESA Threatened. South Fork Salmon River core area is increasing in population size |
| Kokanee | Oncorhynchus nerka | No | Yes | Landlocked sockeye. Present in Warm and Loon lakes |
| Longnose Dace | Rhinichthys cataractae | Potential | Yes | Likely found throughout subbasin |
| Mountain Whitefish | Prosopium williamsoni | Yes | Yes | Abundant in mainstem river and larger tributaries |
| Northern Pikeminnow | Ptychocheilus oregonensis | No | Yes | Locally common in lower SFSR downstream of the confluence with the Secesh River |
| Redside Shiner | Richardsonius balteatus | No | Yes | Uncommon, found in lower SFSR |

| Fish Species | | Species Presence | | |
|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Analysis Area Upstream of Yellow Pine Pit** | **Analysis Area Downstream of Yellow Pine Pit** | **Status/Distribution in South Fork of the Salmon River Subbasin** |
| Sculpin | Cottus *spp.* | Yes | Yes | Present but spotty observation record |
| Speckled Dace | Rhinichthys osculus | Potential | Potential | Unknown |
| Suckers | Catostomus *spp.* | Potential | Yes | Common throughout subbasin |
| Westslope Cutthroat Trout | Oncorhynchus clarkii lewisi | Yes | Yes | Forest Service Sensitive Species. Widely distributed but more common in higher gradient tributaries |
| **Introduced Resident Fish** | | | | |
| Cutthroat Trout | Oncorhynchus clarkii *ssp.* | No | Unlikely | Typically only found in alpine lakes-mixed stock |
| Rainbow Trout | Oncorhynchus mykiss | Unlikely | Yes | Present throughout subbasin |
| Cutthroat Trout x Rainbow Trout Hybrid | *NA* | Yes | Unlikely | Typically only found in alpine lakes |
| Brook Trout | Salvelinus fontinalis | No | Yes | Locally common in some tributaries, including Johnson Creek; not common in East Fork of the South Fork of the Salmon River (EFSFSR) watershed |
| Lake Trout | Salvelinus namaycush | No | No | Found in Warm Lake |
| Golden Trout | Oncorhynchus mykiss aguabonita | Yes | Unlikely | Found in Meadow Creek Lake and other alpine lakes |
| Arctic Grayling | Thymallus arcticus | Yes | Unlikely | Found in Meadow Creek Lake and other alpine lakes |

Table Source: Kuzis 1997; Idaho Department of Environmental Quality (IDEQ) 2002; Idaho Department of Fish and Game (IDFG) 2013a; 2018a; National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NMFS) 2016; U.S. Fish and Wildlife Service (USFWS) 2015a,b.

Table Notes:

DPS = Distinct Population Segment

ESU = Evolutionarily Significant Unit

ESA = Endangered Species Act

EFSFSR = East Fork South Fork Salmon River

SFSR = South Fork Salmon River

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**Table J1-2 Listed and Sensitive Fish Species with a Documented Presence in the Mine Site by Stream**

| Fish Species | | Stream | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Cane Creek** | **Cinnabar Creek** | **East Fork Meadow Creek** | **EFSFSR Downstream of the Yellow Pine Pit** | **EFSFSR Upstream of the Yellow Pine Pit** | **EFSFSR Upstream of Confluence with Meadow Creek** | **Fern Creek** | **Fiddle Creek** | **Garnet Creek** | **Hennessy Creek** | **Meadow Creek** | **Meadow Creek Lake** | **Midnight Creek** | **Rabbit Creek** | **Sugar Creek** | **West End Creek** | **Yellow Pine Pit Lake** |
| Bull Trout | *Salvelinus confluentus* | 1,2,4,5 | 1,2,4,5 | --- | 1,2,3,4 | 1*,2,3,4,9* | 1*,2,9*, 11* | 1*,9* | 1*,2,9* | --- | --- | 1,2,4 | --- | --- | n.d. | 1,2,4,5 | n.d. | 2,7 |
| Chinook Salmon | *Oncorhynchus tshawytscha* | --- | --- | 1 | 1,2,3,4,6 | 1,2,6 | 1,2 | --- | --- | --- | --- | 1,2,6 | --- | --- | n.d. | 1,2,4,5 | n.d. | 7 |
| Steelhead/Redband/ Rainbow Trout | *Oncorhynchus mykiss* | --- | 1,4 | 1*(NPT),4,9* (hybrid) | 1,2,3,4,5 | --- | --- | --- | 7 | --- | --- | --- | 1* (likely golden trout),9* | --- | n.d. | 1,2,4 | n.d. | --- |
| Westslope Cutthroat Trout | *Oncorhynchus clarkii lewisi* | 2,4 | 1,2 | 1 | 1,2,3,4,11* | 1,2,3,4 | 1,2,3,4 | 1*,5,9*, 11* | 1,2 | 1*,9* | --- | 1,2,4,5 | 1*,9* | --- | n.d. | 1,2,4 | n.d. | 2,7 |

Table Notes:

Footnotes for Tables 2 and 3:

* = presence only detected by eDNA

NPT = Nez Perce Tribe study; n.d. = no data; WCT = Westslope Cutthroat Trout; RB = Rainbow Trout

In the MWH 2017 report, WCT/RB hybrids (predominantly WCT alleles) were reported during eDNA testing in lower EFSFSR (downstream of Yellow Pine pit), Upper EFSFSR (upstream of Meadow Creek), and Meadow Creek.

Numbers denote references listed in footnotes following Table 3.

**Table J1-3 Listed and Sensitive Fish Species Documented in Other Streams in the Analysis Area**

| Fish Species | | River/ Stream | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Burntlog Creek** | **Cabin Creek** | **Fourmile Creek** | **Goat Creek** | **Johnson Creek** | **Landmark Creek** | **Profile Creek** | **Riordan Creek** | **South Fork Salmon River** | **Tamarack Creek** | **Trail Creek** | **Trapper Creek** | **Trout Creek** | **Warm Lake Creek** |
| Bull Trout | *Salvelinus confluentus* | 2,10,11* | 2 | 2 | 2 | 2 | 2 | 2,3,4 | 2,8* | 2 | 1,2,3,4 | 2 | 2, 11* | 2 | 2 |
| Chinook Salmon | *Oncorhynchus tshawytscha* | 2,10 | 2 | 2,8* | 2 | 2 | 2 | 2 | 2 | 2 | 1,2,3,4 | --- | 2 | --- | 2 |
| Steelhead/Redband/ Rainbow Trout | *Oncorhynchus mykiss* | 2,8*,10,11* | 2 | 2 | 2,8* | 2 | 2 | 2,3,4 | 2 | 2 | 1,2,3,4 | --- | 2,11* | --- | 2 |
| Westslope Cutthroat Trout | *Oncorhynchus clarkii lewisi* | 2,8*,10,11* | 2 | 2 | 2 | 2 | 2 | 2,3,4 | 2 | 2 | 1,2,3,4,5 | --- | 2,11* | 2 | 2 |

Table Source: 1 Montgomery Watson Harza (MWH) 2017; 2 StreamNet Fish Distribution (SNFD) no date; 3 Thurow 1987 4 in Kuzis 1997; 5 IDEQ 2018b in BioAnalysts 2018; 6 Idaho Fish and Wildlife Information System (IFWIS) 2018; 7 Zurstadt and Nelson 2010 in BioAnalysts 2018; 8 Stantec 2017; 9 Carim et al. 2017; 10 Boise National Forest (BNF) Aquatic Database 2017; 11 Midas Gold 2019c.

Table Notes:

Footnotes for Tables 2 and 3:

* = presence only detected by eDNA

NPT = Nez Perce Tribe study; n.d. = no data; WCT = Westslope Cutthroat Trout; RB = Rainbow Trout

In the MWH 2017 report, WCT/RB hybrids (predominantly WCT alleles) were reported during eDNA testing in lower EFSFSR (downstream of Yellow Pine pit), Upper EFSFSR (upstream of Meadow Creek), and Meadow Creek.

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# J.2 ADDITIONAL INFORMATION ON PROJECT-RELATED SURVEYS

SGP-related survey tables provide additional detail in support of Section 3.12.4.1, Fish Species, of the EIS. This section (**Tables J1-4** through **J1-6**) provides additional aquatic habitat and biological conditions survey information conducted within the analysis area, including source references. **Table J1-5** provides a list of all the fish and stream habitat data collected in and near the analysis area between 1991 and 2019.The locations of the surveys are illustrated on **Figures 3.12-4** and **3.12-5** in Section 3.12.4.1, Fish Species, of the EIS.

**Table J1-4 Aquatic Habitat and Biological Conditions Sampling Protocols**

| Data type | Sampling Protocol | Parameters |
|---|---|---|
| Aquatic Habitat | Cobble embeddedness survey (Forest Service 2007a *in* MWH 2017) | Substrate size (diameter)<br>Depth of embeddedness |
| | Free matrix survey (Forest Service *in* MWH 2017) | Fine sediment (surface fines)<br>Free cobbles |
| | Geomorphic assessment (HDR 2016) | Stream gradient, confinement, and sediment supply |
| | Modified McNeil core and suspended sediment sampling (Forest Service 2007 *in* MWH 2017) | Spawning sediment depth fines<br>Overall sample particle size distribution (water displacement)<br>Suspended sediment concentrations |
| | PACFISH/INFISH Biological Opinion Monitoring Program (PIBO) habitat surveys (Forest Service 2013, 2014, 2015; Henderson et al. 2005 *in* MWH 2017) | Bankfull width and depth<br>Wetted width and depth<br>Bank stability/angle<br>Bed sediment size<br>Reach gradient<br>Pool dimensions<br>Large woody debris |
| | Water temperature (Forest Service 2013 *in* MWH 2017) | Continuous stream water temperature (15-minute intervals) |
| | Water quality (MWH 2017) | Water temperature, sediment/turbidity, and chemical contaminants/nutrients |
| Biological Conditions | Fisheries surveys- PIBO and U.S. Forest Service protocols (Heitke et al. 2011; Thurow 1994 *in* MWH 2017) | Fish presence/absence, population abundance, and genetics. Sampling methods included snorkeling, electrofishing, eDNA, and videography. |
| | Macroinvertebrate surveys- PIBO and IDEQ protocols (Heitke et al. 2011; Grafe 2002 *in* MWH 2017) | Idaho Stream Macroinvertebrate Index (SMI) metrics:<br>Richness<br>Evenness/diversity<br>Relative abundances<br>Functional feeding groups<br>Habitat/behavior<br>Pollution tolerance |
| | Metals surveys (MWH 2017) using EPA (2006) ecological screening-level benchmarks | Metal concentrations in sediment, fish, and macroinvertebrates |

Table Source: Cited in the table.

**Table J1-5 Fisheries and Stream Habitat Data Collected Within and Near the Analysis Area, 1991-2019**

| Data Source | Project/Study | Location | Data Years | Available Data[1] | Data Collection Methods[2] | Species Information | Reference |
|---|---|---|---|---|---|---|---|
| Boise National Forest | Boise National Forest Aquatic Database | Analysis area and vicinity | 1991-2016 | Habitat, fish community | Electrofishing, snorkel, eDNA, PIBO and other stream habitat surveys | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout | BNF (2017) |
| GeoEngineers | Aquatic Resources 2016 Baseline Study Addendum Report | Mine site Study Area | 2015 | Fish community, population estimates | Electrofishing/mark-recapture surveys | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout | GeoEngineers (2017) |
| HDR | Stream Functional Assessment | Mine site Study Area | 2015-2016 | Habitat | Stream habitat surveys | Habitat data only | HDR (2016) |
| MWH | Aquatic Resources 2016 Baseline Study | Mine site Study Area | 2012-2016 | Habitat, fish community, macroinvertebrates, fish tissue | Electrofishing, snorkel, eDNA, PIBO and other stream habitat surveys | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout | MWH (2017) |
| Nez Perce Tribe | Status and Monitoring of Natural and Supplemented Chinook Salmon | Johnson Creek, Burntlog Creek, EFSFSR, and associated tributaries, including Meadow Creek | 2005-2017 | Adult and smolt data; redd counts | Weir counts and spawning ground survey | Chinook salmon | Rabe and Nelson (2007, 2008, 2009, 2010, 2013, 2014); Rabe et al. (2016a,b; 2017, 2018) |
| Nez Perce Tribe | Chinook and Bull Trout Redd Count Data | Johnson Creek, Burntlog Creek, EFSFSR, and tributaries, including Meadow Creek | 1998-2018 | GIS data on redd counts | Spawning ground survey | Chinook salmon and bull trout | Nez Perce Tribe (2018) |
| Stantec | Aquatic Resources 2017 Baseline Study Tech Memo | Mine site Study Area, as well as access roads and control sites | 2017 | Habitat and fish community | Stream habitat and eDNA surveys | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout | Stantec (2017) |

| Data Source | Project/Study | Location | Data Years | Available Data[1] | Data Collection Methods[2] | Species Information | Reference |
|---|---|---|---|---|---|---|---|
| Great Ecology | Supplemental Stream and Wetland Baseline Data Report for the Stibnite Gold Project | Mine site Study Area, as well as access roads | 2018 | Habitat | Stream habitat surveys | Habitat data only | Great Ecology (2018) |
| Brown and Caldwell | Yellow Pine Pit Fish Monitoring Summary | Yellow Pine Pit | 2018-2019 | Fish community | Seining and hook-and-line angling. | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout, whitefish | Brown and Caldwell (2019, 2020) |
| Midas Gold/USFS | eDNA Sampling | Mine site area and access roads | 2018 | Fish community | eDNA sampling | Chinook salmon, bull trout, westslope cutthroat trout, rainbow trout, brook trout | Midas Gold 2019c |

Table Source: Cited in the table.

Table Notes:

1 Available data: stream habitat (e.g., habitat unit, riparian habitat, PIBO methodology, substrate type, water temperature, water velocity), fish community (e.g., eDNA, presence/absence, redd counts, juvenile density), tissue residues (metals), population estimates, etc.

2 Data collection methods applied (e.g., fish surveys, weir counts, spawning ground surveys, stream habitat surveys (e.g., PIBO).

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**Table J1-6 Waterbodies Surveyed for Fish and Aquatic Habitat within the Analysis Area, 1991 to 2017**

| Waterbody | SGP Component | Fish Surveys | | | | | | Habitat Surveys[1,2] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | eDNA | Electrofishing | Ground Survey (Redd Counts) | Snorkel | Videography | Weir Counts | Aerial Survey | Bathymetry | Habitat Assessment (e.g., PIBO) | Macroinvertebrates | Reconnaissance |
| Burntlog Creek | Access Roads | | X[4] | X[3] | X[4] | | | X | | X | | X |
| Cane Creek | Mine Site | | | | X[2] | | | | | | | |
| Cinnabar Creek | Mine Site | | X[2] | | X[2] | | | | | | | |
| East Fork Meadow Creek | Mine Site | X[2] | | | X[2] | | | X | | X | | X |
| East Fork South Fork Salmon River | Mine Site, Access Roads | X[2] | X[2] | X[3] | X[2] | | | | | X | X | X |
| Fiddle Creek | Mine Site | X[2] | | | X[2] | | | | | X | | X |
| Fourmile Creek | None- Reference Stream | | | | X[4] | | | | | | | |
| Garnet Creek | Mine Site | X[2] | | | | | | | | | | X |
| Goat Creek | None- Reference Stream | | X[4] | X[3] | X[4] | | | | | | | |
| Hennessy Creek | Mine Site | | | | | X[2] | | | | | | X |
| Johnson Creek | Utilities, Access Roads | | X[4] | X[3] | X[4] | | X[3] | | | | | |
| Meadow Creek | Mine Site | X[2] | X[2] | X[3] | X[2] | | | | | X | X | X |
| Midnight Creek | Mine Site | X[2] | | | X[2] | X[2] | | | | | | X |
| Profile Creek | None- Reference Stream | | | | | | | | | X | | |
| Riordan Creek | Access Roads | | X[4] | X[3] | X[4] | | | X | | X | | X |
| South Fork Snake River | Utilities | | X | X[3] | X | | | | | | | |
| Sugar Creek | Mine Site | | X[2] | X[3] | X[2] | | | X | | X | X | X |
| Tamarack Creek | None- Reference Stream | | | | X[2] | | | | | | X | |
| Trapper Creek | Access Roads | | X[4] | X[3] | X[4] | | | X | | X | | X |
| Yellow Pine Pit | Mine Site | X[2] | | | | | | | X | | | |

Table Source: [1] HDR 2016; [2] MWH 2017; [3] Nez Perce Tribe; [4] BNF Aquatic Database 2017

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# J.3 ENVIRONMENTAL BASELINE MATRIX - WATERSHED CONDITION INDICATOR TABLES

This section provides additional supporting information for Section 3.12.4.7, Watershed Condition Indicators.

The Southwest Idaho Ecogroup Matrix of Pathways and watershed condition indicators (WCI Matrix or Matrix) (Forest Service 2003b) have been applied to evaluate the affected environment for fish and fish habitat in the analysis area. The WCI Matrix evaluates stream function by measuring elements that reflect water quality, habitat access, channel conditions and dynamics, flow and hydrology, and watershed conditions. Furthermore, the WCI Matrix comprises a series of "pathways" by which mining, reclamation, or restoration activities can have potential effects on native and desired non-native fish species, their habitats, and the associated ecological function. Finally, the WCI Matrix was developed specifically to assist in project design and analysis during National Environmental Policy Act (NEPA) assessments of proposed projects, for application in the Payette and Boise National Forests (Forest Service 2003b, 2010).

The WCI Matrix can be an important tool in tracking how management actions, over time, are trending: "functioning at unacceptable risk" (FUR), "functioning at risk" (FR), and "functioning appropriately" (FA) condition, or are maintaining FA indicators at multiple scales. For each stream reach that may be affected by the SGP, the environmental Baseline for each of the relevant pathways and WCIs in the Matrix has been evaluated. For mine site streams, most of the pathways and WCIs are described at the stream reach level where data are available. Other pathways and WCIs (e.g., bull trout population characteristics, refugia, watershed conditions) are designed to be evaluated at a higher level, so they have been described by subwatershed or watershed. All locations of SGP components outside the mine site Study Area are described at the subwatershed-level due to the lower level of impacts anticipated.

**Description of the WCI Matrix**

There are four tables in the Forest Plan Matrix: (1) Table B-1: Pathways for WCIs, "Reference Conditions"; (2) Table B-2: Environmental Baseline, "Current Conditions"; (3) Table B-3: Effects of Management Actions; and (4) Table B-4: Dichotomous Key for Making ESA Determinations of Effect and Documentation of Expected Incidental Take for Listed Fish Species.

The first three tables are divided into eight pathways, with B-1 providing the criteria for the evaluation in Tables B-2 and B-3. Table B-4 is a dichotomous key to assist in ESA determinations. Each of the eight pathways (bull trout local population characteristics, water quality, habitat access, habitat elements, channel conditions and dynamics, flow/hydrology, watershed conditions, and integration of pathways) represents a way in which actions can have potential effects on fish species, their habitats, and associated beneficial uses. Pathways are

further broken down into 26 WCIs. WCIs are described with respect to functionality (i.e., FA= Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk). The FA rating represents the desired condition to strive toward for each particular WCI. **Table J1-7** is the Matrix Table B-1 – List of WCI Pathways and Indicators from the Forest Service (2003b).

**Table J1-7 Matrix Table B-1 - List of WCI Pathways and Indicators**

| Pathways | Indicators |
|---|---|
| Bull Trout Local Population Characteristics within Core Areas | Subpopulation Size |
| | Growth and Survival |
| | Life History Diversity and Isolation |
| | Persistence and Genetic Integrity |
| Water Quality | Water Temperature (Chinook Salmon and Steelhead) |
| | Water Temperature (Bull Trout) |
| | Sediment/Turbidity (Chinook Salmon and Steelhead |
| | Sediment/Turbidity (Bull Trout) |
| | Chemical Contaminants/Nutrients |
| Habitat Access | Physical Barriers |
| Habitat Elements | Substrate Embeddedness |
| | Large Woody Debris |
| | Pool Frequency and Quality |
| | Large Pools/Pool Quality |
| | Off-Channel Habitat |
| | Refugia (Chinook Salmon and Steelhead) |
| | Refugia (Bull trout) |
| Channel Conditions and Dynamics | Wetted Width/Maximum Depth Ratio |
| | Streambank Condition |
| | Floodplain Connectivity |
| Flow/Hydrology | Change in Peak/Base Flows |
| | Change in Drainage Network |
| Watershed Conditions | Road Density and Location |
| | Disturbance History |
| | Riparian Conservation Areas |
| | Disturbance Regime |
| Integration of Species and Habitat Conditions | By species |

Table Source: Forest Service 2003b

**Use of Stream Functional Assessment For Matrix WCI Evaluation**

The Stream Functional Assessment (SFA) developed for the SGP by HDR (2016), Great Ecology (2018), and finalized by Rio ASE (2019), was used in large part to evaluate the Baseline condition of WCIs in the analysis area. The SFA is a reach-scale assessment tool used to rate stream function by evaluating up to 20 discrete elements, each representing a different physical, chemical, or biological condition collectively used as a surrogate for evaluating stream function.

The SFA covers the streams at the mine site, divided into SFA reaches. **Table J1-8** provides a cross-reference between the six reaches described previously and the 42 SFA reaches. For Reaches 1 through 4, the following analysis was conducted at the reach-scale (i.e., summarized for the two subwatersheds); because the SFA does not cover all potentially affected streams outside the mine site, Reaches 5 and 6 are analyzed at the subwatershed scale. In each reach section discussed in the following narrative, a summary table is provided, which is Table B-2 from Appendix B of the Payette National Forest Land and Resource Management Plan (Payette Forest Plan) (Forest Service 2003b).

**Table J1-9** provides a summary of the SFA indicators, elements, and scoring criteria from Rio ASE (2019).

**Mine Site Streams: Reach-Level Pathways and WCIs**

**Tables J1-10** through **J1-15** are summaries of the WCI ratings in each of the mine site reaches. The ratings were derived from the SFA (Rio ASE 2019) by calculating a weighted average of the ratings of the SFA reaches. Table B-2 of the Payette Forest Plan (Forest Service 2003b) for each reach is provided in Rio ASE (2019), Appendix K.

**Table J1-8 Cross-reference Among the Six Reaches and Baseline Stream Functional Assessment Reaches**

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| Reach 1: EFSFSR (and tributaries) from Sugar Creek to Meadow Creek | EFSFSR | EF2.1 | 2,180 | - | EFSFSR from its confluence with Meadow Creek downstream to its confluence with Garnet Creek. |
| | | EF2.2 | 5,871 | MWH-059 | EFSFSR from its confluence with Garnet Creek downstream to its confluence with Fiddle Creek. |
| | | EF2.3 | 127 | - | EFSFSR from its confluence with Fiddle Creek downstream to its confluence with the diverted Midnight Creek channel during mining (interim phase). |
| | | EF2.4 | 759 | - | EFSFSR from its confluence with the diverted Midnight Creek (interim phase) downstream to the upper (southern) EFSFSR tunnel portal (interim phase). |
| | | EF2.5 | 318 | - | EFSFSR from the upper (southern) EFSFSR tunnel portal (interim phase) downstream to the edge of the proposed Yellow Pine pit and associated access road. |
| | | EF3 | 2,713 | - | EFSFSR immediately upstream and downstream of Yellow Pine pit. |
| | | EF3.1 | 727 | - | EFSFSR from the upstream boundary of the proposed expanded Yellow Pine pit downstream to the proposed confluence with Midnight Creek (immediately upstream of the existing cascade into the Yellow Pine pit lake). |
| | | EF3.2 | 514 | - | EFSFSR from the proposed confluence with Midnight Creek downstream to the edge of the existing Yellow Pine pit lake (includes the existing cascade into Yellow Pine pit lake and associated alluvial fan). |
| | | EF3.3 | 1,575 | - | EFSFSR immediately below the existing Yellow Pine pit lake downstream to the bottom edge of the proposed expanded Yellow Pine pit. |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | | EF4.1 | 513 | - | EFSFSR from the downstream extent of the expanded Yellow Pine pit to the confluence of the proposed EFSFSR tunnel and associated transition channel. |
| | | EF4.2 | 512 | - | EFSFSR from the confluence of the proposed EFSRSR tunnel and associated transition channel downstream approximately to the EFSFSR bridge. |
| | | EF5 | 1,109 | - | EFSFSR downstream of Sugar Creek confluence. |
| | West End Lake (currently West End Creek) | WL1 | 1,457 | - | Reach of middle West End Creek that would be routed around West End Pit during mining and replaced with a lake after mining. |
| | Hennessy Creek | HC0.01 | 4,240 | - | Hennessy Creek upstream of the mine disturbance footprint. |
| | | HC0.1 | 394 | H1 | Hennessy Creek upstream of the existing access road, but within the maximum disturbance area proposed during mining. |
| | | HC0.2 | 41 | | Hennessy Creek upstream of the existing access road (Baseline condition) and that lies between the EFSFSR tunnel diversion (interim phase) and the proposed highwall of the expanded Yellow Pine pit (restoration phase). |
| | | HC1.1 | 328 | | Hennessy Creek Baseline condition flows upstream of the access road. |
| | | HC1.2 | 1,924 | - | Hennessy Creek along the existing road during the Baseline phase. |
| | | HC1.3 | 1,515 | - | Hennessy Creek (Baseline phase) flows along the side of the existing road (both perennial and non-perennial condition). |
| | | HC1.4 | 244 | - | Hennessy Creek currently (Baseline) includes the most downstream 244 feet of the stream leading to its confluence with the EFSFSR downstream of the mouth of Sugar Creek. |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | Yellow Pine Pit | YP1 | 780 | - | Portion of the EFSFSR that flows through the existing Yellow Pine pit. |
| | Midnight Creek | MN0.1 | 2,566 | - | The uppermost reach of Midnight Creek upstream of any proposed interim phase disturbance. |
| | Midnight Creek | MN0.2 | 402 | - | Midnight Creek located between MN0.1 and MN0.3 that is crossed by a access route during the interim phase of the SGP. |
| | Midnight Creek | MN0.3 | 2,080 | - | Upper Midnight Creek located between MN0 and MN0.2 that falls between a proposed access route (upstream) and a proposed diversion (downstream) to reroute Midnight Creek to the EFSFSR upstream of the proposed EFSRSR tunnel during the interim SGP phase. |
| | Midnight Creek | MN0.4 | 1,105 | - | Midnight Creek upstream of the existing Yellow Pine pit that would be diverted around the interim/expanded Yellow Pine pit during the interim SGP phase. |
| | Midnight Creek | MN1 | 442 | - | Reach of Midnight Creek upstream of the existing Yellow Pine pit. |
| | Midnight Creek | MN2 | 153 | - | Reach of Midnight Creek where it currently cascades into the existing Yellow Pine pit. |
| | Fiddle Creek | FC0.1 | 2,245 | MWH-062 | The most upstream portion of Fiddle Creek, well upstream of the proposed mine impacts. |
| | | FC0.2 | 3,476 | | Upper Fiddle Creek located between two unnamed tributaries upstream of the proposed mine impacts |
| | | FC0.3 | 1,202 | | Upper Fiddle Creek located immediately upstream of the proposed Fiddle Creek DRSF. |
| | | FC1 | 4,126 | | Portion of Fiddle Creek that overlaps with the top of the Fiddle Creek DRSF. |
| | | FC2 | 2,220 | | Portion of Fiddle Creek that coincides with the steep face of the Fiddle Creek DRSF during mine operations. |
| | | FC3 | 466 | | Fiddle Creek between the lowest point of the proposed Fiddle |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | | | | | Creek DRSF and its confluence with the EFSFSR. |
| | Garnet Creek | GC0 | 2,214 | G1 | Portion of Garnet Creek upstream of the proposed restoration reach (GC1). |
| | | GC0.1 | 1,100 | | This reach includes the most upstream portion of Garnet Creek, upstream of proposed mine impact areas. |
| | | GC1 | 239 | | Most downstream reach of Garnet Creek, immediately upstream of its confluence with the EFSFSR. |
| Reach 2: Meadow Creek and East Fork Meadow Creek | Lower Meadow Creek | MC5 | 275 | MWH-014, MWH-004 | Short segment of the previously restored section of lower Meadow Creek. |
| | | MC6 | 2,357 | | Lower-most portion of Meadow Creek downstream to its confluence with the EFSFSR. |
| | Middle Meadow Creek (SODA) | MC3 | 2,133 | MWH-060, MWH-004 | Existing Meadow Creek where it is diverted around the upper half of the SODA within a low-sinuosity, rock-lined channel. |
| | | MC4.1 | 2,083 | MWH-060, MWH-004 | Portion of Meadow Creek that flows through a rock-lined channel around the lower half of the existing SODA. |
| | | MC4.2 | 208 | | Meadow Creek at the downstream end of the SODA where the channel passes through a relatively steep, constructed riffle/cascade. |
| | Hangar Flats Pit Lake (currently Meadow Creek) | HL1 | 552 | MWH-014, MWH-004 | Existing segment of Meadow Creek downstream of existing SODA that would be replaced during and after mining. |
| | | HL2 | 2,595 | | Existing segment of Meadow Creek from Keyway Marsh, downstream to approximately 2,500 feet upstream of its confluence with the EFSFSR. |
| | East Fork | BC0.1 | 6,274 | | This is the uppermost portion of EFMC upstream of the proposed |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | Meadow Creek | | | | restoration reach. |
| | | BC0.2 | 1,530 | | This is a non-perennial side channel of EFMC located in the lower (downstream) portion of the EFMC meadow. |
| | | BC1 | 2,010 | | Relatively low-gradient meadow area upstream of the historical dam failure site. |
| | | BC2 | 2,745 | | Middle reach of EFMC includes the steep, eroding channel destabilized initially by historical dam failure. |
| | | BC2.1 | 1,904 | | This reach is a transition from the steep, unstable, confined Reach BC2 upstream and the low gradient, sinuous, channel flowing on the valley bottom represented by Reach BC3. |
| | | BC3 | 660 | MWH-006 | Lower portion of EFMC flows across an alluvial fan prior to joining Meadow Creek. |
| | | BC4 | 186 | | Lowest portion of EFMC that would become part of the proposed Hangar Flats pit lake following mine operations. |
| | Upper Meadow Creek | MC0 | 1,235 | - | Three branches of upper Meadow Creek immediately upstream of the proposed Tailings Storage Facility (TSF) footprint. |
| | | MC1.1 | 4,407 | MWH-034 | Most southern branch of upper Meadow Creek downstream to its confluence with the next branch of Meadow Creek (MC1.2). |
| | | MC1.2 | 3,119 | | Middle (western) branch of upper Meadow Creek downstream to its confluence with the southern branch of Meadow Creek (MC1.1). |
| | | MC1.3 | 2,576 | | Most northern branch of upper Meadow Creek downstream to its confluence with the trunk stream of Meadow Creek (MC1.4). |
| | | MC1.4 | 3,405 | | Upper Meadow Creek formed by the confluence of MC1.1 and MC1.2 downstream to the confluence with MC1.3. |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | | MC1.5 | 2,516 | MWH-016 | Meadow Creek channel downstream of the confluence of the northern branch (MC1.3) and upstream of the meadow formed immediately upstream of the existing SODA. |
| | | MC2 | 1,117 | MWH-047, MWH-003 | Existing meadow section of Meadow Creek immediately upstream of SODA. |
| Reach 3: EFSFSR upstream of Meadow Creek | Upper EFSFSR | EF1 | 1,890 | MWH-13 | EFSFSR immediately upstream of the Meadow Creek confluence. |
| | Upper EFSFSR | EF0.01-EF0.21 | varies | MWH-013 | These multiple reaches of the Upper EFSFSR are upstream of the proposed mine impact area. |
| | Upper EFSFSR | EF1 | 1,918 | - | EFSFSR immediately upstream of its confluence with Meadow Creek. |
| Reach 4: EFSFSR downstream of Sugar Creek | Lower EFSFSR | None | NA | | |
| Reach 5: Headwaters EFSFSR Watershed | EFSFSR | All streams in Reaches 1 through4 combined. | | | |
| Reach 6: Waterways adjacent to Access Roads, Utilities, and Off-site Facilities | All stream crossings within each segment combined | TR1 | 844 | - | That portion of the route from the EFSFSR westward to the Johnson Creek Substation. |
| | | TR2 | 5,974 | - | That portion of the route from the Johnson Creek Substation generally south and west to the town of Cascade, ID. |
| | | TR2.1 | 2,311 | - | Portions of Trout Creek roughly in between Warm Lake and Johnson Creek immediately upstream of TR2.2. |
| | | TR2.2 | 718 | - | Portions of Trout Creek roughly between Warm Lake and Johnson Creek immediately downstream of TR2.1. |

| Mine Site Area Reaches | Stream FA Area | SFA Reach IDs and Descriptions | | | |
|---|---|---|---|---|---|
| | | Segment Name | Length (feet) | Relevant Stream Survey Sites | Description |
| | | TR2.3 | 398 | - | Portions of Johnson Creek immediately downstream of its confluence with Halfway Creek. |
| | | TR2.4 | 130 | - | Portions of Johnson Creek immediately downstream of its confluence with Burntlog Creek. |
| | | TR2.5 | 467 | - | Portions of Cabin Creek in between Warm Lake Creek and Johnson Creek. |
| | | TR2.6 | 220 | - | Portions of Cabin Creek immediately upstream of its confluence with Warm Lake Creek. |

Table Source: Rio ASE 2019

Table Notes:

Only perennial SFA stream reaches were included.

BC= Blowout Creek (East Fork Meadow Creek); EF = EFSFSR; FC= Fiddle Creek; GC= Garnet Creek; HC = Hennessy Creek; HL = Hangar Flats Lake; MC= Meadow Creek; MN = Midnight Creek; SODA = Spent Ore Disposal Area; WL = West End Lake. NA = not applicable.

**Table J1-9 Summary of Stream Functional Assessment Indicators, Elements, and Scoring Criteria**

| Indicator | Element | Rating | FA | FR | FUR |
|---|---|---|---|---|---|
| Water Quality | Chinook Salmon/Steelhead Water Temperature (°C Maximum 7-Day Average) | Migration | ≤13.9 | >14 ≤17.7 | >17.7 |
| | | Rearing | ≤13.9 | >14 ≤17.7 | >17.7 |
| | | Spawning | ≤13.9 | >14 ≤15.5 | >15.5 |
| | Bull Trout/Cutthroat Trout Water Temperature (°C Maximum 7-Day Average) | Rearing | ≤12 | >12 ≤15 | >15 |
| | | Spawning | ≤12 | >9 ≤10 | >10 |
| | Fine Sediment (%) | Granitic Basin | <12 | 12% to 18 | >18 |
| | | Non-Granitic Basin | < 3 | 3% to 6 | >6 |
| | Chemical Contaminants (# Exceeding Threshold) | | < 2 | 2 to 4 | >4 |
| Access | Physical Barriers Located Downstream | | No | Partial | Yes |
| Habitat Elements | Embeddedness (Free Matrix %) | Granitic Basin | ≥ 27 | 27% to 17 | <17 |
| | | Non-Granitic Basin | ≥ 54 | 54% to 43 | <43 |
| | Large Woody Debris | Pieces Per Mile | > 20 | >20 or <20 | <20 |
| | | Recruitment Potential | Yes | No or Yes | No |
| | Pool Frequency (% of optimal) | | ≥ 75 | 75% to 25 | <25 |
| | Pool Quality (Quality Pools/Optimal # Pools) | | >14.1 | 6.7 to 14.1 | <6.7 |
| | Off-Channel Habitat with Cover (# of Features) | | Many (>2) | Some (1-2) | None (0) |
| Channel Conditions and Dynamics | Width/Depth Ratio | | ≤ 10 | 10< ≥20 | >20 |
| | Streambank Condition (Stability) | Pfankuch 1975 Method | < 39 | 39 to 77 | >77 |
| | | Qualitative | CS or US | CU | UU |
| | Floodplain Connectivity | Entrenchment Ratio | > 2.2 | 2.2 to 1.4 | <1.4 |
| | | Qualitative | Slightly | Moderately | Entrenched |
| Flow and Hydrology | Change in Flow (%) | Peak or Base Discharge | < 10 | 10 to 20 | >20 |
| | | Timing | < 10 | 10 to 20 | >20 |

| Indicator | Element | Rating | FA | FR | FUR |
|---|---|---|---|---|---|
| | Change in Drainage Network (% Increase) | | < 15 | 15 to 25 | >25 |
| Watershed Conditions | Road Density and Location (combine either top 2 or bottom 2 rows) | Road Density (Feet/Mile) | < 0.7 | ≥0.7 to 1.7 | >1.7 |
| | | Density in RCA | 0.0 | ≤1.7 | >1.7 |
| | | Road Density (Feet/Mile) | < 0.7 | <.07 | ≥0.7 |
| | | Density in RCA | 0.0 | ≤1.7 | >1.7 |
| | Riparian Conservation Areas (% Intact) | | > 80 | 70 to 80 | <70 |
| | Disturbance History (Combine all three rows) | % Disturbed | ≤ 15 | ≤15 | >15 |
| | | In Landslide Areas | No | Yes or No | Yes |
| | | In RCA | No | Yes or No | Yes |
| Fish Filters | Occupancy Potential | Intrinsic Potential (Chinook Salmon and Steelhead) | High | Medium | Low |
| | | Occupancy Model (Bull Trout and Westslope Cutthroat Trout) | 100 to 90 | 90 to 33 | 33 to 0 |
| | Critical Habitat** | | Yes | | No |
| | Presence/ Absence** | | Yes | | No |

Table Source: Rio ASE 2019

Table Notes:

BT = Bull Trout Neg. = Negligible

CH = Chinook Salmon; ST = Steelhead Trout

CS = Covered and Stable

CU = Covered and Unstable US = Uncovered and Stable

FA = Functioning Appropriately UU = Uncovered and Unstable

FR = Functioning at Risk

FUR = Functioning at Unacceptable Risk

WCT = Westslope Cutthroat Trout

** Critical Habitat and Presence/Absence fish use elements are used as data filters and are populated with scores.

## Stream Reach 1: EFSFSR and Tributaries from Sugar Creek to Meadow Creek

**Table J1-10 Stream Reach 1 Matrix Existing (Baseline) Conditions**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not To Exceed 15°C | FR | The water temperature in this reach exceeds all four thresholds. |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FA | Desired condition currently exists. |
| Water Quality | Sediment | LRMP definition:<br><12% fines (< 0.85 millimeters [mm}) in gravel.<br>Surface fines (< 6 mm) < 20% | FUR | |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FUR | Entire EFSFSR listed under 303(d) (IDEQ 2017a). Sediment and metals are parameters of concern. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FUR | The high-gradient cascade on the EFSFSR just upstream of the Yellow Pine pit is a barrier to adult Chinook salmon (NMFS 2017), and may be a barrier to steelhead, but steelhead passage there may be flow dependent. There is currently no evidence that steelhead have recolonized the EFSFSR upstream since this barrier was formed by mining. In recent fish surveys and eDNA samples there has been no indication that native steelhead *O. mykiss* occurs naturally upstream of the barrier (MWH 2017).<br>About 1.7 miles upstream from the cascade is a concrete box culvert located where Stibnite Road (NFSR 50412) crosses the EFSFSR; the PNF classified this structure as a partial barrier (Forest Service 2005 *in* Rio ASE 2019).<br>At the mouth of Fiddle Creek there is a high-gradient section of stream followed by a culvert. The high stream gradient is a barrier to fish migration (HDR 2016; MWH 2017). |
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FA | Desired condition currently exists. |
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x39<br>5-10 x60<br>10-15 x48<br>15-20 x39<br>20-30 x23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x184<br>5-10x96<br>10-15 x70<br>15-20 x56<br>25-50 x26 | FUR | |
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FUR | |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Upper EFSFSR has experienced continual rerouting and diversions. Roaded RCAs have confined off-channel habitats (EFSFSR, Meadow Creek, Profile Creek, Sugar Creek, Quartz Creek). |
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | Wagoner and Burns (2001): FR<br>Perennial stream RCAs in the Upper EFSFSR 38% disturbed (Kuzis 1997), roads have substantially affected RCAs along EFSFSR, Profile, Sugar, and Quartz Creek, and Burns et al. (2005) and Kuzis (1997) document that the Bradley Pit isolates the upper EFSFSR from upstream fish migrations and that portions of this watershed have had extensive habitat modification and degradation. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FR | Stibnite Road (NFSR 50412) has reduced links to floodplain and wetlands. Severely reduced linkage to floodplains and wetlands due to impacted RCAs in Stibnite mining area (personal observation) (Forest Service 2010c).<br>EFSFSR Watershed Analysis (Kuzis 1997):<br>Meadow Creek and the EFSFSR experienced almost continual rerouting and diversion beginning in the early 1900s. |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | FA | Desired condition currently exists. |
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FA | Desired condition currently exists. |
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FUR | Total road density = 0.7 mi/sq. mi. RCA road density=2.2 mi/sq mi, many roads within RCAs (U.S. Forest Service 2010c). |
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FR | ECA ≈ 25%, (see Appendix D of U.S. Forest Service 2010c)<br>Disturbance is concentrated in RCAs (roads, mining) in upper watershed. Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs, have changed channel lengths in the Upper East Fork due to mining and RCA roads (personal observation) (Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FA | Desired condition currently exists. |
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FR | Adjacent road has affected EFSFSR, Quartz, Profile, and Sugar creeks' resiliency (personal observation) (Forest Service 2010c).<br>Disturbance from land management actions such as mining and roads (riparian) is not negligible or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area (personal observation) (Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | Forest Service (2012): Sediments and suitable habitat availability have been altered and may not return to pre-disturbance conditions within 5 years (see previous WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable or fluctuating in a downward trend for all listed species (57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs but habitats are fragmented (Burns et al. 2005). |

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Note: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Reach;

**Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat trout; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

## Stream Reach 2: Meadow Creek and EFMC

**Table J1-11 Stream Reach 2 Matrix Existing (Baseline) Conditions**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not To Exceed 15°C | FR | The water temperature in this reach exceeds all four thresholds. |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FR | The water temperature in this reach exceeds the threshold in lower Meadow Creek. |
| Water Quality | Sediment | LRMP definition:<br><12% fines (<0.85 mm) in gravel.<br>Surface fines (< 6mm) < 20% | FUR | Sediment is above the desired condition. |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FR | Entire EFSFSR listed under 303(d) (IDEQ 2017). Sediment and metals are parameters of concern. |

| Category | Pathway Indicators[1.3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FUR | A short section of Meadow Creek at the SODA may be a partial barrier at low flows because of shallow depths and 9 percent gradient (HDR 2016).<br>In East Fork Meadow Creek, there is section of high stream gradient that may have been a natural barrier before it was altered by mining activities. As noted in MWH (2017), a dam failure of a reservoir built on the upper East Fork Meadow Creek exacerbated stream conditions, creating unstable slopes along the stream. The East Fork Meadow Creek was originally a hanging valley; therefore, high stream gradients are natural for this location and may have limited fish passage prior to the dam or the failure of the dam. |
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FA | Desired condition currently exists. |
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches. in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | Desired condition currently exists. |
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x 39<br>5-10 x 60<br>10-15 x 48<br>15-20 x 39<br>20-30 x 23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x 184<br>5-10 x 96<br>10-15 x 70<br>15-20 x 56<br>25-50 x 26 | FR | |

| Category | Pathway Indicators[1.3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FUR | 0 >1 meter deep |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Roaded RCAs have confined off-channel habitats (includes Meadow Creek) (U.S. Forest Service 2010c). |
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | Wagoner and Burns (2001): FR<br>Perennial stream RCAs in the Upper EFSFSR 38% disturbed (Kuzis 1997), roads have substantially affected RCAs along EFSFSR, Profile, Sugar, and Quartz Creek, and Burns et al. (2005) and Kuzis (1997) document that the Bradley Pit isolates the Upper EFSFSR from upstream fish migrations, and that portions of this watershed have had extensive habitat modification and degradation. |
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FA | Lower Meadow Creek: 8<br>Upper Meadow Creek: 6 |
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Lower Meadow Creek: covered and stable<br>Upper Meadow Creek: uncovered and unstable |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FA | Desired condition currently exists. |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1.3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FA | Desired condition currently exists. |
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FUR | Total road density = 0.7 mi/sq. mi. RCA road density = 2.2 mi/sq. mi, many roads within RCAs (U.S. Forest Service 2010c). |
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FR | ECA ≈ 25%, (see Appendix D of U.S. Forest Service 2010c)<br>Disturbance is concentrated in RCAs (roads, mining) in upper watershed. Extensive channel rerouting and diversion beginning in the early 1900s and a high percentage of roads within RCAs have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1.3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FR | Disturbance from land management actions such as mining and roads (riparian) is not negligible or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area (personal observation) (Forest Service 2010c). |
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | U.S. Forest Service 2012: Sediments and suitable habitat availability have been altered and may not return to pre-disturbance conditions within 5 years (see above WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable, or fluctuating in a downward trend for all listed species (57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs, but habitats are fragmented (Burns et al. 2005). |

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Note: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Reach; **Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

## Stream Reach 3: EFSFSR Upstream of Meadow Creek

**Table J1-12 Stream Reach 3 Matrix Existing (Baseline) Conditions**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not To Exceed 15°C | FR | Water Temperature during incubation period exceeds threshold 54% of the time. |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FA | Desired condition currently exists. |
| Water Quality | Sediment | LRMP definition:<br><12% fines (<0.85 mm) in gravel.<br>Surface fines (< 6 mm) < 20% | FUR | |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FUR | |
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FUR | A single culvert located in a tributary of Fern Creek has been determined to be a complete barrier (PNF 2005). |
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | 26 pieces per mile with recruitment potential (Rio ASE 2019). |
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x 39<br>5-10 x 60<br>10-15 x 48<br>15-20 x 39<br>20-30 x 23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x 184<br>5-10 x 96<br>10-15 x 70<br>15-20 x 56<br>25-50 x 26 | FR | |
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FUR | |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Roaded RCAs have confined off-channel habitats (EFSFSR, Meadow Creek, Profile Creek, Sugar Creek, Quartz Creek) (U.S. Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | Subwatershed analysis: Wagoner and Burns (2001): FR Perennial stream RCAs in the Upper EFSFSR 38% disturbed (Kuzis 1997), roads have substantially affected RCAs along EFSFSR, Profile, Sugar, and Quartz Creek, and Burns et al. (2005) and Kuzis (1997) document that the Bradley Pit isolates the Upper EFSFSR from upstream fish migrations, and that portions of this watershed have had extensive habitat modification and degradation. |
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FR | EFSFSR Watershed Analysis (Kuzis 1997):<br>Meadow Creek and the EFSFSR experienced almost continual rerouting and diversion beginning in the early 1900s. |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | | Desired condition currently exists. |
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FA | Desired condition currently exists. |
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FA | Total road density = 0.7 mi/sq. mi. RCA road density=2.2 mi/sq mi, many roads within RCAs (U.S. Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FUR | ECA ≈ 25%, (see Appendix D of U.S. Forest Service 2010c).<br>Disturbance is concentrated in RCAs (roads, mining) in upper watershed. Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs, have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FR | Desired condition currently exists. |
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FA | Disturbance from land management actions such as mining and roads (riparian) is not negligible or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area (personal observation) (U.S.Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | U.S. Forest Service 2012: Sediments and suitable habitat availability have been altered, and may not return to pre-disturbance conditions within 5 years (see above WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable, or fluctuating in a downward trend for all listed species (57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs, but habitats are fragmented (Burns et al. 2005). |

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Note: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Reach; **Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

## Stream Reach 4: EFSFSR Downstream of Sugar Creek

There are no SFA reaches in this segment; information for the following table was obtained from the literature.

**Table J1-13 Stream Reach 4 Matrix Existing (Baseline) Conditions**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not To Exceed 15°C | FUR | No description |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FR | No description |
| Water Quality | Sediment | LRMP definition:<br><12% fines (<0.85 mm) in gravel.<br>Surface fines (< 6 mm) < 20% | FA | No description |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FR | Entire EFSFSR listed under 303(d) (IDEQ 2017). Sediment and metals are parameters of concern. |
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FA | Desired condition currently exists. |
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | Desired condition currently exists. |
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x 39<br>5-10 x 60<br>10-15 x 48<br>15-20 x 39<br>20-30 x 23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x 184<br>5-10 x 96<br>10-15 x 70<br>15-20 x 56<br>25-50 x 26 | FA | Desired condition currently exists. |
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FA | Desired condition currently exists. |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | No description |
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FR | No description |
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FR | EFSFSR Watershed Analysis (Kuzis 1997):<br>Meadow Creek and the EFSFSR experienced almost continual rerouting and diversion beginning in the early 1900s. |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | FR | Roads, the Yellow Pine pit, and other historical diversions in the Stibnite Mining Area have affected flow timing in the Upper EFSFSR, Profile Creek, and along the mainstem EFSFSR (U.S. Forest Service 2010c).<br>EFSFSR Watershed Analysis (Kuzis 1997):<br>"In general, water flow volume and peak flow conditions have been little affected…" |
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FUR | Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FR | Total road density = 0.7 mi/sq. mi. RCA road density=2.2 mi/sq mi, many roads within RCAs (U.S. Forest Service 2010c). |
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FUR | ECA ≈ 25%, (see Appendix D of U.S. Forest Service 2010c)<br>Disturbance is concentrated in RCAs (roads, mining) in upper watershed. Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs, have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FR | Roads along EFSFSR, Sugar, Profile and Quartz creeks, and mining in the upper watershed have affected RCA function (personal observation) (U.S. Forest Service 2010c).<br>RCAs observed to be 62% intact for upper EFSFSR (Kuzis 1997). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FR | Disturbance from land management actions such as mining and roads (riparian) is not negligible or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area (personal observation) (U.S. Forest Service 2010c). |
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | U.S. Forest Service 2012: Sediments and suitable habitat availability have been altered and may not return to pre-disturbance conditions within 5 years (see above WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable, or fluctuating in a downward trend for all listed species (57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs but habitats are fragmented (Burns et al. 2005). |

Table Source: Rio ASE(2019) and as cited in table.

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Nnote: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Reach; **Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

## Stream Reach 5: Headwaters EFSFSR Subwatershed

**Table J1-14 Stream Reach 5 Matrix Existing (Baseline) Condition**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not ToExceed 15°C | FR | No description |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FR | No description |
| Water Quality | Sediment | LRMP definition:<br><12% fines (<0.85 mm) in gravel.<br>Surface fines (< 6 mm) < 20% | FUR | |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FUR | Entire EFSFSR listed under 303(d) (IDEQ 2017). Sediment and metals are parameters of concern. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FUR | The high-gradient cascade on the EFSFSR just upstream of the Yellow Pine pit is a barrier to adult Chinook (NMFS 2017), and may be a barrier to steelhead, but steelhead passage there may be flow-dependent. There is currently no evidence that steelhead have recolonized the EFSFSR upstream, since this barrier was formed by mining. In recent fish surveys and eDNA samples there has been no indication that native steelhead occurs naturally upstream of the barrier (MWH 2017).<br>About 1.7 miles upstream from the cascade is a concrete box culvert located where Stibnite Road (NFSR 50412) crosses the EFSFSR; the PNF classified this structure as a partial barrier (PNF 2005 *in* Rio ASE 2019).<br>At the mouth of Fiddle Creek, there is a high-gradient section of stream followed by a culvert. The high stream gradient is a barrier to fish migration (HDR 2016; MWH 2017). |
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FA | Desired condition currently exists. |
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x 39<br>5-10 x 60<br>10-15 x 48<br>15-20 x 39<br>20-30 x 23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x 184<br>5-10x 96<br>10-15 x 70<br>15-20 x 56<br>25-50 x 26 | FR | No description |
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FUR | Reaches have few large pools or inadequate cover/water temperature (see water temperature and RCA WCIs) (Kuzis 1997) |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Roaded RCAs have confined off-channel habitats (EFSFSR, Meadow Creek, Profile Creek, Sugar Creek, Quartz Creek) (U.S. Forest Service 2010c). |
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | Wagoner and Burns (2001): FR<br>Perennial stream RCAs in the Upper EFSFSR 38% disturbed (Kuzis 1997), roads have substantially affected RCAs along EFSFSR, Profile, Sugar, and Quartz Creek, and Burns et al. (2005) and Kuzis (1997) document that the Bradley Pit isolates the Upper EFSFSR from upstream fish migrations, and that portions of this watershed have had extensive habitat modification and degradation. |
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FA | Desired condition currently exists. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Desired condition currently exists. |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FR | Stibnite Road (NFSR 50412) has reduced links to floodplain and wetlands. Severely reduced linkage to floodplains and wetlands due to impacted RCAs in Stibnite mining area (personal observation) (U.S. Forest Service 2010c).<br>EFSFSR Watershed Analysis (Kuzis 1997):<br>Meadow Creek and the EFSFSR experienced almost continual rerouting and diversion beginning in the early 1900s. |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | FA | Desired condition currently exists. |
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FA | Desired condition currently exists. |
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FUR | Total road density = 0.7 mi/sq. mi. RCA road density=2.2 mi/sq mi, many roads within RCAs (U.S. Forest Service 2010c). |
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FR | ECA ≈ 25%, (see Appendix D of U.S. Forest Service 2010c)<br>Disturbance is concentrated in RCAs (roads, mining) in upper watershed. Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs, have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FA | Desired condition currently exists. |
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FR | Disturbance from land management actions such as mining and roads (riparian) is not negligible or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area (personal observation) (U.S. Forest Service 2010c). |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | Sediments and suitable habitat availability have been altered, and may not return to pre-disturbance conditions within 5 years (see previous WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable, or fluctuating in a downward trend for all listed species<br>(57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs but habitats are fragmented (Burns et al. 2005). |

Table Source: Rio ASE (2029) and as cited in table.

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Note: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Subwatershed; **Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

## Stream Reach 6: Sugar Creek upstream of the EFSFSR

**Table J1-15 Stream Reach 6 Matrix Existing (Baseline) Condition**

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Water Quality | Water Temperature | 7-day average maximum °C<br>Bull trout:<br>Incubation (September-March): 2-5°C<br>Rearing (year-round): 4-12°C<br>Spawning (September): 4-9°C<br>Migration (June-September): Not To Exceed 15°C | FUR | MWH 2017 documents exceedances. |
| Water Quality | Water Temperature | 7-day average maximum °C<br>Chinook salmon/steelhead: Spawning, rearing, and migration: 10-13.9°C. As directed by the NOAA BO on the LRMP (NMFS 2003), these default WCI values are being revised to appropriate values for this subbasin based on the best available data on functioning habitat conditions for ESA-listed fish within the subbasin. | FR | MWH 2017 documents exceedances. |
| Water Quality | Sediment | LRMP definition:<br><12% fines (<0.85 mm) in gravel.<br>Surface fines (<6 mm) < 20% | FR | At 14 %, the Sugar Creek subwatershed is the only other area where management practices have increased sediment levels more than 10% over background (Kuzis 1997). |
| Water Quality | Chemical Contaminants/ Nutrients | Low levels of chemical contamination from agricultural, industrial, and other sources; no excess nutrients, no 303(d) water quality limited water bodies. | FR | Several positive detects occur in Sugar Creek which is downstream from the Cinnabar Mine area where mercury was historically mined (Kuzis 1997). Mercury concentrations in macroinvertebrates were substantially elevated in Sugar Creek (MWH 2017). |
| Habitat Access | Physical Barriers | Any man-made barriers present in watershed allow upstream and downstream fish passage at all flows. | FA | No barriers noted in MWH 2017. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Substrate Embeddedness | LRMP definition:<br>Dominant substrate is gravel or cobble, or embeddedness is <20% | FR | Nelson et al. 2006 describe the EFSFSR sampling sites as follows: "we would classify only the Tamarack Creek site as FA, with FR classifications applied to E050 and the two Sugar Creek sites and FUR classifications for the two mainstem EFSFSR sites (free matrix)." |
| Habitat Elements | Large Woody Debris | >20 pieces per mile, >12 inches in diameter, >35 feet in length, and adequate sources of large woody debris for both long and short-term recruitment. | FA | 107 pieces/mile (MWH 2017). |
| Habitat Elements | Pool Frequency | Bull trout:<br>Wetted Width (ft) x Number of Pools/Mile<br>0-5 x 39<br>5-10 x 60<br>10-15 x 48<br>15-20 x 39<br>20-30 x 23<br>Chinook salmon/steelhead:<br>Channel Width (ft) x Number of Pools/Mile<br>5 x 184<br>5-10 x 96<br>10-15 x 70<br>15-20 x 56<br>25-50 x 26 | FA | MWH (2017) |
| Habitat Elements | Pool Quality | Each reach has many large pools >3.28 feet (1 meter) deep. Pools have good cover and cool water, and only minor reduction of pool volume by sediment. | FR | MWH (2017) |
| Habitat Elements | Off-Channel Habitat | Watershed has many ponds, oxbows, backwaters, and other off-channel areas with cover; side channels are low energy areas. | FR | Upper EFSFSR has experienced continual rerouting and diversions. Roaded RCAs have confined off-channel habitats (EFSFSR, Meadow Creek, Profile Creek, Sugar Creek, Quartz Creek) |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Habitat Elements | Refugia | Bull trout - Habitats capable of supporting strong and significant local populations are protected and are well distributed and connected for all life stages and forms of the species.<br>Chinook salmon/steelhead - Habitat refugia exist and are adequately buffered (e.g., by intact RCAs); existing refugia are sufficient in size, number, and connectivity to maintain viable populations. | FR | Perennial stream RCAs in the Upper EFSFSR 38% disturbed (Kuzis 1997), roads have substantially affected RCAs along EFSFSR, Profile, Sugar, and Quartz creeks, and Burns et al. (2005) |
| Channel Condition and Dynamics | Width/Depth Ratio | ≤ 10 | FR | W/D ratio 34.6-46.1 (MWH 2017). |
| Channel Condition and Dynamics | Streambank Condition | >90% of any stream reach has stable banks relative to the percent of inherent stable streambanks associated with a similar unmanaged stream system. | FA | Covered and stable (MWH 2017) |
| Channel Condition and Dynamics | Floodplain Connectivity | Within RCAs, floodplains and wetlands are hydrologically linked to the main channel; overbank flows occur and maintain wetland/floodplain functions; and riparian vegetation succession. | FR | Roads along EFSFSR, Sugar, Profile and Quartz creeks, and mining in the upper watershed, have affected RCA function (Kuzis 1997) |
| Flow/Hydrology | Change in Peak/Base Flows | Watershed hydrograph indicates peak flow, base flow, and flow timing characteristics comparable to an undisturbed watershed of a similar size, geomorphology and climatology. | FA | In general, surface water flows in the analysis area exhibit the typical annual hydrograph<br>for a forested northern mountain region, with the accumulated winter snowpack melting in<br>the late spring to produce the high flow period for the year. (Kuzis 1997) |
| Flow/Hydrology | Drainage Network Increase | Zero or minimum change in active channel length correlated with human caused disturbance. | FR | Extensive channel rerouting and diversion beginning in the early 1900s, and a high percentage of roads within RCAs have changed channel lengths in the Upper EFSFSR due to mining and RCA roads (personal observation) (U.S. Forest Service 2010c). |
| Watershed Conditions | Road Density and Location | Total road density <0.7 miles/square mile of subwatershed, no road within RCAs. | FR | Road density is 0.46, (MWH 2017), but Sugar Creek Road is within the RCA. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| Watershed Conditions | Disturbance History | <15% ECA (entire watershed) with no concentration of disturbance in areas with landslide or landslide prone areas, and/or refugia, and/or RCAs. | FUR | Historical mining activities have significantly altered the upper EFSF and Sugar Creek (Kuzis 1997) |
| Watershed Conditions | Riparian Conservation Areas | The riparian conservation areas within the subwatershed(s) have historic and occupied refugia for listed, sensitive or native/desired nonnative fish species which are present and provide: adequate shade, large woody debris recruitment, sediment buffering, connectivity, and habitat protection and connectivity to adequately minimize adverse effects from land management activities (>80% intact).<br>All vegetative components are within desired conditions identified in Appendix A of the Forest Plan. RCA functions and processes are intact, providing resiliency from adverse effects associated with land management activities. | FUR | Roads along EFSFSR, Sugar, Profile and Quartz creeks, and mining in the upper watershed, have affected RCA function (Kuzis 1997) |
| Watershed Conditions | Disturbance Regime | Disturbance resulting from land management activities are negligible or temporary. Streamflow regimes are appropriate to the local geomorphology, potential vegetation and climatology resulting in appropriate high quality habitat and watershed complexity that provide refugia and rearing space for all life stages or multiple life-history forms.<br>Ecological processes are within historical ranges. Resiliency of habitat to recover from land management disturbances is high. | FR | Adjacent road has affected EFSFSR, Quartz, Profile, and Sugar creeks' resiliency (personal observation).<br>Disturbance from land management actions such as mining and roads (riparian) is not insignificant or temporary. Resiliency of habitat to recover from land management disturbances is moderate throughout most of the analysis area, but low in the Stibnite area. |

| Category | Pathway Indicators[1,3] | Desired Condition | Baseline[2] | Existing Condition |
|---|---|---|---|---|
| | Integration of Species and Habitat Conditions | Bull trout - Habitat quality and connectivity among subpopulations is high. Disturbance has not altered channel equilibrium. Fine sediments and other habitat characteristics influencing survival and growth are consistent with the desired conditions for the habitat.<br>The subpopulation has the resilience to recover from short-term disturbance within one to two generations (5-10 years). The subpopulation is fluctuating around an equilibrium or is growing. | FR | U.S. Forest Service 2012: Sediments and suitable habitat availability have been altered, and may not return to pre-disturbance conditions within 5 years (see above WCIs and personal observation). Survival and growth rates for bull trout are reduced (see population character WCIs and Burns et al. 2005). Local populations are stable, or fluctuating in a downward trend for all listed species (57FR14653, 60FR43937, 63FR31647). Connectivity among local populations occurs, but habitats are fragmented (Burns et al. 2005). |

Table Source: Rio ASE (2019) and as cited in table.

Table Notes:

1 Matrix checklist adapted from USFWS and NMFS 1998.

2 FA = Functioning Appropriately, FR = Functioning at Risk, FUR = Functioning at Unacceptable Risk, N = Not Applicable. Note: "" in Baseline discussion indicates actual data were used as the primary source of Baseline assessment, otherwise reflects a professional estimate of condition.

3 Evaluated against local criteria where appropriate and available.

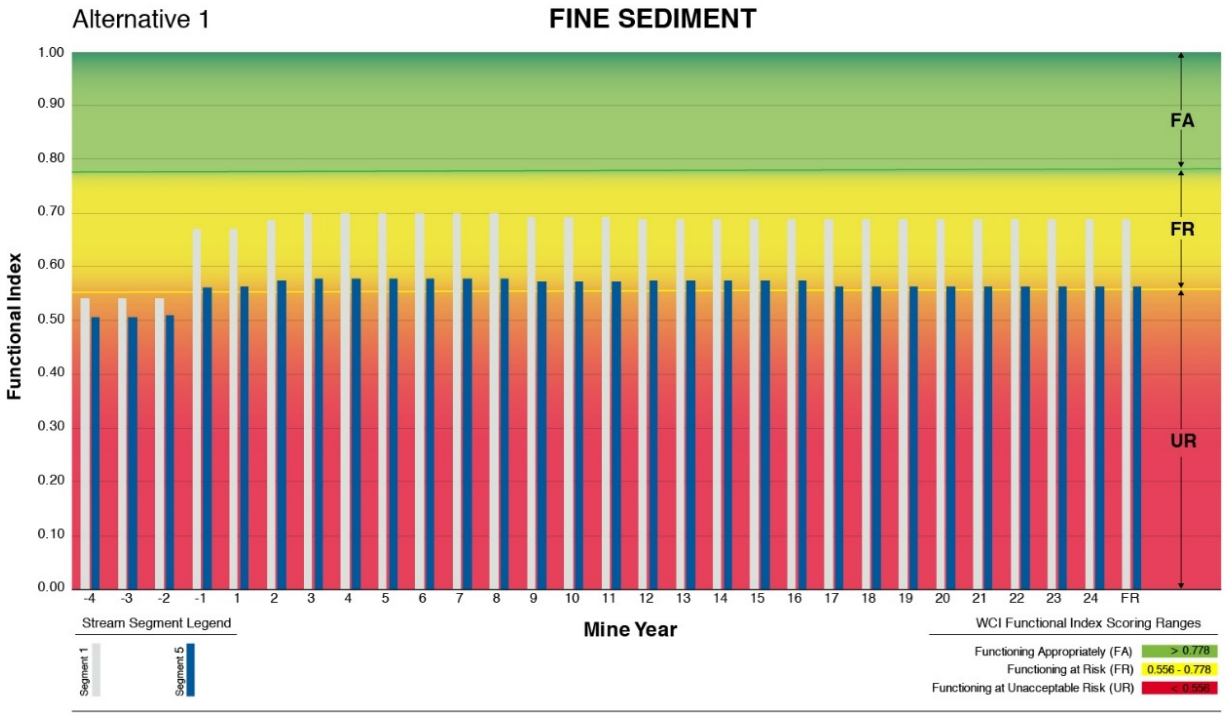
**Agency/Unit:** PNF Krassel Ranger District; **HU Code and Name:** 17060208-02 Upper East Fork South Fork Salmon River; **Spatial Scale of Matrix:** Subwatershed; **Fish Species Present:** Chinook salmon, steelhead, bull trout, cutthroat; **Anadromous Species Population:** South Fork Salmon River; **Subpopulation:** East Fork South Fork Salmon River analysis area; **(Bull trout) Core Area:** South Fork Salmon River; **Local Population:** South Fork Salmon River; **Management Action(s):** Stibnite Gold Project.

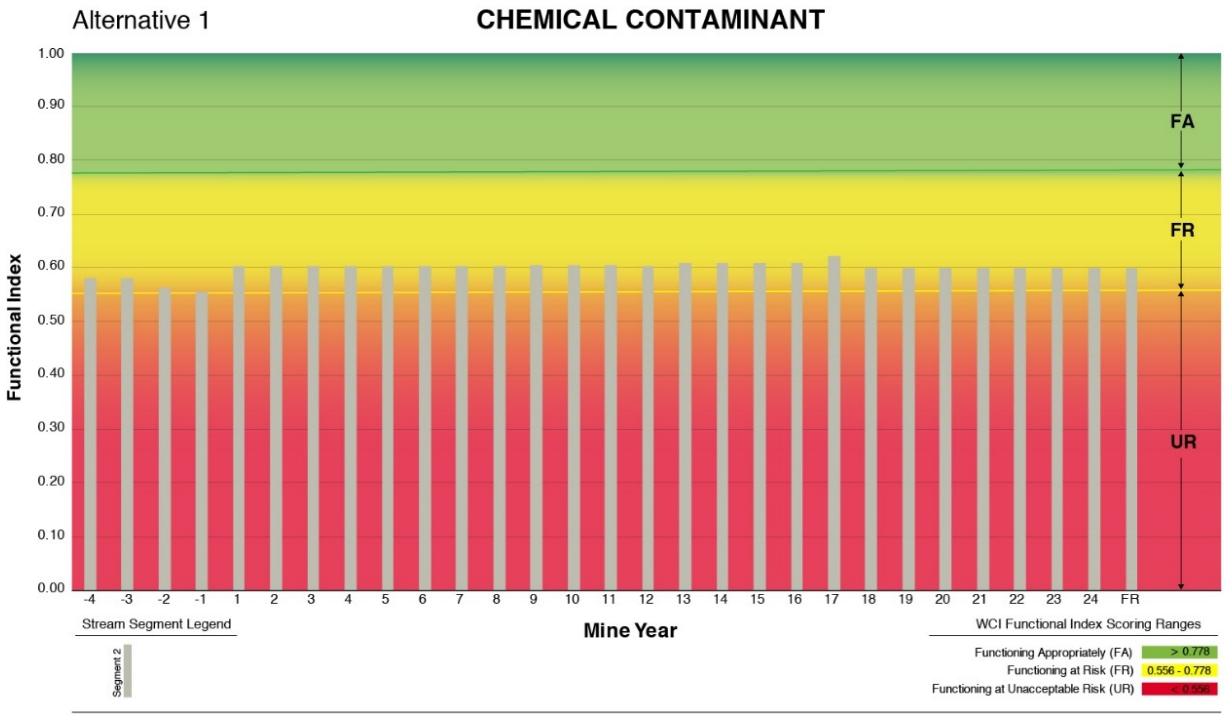
# J.4 CHANGES IN WATERSHED CONDITION INDICATORS

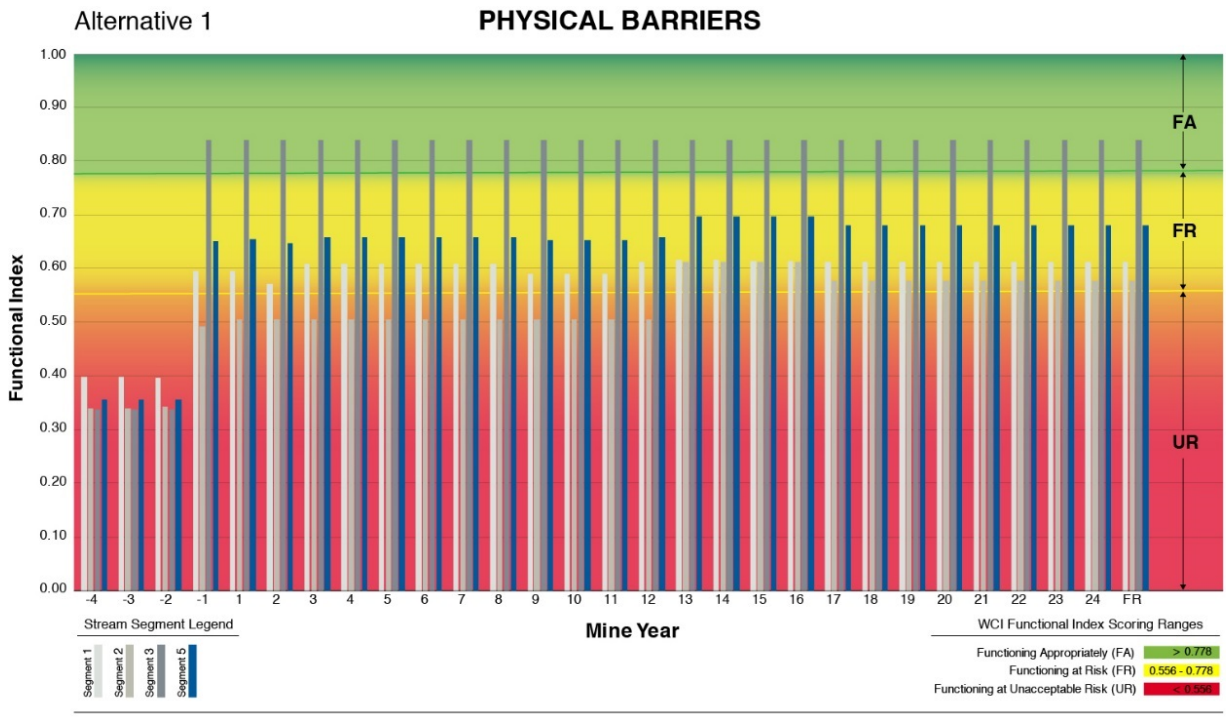
The additional information provided herein supports Section 4.12.2.3.3, Habitat Elements/Watershed Condition Indicators. Alternative 4 is not presented herein because the results are identical to Alternative 1.

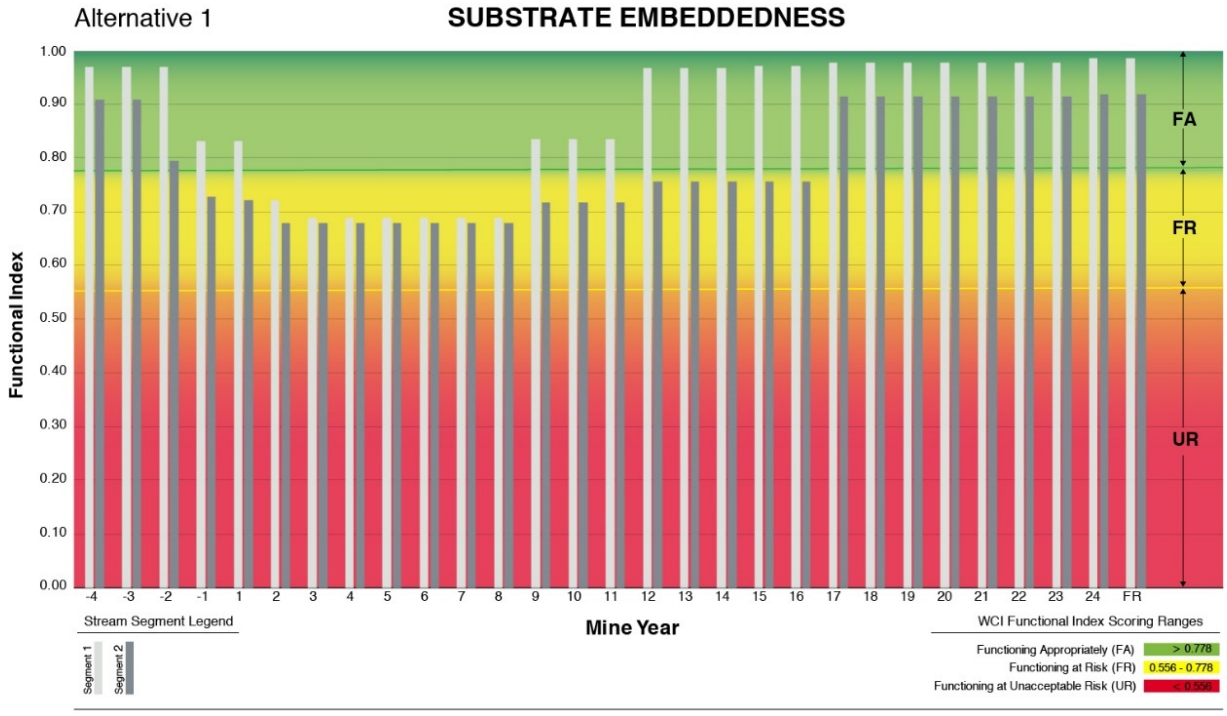
This section consists of graphs displaying how the WCIs that would be affected by the SGP would change over the life of the SGP. Note that the WCIs displayed here are only those not analyzed in detail in the EIS, and those that would change as a result of the SGP. The graphs are organized by action alternative.

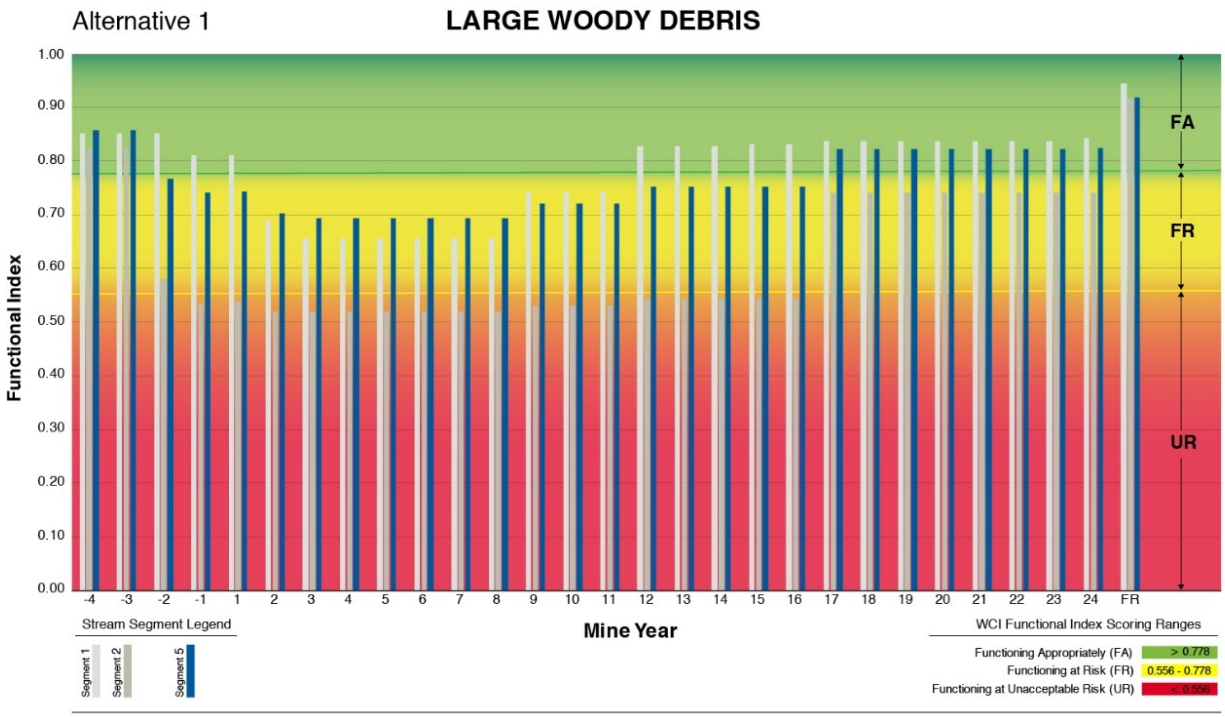
# J.4.1 ALTERNATIVE 1

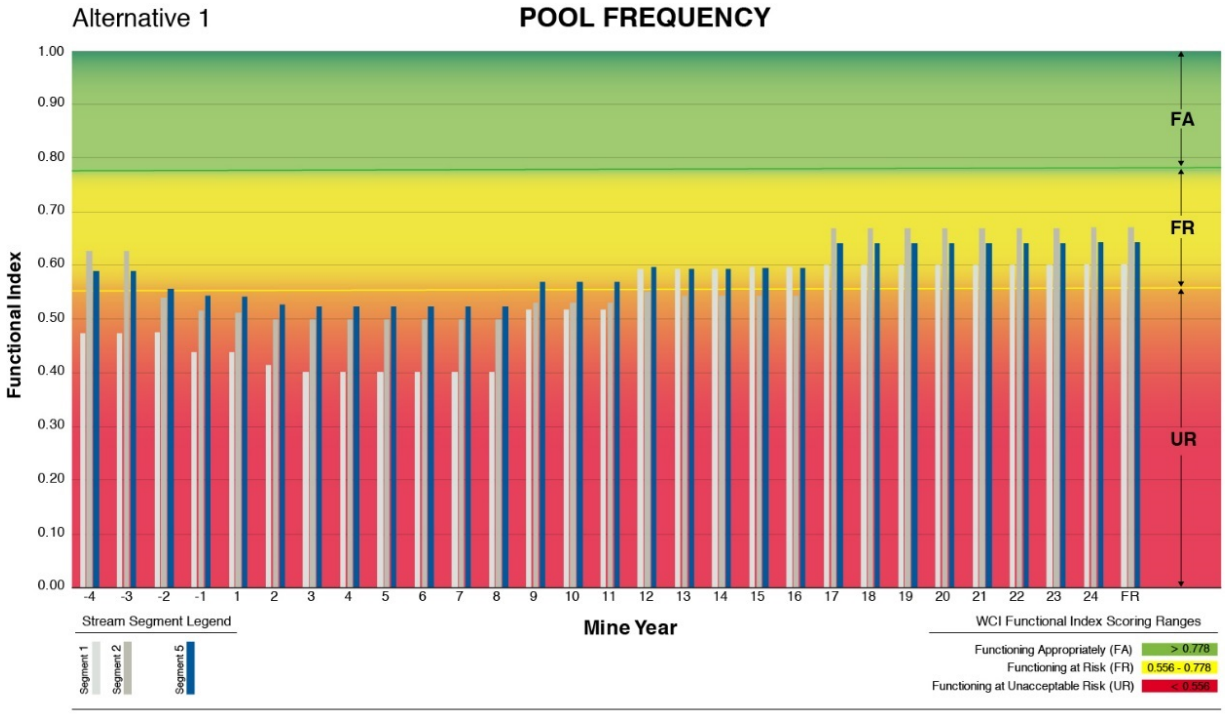


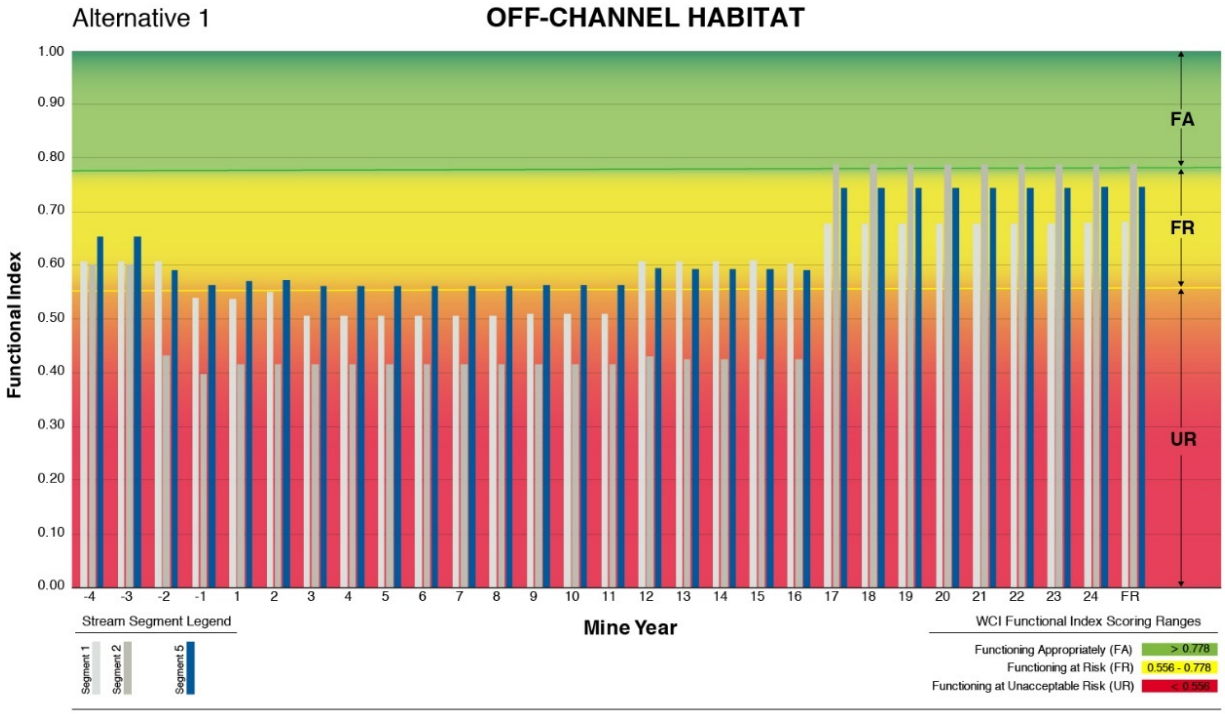



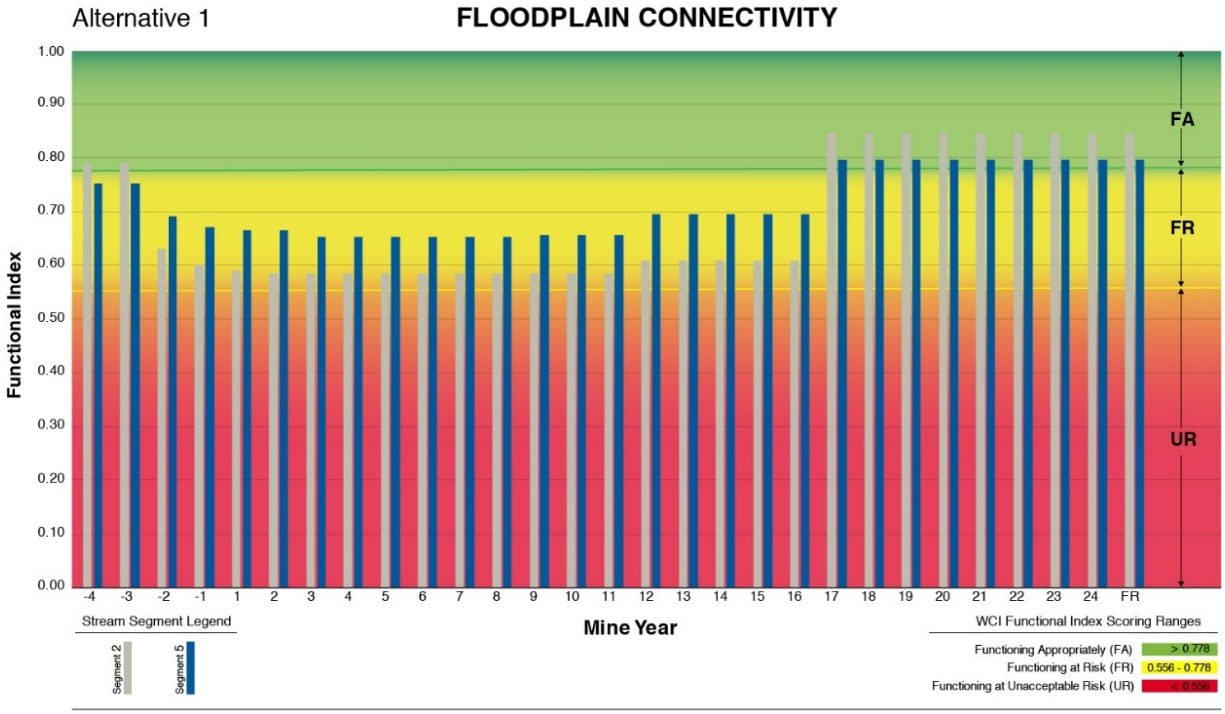

Alternative 1
PHYSICAL BARRIERS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

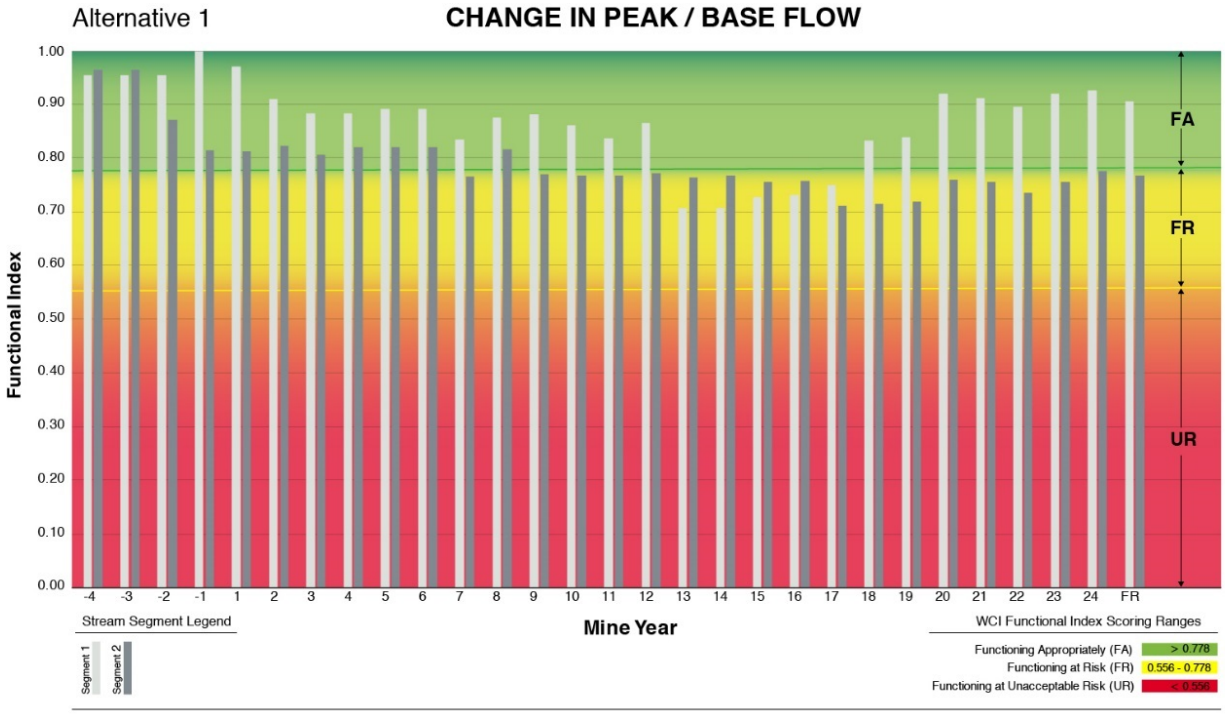

Alternative 1
SUBSTRATE EMBEDDEDNESS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

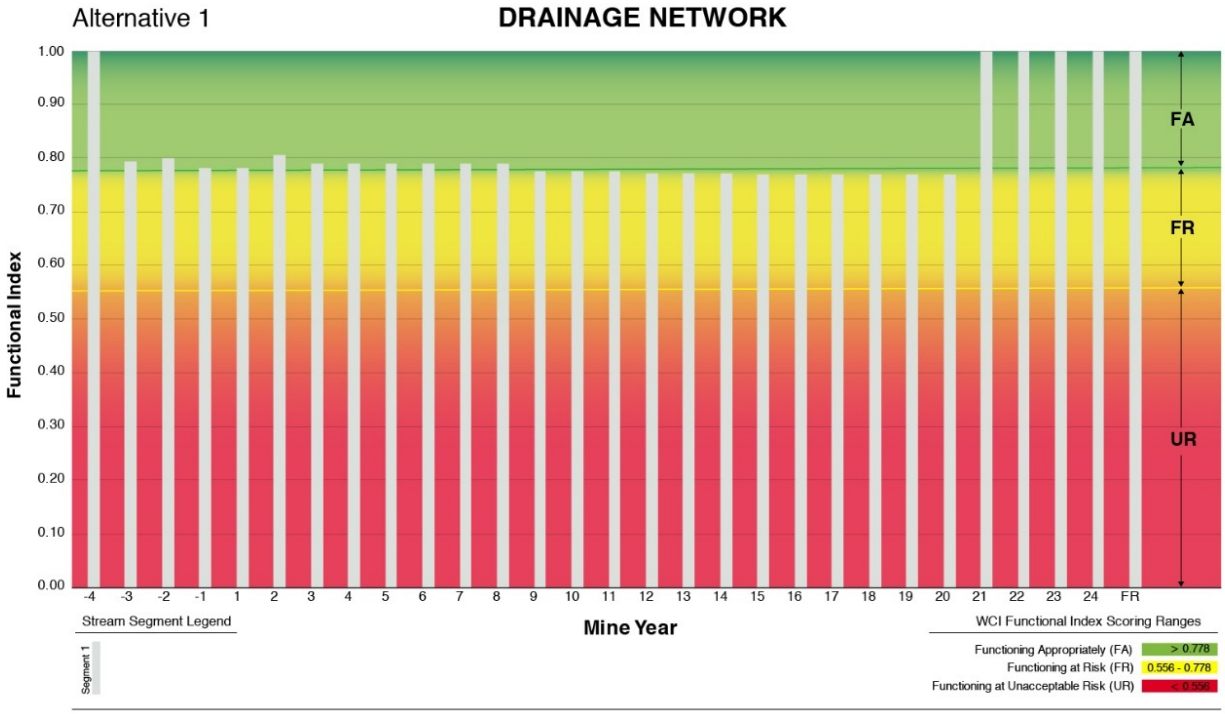

Alternative 1
LARGE WOODY DEBRIS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

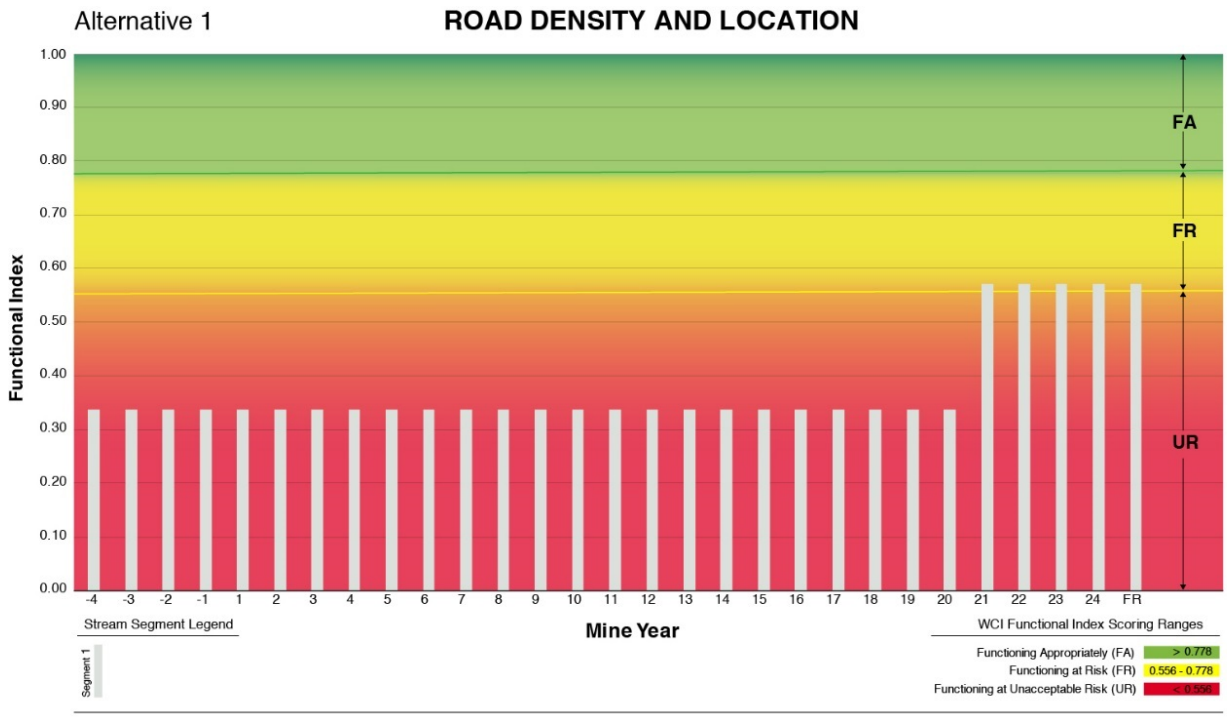

Alternative 1
POOL FREQUENCY
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

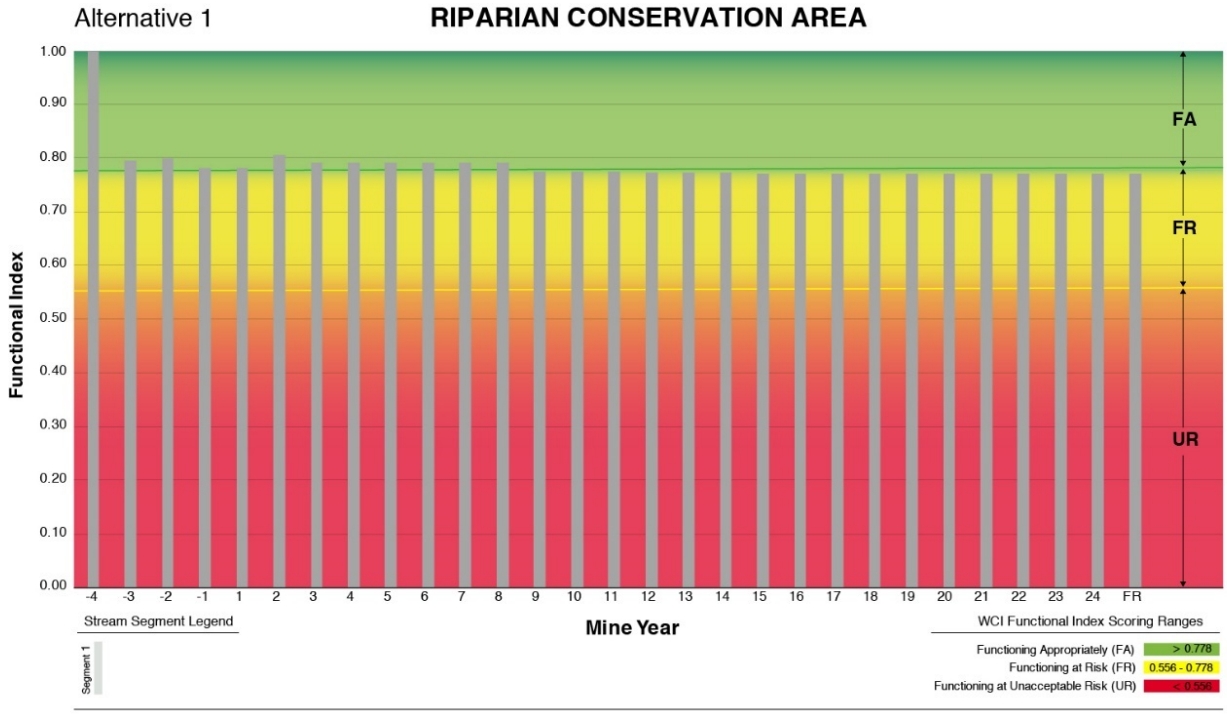

Alternative 1
OFF-CHANNEL HABITAT
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 1
FLOODPLAIN CONNECTIVITY
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

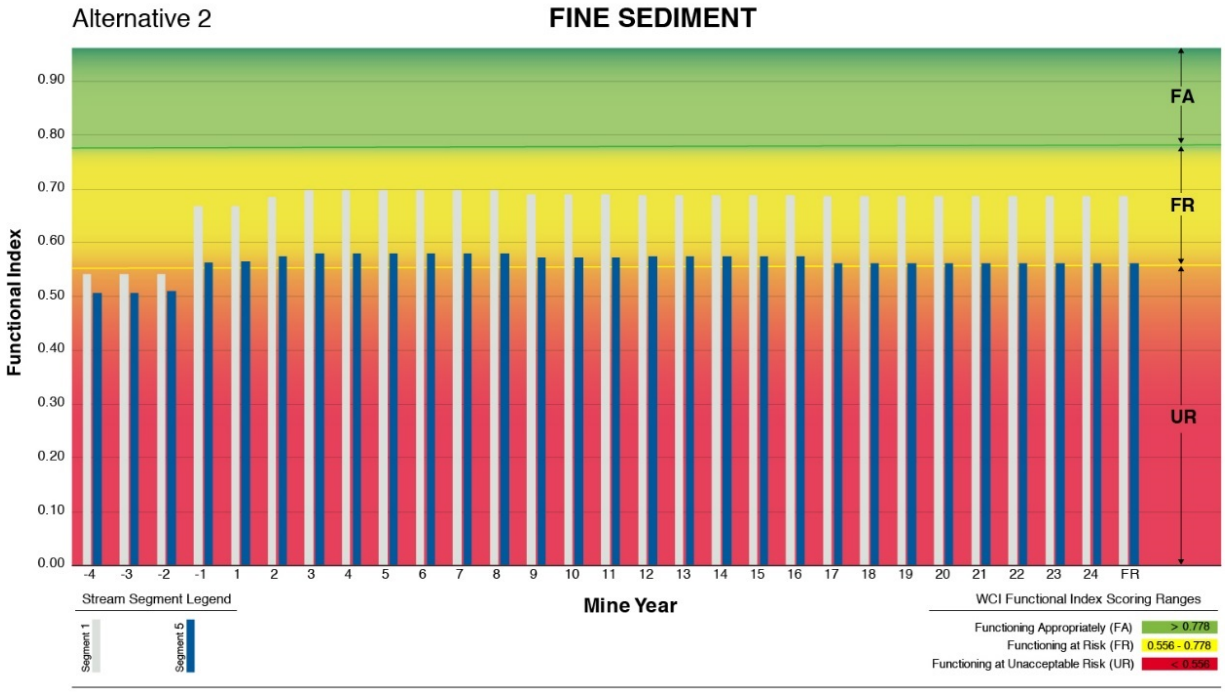

Alternative 1
CHANGE IN PEAK / BASE FLOW
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

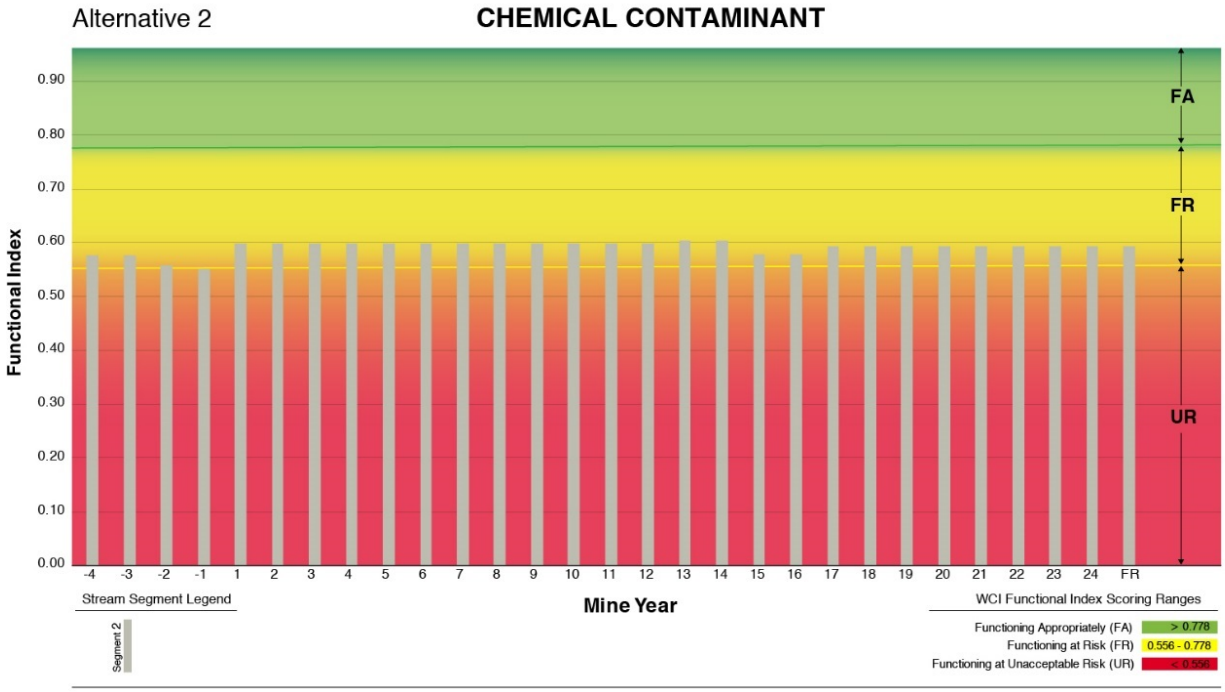

Alternative 1
DRAINAGE NETWORK
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

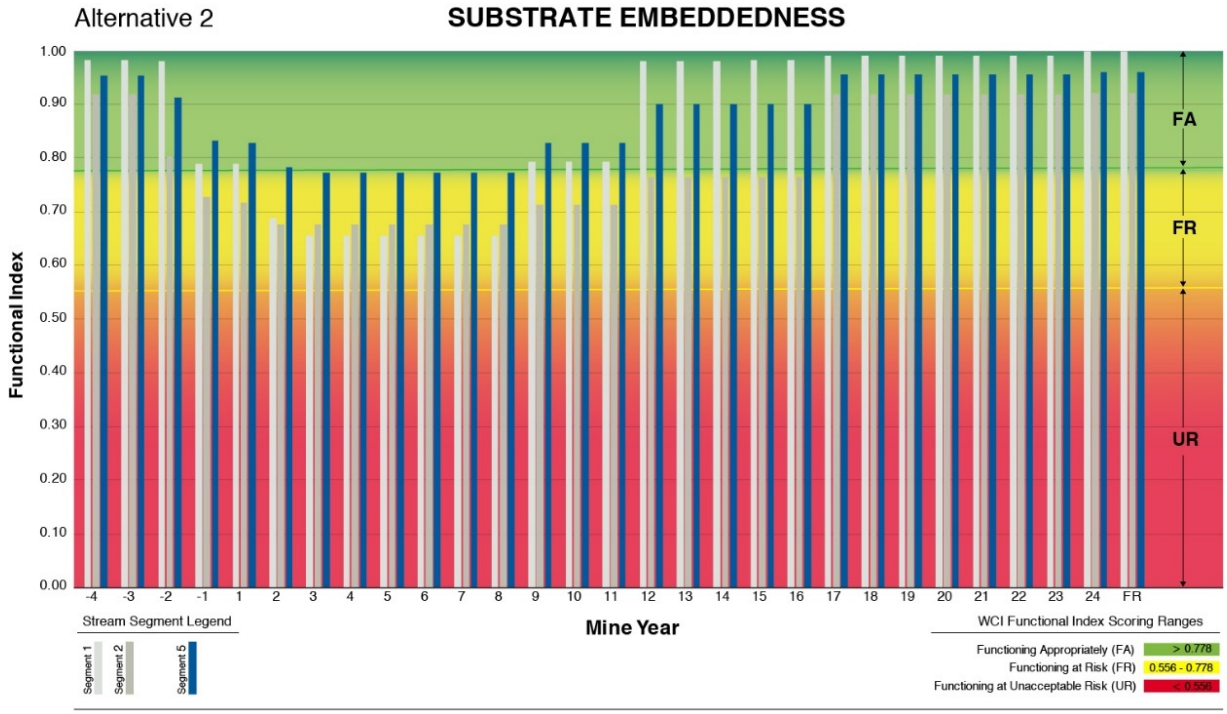

Alternative 1
ROAD DENSITY AND LOCATION
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

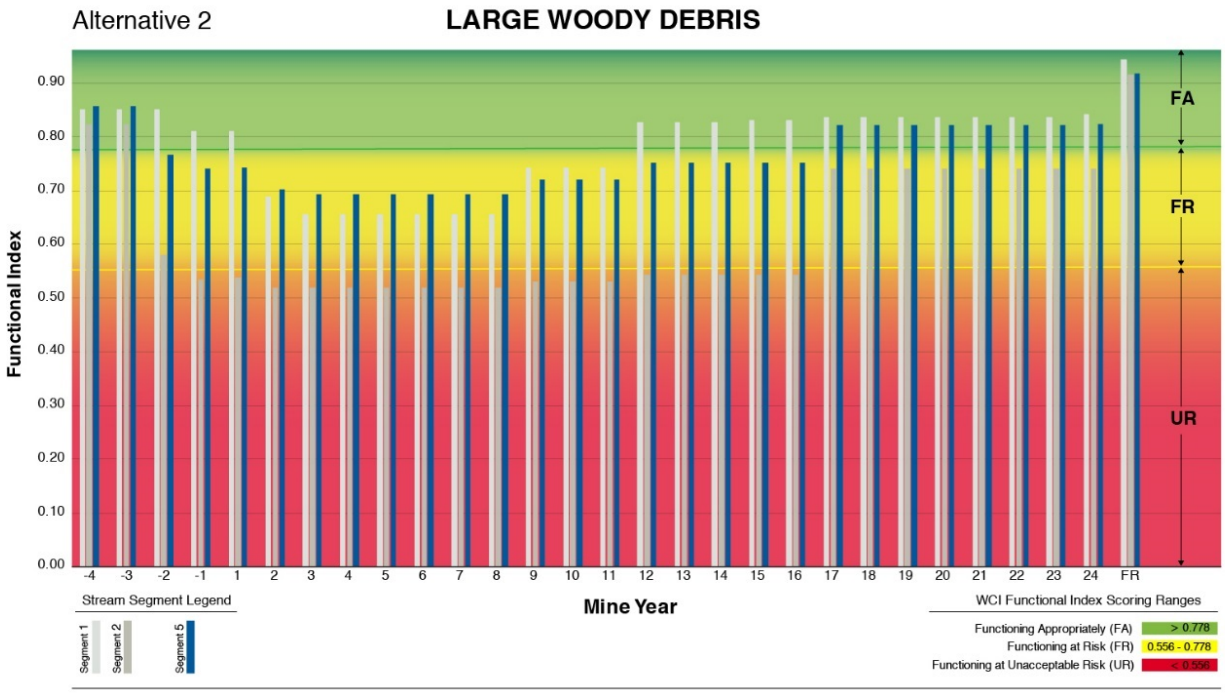

Alternative 1
RIPARIAN CONSERVATION AREA
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

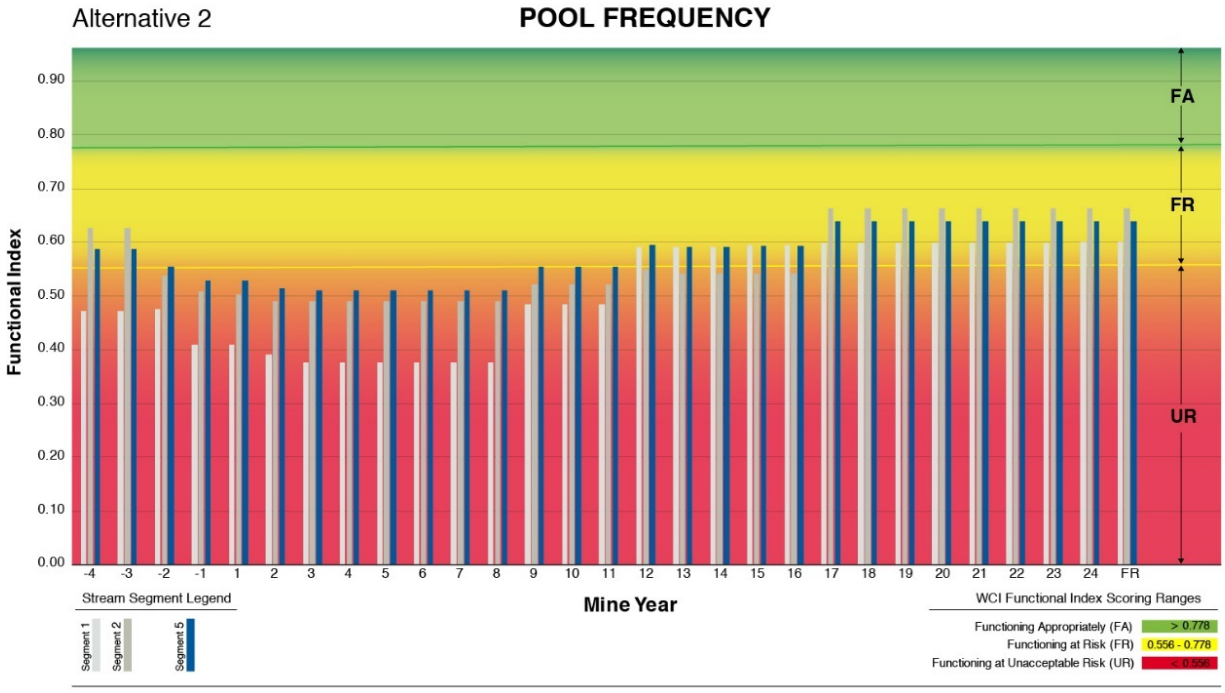
## J.4.2 ALTERNATIVE 2



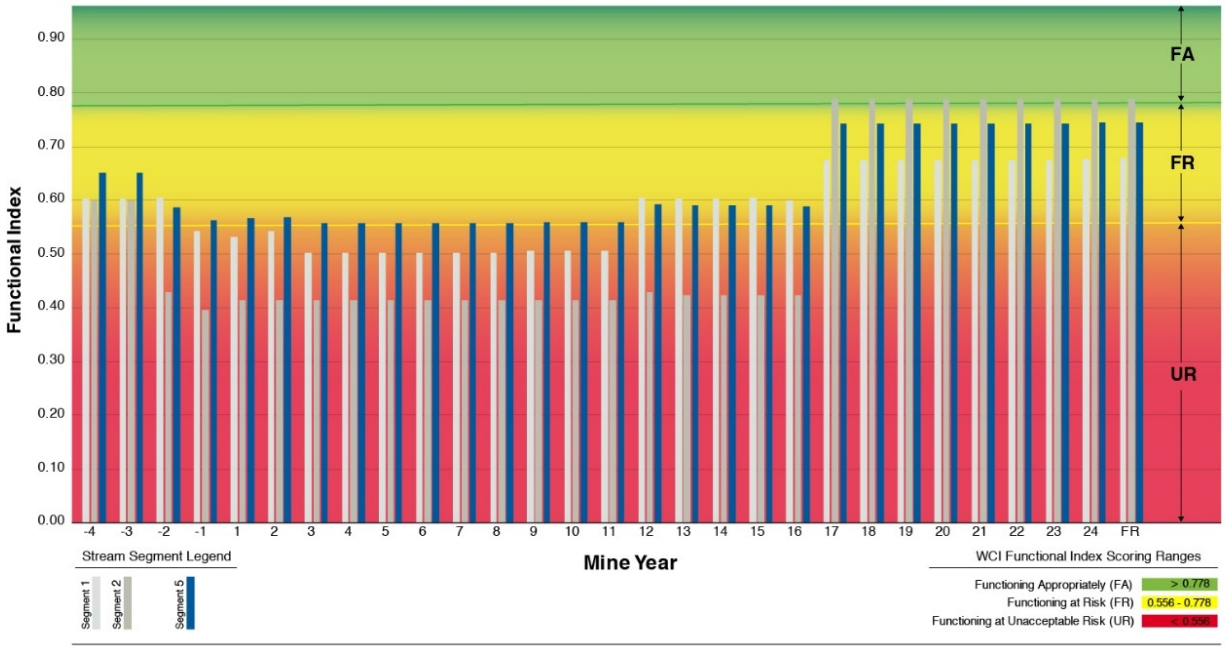

Alternative 2
SUBSTRATE EMBEDDEDNESS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 2
LARGE WOODY DEBRIS
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 2
POOL FREQUENCY
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

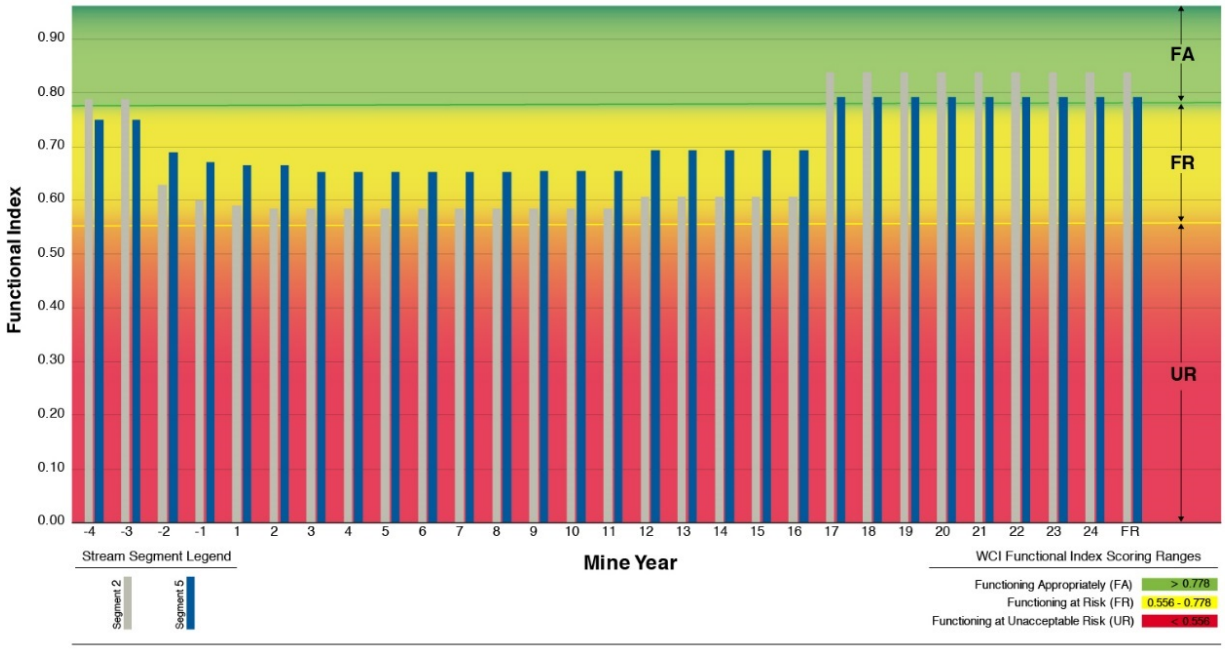
Alternative 2

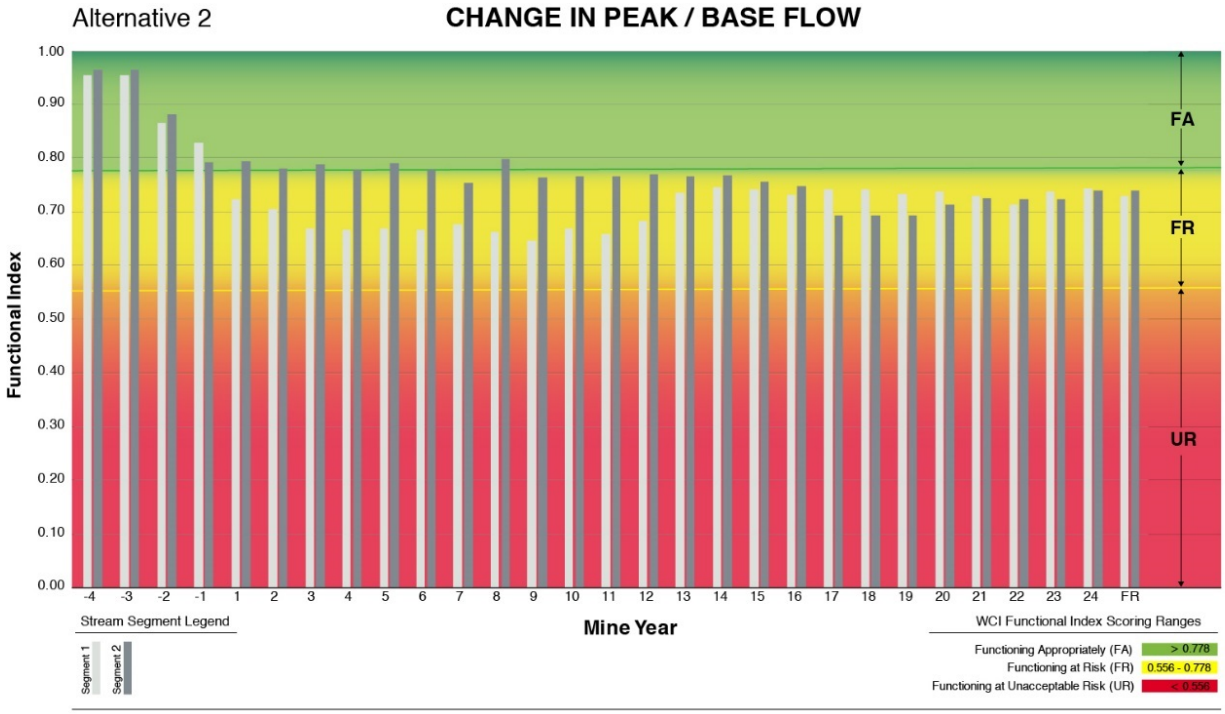
**OFF-CHANNEL HABITAT**

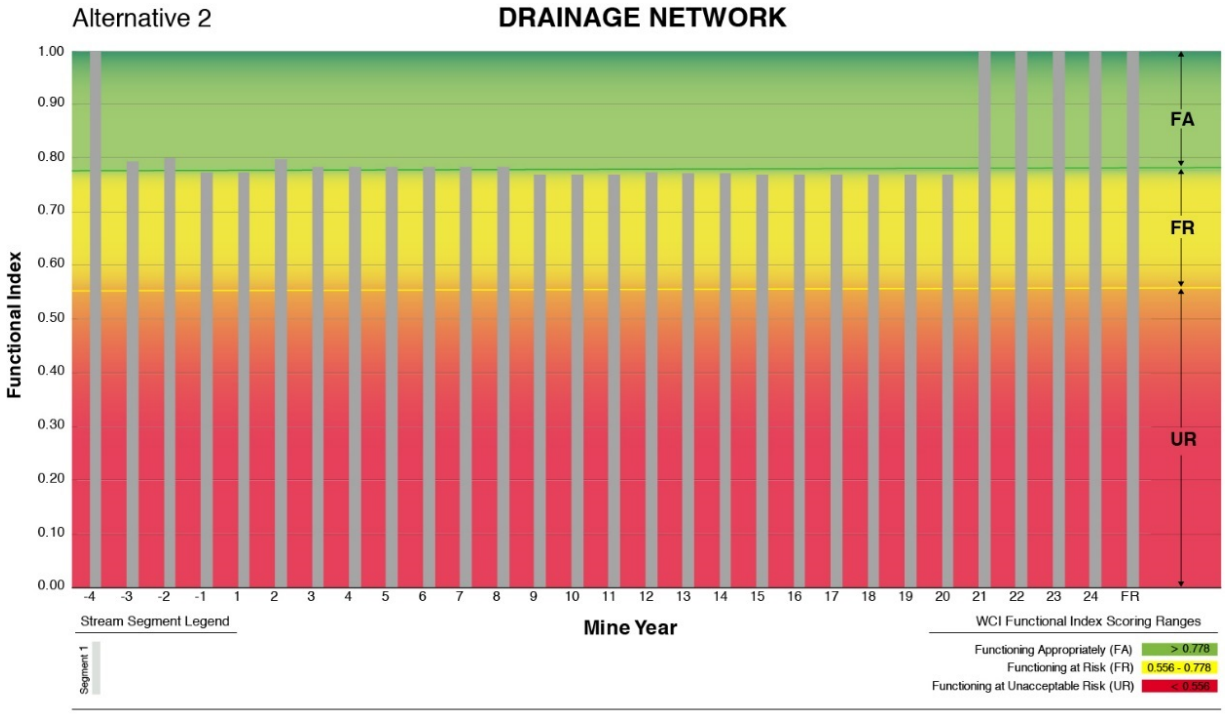


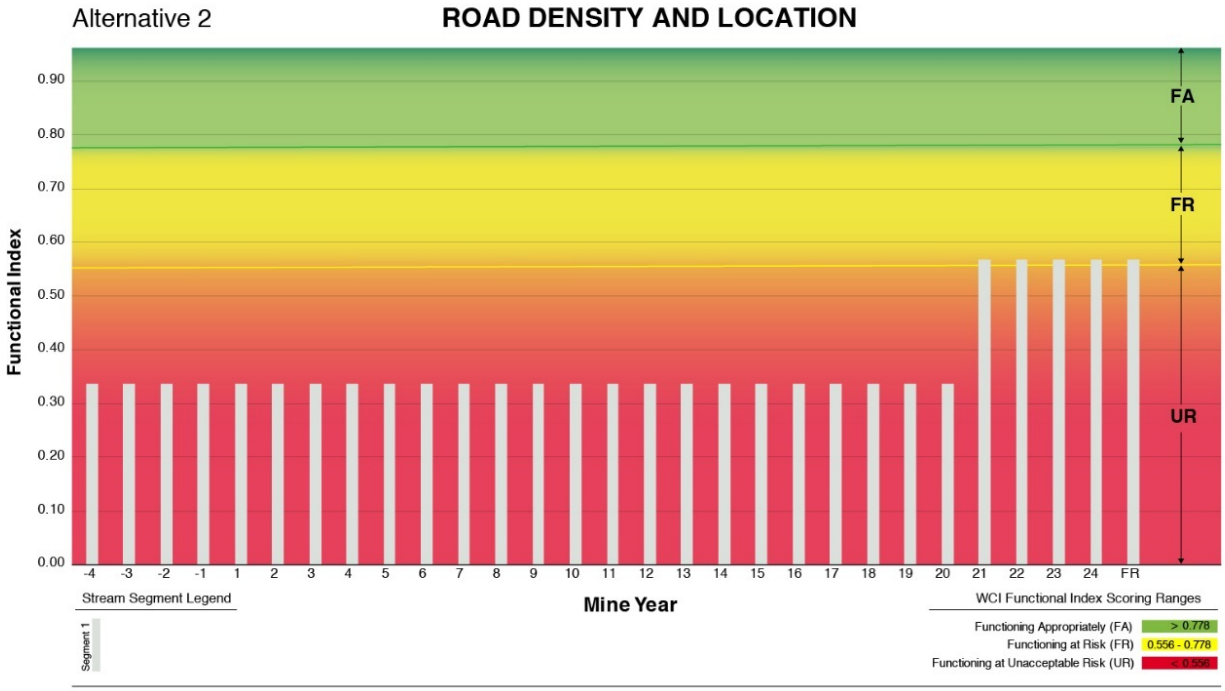

Alternative 2

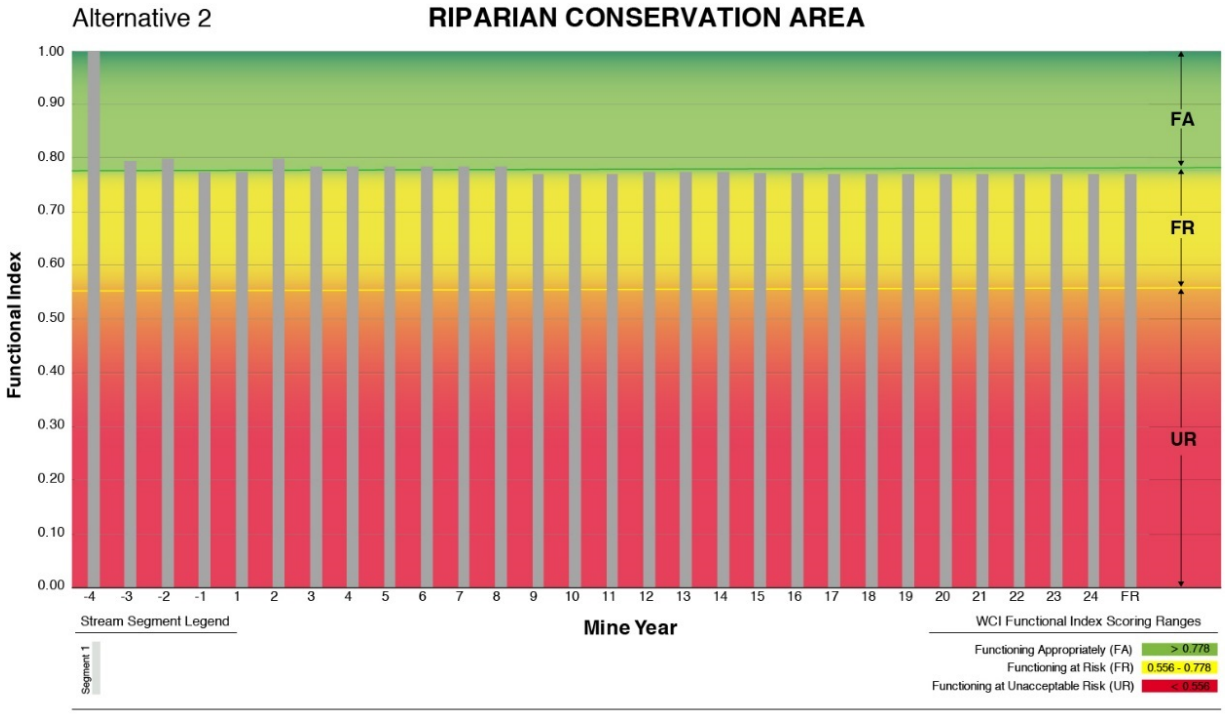
**FLOODPLAIN CONNECTIVITY**



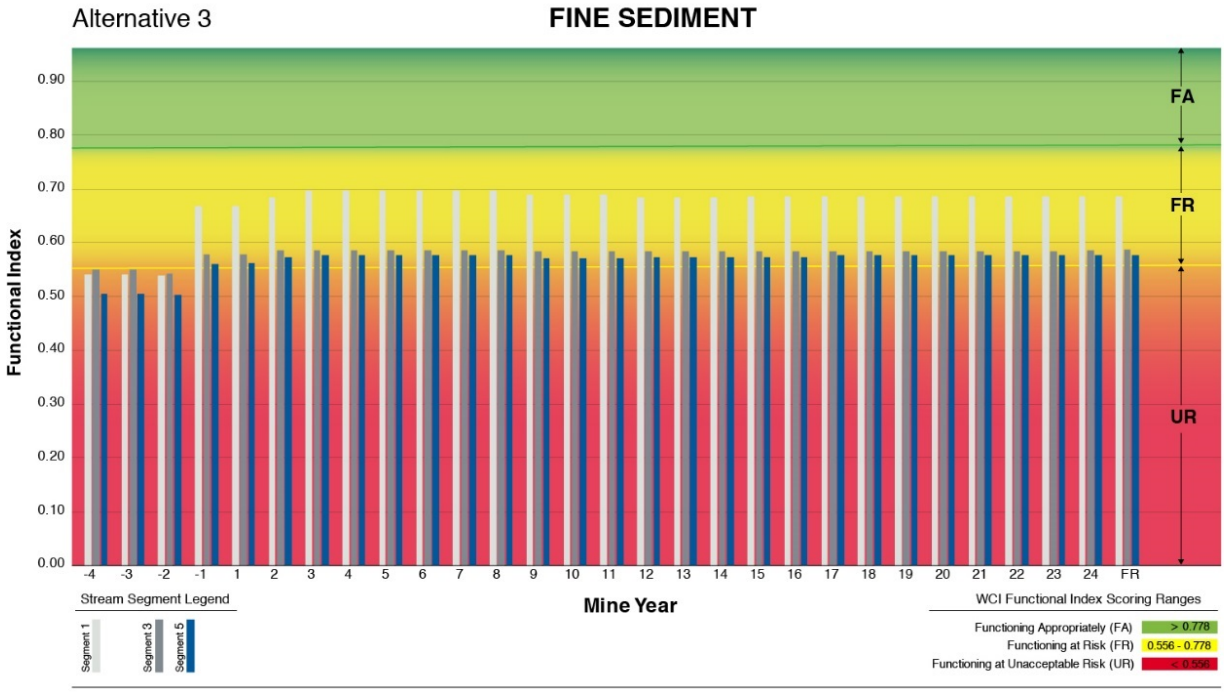

Alternative 2
CHANGE IN PEAK / BASE FLOW
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 2
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

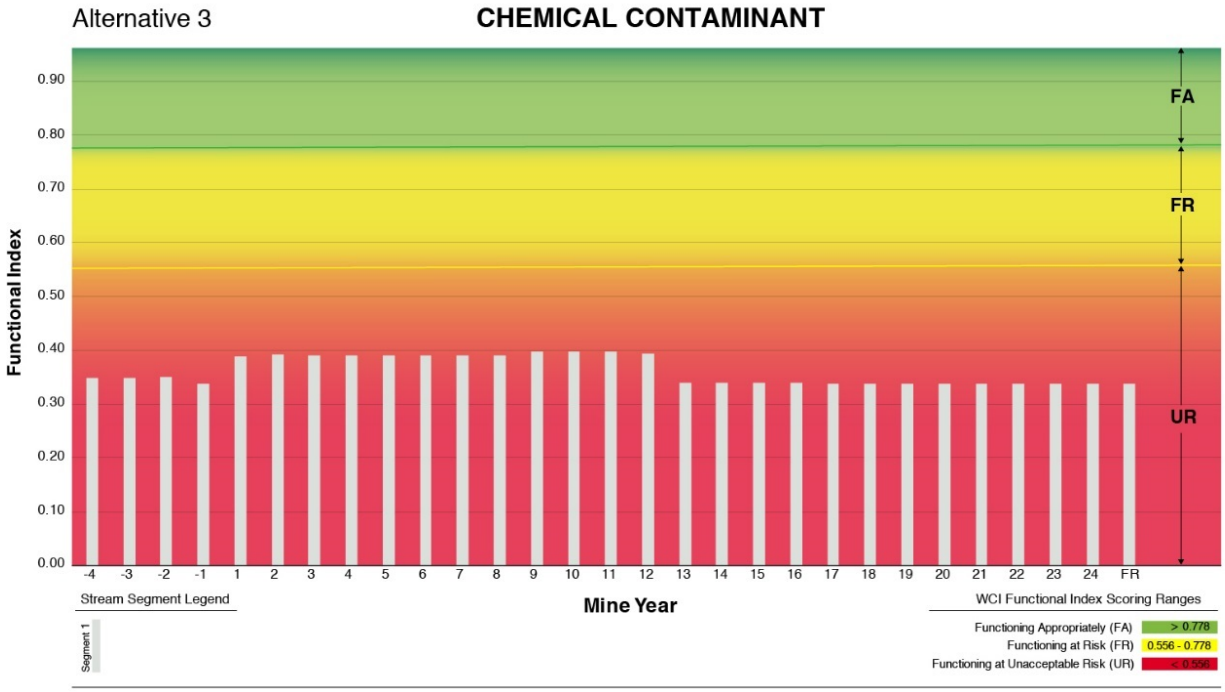

Alternative 2
DRAINAGE NETWORK
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

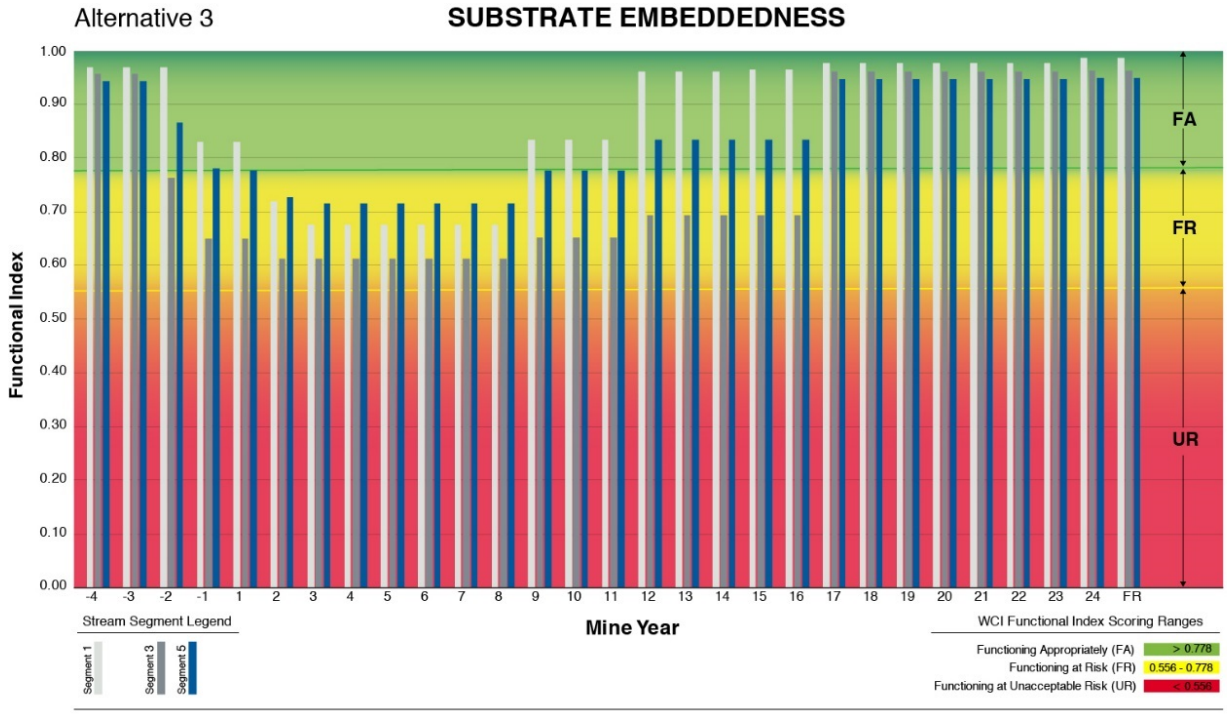

Alternative 2
ROAD DENSITY AND LOCATION
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

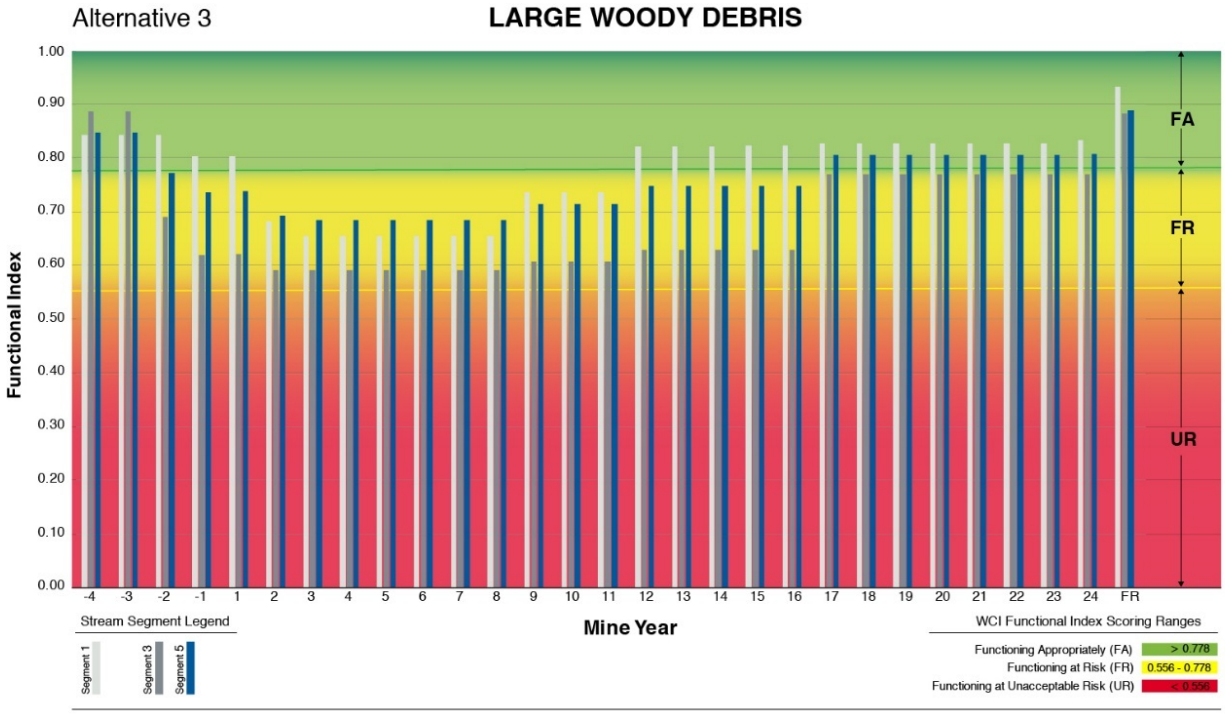

Alternative 2
RIPARIAN CONSERVATION AREA
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

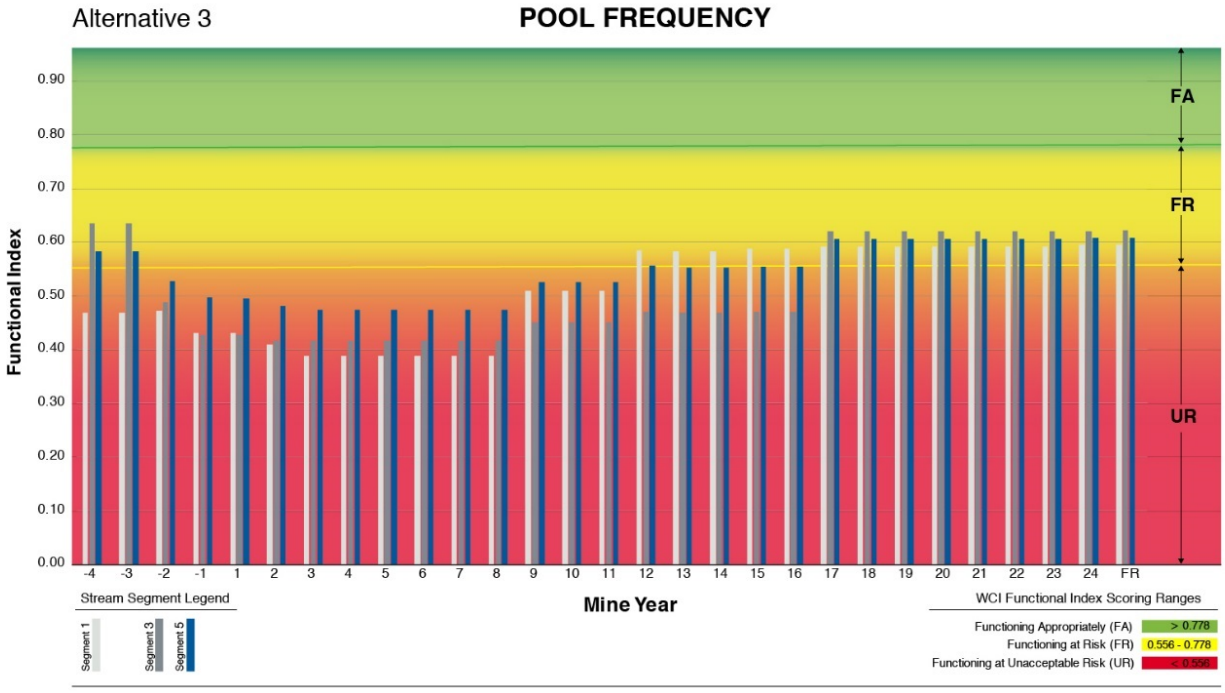
## J.4.3 ALTERNATIVE 3

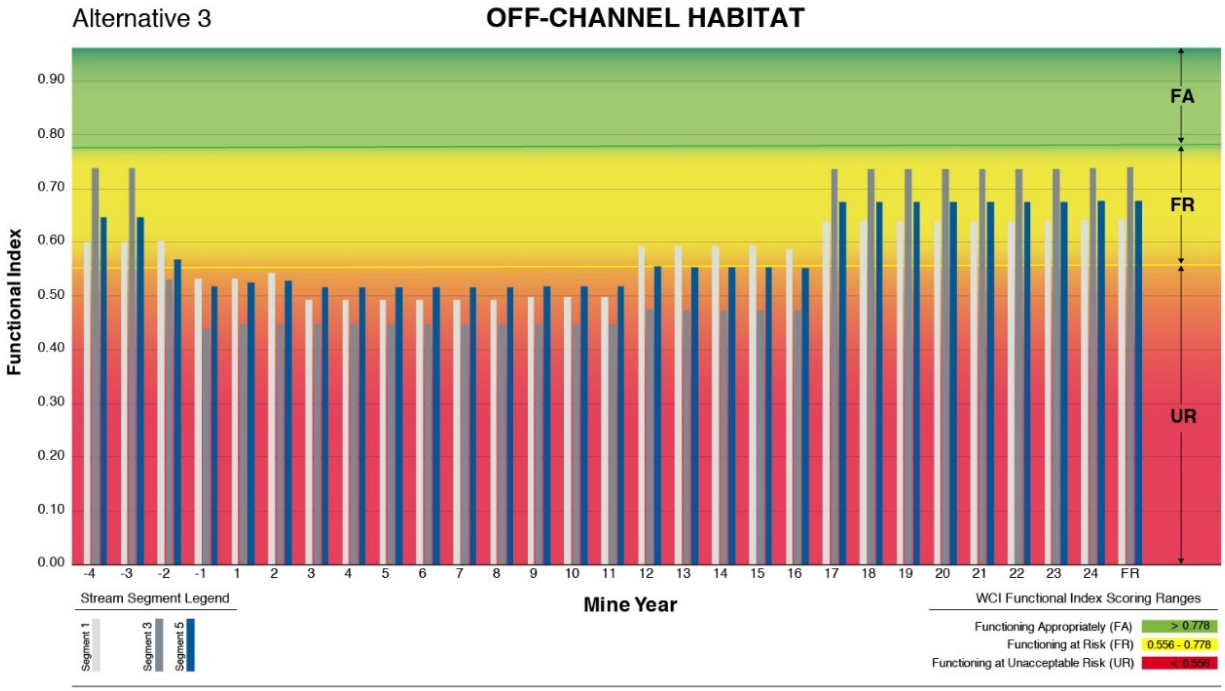


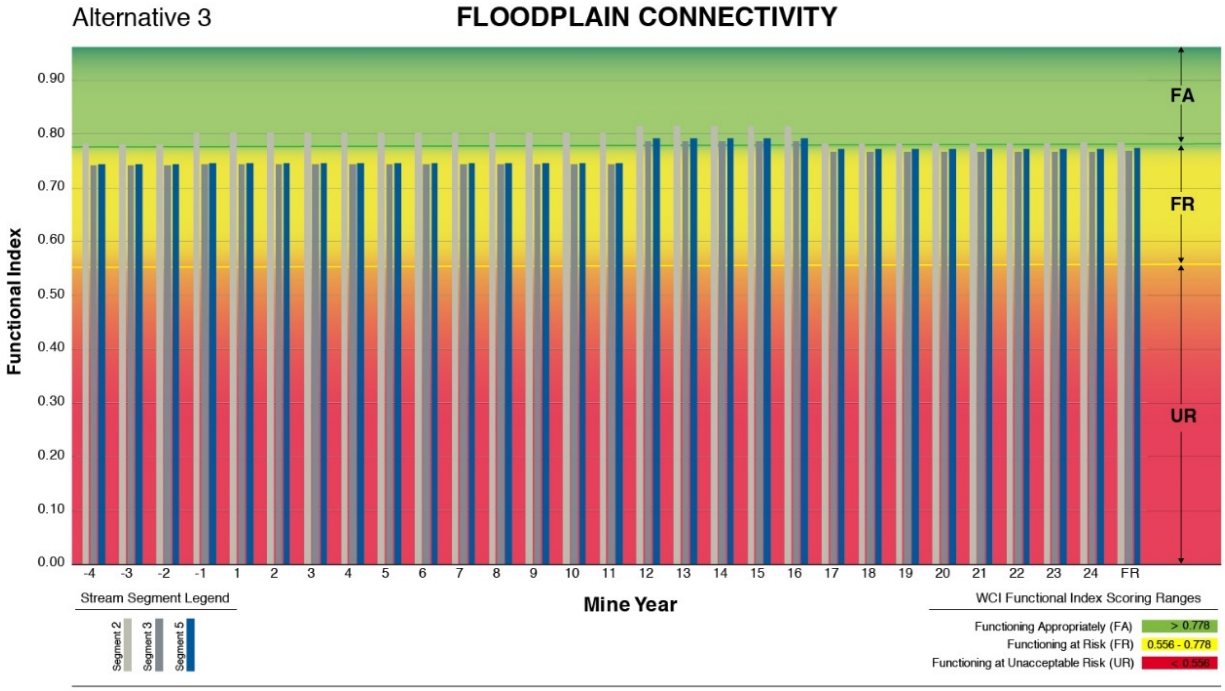



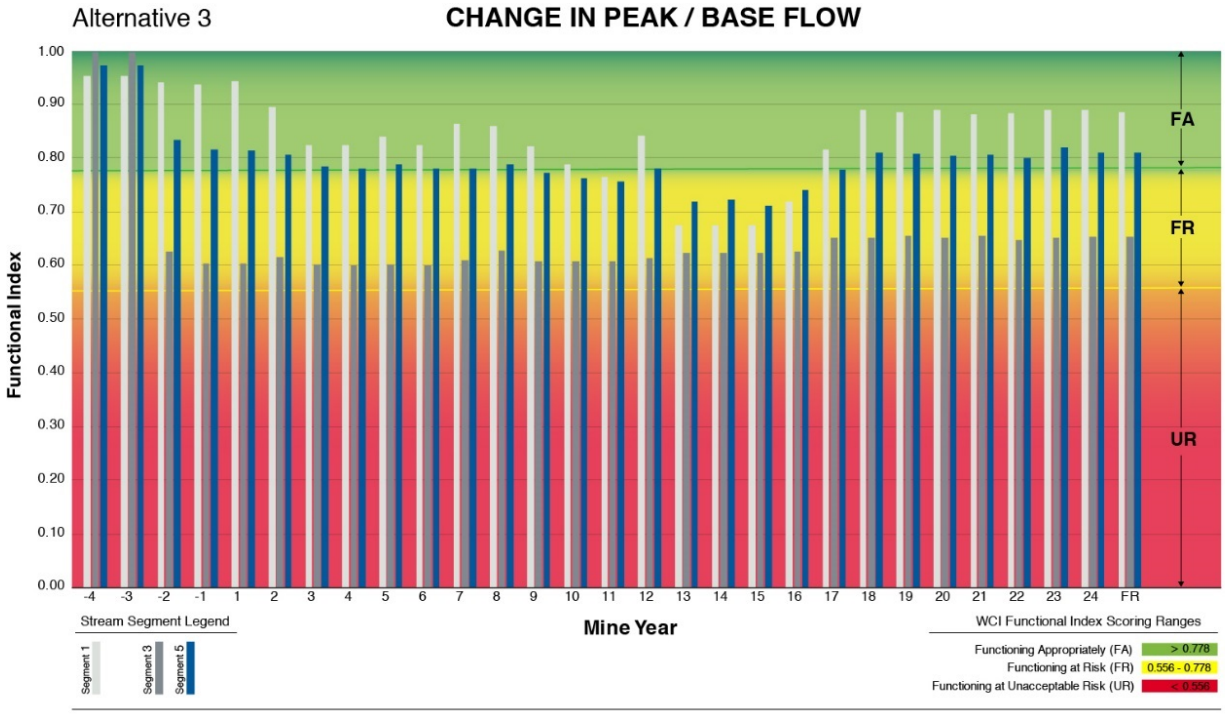

Alternative 3
SUBSTRATE EMBEDDEDNESS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

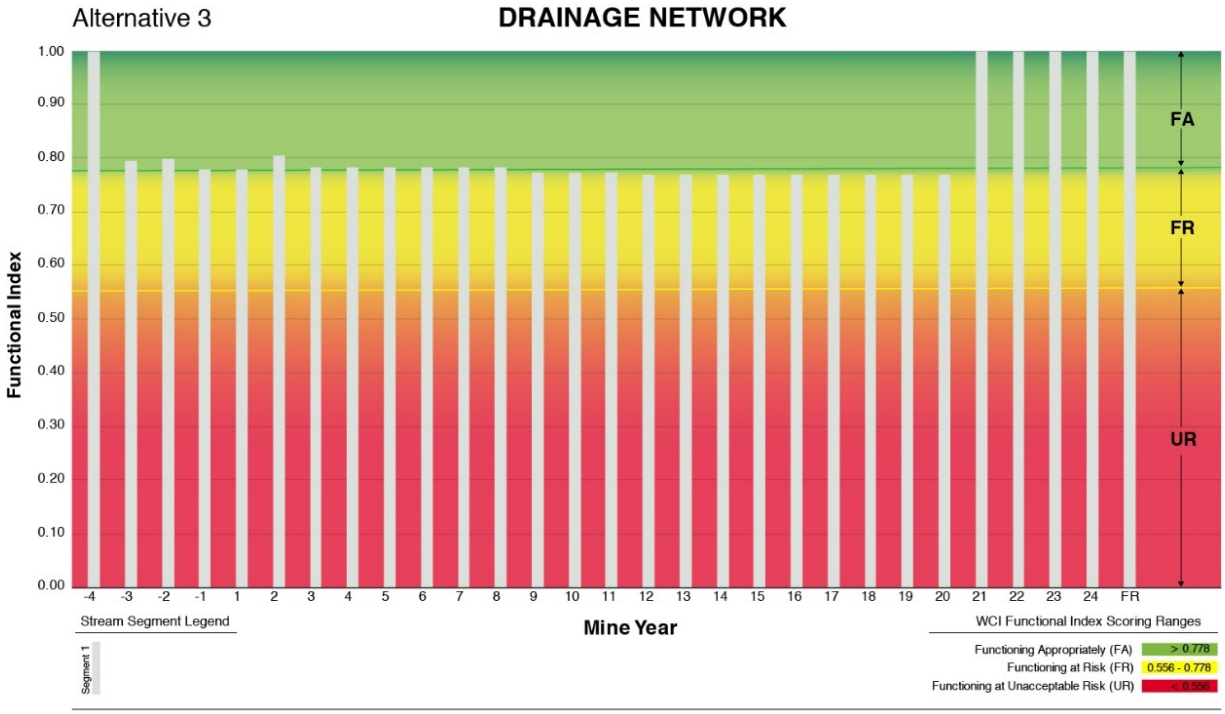

Alternative 3
LARGE WOODY DEBRIS
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

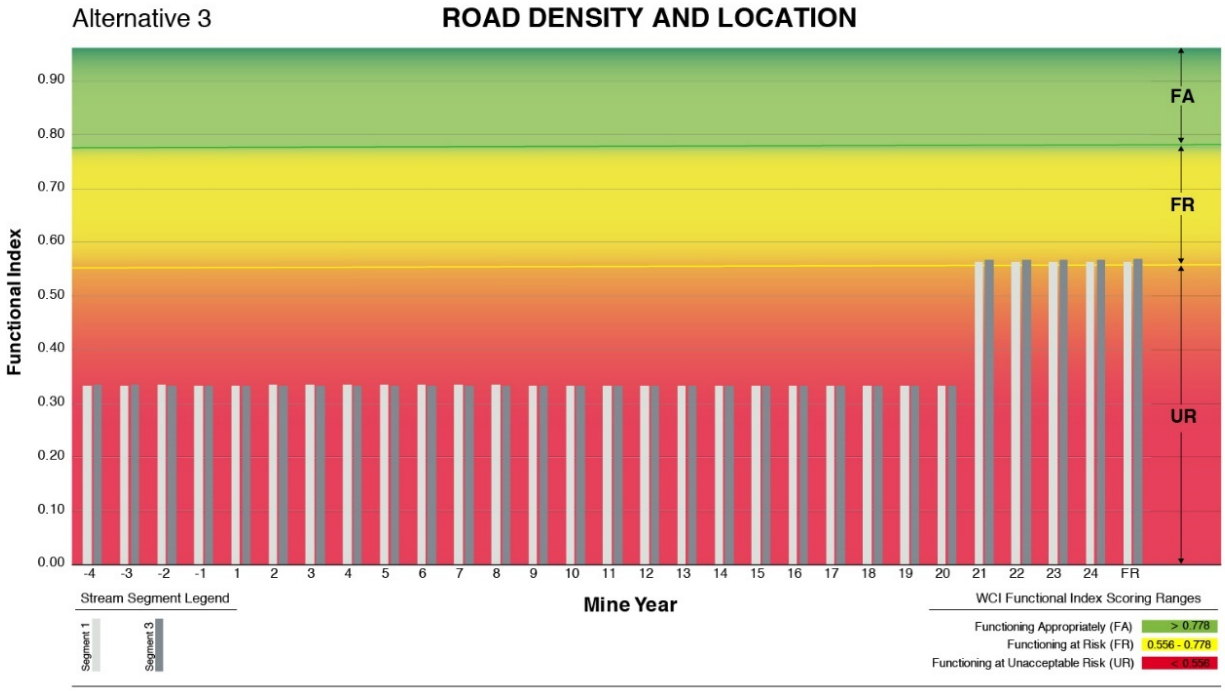

Alternative 3
POOL FREQUENCY
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

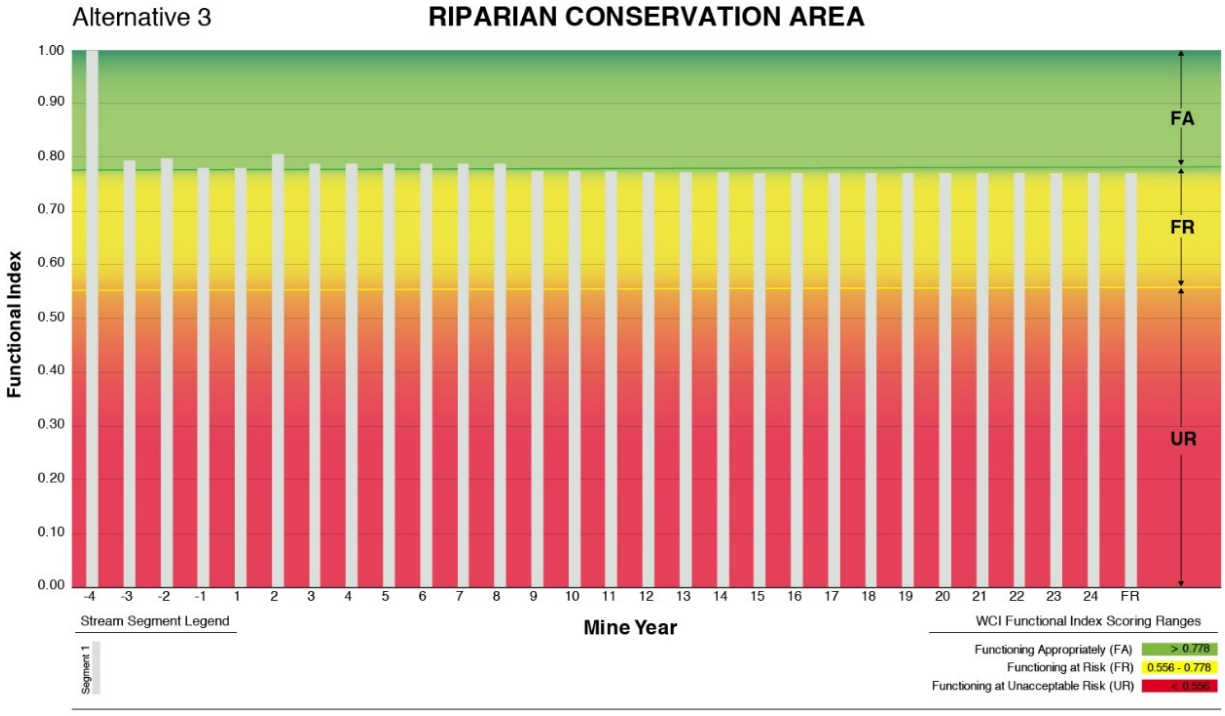

Alternative 3
OFF-CHANNEL HABITAT
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 3
FLOODPLAIN CONNECTIVITY
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 2
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 3
CHANGE IN PEAK / BASE FLOW
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
Segment 5
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 3
DRAINAGE NETWORK
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 3
ROAD DENSITY AND LOCATION
Functional Index
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
Segment 3
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556


Alternative 3
RIPARIAN CONSERVATION AREA
Functional Index
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
FA
FR
UR
-4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 FR
Mine Year
Stream Segment Legend
Segment 1
WCI Functional Index Scoring Ranges
Functioning Appropriately (FA) > 0.778
Functioning at Risk (FR) 0.556 - 0.778
Functioning at Unacceptable Risk (UR) < 0.556

# J.5 PREDICTED STREAMFLOWS

Additional information is summarized in this section in support of Section 4.12.2.3.3.1, Changes to WCIs at the Mine Site, and related subsections for each alternative.

**Tables J1-16, J1-17**, and **J1-18** present the predicted monthly discharge from August-March Low Flow Period at five USGS gaging stations and one SFA Reach (MC-6).

## Table J1-16 Alternative 1 Predicted Monthly Discharge August-March Low Flow Period at USGS Gaging Stations and one SFA Reach (MC-6)

Alternative 1

| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -1 | low flow | 4.3 | 4.3 | 0.0 | -0.1% | 9.1 | 8.1 | -0.1 | -11.3% | 13.6 | 12.6 | -0.1 | -7.5% | 10.2 | 10.3 | 0.0 | 1.1% | 2.8 | 0.2 | -0.9 | -92.8% | 4.6 | 3.6 | -0.2 | -23.0% |
| 1 | low flow | 4.1 | 4.1 | 0.0 | 1.3% | 8.5 | 8.9 | 0.0 | 4.9% | 13.0 | 10.8 | -0.2 | -16.9% | 9.6 | 9.9 | 0.0 | 3.3% | 2.5 | 0.2 | -0.9 | -94.1% | 4.2 | 3.7 | -0.1 | -12.6% |
| 2 | low flow | 6.4 | 6.4 | 0.0 | 1.1% | 13.6 | 14.0 | 0.0 | 4.5% | 18.9 | 15.8 | -0.2 | -19.0% | 14.2 | 14.5 | 0.0 | 2.5% | 3.6 | 1.5 | -0.7 | -70.4% | 6.8 | 6.2 | -0.1 | -9.6% |
| 3 | low flow | 4.3 | 4.4 | 0.0 | 1.3% | 8.9 | 9.3 | 0.0 | 4.8% | 13.6 | 10.0 | -0.3 | -26.9% | 10.1 | 10.4 | 0.0 | 3.7% | 2.7 | 0.2 | -0.9 | -93.2% | 4.4 | 3.9 | -0.1 | -11.0% |
| 4 | low flow | 5.2 | 5.2 | 0.0 | 1.3% | 10.9 | 11.4 | 0.1 | 6.1% | 15.9 | 12.2 | -0.3 | -25.6% | 11.8 | 12.2 | 0.0 | 4.0% | 3.0 | 0.8 | -0.8 | -83.1% | 5.4 | 4.9 | -0.1 | -10.0% |
| 5 | low flow | 4.7 | 4.8 | 0.0 | 1.8% | 9.8 | 10.9 | 0.1 | 12.1% | 14.7 | 11.2 | -0.2 | -24.2% | 11.0 | 11.4 | 0.0 | 3.6% | 2.8 | 0.4 | -0.9 | -86.8% | 4.8 | 4.4 | -0.1 | -8.7% |
| 6 | low flow | 4.7 | 4.7 | 0.0 | 2.1% | 9.6 | 10.9 | 0.1 | 14.6% | 14.5 | 11.1 | -0.2 | -24.7% | 10.8 | 11.2 | 0.0 | 3.8% | 2.7 | 0.4 | -0.9 | -87.9% | 4.7 | 4.3 | -0.1 | -8.3% |
| 7 | low flow | 5.2 | 5.4 | 0.0 | 4.7% | 10.9 | 12.7 | 0.2 | 20.4% | 16.1 | 13.1 | -0.2 | -19.4% | 12.0 | 12.4 | 0.0 | 3.7% | 3.0 | 0.7 | -0.8 | -83.6% | 5.4 | 3.3 | -0.4 | -41.6% |
| 8 | low flow | 7.5 | 7.8 | 0.1 | 6.1% | 16.0 | 18.2 | 0.2 | 23.2% | 22.1 | 19.5 | -0.1 | -14.9% | 16.2 | 16.4 | 0.0 | 3.0% | 4.8 | 2.5 | -0.8 | -77.4% | 8.1 | 5.0 | -0.5 | -52.3% |
| 9 | low flow | 4.7 | 4.9 | 0.1 | 5.1% | 9.7 | 10.3 | 0.1 | 7.0% | 14.7 | 11.3 | -0.2 | -23.1% | 11.0 | 11.4 | 0.0 | 3.9% | 2.8 | 0.4 | -0.9 | -88.6% | 4.8 | 1.7 | -0.7 | -65.5% |
| 10 | low flow | 5.1 | 5.3 | 0.0 | 4.1% | 10.9 | 10.5 | 0.0 | -2.3% | 15.6 | 12.2 | -0.2 | -22.8% | 11.7 | 12.0 | 0.0 | 3.0% | 3.0 | 0.7 | -0.8 | -83.6% | 5.5 | 2.1 | -0.7 | -66.3% |
| 11 | low flow | 6.1 | 6.3 | 0.0 | 4.1% | 12.9 | 12.4 | 0.0 | -1.8% | 18.0 | 14.8 | -0.2 | -20.1% | 13.2 | 13.7 | 0.0 | 3.7% | 3.7 | 1.4 | -0.8 | -78.6% | 6.4 | 2.9 | -0.6 | -64.3% |
| 12 | low flow | 8.6 | 8.8 | 0.0 | 4.0% | 18.1 | 18.8 | 0.1 | 8.1% | 24.4 | 22.1 | -0.1 | -10.2% | 17.7 | 18.5 | 0.1 | 5.5% | 5.0 | 2.7 | -0.6 | -61.6% | 8.9 | 5.1 | -0.5 | -49.7% |
| 13 | low flow | 5.4 | 5.4 | 0.0 | 0.2% | 11.3 | 6.6 | -0.4 | -43.5% | 16.6 | 9.4 | -0.5 | -45.6% | 12.7 | 10.6 | -0.2 | -19.3% | 3.3 | 0.4 | -0.9 | -87.3% | 5.6 | 1.1 | -0.8 | -83.9% |
| 14 | low flow | 4.5 | 4.5 | 0.0 | -0.1% | 9.6 | 5.0 | -0.5 | -48.8% | 13.9 | 8.6 | -0.4 | -39.3% | 10.7 | 9.6 | -0.1 | -12.1% | 2.9 | 0.2 | -0.9 | -92.5% | 4.9 | 0.6 | -0.9 | -90.4% |
| 15 | low flow | 6.5 | 6.5 | 0.0 | -0.1% | 13.8 | 9.7 | -0.4 | -39.2% | 18.8 | 14.1 | -0.3 | -31.5% | 14.2 | 13.4 | -0.1 | -9.0% | 4.0 | 1.2 | -0.8 | -82.4% | 7.0 | 3.1 | -0.7 | -71.7% |
| 16 | low flow | 4.8 | 4.8 | 0.0 | -0.1% | 9.8 | 6.5 | -0.3 | -34.9% | 14.7 | 10.3 | -0.3 | -30.4% | 11.3 | 10.0 | -0.1 | -11.9% | 2.9 | 0.3 | -0.9 | -91.2% | 4.8 | 1.8 | -0.6 | -64.6% |
| 17 | low flow | 4.0 | 4.0 | 0.0 | -0.3% | 8.4 | 6.1 | -0.3 | -28.1% | 12.8 | 9.5 | -0.3 | -26.4% | 9.8 | 8.7 | -0.1 | -11.0% | 2.5 | 0.1 | -1.0 | -96.0% | 4.1 | 2.0 | -0.5 | -53.1% |
| 18 | low flow | 4.5 | 4.5 | 0.0 | -0.7% | 9.4 | 7.9 | -0.2 | -18.6% | 14.0 | 11.5 | -0.2 | -19.3% | 10.9 | 10.1 | -0.1 | -8.4% | 2.6 | 0.2 | -0.9 | -92.6% | 4.6 | 3.1 | -0.4 | -36.7% |
| 19 | low flow | 4.4 | 4.4 | 0.0 | 0.0% | 9.6 | 8.6 | -0.1 | -11.4% | 13.3 | 12.0 | -0.1 | -11.6% | 10.0 | 9.7 | -0.1 | -6.3% | 2.8 | 0.3 | -0.9 | -92.4% | 4.9 | 3.9 | -0.2 | -23.7% |
| 20 | low flow | 4.5 | 4.5 | 0.0 | 0.0% | 9.3 | 9.5 | 0.0 | 2.9% | 13.7 | 13.0 | 0.0 | -4.0% | 10.4 | 9.5 | -0.1 | -8.8% | 2.8 | 0.3 | -0.9 | -91.8% | 4.6 | 4.8 | 0.0 | 4.6% |
| Post Closure | low flow | 5.0 | 5.0 | 0.0 | -0.3% | 10.6 | 10.7 | 0.0 | 1.9% | 15.4 | 14.7 | 0.0 | -4.7% | 11.7 | 11.3 | 0.0 | -4.7% | 3.1 | 0.5 | -0.9 | -90.4% | 5.3 | 5.4 | 0.0 | 2.9% |

Table Source: data from Rio-ASE spreadsheet: Modflow_Alternatives_Summary_08192019.xls

## Table J1-17 Alternative 2 Predicted Monthly Discharge August-March Low Flow Period at USGS Gaging Stations and one SFA Reach (MC-6)

Alternative 2

| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -2 | low flow | 6.5 | 6.6 | 0.0 | 1.8% | 13.6 | 13.4 | 0.0 | -1.4% | 19.3 | 19.2 | 0.0 | -0.4% | 14.7 | 14.9 | 0.0 | 1.6% | 3.8 | 1.3 | -0.7 | -74.1% | 6.7 | 6.3 | -0.1 | -6.7% |
| -1 | low flow | 4.3 | 4.4 | 0.0 | 2.2% | 9.1 | 8.2 | -0.1 | -9.9% | 13.6 | 12.8 | -0.1 | -5.2% | 10.2 | 10.5 | 0.0 | 2.9% | 2.8 | 0.2 | -0.9 | -92.8% | 4.6 | 3.2 | -0.3 | -31.0% |
| 1 | low flow | 4.1 | 4.2 | 0.0 | 3.5% | 8.5 | 9.0 | 0.1 | 6.5% | 13.0 | 11.0 | -0.2 | -15.3% | 9.6 | 10.0 | 0.0 | 4.9% | 2.5 | 0.2 | -0.9 | -94.1% | 4.2 | 3.1 | -0.3 | -26.3% |
| 2 | low flow | 6.4 | 6.5 | 0.0 | 3.3% | 13.6 | 14.2 | 0.1 | 6.7% | 18.9 | 16.1 | -0.2 | -16.7% | 14.2 | 14.7 | 0.0 | 4.4% | 3.6 | 1.5 | -0.7 | -70.4% | 6.8 | 5.0 | -0.3 | -25.9% |
| 3 | low flow | 4.3 | 4.4 | 0.0 | 3.0% | 8.9 | 9.5 | 0.1 | 6.6% | 13.6 | 10.3 | -0.2 | -24.7% | 10.1 | 10.5 | 0.0 | 4.4% | 2.7 | 0.2 | -0.9 | -93.2% | 4.4 | 3.3 | -0.2 | -24.8% |
| 4 | low flow | 5.2 | 5.3 | 0.0 | 3.5% | 10.9 | 11.6 | 0.1 | 8.5% | 15.9 | 12.5 | -0.2 | -23.0% | 11.8 | 12.3 | 0.1 | 5.3% | 3.0 | 0.8 | -0.8 | -83.1% | 5.4 | 4.0 | -0.3 | -25.3% |
| 5 | low flow | 4.7 | 4.9 | 0.0 | 4.1% | 9.8 | 11.1 | 0.1 | 14.7% | 14.7 | 11.6 | -0.2 | -21.3% | 11.0 | 11.5 | 0.0 | 4.9% | 2.8 | 0.4 | -0.9 | -86.8% | 4.8 | 3.7 | -0.2 | -23.4% |
| 6 | low flow | 4.7 | 4.8 | 0.0 | 4.4% | 9.6 | 11.1 | 0.2 | 17.2% | 14.5 | 11.4 | -0.2 | -21.7% | 10.8 | 11.3 | 0.1 | 5.2% | 2.7 | 0.4 | -0.9 | -87.9% | 4.7 | 3.6 | -0.2 | -23.2% |
| 7 | low flow | 5.2 | 5.5 | 0.1 | 6.3% | 10.9 | 13.4 | 0.3 | 28.0% | 16.1 | 13.9 | -0.1 | -13.3% | 12.0 | 12.4 | 0.0 | 4.3% | 3.0 | 0.7 | -0.8 | -83.6% | 5.4 | 3.8 | -0.3 | -28.4% |
| 8 | low flow | 7.5 | 8.0 | 0.1 | 7.4% | 16.0 | 18.9 | 0.3 | 29.3% | 22.1 | 20.4 | -0.1 | -9.7% | 16.2 | 16.7 | 0.0 | 4.1% | 4.8 | 2.5 | -0.8 | -77.4% | 8.1 | 5.9 | -0.3 | -29.3% |
| 9 | low flow | 4.7 | 4.9 | 0.1 | 6.1% | 9.7 | 10.6 | 0.1 | 11.0% | 14.7 | 11.8 | -0.2 | -19.7% | 11.0 | 11.4 | 0.0 | 4.7% | 2.8 | 0.4 | -0.9 | -88.6% | 4.8 | 3.1 | -0.4 | -36.6% |
| 10 | low flow | 5.1 | 5.3 | 0.1 | 5.2% | 10.9 | 10.9 | 0.0 | 2.2% | 15.6 | 12.7 | -0.2 | -19.0% | 11.7 | 12.0 | 0.0 | 2.9% | 3.0 | 0.7 | -0.8 | -83.6% | 5.5 | 3.3 | -0.4 | -38.9% |
| 11 | low flow | 6.1 | 6.3 | 0.0 | 4.9% | 12.9 | 12.9 | 0.0 | 3.3% | 18.0 | 15.3 | -0.2 | -15.9% | 13.2 | 13.3 | 0.0 | 1.4% | 3.7 | 1.4 | -0.8 | -78.6% | 6.4 | 4.1 | -0.4 | -37.8% |
| 12 | low flow | 8.6 | 8.9 | 0.1 | 5.4% | 18.1 | 19.4 | 0.1 | 12.7% | 24.4 | 22.7 | -0.1 | -6.8% | 17.7 | 18.0 | 0.0 | 1.9% | 5.0 | 2.7 | -0.6 | -61.6% | 8.9 | 6.0 | -0.3 | -32.8% |
| 13 | low flow | 5.4 | 5.5 | 0.0 | 2.4% | 11.3 | 10.1 | -0.1 | -10.7% | 16.6 | 14.3 | -0.1 | -13.8% | 12.7 | 10.8 | -0.2 | -17.6% | 3.3 | 0.4 | -0.9 | -87.3% | 5.6 | 4.2 | -0.3 | -26.6% |
| 14 | low flow | 4.5 | 4.6 | 0.0 | 2.1% | 9.6 | 9.1 | -0.1 | -5.2% | 13.9 | 13.1 | -0.1 | -5.2% | 10.7 | 9.7 | -0.1 | -10.2% | 2.9 | 0.2 | -0.9 | -92.5% | 4.9 | 3.7 | -0.2 | -23.9% |
| 15 | low flow | 6.5 | 6.6 | 0.0 | 1.7% | 13.8 | 14.1 | 0.0 | 3.2% | 18.8 | 18.8 | 0.0 | 0.5% | 14.2 | 13.6 | -0.1 | -7.5% | 4.0 | 1.2 | -0.8 | -82.4% | 7.0 | 6.7 | -0.1 | -7.5% |
| 16 | low flow | 4.8 | 4.8 | 0.0 | 2.0% | 9.8 | 10.1 | 0.0 | 3.5% | 14.7 | 14.9 | 0.0 | 2.1% | 11.3 | 10.2 | -0.1 | -10.1% | 2.9 | 0.3 | -0.9 | -91.2% | 4.8 | 4.9 | 0.0 | 1.4% |
| 17 | low flow | 4.0 | 4.1 | 0.0 | 1.9% | 8.4 | 8.6 | 0.0 | 3.9% | 12.8 | 13.1 | 0.0 | 2.8% | 9.8 | 8.9 | -0.1 | -9.1% | 2.5 | 0.1 | -1.0 | -96.0% | 4.1 | 4.2 | 0.0 | 1.8% |
| 18 | low flow | 4.5 | 4.6 | 0.0 | 1.4% | 9.4 | 9.6 | 0.0 | 3.2% | 14.0 | 14.1 | 0.0 | 2.6% | 10.9 | 10.3 | -0.1 | -6.5% | 2.6 | 0.2 | -0.9 | -92.6% | 4.6 | 4.6 | 0.0 | 1.3% |
| 19 | low flow | 4.4 | 4.5 | 0.0 | 1.6% | 9.6 | 9.7 | 0.0 | 2.5% | 13.3 | 13.7 | 0.0 | 3.7% | 10.0 | 9.8 | 0.0 | -4.9% | 2.8 | 0.3 | -0.9 | -92.4% | 4.9 | 4.9 | 0.0 | 0.1% |
| 20 | low flow | 4.5 | 4.6 | 0.0 | 2.2% | 9.3 | 9.6 | 0.0 | 4.5% | 13.7 | 13.9 | 0.0 | 3.5% | 10.4 | 9.7 | -0.1 | -6.8% | 2.8 | 0.3 | -0.9 | -91.8% | 4.6 | 4.7 | 0.0 | 3.0% |
| Post-closure | low flow | 5.5 | 5.6 | 0.0 | 0.0 | 11.5 | 11.8 | 0.0 | 0.0 | 16.5 | 16.8 | 0.0 | 0.0 | 12.6 | 12.5 | 0.0 | 0.0 | 3.4 | 0.7 | -0.9 | -0.9 | 5.8 | 5.8 | 0.0 | 0.0 |

Table Source: data from Rio-ASE spreadsheet: Modflow_Alternatives_Summary_08192019.xls

## Table J1-18 Alternative 3 Predicted Monthly Discharge August-March Low Flow Period at USGS Gaging Stations and one SFA Reach (MC-6)

Alternative 3

| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | | Simulated Streamflow (cfs) | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -2 | low flow | 6.5 | 5.4 | -0.2 | -18.4% | 13.6 | 12.6 | -0.1 | -8.7% | 19.3 | 18.3 | -0.1 | -5.9% | 14.7 | 14.7 | 0.0 | 0.0% | 3.8 | 3.9 | 0.0 | 2.7% | 6.7 | 6.7 | 0.0 | 0.2% |
| -1 | low flow | 4.3 | 3.5 | -0.2 | -18.9% | 9.1 | 7.9 | -0.1 | -13.1% | 13.6 | 12.4 | -0.1 | -8.7% | 10.2 | 10.2 | 0.0 | 0.0% | 2.8 | 2.8 | 0.0 | 2.3% | 4.6 | 4.2 | -0.1 | -9.0% |
| 1 | low flow | 4.1 | 3.1 | -0.2 | -21.6% | 8.5 | 8.5 | 0.0 | 0.5% | 13.0 | 10.4 | -0.2 | -19.7% | 9.6 | 9.6 | 0.0 | 0.0% | 2.5 | 2.6 | 0.0 | 2.2% | 4.2 | 4.3 | 0.0 | 1.2% |
| 2 | low flow | 6.4 | 5.5 | -0.2 | -16.6% | 13.6 | 13.7 | 0.0 | 1.5% | 18.9 | 15.5 | -0.2 | -21.1% | 14.2 | 14.2 | 0.0 | 0.0% | 3.6 | 3.6 | 0.0 | 1.6% | 6.8 | 6.8 | 0.0 | 1.6% |
| 3 | low flow | 4.3 | 3.4 | -0.2 | -21.4% | 8.9 | 8.9 | 0.0 | -0.2% | 13.6 | 9.5 | -0.3 | -30.2% | 10.1 | 10.1 | 0.0 | 0.0% | 2.7 | 2.7 | 0.0 | 2.5% | 4.4 | 4.5 | 0.0 | 1.6% |
| 4 | low flow | 5.2 | 4.2 | -0.2 | -20.7% | 10.9 | 10.9 | 0.0 | 1.3% | 15.9 | 11.7 | -0.3 | -28.8% | 11.8 | 11.8 | 0.0 | 0.0% | 3.0 | 3.1 | 0.0 | 1.4% | 5.4 | 5.5 | 0.0 | 2.0% |
| 5 | low flow | 4.7 | 3.7 | -0.2 | -21.3% | 9.8 | 10.3 | 0.1 | 6.7% | 14.7 | 10.7 | -0.3 | -27.8% | 11.0 | 11.0 | 0.0 | 0.0% | 2.8 | 2.9 | 0.0 | 2.7% | 4.8 | 4.9 | 0.0 | 3.4% |
| 6 | low flow | 4.7 | 3.7 | -0.2 | -21.0% | 9.6 | 10.4 | 0.1 | 9.2% | 14.5 | 10.5 | -0.3 | -28.2% | 10.8 | 10.8 | 0.0 | 0.0% | 2.7 | 2.8 | 0.0 | 2.0% | 4.7 | 4.9 | 0.0 | 4.1% |
| 7 | low flow | 5.2 | 4.3 | -0.2 | -17.9% | 10.9 | 12.1 | 0.1 | 14.5% | 16.1 | 12.4 | -0.2 | -23.4% | 12.0 | 12.0 | 0.0 | 0.0% | 3.0 | 3.1 | 0.0 | 2.1% | 5.4 | 3.6 | -0.3 | -33.9% |
| 8 | low flow | 7.5 | 6.6 | -0.2 | -15.4% | 16.0 | 17.2 | 0.1 | 14.9% | 22.1 | 18.5 | -0.2 | -20.5% | 16.2 | 16.2 | 0.0 | 0.0% | 4.8 | 4.9 | 0.0 | 1.5% | 8.1 | 5.2 | -0.5 | -50.8% |
| 9 | low flow | 4.7 | 3.9 | -0.2 | -16.6% | 9.7 | 9.5 | 0.0 | -1.8% | 14.7 | 10.5 | -0.3 | -28.9% | 11.0 | 11.0 | 0.0 | 0.0% | 2.8 | 2.9 | 0.0 | 2.1% | 4.8 | 1.7 | -0.7 | -67.1% |
| 10 | low flow | 5.1 | 4.3 | -0.2 | -15.5% | 10.9 | 9.8 | -0.1 | -9.7% | 15.6 | 11.5 | -0.3 | -27.7% | 11.7 | 11.7 | 0.0 | 0.0% | 3.0 | 3.1 | 0.0 | 1.8% | 5.5 | 2.1 | -0.7 | -67.6% |
| 11 | low flow | 6.1 | 5.1 | -0.2 | -17.3% | 12.9 | 11.6 | -0.1 | -9.5% | 18.0 | 13.9 | -0.3 | -25.3% | 13.2 | 13.2 | 0.0 | 0.0% | 3.7 | 3.7 | 0.0 | 1.6% | 6.4 | 3.0 | -0.6 | -64.8% |
| 12 | low flow | 8.6 | 7.3 | -0.2 | -17.1% | 18.1 | 17.8 | 0.0 | 0.6% | 24.4 | 21.1 | -0.2 | -15.4% | 17.7 | 17.7 | 0.0 | 0.1% | 5.0 | 5.1 | 0.0 | 2.1% | 8.9 | 5.5 | -0.5 | -47.4% |
| 13 | low flow | 5.4 | 5.4 | 0.0 | 0.2% | 11.3 | 6.0 | -0.5 | -46.9% | 16.6 | 10.4 | -0.4 | -37.3% | 12.7 | 10.8 | -0.2 | -17.6% | 3.3 | 3.2 | 0.0 | -1.5% | 5.6 | 0.5 | -0.9 | -94.3% |
| 14 | low flow | 4.5 | 4.6 | 0.0 | 2.2% | 9.6 | 4.7 | -0.5 | -51.0% | 13.9 | 9.1 | -0.3 | -34.0% | 10.7 | 9.7 | -0.1 | -10.2% | 2.9 | 2.8 | 0.0 | -1.3% | 4.9 | 0.1 | -1.0 | -97.9% |
| 15 | low flow | 6.5 | 6.4 | 0.0 | 0.0% | 13.8 | 9.1 | -0.4 | -42.5% | 18.8 | 14.2 | -0.3 | -28.6% | 14.2 | 13.6 | -0.1 | -7.4% | 4.0 | 3.8 | 0.0 | -2.5% | 7.0 | 2.6 | -0.8 | -78.7% |
| 16 | low flow | 4.8 | 4.7 | 0.0 | 0.2% | 9.8 | 6.5 | -0.4 | -35.3% | 14.7 | 11.3 | -0.2 | -23.4% | 11.3 | 10.2 | -0.1 | -10.0% | 2.9 | 2.9 | 0.0 | 0.2% | 4.8 | 1.6 | -0.7 | -69.6% |
| 17 | low flow | 4.0 | 4.1 | 0.0 | 1.1% | 8.4 | 6.8 | -0.2 | -20.0% | 12.8 | 11.2 | -0.1 | -12.7% | 9.8 | 8.9 | -0.1 | -9.0% | 2.5 | 2.5 | 0.0 | 0.6% | 4.1 | 2.4 | -0.4 | -42.3% |
| 18 | low flow | 4.5 | 4.5 | 0.0 | -0.1% | 9.4 | 9.5 | 0.0 | 1.6% | 14.0 | 14.0 | 0.0 | 1.6% | 10.9 | 10.3 | -0.1 | -6.4% | 2.6 | 2.6 | 0.0 | -1.4% | 4.6 | 4.6 | 0.0 | -0.1% |
| 19 | low flow | 4.4 | 4.4 | 0.0 | 0.4% | 9.6 | 9.8 | 0.0 | 3.0% | 13.3 | 13.7 | 0.0 | 4.0% | 10.0 | 9.8 | 0.0 | -4.8% | 2.8 | 2.7 | 0.0 | -1.9% | 4.9 | 5.0 | 0.0 | 2.4% |
| 20 | low flow | 4.5 | 4.4 | 0.0 | 0.1% | 9.3 | 9.6 | 0.0 | 4.3% | 13.7 | 13.9 | 0.0 | 3.3% | 10.4 | 9.7 | -0.1 | -6.7% | 2.8 | 2.8 | 0.0 | -0.1% | 4.6 | 4.8 | 0.1 | 5.0% |
| Post-closure | low flow | 5.0 | 5.0 | 0.0 | 0.4% | 10.6 | 10.9 | 0.0 | 3.9% | 15.4 | 15.7 | 0.0 | 3.4% | 11.7 | 11.5 | 0.0 | -2.7% | 3.1 | 3.0 | 0.0 | -0.8% | 5.3 | 5.5 | 0.0 | 4.0% |

Table Source: data from Rio-ASE spreadsheet: Modflow_Alternatives_Summary_08192019.xls

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# Appendix J-2: Stream Temperature Impacts on Fish Technical Memorandum

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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Technical Memorandum

# Stream Temperature Impacts on Fish:

## Chinook Salmon, Steelhead Trout, Westslope Cutthroat Trout and Bull Trout

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

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# Technical Memorandum

Subject: Stream Temperature Impacts on Fish: Chinook Salmon, Steelhead, Westslope Cuttroat Trout and Bull Trout

Date: December 2019

To: AECOM

From: Ecosystem Sciences

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## ACRONYMS, ABBREVIATIONS AND DEFINITIONS

| | |
|---|---|
| Baseline | Existing conditions in the Stibnite Gold Project area |
| ℃ | Degrees Celsius |
| EFSFSR | East Fork of the South Fork of the Salmon River |
| EIS | Environmental Impact Statement |
| EOY | End of Year |
| HUC | Hydrologic Unit Code |
| IP | Intrinsic Potential – the reach-scale stream attributes (gradient, stream size, and valley constraint) that influence availability of the fine-scale habitat features (e.g., pools, spawning gravel, and large wood) preferred by salmonids |
| Modified PRO | Alternative 2 in the Midas Stibnite Gold Project |
| MWH | Montgomery, Watson, and Harza Engineering Company |
| NHD-Plus | National Hydrography Dataset |
| NOAA | National Oceanic and Atmospheric Administration |
| NMFS | National Marine Fisheries Service |
| OM | Occupancy Model |
| RMRS | U.S. Forest Service Rocky Mountain Research Station |
| PRO | Stibnite Plan of Restoration and Operations |
| Project | Midas Stibnite Gold Project |
| Proposed Action | Alternative 1 in the Midas Stibnite Gold Project |
| Rio ASE | Rio Applied Science and Engineering Company |
| QUAL2k | River and Stream Water Quality Model |
| SPLNT | Stream and Pit Lake Network Temperature |
| TSF | Tailing Storage Facility |
| Upper EFSFSR TSF | Alternative 3 in the Midas Stibnite Gold Project |
| EPA | U.S. Environmental Protection Agency |
| Forest Service | U.S. Forest Service |

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# 1.0 INTRODUCTION

Stream temperatures are an important component to the habitat and biological processes of cold-water salmonid species. This Technical Memorandum describes the methods and results of an analysis of stream temperatures for four salmonid species that occur in the Stibnite Gold Project (project) mine site study area in the headwaters of the Upper East Fork of the South Fork of the Salmon River (EFSFSR) watershed (see Section 2.0). The four species of interest are Snake River spring-/summer-run Chinook salmon (*Oncorhynchus tshawytscha)*; Snake River Basin steelhead (*Oncorhynchus mykiss)*; westslope cutthroat trout (*Onchorhynchus clarkia lewisi*); and bull trout (*Salvelinus confluentus*). The analysis was completed for existing conditions (Baseline) and each of the three alternative proposed actions—Alternative 1 (Proposed Action), Alternative 2 (Modified PRO), and Alternative 3 (Upper EFSFSR TSF). The three individual alternatives are described in separate reports (Brown and Caldwell 2018, 2019a,b,c).

Section 2.0 provides detail about the geographic extent of the study area. Section 3.0 explains the methods that were used to analyze stream temperatures for the four salmonid species. The results are summarized in Section 4.0. The full results are included in **Appendix A**.

# 2.0 STUDY AREA

The study area for this stream temperature analysis is defined by the extent of the stream network used in the Stream and Pit Lake Network Temperature (SPLNT) modeling for each of the selected mine years in each alternative (Brown and Caldwell 2018, 2019a,b,c). The mine site study area encompasses approximately 111 square kilometers at the headwaters of the EFSFSR. The Headwaters East Fork South Fork Salmon River (HUC 12 – 170602080201) contains the mine site impact areas (**Figure 1**). Stream temperature modeling was completed for four mine site stream segments in the project mine site study area. These include:

- Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek
- Stream Segment 2: Meadow Creek and East Fork Meadow Creek
- Stream Segment 3: EFSFSR upstream of Meadow Creek
- Stream Segment 4: EFSFSR downstream of Sugar Creek.

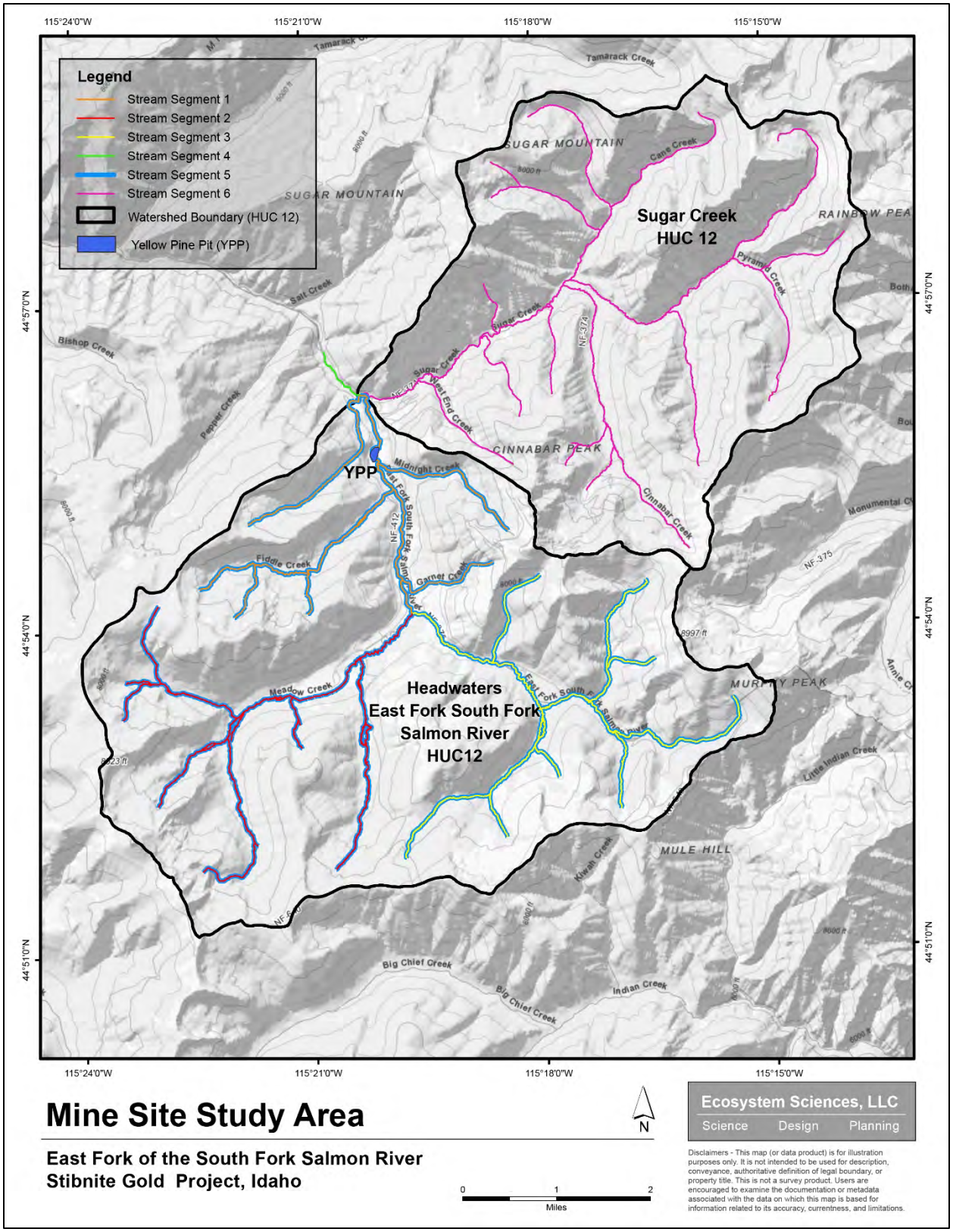



**Figure 1. Map of the Water Temperature Analysis Study Area and each Mine Site Stream Segment**

# 3.0 METHODS

Section 3.0 details the workflow that was used in the stream temperature analysis. The two general steps that were used in this analysis are described in the following narrative.

Stream temperature ranges/thresholds associated with the life stages of each of the four fish species were gathered from existing regulatory standards and the relevant literature (Montgomery Watson Harza, 2017; National Oceanic and Atmospheric Administration, National Marine Fisheries Service 2017; Poole et al. 2001; Rio Applied Science and Engineering [Rio ASE] 2018, 2019; U.S. Environmental Projection Agency [EPA] 2003). The guidance from these sources is detailed and summarized in **Tables 1** through **4**. For example, the field-observed spawning temperature for Chinook salmon, steelhead, and westslope cutthroat trout adults is 4 to 14 degrees Celsius (°C) (EPA 2003); while the appropriately functioning stream temperature range for bull trout spawning adults is 4 to 9°C (U.S. Forest Service [Forest Service] 2003).

The selected species-specific water temperature thresholds/ranges were then applied to reach-based, modeled stream temperature values from the SPLNT models (Brown and Caldwell, 2018) for existing conditions (Baseline) and each of the three alternatives (see Chapter 3 of the Environmental Impact Statement [EIS] for descriptions of the proposed action and alternatives). The length of stream in kilometers per species that fell within each selected range/threshold (or greater than a threshold water temperature) were reported by mine site stream segment. The temporal and spatial structure of the SPLNT data were detailed, and are summarized in Section 3.2.

The mine life is defined as 2 years before mining activities would commence (Year -2) and lasting for the 20 years that mining operations and reclamation are scheduled to occur. By Year 20, all streams are proposed to be recreated or enhanced, and are in their permanent locations. Four mine years were chosen by Midas Gold and their consultants as being representative of the different stages of the mine life, and were selected for the water temperature analysis: end-of-year (EOY) 6, EOY 12, EOY 18, and EOY 112. Year 112 represents the long-term reclamation environmental conditions after the closure of the mine in Year 20. Results from each alternative are compared to existing conditions results (Baseline), and a difference between the mine year of interest and Baseline values reported. This Technical Memorandum provides a quantitative measure from which to gauge how proposed actions from each alternative would affect the availability of habitat from a stream temperature perspective.

## 3.1 LIFE STAGE PERIODICITY AND STREAM TEMPERATURE THRESHOLDS

The fish species in this analysis have different thermal requirements/limitations for their various life stages. The periodicity of each life stage and the accepted stream temperature thresholds/ranges for various water temperature considerations (lethal, functioning appropriately, functioning at risk, etc.) for each species were compiled from regulatory standards and other relevant literature. Life-stage periodicity for the four salmonid species came from one of three sources (MWH 2017; NOAA NMFS 2017; Rio ASE 2018). Water temperature thresholds/ranges for the various temperature considerations came from one of four sources (EPA 2003; Forest Service 2003; Poole et al. 2001; Rio ASE 2019). **Tables 1** through **4** show life-stage periodicity and water temperature thresholds/ranges for the various temperature considerations for Chinook salmon, steelhead trout, westslope cutthroat trout, and bull trout, respectively. Each water temperature threshold/range found in the guidance documents is in a statistical unit (maximum, average, or constant daily stream temperature) that is specific to the characterized life stage. The term “constant” is defined as the midpoint between the daily maximum and the daily average water temperatures.

## 3.2 MODELED STREAM TEMPERATURE DATA

Stream temperature values and stream segment lengths were sourced from the SPLNT models produced for existing conditions (Baseline) and each of the three alternatives. The number of SPLNT reaches in each mine site stream segment varies by alternative and modeled mine year. Stream reaches that are not considered to be available fish habitat, based on the habitat limitation criteria used in the Intrinsic Potential (IP) model for Chinook salmon and steelhead and the Occupancy Model (OM) for westslope cutthroat trout and bull trout, were eliminated from this water temperature analysis (Ecosystem Sciences 2019a,b).

The SPLNT models (specifically QUAL2K modeling results) output stream temperature values representing three different conditions (Brown and Caldwell 2018): maximum weekly summer; mean August; and maximum weekly fall. For each of these conditions, minimum, mean, and maximum stream temperatures were determined. The constant stream water temperature was calculated to match the statistical unit used in water temperature thresholds/ranges found in the guidance documents. The seasonality of each life stage dictated which of the SPLNT model water temperature conditions were applied in the stream temperature analysis (see "Time Stamp Used" column in **Tables 1** through **4**). A conservative approach was used when deciding how the guidance-based stream temperature thresholds/ranges were applied to the SPLNT data (e.g., the lower water temperature value was chosen for non-optimal temperature ranges in the guidance; and maximum water temperature was used from the modeling results). In general, based on the timing of the temperature modeling, the analysis focused on examining the predicted stream temperatures in relation to the effects of increased stream temperatures on the species of interest and their life-stage periodicity, shown in **Tables 1** through **4**. For example, the guidance from the literature for adult migration blockage and delay for Chinook salmon is 21°C to 22°C (daily average). The analysis used the summer maximum time period modeling runs (end of July) for water temperatures greater than 21°C. Therefore, the results for these criteria would be the number of kilometers of stream in the analysis area that would have average water temperatures during the summer maximum period of over 21°C. The amount of available habitat also was calculated, based on access, IP modeling (Ecosystem Sciences 2019a), and Occupancy Modeling (Ecosystem Sciences 2019b). Therefore, the number of kilometers of stream analyzed varies among fish species, mine year, and alternative.

**Table 1. Life-stage Periodicity and Stream Temperature Thresholds Associated with Various Categories of Health for Chinook Salmon**

| Chinook Salmon (Spring/Summer-Run) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Species & Life Stage | Temperature Threshold or Range | | | Month | | | | | | | | | | | | | |
| | Guidance | Time Stamp Used | Temperature Used | January | February | March | April | May | June | July | August | September | October | November | December |
| **Adult Migration** | | | | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 21-22° C (Daily Average)[1] | Summer Max (Max) | >21° C | | | | | | | | | | | | | | |
| High disease risk (lab studies) | > 18-20° C (Constant)[1] | Summer Max (Constant) | >18° C | | | | | | | | | | | | | | |
| Optimal adult swimming performance | 15-19° C (Constant)[1] | Summer Max (Constant) | 15-19° C | | | | | | | | | | | | | | |
| Reduced adult swimming performance | > 20° C (Constant)[1] | Summer Max (Constant) | > 20° C | | | | | | | | | | | | | | |
| Migration blockage & delay | 21-22° C (Average)[1] | Summer Max (Average) | >21° C | | | | | | | | | | | | | | |
| Overall reduction in migration fitness due to cumulative stress | > 17-18° C (Prolonged Exposures)[1] | August (Average) | >17° C | | | | | | | | | | | | | | |
| **Adult Spawning** | | | | | | | | | | | | | | | | | |
| Optimal | 4-14° C (Constant)[1] | Fall Max (Constant) | 4-14° C | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | Fall Max (Constant) | >13° C | | | | | | | | | | | | | | |
| **Incubation/Emergence** | | | | | | | | | | | | | | | | | |
| Optimal | 6-10° C (Constant)[1] | Fall Max (Constant) | 6-10° C | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | Fall Max (Constant) | >13° C | | | | | | | | | | | | | | |
| **Juvenile Rearing** | | | | | | | | | | | | | | | | | |
| Optimal | 10-17° C (Constant)[1] | Summer Max (Constant) | 10-17° C | | | | | | | | | | | | | | |
| Optimal growth (unlimited food) | 13-20° C (Constant)[1] | Summer Max (Constant) | 13-20° C | | | | | | | | | | | | | | |
| Optimal growth (limited food) | 10-16° C (Constant)[1] | Summer Max (Constant) | 10-16° C | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 23-26° C (Daily Average)[1] | Summer Max Average | >23° C | | | | | | | | | | | | | | |
| Optimal egg incubation | 6-10° C (constant)[2] | Summer Max (Constant) | 6-10° C | | | | | | | | | | | | | | |
| Impairment to Smoltification | 12-15° C (Constant)[1] | Summer Max (Constant) | >12° C | | | | | | | | | | | | | | |
| High disease risk (lab studies) | > 18-20° C (Constant)[1] | Summer Max (Constant) | >18° C | | | | | | | | | | | | | | |
| **Juvenile Outmigration** | | | | | | | | | | | | | | | | | |
| **Common Summer Habitat Use** | | | | | | | | | | | | | | | | | |
| Optimal | 10-17° C (Constant)[2] | Summer Max (Constant) | 10-17° C | | | | | | | | | | | | | | |

Table Sources: [1] EPA 2003; [2] Poole et al. 2001; [3] Rio ASE 2019; [4] Forest Service 2003

**Table 2. Life-stage Periodicity and Stream Temperature Thresholds Associated with Various Categories of Health for Steelhead**

| Steelhead Trout (Summer-Run) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Life Stage & Temperature Consideration | Temperature Threshold or Range | | | Month | | | | | | | | | | | | | |
| | Guidance | Time Stamp Used | Temperature Used | January | February | March | April | May | June | July | August | September | October | November | December |
| **Adult Migration** | | | | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 21-22° C (Daily Average)[1] | ND | ND | | | | | | | | | | | | | | |
| High Disease risk (lab studies) | > 18-20° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Optimal Adult Swimming Performance | 15-19° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Reduced Adult Swimming Performance | > 20° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Migration blockage & delay | 21-22° C (Average)[1] | ND | ND | | | | | | | | | | | | | | |
| Overall reduction in migration fitness due to cumulative stress | > 17-18° C (Prolonged Exposures)[1] | ND | ND | | | | | | | | | | | | | | |
| **Adult Spawning** | | | | | | | | | | | | | | | | | |
| Optimal | 4-14° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| **Incubation/Emergence** | | | | | | | | | | | | | | | | | |
| Optimal | 6-10° C (Constant)[1] | Summer Max (Constant) | 6-10° C | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | Summer Max (Constant) | >13° C | | | | | | | | | | | | | | |
| Optimal egg incubation | 6-10° C (Constant)[2] | Summer Max (Constant) | 6-10° C | | | | | | | | | | | | | | |
| **Juvenile Rearing** | | | | | | | | | | | | | | | | | |
| Optimal | 10-17° C (Constant)[1] | Summer Max (Constant) | 10-17° C | | | | | | | | | | | | | | |
| Optimal Growth (unlimited food) | 13-20° C (Constant)[1] | Summer Max (Constant) | 13-20° C | | | | | | | | | | | | | | |
| Optimal Growth (limited food) | 10-16° C (Constant)[1] | Summer Max (Constant) | 10-16° C | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 23-26° C (Daily Average)[1] | Summer Max (Average) | >23° C | | | | | | | | | | | | | | |
| Impairment to Smoltification | >12° C (Constant)[1] | Summer Max (Constant) | >12° C | | | | | | | | | | | | | | |
| High Disease risk (lab studies) | > 18-20° C (Constant)[1] | Summer Max (Constant) | >18° C | | | | | | | | | | | | | | |
| **Juvenile Outmigration** | | | | | | | | | | | | | | | | | |
| **Common Summer Habitat Use** | | | | | | | | | | | | | | | | | |
| Optimal | 10-17° C (Constant)[2] | Summer Max (Constant) | 10-17° C | | | | | | | | | | | | | | |

Table Sources: [1] EPA 2003; [2] Poole et al. 2001; [3] Rio ASE 2019; [4] Forest Service 2003

**Table 3. Life-stage Periodicity and Stream Temperature Thresholds for Various Categories of Health for Westslope Cutthroat Trout**

| Westlope Cutthroat Trout | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Life Stage & Temperature Consideration | Temperature Threshold or Range | | | Month | | | | | | | | | | | | | |
| | Guidance | Time Stamp Used | Temperature Used | January | February | March | April | May | June | July | August | September | October | November | December |
| **Adult Migration** | | | | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 21-22° C (Daily Average)[1] | ND | ND | | | | | | | | | | | | | | |
| High disease risk (lab studies) | > 18-20° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Optimal adult swimming performance | 15-19° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Reduced adult swimming performance | > 20° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Migration blockage & delay | 21-22° C (Average)[1] | ND | ND | | | | | | | | | | | | | | |
| Overall reduction in migration fitness due to cumulative stress | > 17-18° C (Prolonged Exposures)[1] | ND | ND | | | | | | | | | | | | | | |
| **Adult Spawning** | | | | | | | | | | | | | | | | | |
| Optimal | 4-14° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | ND | ND | | | | | | | | | | | | | | |
| **Incubation/Emergence** | | | | | | | | | | | | | | | | | |
| Optimal | 6-10° C (Constant)[1] | Summer Max (Constant) | 6-10° C | | | | | | | | | | | | | | |
| Reduced visibility of gametes in adults | >13° C (Constant)[1] | Summer Max (Constant) | >13° C | | | | | | | | | | | | | | |
| **Juvenile Rearing** | | | | | | | | | | | | | | | | | |
| Optimal | <12° C (7-Day Max)[3] | Summer Max (Max) | <12° C | | | | | | | | | | | | | | |
| Functioning at risk | 12-15° C (7-Day Max)[3] | Summer Max (Max) | 12-15° C | | | | | | | | | | | | | | |
| Unacceptable risk | >15° C (7-Day Max)[3] | Summer Max (Max) | >15° C | | | | | | | | | | | | | | |
| Optimal growth (unlimited food) | 13-20° C (Constant)[1] | Summer Max (Constant) | 13-20° C | | | | | | | | | | | | | | |
| Optimal growth (limited food) | 10-16° C (Constant)[1] | Summer Max (Constant) | 10-16° C | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 23-26° C (Daily Average)[1] | Summer Max (Average) | >23° C | | | | | | | | | | | | | | |
| Impairment to smoltification | 12-15° C (Constant)[1] | Summer Max (Constant) | >12° C | | | | | | | | | | | | | | |
| High disease risk (lab studies) | > 18-20° C (Constant)[1] | Summer Max (Constant) | >18° C | | | | | | | | | | | | | | |
| **Emigration** | | | | | | | | | | | | | | | | | |

Table Sources: [1] EPA 2003; [2] Poole et al. 2001; [3] Rio ASE 2019; [4] Forest Service 2003

**Table 4. Life-stage Periodicity and Stream Temperature Thresholds Associated with Various Categories of Health for Bull Trout**

| Bull Trout | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Life Stage & Temperature Consideration | Temperature Threshold or Range | | | Month | | | | | | | | | | | | | |
| | Guidance | Time Stamp Used | Temperature Used | January | February | March | April | May | June | July | August | September | October | November | December |
| **Adult Migration** | | | | | | | | | | | | | | | | | |
| **Adult Spawning** | | | | | | | | | | | | | | | | | |
| Functioning appropriately | 4-9° C Fall Max (Constant)[4] | Fall Max (Constant) | 4-9° C | | | | | | | | | | | | | | |
| Functioning at risk | 9-10° C Fall Max (Constant)[4] | Fall Max (Constant) | 9-10° C | | | | | | | | | | | | | | |
| Unacceptable risk | <4 & >10° C Fall Max (Constant)[4] | Fall Max (Constant) | >10° C | | | | | | | | | | | | | | |
| Spawning Initiation | <9° C (Constant)[1] | Fall Max (Constant) | <9° C | | | | | | | | | | | | | | |
| Temp at which Peak Spawning Occurs | <7° C (Constant)[1] | Fall Max (Constant) | <7° C | | | | | | | | | | | | | | |
| **Incubation/Emergence** | | | | | | | | | | | | | | | | | |
| Functioning appropriately | 2-5° C Fall Max (Constant)[4] | Fall Max (Constant) | 2-5° C | | | | | | | | | | | | | | |
| Functioning at risk | <2 & 5-6° C Fall Max (Constant)[4] | Fall Max (Constant) | 5-6° C | | | | | | | | | | | | | | |
| Unacceptable risk | <1 & >6° C Fall Max (Constant)[4] | Fall Max (Constant) | >6° C | | | | | | | | | | | | | | |
| Substantially Reduced Egg Survival and Size | 6-8° C (Constant)[1] | Fall Max (Constant) | 6-8° C | | | | | | | | | | | | | | |
| Optimal egg incubation | 2-6° C (Constant)[1] | Fall Max (Constant) | 2-6° C | | | | | | | | | | | | | | |
| **Juvenile Rearing** | | | | | | | | | | | | | | | | | |
| Functioning appropriately | 4-12° C Summer Max (Constant)[4] | Summer Max (Constant) | 4-12° C | | | | | | | | | | | | | | |
| Functioning at risk | <4 & 12-15° C Summer Max (Constant)[4] | Summer Max (Constant) | 12-15° C | | | | | | | | | | | | | | |
| Unacceptable risk | >15° C Summer Max (Constant)[4] | Summer Max (Constant) | >15° C | | | | | | | | | | | | | | |
| Lethal (1 week exposure) | 22-23° C (Constant)[1] | Summer Max (Constant) | >22° C | | | | | | | | | | | | | | |
| Optimal Growth (unlimited food) | 12-16° C (Constant)[1] | Summer Max (Constant) | 12-16° C | | | | | | | | | | | | | | |
| Optimal Growth (limited food) | 8-12° C (Constant)[1] | Summer Max (Constant) | 8-12° C | | | | | | | | | | | | | | |
| Optimal temp to occur in field | 12-13° C (Daily Max)[1] | Summer Max (Average) | 12-13° C | | | | | | | | | | | | | | |
| Competition Disadvantage | >12° C (Constant)[3] | Summer Max (Constant) | >12° C | | | | | | | | | | | | | | |
| **Emigration** | | | | | | | | | | | | | | | | | |
| Spawning Initiation | <9° C (Constant)[1] | Summer Max (Constant) | <9° C | | | | | | | | | | | | | | |
| **Common Summer Habitat Use** | | | | | | | | | | | | | | | | | |
| Spawning Initiation | 6-12° C (Constant)[2] | Summer Max (Constant) | 6-12° C | | | | | | | | | | | | | | |

Table Sources: [1] EPA 2003; [2] Poole et al. 2001; [3] Rio ASE 2019; [4] Forest Service 2003

## 3.3 INTERPRETING MODELED STREAM TEMPERATURES AS THEY RELATE TO CLIMATE CHANGE

The SPLNT models (Brown and Caldwell 2018) for existing conditions and each alternative (Brown and Caldwell 2019 a,b,c) do not account for changes to stream temperatures caused by changing climate conditions. This means that modeled future water temperatures (e.g., mine year 112) assume that without the proposed action, stream temperatures will be similar to the historic water temperature data on which the model was calibrated (Brown and Caldwell 2018). In an effort to inform the interpretation of stream modeling results in respect to the possibility of changing conditions into this analysis, NorWeST-modeled stream temperatures are presented (Isaak et al. 2016) alongside the SPLNT stream temperatures (**Table 5**).

The NorWeST model, produced by the U.S. Forest Service Rocky Mountain Research Station (RMRS), provides a variety of scenario-based parameters that represent future stream temperatures for National Hydrography Dataset (NHD-Plus) reaches across the western United States. The stream temperatures from the most downstream NHD-Plus reach in each stream segment and the equivalent SPLNT reach water temperatures are presented in **Table 5**. Mean August stream temperature is used in both datasets.

Of the NorWeST parameters, modeled stream temperatures for 1993-2011 and 2015 are the most appropriate for comparison to existing condition (Baseline) SPLNT modeled stream temperatures. There are two parameters in the NorWeST dataset that predict stream temperatures based on future scenarios; they are represented by the A1B warming trajectories 2040 (2030-2059), and 2080 (2070-2099). There are differences between the 1993-2011 or 2015 stream temperatures and the future scenario stream temperatures in the NorWeSTmodeled outputs. The timeline of the proposed project is unknown, but if the proposed action or one of the alternatives was to be implemented in 2025, then Year 20 would happen in 2042, well within the NorWeST 2045 (2030-2059) prediction timeframe. Year 112 is outside of the predicted timeframes the NorWeST models provide. These factors should be considered when interpreting modeled future temperatures, especially the further into the future the modeled water temperatures represent.

**Table 5. Comparison of Baseline SPLNT Model Temperatures with NorWeST Model Stream Temperatures for Multiple Timeframes**

| Stream Segment Number | Baseline SPLNT Model | | NorWeST Model Stream Temperature (°C) | | | |
|---|---|---|---|---|---|---|
| | SPLNT Reach | Modeled Stream Temperature (°C) | 1993-2011 | 2015 | 2030-2059 | 2070-2099 |
| 1 | YPPLakeHeadwater | 11.72 | 11.57 | 12.18 | 12.86 | 13.7 |
| 2 | MC10 | 11.57 | 10.38 | 10.99 | 11.64 | 12.46 |
| 3 | EFSFSR4_atRabbitCreek | 9.24 | 9.95 | 10.56 | 11.2 | 12.01 |
| 4 | SC7 | 10.64 | 10.83 | 11.43 | 12.1 | 12.92 |

# 4.0 RESULTS

## 4.1 SUMMARY

In general, the impacts associated with the proposed project on stream temperatures would be an increase in stream temperatures in various reaches in the mine site study area. Fish would be affected by these water temperature changes. In general, bull trout and Chinook salmon would be the most negatively affected species, because they migrate and spawn in the summer and fall, when lower flows and higher air temperatures would amplify the impacts of the project on stream temperatures. Steelhead would have the most positive benefits, because their amount if habitat would increase from baseline.

The results of the stream temperature analysis (in number of stream kilometers in each threshold temperature consideration derived from the literature) are presented for all four stream segments combined (1 through 4) by alternative and by species in **Tables 6** through **17**. Results by stream segment for each species per alternative are provided in Appendix A. A brief discussion of selected results for the stream segments is presented herein; refer to **Appendix A** for detailed results. It is important to understand that some of the temperature criteria can be viewed as positive if there are increased stream kilometers that fall within them, while increases in kilometers within other thresholds can be viewed as negative for that species.

Note that the guidance-based temperature thresholds and their corresponding criteria for each life stage/temperature consideration used in the analysis are presented in **Tables 1** through **4**. In general, a more conservative approach to analyzing the temperatures was used (the highest modeled temperature within the appropriate timeframe). Therefore, the interpretation of the results in **Tables 6** through **17** and the tables in **Appendix A** must be accompanied by an understanding of the criteria, timestamps, and applied temperature thresholds that are presented in **Tables 1** through **4.** Further, the change in available habitat found at the bottom of the results tables in **Appendix A** is important to consider when interpreting stream lengths presented for any species, life stage, or mine year.

## 4.2 ALTERNATIVE ONE

The results of the stream temperature analysis (in number of stream kilometers within each threshold temperature consideration derived from the literature) for all four stream segments combined are summarize by species in the tables below (**Tables 6** through **9**) under the proposed action (Alternative 1). Selected results by stream segments are discussed in the following the tables; the full results by stream segment are contained in **Appendix A**.

**Table 6. Alternative 1: All Stream Segments – Chinook salmon**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometer) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 1.83 | 1.83 | 3.06 | 3.06 | 3.99 | 3.99 | 2.65 | 2.65 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 3.66 | 3.66 | 0.86 | 0.86 |
| Optimal Adult Swimming Performance | 2.44 | 6.20 | 3.76 | 6.84 | 4.4 | 5.09 | 2.65 | 5.96 | 3.52 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0.87 | 0.87 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 16.72 | 9.36 | -7.36 | 11.50 | -5.22 | 9.97 | -6.75 | 11.09 | -5.63 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 1.98 | 0.47 | 0.86 | -0.65 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 3.08 | -1.91 | 2.88 | -2.11 | 2.88 | -2.11 | 7.57 | 2.58 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 1.98 | 0.47 | 0.86 | -0.65 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 16.72 | 9.36 | -7.36 | 8.98 | -7.74 | 5.65 | -11.07 | 7.67 | -9.05 |
| Optimal Growth (unlimited food) | 10.23 | 6.20 | -4.03 | 7.50 | -2.73 | 5.95 | -4.28 | 6.82 | -3.41 |
| Optimal Growth (limited food) | 15.22 | 6.54 | -8.68 | 7.83 | -7.39 | 5.65 | -9.57 | 5.65 | -9.57 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 11.13 | 6.78 | -4.35 | 8.08 | -3.05 | 7.40 | -3.73 | 7.40 | -3.73 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 3.66 | 3.66 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 16.72 | 4.37 | -12.35 | 3.10 | -13.62 | 5.65 | -11.07 | 7.67 | -9.05 |
| **Total Available Habitat** | **16.72** | **8.03** | **-8.69** | **12.49** | **-4.23** | **12.70** | **-4.02** | **12.70** | **-4.02** |

**Table 7. Alternative 1: All Stream Segments – Steelhead**

| Steelhead | Stream Length within Threshold (kilometer) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 2.13 | 6.2 | 4.07 | 7.5 | 5.37 | 6.82 | 4.69 | 6.82 | 4.69 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 2.13 | 9.36 | 7.23 | 8.98 | 6.85 | 5.65 | 3.52 | 7.67 | 5.54 |
| Optimal Growth (unlimited food) | 2.13 | 6.2 | 4.07 | 7.5 | 5.37 | 5.95 | 3.82 | 6.82 | 4.69 |
| Optimal Growth (limited food) | 2.13 | 6.54 | 4.41 | 7.83 | 5.7 | 5.65 | 3.52 | 5.65 | 3.52 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 2.13 | 6.78 | 4.65 | 8.08 | 5.95 | 7.4 | 5.27 | 7.4 | 5.27 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 3.66 | 3.66 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 2.13 | 5.88 | 3.75 | 8.98 | 6.85 | 6.31 | 4.18 | 7.67 | 5.54 |
| **Total Available Habitat** | **2.13** | **11.19** | **9.06** | **12.49** | **10.36** | **12.7** | **10.57** | **12.7** | **10.57** |

**Table 8. Alternative 1: All Stream Segments – Westslope Cutthroat Trout**

| Cutthroat Trout | Stream Length within Threshold (kilometer) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.52 | -0.33 | 0.52 | -0.33 | 0.52 | -0.33 |
| Reduced visibility of gametes in adults | 12.5 | 6.34 | -6.16 | 11.14 | -1.36 | 20.12 | 7.62 | 16.71 | 4.21 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5.01 | 2.29 | -2.72 | 2.29 | -2.72 | 2.37 | -2.64 | 2.37 | -2.64 |
| Functioning at risk | 15.1 | 7.32 | -7.78 | 7.32 | -7.78 | 5.81 | -9.29 | 8.09 | -7.01 |
| Unacceptable risk | 8.87 | 6.34 | -2.53 | 10.18 | 1.31 | 20.12 | 11.25 | 17.84 | 8.97 |
| Optimal Growth (unlimited food) | 12.5 | 6.34 | -6.16 | 11.14 | -1.36 | 18.61 | 6.11 | 16.71 | 4.21 |
| Optimal Growth (limited food) | 26.62 | 10.77 | -15.85 | 14.5 | -12.12 | 14.43 | -12.19 | 16.21 | -10.41 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 15.33 | 7.88 | -7.45 | 11.72 | -3.61 | 20.7 | 5.37 | 20.7 | 5.37 |
| High Disease risk (lab studies) | 0 | 0.63 | 0.63 | 0.63 | 0.63 | 7.37 | 7.37 | 1.75 | 1.75 |
| **Total Available Habitat** | **28.98** | **15.95** | **-13.03** | **19.79** | **-9.19** | **28.3** | **-0.68** | **28.3** | **-0.68** |

**Table 9. Alternative 1: All Stream Segments – Bull Trout**

| Bull Trout | Stream Length within Threshold (kilometer) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 1.61 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 8.69 | 3.08 | -2.25 | 5.45 | 0.12 | 3.67 | -1.66 | 4.41 | -0.92 |
| Unacceptable risk | 18.69 | 10.25 | -12.42 | 11.72 | -11.56 | 12.42 | -12.55 | 11.68 | -13.29 |
| Spawning Initiation | 1.61 | 0 | -1.61 | 3.23 | 1.62 | 0 | -1.61 | 0 | -1.61 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 28.99 | 13.33 | -15.16 | 17.17 | -11.32 | 16.09 | -12.4 | 16.09 | -12.4 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 13.66 | 6.41 | -7.25 | 6.41 | -7.25 | 5.86 | -7.8 | 5.86 | -7.8 |
| Functioning at risk | 12.89 | 0.83 | -12.06 | 3.81 | -9.08 | 1.61 | -11.75 | 2.58 | -11.75 |
| Unacceptable risk | 2.44 | 6.09 | 3.65 | 6.95 | 4.51 | 8.61 | 0.37 | 7.65 | 0.37 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 13.82 | 2.63 | -11.19 | 5.99 | -7.83 | 2.27 | -12.68 | 4.05 | -11.87 |
| Optimal Growth (limited food) | 13.66 | 6.41 | -7.25 | 6.41 | -7.25 | 5.86 | -7.8 | 10.23 | -7.8 |
| Optimal temp to occur in field | 4.03 | 3.87 | -0.16 | 3.73 | -0.3 | 10.23 | -2.97 | 1.53 | -2.5 |
| Competition Disadvantage | 15.33 | 6.92 | -8.41 | 10.76 | -4.57 | 3.95 | -11.38 | 3.95 | -11.38 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 8.66 | 6.41 | -2.25 | 6.41 | -2.25 | 5.86 | -2.8 | 5.86 | -2.8 |
| **Total Available Habitat** | 28.99 | 13.33 | **-15.66** | 17.17 | **-11.82** | 16.09 | **-12.9** | 16.09 | **-12.9** |

#### 4.2.1 Stream Segment 1: EFSFSR and tributaries from Sugar Creek upstream to Meadow Creek

- There would be an increase in kilometers of stream in the field-observed spawning temperature range for Chinook salmon after Year 12. There also would be more kilometers of stream in the optimal water temperature range for incubation/emergence after Year 12. However, more kilometers of stream would reach water temperatures that are considered lethal over prolonged timeframes[1]. Stream length in the optimal water temperature range for juvenile rearing would decline from 4.26 kilometers to 0.66 kilometer by Year 18, but would be 2.43 kilometers by Year 112.
- Steelhead would have increased stream length in the optimal temperature range for adult common summer use in Years 12 and 112. Stream length in the optimal water temperature range for juvenile rearing would increase in all years except Year 18.
- Cutthroat would have increased stream kilometers functioning at an unacceptable risk water temperature range for juvenile rearing, and a corresponding decrease in stream length in the functioning appropriately/functioning at risk water temperature ranges for juvenile rearing.

#### 4.2.2 Stream Segment 2: Meadow Creek and East Fork Meadow Creek

- For Chinook salmon at Baseline, all 6.46 kilometers of available habitat are in the field-observed spawning water temperature range. During mine operations, this would drop to between zero and 0.84 kilometer, depending on the mine year. By EOY 112, there would be 1.26 kilometers of stream in the field-observed spawning water temperature range. Incubation and emergence temperatures are not at optimal temperatures at Baseline, and would remain outside this range. Temperatures for juvenile rearing would change from 6.46 kilometers of stream in the optimal water temperature range at Baseline, to 0 to 0.25 kilometer during mine operations and post-closure.
- Steelhead would have increased habitat from Baseline conditions.
- For westslope cutthroat trout, there would be an increase in stream kilometers in the functioning at unacceptable risk water temperature range. There also would be a decrease in stream kilometers in the functioning appropriately/functioning at risk water temperature ranges.
- Bull trout would have fewer kilometers of available habitat; however, much of the existing habitat is in the functioning at unacceptable risk water temperature range for spawning and emergence.

#### 4.2.3 Stream Segment 3: EFSFSR Upstream of Meadow Creek

- Largely unaffected by proposed action for all species, except for an increase in steelhead access to habitat.

#### 4.2.4 Stream Segment 4: EFSFSR Downstream of Sugar Creek

- This is a short reach of approximately 1 kilometer that would experience few changes from Baseline for all species.

[1] The lethal temperature criterion for Chinook is set for a 1-week exposure to water temperatures 21 to 22°C. If the maximum water temperature in a day or week reaches that temperature, it does not mean it would be lethal to fish. However, it is a measure of stress on fish.

## 4.3 ALTERNATIVE 2

The results of the stream temperature analysis (in number of stream kilometers in each threshold temperature consideration derived from the literature) for all four stream segments combined are summarized by species in the tables below (**Tables 10** through **13**) under the Modified Proposed Action (Alternative 2). Selected results by stream segments are discussed in the following the tables; the full results by stream segment are contained in **Appendix A**.

In general, impacts associated with Alternative 2 are similar to those under Alternative 1, with small changes in stream lengths that fall within various water temperature considerations.

**Table 10. Alternative 2: All Stream Segments – Chinook salmon**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0 | 0 | 1.23 | 1.23 | 1.83 | 1.83 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| Optimal Adult Swimming Performance | 2.44 | 3.54 | 1.1 | 6.2 | 3.76 | 7.13 | 4.69 | 7.13 | 4.69 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field-Observed Spawning Temp | 16.72 | 11.19 | -5.53 | 12.96 | -3.76 | 9.49 | -7.23 | 12.12 | -4.6 |
| Reduced visibility of gametes in adults | 1.51 | 0.72 | -0.79 | 3.28 | 1.77 | 6.47 | 4.96 | 1.56 | 0.05 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 4.41 | -0.58 | 3.08 | -1.91 | 4.41 | -0.58 | 4.41 | -0.58 |
| Reduced visibility of gametes in adults | 1.51 | 0.72 | -0.79 | 3.28 | 1.77 | 6.47 | 4.96 | 1.56 | 0.05 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 16.72 | 11.19 | -5.53 | 11.28 | -5.44 | 6.54 | -10.18 | 10.29 | -6.43 |
| Optimal Growth (unlimited food) | 10.23 | 5.93 | -4.3 | 7.7 | -2.53 | 7.13 | -3.1 | 7.13 | -3.1 |
| Optimal Growth (limited food) | 15.22 | 10.58 | -4.64 | 10.19 | -5.03 | 4.99 | -10.23 | 4.99 | -10.23 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 11.13 | 6.78 | -4.35 | 8.55 | -2.58 | 7.71 | -3.42 | 7.71 | -3.42 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 16.72 | 11.19 | -5.53 | 3.1 | -13.62 | 6.54 | -10.18 | 10.29 | -6.43 |
| **Total Available Habitat** | **16.72** | **11.19** | **-5.53** | **12.96** | **-3.76** | **13.5** | **-3.22** | **12.12** | **-4.6** |

**Table 11. Alternative 2: All Stream Segments – Steelhead**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 2.13 | 5.93 | 3.8 | 7.7 | 5.57 | 7.13 | 5.00 | 7.13 | 5.00 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 2.13 | 11.19 | 9.06 | 11.28 | 9.15 | 6.54 | 4.41 | 10.29 | 8.16 |
| Optimal Growth (unlimited food) | 2.13 | 5.93 | 3.8 | 7.7 | 5.57 | 7.13 | 5.00 | 7.13 | 5.00 |
| Optimal Growth (limited food) | 2.13 | 10.58 | 8.45 | 10.19 | 8.06 | 4.99 | 2.86 | 4.99 | 2.86 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 2.13 | 6.78 | 4.65 | 8.55 | 6.42 | 7.71 | 5.58 | 7.71 | 5.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0.00 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 2.13 | 7.71 | 5.58 | 11.28 | 9.15 | 6.54 | 4.41 | 9.11 | 6.98 |
| **Total Available Habitat** | 2.13 | 11.19 | **9.06** | 12.96 | **10.83** | 12.12 | **9.99** | 12.12 | **9.99** |

**Table 12. Alternative 2: All Stream Segments – Westslope Cutthroat Trout**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field-Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.52 | -0.33 | 0.52 | -0.33 | 0.52 | -0.33 |
| Reduced visibility of gametes in adults | 12.5 | 5.93 | -6.57 | 10.27 | -2.23 | 18.51 | 6.01 | 15.1 | 2.6 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5.01 | 2.54 | -2.47 | 2.29 | -2.72 | 2.37 | -2.64 | 2.37 | -2.64 |
| Functioning at risk | 15.1 | 7.59 | -7.51 | 7.59 | -7.51 | 6.76 | -8.34 | 9.04 | -6.06 |
| Unacceptable risk | 8.87 | 5.93 | -2.94 | 10.27 | 1.4 | 18.51 | 9.64 | 16.23 | 7.36 |
| Optimal Growth (unlimited food) | 12.5 | 5.93 | -6.57 | 10.27 | -2.23 | 18.51 | 6.01 | 15.1 | 2.6 |
| Optimal Growth (limited food) | 26.62 | 14.56 | -12.06 | 16.86 | -9.76 | 15.5 | -11.12 | 17.31 | -9.31 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 15.33 | 7.74 | -7.59 | 12.08 | -3.25 | 19.49 | 4.16 | 19.49 | 4.16 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| **Total Available Habitat** | 28.98 | 16.06 | **-12.92** | 20.15 | **-8.83** | 27.64 | **-1.34** | 27.64 | **-1.34** |

**Table 13. Alternative 2: All Stream Segments – Bull Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 1.61 | 0 | -0.76 | 0 | 0.13 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 8.69 | 4.66 | -0.92 | 3.08 | 1.4 | 4.41 | -0.92 | 4.41 | -0.92 |
| Unacceptable risk | 18.69 | 8.78 | -13.39 | 2.59 | 1.95 | 11.71 | -6.98 | 11.71 | -6.98 |
| Spawning Initiation | 1.61 | 0 | -1.61 | 0 | -0.72 | 0 | -1.61 | 0 | -1.61 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 28.99 | 13.44 | -14.8 | 15.67 | 1.1 | 16.12 | -12.37 | 16.12 | -12.37 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 13.66 | 6.66 | -7.25 | 6.41 | -7.25 | 6.41 | -7.25 | 6.41 | -7.25 |
| Functioning at risk | 12.89 | 3.49 | -10.06 | 3.06 | -9.83 | 2.54 | -10.35 | 3.04 | -9.85 |
| Unacceptable risk | 2.44 | 3.29 | 2.01 | 6.2 | 3.76 | 7.17 | 4.73 | 6.67 | 4.23 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 13.82 | 6.17 | -9.72 | 6.49 | -7.33 | 3.68 | -11.03 | 3.04 | -10.78 |
| Optimal Growth (limited food) | 13.66 | 6.66 | -7.25 | 6.41 | -7.25 | 6.41 | -7.25 | 6.41 | -7.25 |
| Optimal temp to occur in field | 4.03 | 3.29 | -0.33 | 4.05 | 0.02 | 1.86 | -3.06 | 0 | -4.03 |
| Competition Disadvantage | 15.33 | 6.78 | -8.05 | 9.26 | -6.07 | 9.71 | -5.62 | 9.71 | -5.62 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 8.66 | 6.41 | -2.25 | 6.41 | -2.25 | 6.41 | -2.25 | 6.41 | -2.25 |
| **Total Available Habitat** | 28.99 | 13.44 | **-15.55** | 18.42 | **-10.57** | 16.12 | **-12.87** | 16.12 | **-12.87** |

#### 4.3.1 Stream Segment 1: EFSFSR and tributaries from Sugar Creek upstream to Meadow Creek

- Effects on Chinook salmon would be similar to Alternative 1; however, summer maximum water temperatures would only reach the lethal threshold in 1.23 kilometers in 1 year (EOY 12)—a reduction from those predicted for Alternative 1. There also would be an increase in stream kilometers in the optimal summer habitat use water temperature range. Fewer kilometers of stream would reach temperatures that are considered lethal over prolonged timeframes (this does not mean temperatures would be lethal to Chinook salmon[2]) than under Alternative 1.
- Steelhead impacts would be similar to Alternative 1, with a few variations in stream lengths in various criteria.
- Cutthroat trout would have increased stream kilometers functioning at unacceptable risk water temperature range for juvenile rearing (similar to Alternative 1).

#### 4.3.2 Stream Segment 2: Meadow Creek and East Fork Meadow Creek

- In general, impacts are similar to Alternative 1, but with fewer stream kilometers in negative criteria thresholds, and more kilometers of streams in positive water temperature consideration thresholds.

#### 4.3.3 Stream Segment 3: EFSFSR Upstream of Meadow Creek

- Effects would be similar to Alternative 1. This segment would be largely unaffected by the proposed action for all species, except the increase in steelhead access to habitat.

#### 4.3.4 Stream Segment 4: EFSFSR Downstream of Sugar Creek

- This is a short reach of approximately 1 kilometer that would experience few changes from baseline for all species.

## 4.4 ALTERNATIVE 3

The results of the stream temperature analysis (in number of stream kilometers in each threshold temperature consideration derived from the literature) for all four stream segments combined are summarized by species in the tables below (**Tables 10** through **13**) under the Upper East Fork TSF/DRSF alternative (Alternative 3). Selected results by stream segments are discussed in the following the tables; the full results by stream segment are provided in **Appendix A**.

In general, results are similar to Alternative 1 below the confluence of Meadow Creek and the EFSFSR confluence (Stream Segments 1 and 4). Above the confluence, the impacts are quite different from the other alternatives, because impacts to Meadow Creek (Stream Segment 2) are lower, and impacts the EFSFSR above Meadow Creek are greater than Alternatives 1 or 2.

[2] The lethal water temperature criteria for Chinook salmon is set to a 1-week exposure to temperatures 21°C to 22°C. If the maximum water temperature in a day or week reaches that temperature, it does not mean it would be lethal to fish. However, it is a measure of stress on fish.

**Table 14. Alternative 3: All Stream Segments – Chinook salmon**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 3.84 | 3.84 | 4.18 | 4.18 | 6.49 | 6.49 | 6.49 | 6.49 |
| High Disease risk (lab studies) | 0 | 0.00 | 0 | 2.15 | 2.15 | 6.63 | 6.63 | 5.70 | 5.7 |
| Optimal Adult Swimming Performance | 2.44 | 7.79 | 5.35 | 9.15 | 6.71 | 2.17 | -0.27 | 6.17 | 3.73 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0.39 | 0.39 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field-Observed Spawning Temp | 16.72 | 10.49 | -6.23 | 12.57 | -4.15 | 4.84 | -11.88 | 10.61 | -6.11 |
| Reduced visibility of gametes in adults | 1.51 | 4.76 | 3.25 | 6.67 | 5.16 | 7.91 | 6.4 | 6.32 | 4.81 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 0.00 | -4.99 | 0.00 | -4.99 | 0.00 | -4.99 | 0.00 | -4.99 |
| Reduced visibility of gametes in adults | 1.51 | 4.76 | 3.25 | 6.67 | 5.16 | 7.91 | 6.4 | 6.32 | 4.81 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 16.72 | 7.01 | -9.71 | 7.01 | -9.71 | 5.59 | -11.13 | 5.59 | -11.13 |
| Optimal Growth (unlimited food) | 10.23 | 10.31 | 0.08 | 11.67 | 1.44 | 10.93 | 0.7 | 11.32 | 1.09 |
| Optimal Growth (limited food) | 15.22 | 4.97 | -10.25 | 4.08 | -11.14 | 4.08 | -11.14 | 4.08 | -11.14 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 11.13 | 11.21 | 0.08 | 12.57 | 1.44 | 12.22 | 1.09 | 12.22 | 1.09 |
| High Disease risk (lab studies) | 0 | 0.00 | 0 | 2.15 | 2.15 | 6.63 | 6.63 | 5.70 | 5.7 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 16.72 | 7.01 | -9.71 | 3.10 | -13.62 | 5.59 | -11.13 | 5.59 | -11.13 |
| **Total Available Habitat** | **16.72** | **11.21** | **-5.51** | **12.57** | **-4.15** | **12.22** | **-4.5** | **12.22** | **-4.5** |

**Table 15. Alternative 3: All Stream Segments – Steelhead**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 2.13 | 10.31 | 8.18 | 11.67 | 9.54 | 11.32 | 9.19 | 11.32 | 9.19 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 2.13 | 7.01 | 4.88 | 7.01 | 4.88 | 5.59 | 3.46 | 5.59 | 3.46 |
| Optimal Growth (unlimited food) | 2.13 | 10.31 | 8.18 | 11.67 | 9.54 | 4.69 | 2.56 | 5.62 | 3.49 |
| Optimal Growth (limited food) | 2.13 | 4.97 | 2.84 | 4.08 | 1.95 | 4.08 | 1.95 | 4.08 | 1.95 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 7.52 | 8 | 7.52 | 8 |
| Impairment to Smoltification | 2.13 | 11.21 | 9.08 | 12.57 | 10.44 | 12.22 | 10.09 | 12.22 | 10.09 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.15 | 2.15 | 6.63 | 6.63 | 5.7 | 5.70 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 2.13 | 7.01 | 4.88 | 7.01 | 4.88 | 5.59 | 3.46 | 5.59 | 3.46 |
| **Total Available Habitat** | **2.13** | **11.21** | **9.08** | **12.57** | **10.44** | **12.22** | **10.09** | **12.22** | **10.09** |

**Table 16. Alternative 3: All Stream Segments – Westslope Cutthroat Trout**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field-Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.85 | 0 | 0.52 | -0.33 | 0.52 | -0.33 |
| Reduced visibility of gametes in adults | 12.5 | 16.37 | 3.87 | 20.05 | 7.55 | 26.12 | 13.62 | 26.12 | 13.62 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5.01 | 2.48 | -2.53 | 2.44 | -2.57 | 2.53 | -2.48 | 2.53 | -2.48 |
| Functioning at risk | 15.1 | 8.2 | -6.9 | 8.2 | -6.9 | 6.94 | -8.16 | 6.94 | -8.16 |
| Unacceptable risk | 8.87 | 14.63 | 5.76 | 18.31 | 9.44 | 24.56 | 15.69 | 24.56 | 15.69 |
| Optimal Growth (unlimited food) | 12.5 | 16.37 | 3.87 | 20.05 | 7.55 | 16.52 | 4.02 | 16.52 | 4.02 |
| Optimal Growth (limited food) | 26.62 | 18.57 | -8.05 | 19.75 | -6.87 | 0 | -26.62 | 0 | -26.62 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 15.33 | 18.65 | 3.32 | 22.33 | 7 | 27.2 | 11.87 | 27.2 | 11.87 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.4 | 2.4 | 9.6 | 9.6 | 9.6 | 9.6 |
| **Total Available Habitat** | 28.98 | 25.31 | **-3.67** | 28.95 | **-0.03** | 34.03 | **5.05** | 34.03 | **5.05** |

**Table 17. Alternative 3: All Stream Segments – Bull Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 1.61 | 0.76 | 0 | 0.76 | 0 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 8.69 | 0.83 | -4.5 | 0.83 | -4.5 | 1.59 | -3.74 | 1.59 | -3.74 |
| Unacceptable risk | 18.69 | 16.7 | -1.99 | 18.52 | -0.17 | 18.82 | 0.13 | 18.82 | 0.13 |
| Spawning Initiation | 1.61 | 0.76 | -0.85 | 0.76 | -0.85 | 0 | -1.61 | 0 | -1.61 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 28.99 | 18.29 | -10.2 | 20.11 | -8.38 | 20.41 | -8.08 | 20.41 | -8.08 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 13.66 | 4.95 | -8.71 | 4.95 | -8.71 | 4.95 | -8.71 | 4.95 | -8.71 |
| Functioning at risk | 12.89 | 5.69 | -7.2 | 6.15 | -6.74 | 5.94 | -6.95 | 5.94 | -6.95 |
| Unacceptable risk | 2.44 | 7.65 | 5.21 | 9.01 | 6.57 | 9.52 | 7.08 | 9.52 | 7.08 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 13.82 | 7.49 | -6.33 | 6.81 | -7.01 | 0 | -13.82 | 0 | -13.82 |
| Optimal Growth (limited food) | 13.66 | 4.95 | -8.71 | 4.95 | -8.71 | 4.95 | -8.71 | 4.95 | -8.71 |
| Optimal temp to occur in field | 4.03 | 2.09 | -1.94 | 1.2 | -2.83 | 2.25 | -1.78 | 2.25 | -1.78 |
| Competition Disadvantage | 15.33 | 13.34 | -1.99 | 15.16 | -0.17 | 15.46 | 0.13 | 15.46 | 0.13 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 8.66 | 4.95 | -3.71 | 4.95 | -3.71 | 4.95 | -3.71 | 4.95 | -3.71 |
| **Total Available Habitat** | 28.99 | 18.29 | **-10.7** | 20.11 | **-8.88** | 20.41 | **-8.58** | 20.41 | **-8.58** |

#### 4.4.1 Stream Segment 1: EFSFSR and tributaries from Sugar Creek upstream to Meadow Creek

- For Chinook salmon, stream kilometers in the field-observed spawning water temperature range would increase as they do in Alternative 1. However, more kilometers of stream would reach water temperatures that are considered lethal over prolonged timeframes (this does not mean water temperatures would be lethal to Chinook salmon[3]) than they would under Alternative 1. Unlike Alternative 1, all of the optimal juvenile rearing and common summer habitat use stream length would be lost.
- Steelhead would lose all optimal juvenile rearing and common summer stream use stream length, in contrast to the gains in these categories under Alternative 1.
- Cutthroat trout would have a greater increase in stream kilometers in the functioning at unacceptable risk water temperature range for juvenile rearing than would those under Alternative 1.
- Bull trout would lose 3.71 kilometers of stream in the functioning appropriately water temperature range for juvenile rearing, similar to the other alternatives.

#### 4.4.2 Stream Segment 2: Meadow Creek and East Fork Meadow Creek

- For Chinook salmon at Baseline, all 6.46 kilometers of available habitat are in the field-observed spawning water temperature range. This stream length would be reduced by between 0.55 and 1.62 kilometers during mining operations and post-closure. There also would be reductions in the length of stream in the optimal water temperature ranges for juvenile rearing and common summer habitat use.
- Steelhead would have increased habitat from Baseline, because there is no access at Baseline.
- Stream water temperatures for Westslope cutthroat trout and bull trout would have juvenile rearing temperature impacts on approximately 1 kilometer of stream.

#### 4.4.3 Stream Segment 3: EFSFSR Upstream of Meadow Creek

- For Chinook salmon, the length of stream in the field-observed spawning water temperature range would be reduced from 4.99 kilometers at Baseline to less than 1 kilometer during mine operations and post-closure. All of the 4.99 kilometers of stream in the optimal water temperature ranges for incubation/emergence and juvenile rearing would be lost during mine operations and post-closure (except for 0.93 kilometer in EOY 12).
- Steelhead would gain 0.93 kilometer of additional habitat in the optimal water temperature range for incubation/emergence and juvenile rearing.
- Cutthroat trout would have increases in stream length in the functioning at unacceptable risk water temperature range.

[3] The lethal water temperature criteria Chinook salmon is set for a 1-week exposure to temperatures 21 to 22°C. If the maximum temperature in a day or week reaches that water temperature, it does not mean it would be lethal to fish. However, it is a measure of stress on fish.

#### 4.4.4 Stream Segment 4: EFSFSR Downstream of Sugar Creek

- This is a short reach of approximately 1 kilometer that would experience few changes from Baseline for all species.

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# Appendix A: Temperature Analysis Results Tables

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The tables below are the results of applying the SPLNT modeled stream temperatures at the time stamps listed in **Tables 1** through **4** to the criteria listed in **Tables 1** through **4** and outputting the number of stream kilometers that are in each criterion. They are organized hierarchically by alternative, then by stream segment, then by species.

Note that there may be small differences in habitat values not as a result of the project, but of the configuration and length of SPLNT modeling reaches, because they vary between alternatives and within alternatives between mine year scenarios (and there can be multiple models within a given mine year).

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# Alternative 1

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| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0 | 0 | 1.23 | 1.23 | 2.15 | 2.15 | 1.68 | 1.68 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.68 | 1.68 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 3.48 | 3.48 | 4.12 | 4.12 | 4.84 | 4.84 | 4.84 | 4.84 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.26 | 3.48 | -0.78 | 4.78 | 0.52 | 4.84 | 0.58 | 4.84 | 0.58 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0.66 | 0.66 | 0.66 | 0.66 | 3.16 | 3.16 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.26 | 3.48 | -0.78 | 3.1 | -1.16 | 0.66 | -3.6 | 2.43 | -1.83 |
| Optimal Growth (unlimited food) | 4.26 | 3.48 | -0.78 | 4.78 | 0.52 | 4.84 | 0.58 | 4.84 | 0.58 |
| Optimal Growth (limited food) | 4.26 | 0.66 | -3.6 | 2.84 | -1.42 | 0.66 | -3.6 | 0.66 | -3.6 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 4.26 | 3.48 | -0.78 | 4.78 | 0.52 | 4.84 | 0.58 | 4.84 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.68 | 1.68 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.26 | 3.48 | -0.78 | 3.1 | -1.16 | 0.66 | -3.6 | 2.43 | -1.83 |
| **Total Available Habitat** | **4.26** | **3.48** | **-0.78** | **4.78** | **0.52** | **4.84** | **0.58** | **4.84** | **0.58** |

**Alternative 1 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.12 | 3.48 | 2.36 | 4.78 | 3.66 | 4.84 | 3.72 | 4.84 | 3.72 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.12 | 3.48 | 2.36 | 3.1 | 1.98 | 0.66 | -0.46 | 2.43 | 1.31 |
| Optimal Growth (unlimited food) | 1.12 | 3.48 | 2.36 | 4.78 | 3.66 | 4.84 | 3.72 | 4.84 | 3.72 |
| Optimal Growth (limited food) | 1.12 | 0.66 | -0.46 | 2.84 | 1.72 | 0.66 | -0.46 | 0.66 | -0.46 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.12 | 3.48 | 2.36 | 4.78 | 3.66 | 4.84 | 3.72 | 4.84 | 3.72 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.68 | 1.68 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.12 | 0 | -1.12 | 3.1 | 1.98 | 0.66 | -0.46 | 2.43 | 1.31 |
| **Total Available Habitat** | **1.12** | **3.48** | **2.36** | **4.78** | **3.66** | **4.84** | **3.72** | **4.84** | **3.72** |

**Alternative 1 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.52 | -0.33 | 0.52 | -0.33 | 0.52 | -0.33 |
| Reduced visibility of gametes in adults | 4.88 | 3.98 | -0.9 | 7.82 | 2.94 | 8.09 | 3.21 | 5.81 | 0.93 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 2.79 | 0.89 | -1.9 | 0.89 | -1.9 | 0.94 | -1.85 | 0.94 | -1.85 |
| Functioning at risk | 2.57 | 0 | -2.57 | 0 | -2.57 | 0 | -2.57 | 2.28 | -0.29 |
| Unacceptable risk | 3.76 | 3.98 | 0.22 | 7.82 | 4.06 | 8.09 | 4.33 | 5.81 | 2.05 |
| Optimal Growth (unlimited food) | 4.88 | 3.98 | -0.9 | 7.82 | 2.94 | 8.09 | 3.21 | 5.81 | 0.93 |
| Optimal Growth (limited food) | 8.27 | 1.16 | -7.11 | 5.78 | -2.49 | 3.36 | -4.91 | 4.33 | -3.94 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.41 | 3.98 | -1.43 | 7.82 | 2.41 | 8.09 | 2.68 | 8.09 | 2.68 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.68 | 1.68 | 0 | 0 |
| **Total Available Habitat** | **9.12** | **4.87** | **-4.25** | **8.71** | **-0.41** | **9.03** | **-0.09** | **9.03** | **-0.09** |

**Alternative 1 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 3.23 | 3.23 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 5.41 | 0 | -5.41 | 0 | -5.41 | 0 | -5.41 | 0 | -5.41 |
| Spawning Initiation | 0.85 | 0 | -0.85 | 3.23 | 2.38 | 0 | -0.85 | 0 | -0.85 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 9.12 | 3.98 | -5.14 | 7.82 | -1.3 | 6.28 | -2.84 | 6.28 | -2.84 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Functioning at risk | 5.41 | 0.25 | -5.16 | 3.23 | -2.18 | 0 | -5.41 | 0 | -5.41 |
| Unacceptable risk | 0 | 3.73 | 3.73 | 4.59 | 4.59 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 5.41 | 1.16 | -4.25 | 5.41 | 0 | 0 | -5.41 | 0 | -5.41 |
| Optimal Growth (limited food) | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Optimal temp to occur in field | 3.02 | 2.98 | -0.04 | 2.84 | -0.18 | 0.25 | -2.77 | 0.47 | -2.55 |
| Competition Disadvantage | 5.41 | 3.98 | -1.43 | 7.82 | 2.41 | 0 | -5.41 | 0 | -5.41 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| **Total Available Habitat** | **9.12** | **3.98** | **-5.14** | **7.82** | **-1.3** | **6.28** | **-2.84** | **6.28** | **-2.84** |

**Alternative 1 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 1.84 | 1.84 | 0.97 | 0.97 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 1.98 | 1.98 | 0.86 | 0.86 |
| Optimal Adult Swimming Performance | 2.44 | 1.83 | -0.61 | 1.83 | -0.61 | 0.25 | -2.19 | 1.12 | -1.32 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0.87 | 0.87 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 6.46 | 0 | -6.46 | 0.84 | -5.62 | 0.14 | -6.32 | 1.26 | -5.2 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 1.98 | 0.47 | 0.86 | -0.65 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 1.98 | 0.47 | 0.86 | -0.65 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 6.46 | 0 | -6.46 | 0 | -6.46 | 0 | -6.46 | 0.25 | -6.21 |
| Optimal Growth (unlimited food) | 4.96 | 1.83 | -3.13 | 1.83 | -3.13 | 1.11 | -3.85 | 1.98 | -2.98 |
| Optimal Growth (limited food) | 4.95 | 0 | -4.95 | 0 | -4.95 | 0 | -4.95 | 0 | -4.95 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.86 | 1.83 | -4.03 | 1.83 | -4.03 | 1.98 | -3.88 | 1.98 | -3.88 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 1.98 | 1.98 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 6.46 | 0 | -6.46 | 0 | -6.46 | 0 | -6.46 | 0.25 | -6.21 |
| **Total Available Habitat** | **6.46** | **1.83** | **-4.63** | **1.83** | **-4.63** | **1.98** | **-4.48** | **1.98** | **-4.48** |

**Alternative 1 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 1.98 | 1.98 | 1.98 | 1.98 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.25 | 0.25 |
| Optimal Growth (unlimited food) | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 1.11 | 1.11 | 1.98 | 1.98 |
| Optimal Growth (limited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 1.98 | 1.98 | 1.98 | 1.98 |
| High Disease risk (lab studies) | 0 | 0.99 | 0.99 | 0.99 | 0.99 | 1.98 | 1.98 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.25 | 0.25 |
| **Total Available Habitat** | **0** | **1.83** | **1.83** | **1.83** | **1.83** | **1.98** | **1.98** | **1.98** | **1.98** |

**Alternative 1 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 6.61 | 1.47 | -5.14 | 2.43 | -4.18 | 11.14 | 4.53 | 10.01 | 3.40 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 1.59 | 0.77 | -0.82 | 0.77 | -0.82 | 0.80 | -0.79 | 0.80 | -0.79 |
| Functioning at risk | 7.16 | 2.96 | -4.2 | 2.96 | -4.2 | 1.45 | -5.71 | 1.45 | -5.71 |
| Unacceptable risk | 5.11 | 1.47 | -3.64 | 1.47 | -3.64 | 11.14 | 6.03 | 11.14 | 6.03 |
| Optimal Growth (unlimited food) | 6.61 | 1.47 | -5.14 | 2.43 | -4.18 | 9.63 | 3.02 | 10.01 | 3.40 |
| Optimal Growth (limited food) | 12.35 | 3.73 | -8.62 | 3.73 | -8.62 | 6.08 | -6.27 | 6.89 | -5.46 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 8.91 | 2.43 | -6.48 | 2.43 | -6.48 | 11.14 | 2.23 | 11.14 | 2.23 |
| High Disease risk (lab studies) | 0 | 0.63 | 0.63 | 0.63 | 0.63 | 4.80 | 4.80 | 0.86 | 0.86 |
| **Total Available Habitat** | **13.86** | **5.2** | **-8.66** | **5.2** | **-8.66** | **13.39** | **-0.47** | **13.39** | **-0.47** |

**Alternative 1 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 0.83 | 0 | -0.83 | 0 | -0.83 | 1.45 | 0.62 | 0 | -0.83 |
| Unacceptable risk | 12.27 | 3.47 | -8.8 | 3.47 | -8.8 | 2.48 | -9.79 | 3.93 | -8.34 |
| Spawning Initiation | 0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 13.86 | 3.47 | -10.39 | 3.47 | -10.39 | 3.93 | -9.93 | 3.93 | -9.93 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 4.95 | 2 | -2.95 | 2 | -2.95 | 1.45 | -3.5 | 1.45 | -3.5 |
| Functioning at risk | 6.47 | 0 | -6.47 | 0 | -6.47 | 0.56 | -5.91 | 0.56 | -5.91 |
| Unacceptable risk | 2.44 | 1.47 | -0.97 | 1.47 | -0.97 | 1.92 | -0.52 | 1.92 | -0.52 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 7.4 | 0 | -7.4 | 0 | -7.4 | 0.56 | -6.84 | 1.37 | -6.03 |
| Optimal Growth (limited food) | 4.95 | 2 | -2.95 | 2 | -2.95 | 1.45 | -3.5 | 1.45 | -3.5 |
| Optimal temp to occur in field | 0 | 0 | 0 | 0 | 0 | 0.81 | 0.81 | 1.06 | 1.06 |
| Competition Disadvantage | 8.91 | 1.47 | -7.44 | 1.47 | -7.44 | 2.48 | -6.43 | 2.48 | -6.43 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 4.95 | 2 | -2.95 | 2 | -2.95 | 1.45 | -3.5 | 1.45 | -3.5 |
| **Total Available Habitat** | **13.86** | **3.47** | **-10.39** | **3.47** | **-10.39** | **3.93** | **-9.93** | **3.93** | **-9.93** |

**Alternative 1 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.99 | 4.99 | 4.99 | 4.99 | 0.00 | 4.99 | 0.00 | 4.99 | 0.00 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 3.08 | 3.08 | 2.22 | -2.77 | 2.22 | -2.77 | 4.41 | -0.58 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.99 | 4.99 | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 5.00 | 4.99 | 4.99 | 4.99 | -0.01 | 4.99 | -0.01 | 4.99 | -0.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.99 | 0 | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| **Total Available Habitat** | **4.99** | **1.83** | **4.99** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** |

**Alternative 1 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 0 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | **0** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** |
| **Total Available Habitat** | **0** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** |

**Alternative 1 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0.63 | 0.63 | 0 | 0.63 | 0 | 0.63 | 0 | 0.63 | 0 |
| Functioning at risk | 4.36 | 4.36 | 0 | 4.36 | 0 | 4.36 | 0 | 4.36 | 0 |
| Unacceptable risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **4.99** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** |

**Alternative 1 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 4.5 | 3.08 | -1.42 | 2.22 | -2.28 | 2.22 | -2.28 | 4.41 | -0.09 |
| Unacceptable risk | 0 | 1.91 | 1.91 | 2.77 | 2.77 | 2.77 | 2.77 | 0.58 | 0.58 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 4.5 | 4.99 | 0.49 | 4.99 | 0.49 | 4.99 | 0.49 | 4.99 | 0.49 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 |
| Functioning at risk | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Unacceptable risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Optimal Growth (limited food) | 5 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 |
| Optimal temp to occur in field | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Competition Disadvantage | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 |
| **Total Available Habitat** | **5** | **4.99** | **-0.01** | **4.99** | **-0.01** | **4.99** | **-0.01** | **4.99** | **-0.01** |

**Alternative 1 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0 | 0 | 0 | 0 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 1 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 | 0.00 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.66 | -0.35 | 0 | -1.01 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 1 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.89 | 0.89 | 0.89 | 0.89 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 1 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Westslope Cutthroat Trout**

| Bull Trout | | Stream Length within Threshold (kilometers) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (limited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal temp to occur in field | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Competition Disadvantage | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 1 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Bull Trout**

# Alternative 2

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| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 0 | 0 | 1.23 | 1.23 | 0 | 0 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 2.82 | 2.82 | 4.59 | 4.59 | 3.61 | 3.61 | 3.61 | 3.61 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.26 | 3.48 | -0.78 | 5.25 | 0.99 | 3.61 | -0.65 | 3.61 | -0.65 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 2.56 | 2.56 | 2.95 | 2.95 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 2.56 | 2.56 | 2.95 | 2.95 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.26 | 3.48 | -0.78 | 3.57 | -0.69 | 0.66 | -3.6 | 3.61 | -0.65 |
| Optimal Growth (unlimited food) | 4.26 | 3.48 | -0.78 | 5.25 | 0.99 | 3.61 | -0.65 | 3.61 | -0.65 |
| Optimal Growth (limited food) | 4.26 | 3.23 | -1.03 | 2.84 | -1.42 | 0 | -4.26 | 0 | -4.26 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 4.26 | 3.48 | -0.78 | 5.25 | 0.99 | 3.61 | -0.65 | 3.61 | -0.65 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.26 | 3.48 | -0.78 | 3.57 | -0.69 | 0.66 | -3.6 | 3.61 | -0.65 |
| **Total Available Habitat** | **4.26** | **3.48** | **-0.78** | **5.25** | **0.99** | **4.99** | **0.73** | **3.61** | **-0.65** |

**Alternative 2 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.12 | 3.48 | 2.36 | 5.25 | 4.13 | 3.61 | 2.49 | 3.61 | 2.49 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.12 | 3.48 | 2.36 | 3.57 | 2.45 | 0.66 | -0.46 | 3.61 | 2.49 |
| Optimal Growth (unlimited food) | 1.12 | 3.48 | 2.36 | 5.25 | 4.13 | 3.61 | 2.49 | 3.61 | 2.49 |
| Optimal Growth (limited food) | 1.12 | 3.23 | 2.11 | 2.84 | 1.72 | 0 | -1.12 | 0 | -1.12 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.12 | 3.48 | 2.36 | 5.25 | 4.13 | 3.61 | 2.49 | 3.61 | 2.49 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.12 | 0 | -1.12 | 3.57 | 2.45 | 0.66 | -0.46 | 2.43 | 1.31 |
| **Total Available Habitat** | **1.12** | **3.48** | **2.36** | **5.25** | **4.13** | **3.61** | **2.49** | **3.61** | **2.49** |

**Alternative 2 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.52 | -0.33 | 0.52 | 0.48 | 0.52 | 0.85 |
| Reduced visibility of gametes in adults | 4.88 | 3.48 | -1.4 | 7.82 | 2.94 | 7.20 | 2.32 | 4.92 | 0.04 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 2.79 | 1.14 | -1.65 | 0.89 | -1.9 | 0.94 | -1.85 | 0.94 | -1.85 |
| Functioning at risk | 2.57 | 0 | -2.57 | 0 | -2.57 | 0.00 | -2.57 | 2.28 | -0.29 |
| Unacceptable risk | 3.76 | 3.48 | -0.28 | 7.82 | 4.06 | 7.20 | 3.44 | 4.92 | 1.16 |
| Optimal Growth (unlimited food) | 4.88 | 3.48 | -1.4 | 7.82 | 2.94 | 7.20 | 2.32 | 4.92 | 0.04 |
| Optimal Growth (limited food) | 8.27 | 3.48 | -4.79 | 5.78 | -2.49 | 3.42 | -4.85 | 3.67 | -4.60 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.41 | 3.48 | -1.93 | 7.82 | 2.41 | 7.20 | 1.79 | 7.20 | 1.79 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **9.12** | **4.62** | **-4.5** | **8.71** | **-0.41** | **8.14** | **-0.98** | **8.14** | **-0.98** |

**Alternative 2 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0.89 | 0.89 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 5.41 | 0 | -5.41 | 7.18 | 1.77 | 5.39 | -0.02 | 5.39 | -0.02 |
| Spawning Initiation | 0.85 | 0 | -0.85 | 0.89 | 0.04 | 0 | -0.85 | 0 | -0.85 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 9.12 | 3.98 | -5.14 | 8.07 | -1.05 | 5.39 | -3.73 | 5.39 | -3.73 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Functioning at risk | 5.41 | 0.25 | -5.16 | 1.37 | -4.04 | 0.94 | -4.47 | 1.44 | -3.97 |
| Unacceptable risk | 0 | 3.73 | 3.73 | 4.59 | 4.59 | 4.45 | 4.45 | 3.95 | 3.95 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 5.41 | 1.16 | -4.25 | 3.55 | -1.86 | 1.19 | -4.22 | 1.44 | -3.97 |
| Optimal Growth (limited food) | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Optimal temp to occur in field | 3.02 | 2.98 | -0.04 | 2.44 | -0.58 | 0.97 | -2.05 | 0 | -3.02 |
| Competition Disadvantage | 5.41 | 3.98 | -1.43 | 5.96 | 0.55 | 5.39 | -0.02 | 5.39 | -0.02 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| **Total Available Habitat** | **9.12** | **3.73** | **-5.39** | **8.71** | **-0.41** | **5.39** | **-3.73** | **5.39** | **-3.73** |

**Alternative 2 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within/outside Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| Optimal Adult Swimming Performance | 2.44 | 0.72 | -1.72 | 0.72 | -1.72 | 2.63 | 0.19 | 2.63 | 0.19 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 6.46 | 1.83 | -4.63 | 1.83 | -4.63 | 0 | -6.46 | 2.63 | -3.83 |
| Reduced visibility of gametes in adults | 1.51 | 0.72 | -0.79 | 0.72 | -0.79 | 2.63 | 1.12 | 1.56 | 0.05 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.51 | 0.72 | -0.79 | 0.72 | -0.79 | 2.63 | 1.12 | 1.56 | 0.05 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 6.46 | 1.83 | -4.63 | 1.83 | -4.63 | 0 | -6.46 | 0.8 | -5.66 |
| Optimal Growth (unlimited food) | 4.96 | 1.56 | -3.4 | 1.56 | -3.4 | 2.63 | -2.33 | 2.63 | -2.33 |
| Optimal Growth (limited food) | 4.95 | 1.47 | -3.48 | 1.47 | -3.48 | 0 | -4.95 | 0 | -4.95 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.86 | 1.83 | -4.03 | 1.83 | -4.03 | 2.63 | -3.23 | 2.63 | -3.23 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 6.46 | **1.83** | -4.63 | **1.83** | -4.63 | **0** | -6.46 | **0.8** | -5.66 |
| **Total Available Habitat** | **6.46** | **1.83** | **-4.63** | **1.83** | **-4.63** | **2.63** | **-3.83** | **2.63** | **-3.83** |

**Alternative 2 – Stream Segment 2: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 1.56 | 1.56 | 1.56 | 1.56 | 2.63 | 2.63 | 2.63 | 2.63 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 0 | 0 | 0.8 | 0.8 |
| Optimal Growth (unlimited food) | 0 | 1.56 | 1.56 | 1.56 | 1.56 | 2.63 | 2.63 | 2.63 | 2.63 |
| Optimal Growth (limited food) | 0 | 1.47 | 1.47 | 1.47 | 1.47 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 2.63 | 2.63 | 2.63 | 2.63 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 0 | 1.83 | 1.83 | 1.83 | 1.83 | 0 | 0 | 0.80 | 0.8 |
| **Total Available Habitat** | **0** | **1.83** | **1.83** | **1.83** | **1.83** | **2.63** | **2.63** | **2.63** | **2.63** |

**Alternative 2 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 6.61 | 1.56 | -5.05 | 1.56 | -5.05 | 10.42 | 3.81 | 9.29 | 2.68 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 1.59 | 0.77 | -0.82 | 0.77 | -0.82 | 0.80 | -0.79 | 0.80 | -0.79 |
| Functioning at risk | 7.16 | 3.23 | -3.93 | 3.23 | -3.93 | 2.40 | -4.76 | 2.40 | -4.76 |
| Unacceptable risk | 5.11 | 1.56 | -3.55 | 1.56 | -3.55 | 10.42 | 5.31 | 10.42 | 5.31 |
| Optimal Growth (unlimited food) | 6.61 | 1.56 | -5.05 | 1.56 | -5.05 | 10.42 | 3.81 | 9.29 | 2.68 |
| Optimal Growth (limited food) | 12.35 | 5.2 | -7.15 | 5.2 | -7.15 | 7.09 | -5.26 | 8.65 | -3.7 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 8.91 | 2.79 | -6.12 | 2.79 | -6.12 | 10.82 | 1.91 | 10.82 | 1.91 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.83 | 0.00 | 0 |
| **Total Available Habitat** | **13.86** | **5.56** | **-8.3** | **5.56** | **-8.3** | **13.62** | **-0.24** | **13.62** | **-0.24** |

**Alternative 2 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 0.83 | 0 | -0.83 | 3.65 | 2.82 | 0 | -0.83 | 0 | -0.83 |
| Unacceptable risk | 12.27 | 3.83 | -8.44 | 11.99 | -0.28 | 4.85 | -7.42 | 4.85 | -7.42 |
| Spawning Initiation | 0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 | 0 | -0.76 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 13.86 | 3.83 | -10.03 | 15.64 | 1.78 | 4.85 | -9.01 | 4.85 | -9.01 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 4.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 |
| Functioning at risk | 6.47 | 1.11 | -5.36 | 1.11 | -5.36 | 1.02 | -5.45 | 1.02 | -5.45 |
| Unacceptable risk | 2.44 | 0.72 | -1.72 | 0.72 | -1.72 | 1.83 | -0.61 | 1.83 | -0.61 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 7.4 | 1.47 | -5.93 | 1.47 | -5.93 | 1.02 | -6.38 | 1.02 | -6.38 |
| Optimal Growth (limited food) | 4.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 |
| Optimal temp to occur in field | 0 | 0.72 | 0.72 | 0.72 | 0.72 | 0 | 0 | 0 | 0 |
| Competition Disadvantage | 8.91 | 1.83 | -7.08 | 1.83 | -7.08 | 2.85 | -6.06 | 2.85 | -6.06 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 4.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 | 2 | -2.95 |
| **Total Available Habitat** | **13.86** | **3.83** | **-10.03** | **3.83** | **-10.03** | **4.85** | **-9.01** | **4.85** | **-9.01** |

**Alternative 2 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1 week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 4.41 | -0.58 | 3.08 | -1.91 | 4.41 | -0.58 | 4.41 | -0.58 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 5.00 | 4.99 | -0.01 | 4.99 | -0.01 | 4.99 | -0.01 | 4.99 | -0.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.99 | **4.99** | 0 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| **Total Available Habitat** | **4.99** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** |

**Alternative 2 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 0 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 0 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| **Total Available Habitat** | **0** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** | **4.99** |

**Alternative 2 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0.63 | 0.63 | 0 | 0.63 | 0 | 0.63 | 0 | 0.63 | 0 |
| Functioning at risk | 4.36 | 4.36 | 0 | 4.36 | 0 | 4.36 | 0 | 4.36 | 0 |
| Unacceptable risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 4.99 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 | 4.99 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **4.99** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** | **4.99** | **0** |

**Alternative 2 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 4.5 | 4.41 | -0.09 | 3.08 | -1.42 | 4.41 | -0.09 | 4.41 | -0.09 |
| Unacceptable risk | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 4.5 | 4.99 | 0.49 | 4.99 | 0.49 | 4.99 | 0.49 | 4.99 | 0.49 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 |
| Functioning at risk | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Unacceptable risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Optimal Growth (limited food) | 5 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 | 4.41 | -0.59 |
| Optimal temp to occur in field | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Competition Disadvantage | 0 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 | 4.41 |
| **Total Available Habitat** | **5** | **4.99** | **-0.01** | **4.99** | **-0.01** | **4.99** | **-0.01** | **4.99** | **-0.01** |

**Alternative 2 – Stream Segment 3 EFSFSR Upstream of Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0 | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0.89 | 0.89 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0.89 | 0.89 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 2 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 2 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 2 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Westslope Cutthroat Trout**

| Bull Trout | | Stream Length within Threshold (kilometers) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0 | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (limited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal temp to occur in field | 1.01 | 0 | -1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Competition Disadvantage | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 2 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Bull Trout**

# Alternative 3

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| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 3.48 | 3.48 | 4.18 | 4.18 | 4.84 | 4.84 | 4.84 | 4.84 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.15 | 2.15 | 4.84 | 4.84 | 4.84 | 4.84 |
| Optimal Adult Swimming Performance | 0 | 3.48 | 3.48 | 4.84 | 4.84 | 0 | 0 | 3.07 | 3.07 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.26 | 3.48 | -0.78 | 4.84 | 0.58 | 0 | -4.26 | 4.84 | 0.58 |
| Reduced visibility of gametes in adults | 0 | 2.93 | 2.93 | 4.84 | 4.84 | 4.84 | 4.84 | 4.18 | 4.18 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 2.93 | 2.93 | 4.84 | 4.84 | 4.84 | 4.84 | 4.18 | 4.18 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 |
| Optimal Growth (unlimited food) | 4.26 | 3.48 | -0.78 | 4.84 | 0.58 | 4.84 | 0.58 | 4.84 | 0.58 |
| Optimal Growth (limited food) | 4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 4.26 | 3.48 | -0.78 | 4.84 | 0.58 | 4.84 | 0.58 | 4.84 | 0.58 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.15 | 2.15 | 4.84 | 4.84 | 4.84 | 4.84 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 | 0 | -4.26 |
| **Total Available Habitat** | **4.26** | **3.48** | **-0.78** | **4.84** | **0.58** | **4.84** | **0.58** | **4.84** | **0.58** |

**Alternative 3 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.12 | 3.48 | 2.36 | 4.84 | 3.72 | 4.84 | 3.72 | 4.84 | 3.72 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0 | 0.00 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 |
| Optimal Growth (unlimited food) | 1.12 | 3.48 | 2.36 | 4.84 | 3.72 | 0 | -1.12 | 0 | -1.12 |
| Optimal Growth (limited food) | 1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 4.84 | 4.84 | 4.84 | 4.84 |
| Impairment to Smoltification | 1.12 | 3.48 | 2.36 | 4.84 | 3.72 | 4.84 | 3.72 | 4.84 | 3.72 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.15 | 2.15 | 4.84 | 4.84 | 4.84 | 4.84 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 | 0 | -1.12 |
| **Total Available Habitat** | **1.12** | **3.48** | **2.36** | **4.84** | **3.72** | **4.84** | **3.72** | **4.84** | **3.72** |

**Alternative 3 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0.85 | 0.89 | 0.04 | 0.85 | 0 | 0.52 | -0.33 | 0.52 | -0.33 |
| Reduced visibility of gametes in adults | 4.88 | 3.98 | -0.9 | 7.66 | 2.78 | 8.09 | 3.21 | 8.09 | 3.21 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 2.79 | 0.89 | -1.9 | 0.85 | -1.94 | 0.94 | -1.85 | 0.94 | -1.85 |
| Functioning at risk | 2.57 | 0 | -2.57 | 0 | -2.57 | 0 | -2.57 | 0 | -2.57 |
| Unacceptable risk | 3.76 | 3.98 | 0.22 | 7.66 | 3.9 | 8.09 | 4.33 | 8.09 | 4.33 |
| Optimal Growth (unlimited food) | 4.88 | 3.98 | -0.9 | 7.66 | 2.78 | 3.25 | -1.63 | 3.25 | -1.63 |
| Optimal Growth (limited food) | 8.27 | 0.5 | -7.77 | 2.57 | -5.7 | 0 | -8.27 | 0.00 | -8.27 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.41 | 3.98 | -1.43 | 7.66 | 2.25 | 8.09 | 2.68 | 8.09 | 2.68 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 2.4 | 2.4 | 4.84 | 4.84 | 4.84 | 4.84 |
| **Total Available Habitat** | **9.12** | **4.87** | **-4.25** | **8.51** | **-0.61** | **9.03** | **-0.09** | **9.03** | **-0.09** |

**Alternative 3 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 5.41 | 3.98 | -1.43 | 5.8 | 0.39 | 6.28 | 0.87 | 6.28 | 0.87 |
| Spawning Initiation | 0.85 | 0 | -0.85 | 0 | -0.85 | 0 | -0.85 | 0 | -0.85 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 9.12 | 3.98 | -5.14 | 5.8 | -3.32 | 6.28 | -2.84 | 6.28 | -2.84 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Functioning at risk | 5.41 | 0.25 | -5.16 | 0.71 | -4.7 | 0.72 | -4.69 | 0.72 | -4.69 |
| Unacceptable risk | 0 | 3.73 | 3.73 | 5.09 | 5.09 | 5.56 | 5.56 | 5.56 | 5.56 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 5.41 | 0.5 | -4.91 | 0.71 | -4.7 | 0 | -5.41 | 0 | -5.41 |
| Optimal Growth (limited food) | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| Optimal temp to occur in field | 3.02 | 0 | -3.02 | 0 | -3.02 | 0.97 | -2.05 | 0.97 | -2.05 |
| Competition Disadvantage | 5.41 | 3.98 | -1.43 | 5.8 | 0.39 | 6.28 | 0.87 | 6.28 | 0.87 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 | 0 | -3.71 |
| **Total Available Habitat** | **9.12** | **3.98** | **-5.14** | **5.8** | **-3.32** | **6.28** | **-2.84** | **6.28** | **-2.84** |

**Alternative 3 – Stream Segment 1: EFSFSR and tributaries from Sugar Creek to Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within/outside Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0.36 | 0.36 | 0 | 0 | 0.72 | 0.72 | 0.72 | 0.72 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 |
| Optimal Adult Swimming Performance | 2.44 | 2.49 | 0.05 | 2.49 | 0.05 | 1.28 | -1.16 | 1.28 | -1.16 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 6.46 | 5.19 | -1.27 | 5.91 | -0.55 | 4.84 | -1.62 | 4.84 | -1.62 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 2.14 | 0.63 | 2.14 | 0.63 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.51 | 1.83 | 0.32 | 1.83 | 0.32 | 2.14 | 0.63 | 2.14 | 0.63 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 6.46 | 5.19 | -1.27 | 5.19 | -1.27 | 4.7 | -1.76 | 4.7 | -1.76 |
| Optimal Growth (unlimited food) | 4.96 | 5.01 | 0.05 | 5.01 | 0.05 | 4.66 | -0.3 | 4.66 | -0.3 |
| Optimal Growth (limited food) | 4.95 | 4.08 | -0.87 | 4.08 | -0.87 | 4.08 | -0.87 | 4.08 | -0.87 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 5.86 | 5.91 | 0.05 | 5.91 | 0.05 | 5.56 | -0.3 | 5.56 | -0.3 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 6.46 | 5.19 | -1.27 | 5.19 | -1.27 | 4.7 | -1.76 | 4.7 | -1.76 |
| **Total Available Habitat** | **6.46** | **5.91** | **-0.55** | **5.91** | **-0.55** | **5.56** | **-0.9** | **5.56** | **-0.9** |

**Alternative 3 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 5.01 | 5.01 | 5.01 | 5.01 | 4.66 | 4.66 | 4.66 | 4.66 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 5.19 | 5.19 | 5.19 | 5.19 | 4.70 | 4.70 | 4.7 | 4.70 |
| Optimal Growth (unlimited food) | 0 | 5.01 | 5.01 | 5.01 | 5.01 | 3.80 | 3.80 | 3.8 | 3.80 |
| Optimal Growth (limited food) | 0 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 |
| Impairment to Smoltification | 0 | 5.91 | 5.91 | 5.91 | 5.91 | 5.56 | 5.56 | 5.56 | 5.56 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 0 | 5.19 | 5.19 | 5.19 | 5.19 | 4.70 | 4.70 | 4.70 | 4.70 |
| **Total Available Habitat** | **0** | **5.91** | **5.91** | **5.91** | **5.91** | **5.56** | **5.56** | **5.56** | **5.56** |

**Alternative 3 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 6.61 | 7.03 | 0.42 | 7.03 | 0.42 | 6.46 | -0.15 | 6.46 | -0.15 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 1.59 | 1.59 | 0 | 1.59 | 0 | 1.59 | 0 | 1.59 | 0 |
| Functioning at risk | 7.16 | 6 | -1.16 | 6 | -1.16 | 6.00 | -1.16 | 6.00 | -1.16 |
| Unacceptable risk | 5.11 | 5.29 | 0.18 | 5.29 | 0.18 | 4.72 | -0.39 | 4.72 | -0.39 |
| Optimal Growth (unlimited food) | 6.61 | 7.03 | 0.42 | 7.03 | 0.42 | 5.60 | -1.01 | 5.60 | -1.01 |
| Optimal Growth (limited food) | 12.35 | 11.05 | -1.3 | 11.05 | -1.3 | 0.00 | -12.35 | 0 | -12.35 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 8.91 | 7.93 | -0.98 | 7.93 | -0.98 | 7.36 | -1.55 | 7.36 | -1.55 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.86 | 0.86 | 0.86 | 0.86 |
| **Total Available Habitat** | **13.86** | **12.88** | **-0.98** | **12.88** | **-0.98** | **12.31** | **-1.55** | **12.31** | **-1.55** |

**Alternative 3 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0.76 | 0.76 | 0 | 0.76 | 0 | 0 | -0.76 | 0 | -0.76 |
| Functioning at risk | 0.83 | 0.83 | 0 | 0.83 | 0 | 1.59 | 0.76 | 1.59 | 0.76 |
| Unacceptable risk | 12.27 | 11.29 | -0.98 | 11.29 | -0.98 | 10.72 | -1.55 | 10.72 | -1.55 |
| Spawning Initiation | 0.76 | 0.76 | 0 | 0.76 | 0 | 0 | -0.76 | 0 | -0.76 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 13.86 | 12.88 | -0.98 | 12.88 | -0.98 | 12.31 | -1.55 | 12.31 | -1.55 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 4.95 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 |
| Functioning at risk | 6.47 | 5.44 | -1.03 | 5.44 | -1.03 | 5.22 | -1.25 | 5.22 | -1.25 |
| Unacceptable risk | 2.44 | 2.49 | 0.05 | 2.49 | 0.05 | 2.14 | -0.3 | 2.14 | -0.3 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 7.4 | 6.1 | -1.3 | 6.1 | -1.3 | 0 | -7.4 | 0 | -7.4 |
| Optimal Growth (limited food) | 4.95 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 |
| Optimal temp to occur in field | 0 | 0.66 | 0.66 | 0.66 | 0.66 | 1.28 | 1.28 | 1.28 | 1.28 |
| Competition Disadvantage | 8.91 | 7.93 | -0.98 | 7.93 | -0.98 | 7.36 | -1.55 | 7.36 | -1.55 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 4.95 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 | 4.95 | 0 |
| **Total Available Habitat** | **13.86** | **12.88** | **-0.98** | **12.88** | **-0.98** | **12.31** | **-1.55** | **12.31** | **-1.55** |

**Alternative 3 – Stream Segment 2: Meadow Creek and East Fork Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0.93 | 0.93 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0 | 0 | 0.93 | 0.93 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0.39 | 0.39 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 4.99 | 0.93 | -4.06 | 0.93 | -4.06 | 0.00 | -4.99 | 0.93 | -4.06 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 4.99 | 0.00 | -4.99 | 0 | -4.99 | 0.00 | -4.99 | 0.00 | -4.99 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 4.99 | 0.93 | -4.06 | 0.93 | -4.06 | 0.00 | -4.99 | 0 | -4.99 |
| Optimal Growth (unlimited food) | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0.54 | 0.54 | 0.93 | 0.93 |
| Optimal Growth (limited food) | 5.00 | 0 | -5.00 | 0 | -5.00 | 0 | -5.00 | 0 | -5.00 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 4.99 | 0.93 | -4.06 | 0.93 | -4.06 | 0 | -4.99 | 0 | -4.99 |
| **Total Available Habitat** | **4.99** | **0.93** | **-4.06** | **0.93** | **-4.06** | **0.93** | **-4.06** | **0.93** | **-4.06** |

**Alternative 3 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0 | 0 | 0.93 | 0.93 |
| Optimal Growth (limited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0.93 | 0.93 |
| Impairment to Smoltification | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0.93 | 0.93 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 0 | 0.93 | 0.93 | 0.93 | 0.93 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **0** | **0.93** | **0.93** | **0.93** | **0.93** | **0.93** | **0.93** | **0.93** | **0.93** |

**Alternative 3 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 4.47 | 4.47 | 4.47 | 4.47 | 10.68 | 10.68 | 10.68 | 10.68 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0.63 | 0 | -0.63 | 0 | -0.63 | 0 | -0.63 | 0 | -0.63 |
| Functioning at risk | 4.36 | 2.2 | -2.16 | 2.2 | -2.16 | 0.94 | -3.42 | 0.94 | -3.42 |
| Unacceptable risk | 0 | 4.47 | 4.47 | 4.47 | 4.47 | 10.86 | 10.86 | 10.86 | 10.86 |
| Optimal Growth (unlimited food) | 0 | 4.47 | 4.47 | 4.47 | 4.47 | 6.78 | 6.78 | 6.78 | 6.78 |
| Optimal Growth (limited food) | 4.99 | 6.13 | 1.14 | 6.13 | 1.14 | 0 | -4.99 | 0 | -4.99 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 0 | 5.85 | 5.85 | 5.85 | 5.85 | 10.86 | 10.86 | 10.86 | 10.86 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 3.90 | 3.9 | 3.90 | 3.9 |
| **Total Available Habitat** | **4.99** | **6.67** | **1.68** | **6.67** | **1.68** | **11.80** | **6.81** | **11.80** | **6.81** |

**Alternative 3 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 4.5 | 0 | -4.5 | 0 | -4.5 | 0 | -4.5 | 0 | -4.5 |
| Unacceptable risk | 0 | 0.54 | 0.54 | 0.54 | 0.54 | 0.93 | 0.93 | 0.93 | 0.93 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 4.5 | 0.54 | -3.96 | 0.54 | -3.96 | 0.93 | -3.57 | 0.93 | -3.57 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 5 | 0 | -5 | 0 | -5 | 0 | -5 | 0 | -5 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 0 | 0.54 | 0.54 | 0.54 | 0.54 | 0.93 | 0.93 | 0.93 | 0.93 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (limited food) | 5 | 0 | -5 | 0 | -5 | 0 | -5 | 0 | -5 |
| Optimal temp to occur in field | 0 | 0.54 | 0.54 | 0.54 | 0.54 | 0 | 0 | 0 | 0 |
| Competition Disadvantage | 0 | 0.54 | 0.54 | 0.54 | 0.54 | 0.93 | 0.93 | 0.93 | 0.93 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **5** | **0.54** | **-4.46** | **0.54** | **-4.46** | **0.93** | **-4.07** | **0.93** | **-4.07** |

**Alternative 3 – Stream Segment 3: EFSFSR Upstream of Meadow Creek – Bull Trout**

| Chinook Salmon (Spring/Summer-Run) | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Migration** | | | | | | | | | |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Adult Swimming Performance | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Reduced Adult Swimming Performance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Migration blockage & delay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Overall reduction in migration fitness due to cumulative stress | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | 0 | | 0 | | 0 | | 0 |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Total Available Habitat** | **1.01** | **0.89** | -0.12 | **0.89** | -0.12 | **0.89** | -0.12 | **0.89** | -0.12 |

**Alternative 3 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Chinook**

| Steelhead | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Incubation/Emergence** | | | | | | | | | |
| Optimal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0.89 | 0.89 | 0.89 | 0.89 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Optimal | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Total Available Habitat** | **1.01** | **0.89** | -0.12 | **0.89** | -0.12 | **0.89** | -0.12 | **0.89** | -0.12 |

**Alternative 3 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Steelhead**

| Cutthroat Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Field Observed Spawning Temp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced visibility of gametes in adults | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Optimal Growth (limited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Impairment to Smoltification | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| High Disease risk (lab studies) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 3 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Westslope Cutthroat Trout**

| Bull Trout | Stream Length within Threshold (kilometers) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline | EOY 6 | Δ Baseline | EOY 12 | Δ Baseline | EOY 18 | Δ Baseline | EOY 112 | Δ Baseline |
| **Adult Spawning** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temp at which Peak Spawning Occurs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Incubation/Emergence** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unacceptable risk | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| Substantially Reduced Egg Survival and Size | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal egg incubation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Juvenile Rearing** | | | | | | | | | |
| Functioning appropriately | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functioning at risk | 1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Unacceptable risk | 0 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Lethal (1-week exposure) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal Growth (unlimited food) | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Optimal Growth (limited food) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Optimal temp to occur in field | 1.01 | 0.89 | -0.12 | 0 | -1.01 | 0 | -1.01 | 0 | -1.01 |
| Competition Disadvantage | 1.01 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 | 0.89 | -0.12 |
| **Emigration** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Common Summer Habitat Use** | | | | | | | | | |
| Spawning Initiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total Available Habitat** | **1.01** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** | **0.89** | **-0.12** |

**Alternative 3 – Stream Segment 4: EFSFSR Downstream of Sugar Creek – Bull Trout**

# Appendix J-3: Barriers Technical Memorandum

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# FISH PASSAGE BARRIERS, CRITICAL HABITAT, INTRINSIC POTENTIAL, AND OCCUPANCY MODELS IMPACTS

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

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Prepared for: AECOM

Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Fish Passage Barriers, Critical Habitat, Intrinsic Potential, and Occupancy Models Impacts

Date: December 2019

To: AECOM

From: Ecosystem Sciences

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| EFSFSR | East Fork of the South Fork of the Salmon River |
| OM | Occupancy Modeling |
| GIS | Geographic Information System |
| Midas Gold | Midas Gold Idaho, Inc. |
| EOY | End of Year |
| Mine Site OM | The occupancy model produced for the study area with mine site scale data inputs for stream temperature, stream discharge, and channel slope. |
| USFWS | U.S. Fish and Wildlife Service |
| NMFS | National Marine Fisheries Service |
| TM | Technical Memorandum |
| TSF/DRSF | Tailing Storage Facility/ Development Rock Storage Facility |
| IP | Intrinsic Potential |
| YPP | Yellow Pine Pit |

# 1.0 INTRODUCTION AND METHODS

The purpose of this Technical Memorandum (TM) is to quantify the changes in the amount of available habitat for Snake River spring-/summer-run Chinook Salmon (*Oncorhynchus tshawytscha*), Snake River Basin steelhead (*Oncorhynchus mykiss*), bull trout (*Salvelinus conflentus*), and westslope cutthroat trout (*Oncorhynchus clarkia lewisi*) due to barriers to fish movement that exist prior to project implementation, and some that will be created by project activities.

The extent of available habitat, as well as important life-stage habitat (Intrinsic Potential [IP] and Critical), for Chinook salmon, steelhead, bull trout, and westslope cutthroat trout is expected to change throughout the mine's life as a result of the proposed Stibnite Gold Project (project) and project alternatives in relation to existing and future fish passage barriers. Several other habitat-related TMs (Ecosystem Sciences 2019a,b,c) describe the quantity and quality of habitat at the mine site, but do not examine existing (Baseline) or future predicted access to that habitat. This TM integrates those analyses with information on existing and predicted fish passage barriers to more fully describe existing and expected future fish habitat conditions.

Fish passage barriers can negatively impact fish species population dynamics by reducing, or completely blocking, available habitat during certain life stages. Fish passage barriers in the project mine site study area (i.e., Upper East Fork of the South Fork Salmon River [EFSFSR] upstream of the confluence with Sugar Creek) were identified and mapped by BioAnalysts (BioAnalysts 2019) (**Figure 1** and **Table 1**). The fish passage barriers were identified as either complete (no species can pass the barrier at any time of year), or partial (the barrier may not exist at high flows; but at certain flows, some fish may not be able to pass). Passage barriers are further described as natural, not caused by human action (rock dam, log jam, steep slope, etc.); and artificial, or caused by human action (culverts, stream alteration due to human action, etc.) (BioAnalysts 2019).

BioAnalysts (2019) identified three major barriers to fish movement in the Study Area: 1) EFSFSR upstream of the Yellow Pine Pit Lake (YPP) high gradient (location 02); 2) EFSFSR box culvert (location 203); and 3) Meadow Creek (location 05) (**Figure 1**). The EFSFSR upstream of the YPP Lake is a high-gradient cascade, which is a complete barrier to fish passage upstream of the cascade. The other two barriers, the EFSFSR box culvert and Meadow Creek, are partial barriers that block migration seasonally (i.e., flow-dependent), and only hinder migration of fish that reside in or were stocked upstream of the YPP barrier (**Figure 1**).

Three additional barriers were added to this report that were not identified by BioAnalysts (2019). The three additional barriers are alternative-dependent, and relate to excessive slopes (>25 percent) on potential Tailing Storage Facility/Development Rock Storage Facility (TSF/DRSF) embankment areas (**Figures 2** and **3**). These embankments occur at the following three areas: 1) in the Meadow Creek drainage area at the base of the proposed TSF/DRSF (Alternatives 1 and 2) (**Figure 2**); 2) the Fiddle Creek drainage area at the base of the Fiddle TSF (Alternatives 1, 2, and 3) (**Figure 2**); and 3) the base of the Upper EFSFSR TSF/DRSF embankment (Alternative 3) (**Figure 3**). All of these barriers are "artificial" and "complete," and they restrict upstream migration to all species at all times of year due to excessive slope. **Table 1** details all the barriers analyzed in this TM.

Impacts to fish habitat resulting from passage barriers were assessed in ArcGIS Pro (Version 2.4) by quantifying the extent (meters of habitat) of fish habitat upstream of each barrier.

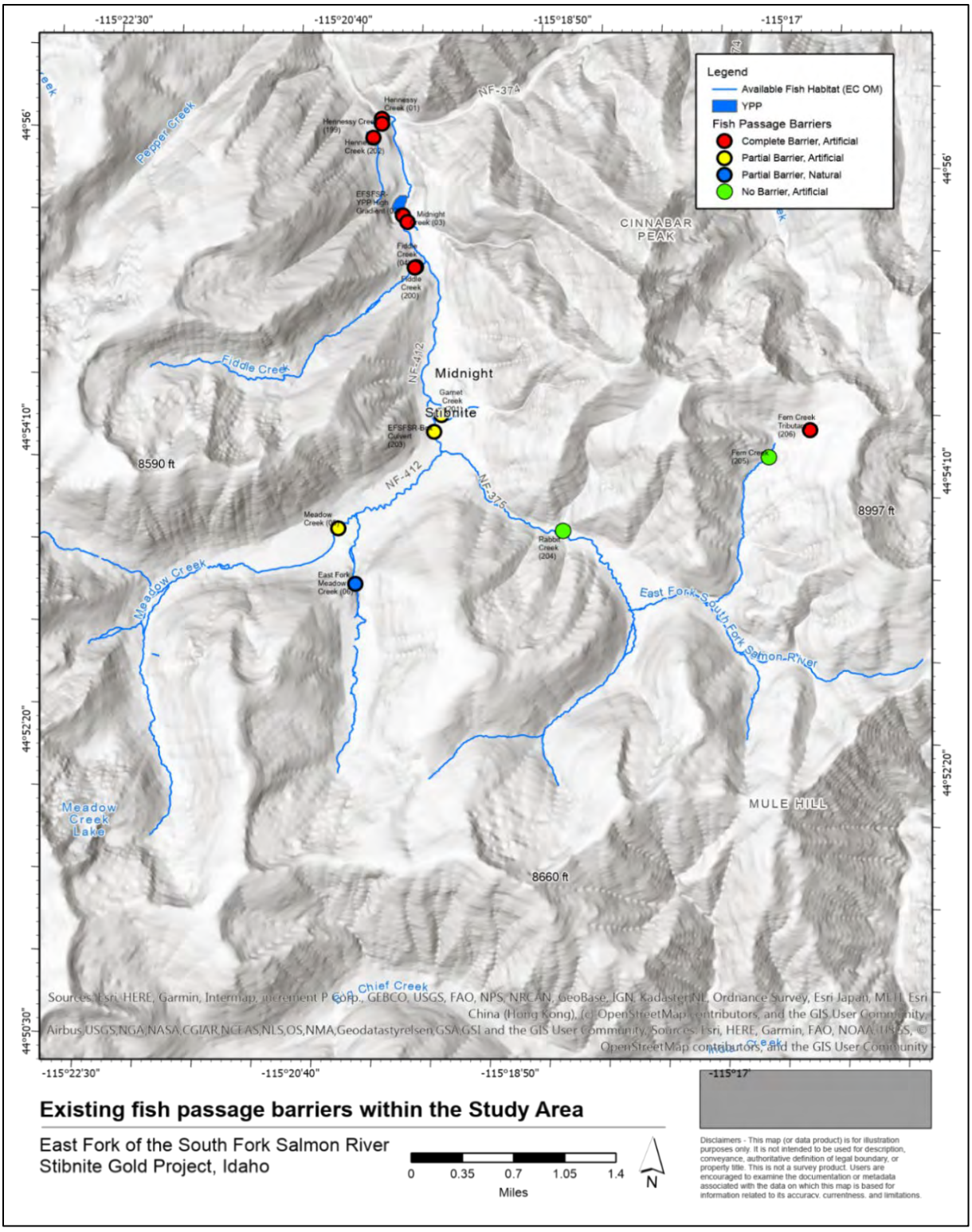



Figure Source: BioAnalysts 2019

**Figure 1. Potential Fish Passage Barriers Stibnite Gold Project Study Area**

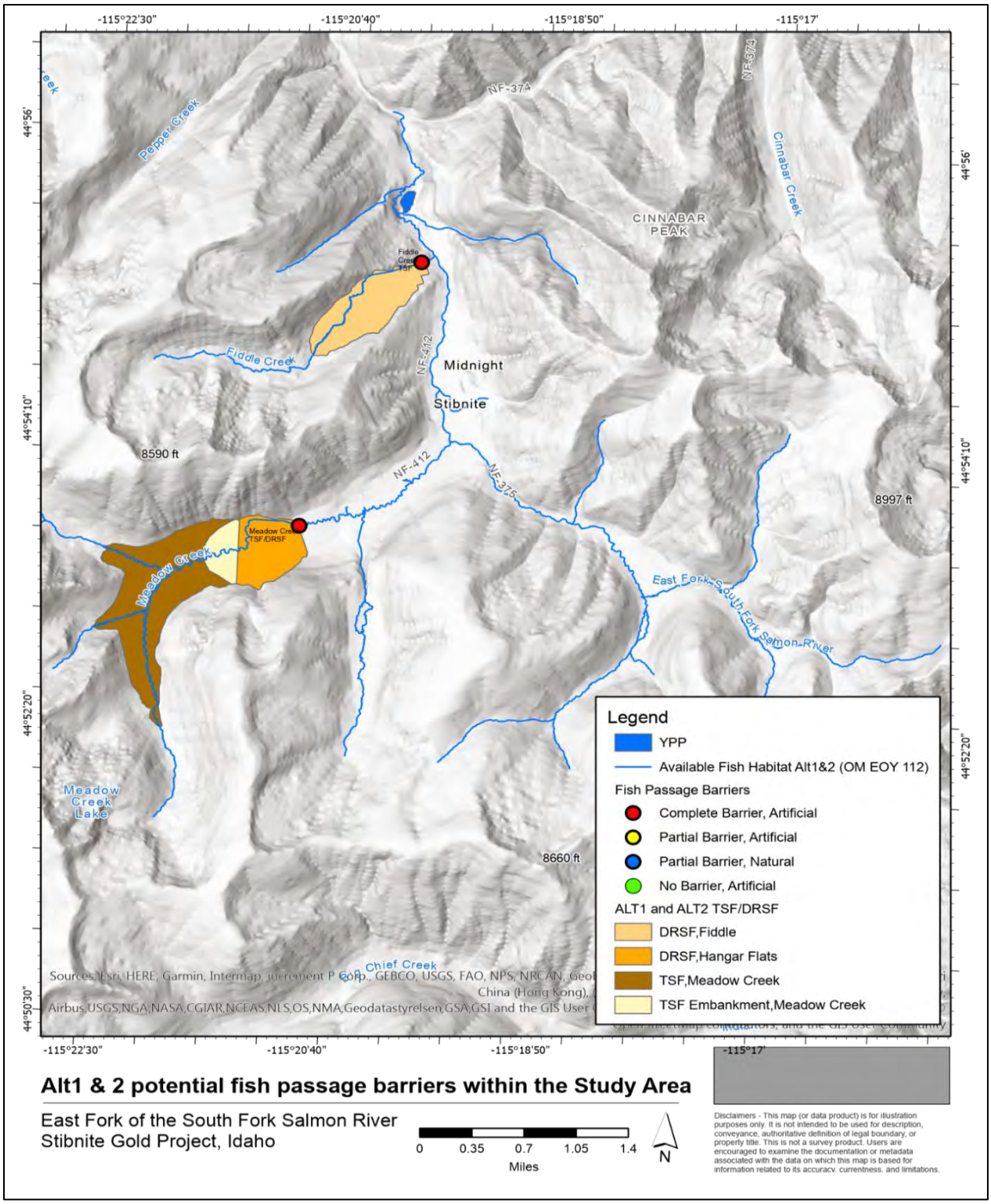



**Figure 2. Alternatives 1 and 2 Potential Fish Passage Barriers in the Stibnite Gold Study Area**

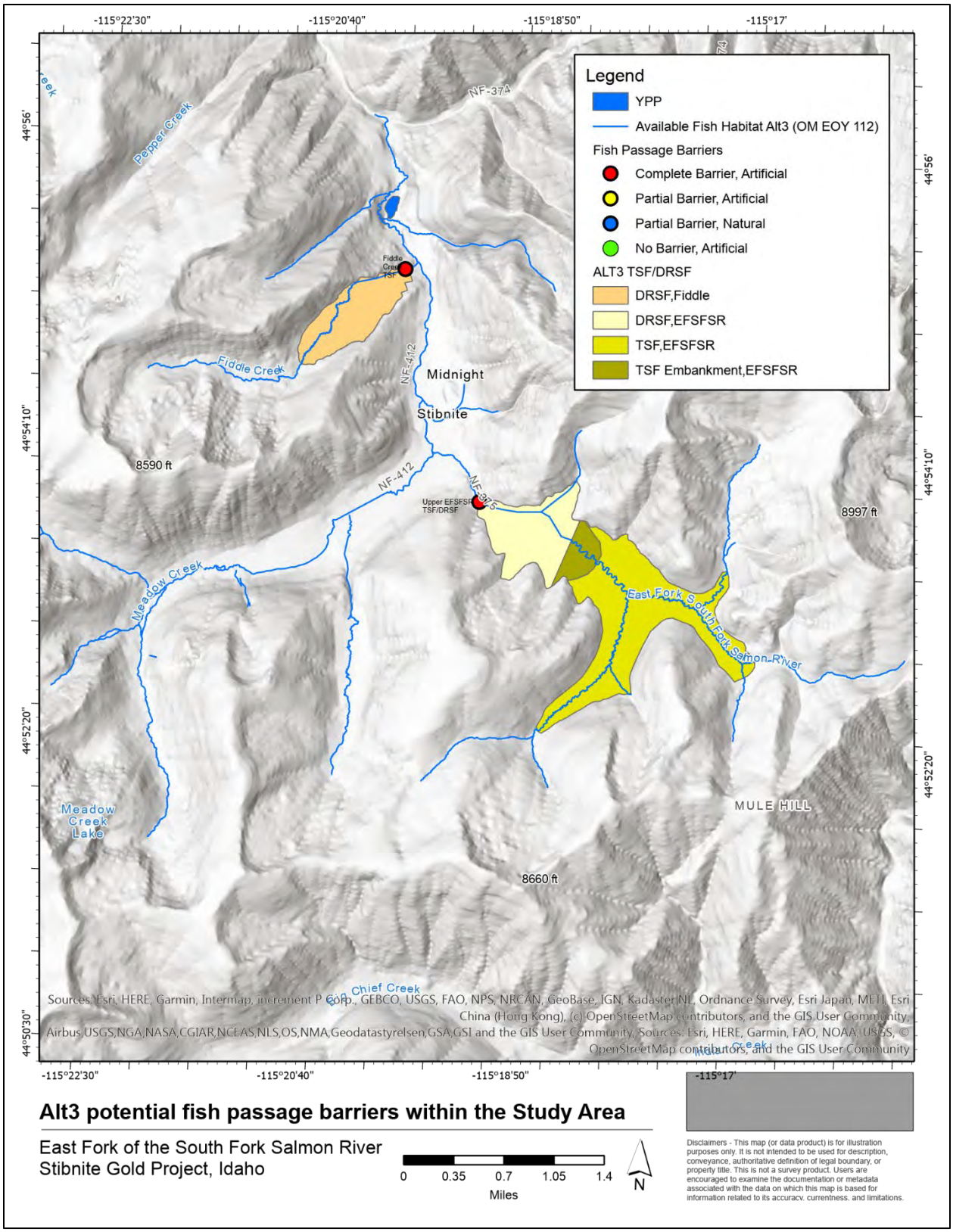



**Figure 3. Alternative 3 Potential Fish Passage Barriers in the Stibnite Gold Study Area**

Fish habitat evaluated by this analysis includes:

1. Critical habitat – for Chinook salmon (as defined by Ecosystem Sciences 2019a) and bull trout (USFWS 2010). There is no critical habitat for steelhead in the study area.
2. Intrinsic Potential (IP) – Spawning and early-rearing habitat for Chinook salmon and steelhead (Ecosystem Sciences 2019b). Useable habitat equates to all habitat ratings (High, Medium, Low, Negligible [only Chinook salmon]) per species summed to one number (meters of habitat).
3. Occupancy Model (OM) – Cutthroat trout and bull trout (Ecosystem Sciences 2019c). Used as a surrogate for available fish habitat for the two species.

Changes in the amount of available fish habitat were quantified for Baseline conditions, and per alternative (1, 2, and 3) for Years -2, -1, Year 12, Year 17, and Year 20 for Critical habitat and IP habitat. The occupancy model was performed for Baseline conditions, Year 6, Year 12, Year 18, and Year 112.

**Table 1. Fish Passage Barriers in the Stibnite Gold Project Study Area**

| Stream (Location Number) | Latitude | Longitude | Type | Status | |
|---|---|---|---|---|---|
| EFSFSR YPP High Gradient (02) | 44.9260 | -115.3348 | Artificial | Complete | Existing Barriers |
| EFSFSR Box Culvert (203) | 44.9024 | -115.3281 | Artificial | Partial | |
| Hennessy Creek (01) | 44.9357 | -115.3384 | Artificial | Complete | |
| Hennessy Creek (199) | 44.9332 | -115.3372 | Artificial | Complete | |
| Hennessy Creek (202) | 44.9318 | -115.3383 | Artificial | Complete | |
| Midnight Creek (03) | 44.9357 | -115.3384 | Artificial | Complete | |
| Fiddle Creek (04) | 44.9208 | -115.3329 | Artificial | Complete | |
| Fiddle Creek (200) | 44.9189 | -115.3321 | Artificial | Complete | |
| Garnet Creek (201) | 44.9062 | -115.3279 | Artificial | Partial | |
| Rabbit Creek (204) | 44.8931 | -115.3096 | Artificial | No Barrier | |
| Fern Creek (205) | 44.9014 | -115.2813 | Artificial | No Barrier | |
| Fern Creek Tributary (206) | 44.9044 | -115.2759 | Artificial | Complete | |
| Meadow Creek (05) | 44.8940 | -115.3416 | Artificial | Partial | |
| East Fork Meadow Creek (06) | 44.8885 | -115.3388 | Natural | Partial | |
| Fiddle Creek TSF | 44.9207 | -115.3330 | Artificial | Complete | Future Barriers |
| Meadow Creek TSF/DRSF | 44.8926 | -115.3475 | Artificial | Complete | |
| Upper EFSFSR TSF/DRSF | 44.8975 | -115.3210 | Artificial | Complete | |

# 2.0 RESULTS

Mine year changes equate to changes in habitat based on mine activity (e.g., DRSF/TSF creation, Hangar Flat Pit Lake filling, etc.) or stream enhancement/restoration. Results are summarized by habitat type (Critical, IP, and OM and by species, except for the results for the OM. The OM results are summarized for both species (cutthroat and bull trout), and labeled as available habitat. ***In the tables below, a zero (0) indicates that there is no habitat above the blockage, and NB (No Barrier) indicates that the barrier no longer exists due to*** **mining activity** (e.g., EFSFSR tunnel) or through restoration and enhancement (e.g., YPP restoration). There is some question regarding the effectiveness and efficacy of the EFSFSR tunnel to pass fish (USFWS 2019). The U.S. Fish and Wildlife Service (USFWS) notes, in a letter to Midas Gold dated October 3, 2019, "[E]ven after close consultation and collaboration with NMFS, meeting applicable NMFS passage criteria and guidelines, and executing all potential adaptive management measures, there exists a reasonable probability that the project will not be able to volitionally pass fish safely, timely, or effectively" (USFWS 2019). The results presented in this TM must be viewed in light of the USFWS's assessment of the effectiveness of the EFSFSR tunnel. Results are presented, with the assumption that the tunnel would allow volitional passage; however, other entities involved in the project have questioned the tunnel's ability to pass fish.

## 2.1 CRITICAL HABITAT – CHINOOK SALMON AND BULL TROUT

Access to Chinook salmon and bull trout critical habitat is currently blocked by several fish passage barriers identified in the study area (**Table 2**). Most notably, the YPP blocks over 26,000 meters of the 27,663 meters of available Chinook salmon habitat; and 17,000 meters of the 18,390 meters of existing bull trout habitat at Baseline (**Table 2**). Under Alternative 1 (proposed action), the YPP barrier would be removed in Year -1 with the construction of the EFSFSR tunnel. Similarly, the EFSFSR box culvert and Meadow Creek barriers would be removed in Year -1, resulting in a decrease in the amount of critical habitat blocked for Chinook salmon and bull trout. The Fern Creek (205) blockage (Chinook salmon) would remain throughout the mine's life. Post-closure, only the human-caused (artificial) Meadow Creek TSF/DRSF blockage would limit access to fish (**Table 2**).

**Table 2. Alternative 1 Chinook Salmon and Bull Trout Critical Habitat per Fish Passage Barrier**

| ALTERNATIVE 1 PRO | Chinook Salmon – Critical Habitat (meters) | | | | | | Bull Trout – Critical Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 26,493 | 19,695 | NB | NB | NB | NB | 17,111 | 11,710 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 22,962 | 16,165 | NB | NB | NB | NB | 13,785 | 9,118 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Garnet Creek (201) | 0 | 0 | 0 | 0 | NB | NB | 0 | 0 | 0 | 0 | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 | 166 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 6,797 | NB | NB | NB | NB | NB | 5,393 | NB | NB | NB | NB | NB |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | 5,509 | 5,509 | NB | NB | NB | NB | 4,667 | 4,667 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 |

Under Alternative 2, the amount of critical habitat for Chinook salmon and bull trout upstream of barriers would be the same as under Alternative 1. The YPP, box culvert, and steep section of Meadow Creek (near the Spent Ore Disposal Area) block access to critical habitat for Chinook salmon and bull trout (**Table 3**). By Year -1, these barriers would be removed (**Table 3**). The Fern Creek (205) blockage would remain throughout the mine's life (Chinook salmon). Post-closure, only the human-created (artificial) Meadow Creek TSF/DRSF blockage would limit access to Chinook salmon and bull trout (**Table 3**).

**Table 3. Alternative 2 Chinook Salmon and Bull Trout Critical Habitat per Fish Passage Barrier**

| ALTERNATIVE 2 MOD PRO | Chinook Salmon – Critical Habitat (meters) | | | | | | Bull Trout – Critical Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 26,493 | 19,695 | NB | NB | NB | NB | 17,111 | 11,710 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 22,962 | 16,165 | NB | NB | NB | NB | 13,785 | 9,118 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Garnet Creek (201) | 0 | 0 | 0 | 0 | NB | NB | 0 | 0 | 0 | 0 | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 | 166 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 6,797 | NB | NB | NB | NB | NB | 5,393 | NB | NB | NB | NB | NB |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | 5,509 | 5,509 | NB | NB | NB | NB | 4,667 | 4,667 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 |

Under Alternative 3, the amount of critical habitat for Chinook salmon and bull trout upstream of barriers varies from the conditions under Alternative 1 and Alternative 2. For example, with no mining activity occurring in Meadow Creek under Alternative 3, the barrier (location 05) that is preventing access to 6,797 meters of Chinook salmon critical habitat and 5,393 meters of bull trout critical habitat would remain in place for the duration of the mine's life (**Table 4**). Similar to Alternative 1 and Alternative 2, by Year -1, the major barriers along the EFSFSR (YPP [02] and box culvert [203]) would be removed, and critical habitat upstream of these barriers would be accessible (**Table 4**). The Fern Creek (205) barrier would remain throughout the life of the mine, and block access for Chinook salmon to potential critical habitat areas. Under Alternative 3, the Upper EFSFSR TSF/DRSF would block access to critical habitat for Chinook salmon (11,584 meters) and bull trout (6,520 meters) in perpetuity (**Table 4**).

**Table 4. Alternative 3 Chinook Salmon and Bull Trout Critical Habitat per Fish Passage Barrier**

| Alternative 3EFSFSR TSF | Chinook Salmon – Critical Habitat (meters) | | | | | | Bull Trout – Critical Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 26,493 | 12,991 | NB | NB | NB | NB | 17,111 | 10,754 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 22,962 | 10,049 | NB | NB | NB | NB | 13,785 | 8,154 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | NB | NB | NB | 0 |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | NB | NB | NB | 0 |
| Garnet Creek (201) | 0 | 0 | 0 | 0 | NB | NB | 0 | 0 | 0 | NB | NB | 0 |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 | 166 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 6,797 | 6,797 | 6,797 | 6,797 | 6,797 | 6,797 | 5,393 | 5,393 | 5,393 | 5,393 | 5,393 | 5,393 |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | 11,584 | 11,584 | NB | NB | NB | NB | 6,520 | 6,520 |
| Total Habitat (meters) | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 27,663 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 | 18,390 |

## 2.2 INTRINSIC POTENTIAL – CHINOOK SALMON AND STEELHEAD

Access to IP habitat (spawning and early-rearing habitat) for Chinook salmon and steelhead is blocked under Baseline conditions by three fish passage barriers found in the study area (**Table 5**). It is noted that the EFSFSR box culvert and the Meadow Creek (05) barrier are "partial" barriers, indicating that these barriers may not exist at all flows for all fish. Therefore, steelhead IP habitat may not be blocked by these barriers, because they spawn when flows are higher. The YPP blocks over 10,000 meters of Chinook salmon and nearly 9,000 meters of steelhead IP habitat at Baseline (**Table 5**). Under Alternative 1 (Proposed Action), the YPP barrier would be removed in Year -1 with the construction of the EFSFSR tunnel. Similarly, the EFSFSR box culvert and Meadow Creek barriers would be removed in Year -1, resulting in a decrease in the amount of spawning and early-rearing habitat blocked for Chinook salmon and steelhead. By the end of Year -1, there would be no IP habitat blocked by barriers in the study area until the construction of the embankments for the Meadow Creek TSF in Year 17. In that year, 1,909 meters of steelhead IP habitat would be blocked by the excessive gradient of Meadow Creek as it cascades off the TSF/DRSF (**Table 5**). No Chinook salmon habitat is blocked by the TSF/DRSF, because flows are insufficient to meet the wetted width minimum threshold for IP habitat (**Table 5**).

**Table 5. Alternative 1 Chinook Salmon and Steelhead IP Habitat per Fish Passage Barrier**

| ALTERNATIVE 1 PRO | Chinook Salmon – Useable Habitat (meters) | | | | | | Steelhead – Useable Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 10,209 | 7,986 | NB | NB | NB | NB | 8,530 | 6,936 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) * | 7,630 | 5,377 | NB | NB | NB | NB | 6,940 | 5,107 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Garnet Creek (201) | 0 | NB | NB | NB | NB | NB | 0 | NB | NB | NB | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) * | 2,219 | NB | NB | NB | NB | NB | 1,830 | NB | NB | NB | NB | NB |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 1,909 | 1,909 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 11,409 | 9,156 | 8,094 | 9,750 | 9,407 | 9,629 | 9,670 | 7,836 | 7,614 | 9,270 | 11,846 | 11,846 |

Table Notes:

*partial barriers may not be barriers to steelhead passage.

IP habitat for Chinook salmon and steelhead upstream of barriers under Alternative 2 would be the same as under Alternative 1. The YPP, box culvert, and steep section of Meadow Creek block access to IP habitat for Chinook salmon and steelhead (**Table 6**) under existing conditions. As mentioned previously, steelhead habitat may not be blocked at the EFSFSR box culvert or the Meadow Creek barrier, because these barriers are partial (**Table 6**). Like Alternative 1, under Alternative 2 by Year -1, all existing habitat barriers would be removed; or there is no IP habitat upstream of the remaining barriers (**Table 6**). In Year 17, the TSF/DRSF in Meadow Creek would be finalized, and a new barrier to fish passage would be created (**Table 6**). In Year 17, 1,909 meters of steelhead IP habitat would be blocked by the excessive gradient of Meadow Creek at the TSF/DRSF (**Table 6**). No Chinook salmon habitat would be blocked by the TSF/DRSF, because flows are insufficient to meet the wetted width minimum threshold for IP habitat (**Table 6**).

**Table 6. Alternative 2 Chinook Salmon and Steelhead IP Habitat per Fish Passage Barrier**

| ALTERNATIVE 2 MOD PRO | Chinook Salmon – Useable Habitat (meters) | | | | | | Steelhead – Useable Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 10,209 | 7,986 | NB | NB | NB | NB | 8,530 | 6,936 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) * | 7,630 | 5,377 | NB | NB | NB | NB | 6,940 | 5,107 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Garnet Creek (201) | 0 | NB | NB | NB | NB | NB | 0 | NB | NB | NB | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) * | 2,219 | NB | NB | NB | NB | NB | 1,830 | NB | NB | NB | NB | NB |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 1,909 | 1,909 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 11,409 | 9,156 | 8,094 | 9,750 | 9,407 | 9,629 | 9,670 | 7,836 | 7,614 | 9,270 | 11,846 | 11,846 |

Table Notes:

*partial barriers may not be barriers to steelhead passage.

Under Alternative 3, IP habitat upstream of barriers for Chinook salmon and steelhead would be different than under Alternative 1 and Alternative 2. For example, with no mining activity occurring in Meadow Creek under Alternative 3, 1,830 meters of steelhead IP habitat would remain blocked for the duration of the mine's life (**Table 7**). Again, this is a partial barrier, so this may not be a blockage to steelhead if flows are sufficient. Based on the IP results for Chinook salmon, Meadow Creek wetted widths would be insufficient to support spawning and early-rearing habitat for the species under Alternative 3 (red highlighted cell in **Table 7**). Therefore, there is no Chinook salmon IP habitat upstream of the Meadow Creek barrier (**Table 7**). Similar to Alternative 1 and Alternative 2, by Year -1, the major barriers along the EFSFSR (YPP and box culvert) would be removed, and IP habitat upstream of these barriers would be accessible (**Table 7**). Due to the Upper EFSFSR TSF/DRSF, starting in Year 17, 1,930 meters of steelhead spawning and early-rearing habitat would be blocked by the high-gradient section of the EFSFSR flowing off the TSF/DRSF embankment (**Table 7**).

**Table 7. Alternative 3 Chinook Salmon and Steelhead IP Habitat per Fish Passage Barrier**

| Alternative 3EFSFSR TSF | Chinook Salmon – Useable Habitat (meters) | | | | | | Steelhead – Useable Habitat (meters) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Block ID | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 | Baseline | EOY -2 | EOY -1 | EOY 12 | EOY 17 | EOY 20 |
| EFSFSR YPP (02) | 10,209 | 5,410 | NB | NB | NB | NB | 8,530 | 4,719 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) * | 7,630 | 2,831 | NB | NB | NB | NB | 6,940 | 4,660 | NB | NB | NB | NB |
| Hennessy Creek (01) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (199) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Hennessy Creek (202) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Fiddle Creek (200) | 0 | 0 | 0 | NB | NB | NB | 0 | 0 | 0 | NB | NB | NB |
| Garnet Creek (201) | 0 | NB | NB | NB | NB | NB | 0 | NB | NB | NB | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) * | 2,219 | 0 | 0 | 0 | 0 | 0 | 1,830 | 1,830 | 1,830 | 1,830 | 1,830 | 1,830 |
| East Fork Meadow Creek (06) | 0 | 0 | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 0 | 0 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB | NB |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | 0 | 0 | NB | NB | NB | NB | 1,930 | 1,930 |
| Total Habitat (meters) | 11,409 | 6,611 | 5,702 | 7,351 | 6,238 | 6,238 | 9,670 | 7,389 | 7,171 | 8,820 | 9,743 | 9,743 |

Table Notes:

*partial barriers may not be barriers to steelhead passage.

## 2.3 OCCUPANCY MODEL – WEST SLOPE CUTTHROAT TROUT AND BULL TROUT

The OM (Ecosystem Sciences 2019c) results show available fish habitat for westslope cutthroat trout and bull trout (and a surrogate for all other fish species' maximum extent of habitat). Available habitat for these species is more abundant than Critical and IP habitats, and therefore, the barriers impact a greater extent of available habitat. Under Alternative 1 (proposed action), available habitat for cutthroat and bull trout would be blocked throughout the study area (**Table 8**). Major barriers associated with the YPP and the box culvert would be removed by Year 6 (**Table 8**). By Year 18, following mine actions (e.g., EFSFSR tunnel) and stream enhancement and restoration, the major blockages would be removed, and available habitat would be blocked only in non-enhanced reaches (Fern Creek) and TSF/DRSF (Meadow Creek and Fiddle Creek) high-gradient areas (**Table 8**). These two areas, Fiddle Creek and Upper Meadow Creek, would remain blocked in perpetuity due to the high-gradient stream segments flowing off the TSF/DRSF (**Table 8**).

**Table 8. Alternative 1 Fish Habitat for Cutthroat and Bull Trout per Fish Passage Barrier and Total Habitat Available**

| Alternative 1 PRO | Available Fish Habitat (meters) | | | | |
|---|---|---|---|---|---|
| **Block ID** | **Baseline** | **Year 6** | **Year 12** | **Year 18** | **Year 112** |
| EFSFSR YPP (02) | 39,737 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 31,575 | NB | NB | NB | NB |
| Hennessy Creek (01) | 1,048 | 1,048 | NB | NB | NB |
| Hennessy Creek (199) | 1,048 | 1,048 | NB | NB | NB |
| Hennessy Creek (202) | 1,048 | 1,048 | NB | NB | NB |
| Midnight Creek (03) | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 4,143 | 2,110 | NB | NB | NB |
| Fiddle Creek (200) | 4,143 | 2,110 | NB | NB | NB |
| Garnet Creek (201) | 518 | NB | NB | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 9,637 | 2,132 | 2,132 | NB | NB |
| East Fork Meadow Creek (06) | 2,398 | 2,398 | 2,398 | 2,398 | 2,398 |
| Fiddle Creek TSF | NB | NB | 3,949 | 3,949 | 3,949 |
| Meadow Creek TSF/DRSF | NB | NB | NB | 9,247 | 9,247 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 41,700 | 28,913 | 33,068 | 41,190 | 41,190 |

Under Alternative 2, blocked available habitat for cutthroat trout and bull trout would be the same as under Alternative 1, with one notable exception; Hennessey Creek (**Table 9**). Under Alternative 2, Hennessey Creek would not be routed into the EFSFSR tunnel; therefore, no available habitat would be blocked by Year 6 (**Table 9**). Major barriers associated with the YPP and the box culvert would be removed by Year 6 (**Table 9**). By Year 18, following mine actions (e.g., EFSFSR tunnel) and stream enhancement and restoration, available habitat would only be blocked by fish passage barriers associated with the TSF/DRSF (**Table 9**). These two barriers (Fiddle Creek and Upper Meadow Creek TSF/DRSFs) would hinder access to cutthroat trout and bull trout (**Table 9**).

**Table 9. Alternative 2 Available Habitat for Cutthroat Trout and Bull Trout per Fish Passage Barrier and Available Habitat**

| ALTERNATIVE 2 MOD PRO | Available Fish Habitat (meters) | | | | |
|---|---|---|---|---|---|
| Block ID | Baseline | Year 6 | Year 12 | Year 18 | Year 112 |
| EFSFSR YPP (02) | 39,737 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 31,575 | NB | NB | NB | NB |
| Hennessy Creek (01) | 1,048 | NB | NB | NB | NB |
| Hennessy Creek (199) | 1,048 | NB | NB | NB | NB |
| Hennessy Creek (202) | 1,048 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 4,143 | 2,110 | NB | NB | NB |
| Fiddle Creek (200) | 4,143 | 2,110 | NB | NB | NB |
| Garnet Creek (201) | 518 | NB | NB | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 9,637 | 2,132 | 2,132 | NB | NB |
| East Fork Meadow Creek (06) | 2,398 | NB | NB | NB | NB |
| Fiddle Creek TSF | NB | NB | 3,895 | 3,895 | 3,895 |
| Meadow Creek TSF/DRSF | NB | NB | NB | 9,145 | 9,145 |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | NB | NB |
| Total Habitat (meters) | 41,700 | 28,830 | 32,600 | 41,801 | 41,801 |

Under Alternative 3, available habitat for cutthroat trout and bull trout would be different than under Alternative 1 and Alternative 2. For example, with no mining activity occurring in Meadow Creek under Alternative 3, over 9,000 meters of available habitat would remain blocked for the duration of the mine's life (**Table 10**). By Year 6, the major blockages along the EFSFSR would be removed. Overall, under Alternative 3, by Year 18, all available habitat that was blocked by a fish passage barrier would be available, except for the aforementioned Meadow Creek area upstream of the existing fish passage barrier Meadow Creek (05) and Fern Creek (205) (**Table 10**). Also, in Year 18, the Upper EFSFSR upstream of Meadow Creek would experience a significant blockage due to the TSF/DRSF. This facility would block access to over 15,000 meters of fish habitat (**Table 10**).

**Table 10. Alternative 3 Available Habitat for Cutthroat Trout and Bull Trout per Fish Passage Barrier**

| Alternative 3 EFSFSR TSF | Available Fish Habitat (meters) | | | | |
|---|---|---|---|---|---|
| **Block ID** | **Baseline** | **Year 6** | **Year 12** | **Year 18** | **Year 112** |
| EFSFSR YPP (02) | 39,737 | NB | NB | NB | NB |
| EFSFSR Box Culvert (203) | 31,575 | NB | NB | NB | NB |
| Hennessy Creek (01) | 1,048 | NB | NB | NB | NB |
| Hennessy Creek (199) | 1,048 | NB | NB | NB | NB |
| Hennessy Creek (202) | 1,048 | NB | NB | NB | NB |
| Midnight Creek (03) | 0 | NB | NB | NB | NB |
| Fiddle Creek (04) | 4,143 | 2,110 | NB | NB | NB |
| Fiddle Creek (200) | 4,143 | 2,110 | NB | NB | NB |
| Garnet Creek (201) | 518 | 518 | 518 | NB | NB |
| Rabbit Creek (204) | 0 | 0 | 0 | 0 | 0 |
| Fern Creek (205) | 166 | 166 | 166 | 166 | 166 |
| Fern Creek Tributary (206) | 0 | 0 | 0 | 0 | 0 |
| Meadow Creek (05) | 9,637 | 9,453 | 9,453 | 9,453 | 9,453 |
| East Fork Meadow Creek (06) | 2,398 | 2,398 | 2,398 | NA | NA |
| Fiddle Creek TSF | NB | NB | 3,895 | 3,895 | 3,895 |
| Meadow Creek TSF/DRSF | NB | NB | NB | NB | NB |
| Upper EFSFSR TSF/DRSF | NB | NB | NB | 15,649 | 15,649 |
| Total Habitat (meters) | 41,700 | 28,200 | 31,949 | 41,871 | 41,941 |

# 3.0 DISCUSSION

There are three major barriers to fish movement in the Study Area Upper EFSFSR upstream of the confluence with Sugar Creek: 1) EFSFSR YPP high gradient (02); 2) EFSFSR box culvert (203); and 3) Meadow Creek (05) (**Figure 1**). The EFSFSR YPP high gradient is a complete barrier to fish passage, restricting all species from accessing the Upper EFSFSR upstream of the existing cascade. Additionally, the YPP barrier "available fish habitat" values cited in **Table 2** through **Table 10** (Section 2.0, Results) include all other barriers, because those barriers are upstream of the YPP (**Figure 1**). Therefore, the other two barriers, the EFSRSR box culvert and Meadow Creek, which are partial barriers that block migration seasonally (i.e., flow-dependent), only hinder migration of fish that reside or were stocked upstream of the YPP barrier. These three barriers are "major," because they have an impact on critical habitat, IP habitat, and OM habitat availability, while other barriers do not.

Under all three alternatives, Chinook salmon and bull trout critical habitat access is restricted by the three primary barriers, two of which are seasonally restricted (**Figure 4**). Most notably, the YPP blocks over 26,000 meters of Chinook salmon and 17,000 meters of bull trout habitat under Baseline conditions, for a total of 43,000 meters of critical habitat that are not accessible to the two species (**Figure 4**). Under Alternatives 1, 2, and 3, by Year -1, the EFSFSR tunnel would be operating, so the YPP would no longer block access to upstream Chinook salmon and bull trout critical habitat (**Figure 4**). Additionally, under Alternatives 1 and 2, the EFSFSR box culvert and Meadow Creek barriers would be removed due to stream enhancement by Year -1. Therefore, barriers to critical habitat for Chinook salmon and bull trout would no longer exist (**Figure 4**). Under Alternative 3, no action occurs in the Meadow Creek watershed; therefore, the Meadow Creek barrier would continue to block Chinook salmon and bull trout habitat in perpetuity (**Figure 4**).

The Fiddle Creek TSF does not block critical habitat for Chinook salmon or bull trout under any alternative. The Meadow Creek TSF/DRSF blocks Chinook salmon and bull trout critical habitat starting in Year 18 (**Tables 2** and **3**) (**Figure 4**). Under Alternatives 1 and 2, the Meadow Creek TSF/DRSF blocks 5,509 meters of Chinook salmon critical habitat and 4,667 meters of bull trout habitat (**Tables 2** and **3**) (**Figure 4**). These areas are blocked in perpetuity. Under Alternative 3, only the Upper EFSFSR TSF/DRSF is a barrier to fish movement, starting in Year 18, when this barrier blocks access to 11,584 meters of Chinook salmon critical habitat and 6,520 meters of bull trout critical habitat (**Table 4** and **Figure 4**).

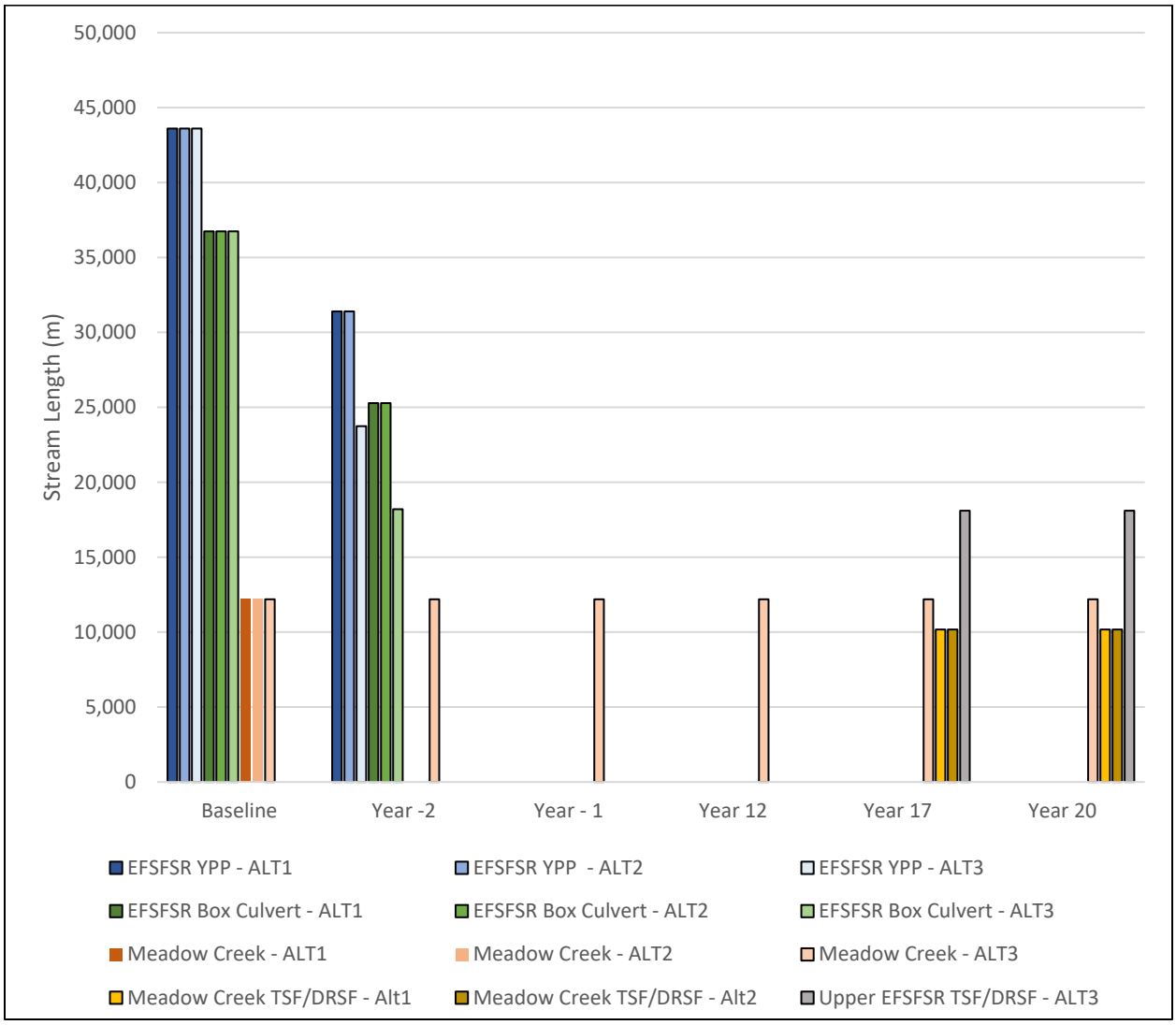



**Figure 4. Critical Habitat (Chinook Salmon and Bull Trout Combined) per Barrier per Alternative per Year**

Under all three alternatives, Chinook salmon and steelhead IP habitat is blocked by the three primary barriers; two (Meadow Creek and EFSFSR Box Culvert) of which are seasonal, and may not impact steelhead IP habitat (**Figure 5**). The primary barrier, the YPP high gradient, blocks over 10,000 meters of Chinook salmon and nearly 8,800 meters of steelhead IP habitat under Baseline conditions; a total of nearly 18,800 meters of IP habitat that are not accessible to the two species (**Tables 5** through **7**) (**Figure 5**). Under Alternatives 1, 2, and 3, by Year -1, the EFSFSR tunnel would be operating, and the YPP would no longer block access to upstream Chinook salmon and steelhead IP habitat (**Figure 5**). Again, similar to the critical habitat results, under Alternatives 1 and 2, the EFSFSR box culvert and Meadow Creek barriers would be removed due to stream enhancement by Year -1, indicating that barriers to critical habitat for the two species would no longer persist in the study area. Under Alternative 3, no action would occur in the Meadow Creek watershed; therefore, the Meadow Creek barrier would continue to

hinder access to Chinook salmon and steelhead IP habitat beyond the life of the mine (**Figure 5**).

The extent of IP habitat is less than critical habitat; therefore, the extent of IP habitat blocked by the TSF/DRSFs is much less than critical habitat. Fiddle Creek does not support IP habitat, so the Fiddle Creek TSF does not block spawning and early rearing for Chinook salmon and steelhead under any alternative. The Meadow Creek TSF/DRSF does not block Chinook salmon IP habitat under any alternative, because flows are too low to support the species (i.e., flows do not meet the minimum wetted width of 3.6 meters [Cooney and Holzer 2006]). Starting in Year 18 under Alternatives 1 and 2, the Meadow Creek TSF/DRSF blocks 1,909 meters of steelhead IP (**Tables 5** and **6,** and **Figure 5**). These areas are blocked in perpetuity. Under Alternative 3, only the Upper EFSFSR TSF/DRSF is a barrier to fish movement; and starting in Year 18, blocks access to 1,930 meters of steelhead IP habitat (**Table 7**) (**Figure 5**). This blockage of steelhead IP habitat remains in perpetuity.

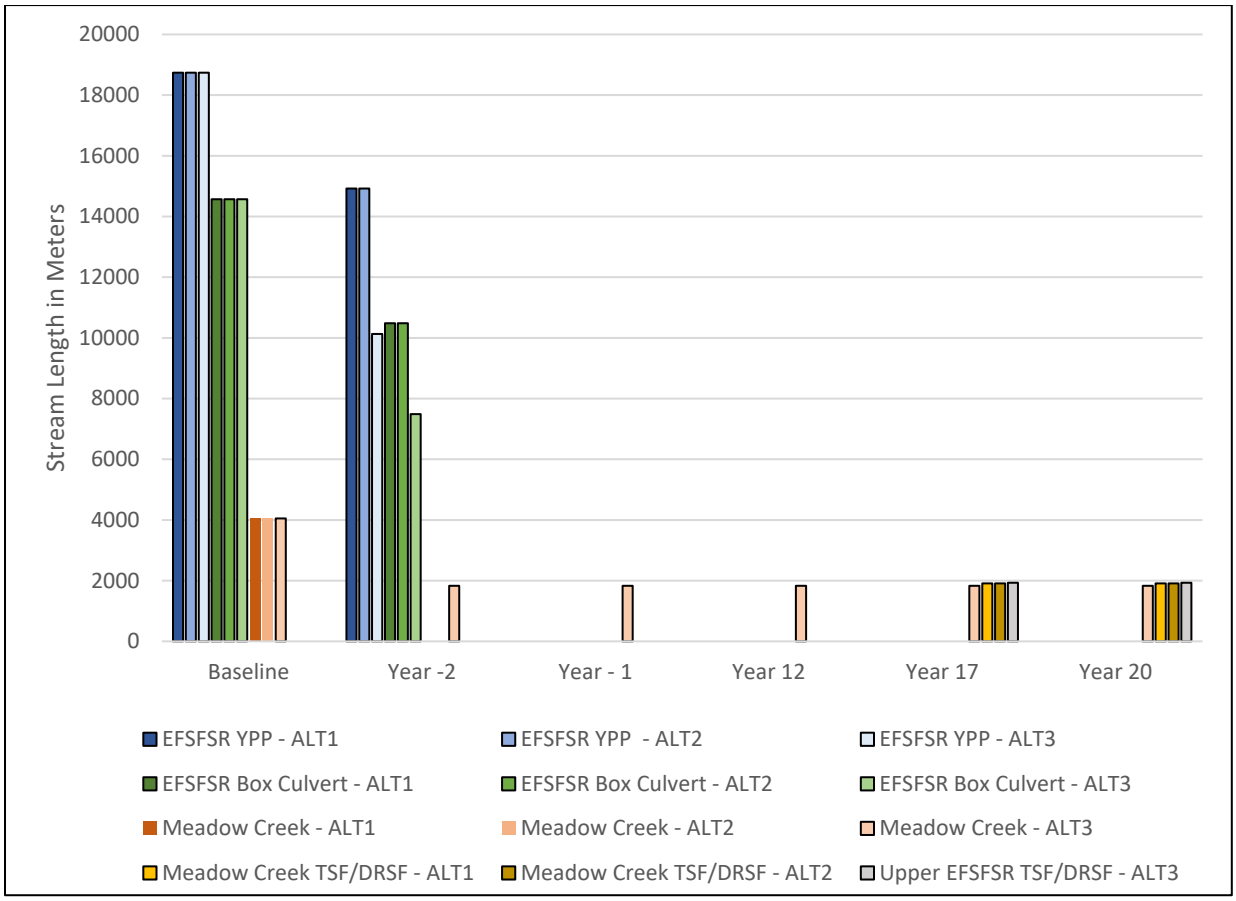



**Figure 5. Intrinsic Potential Habitat (Chinook Salmon and Steelhead Combined) per Barrier per Alternative per Year**

The OM (Ecosystem Sciences 2019c) results show "available fish habitat" for westslope cutthroat trout and bull trout (and a surrogate for all other fish species' maximum extent of habitat). Overall, general "available fish habitat" is more abundant than Critical and IP habitats; therefore, the barriers impact a greater extent of available habitat. Barriers in Hennessey Creek, Fiddle Creek, Fern Creek, and Garnet Creek, for example, exist and block access to fish habitat (**Tables 8** through **10**). Under Alternatives 1 and 2, available habitat for cutthroat trout and bull trout (or all fish species) would be blocked throughout the study area (**Tables 8** and **9**). Major barriers associated with the YPP and the box culvert would be removed by Year 6 (**Table 8**). Following mine actions (e.g., EFSFSR tunnel) and stream enhancement and restoration, by Year 12, only Fern Creek (205), Meadow Creek (05), and the Fiddle Creek TSF would block available fish habitat under Alternatives 1 and 2 (**Tables 8** and **9**). Post-Year 18, only small portions of the upper watershed (Fern Creek), the Fiddle Creek TSF, and the Meadow Creek TSF/DRSF would block available fish habitat (**Tables 8** and **9**).

Under Alternative 3, available fish habitat would be blocked throughout the study area. Similar to the critical habitat and IP results, under Alternative 3, available fish habitat upstream of the Meadow Creek barrier would remain blocked beyond the mine's life (**Table 10**). The Upper EFSFSR TSF/DRSF blocks 15,649 meters of available fish habitat in perpetuity (**Table 10**).

Overall, the actions that would occur during the project would increase access to fish habitat throughout the study area. Under Alternatives 1 and 2, only habitat upstream of the TSF/DRSFs would remain blocked once the mining activity ceases. Under Alternative 3, the Meadow Creek blockage would remain in perpetuity, as well as the fish habitat upstream of the Upper EFSFSR TSF/DRSF. It is reiterated that there are some questions regarding the efficacy of the EFSFSR tunnel to allow volitional fish passage (USFWS 2019). Therefore, all results presented herein must be viewed in the context that the EFSFSR tunnel may not improve fish passage in the EFSFSR; in fact, it may be a barrier to fish passage (USFWS 2019).

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# Appendix J-4: Intrinsic Potential Technical Memoranda

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# INTRINSIC POTENTIAL MODEL CHINOOK SALMON AND STEELHEAD

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

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Ecosystem Sciences

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Project Title: Stibnite Gold Project

# Technical Memorandum

Subject: Intrinsic Potential Model Chinook Salmon and Steelhead

Date: November 22, 2019

To: AECOM

From: Ecosystem Sciences, LLC

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# Definitions

| | |
|---|---|
| Assessment (SFA) | Mine site area for which the Stream Functional Assessment was performed or for the ESRI shapefile with the same name. |
| Bankfull width | The difference (length) between the banks at bankfull discharge. |
| DEM | Digital Elevation model. |
| ESA group | Organizations consistently involved in approximately monthly meetings during the informal consultation process. The principal agencies were USFS, USFWS, USACE, NOAA Fisheries, and Midas Gold. There were occasional members and numerous consultants who all participated in the group. |
| ESA | Endangered Species Act. |
| GIS | Geographic Information System. |
| Intrinsic Potential (IP) | The potential for a stream reach to contain spawning and early rearing habitat for the species of interest based on the reach's geomorphic characteristics. For this report IP categories are defined by Cooney and Holzer (2006). |
| Lidar | Light detection and ranging. |
| Midas Gold | Midas Gold Idaho, Inc. |
| NHD | National Hydrography Dataset. |
| NOAA | National Oceanic and Atmospheric Administration. This acronym generally refers to NOAA Fisheries. |
| PIBO data | Baseline data collected according to the PACFISH/INFISH Biological Opinion Monitoring (PIBO) program protocol as part of the Stibnite Gold Project Aquatic Resources 2016 Baseline Study (MWH 2017) and supplied in excel spreadsheet form by Midas Gold. |
| Rio ASE data | Data collected by Rio ASE as part of the Stibnite Gold Project Stream Design Report (Rio ASE 2018). |
| Streamlines | The ESRI ArcMap shapefile that estimates the precise location of the stream watercourses within the study area. |
| USACE | U.S. Army Corps of Engineers. |
| USFWS | U.S. Fish and Wildlife Service. |
| USFS | U.S. Forest Service. |
| Valley Bottom Ratio | The ratio between the width of the valley bottom and the bankfull width. |
| V-BET | Valley Bottom Extraction Tool – a GIS tool developed to determine the width of the valley bottom of a stream (Gilbert et al. 2016). |
| Wetted width | The wetted width of the stream during the late-summer to early fall baseflow season. |

# 1.0 INTRODUCTION

This Technical Memorandum presents the methods and results of the baseline conditions Intrinsic Potential (IP) model for Spring/Summer Chinook salmon (*Oncorhynchus tshawytscha)* and Interior Columbia Basin (Snake River) steelhead (*Oncorhynchus mykiss)* in the mine site (see Study Area section for details on the model domain). The goal of the analysis was to derive the IP rating for streams in the study area that support spawning and early-rearing habitat for the two species. The IP model classifies the quality of spawning and rearing habitat for the two species in the stream reaches; from the confluence of Sugar Creek and the Upper East Fork South Fork Salmon River (EFSFSR) upstream to the headwaters of both streams (Hydrologic Unit Code [HUC] 12s: Sugar Creek and Headwaters East Fork South Fork Salmon River – **Figure 1**. This modeling effort and results support the analysis of impacts to fish and fish habitat based on the proposed project actions in the project mine site.

Section 1 describes the process through which the model domain and site-specific modeling methods were determined (through a consultation process and adaptation of an existing regional IP model to the project scale and potential impacts). Section 2 then defines the model domain. Section 3 describes the existing regional model's methods, errata, and results. Section 4 describes the study area's final model methods, including assumptions, modeling procedure, data sources, and tools employed. Section 5 presents the results of the study area model for reaches and sub-watersheds of interest. Section 6 describes the Quality Assurance and Quality Control procedures. Section 7 discusses the study area results in relation to the exiting regional model, and between key sub-watersheds.

## 1.1 CONSULTATION

This modeling effort is a result of an extensive consultation process involving members of the Endangered Species Act (ESA) fish informal consultation group (ESA group[1]) involved in the Stibnite Gold EIS. The original concept and approach to adapting an existing IP model for the region, which is documented in the publication "Appendix C: Interior Columbia Basin Stream Type Chinook Salmon and Steelhead Populations: Habitat Intrinsic Potential Analysis" (Cooney and Holzer 2006), was originally presented to the ESA group on February 7, 2018. Over the course of the next year and half, the methods, data inputs, analysis, and results were discussed on numerous conference calls, in-person meetings, and via email correspondence. Numerous presentations were made at informal ESA consultation meetings beginning in June 2018, and generally reoccurring monthly. Information presented at these meetings included, but was not limited to: categorical scoring of Cooney and Holzer (2006); derivation and refinement of the streamlines (the geographic information system [GIS] shapefile used to represent the specific location of the streams in the landscape) to be used; stream segmentation process; derivation of bankfull width; derivation of wetted width; slope calculations; valley bottom width tool (V-BET); sensitivity analysis of V-BET; the utility of applying intrinsic or extrinsic screens; results for example reaches; comparison between Cooney and Holzer (2006) results in Sugar Creek with preliminary modeling results; and the preliminary baseline modeling results (the subject of this memo). Numerous modeling decisions regarding scale, data inputs, etc., were made based on ESA group input. For example, the decision not to apply any intrinsic or extrinsic screens to the IP model was based on feedback from the ESA Group provided during meetings and presentations.

[1] ESA group consisted of USFS, USFWS, NOAA Fisheries, Midas Gold, and USACE. These entities constituted the core group of participants; however, other entities occasionally attended meetings.

# 2.0 STUDY AREA

The study area for the IP model includes the stream courses in the Upper East Fork South Fork Salmon River watershed (HUC 10 – 1706020802). Two HUC 12s are included in the study area: Headwaters East Fork South Fork Salmon River (HUC 12 – 170602080201); and Sugar Creek (HUC 12 – 1706020803) (**Figure 1**). Special attention was paid to the stream reaches delineated by the Stream Functional Assessment (SFA), focusing on specific impact areas in the mine site. A portion of the EFSFSR downstream of the confluence with Sugar Creek was rated for intrinsic potential to ensure full coverage of project-related impacts at the mine site (**Figure 1**).

# 3.0 EXISTING REGIONAL INTRINSIC POTENTIAL MODEL AND METHODOLOGY

Following consultation with the U.S. Forest Service (USFS), National Oceanographic and Atmospheric Administration (NOAA), and other members of the ESA group, it was decided that building an IP Model for the mine site could provide information needed to support the analysis of project impacts and other associated environmental documentation and determinations. The approach to modeling is based primarily on existing IP modeling efforts and summary reports (e.g., Cooney and Holzer 2006; and a review by Sheer et al. 2009). Where the existing regional models were designed to characterize large areas and were based on coarse data sets (Cooney and Holzer [2006] relied on 200-meter stream segments and 10-meter digital elevation models), the IP model for this project builds off Cooney and Holzer's IP model for the Interior Columbia Basin (Cooney and Holzer 2006), and adapts it to the local scale (Upper EFSFSR), granularity of study area data sets, and its pre-defined reaches; which will enable future efforts to evaluate the proposed actions and alternatives associated with the project. Using both GIS-derived and empirical field observations, the modeling effort evaluates stream-reach geomorphic conditions (i.e., wetted width, bankfull width, stream gradient, and floodplain width) and their ability to support spawning and early-rearing habitat for Chinook salmon and steelhead.

Historically, IP models have been commonly used to estimate the historic distribution of species, and to identify areas for strategic implementation of conservation actions or habitat restoration. Such analysis is generally applied at larger scales than this study area (e.g., South Fork of the Salmon River or larger). However, due to the availability of high-resolution data for the mine site ( light detection and ranging [LiDAR] and extensive field data for multiple parameters, [i.e., PACFISH/INFISH Biological Opinion Monitoring Program (PIBO) data], as well as field data collected by Rio ASE), the application of an IP approach provides a valuable reach-specific analysis of Chinook and steelhead habitat conditions that can be used to compare existing conditions to interim and post-closure conditions (i.e., the Proposed Action).

The study area methodology detailed below (in Section 5.0) follows the physical habitat IP approach developed by Cooney and Holzer (2006) for the Interior Columbia Basin (**Figure 2**). This modeling effort was developed and revised by many experts, and forms the basis of the modeling effort adapted to the study area scale. **Figure 2** details Cooney and Holzer's (2006) matrix for determining the IP classification per stream reach. The IP model is a categorical classification of habitat quality, rather than a continuous classification of habitat (e.g., index values, habitat suitability criteria); therefore, it has a limited number of categories into which each reach is classified. Classifications for each stream reach range from None (no intrinsic potential to support habitat) to High (likely to provide habitat), with low and medium classifications in between (with the additional classification of Negligible for Chinook salmon). During the course of the consultation process, NOAA (via personal communication from Johanna Sandow – email

dated August 28, 2018) provided edits to the matrix in **Figure 2**, noted in red. The changes NOAA provided relate only to Chinook salmon, in which the first category is wetted width, not bankfull width (an errata in the original model documentation). Minimum wetted width for Chinook salmon is 3.6 meters. The Chinook salmon IP also has a category termed Negligible; this category is not found in the steelhead IP model (**Figure 2**).

## 3.1 INTRINSIC POTENTIAL RESULTS – COONEY AND HOLZER 2006

The Cooney and Holzer (2006) model results depict no Chinook habitat upstream of the Yellow Pine Pit (YPP), but do indicate suitable habitat conditions for steelhead above the YPP (**Figure 3**). The Cooney and Holzer (2006) modeling effort was developed and revised by many experts, and forms the basis for the modeling effort adapted to the project-scale study area.

In the study area (Sugar Creek and the Upper EFSFSR), Cooney and Holzer's IP model indicated that roughly 1,803 meters (4 percent of the study area) of stream are rated as having High IP for spawning and early-rearing for Chinook salmon (**Table 1**). For steelhead, the Cooney and Holzer (2006) model indicated that the study area supports more than 12,800 meters (28 percent of the study area) of stream that are rated as High IP (**Table 2**). The difference between High IP for spawning and early-rearing for the two species is attributed to the YPP being considered a migration blockage for Chinook salmon. Cooney and Holzer (2006) note that no habitat upstream of the YPP is considered habitat for Chinook salmon.

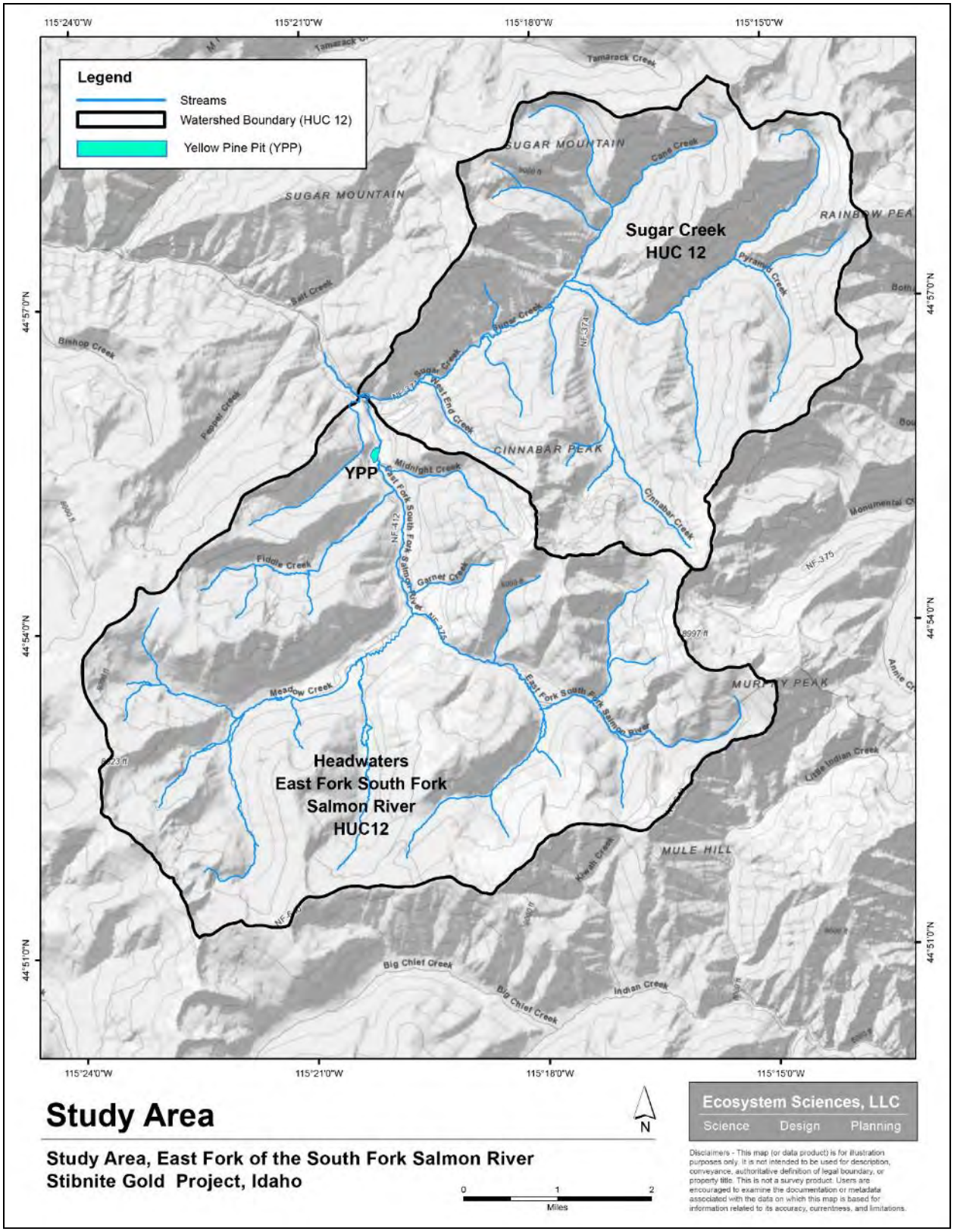



**Figure 1. Intrinsic Potential Model Study Area**

Adapted from Cooney and Holzer (2006) Table 7. Relative potential for Interior Columbia basin steelhead spawning and initial Rearing as a function of stream reach physical characteristics.

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| Bankfull Width (BF) | Gradient | Confined (≤4 x BF width) | Moderate (4-20 x BF width) | Wide (> 20 x BF width) |
| BF < 3.8 m | ≥ 0 | None | None | None |
| BF 3.8m to 25 m | 0 – 0.5 | None | Medium | Medium |
| | 0.5 – 4.0 | Low | High | High |
| | 4.0 – 7.0 | None | Low | Low |
| | > 7.0 | None | None | None |
| BF 25 m to 50 m | 0 – 4.0 | Low | Medium | Medium |
| | > 4.0 | None | None | None |
| BF> 50 m | ≥ 0 | None | Low | Low |

Adapted from Cooney and Holzer (2006) Table 3. Relative potential for Interior Columbia basin Spring/Summer Chinook salmon spawning and initial rearing as a function of stream reach physical characteristics.

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| Wetted Width (WW) | Gradient | Confined (≤4 x BF width) | Moderate (4-20 x BF width) | Wide (> 20 x BF width) |
| WW < 3.7 m | ≥ 0 | None | None | None |
| WW 3.6 m to 25 m | 0 – 0.5 | Medium | High | High |
| | 0.5 – 1.5 | Low | Medium | High |
| | 1.5 – 4.0 | Low | Low | Medium |
| | 4.0 – 7.0 | Negligible | Low | Low |
| | > 7.0 | None | None | None |
| WW 25 m to 50 m | 0 – 0.5 | None | Medium | Medium |
| | 0.5 – 10 | None | None | None |
| | ≥ 10 | None | None | None |
| WW> 50 m | ≥ 0 | None | None | None |

Table Notes:

*red items were modified from the original publication.

Note the correction to the table for Chinook salmon: wetted width was substituted for bankfull width and the called-out category was corrected to 3.6 meters to 25 meters, per NOAA consultation.[2] Criteria that were modified based on consultation with NOAA are called out in red text.

**Figure 2. Cooney and Holzer 2006 Categorical Intrinsic Potential Models for Chinook Salmon and Steelhead**

[2] Johnna Sandow, NOAA Fisheries, personal consultation. The authors of the original table were consulted, and the correction sent via Johnna Sandow to the ESA group.

**Table 1. Cooney and Holzer 2006 Intrinsic Potential Results for Chinook Salmon in the Study Area**

| Chinook IP | Segments | Length (meters) | % Study Area |
|---|---|---|---|
| **High** | 9 | 1,802.5 | 4.0 |
| **Medium** | 4 | 800.7 | 1.8 |
| **Low** | 19 | 3,805.2 | 8.4 |
| **Useable Habitat** | 32 | 6,408.4 | 14.1 |
| **Total Area** | **230** | **45,484.5** | **100.0** |

Overall, according to Cooney and Holzer (2006), the study area provides roughly 6,408 linear meters of useable stream habitat (14.1 percent of the study area) that meet the minimum (Low, Medium, High) requirements for spawning and early-rearing IP for Chinook salmon. The entire potential spawning and early-rearing habitat occurs downstream of the YPP, and within the Sugar Creek drainage (**Figure 3**).

**Table 2. Cooney and Holzer 2006 Intrinsic Potential Results for Steelhead in the Study Area**

| Steelhead IP | Segments | Length (meters) | % Study Area |
|---|---|---|---|
| **High** | 64 | 12816.0 | 28.2 |
| **Medium** | 1 | 200.2 | 0.4 |
| **Low** | 59 | 11814.4 | 26.0 |
| **Useable Habitat** | 106 | 24,830.6 | 54.6 |
| **Total Area** | **230** | **45,484.5** | **100.0** |

The Cooney and Holzer (2006) IP model for steelhead identifies roughly 24,831 meters of useable stream habitat (54.6 percent of study area) as providing at least the minimum (Low, Medium, High) requirements for spawning and early-rearing habitat (**Table 2**).The Cooney and Holzer (2006) IP model does not recognize the reach immediately above Yellow Pine Pit (high-gradient reach) as a fish barrier, therefore, much of the Upper EFSFSR and Meadow Creek provides steelhead spawning and early-rearing habitat (**Figure 3**).

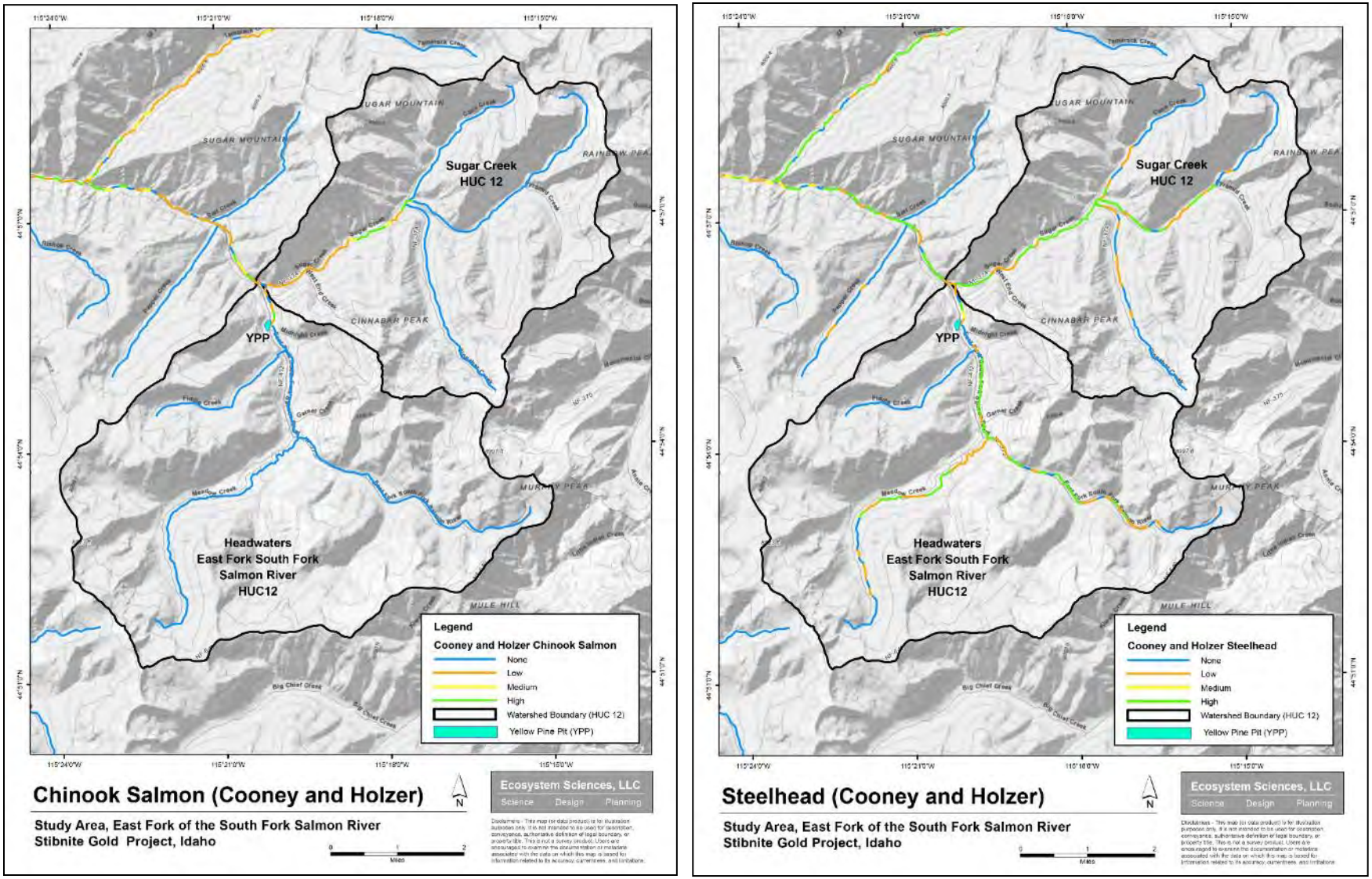



**Figure 3. Cooney and Holzer (2006) IP Model Results for Chinook Salmon and Steelhead in the Study Area**

# 4.0 METHODS

The mine site IP model methodology follows the physical habitat potential IP approach developed by Cooney and Holzer (2006) for the Interior Columbia Basin, but has been modified to address the scale of the proposed project's existing data and impacts.

## 4.1 ASSUMPTIONS

The IP modeling effort uses key landscape characteristics (i.e., gradient, channel characteristics, and valley confinement) to determine the potential of stream reaches to support spawning and early-rearing habitat for the two species. Field data (e.g., PIBO and Rio ASE) and modeled parameters (e.g., bankfull and wetted width) for reaches that lacked field data (i.e., most of the study area) were used as inputs to the model. Other key definitions and assumptions include:

1. The model extent is from the confluence of Sugar Creek and the EFSFSR upstream to their headwaters.

2. Field-collected data: PIBO data (collected 2012 – 2015 [MWH 2017]), Rio ASE data (collected 2017 [Rio ASE 2018]), and spawning survey results (collected 2008 – 2018, [Nez Perce Tribe 2018]) were used as inputs to the model where data were available; primarily, bankfull and wetted widths.

3. Wetted width is the first category for Chinook salmon, while bankfull width was employed for steelhead. PIBO data and Rio ASE collected data and documented wetted and bankfull widths in the study area (**Figure 2**).

4. Modeling was performed at a 30-meter-reach scale; however, results have been summarized by tributary (i.e., Meadow Creek, Upper EFSFSR, Upper EFSFSR above Meadow Creek confluence) according to project-specific areas of interest.

5. The study area IP model results documented Chinook salmon spawning and early-rearing habitat potential above the YPP, even though those reaches are not currently accessible to the species due to a high-gradient section directly above the YPP (no volitional passage, although hatchery fish have been released above the barrier).

**Table 3** below identifies the goal, life stage, analysis extent, and habitat suitability criteria used to determine the intrinsic potential of the study area (Upper EFSFSR) to support spawning and early-rearing habitat for Chinook salmon and steelhead.

**Table 2. Goal, Life Stage, Analysis Extent, and Suitability Criteria for Study Area Intrinsic Potential Model**

| | |
|---|---|
| Goal | Evaluate the potential spawning and rearing habitat for Chinook salmon and steelhead in the reaches of the study area. Assign classes (High, Medium, Low, Negligible, and None) to reaches that describe that reach's potential to support Chinook salmon and steelhead spawning and early rearing. |
| **Model Components** | |
| Life Stage | Spawning and early rearing (focus on yearling). |
| Analysis Extent | Reaches in the study area (confluence of EFSFSR and Sugar Creek upstream to headwaters). Summarize the Intrinsic Potential for Chinook salmon and steelhead using site-specific and fine-scale data in the Upper EFSFSR, Meadow Creek, and Upper EFSFSR above Meadow Creek confluence). |
| Habitat Suitability Criteria | Cooney and Holzer 2006. |

## 4.2 MODELING PROCEDURE

The IP model methods followed the general approach described below:

1. Gathered all pertinent data from baseline reports, past IP modeling efforts, etc. (consulted available models, including those listed in Sheer et al. [2009]).
2. Reviewed literature sources for relationships between fish density and habitat characteristics in the Interior Columbia Basin.
3. Determined initial parameters and index values, based on Cooney and Holzer (2006).
4. Identified available field data (PIBO and Rio ASE) and location of reaches.
5. Performed preliminary IP model for reaches with field data, and presented to ESA group at July 19, 2018, informal ESA consultation meeting.
6. Created a streamlines Geographic Information System (GIS) shapefile for all IP modeling efforts, and segmented streamlines into 30-meter segments (see Streamlines section below for more information).
7. Created modeled input parameters and attributed 30-meter segments with modeled parameters and field parameters for applicable segments.
8. Performed all IP modeling for all reaches (modeled parameter reaches and field data reaches).
9. Presented results to ESA group (October 24, 2018, and November 28, 2018).
10. Finalized modeling results, summarized by SFA reach, sub-watershed (e.g., Meadow Creek), or other pertinent geographic extents based on project needs.

## 4.3 DATA EMPLOYED

Creating the Stibnite Gold IP model required several steps and model inputs. **Table 4** documents the input parameters for the IP model, the pertinent values per species, and the data sources.

Field data for wetted width and bankfull width parameters were available for several reaches of the study area, primarily through PIBO data. Rio ASE also performed some field data collection in the study area in support of their Stream Design Report (Rio ASE 2018). Rio ASE field data provided bankfull and wetted width measurements as well.

**Table 3. Data Employed to Create the Intrinsic Potential Model for Chinook Salmon and Steelhead**

| Parameter | Chinook | Steelhead | Source |
|---|---|---|---|
| Wetted Width (m) | ≥3.6m | N/A | PIBO and Rio ASE field data<br>Rio ASE wetted width calculation<br>WW = BF*0.799 |
| Bankfull (m) | N/A | ≥3.8m | PIBO and Rio ASE field data<br>Rio ASE bankfull (BF) calculation based on drainage area (DA) and then converted to meters:<br>$BF(ft) = 6.868*DA^{0.407}$ |
| Gradient (% Slope) | <7% | <7% | Derived in ESRI ArcGIS based on Lidar data and streamline segment |
| Valley Bottom Width (m) | Reach Dependent | Reach Dependent | Derived in ESRI ArcGIS using the Valley Bottom Extraction Tool (VBET) |
| Valley Width Ratio | Valley Bottom Width/Bank Full | Valley Bottom Width/Bank Full | Derived in ESRI ArcGIS by dividing the Valley Bottom Width by its corresponding segments bankfull width (VWR = VBW/BF) |

## 4.4 STREAMLINES

Cooney and Holzer (2006) employed 200-meter segments derived from the National Hydrography Dataset (NHD) plus flow lines to perform the Interior Columbia Basin Intrinsic Potential Model (Cooney and Holzer 2006); however, the NHD dataset does not accurately reflect the drainage lines in the study area. Several streamline datasets existed for other analyses in the study area (e.g., Aquatic Resources Study Area streams, delineated streams from wetland delineation, and Qual2K stream segmentation). Ecosystem Sciences created a streamline file based on Lidar data for the study area using ESRI's ArcHydro application. The ArcHydro-based and other streamline datasets were merged and analyzed to create one layer that accurately represents the stream courses in the study area. Ecosystem Sciences provided this revised stream layer to the ESA group for edits. Midas Gold Idaho, Inc. (Midas Gold) made edits, and suggested other edits to the streamlines provided to them by Ecosystem Sciences. Ecosystem Sciences made the following edits to the streamlines provided by Midas Gold.

1. Added line segments through culverts – To create study-area-wide 30-meter stream segments, each stream course needed to be one continuous line. Therefore, streamlines through culverts were included in the final 30-meter segment dataset.
2. Removed overlapping stream segments in Sugar Creek – A portion of Sugar Creek had overlapping streamlines, which were removed from the dataset so that only a single streamline remained to represent Sugar Creek. See **Figure 4** below.
3. Only perennial streams were used for the Stibnite Gold IP model. Where streams had multiple channels, the main channel, or larger channel, was used in the model.



**Figure 4. Overlapping Streamlines in Sugar Creek**

## 4.5 THIRTY-METER SEGMENTS

The ESA group determined that 30-meter stream segments were biologically appropriate for the baseline analysis of IP for Chinook salmon and steelhead. Therefore, the agreed-on streamlines were split into 30-meter segments in ESRI ArcGIS 10.6 using the Split command; this command, found on the Editor toolbar, allows users to split a line into an equal number of new features. For example, it was used to split the 15,870-meter-long EFSFSR into 528 segments (roughly 30.1 meters per segment).

**Figure 5** below depicts a portion of the EFSFSR split into 30-meter segments. More information on the Split command in ESRI ArcGIS 10.6 can be found here: http://desktop.arcgis.com/en/arcmap/10.3/manage-data/editing-existing-features/splitting-a-line-into-an-equal-number-of-parts.htm.




**Figure 5. Example Streamline Split into 30-meter Segments**

## 4.6 STREAM FUNCTIONAL ASSESSMENT REACHES

SFA reaches were provided to Ecosystem Sciences by Midas Gold, and the SFA reach names were attributed to the streamlines used in the IP model in ESRI ArcGIS 10.6. This was done to facilitate future modeling efforts focused on the impacts associated with the proposed action, allowing IP results for Chinook salmon and steelhead to be summarized per SFA reach.

## 4.7 BANKFULL WIDTH

Bankfull width was calculated for every stream segment using the equation provided by Rio ASE, based on that segment's upstream drainage area. The bankfull (BF) width equation is: $BF(ft) = 6.868*DA^{0.407}$, where DA = Drainage Area. The resultant bankfull width in feet was converted to meters and attributed to the streamline dataset used in the IP model. PIBO data were used as the bankfull width measurements when available.

### 4.7.1 Drainage Area

Drainage area was calculated via an ESRI ArcHydro-derived flow accumulation raster (FAC) in ArcGIS 10.6. Each 30-meter segment start point was intersected with the FAC, which

documented in square meters, the upstream area that drains to that point. Several of the 30-meter segment start points did not intersect the highest FAC pixel, because the actual streamline did not follow the ArcHydro-derived flow path. For these points, the ArcGIS tool, Snap Pour Point, was used to ensure that the correct upstream drainage area was attributed to the 30-meter segment's start point. The drainage area, defined by the FAC, was attributed to the 30-meter stream segment start point, and then joined to the segmented 30-meter streamlines.

**Table 4. Bankfull Data used in IP Model (Model-derived and Field-measured Comparison)**

| Bankfull Data | Modeled | Field |
|---|---|---|
| Count | 3,874 | 120 |
| Min | 0.2m | 2.4m |
| Mean | 2.5m | 6.2m |
| Median | 1.9m | 6.0m |
| Max | 9.7m | 10.7m |
| SD | 1.9m | 2.5m |

## 4.8 WETTED WIDTH

Wetted width was calculated for every stream segment based on that segment's bankfull width. Midas Gold performed an analysis of the relationship between bankfull width and wetted widths, and provided those results to Ecosystem Sciences. The following is from a Midas Gold/Brown and Caldwell (Paul Leonard) email dated September 10, 2018: "Based on the close relationship between the PIBO data and the restoration design it is believed that wetted width can accurately be estimated throughout the study area as approximately 79.9% of the bankfull width for that reach." Therefore, wetted width (WW) was derived for each segment by multiplying the bankfull width by 0.799 (WW = BF*0.799). PIBO and Rio ASE–collected field data were also used in the model. Field-collected data superseded modeled data throughout the analysis. **Table 6** details the wetted widths used to model the IP of Chinook salmon.

**Table 5. Wetted Width Data used in IP Model (Model-derived and Field-measured Comparison)**

| Wetted Width | Modeled | Field |
|---|---|---|
| Count | 3,874 | 91 |
| Min | 0.1m | 1.9m |
| Mean | 2.0m | 4.9m |
| Median | 1.5m | 4.6m |
| Max | 7.8m | 9.8m |
| SD | 1.5m | 2.1m |

## 4.9 SLOPE (STREAM GRADIENT)

Stream gradient for each 30-meter segment was delineated in ArcGIS 10.6 by subtracting the elevation at the end of the 30-meter segment from the elevation at the top of the 30-meter segment and dividing the difference by the length of the segment (usually 30 meters). This is the

typical rise (high – low = difference) over run (length of segment) equation used to define a line segments slope or gradient (slope = rise/run). The 1-meter Lidar-derived Digital Elevation Model (DEM) provided elevation information (start z & end z). The 30-meter stream segments (see the Streamlines and Thirty-meter Segments sections) were the polyline features to which the slope derivation was attributed, and the lengths used to derive the run (length of segment). Stream gradient in the EFSFSR ranged from -4 percent to nearly 78 percent, with a mean of approximately 12 percent change over the 30-meter section. Negative stream gradients were categorized as falling within the 0.0 to 0.5 class for inclusion in the IP model. Researchers have found that Lidar-derived slope measurements can cause negative slopes (essentially water flowing uphill) (Tonina et al. 2018). Therefore, such slopes were regarded as less than 0.5 percent slope for inclusion in the IP models. Cooney and Holzer (2006) suggest that a stream gradient greater than 7 percent, regardless of bankfull / stream width or valley width ratio, is too steep for either Chinook salmon or steelhead spawning and early rearing (**Figure 2**). In general, most of the stream segments in the study area are too steep to support Chinook salmon or steelhead spawning and early-rearing life stages. Therefore, most of the spawning and early-rearing habitat for the two species in the study area is limited to the main trunk streams: EFSFSR, Meadow Creek, and Sugar Creek.

**Table 6. Average Slope per 30-meter Stream Segment Descriptive Statistics**

| Slope | Modeled |
|---|---|
| Count | 3,874 |
| Min | -4.2% |
| Mean | 12.0% |
| Median | 11.5% |
| Max | 77.6% |
| SD | 11.4% |

## 4.10 VALLEY BOTTOM WIDTH – VALLEY BOTTOM EXTRACTION TOOL

Valley width was derived using the Valley Bottom Extraction Tool (V-BET), an open-source ArcGIS toolbox that provides the scripts needed to delineate valley bottoms across entire drainage networks (Gilbert et al. 2016). The V-BET derives valley bottoms based on terrain data from 1 to 10 meters (Gilbert et al. 2016); 1-meter Lidar data were used. The V-BET tool results in a polygon (vector) feature class depicting the width of the valley bottoms in the study area (see **Appendix A**). The resultant feature class required hand-editing post-process because roads and low slope areas outside of valley bottom areas pose a problem for the V-BET tool. More information pertaining to the V-BET tool can be found in **Appendix A**: Valley Bottom Extraction Tool Sensitivity Analysis.

Valley width per 30-meter stream segment was derived through a GIS process that results in an average valley bottom width per 30-meter segment. The GIS process is described herein:

1. Create cross-valley bottom lines for every 10 meters of stream that are perpendicular to the streamline. Each 30-meter stream segment has three cross-valley bottom lines used to evaluate that segment's average valley bottom width.
2. Clip the cross-valley bottom lines created in step 1 using the feature class (valley bottom width) created using the V-BET. Derive each cross-valley bottom line's length.

3. Create the average length of the cross-valley bottom line per 30-meter stream segment, which is the average of the three clipped cross-valley bottom lines created in step 2.
4. Attribute the average length of the cross-valley bottom lines, or valley width, to each 30-meter stream segment.

Valley widths for the 30-meter segments in the study area ranged from 5 to 180 meters, with a mean of 28.7 meters (**Table 8**). Similar to slope, the narrow valley bottoms in the study area limit the habitat available to Chinook salmon and steelhead to the main trunk streams (Upper EFSFSR, Meadow Creek, and Upper EFSFSR above Meadow Creek confluence).

**Table 7. Valley Bottom Width (V-BET) Data used in the IP Model**

| Valley Bottom Width | Modeled |
|---|---|
| Count | 3,874 |
| Min | 5.0m |
| Mean | 28.7m |
| Median | 17.0m |
| Max | 180.0m |
| SD | 26.5m |

## 4.11 VALLEY WIDTH RATIO

The valley width ratio was derived in ArcGIS 10.6 by dividing each 30-meter segment's average valley width by that same segment's bankfull width. Valley width ratios ranged from 1.5 to 318.8, with a mean of 17.3 (**Table 9**).

**Table 8. Valley Width Ratio Data used in the IP Model**

| Valley Width Ratio | Modeled |
|---|---|
| Count | 3,874 |
| Min | 1.5 |
| Mean | 17.3 |
| Median | 9.8 |
| Max | 318.8 |
| SD | 25.5 |

# 5.0 RESULTS

The following sections detail the results of the study area baseline IP model. Results are summarized by stream segment (**Appendix B**). Stream segment 1 includes the Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek. Stream segment 2 includes the entirety of the Meadow Creek drainage area. Stream segment 3 includes the Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek. Stream segment 4 includes the modeled portion of the Upper EFSFSR downstream of its

confluence with Sugar Creek. Stream segment 5 covers the entirety of the HUC 12 "Headwaters East Fork South Fork Salmon River" (**Figure 1**). Stream segment 5 is the summation of stream segments 1, 2 and 3. Stream segment 6 includes the Sugar Creek drainage area, or the HUC 12 "Sugar Creek" (**Figure 1**). A map of the stream segments can be found in the **Appendix B**. SFA reach results are summarized in paragraph form below and presented in full in **Appendix C**.

## 5.1 STUDY AREA

The study area (summation of all stream segments) includes spawning and early-rearing habitat for Chinook salmon and steelhead. The study area supports a total of approximately 18,610 meters of potential spawning and early-rearing habitat for Chinook salmon, including all potential ratings from High to Negligible, and a total of 17,898 meters (High-, Medium-, and Low-rated) of potential habitat for steelhead (**Table 10** and **Table 11**). The study area includes more spawning and rearing habitat for Chinook salmon than steelhead (**Table 10** and **Table 11**) (**Figure 6** and **Figure 7**). The majority of potential steelhead spawning and early-rearing habitat is split between High and Low categories (**Table 11** and **Figure 7**). The major difference between the two species' IP ratings in the study area is that the streams of the area offer more High-rated spawning and early-rearing habitat for steelhead than for Chinook – 839 meters for Chinook compared to 8,043 meters for steelhead (**Table 10** and **Table 11**). Subsequent results are presented by stream segment (1 through 6).

**Table 9. Chinook salmon IP results for study area (includes Sugar Creek)**

| Chinook Salmon IP | 30m Segments | Length (m) | % of Study Area |
|---|---|---|---|
| **High** | 32 | 838.8 | 0.7 |
| **Medium** | 256 | 7,287.3 | 6.5 |
| **Low** | 300 | 8,744.3 | 7.7 |
| **Negligible** | 59 | 1,739.7 | 1.5 |
| **Useable Habitat** | 647 | 18,610.2 | 16.5 |
| **Total Area** | **3,874** | **113,001.3** | **100** |

**Table 10. Steelhead IP results for the study area (includes Sugar Creek)**

| Steelhead IP | 30-meter Segments | Length (meters) | % of Study Area |
|---|---|---|---|
| **High** | 281 | 8,042.5 | 7.1 |
| **Medium** | 21 | 301.6 | 0.5 |
| **Low** | 316 | 9,254.2 | 8.2 |
| **Useable Habitat** | 618 | 17,898.3 | 15.8 |
| **Total Area** | **3,874** | **113,001.3** | **100** |

Stream segment 5 (aka HUC 12 Headwaters of the East Fork South Fork Salmon River, as well as the summation of stream segments 1, 2, and 3), provides more stream habitat than stream segment 6 (HUC 12 Sugar Creek) (total length stream segment 5 = 65,250 meters, stream segment 6 = 46,641 meters) (**Table 12**). IP results follow this trend, because stream segment 5 (Headwaters EFSFSR) has more High, Medium, Low, and Negligible habitat for Chinook salmon than stream segment 6 (Sugar Creek) (**Table 12**). Stream segment 5 contains 11,409 meters of

useable IP habitat for Chinook salmon, while stream segment 6 provides only 6,091 meters. More High-rated Chinook salmon spawning and early-rearing habitat occurs in stream segment 5 than stream segment 6 (**Table 12**). Steelhead results are similar, because stream segment 5 has more steelhead spawning and early-rearing habitat than stream segment 6, and the Headwaters EFSFSR (stream segment 5) has more Medium- and High-rated steelhead IP habitat than stream segment 6 (Sugar Creek) (**Table 12**). Stream segment 5 contains 9,760 meters of useable IP habitat for steelhead, while stream segment 6 provides roughly 7,179 meters (**Table 12**).

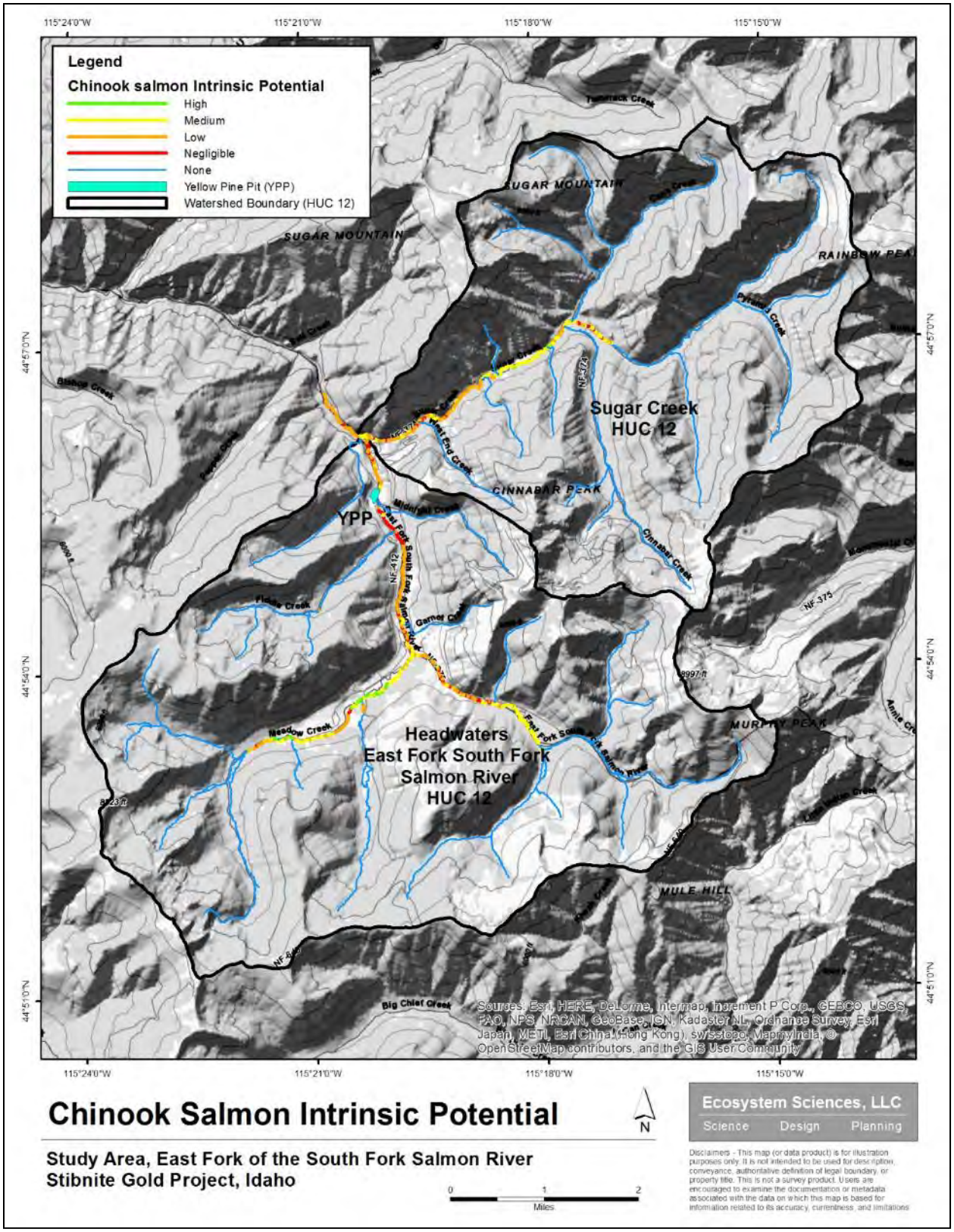



**Figure 6. Chinook Salmon Intrinsic Potential Rating for the Study Area**

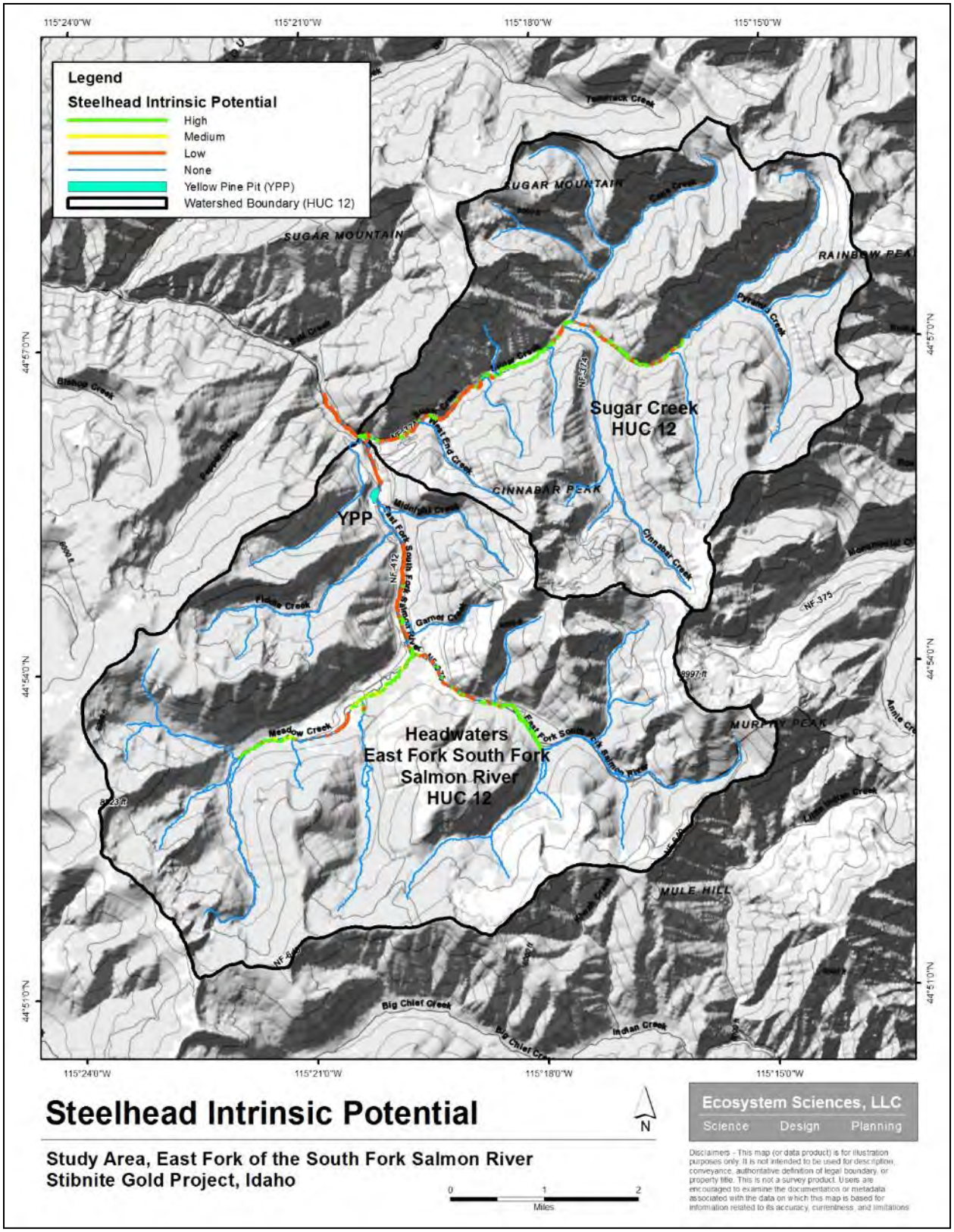



**Figure 7. Steelhead Intrinsic Potential Ratings for the Study Area**

**Table 11. Chinook Salmon and Steelhead IP Ratings for Streamlines in Stream Segment 6 (Sugar Creek) and Stream Segment 5 (Headwaters EFSFSR)**

| Stream Segment 6 – Sugar Creek HUC 12 | | | | Stream Segment 5 – Headwaters EFSFSR HUC 12 | | | |
|---|---|---|---|---|---|---|---|
| **Chinook IP** | **Segments** | **Length (meters)** | **% of Sugar Creek** | **Chinook IP** | **Segments** | **Length (meters)** | **% of Upper EFSFSR** |
| **High** | 4 | 117.4 | 0.3% | High | 28 | 721.4 | 1.1% |
| **Medium** | 99 | 2,958.2 | 6.3% | Medium | 156 | 4,299.1 | 6.6% |
| **Low** | 88 | 2,625.6 | 5.6% | Low | 178 | 5,098.6 | 7.8% |
| **Negligible** | 13 | 389.7 | 0.8% | Negligible | 44 | 1,290.0 | 2.0% |
| **Useable Hab.** | 204 | 6,090.9 | 13.1% | Useable Hab. | 406 | 11,409.2 | 17.5% |
| **Total Area** | 1,557 | 46,640.9 | 100.0% | Total Area | 2,280 | 65,250.3 | 100.0% |
| **Steelhead IP** | Segments | Length (meters) | % of Sugar Creek | Steelhead IP | Segments | Length (meters) | % of Upper EFSFSR |
| **High** | 116 | 3,473.8 | 7.5% | High | 164 | 4,538.7 | 7.0% |
| **Medium** | 0 | 0 | 0.0% | Medium | 21 | 601.6 | 0.9% |
| **Low** | 124 | 3,704.8 | 7.9% | Low | 158 | 4,529.3 | 6.9% |
| **Useable Hab.** | 240 | 7,178.6 | 15.3% | Useable Hab. | 343 | 9,669.6 | 14.8% |
| **Total Area** | **1,557** | **46,640.9** | **100.0%** | **Total Area** | **2,280** | **65,250.3** | **100.0%** |

## 5.2 STREAM FUNCTIONAL ASSESSMENT REACHES

The SFA reach results are presented in **Appendix C**: SFA Reach Intrinsic Potential for Chinook salmon and steelhead. Several SFA reaches provide Chinook salmon and steelhead spawning and early-rearing habitat (**Appendix C**). For example, Hangar Lake Reach 2 (HL2) provides baseline Chinook salmon High- and Medium-rated IP habitat (360 meters of High and 330 meters of Medium IP habitat) (**Appendix C**). Similar conditions exist in HL2 for steelhead, because the reach supports 390 meters of High potential for spawning and early-rearing steelhead habitat, and 300 meters of Medium-rated IP habitat (**Appendix C**). In general, the SFA reaches found along Meadow Creek and the Upper EFSFSR (below Meadow Creek confluence) contain much of the spawning and early-rearing habitat in the study area (excluding Sugar Creek). See **Appendix C** for more information regarding IP results per SFA reach.

## 5.3 STREAM SEGMENT 2 (MEADOW CREEK)

Stream segment 2, Meadow Creek drainage area, contains spawning and early-rearing habitat for Chinook salmon and steelhead (**Table 13** and **Table 14**) (**Figure 8** and **Figure 9**). Overall, stream segment 2 provides more IP habitat for Chinook salmon (4,209.1 meters) than for steelhead (3,789.6 meters), regardless of IP rating (includes High, Medium, Low, and Negligible). Meadow Creek provides more High-rated steelhead (2,259 meters) spawning and early-rearing habitat than for Chinook salmon (721 meters) (**Table 13** and **Table 14**).

**Table 12. Chinook Salmon IP Ratings for Stream Segment 2 (Meadow Creek)**

| Chinook IP | Segments | Length (meters) | % Meadow Creek |
|---|---|---|---|
| **High** | 28 | 721.4 | 3.1 |
| **Medium** | 70 | 1,959.4 | 8.5 |
| **Low** | 49 | 1,438.4 | 6.3 |
| **Negligible** | 3 | 89.9 | 0.4 |
| **Useable Habitat** | 150 | 4,209.1 | 18.4 |
| **Total Area** | **798** | **22,922.1** | **100.0** |

**Table 13. Steelhead IP Ratings for Stream Segment 2 (Meadow Creek)**

| Steelhead IP | Segments | Length (meters) | % Meadow Creek |
|---|---|---|---|
| **High** | 84 | 2,259.0 | 9.9 |
| **Medium** | 21 | 601.6 | 2.6 |
| **Low** | 31 | 929.0 | 4.1 |
| **Useable Habitat** | 136 | 3,789.6 | 16.5 |
| **Total Area** | **798** | **22,922.1** | **100.0** |

## 5.4 STREAM SEGMENT 1 (UPPER EFSFSR UPSTREAM OF SUGAR CREEK AND DOWNSTREAM OF MEADOW CREEK)

Stream segment 1 is defined for the IP analysis as the portion of the Upper EFSFSR in the study area that is upstream of Sugar Creek and downstream of the Meadow Creek confluence (**Figure 10** and **Figure 11**). Stream segment 1 contains spawning and early-rearing habitat for the two species, although most of the Chinook salmon habitat is of Low or Negligible quality (21.2 percent of the available stream area; Low = 3,540.2 meters and Negligible = 930.1 meters) (**Table 15** and **Figure 10**). Conversely, stream segment 1 supports 495 meters of High-rated spawning and early-rearing habitat for steelhead, and an additional 3,480 meters of Low-rated habitat (**Table 16**), which amounts to roughly 19 percent of available habitat that is useable to steelhead for spawning and early rearing in stream segment 1 (**Figure 11**).

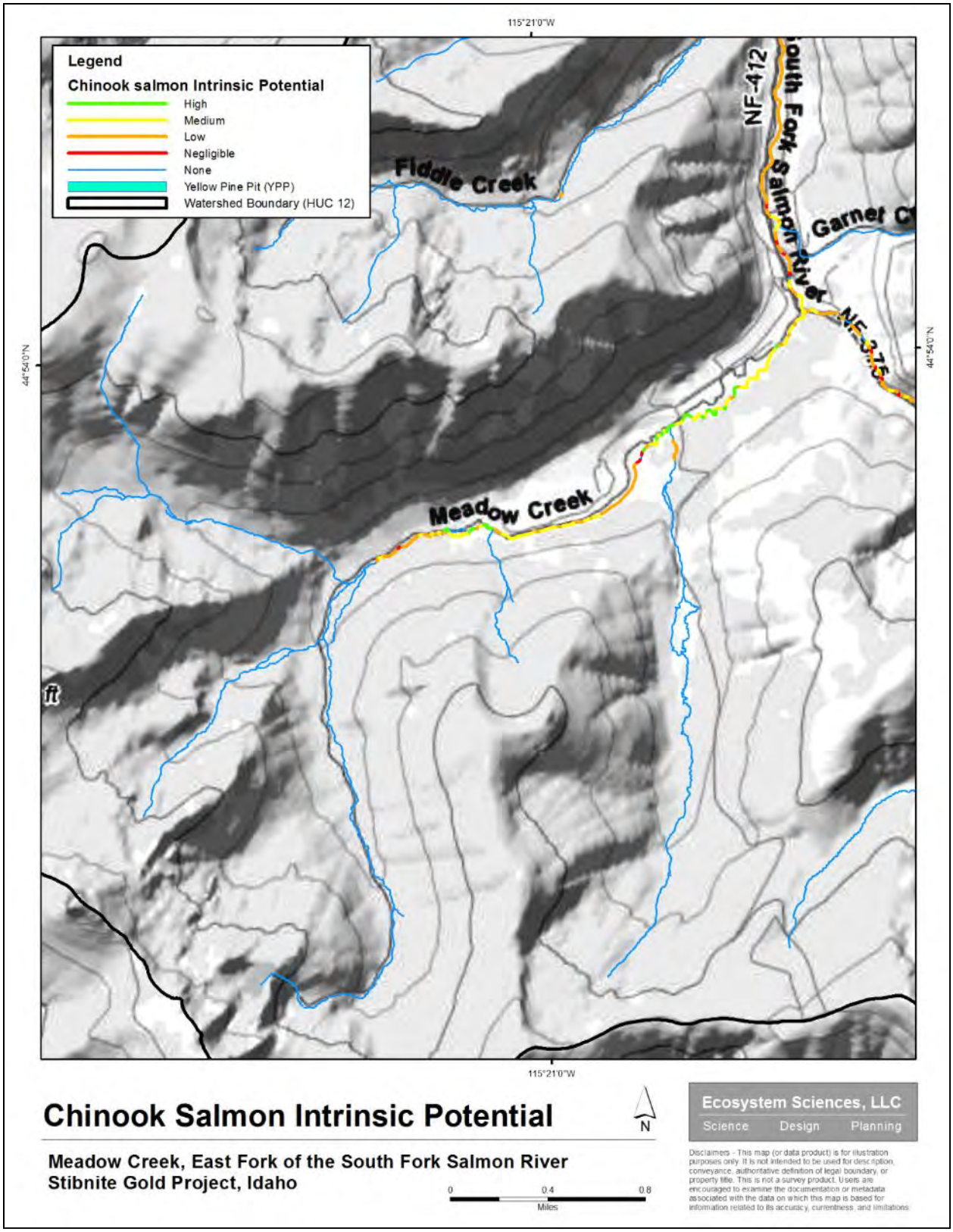



**Figure 8. Stream Segment 2 (Meadow Creek) Chinook Salmon Intrinsic Potential Rating**

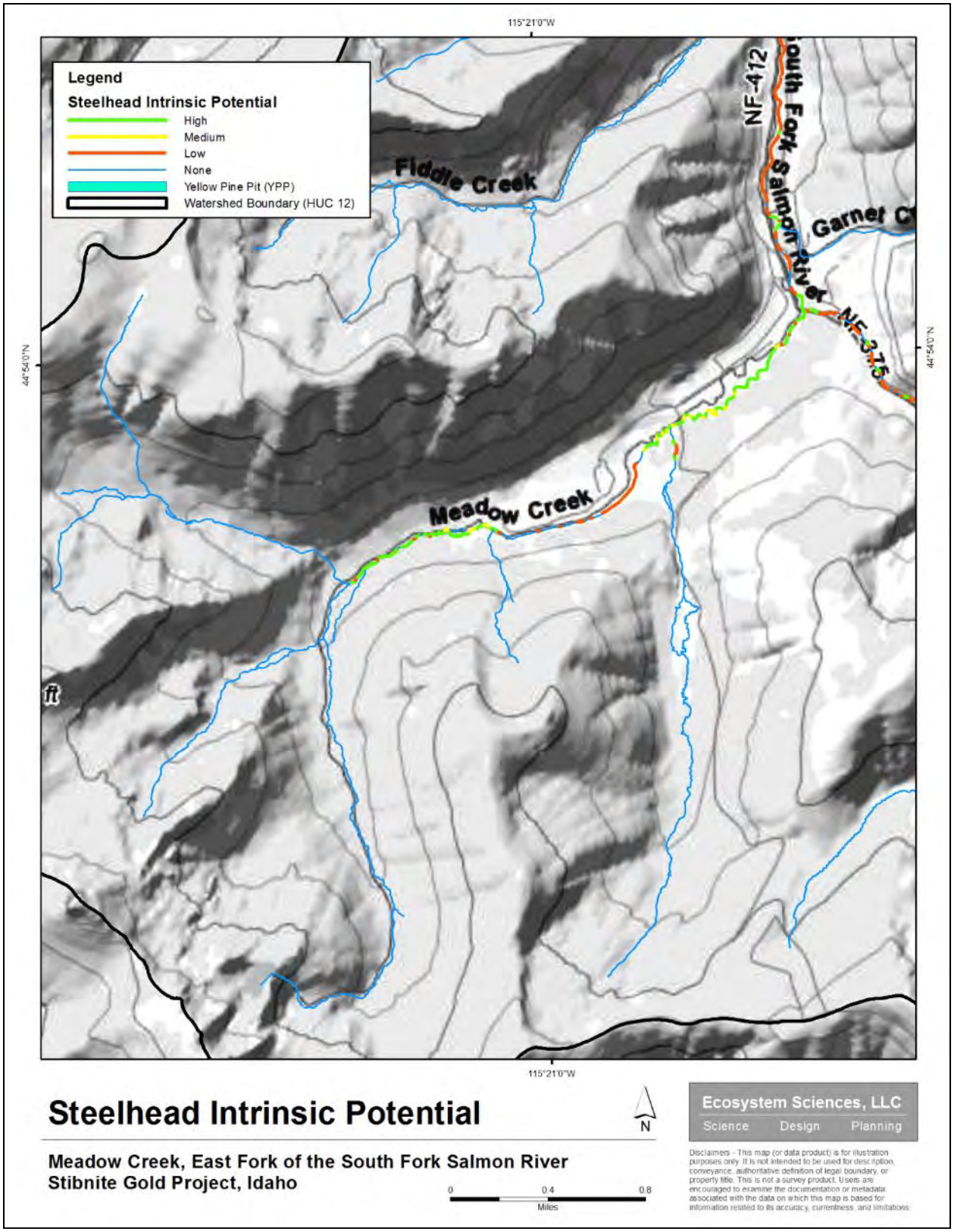



**Figure 9. Stream Segment 2 (Meadow Creek) Steelhead Intrinsic Potential Rating**

**Table 14. Chinook salmon IP ratings for Stream Segment 1**

| Chinook IP | Segments | Length (meters) | % Upper EFSFSR |
|---|---|---|---|
| **High** | 0 | 0.0 | 0.0 |
| **Medium** | 28 | 675.0 | 3.2 |
| **Low** | 124 | 3,540.2 | 16.8 |
| **Negligible** | 32 | 930.1 | 4.4 |
| **Useable Habitat** | 175 | 4,935.4 | 23.5 |
| **Total Area** | **752** | **21,038** | **100.0** |

**Table 15. Steelhead IP ratings for Stream Segment 1**

| Steelhead IP | Segments | Length (meters) | % Upper EFSFSR |
|---|---|---|---|
| **High** | 19 | 495.0 | 2.4 |
| **Medium** | 0 | 0.0 | 0.0 |
| **Low** | 122 | 3,480.3 | 16.5 |
| **Useable Habitat** | 141 | 3,975.3 | 18.9 |
| **Total** | **752** | **21,038** | **100.0** |

## 5.5 STREAM SEGMENT 3 (UPPER EFSFSR ABOVE MEADOW CREEK CONFLUENCE)

Stream segment 3 is defined for the IP analysis as the portion of the Upper EFSFSR that is upstream from the Meadow Creek confluence (**Figure 12** and **Figure 13**). This area contains spawning and early-rearing habitat for the two species, with most of the Chinook salmon habitat of Medium and Low quality (12.7 percent of the available stream area; Medium= 1,695 meters, and Low = 1,140 meters), with eleven segments rated as Negligible (330 meters, or 1.5 percent) (**Table 17**) (**Figure 12**). However, stream segment 3 supports 1,815 meters of High-rated spawning and early-rearing habitat for steelhead, and an additional 1,140 meters of Low-rated habitat (**Table 18**), amounting to 13.2 percent of available habitat in the Upper EFSFSR above Meadow Creek confluence (**Table 18** and **Figure 13**).

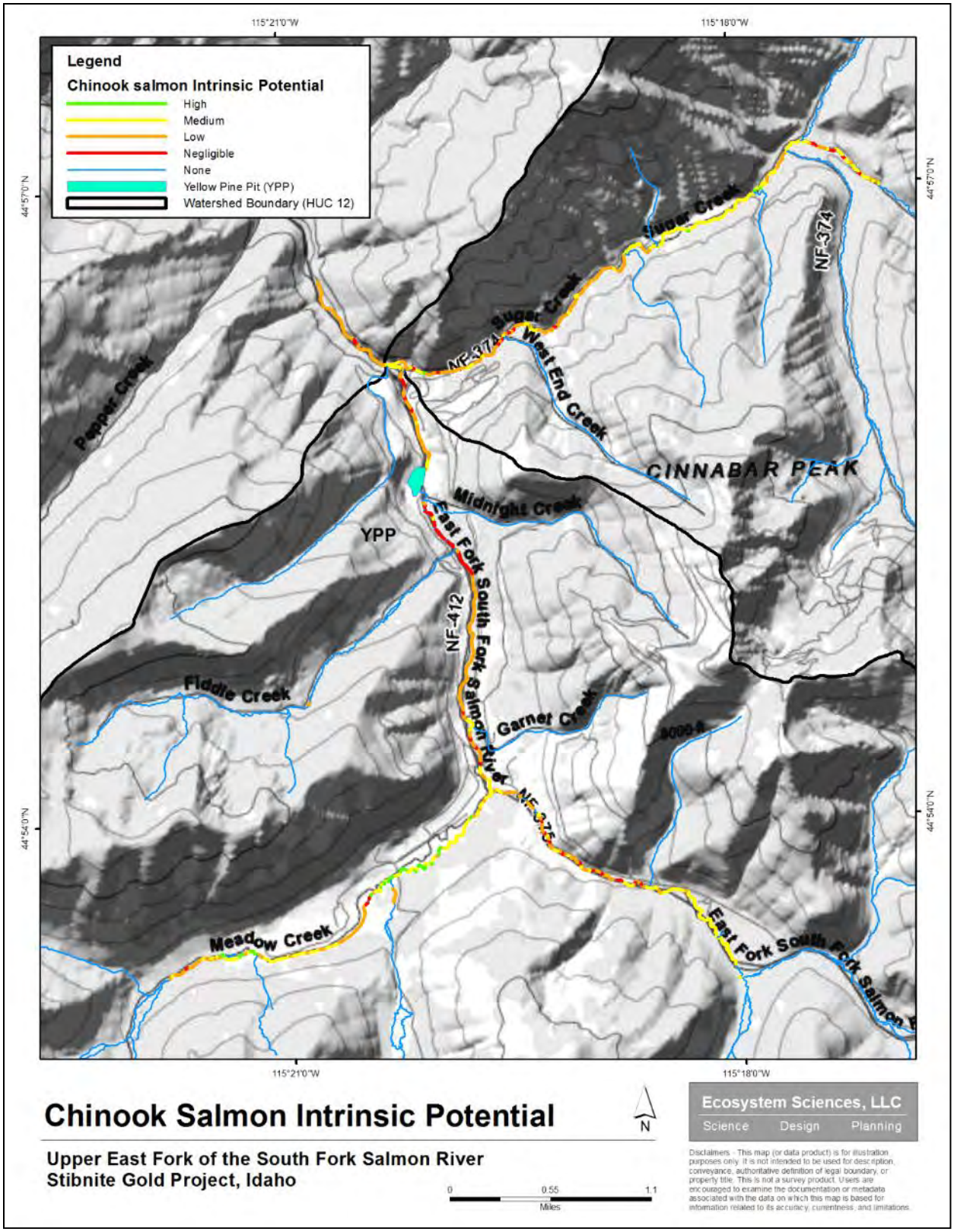



**Figure 10. Stream Segment 1 (EFSFSR from Sugar Creek to Meadow Creek) Chinook Salmon Intrinsic Potential Rating**

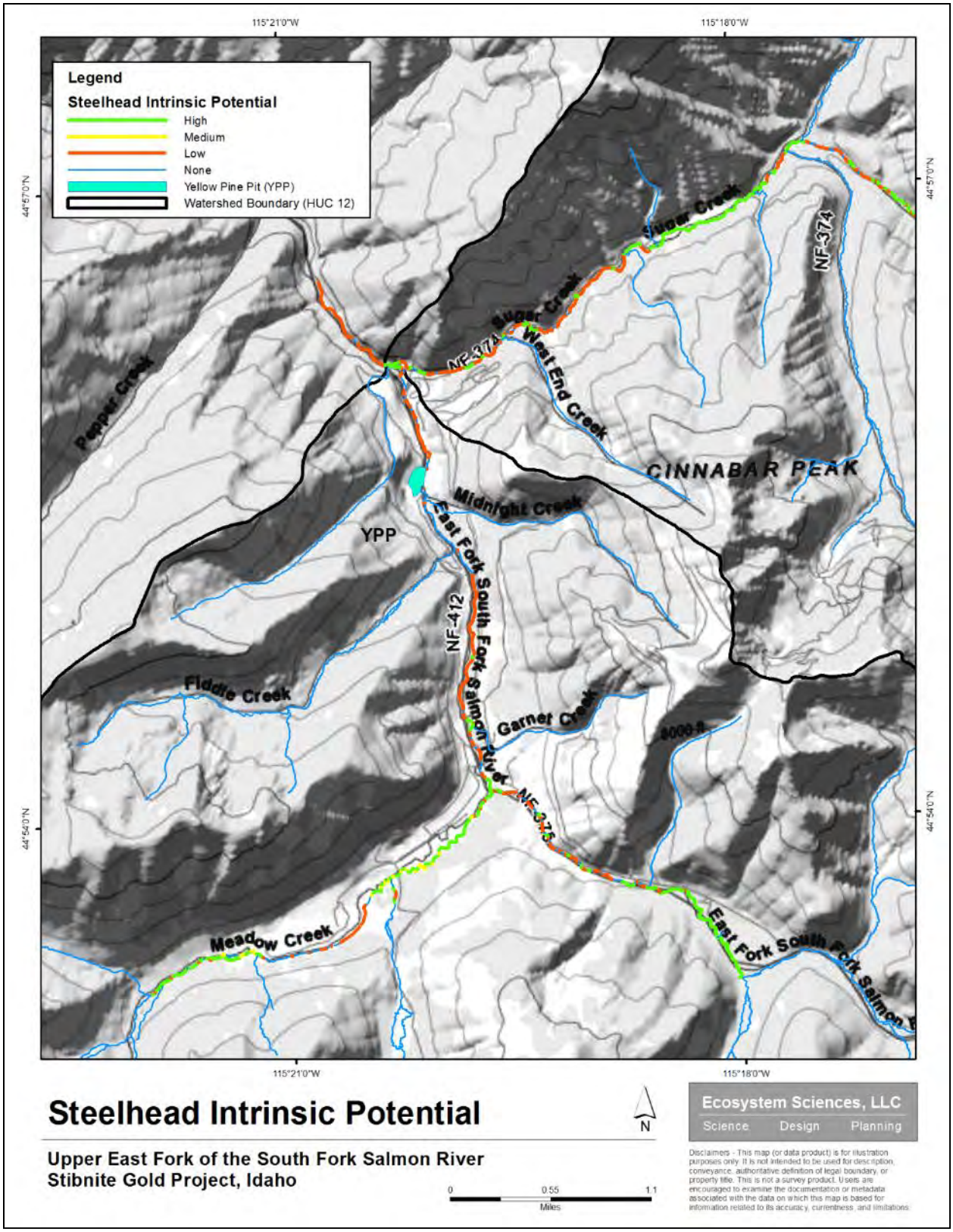



**Figure 11. Stream Segment 1 (EFSFSR from Sugar Creek to Meadow Creek) Steelhead Intrinsic Potential Rating**

**Table 16. Chinook Salmon IP Ratings for Stream Segment 3 (Upper EFSFSR above Meadow Creek)**

| Chinook IP | Segments | Length (meters) | % Upper EFSFSR above Meadow Creek confluence |
|---|---|---|---|
| **High** | 0 | 0.0 | 0.0 |
| **Medium** | 59 | 1,694.7 | 7.6 |
| **Low** | 39 | 1,140.1 | 5.1 |
| **Negligible** | 11 | 330.0 | 1.5 |
| **Useable Habitat** | 109 | 3,164.8 | 14.1 |
| **Total Area** | **767** | **22,400.2** | **100.0** |

**Table 17. Steelhead IP Ratings for Stream Segment 3 (Upper EFSFSR above Meadow Creek)**

| Steelhead IP | Segments | Length (meters) | % Upper EFSFSR above Meadow Creek confluence |
|---|---|---|---|
| **High** | 62 | 1,814.7 | 8.1 |
| **Medium** | 0 | 0.0 | 0.0 |
| **Low** | 39 | 1,140.1 | 5.1 |
| **Useable Habitat** | 101 | 2,954.8 | 13.2 |
| **Total Area** | **767** | **22,400.2** | **100.0** |

## 5.6 STREAM SEGMENT 4 (UPPER EFSFSR BELOW SUGAR CREEK)

A small portion of the Upper EFSFSR downstream of Sugar Creek was modeled for IP habitat. This small section of the Upper EFSFSR is known as stream segment 4. Stream segment 4 includes roughly 1,110 meters of the Upper EFSFSR (**Table 19** and **Table 20**). Stream segment 4 supports primarily (92 percent of stream segment) low-rated Chinook salmon spawning and early-rearing habitat (**Table 19**). One hundred percent of the riverine habitat in stream segment 4 is useable for Chinook salmon spawning and early rearing (**Table 19**). Stream segment 4 supports 30 meters of high-rated and 1,020 meters of low-rated steelhead IP habitat, equating to 95 percent of the segment's riverine habitat being useable for spawning and early rearing (**Table 20**).

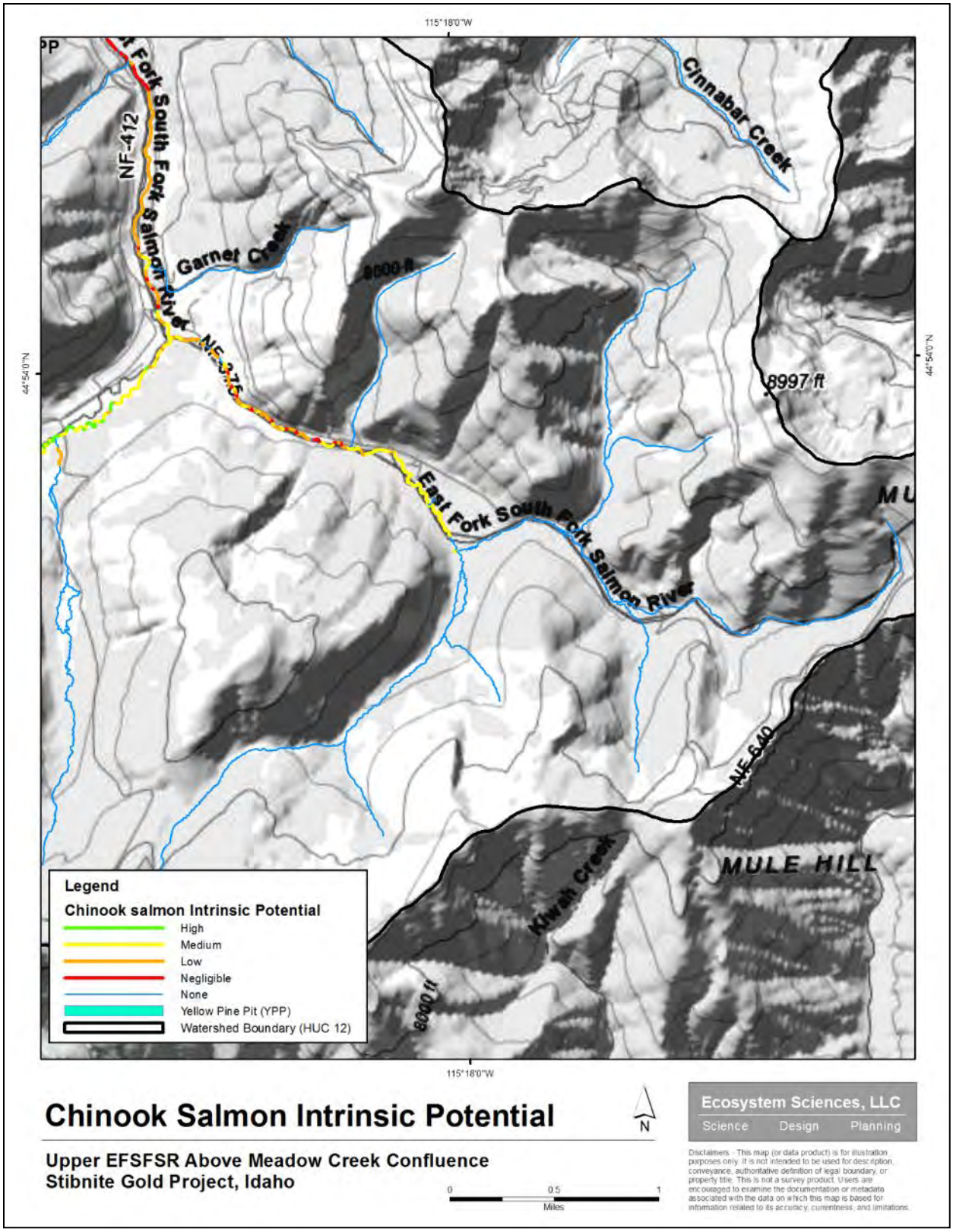



**Figure 12. Stream Segment 3 (Upper EFSFSR above Meadow Creek Confluence) Chinook Salmon Intrinsic Potential Rating**

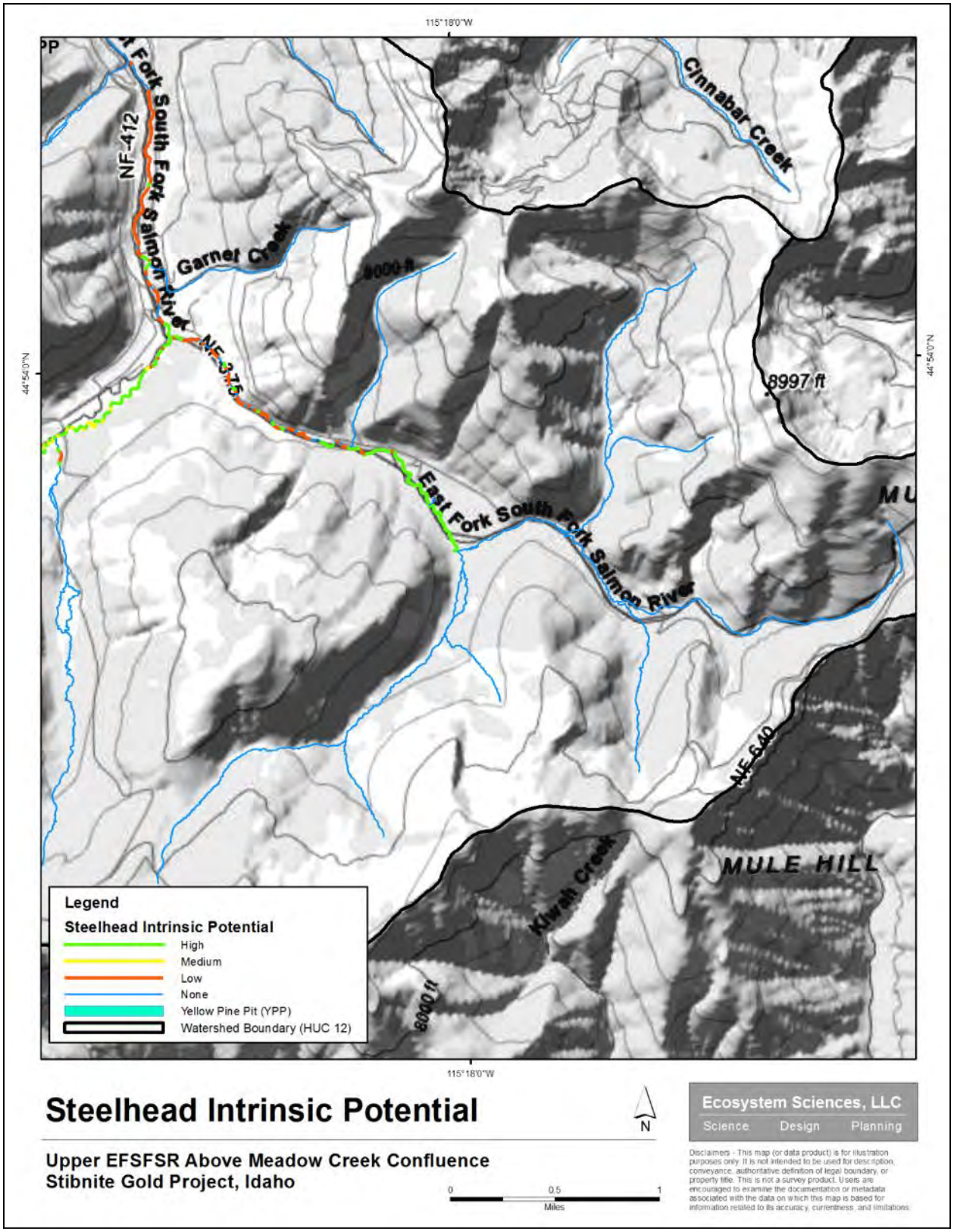



**Figure 13. Stream Segment 3 (Upper EFSFSR above Meadow Creek Confluence) Steelhead Intrinsic Potential Rating**

**Table 19. Chinook Salmon IP Ratings for Stream Segment 4 (Upper EFSFSR below Sugar Creek)**

| Chinook IP | Segments | Length (meters) | % Upper EFSFSR above Meadow Creek confluence |
|---|---|---|---|
| **High** | 0 | 0.0 | 0.0 |
| **Medium** | 1 | 30.0 | 2.7 |
| **Low** | 34 | 1,020.1 | 91.9 |
| **Negligible** | 2 | 60.0 | 5.4 |
| **Useable Habitat** | 37 | 1,110.1 | 100.0 |
| **Total Area** | **37** | **1,110.1** | **100.0** |

**Table 20. Steelhead IP Ratings for Stream Segment 4 (Upper EFSFSR below Sugar Creek)**

| Steelhead IP | Segments | Length (meters) | % Upper EFSFSR above Meadow Creek confluence |
|---|---|---|---|
| **High** | 62 | 1,814.7 | 8.1 |
| **Medium** | 0 | 0.0 | 0.0 |
| **Low** | 39 | 1,140.1 | 5.1 |
| **Useable Habitat** | 101 | 2,954.8 | 13.2 |
| **Total Area** | **767** | **22,400.2** | **100.0** |

# 6.0 QUALITY ASSURANCE/QUALITY CONTROL – REDD OCCURRENCE PER IP RATING

To understand the real-world applicability of the study area IP model, the results were compared to field-identified Chinook salmon redd locations. The data, gathered by the Nez Perce Tribe (2018), documents Chinook salmon redds in the study area from 2008 through 2018. Because fish did not pass volitionally to the area above YPP, the selection of specific sites for spawning must be viewed carefully; the fish were planted at the site and likely selected sites close to the release location. However, these results provide the best available data on spawning locations under current conditions. In the study area, 867 redds were documented (**Table 21**). In years 2009, 2010, 2011, and 2016, over 100 redds were counted, with over 190 documented in 2016 (**Table 21**). Of these redds, 281 occurred in High IP-rated stream segments (**Figure 14**) (**Table 22**). High-rated stream segments harbor roughly 0.34 Chinook salmon redds per meter of stream, the densest occurrence of redds for any of the IP-rated areas in the study area (2). Medium-rated Chinook salmon IP stream segments contain the majority of field-verified redds (362), with a density of 0.05 redds per meter (**Table 22**). Low-rated IP segments harbor roughly 0.02 redds per stream meter. In short, field-verified redd locations compared to IP-rated stream segments demonstrate that the study area IP model accurately reflects real-world conditions. The densest occurrence of redds occurred in High- and Medium-rated IP stream segments (**Table 22**), and Low, Negligible, and None IP-rated stream segments contain a significantly lower density of redds per stream meter (**Table 22**) (**Figure 14**). As mentioned above, this information needs to be understood in the context of how Chinook salmon arrived at these spawning locations. They

were planted in the study area, and then selected their spawning location, meaning that spawning site selection may be influenced by where the fish were planted.

**Table 21. Field-verified (2008 – 2018) Redds per Year**

| Year | Chinook Salmon Redds[1] |
|---|---|
| **2008** | 3 |
| **2009** | 106 |
| **2010** | 143 |
| **2011** | 134 |
| **2012** | 97 |
| **2013** | 64 |
| **2014** | 24 |
| **2015** | 87 |
| **2016** | 193 |
| **2017** | 0 |
| **2018** | 16 |
| **Total** | **867** |

Table Notes:

1 Nez Perce Tribe 2018.

**Table 22. Field-verified (2008 – 2018) Redds per IP-rated Stream Segment**

| IP Rating | Length (meters) | Chinook Salmon Redds[1] | Redds per meter |
|---|---|---|---|
| **High** | 838.8 | 281 | 0.34 |
| **Medium** | 7,287.3 | 362 | 0.05 |
| **Low** | 8,714.4 | 214 | 0.02 |
| **Negligible** | 1,739.7 | 6 | 0.003 |
| **None** | 1,276.1 | 4 | 0.003 |
| **Total** | **19,668.8** | **867** | |

Table Notes:

1 Nez Perce Tribe 2018.

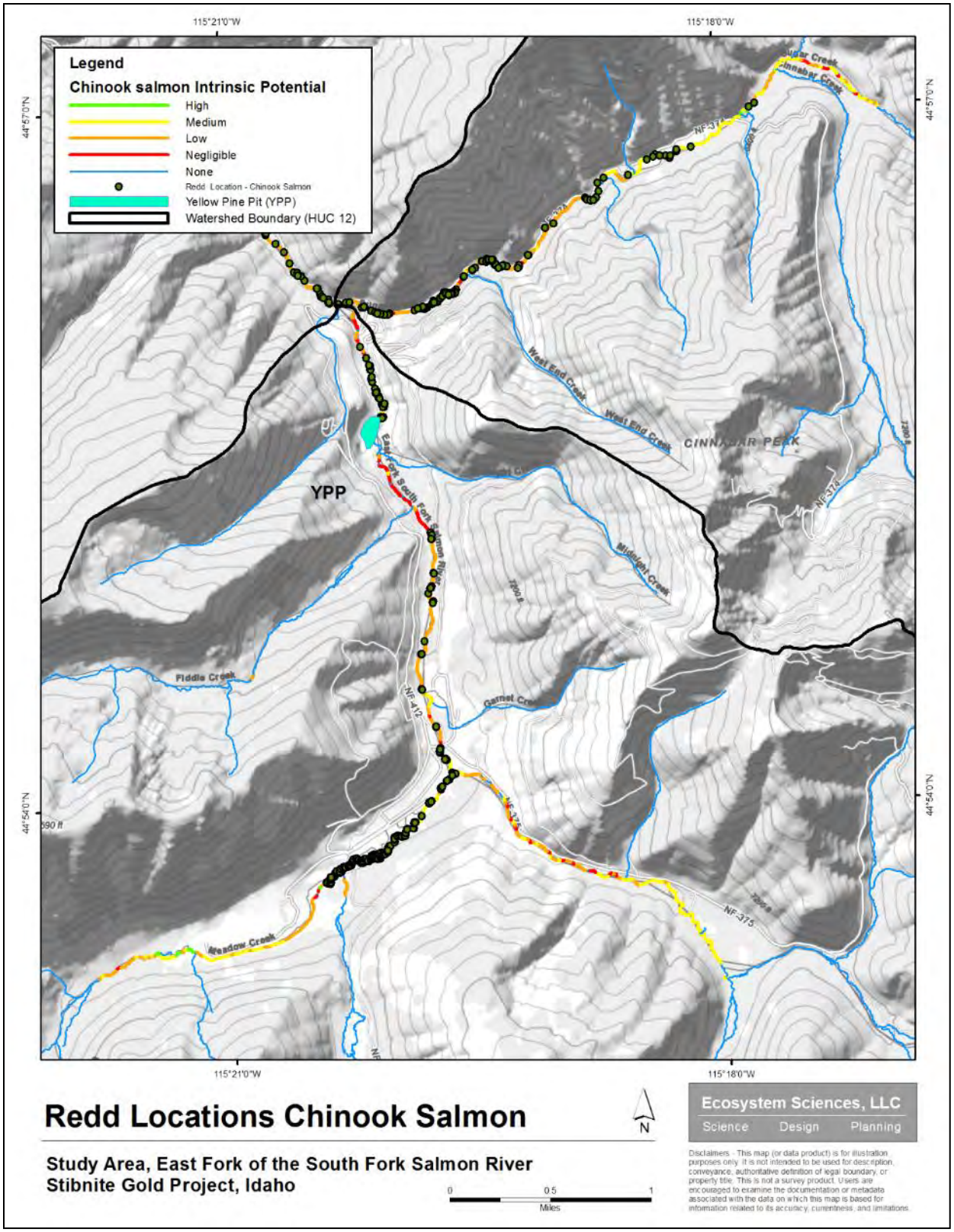



**Figure 14. Chinook Salmon Redd Locations in the Intrinsic Potential Model Study Area**

# 7.0 DISCUSSION

This Technical Memorandum explains the methods used and documents the results of the IP Model focused on spawning and early-rearing habitat for Spring/Summer Chinook salmon and Interior Columbia Basin (Snake River) steelhead in the study area. The IP model classifies the quality of spawning and early-rearing habitat for the two species in the Headwaters of the EFSFSR watershed from the confluence of Sugar Creek and the Upper EFSFSR upstream to the headwaters of both streams (HUC 12s; Sugar Creek and Headwaters of East Fork South Fork Salmon River). The methods used to determine the IP rating per stream segment follow the approach that Cooney and Holzer (2006) used for the Interior Columbia basin, in which the study area is located. The study area IP model differs from Cooney and Holzer's (2006) methodology by using mine site-scale data, consisting of 30-meter stream segments and other variables derived using 1-meter resolution Lidar data, field-verified metrics (PIBO and Rio ASE), and locally derived modeled parameters (Rio ASE derived equations for bankfull and wetted width). This scale of data varies considerably from the Cooney and Holzer (2006) regional model, which relied on 200-meter stream segments and 10-meter digital elevation models.

## 7.1 COMPARISON TO COONEY AND HOLZER (2006)

Cooney and Holzer's (2006) results differ from the study area IP model for Chinook salmon (**Figure 15**). One of the differences is Cooney and Holzer (2006) identified the YPP as a migration barrier for Chinook salmon. Therefore, the majority of the study area (Upper EFSFSR) is not rated for spawning and early rearing for Chinook salmon in the Cooney and Holzer (2006) model (**Figure 3**). Another difference between the two models is the presence of nearly 2,000 meters of stream rated as High for spawning and early-rearing habitat for Chinook salmon in the Cooney and Holzer (2006) model (**Figure 15**). This High-rated area occurs in the Sugar Creek drainage (**Figure 3**). Most of the High-rated Chinook IP habitat from the Stibnite Gold IP model occurs in stream segment 2 (Meadow Creek drainage) (**Figure 3**). The Stibnite Gold IP model identified significantly more Medium and Low-rated IP habitat in the study area than Cooney and Holzer (2006) (**Figure 15**). This is not surprising, because much of the Medium- and Low-rated IP habitat occurs upstream of the YPP.

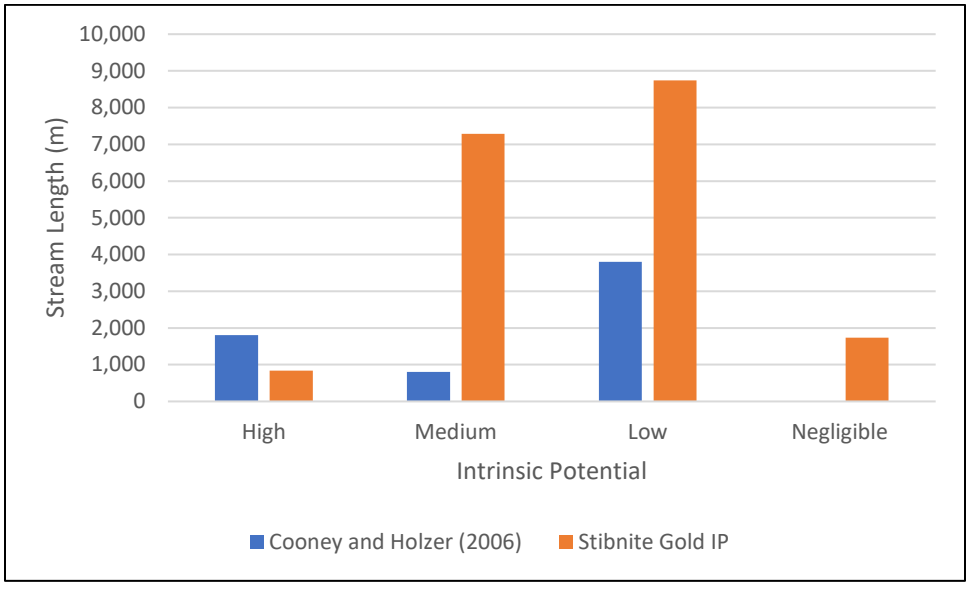



**Figure 15. Comparison of Cooney and Holzer (2006) IP Results to Stibnite Gold IP Model for Chinook Salmon**

For steelhead, the YPP was not considered a migration barrier in the Cooney and Holzer (2006) model. Therefore, the entire study area was analyzed by Cooney and Holzer (2006) for its intrinsic potential for steelhead. The major differences between Cooney and Holzer's (2006) results and the Stibnite Gold IP results are: 1) Cooney and Holzer (2006) identified more IP habitat than the study area model identified; and 2) Cooney and Holzer modeled more High- and Low-rated habitat for spawning and early rearing for steelhead (**Figure 16**). These differences in model results are attributed to different model inputs and the greater resolution of the data employed in the Stibnite Gold IP model. Primarily, the NHD streamlines and 10-meter DEM employed by Cooney and Holzer (2006) do not accurately reflect the on-the-ground conditions as noted by the ESA group, and the GIS analysis performed as part of the modeling process. This issue exemplifies the rationale for creating the Stibnite Gold IP model using ground-verified streamlines and 1-meter-resolution Lidar. Cooney and Holzer (2006) identify the headwater areas of Sugar Creek, Upper EFSFSR, and Meadow Creek as supporting spawning and early-rearing habitat for steelhead (**Figure 3**). Based on the 1-meter–derived slope calculations for these areas, all slopes are greater than 7 percent, which does not support IP habitat for steelhead (**Figure 2**). Therefore, these headwater areas, which are identified as potential spawning and rearing habitat in the Cooney and Holzer (2006) model, are not considered usable habitat in the study area IP model.

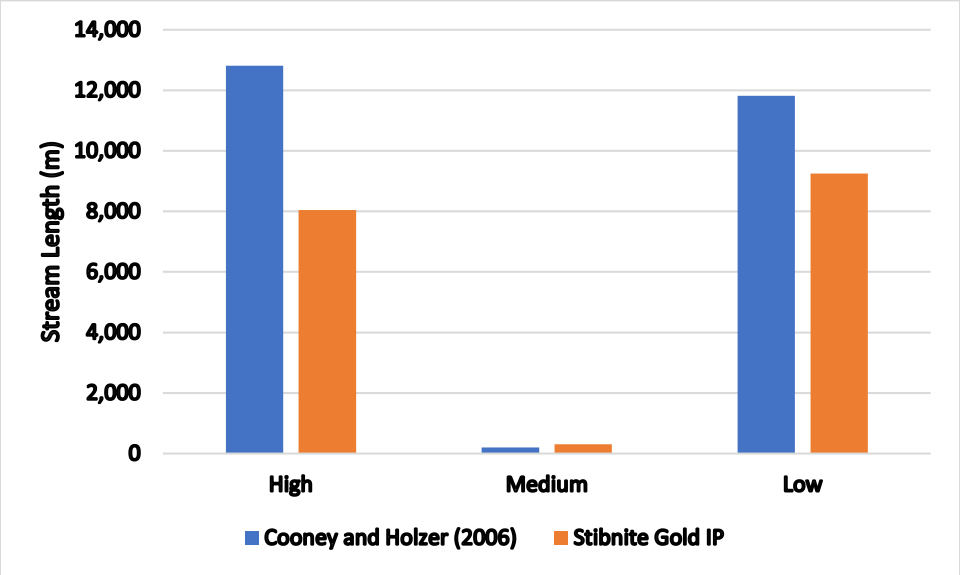



**Figure 16. Comparison of Cooney and Holzer (2006) IP Results to Stibnite Gold IP Model for Steelhead**

## 7.2 STUDY AREA IP

Overall, the study area supports roughly 18,610 meters of useable spawning and rearing habitat for Chinook salmon, and 17,898 meters for steelhead. Usable habitat is considered habitat rated as High, Medium, Low, and Negligible in the IP model. Although the study area offers more total Chinook salmon spawning and early-rearing habitat than total IP habitat for steelhead, the quality of that habitat is better for steelhead (**Figure 17**). The study area IP model indicates that over 8,000 meters of stream are rated as High for steelhead spawning and early-rearing habitat, compared to less than 1,000 meters of habitat for Chinook salmon (**Figure 17**). Chinook salmon's limited High-rated spawning and early-rearing habitat occurs primarily in the Meadow Creek drainage (**Figure 8**). High-rated steelhead spawning and early-rearing habitat occurs throughout the study area. Portions of Sugar Creek contain High-rated IP habitat; specifically, downstream

of Cinnabar Creek (**Figure 7**). In Meadow Creek, High-rated steelhead habitat occurs above and below the Spent Ore Disposal Area (**Figure 9**). Additionally, the Upper EFSFSR above the Meadow Creek confluence contains High-rated steelhead spawning and early-rearing habitat (**Figure 13**).

## 7.3 STREAM SEGMENT 5 VERSUS STREAM SEGMENT 6

Stream segment 5 (Headwaters EFSFSR HUC 12), which includes stream segments 1, 2, and 3, contains more usable habitat for Chinook salmon and steelhead than stream segment 6 (Sugar Creek) (**Figure 18** and **Figure 19**). Stream segment 5 contains 11,409 meters of useable Chinook salmon spawning and early-rearing habitat; while stream segment 6 provides 6,091 meters (**Figure 18**). Similarly, stream segment 5's drainage supports 9,670 meters of steelhead useable spawning and early-rearing habitat; while stream segment 6 supports 7,179 meters (**Figure 19**). Stream segment 5 also contains the majority of the High-rated Chinook salmon IP habitat in the study area (**Figure 18**). Additionally, stream segment 5 contains more High-rated steelhead IP habitat than stream segment 6, nearly 1,100 meters more in the Headwaters EFSFSR (stream segment 5) (**Figure 19**).

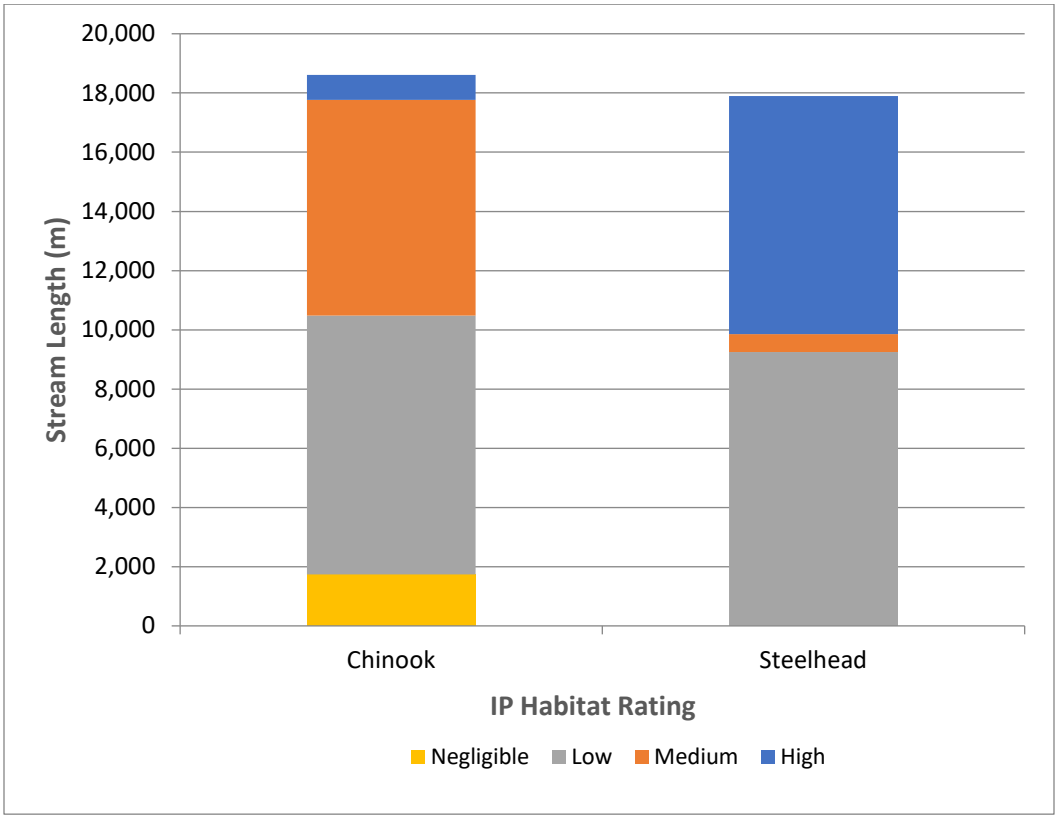



**Figure 17. Chinook Salmon and Steelhead IP Results for the Stibnite Gold Study Area**

## 7.4 STREAM SEGMENT 2 (MEADOW CREEK) VERSUS STREAM SEGMENT 3 (UPPER EFSFSR ABOVE MEADOW CREEK CONFLUENCE)

Stream segment 2 contains more usable Chinook salmon spawning and early-rearing habitat than stream segment 3 – there are over 4,200 meters of habitat in Meadow Creek, and roughly 3,160 meters of habitat in the Upper EFSFSR above Meadow Creek confluence (Figure 20). In addition,

the existing IP habitat for Chinook salmon is rated higher in stream segment 2 (**Figure 20**). Stream segment 2 is home to the only High-rated spawning and early-rearing habitat for Chinook salmon found in the two stream segments (Meadow Creek and Upper EFSFSR above Meadow Creek) (**Figure 20**).

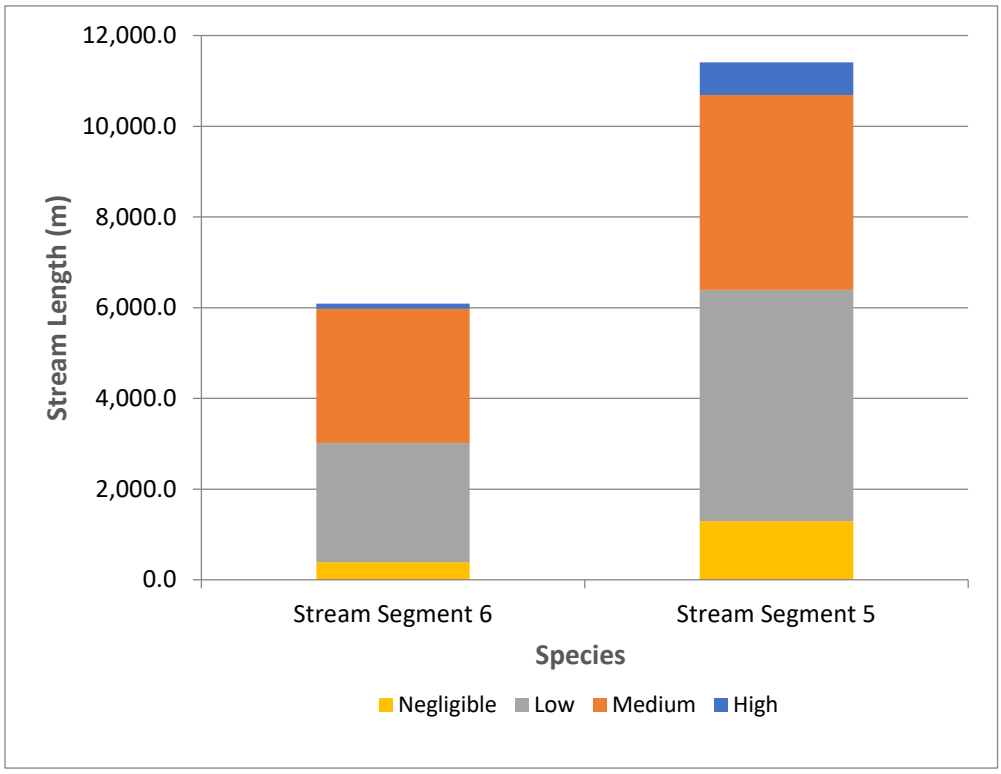



**Figure 18. Comparison of Chinook Salmon IP Results for Stream Segments 5 and 6**

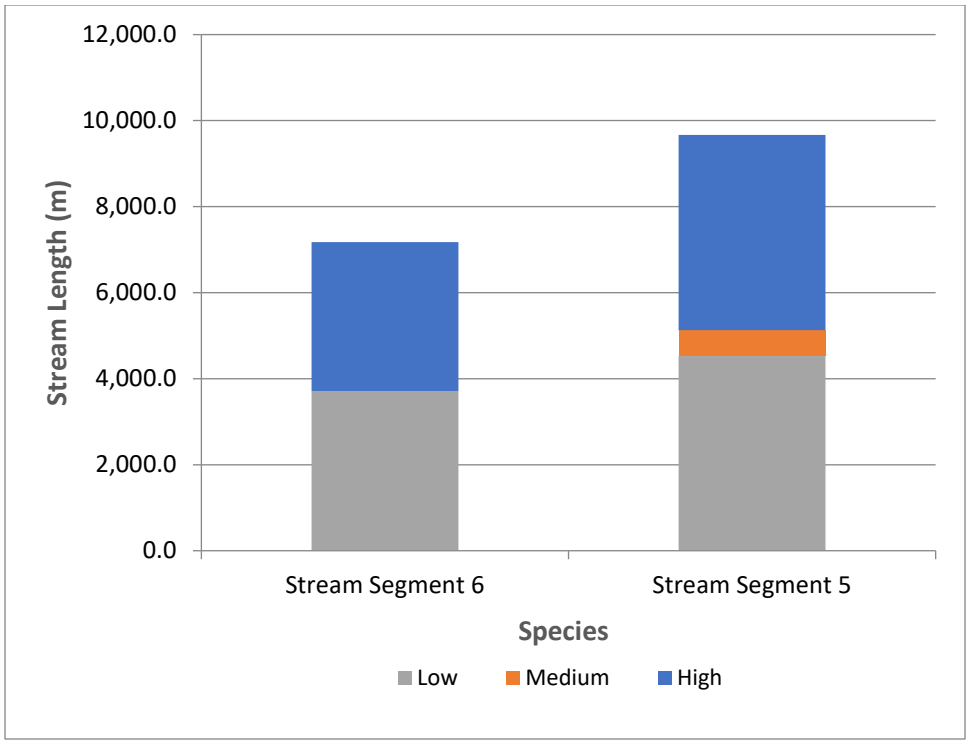



**Figure 19. Comparison of Steelhead IP Results for Stream Segments 5 and 6**

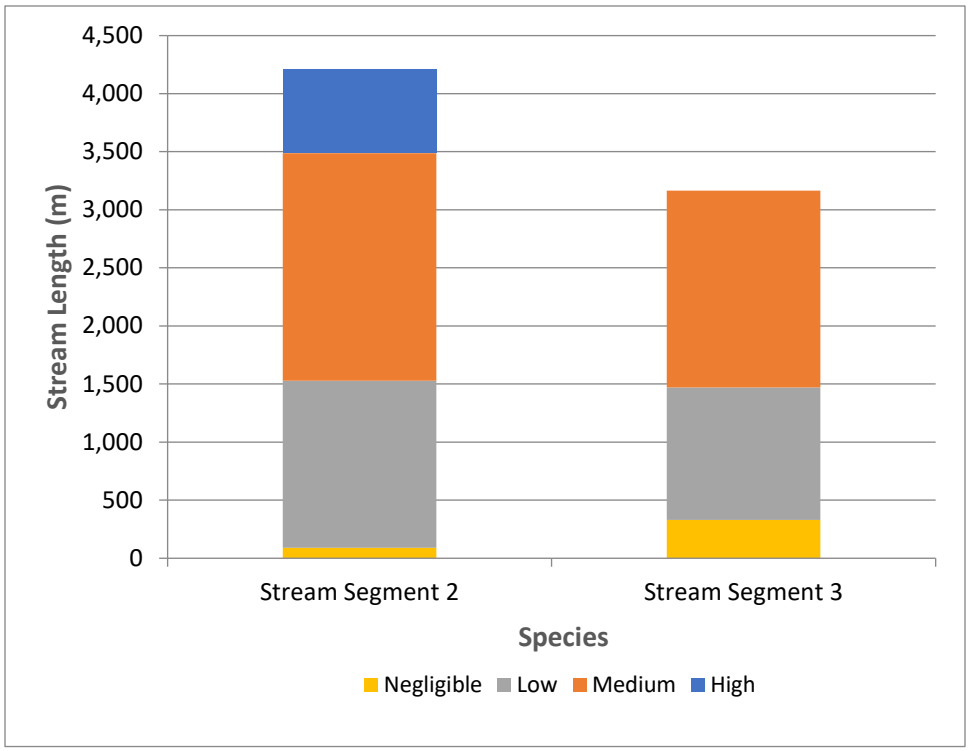



**Figure 20. Comparison of Chinook Salmon IP Habitat; Meadow Creek (Stream segment 2) and Upper EFSFSR above Meadow Creek Confluence (Stream Segment 3)**

Similarly, for steelhead, stream segment 2 provides more usable IP habitat than the Upper stream segment 3 – there are 3,790 meters of useable steelhead habitat in Meadow Creek, and 2,955 meters of useable habitat in the Upper EFSFSR above Meadow Creek confluence. Stream segment 2's drainage provides more than 400 meters of High-rated steelhead IP habitat than stream segment 3 (**Figure 21**). Meadow Creek (stream segment 2) is home to the only Medium-rated IP habitat for steelhead in the stream segments (Meadow Creek [2] and Upper EFSFSR above Meadow Creek [3]) (**Figure 21**). Both stream segments provide significant stream lengths of Low-rated spawning and early-rearing habitat for steelhead (**Figure 21**).

Overall, the study area (Headwaters of the EFSFSR and Sugar Creek) provides spawning and early-rearing habitat for Chinook salmon and steelhead. The tributaries to the Upper EFSFSR (Meadow Creek and Upper EFSFSR above Meadow Creek confluence) provide significant stream lengths of useable IP habitat for the two species.

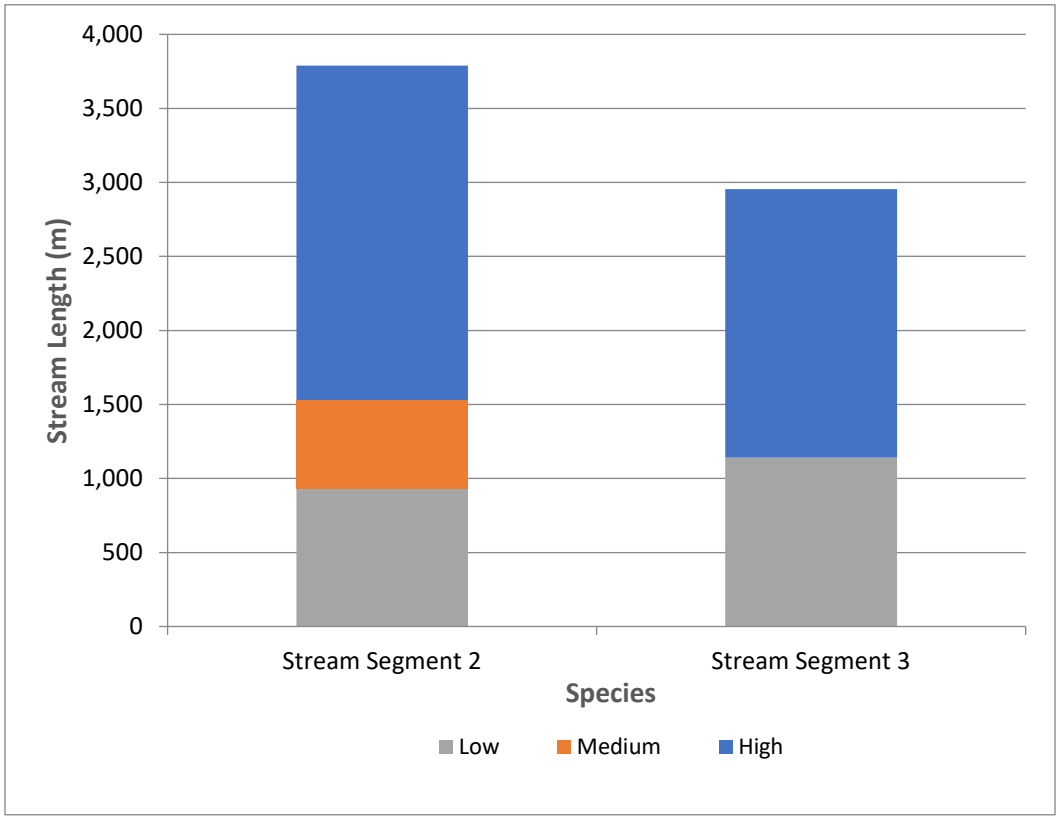



**Figure 21. Comparison of Steelhead IP Habitat; Meadow Creek (Stream Segment 2) and Upper EFSFSR above Meadow Creek Confluence (Stream Segment 3)**

# 8.0 SUMMARY

This document describes the approach, data, and methods for determining the variables needed to perform the IP model for Spring/Summer Chinook salmon and steelhead in the study area. The document also provides the IP model results for stream segments in the study area (e.g., Meadow Creek [stream segment 2] and Upper EFSFSR above Meadow Creek confluence [stream segment 3]). Overall, roughly 113,001 meters of the Upper EFSFSR were evaluated for IP. The study area supports 18,610 meters of potential spawning and early-rearing habitat for Chinook

salmon across all potential ratings from High to Negligible, and a total of 17,898 meters (High-, Medium-, and Low-rated) of potential habitat for steelhead. The model identified more total usable habitat for Chinook salmon, but higher-quality steelhead habitat. The IP model results also indicate that there are slight differences in the baseline IP results between stream segment 2 (Meadow Creek) and stream segment 3 (Upper EFSFSR above Meadow Creek confluence); Meadow Creek contains more usable spawning and rearing habitat than the Upper EFSFSR above Meadow Creek confluence for both Chinook salmon and steelhead.

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# APPENDIX A

# V-BET SENSITIVITY ANALYSIS

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# APPENDIX B

## STREAM SEGMENT MAP AND CHINOOK SALMON AND STEELHEAD RESULTS

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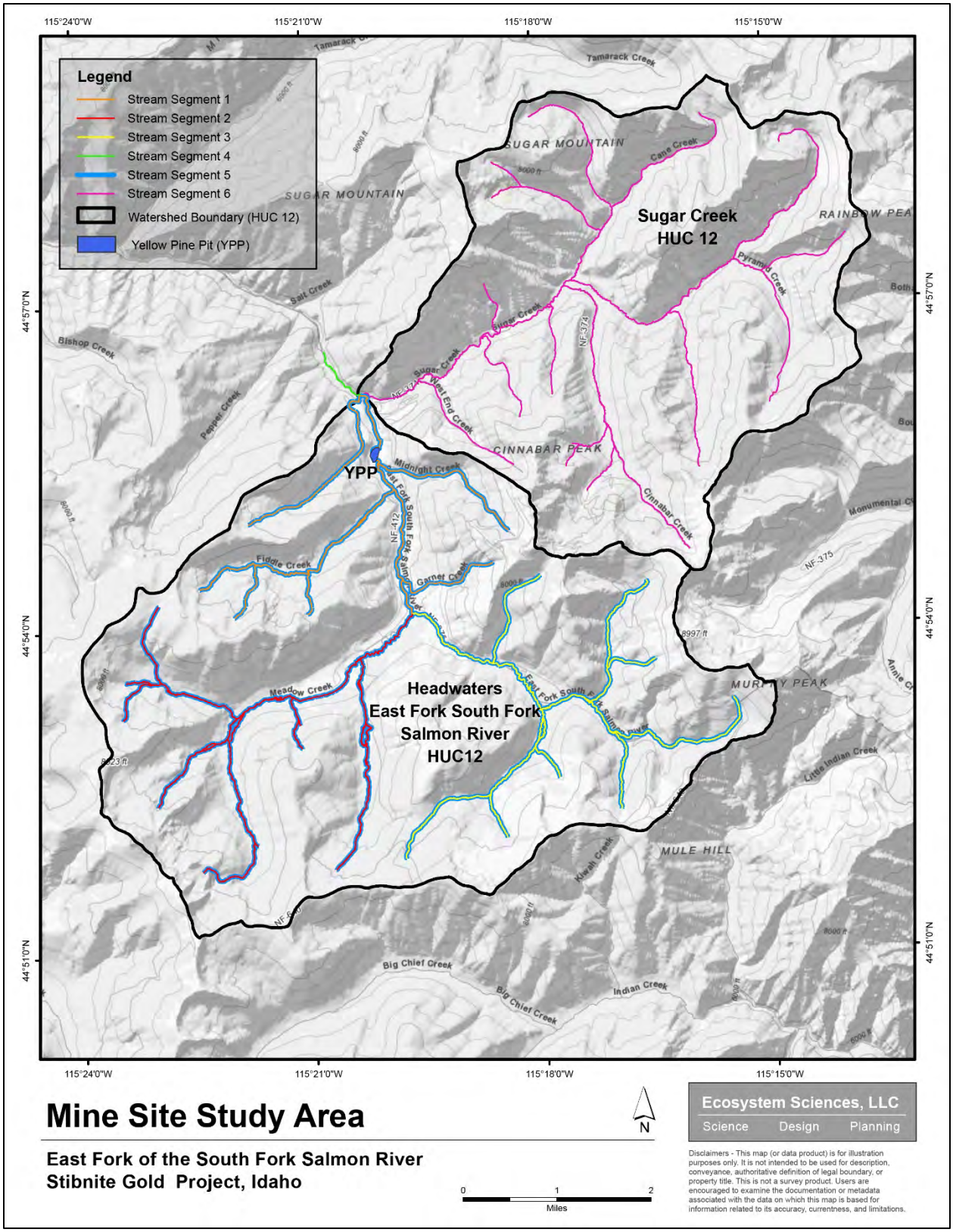



**Figure B1. Mine Site Stream Segment Map**

**Table B1. Chinook salmon IP habitat per Stream Segment**

| IP Rating | Stream Segment 1 (meters) | Stream Segment 2 (meters) | Stream Segment 3 (meters) | Stream Segment 4 (meters) | Stream Segment 5 (meters) | Stream Segment 6 (meters) |
|---|---|---|---|---|---|---|
| High | 0.0 | 721.4 | 0.0 | 0.0 | 721.4 | 117.4 |
| Medium | 645.0 | 1,959.4 | 1,694.7 | 30.0 | 4,299.1 | 2,958.2 |
| Low | 2,520.1 | 1,438.4 | 1,140.1 | 1,020.1 | 5,098.6 | 2,625.6 |
| Negligible | 870.1 | 89.9 | 330.0 | 60.0 | 1,290.0 | 389.7 |
| Useable | 4,035.2 | 4,209.1 | 3,164.8 | 1,110.1 | 11,409.2 | 6,090.9 |
| Total Area | 19,928.0 | 22,922.1 | 22,400.2 | 1,110.1 | 65,250.3 | 46,640.9 |

**Table B2. Steelhead IP habitat per Stream Segment**

| IP Rating | Stream Segment 1 (meters) | Stream Segment 2 (meters) | Stream Segment 3 (meters) | Stream Segment 4 (meters) | Stream Segment 5 (meters) | Stream Segment 6 (meters) |
|---|---|---|---|---|---|---|
| High | 465.0 | 2,259.0 | 1,814.7 | 30.0 | 4,538.70 | 3,473.8 |
| Medium | 0.0 | 601.6 | 0.0 | 0.0 | 601.6 | 0.0 |
| Low | 2,460.2 | 929.0 | 1,140.1 | 1,020.1 | 4,529.30 | 3,704.8 |
| Useable | 2,925.2 | 3,789.6 | 2,954.8 | 1,050.1 | 9,669.60 | 7,178.6 |
| Total Area | 19,928.0 | 22,922.1 | 22,400.2 | 1,110.1 | 65,250.30 | 46,640.9 |

- **Stream segment 1** includes the Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream segment 2** includes the entirety of the Meadow Creek drainage area.
- **Stream segment 3** includes the Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream segment 4** includes the modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream segment 5** covers the entirety of the HUC 12 “Headwaters East Fork South Fork Salmon River” (Figure 1). Stream segment 5 is the summation of stream segments 1, 2, and 3.
- **Stream segment 6** includes the Sugar Creek drainage area, or the HUC 12 “Sugar Creek” (Figure 1).

# APPENDIX C

# SFA REACH INTRINSIC POTENTIAL RESULTS; CHINOOK SALMON AND STEELHEAD

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| Chinook IP by SFA Reach | | | | Steelhead IP by SFA Reach | | | |
|---|---|---|---|---|---|---|---|
| **SFA Reach** | **Chin IP** | **Segments** | **Length (m)** | **SFA Reach** | **Steel IP** | **Segments** | **Length (m)** |
| NON-SFA | High | 4 | 117.4 | NON-SFA | High | 117 | 3,503.8 |
| NON-SFA | Low | 119 | 3555.7 | NON-SFA | Low | 158 | 4,724.9 |
| NON-SFA | Medium | 103 | 3078.2 | NON-SFA | Medium | NA | NA |
| NON-SFA | Negligible | 15 | 449.7 | NON-SFA | Negligible | NA | NA |
| NON-SFA | None | 1875 | 56200.6 | NON-SFA | None | 1841 | 55,172.9 |
| BC0.1 | None | 65 | 1917.0 | BC0.1 | None | 65 | 1,917.0 |
| BC1 | None | 22 | 629.8 | BC1 | None | 22 | 629.8 |
| BC2 | None | 17 | 479.2 | BC2 | None | 17 | 479.2 |
| BC2.1 | None | 21 | 571.2 | BC2.1 | None | 21 | 571.2 |
| BC3 | High | NA | NA | BC3 | High | 2 | 59.9 |
| BC3 | Low | NA | NA | BC3 | Low | 3 | 89.9 |
| BC3 | None | 9 | 209.7 | BC3 | None | 4 | 59.9 |
| BC4 | None | 2 | 59.9 | BC4 | None | 2 | 59.9 |
| BL1 | None | 2 | 30.2 | BL1 | None | 2 | 30.2 |
| BL2 | None | 10 | 149.6 | BL2 | None | 10 | 149.6 |
| EF0.01 | None | 40 | 1196.4 | EF0.01 | None | 40 | 1,196.4 |
| EF0.02 | None | 68 | 2040.2 | EF0.02 | None | 68 | 2,040.2 |
| EF0.03 | None | 15 | 420.0 | EF0.03 | None | 15 | 420.0 |
| EF0.04 | None | 30 | 870.1 | EF0.04 | None | 30 | 870.1 |
| EF0.05 | None | 57 | 1702.5 | EF0.05 | None | 57 | 1,702.5 |
| EF0.06 | None | 24 | 687.0 | EF0.06 | None | 24 | 687.0 |
| EF0.07 | None | 32 | 931.4 | EF0.07 | None | 32 | 931.4 |
| EF0.08 | None | 27 | 783.1 | EF0.08 | None | 27 | 783.1 |
| EF0.09 | None | 53 | 1580.6 | EF0.09 | None | 53 | 1,580.6 |
| EF0.10 | None | 37 | 1114.4 | EF0.10 | None | 37 | 1,114.4 |
| EF0.11 | None | 44 | 1278.8 | EF0.11 | None | 44 | 1,278.8 |
| EF0.12 | High | NA | NA | EF0.12 | High | 35 | 1,050.1 |
| EF0.12 | Low | 5 | 150.0 | EF0.12 | Low | NA | NA |
| EF0.12 | Medium | 30 | 900.1 | EF0.12 | Medium | NA | NA |
| EF0.12 | Negligible | NA | NA | EF0.12 | Negligible | NA | NA |
| EF0.12 | None | 2 | 30.0 | EF0.12 | None | 2 | 30.0 |
| EF0.14 | High | NA | NA | EF0.14 | High | 6 | 180.0 |
| EF0.14 | Low | 1 | 30.0 | EF0.14 | Low | 1 | 30.0 |
| EF0.14 | Medium | 6 | 180.0 | EF0.14 | Medium | NA | NA |
| EF0.15 | High | NA | NA | EF0.15 | High | 7 | 210.0 |
| EF0.15 | Low | 2 | 60.0 | EF0.15 | Low | 2 | 60.0 |
| EF0.15 | Medium | 7 | 210.0 | EF0.15 | Medium | NA | NA |
| EF0.16 | None | 20 | 604.0 | EF0.16 | None | 20 | 604.0 |
| EF0.17 | High | NA | NA | EF0.17 | High | 9 | 240.0 |
| EF0.17 | Low | 17 | 510.0 | EF0.17 | Low | 17 | 510.0 |
| EF0.17 | Medium | 9 | 240.0 | EF0.17 | Medium | NA | NA |
| EF0.17 | Negligible | 8 | 240.0 | EF0.17 | Negligible | NA | NA |
| EF0.17 | None | 1 | 30.0 | EF0.17 | None | 9 | 270.0 |
| EF0.18 | High | NA | NA | EF0.18 | High | 1 | 30.0 |
| EF0.18 | Low | 7 | 210.0 | EF0.18 | Low | 7 | 210.0 |
| EF0.18 | Medium | 3 | 60.0 | EF0.18 | Medium | NA | NA |
| EF0.18 | Negligible | 3 | 90.0 | EF0.18 | Negligible | NA | NA |
| EF0.18 | None | 0 | 0.0 | EF0.18 | None | 5 | 120.0 |
| EF0.19 | None | 13 | 386.6 | EF0.19 | None | 13 | 386.6 |
| EF0.20 | None | 26 | 724.9 | EF0.20 | None | 26 | 724.9 |
| EF0.21 | None | 7 | 208.5 | EF0.21 | None | 7 | 208.5 |
| EF1 | High | NA | NA | EF1 | High | 3 | 90.0 |
| EF1 | Low | 12 | 330.0 | EF1 | Low | 12 | 330.0 |
| EF1 | Medium | 3 | 90.0 | EF1 | Medium | NA | NA |
| EF1 | None | 5 | 150.0 | EF1 | None | 5 | 150.0 |
| EF2.1 | High | NA | NA | EF2.1 | High | 7 | 180.1 |
| EF2.1 | Low | 10 | 300.0 | EF2.1 | Low | 10 | 300.0 |
| EF2.1 | Medium | 9 | 240.1 | EF2.1 | Medium | NA | NA |
| EF2.1 | Negligible | 3 | 90.0 | EF2.1 | Negligible | NA | NA |
| EF2.1 | None | 1 | 30.0 | EF2.1 | None | 6 | 180.0 |
| EF2.2 | High | NA | NA | EF2.2 | High | 5 | 119.4 |
| EF2.2 | Low | 47 | 1410.1 | EF2.2 | Low | 47 | 1,410.1 |
| EF2.2 | Medium | 5 | 119.4 | EF2.2 | Medium | NA | NA |
| EF2.2 | Negligible | 9 | 270.0 | EF2.2 | Negligible | NA | NA |

| Chinook IP by SFA Reach | | | | Steelhead IP by SFA Reach | | | |
|---|---|---|---|---|---|---|---|
| **SFA Reach** | **Chin IP** | **Segments** | **Length (m)** | **SFA Reach** | **Steel IP** | **Segments** | **Length (m)** |
| EF2.2 | None | | | EF2.2 | None | 9 | 270.0 |
| EF2.3 | Negligible | 2 | 30.0 | EF2.3 | Negligible | NA | NA |
| EF2.3 | None | 2 | 30.0 | EF2.3 | None | 4 | 60.0 |
| EF2.4 | Negligible | 5 | 150.0 | EF2.4 | Negligible | NA | NA |
| EF2.4 | None | 2 | 60.0 | EF2.4 | None | 7 | 210.0 |
| EF2.5 | Medium | 3 | 30.0 | EF2.5 | Medium | NA | NA |
| EF2.5 | Negligible | 2 | 60.0 | EF2.5 | Negligible | NA | NA |
| EF2.5 | None | 2 | 30.0 | EF2.5 | None | 7 | 120.0 |
| EF3.1 | Low | 1 | 30.0 | EF3.1 | Low | 1 | 30.0 |
| EF3.1 | Negligible | 4 | 120.0 | EF3.1 | Negligible | NA | NA |
| EF3.1 | None | 3 | 60.0 | EF3.1 | None | 7 | 180.0 |
| EF3.2 | None | 5 | 150.0 | EF3.2 | None | 5 | 150.0 |
| EF3.3 | Low | 15 | 390.0 | EF3.3 | Low | 15 | 390.0 |
| EF3.3 | Medium | 3 | 90.0 | EF3.3 | Medium | NA | NA |
| EF3.3 | None | NA | NA | EF3.3 | None | 3 | 90.0 |
| EF4.1 | Low | 3 | 90.0 | EF4.1 | Low | 3 | 90.0 |
| EF4.1 | Medium | 2 | 30.0 | EF4.1 | Medium | NA | NA |
| EF4.1 | Negligible | 1 | 30.0 | EF4.1 | Negligible | NA | NA |
| EF4.1 | None | NA | NA | EF4.1 | None | 3 | 60.0 |
| EF4.2 | Low | 9 | 150.0 | EF4.2 | Low | 9 | 150.0 |
| EF4.2 | Negligible | 1 | 30.0 | EF4.2 | Negligible | NA | NA |
| EF4.2 | None | NA | NA | EF4.2 | None | 1 | 30.0 |
| EF4.3 | High | NA | NA | EF4.3 | High | 4 | 120.0 |
| EF4.3 | Low | 3 | 90.0 | EF4.3 | Low | 3 | 90.0 |
| EF4.3 | Medium | 4 | 120.0 | EF4.3 | Medium | NA | NA |
| EF4.3 | Negligible | 3 | 90.0 | EF4.3 | Negligible | NA | NA |
| EF4.3 | None | 2 | 60.0 | EF4.3 | None | 5 | 150.0 |
| FC0 | None | 4 | 59.8 | FC0 | None | 4 | 59.8 |
| FC0.1 | None | 24 | 688.0 | FC0.1 | None | 24 | 688.0 |
| FC0.2 | None | 37 | 1076.8 | FC0.2 | None | 37 | 1,076.8 |
| FC0.3 | None | 11 | 329.0 | FC0.3 | None | 11 | 329.0 |
| FC1 | None | 51 | 1341.3 | FC1 | None | 51 | 1,341.3 |
| FC2 | None | 26 | 717.1 | FC2 | None | 26 | 717.1 |
| FC3 | None | 3 | 89.7 | FC3 | None | 3 | 89.7 |
| GC0 | None | 21 | 631.4 | GC0 | None | 21 | 631.4 |
| GC0.1 | None | 13 | 360.8 | GC0.1 | None | 13 | 360.8 |
| GC1 | None | 4 | 90.2 | GC1 | None | 4 | 90.2 |
| HC0.01 | None | 44 | 1291.8 | HC0.01 | None | 44 | 1,291.8 |
| HC0.1 | None | 3 | 60.1 | HC0.1 | None | 3 | 60.1 |
| HC0.2 | None | 5 | 30.0 | HC0.2 | None | 5 | 30.0 |
| HC1.1 | None | 5 | 90.1 | HC1.1 | None | 5 | 90.1 |
| HC1.2 | None | 21 | 600.8 | HC1.2 | None | 21 | 600.8 |
| HC1.3 | None | 23 | 600.8 | HC1.3 | None | 23 | 600.8 |
| HC1.4 | None | 2 | 60.1 | HC1.4 | None | 2 | 60.1 |
| HL1 | High | 3 | 89.9 | HL1 | High | 6 | 149.8 |
| HL1 | Medium | 6 | 149.8 | HL1 | Medium | 3 | 89.9 |
| HL2 | High | 13 | 359.6 | HL2 | High | 14 | 389.6 |
| HL2 | Medium | 11 | 329.6 | HL2 | Medium | 10 | 299.7 |
| MC0.01 | None | 24 | 719.2 | MC0.01 | None | 24 | 719.2 |
| MC0.02 | None | 16 | 419.6 | MC0.02 | None | 16 | 419.6 |
| MC0.03 | None | 22 | 662.8 | MC0.03 | None | 22 | 662.8 |
| MC0.04 | None | 9 | 268.3 | MC0.04 | None | 9 | 268.3 |
| MC0.05 | None | 18 | 542.5 | MC0.05 | None | 18 | 542.5 |
| MC0.06 | None | 29 | 775.2 | MC0.06 | None | 29 | 775.2 |
| MC0.7 | None | 7 | 120.5 | MC0.7 | None | 7 | 120.5 |
| MC0.8 | None | 4 | 59.6 | MC0.8 | None | 4 | 59.6 |
| MC0.9 | None | 18 | 509.5 | MC0.9 | None | 18 | 509.5 |
| MC1.1 | None | 40 | 1168.8 | MC1.1 | None | 40 | 1,168.8 |
| MC1.2 | None | 30 | 891.9 | MC1.2 | None | 30 | 891.9 |
| MC1.3 | None | 28 | 805.0 | MC1.3 | None | 28 | 805.0 |
| MC1.4 | High | NA | NA | MC1.4 | High | 3 | 89.9 |
| MC1.4 | Low | NA | NA | MC1.4 | Low | 1 | 30.0 |
| MC1.4 | None | 40 | 1153.9 | MC1.4 | None | 36 | 1,034.1 |
| MC1.5 | High | 1 | 32.2 | MC1.5 | High | 25 | 688.8 |

| Chinook IP by SFA Reach | | | | Steelhead IP by SFA Reach | | | |
|---|---|---|---|---|---|---|---|
| **SFA Reach** | **Chin IP** | **Segments** | **Length (m)** | **SFA Reach** | **Steel IP** | **Segments** | **Length (m)** |
| MC1.5 | Low | 9 | 269.7 | MC1.5 | Low | 3 | 89.9 |
| MC1.5 | Medium | 9 | 239.3 | MC1.5 | Medium | 1 | 32.2 |
| MC1.5 | None | 19 | 495.8 | MC1.5 | None | 9 | 226.1 |
| MC2 | High | NA | NA | MC2 | High | 6 | 149.8 |
| MC2 | Low | 2 | 30.0 | MC2 | Low | NA | NA |
| MC2 | Medium | NA | NA | MC2 | Medium | 4 | 119.9 |
| MC2 | None | 8 | 239.7 | MC2 | None | NA | NA |
| MC3 | Low | 5 | 149.8 | MC3 | Low | 5 | 149.8 |
| MC3 | Medium | 15 | 449.5 | MC3 | Medium | NA | NA |
| MC3 | None | NA | NA | MC3 | None | 15 | 449.5 |
| MC4.1 | Low | 16 | 479.5 | MC4.1 | Low | 16 | 479.5 |
| MC4.1 | Medium | 4 | 89.9 | MC4.1 | Medium | NA | NA |
| MC4.1 | Negligible | 2 | 59.9 | MC4.1 | Negligible | NA | NA |
| MC4.1 | None | 1 | 30.0 | MC4.1 | None | 7 | 179.8 |
| MC4.2 | High | 2 | 30.0 | MC4.2 | High | 1 | 30.0 |
| MC4.2 | Low | 1 | 30.0 | MC4.2 | Low | NA | NA |
| MC4.2 | Medium | NA | NA | MC4.2 | Medium | 2 | 30.0 |
| MC5 | High | 3 | 30.0 | MC5 | High | 7 | 119.9 |
| MC5 | Medium | 4 | 89.9 | MC5 | Medium | NA | NA |
| MC6 | High | 1 | 30.0 | MC6 | High | 20 | 581.3 |
| MC6 | Low | 3 | 89.9 | MC6 | Low | 3 | 89.9 |
| MC6 | Medium | 20 | 581.3 | MC6 | Medium | 1 | 30.0 |
| MN0 | None | 5 | 149.6 | MN0 | None | 5 | 149.6 |
| MN0.1 | None | 26 | 778.0 | MN0.1 | None | 26 | 778.0 |
| MN0.2 | None | 7 | 149.6 | MN0.2 | None | 7 | 149.6 |
| MN0.3 | None | 23 | 628.4 | MN0.3 | None | 23 | 628.4 |
| MN0.4 | None | 15 | 359.1 | MN0.4 | None | 15 | 359.1 |
| MN1 | None | 7 | 149.6 | MN1 | None | 7 | 149.6 |
| MN2 | None | 1 | 29.9 | MN2 | None | 1 | 29.9 |
| YP1 | Medium | 3 | 60.0 | YP1 | High | 3 | 60.0 |
| YP1 | None | 8 | 240.0 | YP1 | None | 8 | 240.0 |
| | Total | 3874 | 113001 | | Total | 3874 | 113001 |

# PROPOSED ACTION INTRINSIC POTENTIAL MODEL

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

Ecosystem Sciences

Science · Planning · Design

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Prepared for: AECOM

Project Title: Stibnite Gold Project

# Technical Memorandum

Subject: Proposed Action Intrinsic Potential Model

Date: November 22, 2019

To: AECOM

From: Ecosystem Sciences, LLC

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# Definitions

| | |
|---|---|
| Bankfull width | The difference (length) between the banks at bankfull discharge. |
| DRSF | Development Rock Storage Facility. |
| ESA group | Organizations consistently involved in approximately monthly meetings during the informal ESA consultation process. The principal agencies were USFS, USFWS, USACE, NOAA Fisheries, and Midas Gold. |
| ESA | Endangered Species Act. |
| GIS | Geographic Information System. |
| Intrinsic Potential (IP) | The potential for a stream reach to contain spawning and early-rearing habitat for the species of interest based on the reach's geomorphic characteristics. |
| Midas Gold | Midas Gold Idaho, Inc. |
| Mine Life | The timeframe that the mine is operational. For this study, mine life is defined by the Plan of Operations (Midas Gold 2016) and the SPLNT model (Brown and Caldwell 2019). |
| NOAA Fisheries | National Oceanic and Atmospheric Administration Fisheries. |
| PA | Proposed action as defined by the PRO. |
| PRO | Project plan as described in the Midas Gold Plan of Restoration and Operations, dated September 2016. |
| Rio ASE data | Data collected by Rio ASE as part of the Stibnite Gold Project Stream Design Report (Rio ASE 2018). |
| Stream Functional Assessment (SFA) | Stream Functional Assessment. |
| Streamlines | The ESRI ArcMap shapefile that estimates the precise location of the stream watercourses within the study area. |
| TSF | Tailings Storage Facility. |
| USACE | United States Army Corps of Engineers. |
| USFS | United States Forest Service. |
| USFWS | U.S. Fish and Wildlife Service. |
| Valley Bottom Ratio | The ratio between the width of the valley bottom and the bankfull width. |
| Wetted width | The wetted width of the stream during the late-summer to early- fall baseflow season. |
| Year Negative 2 (-2) | The first year that mine activities take place. |

# 1.0 INTRODUCTION

This Technical Memorandum presents the methods and results of the Stibnite Gold Project Proposed Action Intrinsic Potential (IP) model for Spring/Summer Chinook salmon (*Oncorhynchus tshawytscha)* and Interior Columbia Basin (Snake River) steelhead (*Oncorhynchus mykiss)* in the Stibnite Gold Study Area, or study area (as defined in Section 2.0). The Proposed Action (PA) is defined by the Midas Gold Plan of Restoration and Operations (PRO), dated September 2016 (Midas Gold 2016). The goal of the analysis was to derive the IP of streams in the study area to support spawning and early-rearing habitat for the two species throughout the life of the proposed Stibnite Gold Project. The "mine life" in this context is defined as 2 years before mining takes place (Year -2), and for the 20 years that mining operations and reclamation are scheduled to occur. Therefore, this report presents 22 years of IP model results. Results are compared to existing conditions, or baseline, IP results (reported in a separate technical memorandum titled, "Existing Conditions (Baseline) Intrinsic Potential Model Technical Memorandum" (Ecosystem Sciences 2019). The end of the proposed mine IP model coincides with the completion of all the restoration and enhancement of stream reaches in the study area. Following end-of-year (EOY) 20, all stream channels would be located in their permanent locations.

The IP model classifies the quality of spawning and early-rearing habitat for the two species in the study area reaches (**Figure 1**); from the confluence of Sugar Creek and the Upper East Fork South Fork Salmon River (EFSFSR) upstream to the headwaters of both streams (Hydrologic Unit Code [HUC] 12s; Sugar Creek and Headwaters East Fork South Fork Salmon River). This technical memorandum continues the analysis presented in the Existing Conditions (Baseline) Intrinsic Potential Model Technical Memorandum (Ecosystem Sciences 2019). These two memos combined describe the baseline IP habitat, and IP habitat throughout the 22-year mine life.

The IP model is a categorical classification of habitat quality, rather than a continuous classification of habitat (e.g., index values, habitat suitability criteria). Classification for each reach ranges from None (no intrinsic potential to support habitat) to High (likely to provide spawning and early-rearing habitat). Chinook salmon IP includes a negligible category that is not included for steelhead. This modeling effort and results support the analysis of impacts to fish and fish habitat based on proposed project actions in the study area from 2 years prior (years -2 and -1) to project actions through the mining phase and post-restoration; a total of 22 years.

## 1.1 CONSULTATION

This modeling effort is a result of an extensive consultation process involving members of the Endangered Species Act (ESA) fish informal consultation group (ESA group[1]) involved in the Stibnite Gold Project. The original concept and approach to adapting an existing IP model for the region, which is documented in the publication "Appendix C: Interior Columbia Basin Stream Type Chinook Salmon and Steelhead Populations: Habitat Intrinsic Potential Analysis" (Cooney and Holzer 2006), was originally presented to the ESA group on February 7, 2018. Over the course of the next year and half, the methods, data inputs, analysis, and results were discussed during numerous conference calls, in-person meetings, and via email correspondence. Numerous presentations were made at informal ESA consultation meetings beginning in June 2018; and generally reoccurred monthly. Information presented at these meetings included, but was not limited to: categorical scoring of Cooney and Holzer (2006); derivation and refinement of the

[1] ESA group consisted of USFS, NOAA, USFWS, Midas Gold, and USACE. These entities constituted the core group of participants; however, other entities occasionally attended meetings.

streamlines (the GIS shapefile used to represent the specific location of the streams in the landscape) to be used; stream segmentation process; derivation of bankfull width; derivation of wetted width; slope calculations; valley bottom width tool (V-BET); sensitivity analysis of V-BET; the utility of applying intrinsic or extrinsic screens; results for example reaches; comparison between Cooney and Holzer (2006) results in Sugar Creek with preliminary modeling results; and the preliminary baseline modeling results and preliminary PA results. Numerous modeling decisions regarding scale, data inputs, etc., were made based on ESA group input. For example, the decision not to apply any intrinsic or extrinsic screens to the IP model was based on feedback from the ESA Group provided during meetings and presentations.

# 2.0 STUDY AREA

The Stibnite Gold Project study area for the Proposed Action IP model is the same as the Baseline (Existing Conditions) Model (Ecosystem Sciences 2019). The study area includes the stream courses in the Upper East Fork South Fork Salmon River watershed (HUC 10 – 1706020802). Two sub-watersheds are included in the study area: Headwaters East Fork South Fork Salmon River (HUC 12 – 170602080201) and Sugar Creek (HUC 12 – 1706020803) (**Figure 1**). Special emphasis is on the stream reaches delineated by the Stream Functional Assessment (SFA, Rio-ASE 2019), focusing on the Stibnite Gold Project impact areas. A portion of the EFSFSR downstream of the confluence with Sugar Creek was rated for IP to ensure full coverage of the study area–related impacts (**Figure 1**). To facilitate comparison of model results, the study area is broken into six stream segments. The stream segments are described below:

- **Stream segment 1** includes the Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream segment 2** includes the entirety of the Meadow Creek drainage area.
- **Stream segment 3** includes the Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream segment 4** includes the modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream segment 5** covers the entirety of the HUC 12 “Headwaters East Fork South Fork Salmon River” (**Figure 1**). Stream segment 5 is the summation of stream segments 1, 2, and 3.
- **Stream segment 6** includes the Sugar Creek drainage area, or the HUC 12 “Sugar Creek” (**Figure 1**).

**Appendix B** presents a map of the stream segments.

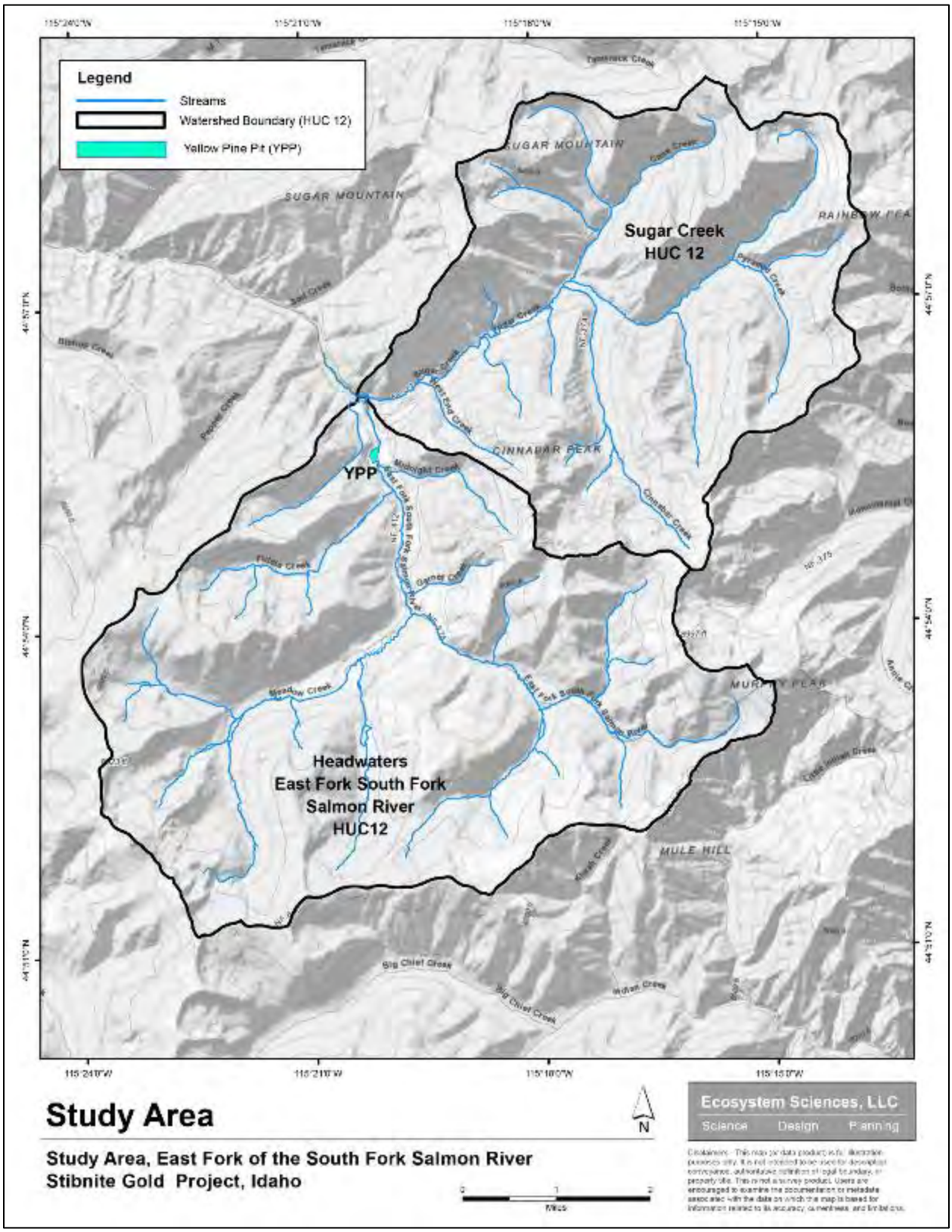



**Figure 1. Study Area Stibnite Gold Project Proposed Action Intrinsic Potential (IP) Model**

# 3.0 METHODS

Similar to the Baseline IP model (Ecosystem Sciences 2019), the Proposed Action IP Model approach is based on an existing IP model for the Interior Columbia Basin, developed by Cooney and Holzer (2006) (**Table 1**). The Proposed Action IP model builds off methods used in Cooney and Holzer's (2006) model; and adapts it to the study area and the impacted reaches (collectively termed SFA reaches, because they are located where a Stream Functional Assessment was performed). Using GIS-derived and enhanced, restored, and interim channel design (Rio ASE 2018) the Proposed Action IP model evaluates stream-reach geomorphic conditions (i.e., wetted width, bankfull width, stream gradient, and floodplain width) and the ability of modeled stream segments to support spawning and early-rearing habitat for Chinook salmon and steelhead.

## 3.1 PROPOSED ACTION PERTINENT EVENTS

The stream configuration in the study area would be changed throughout the mine life as Project activities are implemented; some actions would be permanent, while others would be temporary during the mine life, only to be reactivated at a later time. **Table 2** describes the pertinent events that would occur throughout the mine life and the SFA reaches (stream segments) that would be affected. The mine life events and stream configuration (SFA reaches affected) changes shown in **Table 2** were obtained from the "*Stibnite Gold Project Stream and Pit Lake Network Temperature Model (SPLNT) Proposed Action and Proposed Action with Modifications Report*" (Brown and Caldwell 2019), herein referred to as the SPLNT report. The PRO also provided information on mine life actions (Midas Gold 2016). Section 10 of the SPLNT report graphically (map based) documents the year-to-year changes during mine life (Brown and Caldwell 2019). On each map in Section 10, the following note appears: "*Activities are depicted in the earliest possible year of implementation. Actual implementation will be phased to accommodate site construction activities, material availability (earth, rock and vegetation), lodging for workforce, mine plan, and general leveling of contractor and internal resources*" (Brown and Caldwell 2019). Therefore, there may be changes to the schedule as the project progresses; however, impacts to IP habitat would be consistent with the event that causes those changes to occur. For example, the filling of Hangar Flats Lake may take more or less time, based on the water years (i.e., low-water years or high-water years) during the pit-filling time period. Regardless of the duration of the pit being filled, the resultant IP changes when the pit is totally filled would be the same (e.g., SFA reaches HL1 and HL2 go away [see Mine Year 19, **Table 2**]).

## Table 1. Cooney and Holzer Categorical Intrinsic Potential (IP) Models for Chinook Salmon and Steelhead

Note the correction to the table for Chinook salmon: wetted width was substituted for bankfull width and the called-out category was corrected to 3.6 to 25 meters, per NOAA Fisheries consultation.[2] Criteria that were modified based on consultation with NOAA Fisheries are called out in red text.

Adapted from Cooney and Holzer (2006) "Table 7. Relative potential for Interior Columbia basin steelhead spawning and initial Rearing as a function of stream reach physical characteristics."

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| Bankfull Width (BF) | Gradient | Confined (≤4 x BF width) | Moderate (4-20 x BF width) | Wide (>20 x BF width) |
| BF < 3.8 m | ≥ 0 | None | None | None |
| BF 3.8 m to 25 m | 0 – 0.5 | None | Medium | Medium |
| | 0.5 – 4.0 | Low | High | High |
| | 4.0 – 7.0 | None | Low | Low |
| | > 7.0 | None | None | None |
| BF 25 m to 50 m | 0 – 4.0 | Low | Medium | Medium |
| | > 4.0 | None | None | None |
| BF > 50 m | ≥ 0 | None | Low | Low |

Adapted from Cooney and Holzer (2006) "Table 3. Relative potential for Interior Columbia basin Spring/Summer Chinook salmon spawning and initial rearing as a function of stream reach physical characteristics."

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| Wetted Width (WW) | Gradient | Confined (≤4 x BF width) | Moderate (4-20 x BF width) | Wide (>20 x BF width) |
| WW < 3.7 m | ≥ 0 | None | None | None |
| WW 3.6 m to 25 m | 0 – 0.5 | Medium | High | High |
| | 0.5 – 1.5 | Low | Medium | High |
| | 1.5 – 4.0 | Low | Low | Medium |
| | 4.0 – 7.0 | Negligible | Low | Low |
| | > 7.0 | None | None | None |
| WW 25 m to 50 m | 0 – 0.5 | None | Medium | Medium |
| | 0.5 – 10 | None | None | None |
| | ≥ 10 | None | None | None |
| WW> 50 m | ≥ 0 | None | None | None |

Table Notes:

*red items were modified from the original publication.

> = greater than

< = less than

≥ = equal to or greater than

BF = bankfull

M = meter

[2] Johnna Sandow, NOAA Fisheries, personal consultation. The authors of the original table were consulted, and the correction sent via Johnna Sandow to the ESA group.

**Table 2. Proposed Action Pertinent Events Per Year that Affect Stream Configuration (SFA Reach) and IP Habitat Adapted from SPLNT Report**

| Mine Year | Proposed Action Events Impacting IP Streams | SFA Reach/s Affected |
|---|---|---|
| Neg. 2 (-2) | Meadow Creek and tributaries diverted around both sides of TSF and Hangar Flats DRSF. EFSFSR tunnel construction begun, but no water diverted. | MC0.7 to MC1.5, MC2, MC3, MC4.1 |
| Neg. 1 (-1) | EFSFSR Tunnel completed water diversion initiated, Hennessy and Midnight Creek diverted into tunnel, EFSFSR and Meadow Creek enhancement, Meadow Creek restored around Hangar Flats pit, EF Meadow Creek (Blowout Creek) engineered channel/rock drain, West End diversion completed. | BC2, BC2.1, BC3, EF1, EF2.1 – EF2.4, EF3.2, EF3.3, EF4.1, HL1 and HL2, MN0, MC4.2, MC 5, MC6, WE1, WE2, WE3, WL1 |
| 1 | YPP dewatered (EFSFSR flow in tunnel), rapid infiltration basins (Hangar Flats) initiated. | |
| 2 | Fiddle Creek diverted around DRSF | FC0, FC1, FC2 |
| 3 | Same configuration as Mine Year 2 | |
| 4 | Same configuration as Mine Year 2 | |
| 5 | Same configuration as Mine Year 2 | |
| 6 | Same configuration as Mine Year 2 | |
| 7 | West End Creek restored atop DRSF | WE1 |
| 8 | Fiddle Creek restoration begun, but no flow diverted | |
| 9 | Initial flow diverted into restored Fiddle Creek channel | FCO, FC1, FC2 |
| 10 | All flow diverted into restored Fiddle Creek channel | FCO, FC1, FC2 |
| 11 | EFSFSR, Hennessy Creek, and Midnight Creek restoration begun, but no flow diverted | |
| 12 | Portion of flow diverted into EFSFSR, Hennessy Creek, and Midnight Creek restored channels | EF2.5, EF3.1, EF3.2, EF3.3, EF4.1, HC1.1, HC1.2, MN0, MN0.4, MN1, MN2 |
| 13 | All flow diverted in EFSFSR, Hennessy Creek, and Midnight Creek restored channels. Hangar Flats (HF) Lake begins to fill. Entrance and exit channels constructed connecting Meadow Creek and EF Meadow Creek (Blowout Creek) to HF lake. Restore EF Meadow Creek (blowout Creek) from upper meadow to confluence with Meadow Creek. West End Rock chute constructed | EF2.5, EF3.1, EF3.2, EF3.3, EF4.1, HC1.1, HC1.2, MN0, MN0.4, MN1, MN2, BC1, BC2, BC2.1, BC3, MC4.2, MC5, WE2, WE3 |
| 14 | Same configuration as Mine Year 13 | |
| 15 | EFSFSR Tunnel decommissioned, HF lake continues to fill. Garnett Creek restored. | G1 |
| 16 | Same configuration as Mine Year 15 | |
| 17 | Meadow Creek constructed on TSF and DRSF. Portion of flow diverted intro restored channel. | MC0.7, MC0.8, MC0.8, MC1.1 – MC1.5, MC2, MC3, MC4.1 |
| 18 | All flow diverted into Meadow Creek restored channels on TSF and DRSF | MC0.7, MC0.8, MC0.8, MC1.1 – MC1.5, MC2, MC3, MC4.1 |
| 19 | Hanger Flats Lake is full. HL1 and HL2 are abandoned, and Meadow Creek and E. Fork of Meadow Creek are routed into the Lake. | HL1, HL2, MC4.2, MC5, BC3 |

| Mine Year | Proposed Action Events Impacting IP Streams | SFA Reach/s Affected |
|---|---|---|
| 20 | Same configuration as Mine Year 19 – (Figure 3.3 SPLNT Model and Proposed Action Report) | |

Table Source: Brown and Caldwell 2019

## 3.2 DATA EMPLOYED

Creating the Proposed Action IP model required numerous steps and model inputs. **Table 3** documents the input parameters for the Proposed Action IP model, the pertinent values per species, and the data sources. No field data were employed in the Proposed Action IP model. Only stream segments that would be impacted by mine activities were modeled per year. Non-impacted stream segments IP remained the same as the Baseline Model (existing conditions). Non-impacted stream segments include most of the Sugar Creek drainage (excluding West End Creek) and the Upper EFSFSR above the confluence with Meadow Creek; excluding, roughly, the first 600 meters of the EFSFSR directly upstream of the confluence with Meadow Creek (SFA reach EF1, enhanced in mine life Year negative 1 [-1]). Impacted stream segments correspond to the SFA reaches; areas in the study area that would be enhanced, restored, or impacted by flow reductions, or lost altogether (Meadow Creek through Hangar Flats Lake). Wetted width for impacted reaches was derived by Rio ASE (Rio ASE 2019), and is further described in **Table 3**. Bankfull width, gradient, and valley bottom width parameters for restored and enhanced SFA reaches are described in Rio ASE's Stream Design Report (Rio ASE 2018) (**Table 3**). Valley Bottom Width Ratio for SFA reaches was derived in ArcGIS by dividing the valley bottom width by the bankfull width (**Table 3**).

**Table 3. Data Employed to Create the Proposed Action Intrinsic Potential Model for Chinook Salmon and Steelhead – SFA Impacted Reaches**

| Parameter | Chinook | Steelhead | Source |
|---|---|---|---|
| Wetted Width (m) | ≥3.6m | N/A | Wetted Width Calculation workbook Rio ASE (2019) |
| Bankfull (m) | N/A | ≥3.8m | Stream Design Report (Appendix D) Rio ASE (2018) |
| Gradient (% Slope) | <7% | <7% | Stream Design Report (Appendix D) Rio ASE (2018) |
| Valley Bottom Width (m) | Reach Dependent | Reach Dependent | Stream Design Report (Appendix D) Rio ASE (2018) |
| Valley Width Ratio | Valley Bottom Width/Bank Full | Valley Bottom Width/Bank Full | Derived in ESRI ArcGIS by dividing the Valley Bottom Width by the corresponding segments bankfull width (VWR = VBW/BF) |

## 3.3 WETTED WIDTH

Wetted widths were used to support just the Chinook salmon IP analyses, not steelhead (**Table 1, Table 3**). Wetted widths for SFA-impacted reaches were derived from Rio ASE (2019). Wetted widths were derived through a hydrologic analysis based on September discharge from 1929 – 2017 (Rio ASE 2019). September flow values were used because they represent low-flow conditions Chinook salmon experience during their spawning period in the study area. Wetted widths derived by Rio ASE (2019) were attributed to each SFA reach per year in ArcGIS 10.6. Wetted widths varied throughout the mine life due to mining operations (i.e., filling Hangar Flat

Lake) and stream design (enhanced and restored reaches). **Figure 2** depicts the wetted width changes in three SFA reaches (EF2.2, EF2.5, and HL2).

SFA reach EF2.2, located on the EFSFSR below the confluence of Garnet Creek, would experience minimal flow fluctuations throughout the mine life, resulting in consistent wetted widths during low-flow periods (**Figure 2**). SFA reach EF2.5 would experience significant reductions in wetted width from Year 1 to Year 11 (**Figure 2**). This reduction is attributed to the construction and use of the EFSFSR Tunnel, causing EF2.5 to be dry during that time period. EF2.2 and EF2.5 would experience a slight increase in wetted width in the initial mine years. This increase is a function of the computational methods employed to project wetted widths throughout the mine life using target geometries for these stream design enhancement reaches. The baseline wetted width of the EFSFSR through SFA reaches EF2.2 and EF2.5 are within the categorical limits for Chinook salmon IP habitat (3.6 meters to 25 meters); therefore, this slight increase does not affect the IP rating for these reaches.

SFA reach HL2 (Hangar Lake 2) is a section of Meadow Creek that is relocated to accommodate the footprint of Hangar Flats Pit Lake, but then is eventually decommissioned when Meadow Creek and the east fork of Meadow Creek are routed into Hangar Flats Pit Lake. As seen in **Figure 2**, HL2 wetted width goes to zero in mine Year 20, due to the reach being decommissioned (**Figure 2**).

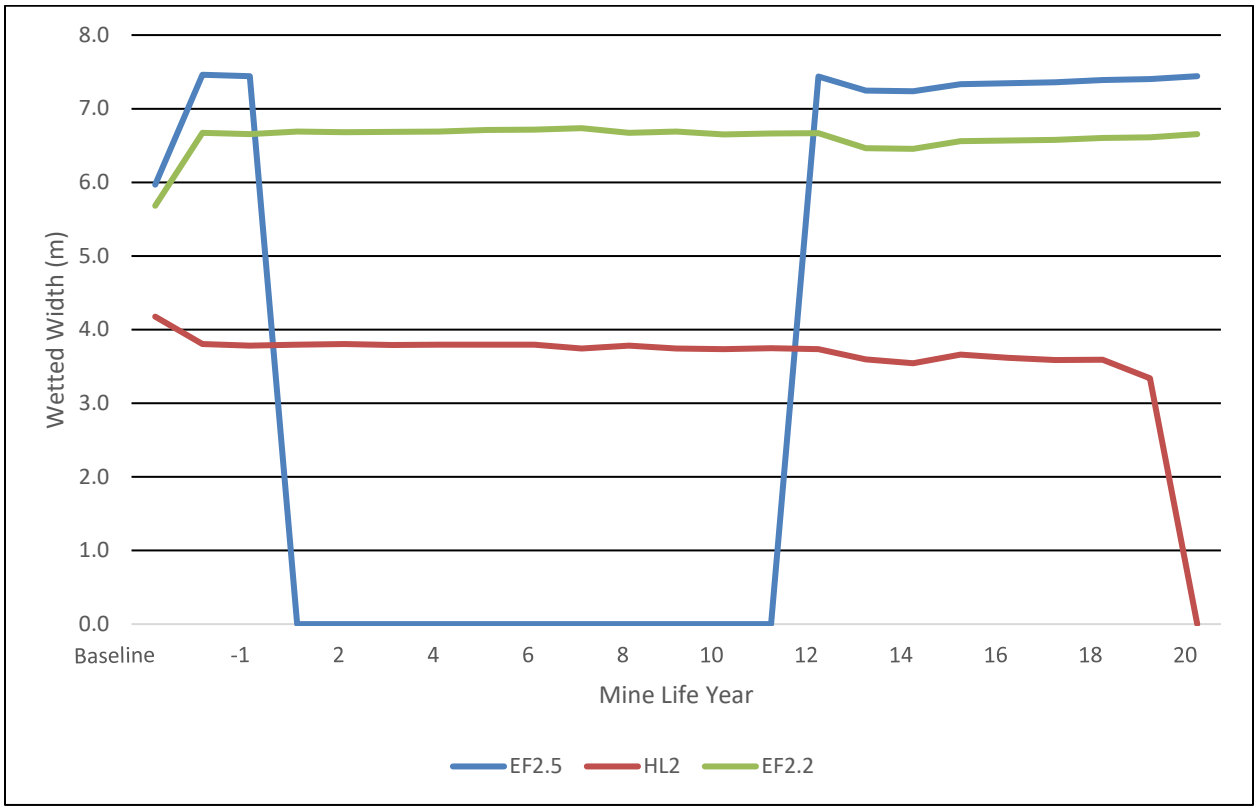



Figure Source: Rio ASE 2019

**Figure 2. Example SFA Reaches Wetted Width Changes During Mine Life Operations**

## 3.4 BANKFULL WIDTH

Bankfull width for SFA reaches are defined in Rio ASE's Stream Design Report (Rio ASE 2018). Specific stream design requirements are found in Appendix D of that report: Reach-Scale Design Summary. **Figure 3** depicts an example of the stream design criteria (calculated design estimates) (Rio ASE 2018). Bankfull width estimates are presented in feet in the Stream Design Report (Rio ASE 2018), and were converted to meters for inclusion in the Proposed Action IP model. SFA reach bankfull widths ranged from less than 2 meters to greater than 8.7 meters (Rio ASE 2018).

| Calculated Design Estimates | | | |
|---|---|---|---|
| $Q_{95}$ | $Q_{BF}$ | $Q_{100\text{-}YR}$ | Explanation |
| 0.0199 | 0.0199 | 0.0228 | = S = Existing Slope (ft/ft) |
| 3 | 111 | 313 | = Required Discharge (cfs) |
| 0.7 | 1.9 | 0.4 | = $D_{max}$ = Max Water Depth (ft) |
| 14.5 | 18.1 | 248.5 | = $W_t$ = Top Width (ft) |
| 14.57 | 14.57 | 244.00 | = $W_b$ = Bottom Width (ft) |
| 5.15 | 24.53 | 135.02 | = A = Cross-Sectional Area (ft) |
| 14.60 | 18.89 | 249.36 | = P = Wetted Perimeter (ft) |
| 0.35 | 1.30 | 0.54 | = R = Hydraulic Radius (ft) |
| 0.58 | 4.53 | 5.48 | = $V_{ch}$ = Channel Velocity (ft/s) |
| NA | NA | 1.31 | = $V_{FP}$ = Floodplain Velocity (ft/s) |

**Figure 3. Example of Stream Design Report (Rio ASE 2018, Appendix D) Bankfull Design Estimates (highlighted in red) used to Populate the Bankfull Width per SFA Reach**

## 3.5 GRADIENT

Gradients for SFA reaches are defined in Rio ASE's Stream Design Report, Appendix D: Reach-Scale Design Summary (Rio ASE 2018). **Figure 4** shows an example of the stream design criteria (calculated design estimates) with the slope estimate highlighted in red (Rio ASE 2018). Slope estimates are presented as a calculation of rise over run in the Stream Design Report. The calculated slope (rise/run) was converted to a percentage ([rise/run] *100) for inclusion in the Proposed Action IP model. Percent slope (gradient) ranges from 0.1 percent to 24 percent (24 percent is from SFA reach MC3, the steep slope draining the TSF/DRSF in Meadow Creek) (Rio ASE 2018).

| Calculated Design Estimates | | | |
|---|---|---|---|
| $Q_{95}$ | $Q_{BF}$ | $Q_{100\text{-}YR}$ | Explanation |
| 0.0199 | 0.0199 | 0.0228 | - S – Existing Slope (ft/ft) |
| 3 | 111 | 313 | - Required Discharge (cfs) |
| 0.7 | 1.9 | 0.4 | - $D_{max}$ - Max Water Depth (ft) |
| 14.5 | 18.1 | 248.5 | = $W_t$ = Top Width (ft) |
| 14.57 | 14.57 | 244.00 | = $W_b$ = Bottom Width (ft) |
| 5.15 | 24.53 | 135.02 | = A = Cross-Sectional Area (ft) |
| 14.60 | 18.89 | 249.36 | = P = Wetted Perimeter (ft) |
| 0.35 | 1.30 | 0.54 | - R – Hydraulic Radius (ft) |
| 0.58 | 4.53 | 5.48 | = $V_{ch}$ = Channel Velocity (ft/s) |
| NA | NA | 1.31 | - $V_{fp}$ - Floodplain Velocity (ft/s) |

**Figure 4. Example of Stream Design Report (Rio ASE 2018, Appendix D) Gradient (slope) Design Estimates (highlighted in red) used to Populate the Gradient Category per SFA Reach**

## 3.6 VALLEY BOTTOM WIDTH

Valley Bottom Width (VBW) for SFA reaches are defined in Rio ASE's Stream Design Report, Appendix D: Reach-Scale Design Summary (Rio ASE 2018). **Figure 5** shows an example of the stream design criteria (design guidelines/input) with the average floodplain width (VBW) estimate highlighted in red (Rio ASE 2018). VBW estimates are in feet in the Stream Design Report (Rio ASE 2018), and were converted to meters for inclusion in the Proposed Action IP model. VBW width for SFA reaches ranged from less than 5 meters to greater than 110 meters (Rio ASE 2018).

## 3.7 VALLEY WIDTH RATIO

The valley width ratio was derived in ArcGIS 10.6 by dividing each SFA reach's valley width by that same reach's bankfull width (Valley width ration = VBW/BF). Valley width ratio ranged from 1 to 22.8 for the SFA reaches.

| | Design Guidelines / Input | |
|---|---|---|
| | Input | Explanation |
| Reach Characteristics | 9.82 | = DA = Drainage Area ($mi^2$) |
| | 2057 | = $L_v$ = Valley Length (ft) |
| | 2357 | = $L_c$ = Channel Length (ft) |
| | 6533 | = $ELEV_{US}$ = Upstream Elevation (ft) |
| | 6486 | = $ELEV_{DS}$ = Downstream Elevation (ft) |
| | 1.15 | = K = Sinuousity (ft/ft) |
| | 0.0228 | = $S_v$ = Existing Valley Slope (ft/ft) |
| | 0.0199 | = $S_c$ = Existing Channel Slope (ft/ft) |
| | 244 | = $W_{FP}$ = Average Floodplain Width (ft) |

**Figure 5. Example of Stream Design Report (Rio ASE 2018, Appendix D) Floodplain Width Design Guidelines (highlighted in red) used to Populate Valley Bottom Width Category per SFA Reach**

## 3.8 GEOGRAPHIC INFORMATION SYSTEM (GIS) METHODOLOGY

The GIS methods used to derive the IP of stream segments to support spawning and early-rearing habitat for Chinook salmon and steelhead per mine life year followed a four-step process (**Figure 6**). This process was repeated for each modeled year beginning in Year -2, and ending in mine life Year 20, a total of 22 years.

The Baseline IP streamlines (Ecosystem Sciences 2019) form the foundation of the Proposed Action IP modeling. The first step in the process was to insert each mine life year's interim (e.g., diversions around the TSF/DRSF), or restored SFA reaches into the Baseline IP streamlines GIS dataset. The stream segments that are "inserted" into the IP streamlines data set replace the 30-meter segments from the Baseline IP model. In most instances, the inserted interim or restored SFA reach segments are longer than 30 meters in length. Therefore, one interim or restored reach replaces several 30-meter baseline segments. Baseline IP model stream segments that are not interim (diversions) or restored (SFA reaches) during mine activities do not change throughout the Proposed Action IP model, except for enhancement reaches. Enhancement reaches (e.g., EF1) bankfull widths and floodplain width change based on stream design criteria (and enhancement actions), but slope would not be changed (Rio ASE 2018). No channel grading would occur in enhancement reaches; therefore, the slope of enhancement reaches does not change. Non-impacted stream segments include most of the Sugar Creek drainage (excluding West End Creek) and the majority of the Upper EFSFSR above the confluence with Meadow Creek; excluding roughly the first 600 meters of the EFSFSR directly upstream of the confluence with Meadow Creek (SFA reach EF1).

The second step in the Proposed Action IP modeling procedure is to attribute (add information to the GIS data [line segments] attribute table) each mine life year's SFA altered reaches (interim, enhanced, or restored) with the IP-related categorical data (e.g., wetted width, bankfull width, slope, and valley bottom width). As mentioned above, this information is derived from Rio ASE

(2018) Stream Design Report. Interim diversions (e.g., around TSF/DRSF in Meadow Creek) were deemed non-IP habitat.

The third step in the modeling procedure is to calculate the valley width ratio for that mine life year's SFA altered reaches (interim, enhanced, or restored). This was performed in ArcGIS 10.6 using the calculate field tool.

The final step is to calculate the IP rating of each stream segment or SFA reach for supporting spawning and early habitat for Chinook salmon and steelhead. The categorical values, described by Cooney and Holzer (2006) and documented in **Table 1**, were added to each stream segment using the calculate field tool in ArcGIS 10.6.

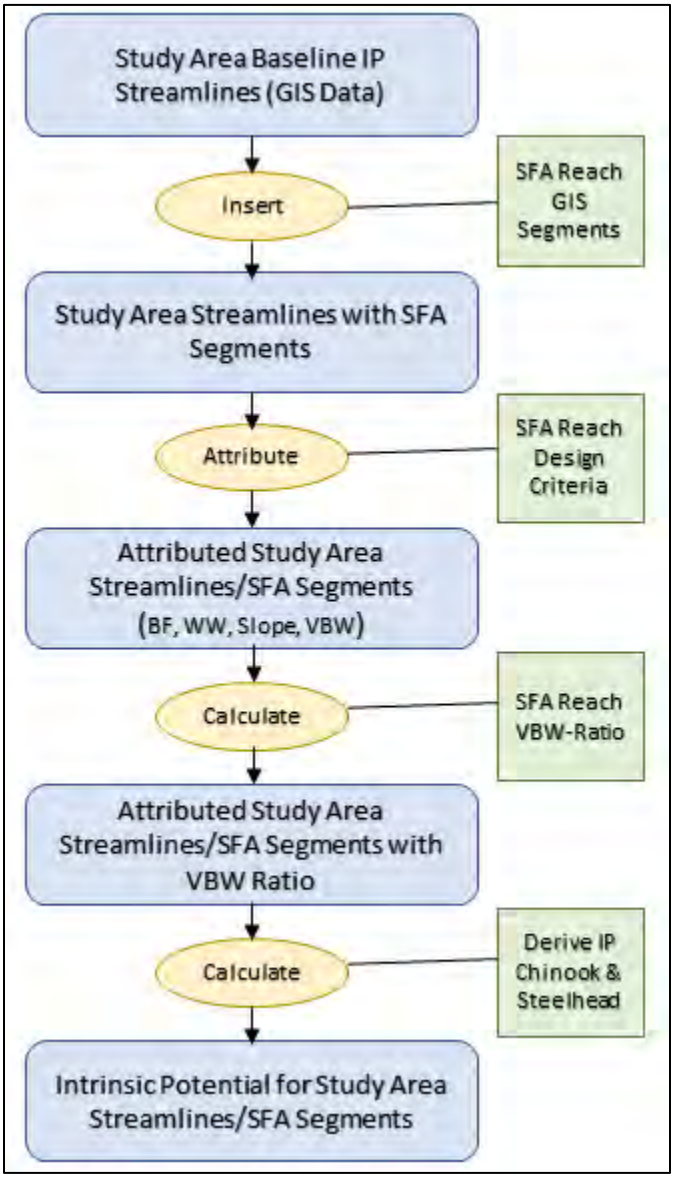



**Figure 6. GIS Methods used to Create each Mine Life Year (-2 to 20) IP Model for Chinook Salmon and Steelhead**

# 4.0 RESULTS

The following sections detail the results of the Proposed Action IP model. Results are summarized by stream segment, and include the entire study area (all stream segments); Upper EFSFSR (stream segment 5 – HUC 12 headwaters of the EFSFSR [**Figure 1**]); Sugar Creek (stream segment 6); Upper EFSFSR from its confluence with Sugar Creek upstream to the confluence with Meadow Creek (stream segment 1); Meadow Creek (stream segment 2); Upper EFSFSR above Meadow Creek confluence (stream segment 3); and Upper EFSFSR below Sugar Creek (stream segment 4). Usable habitat for Chinook salmon is defined as the sum of stream segments length (m) with intrinsic potential ratings of High, Medium, Low, and Negligible. For steelhead, usable habitat is defined as the sum of the stream segments length (m) with intrinsic potential ratings of High, Medium, and Low. Discrete results for each stream segment (Upper EFSFSR, Meadow Creek, and Upper EFSFSR above Meadow Creek) include the summation of stream reaches (m) for each intrinsic potential rating for both species. Map results for each species per mine year are presented in **Appendix A**. Selected SFA reach results are summarized below, and presented in tabular form in **Appendix C**.

## 4.1 STUDY AREA

### 4.1.1 Chinook Salmon

*Change in Habitat Quantity*

The study area (includes all stream segments) currently (existing conditions) provides 18,610 meters of usable habitat for Chinook salmon (**Figure 7**). At Year 20, or under the post-mine closure channel configuration, the study area would support 16,830 meters of usable Chinook salmon IP habitat; the proposed action would therefore result in a 9.6 percent reduction in total Chinook IP habitat from post-closure onward. There would be additional changes in available habitat during the construction, mining, and reclamation phases. Notable decreases in Chinook salmon IP habitat would occur in Year -2 (Meadow Creek diverted around TSF/DRSF); Year -1 (EFSFSR Tunnel constructed and water diversion initiated); years 13 through 15 (Hangar Lake filling); and years 19 and 20 (Hangar Lake is filled and SFA reaches HL1 and HL2 are abandoned) (**Figure 7**). Increases in usable Chinook salmon IP habitat would occur in Year -1 (restoration and enhancement in Meadow Creek [stream segment 2] and enhancement in Upper EFSFSR [stream segment 1] and Upper EFSFSR above Meadow Creek [stream segment 3]), and Year 12 (EFSFSR restoration on YPP – stream segment 1) (**Figure 8**).

Chinook salmon IP habitat in the Upper EFSFSR between Sugar Creek and Meadow Creek (stream segment 1) would decrease while the EFSFSR Tunnel is functioning (mine life years -1 to Year 11). Decommissioning of the tunnel and subsequent YPP (EFSFSR) reclamation and enhancement would result in an overall increase (18 percent) in habitat (4,035 meters at baseline, compared to 4,754 meters post-closure) (**Figure 7**).

Meadow Creek (stream segment 2) would experience a reduction in Chinook salmon IP habitat during mine life; 4,209 meters at baseline, compared to 1,710 meters post closure, a 59 percent reduction (**Figure 7**). Decreases in Chinook salmon IP habitat in stream segment 2 (Meadow Creek) occur in mine life years -2, 13, 14, and 19 (**Figure 7**). In addition, sections of Meadow Creek that qualify as IP habitat may not be accessible due to low flows below those sections. In mine years 13 and 14, areas of IP habitat in Meadow Creek are above sections that do not have IP habitat (due to low flows). Based on the analysis of minimum depths required for Chinook use,

the minimum wetted width associated with IP habitat coincides with the minimum depth used by Chinook; they may not be able to access certain sections of IP habitat.

The Upper EFSFSR above the Meadow Creek confluence (stream segment 3) would experience no change in usable Chinook salmon IP habitat during mine life (**Figure 7**). The major change in the area related to Chinook salmon is 104.6 meters of IP habitat changes from low-rated to medium due to enhancement actions. Otherwise, there is no change to the extent of Chinook salmon spawning and early-rearing habitat in stream segment 3 during mine life (**Figure 7**).

*Change in Habitat Quality*

In general, the study area consists of a mix of IP habitat conditions for Chinook salmon; approximately 8,744 meters of stream were rated as low at baseline conditions, and 9,356 meters at post-closure channel configuration (Year 20) (**Figure 8** and **Table 4**)—a 7.0 percent increase in low IP habitat for Chinook salmon in the study area. The study area supports less than 1,000 meters of high-rated IP habitat at baseline, and only 350 meters at Year 20, a 58 percent reduction (**Table 4**). Medium-rated IP habitat for Chinook salmon decreases 15 percent over the life of the mine, beginning with 7,287 meters at baseline, and ending with 6,223 meters at Year 20 (**Table 4**). Negligible Chinook salmon IP habitat decreases (48 percent) post-restoration, and enhancement of the EFSFSR (Year -1) (**Figure 8**). This decrease corresponds with an increase in low IP habitat (**Figure 8** and **Table 4**).

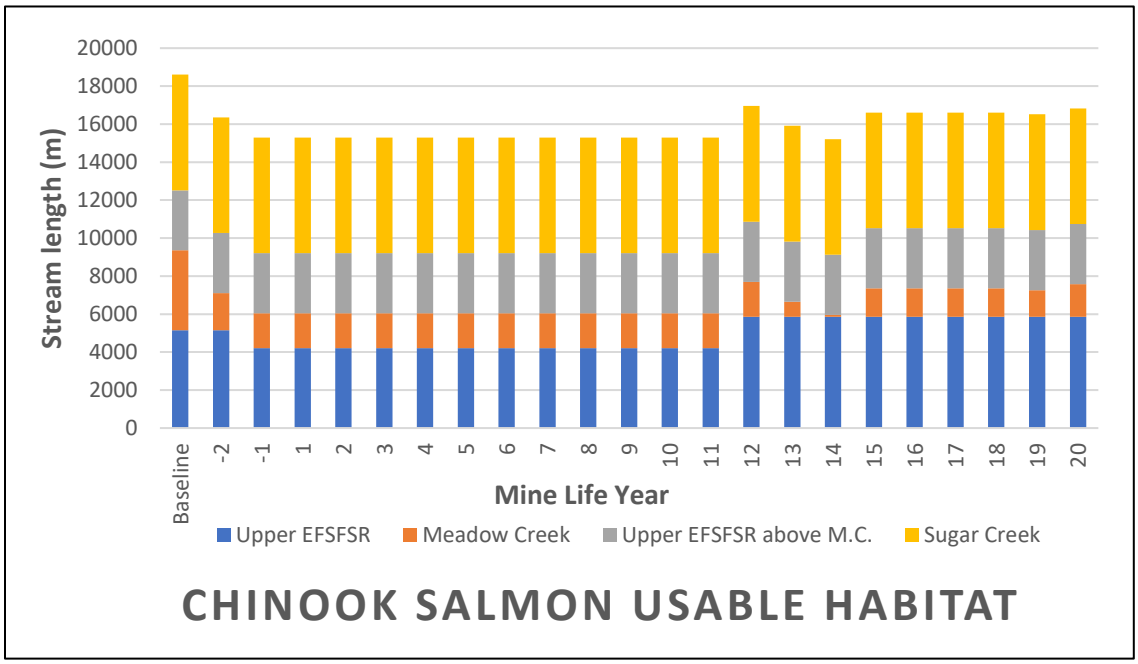



**Figure 7. Chinook Salmon Usable Habitat in the Study Area, Broken Down by Upper EFSFSR, Meadow Creek, Upper EFSFSR above Meadow Creek, and Sugar Creek for 22 Years (Year -2 to Year 20)**

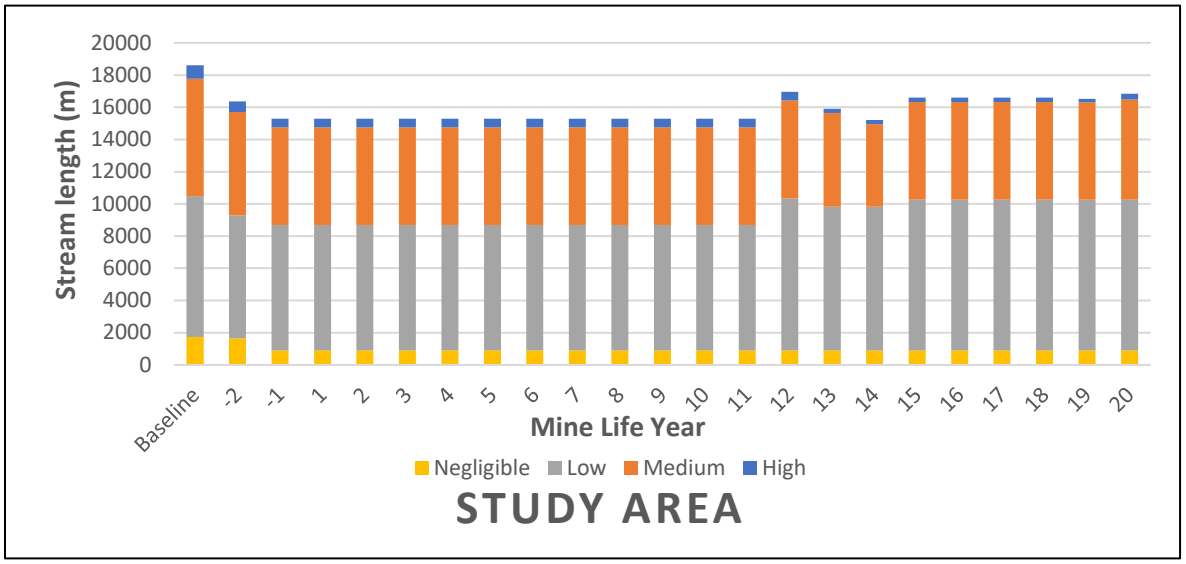



**Figure 8. Chinook Salmon Intrinsic Potential Habitat in the Study Area per IP Rating for 22 Years (Year -2 to Year 20)**

**Table 4. Chinook Salmon Meters of Stream Habitat per IP Rating and Percent Change Between Baseline and Year 20 (% Change = [Year 20 – baseline]/baseline)**

| Habitat Rating | Baseline (m) | Year 20 (m) | Loss/Gain (m) | % Change |
|---|---|---|---|---|
| High | 838.8 | 349.8 | -489.0 | -58.3 |
| Medium | 7,287.3 | 6,223.8 | -1,063.5 | -14.6 |
| Low | 8,744.3 | 9,356.3 | 612.0 | 7.0 |
| Negligible | 1,739.7 | 899.8 | -840.0 | -48.3 |
| None | 94,594.5 | 96,098.2 | 1,503.7 | 1.6 |
| Useable | 18,610.2 | 16,829.7 | -1,780.5 | -9.6 |

### 4.1.2 Steelhead

*Change in Habitat Quantity*

The study area currently provides 17,898 meters of usable habitat for steelhead (**Figure 9**). At Year 20, or post-closure channel configuration, the study area would support 19,304 meters of usable steelhead IP habitat; resulting in a 7.9 percent increase in IP habitat (**Figure 9** and **Table 5**). Decreases in steelhead IP habitat would occur in Year -2 (Meadow Creek diverted around TSF/DRSF), and years -1 through 11 (EFSFSR Tunnel) (**Figure 9**). Notable increases in usable steelhead IP habitat would occur in Year 12 (EFSFSR restoration on YPP) and Year 17 (restoration of Meadow Creek on TSF/DRSF) (**Figure 9**). However, the restored sections on top of the TSF/DRSF would not have volitional access. The amount of habitat without volitional access can be found in the Fish Passage Barrier Tech Memo.

Steelhead IP habitat in the Upper EFSFSR (stream segment 1 – Sugar Creek confluence upstream to Meadow Creek confluence) would experience a slight decrease while the EFSFSR Tunnel is functioning (mine life Year -1 to Year 11) (**Figure 9**). Decommissioning of the tunnel and subsequent Yellow Pine Pit (YPP) and EFSFSR reclamation and enhancement would result in a 56.4 percent increase over baseline conditions in useable Steelhead IP habitat (2,925 meters at baseline, compared to 4,574 meters post-closure) (**Figure 9**).

Meadow Creek (stream segment 2) would experience a slight loss in Steelhead IP habitat during mine life; 3,790 meters at baseline, compared to 3,636 meters post-closure: a 4.0 percent decrease (**Figure 9**). An initial decrease in Steelhead IP habitat in stream, segment 2 would occur in mine life Year -2, because the creek would be diverted around the TSF/DRSF. Once Meadow Creek is restored through this area (Year 17), steelhead IP habitat would return to near baseline conditions (**Figure 9**). However, as noted above, the restored sections on top of the TSF/DRSF would not have volitional access.

The Upper EFSFSR above the Meadow Creek confluence (stream segment 3) would experience a slight decrease (2,955 meters to 2,864 meters) in steelhead IP habitat during mine life (**Figure 9**). The 3.0 percent decrease is a result of stream enhancement that occurs in Year -1 (**Figure 10**).

*Change in Habitat Quality*

Existing conditions in the study area consists of a mix of IP habitat for steelhead (**Figure 10** and **Table 5**). High-rated steelhead IP habitat would increase 35.3 percent over baseline conditions; 8,043 meters at baseline compared to 10,883 meters post-closure (Year 20) (**Figure 10** and **Table 5**). At closure, over 1,500 meters of medium-rated IP habitat are available to steelhead in the study area: a 150 percent increase (**Table 5**). The converse occurs with low-rated steelhead IP habitat, because 9,254 meters are available at baseline, and 6,919 meters would be available post-closure: a 25.2 percent reduction (**Figure 10** and **Table 5**). The loss of low-rated IP habitat is attributed to stream enhancement and reclamation that would improve the steelhead IP habitat, where once low-rated areas are improved to high- or medium-rated IP habitat.

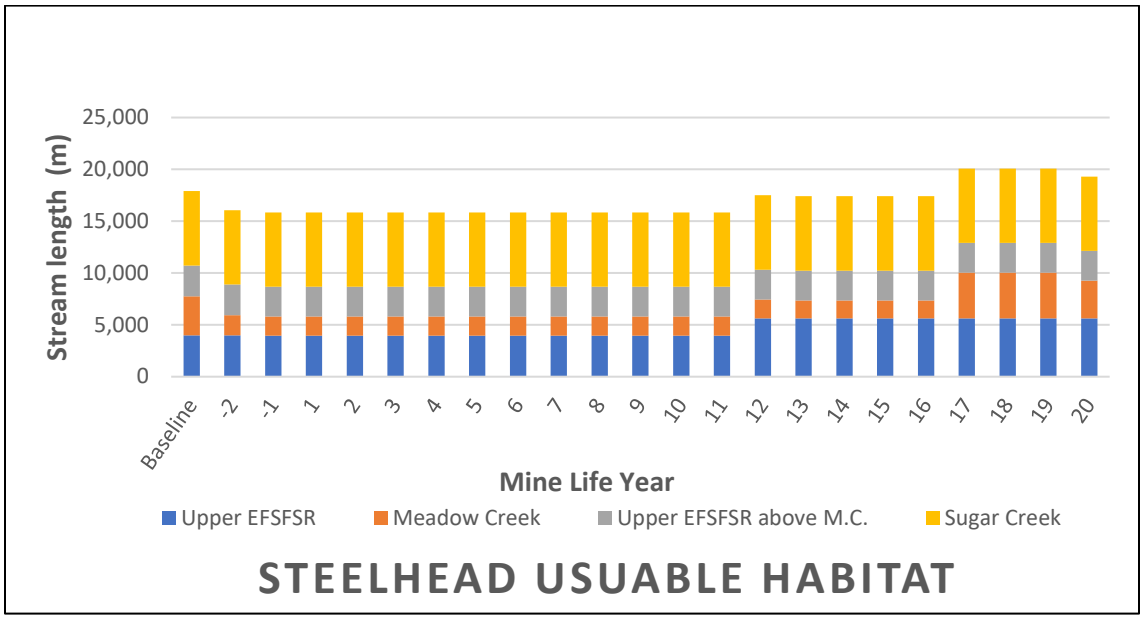



**Figure 9. Steelhead Usable Habitat in the Study Area and Broken Down for the Upper EFSFSR, Meadow Creek, Upper EFSFSR above Meadow Creek, and Sugar Creek for 22 Years (Year -2 to Year 20)**

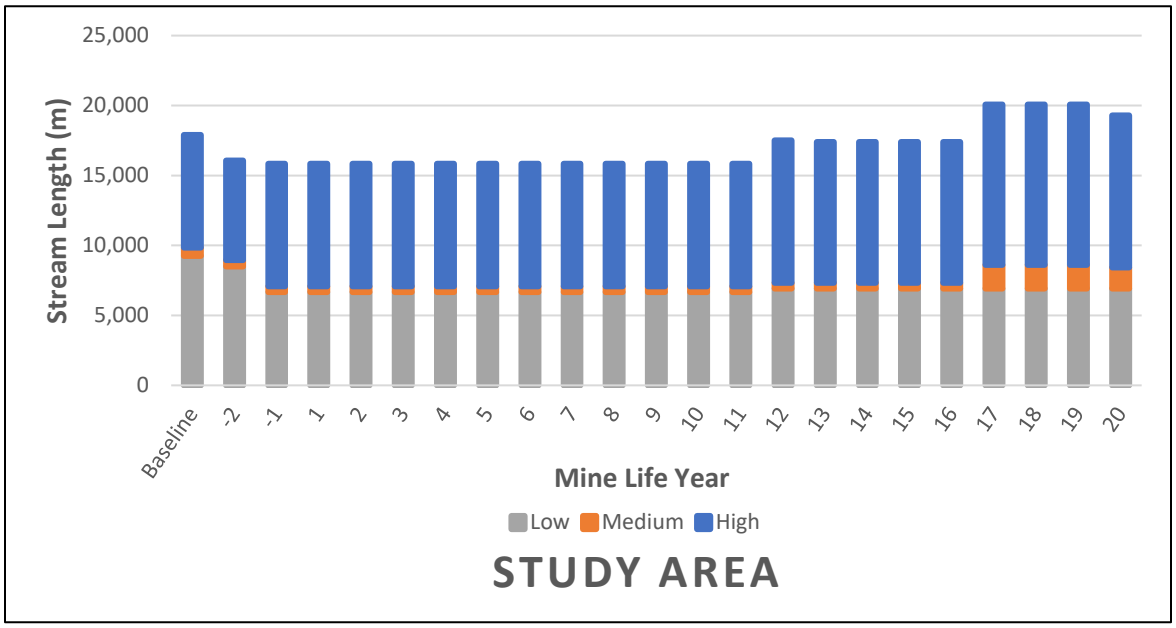



**Figure 10. Steelhead Intrinsic Potential Habitat in the Study Area and per IP Rating for 22 Years (Year -2 to Year 20)**

**Table 5. Steelhead Meters of Stream Habitat per IP Rating and Percent Change between Baseline and Year 20 (% Change = [year 20 – baseline]/baseline)**

| Habitat Rating | Baseline (m) | Year 20 (m) | Loss/Gain (m) | % Change |
|---|---|---|---|---|
| High | 8,042.5 | 10,883.2 | 2,840.8 | 35.3 |
| Medium | 601.6 | 1,501.4 | 899.9 | 149.6 |
| Low | 9,254.2 | 6,918.9 | -2,335.3 | -25.2 |
| None | 95,103.0 | 93,678.7 | -1,424.3 | -1.5 |
| Useable | 17,898.3 | 19,303.6 | 1,405.3 | 7.9 |

## 4.2 STREAM FUNCTIONAL ASSESSMENT (SFA) REACH RESULTS

Stream Functional Assessment (SFA) reaches would experience changes to Chinook salmon and steelhead IP habitat throughout the life of the mine. **Appendix B** presents the Proposed Action IP habitat results for SFA reaches in tabular form.

Alterations to IP habitat would be caused by mine activity (e.g., diversions) and flow changes (e.g., wetted width reductions from flow reductions while filling Hangar Lake). Two examples of changes to Chinook salmon and steelhead IP habitat during mine life are SFA reaches HL2 (Meadow Creek through Hangar Flats Lake) and EF2.2 (Upper EFSFSR below the Meadow Creek confluence) (**Figures 11** and **12**, respectively). HL2 would experience reclamation (Year -1); then habitat loss due to Hangar Flats Lake filling (Year 14); and then complete loss due to Hangar Flat Lake being full (Year 19) and the decommissioning of the reach. EF2.2 would be enhanced in Year -1, resulting in low IP habitat for steelhead being replaced by high IP habitat.

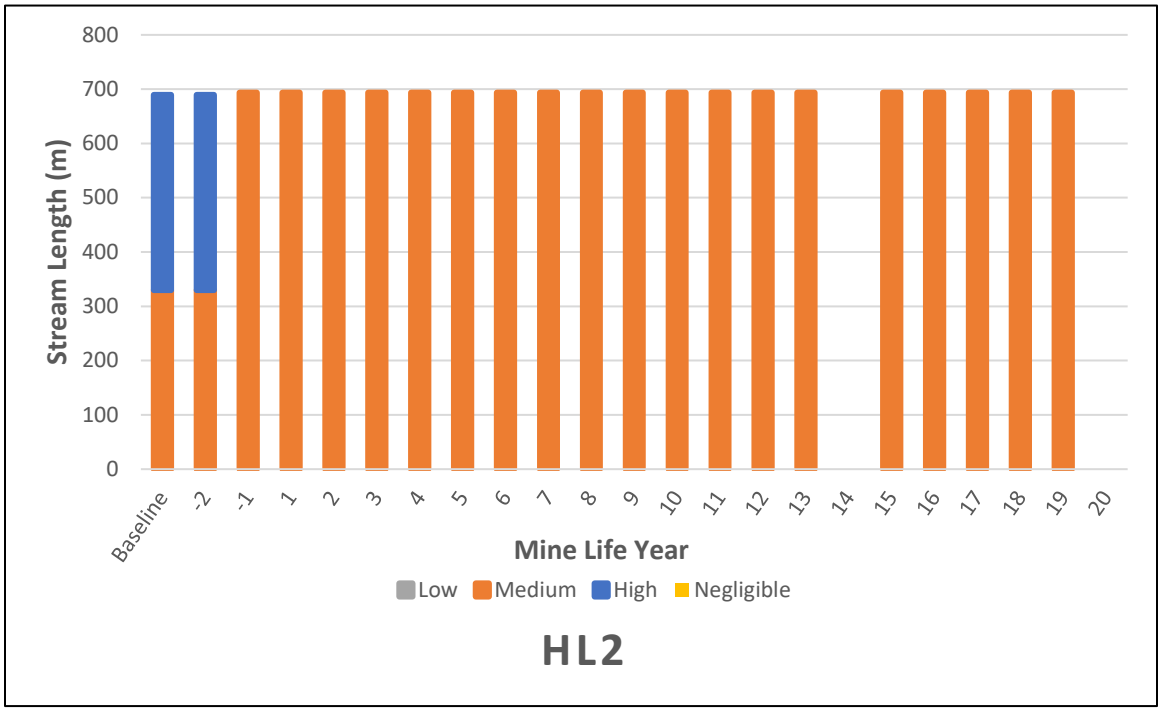



**Figure 11. SFA Reach HL2 Changes in Chinook Salmon Intrinsic Potential Habitat throughout the Mine Life (Baseline through Mine Life Year 20 – Post-closure Channel Configuration)**

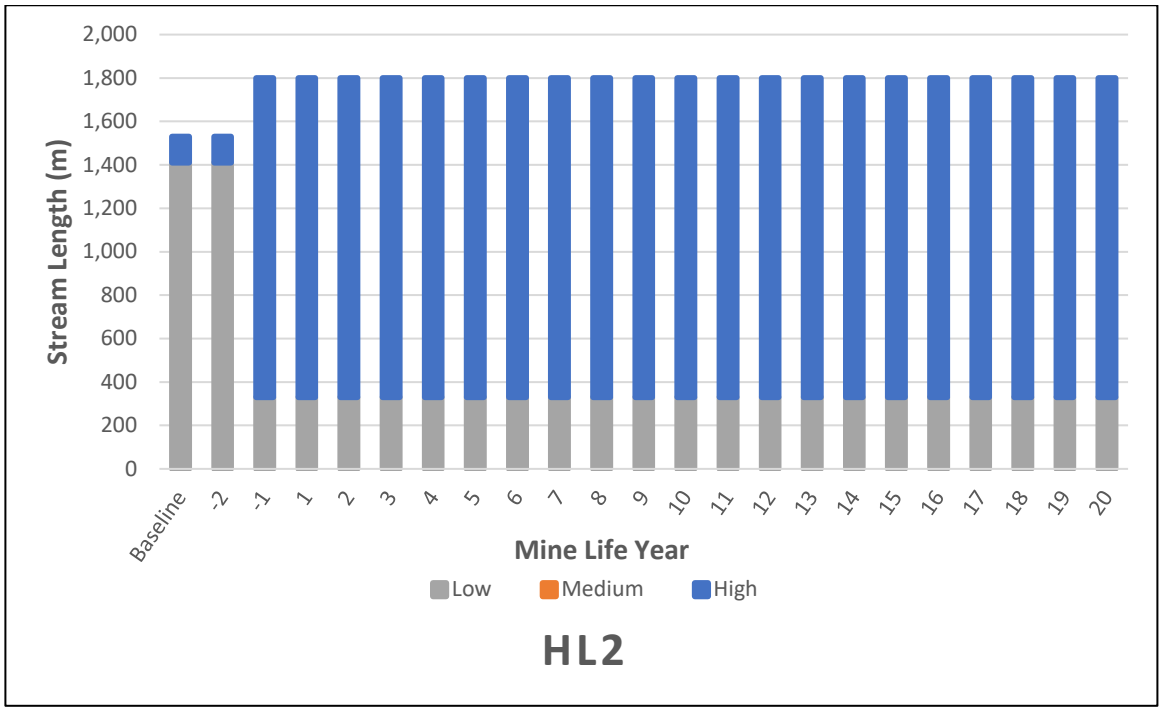



**Figure 12. SFA Reach EF2.2 Changes in Steelhead Intrinsic Potential Habitat throughout the Mine Life (Baseline through Mine Life Year 20 – Post-closure Channel Configuration)**

## 4.3 STREAM SEGMENT 5 – UPPER EFSFSR ABOVE SUGAR CREEK

### 4.3.1 Chinook Salmon

*Change in Habitat Quantity*

During the life of the mine, stream segment 5 would lose nearly 16 percent of its useable Chinook salmon habitat, a loss of 1,781 meters (**Figure 13**). Events that impact Chinook salmon IP habitat in stream segment 5 include the diversions around the DRSF/TSF (Year -2), the EFSFSR Tunnel (Year -1 through Year 12), and the filling of Hangar Flats pit lake (Years 13 through 17). The reclamation of the EFSFSR on the filled YPP would improve conditions for Chinook salmon (post-Year 12) (**Figure 13**). The same issues associated with access to some IP segments as described in Section 4.1.1 apply here.

*Change in Habitat Quality*

Low-rated stream reaches are the only IP rating that would increase in extent in stream segment 5 over the course of the mine's life. Low-rated stream reaches would increase from 5,099 meters at baseline to 5,711 meters post-closure (**Figure 13**). The 4,299 meters of existing medium-rated IP stream segments would decrease to 3,236 meters, a 25 percent reduction (**Figure 13**). High-rated Chinook salmon IP habitat in Meadow Creek would decrease nearly 490 meters during the life of the mine, a 68 percent reduction (**Figure 13**).

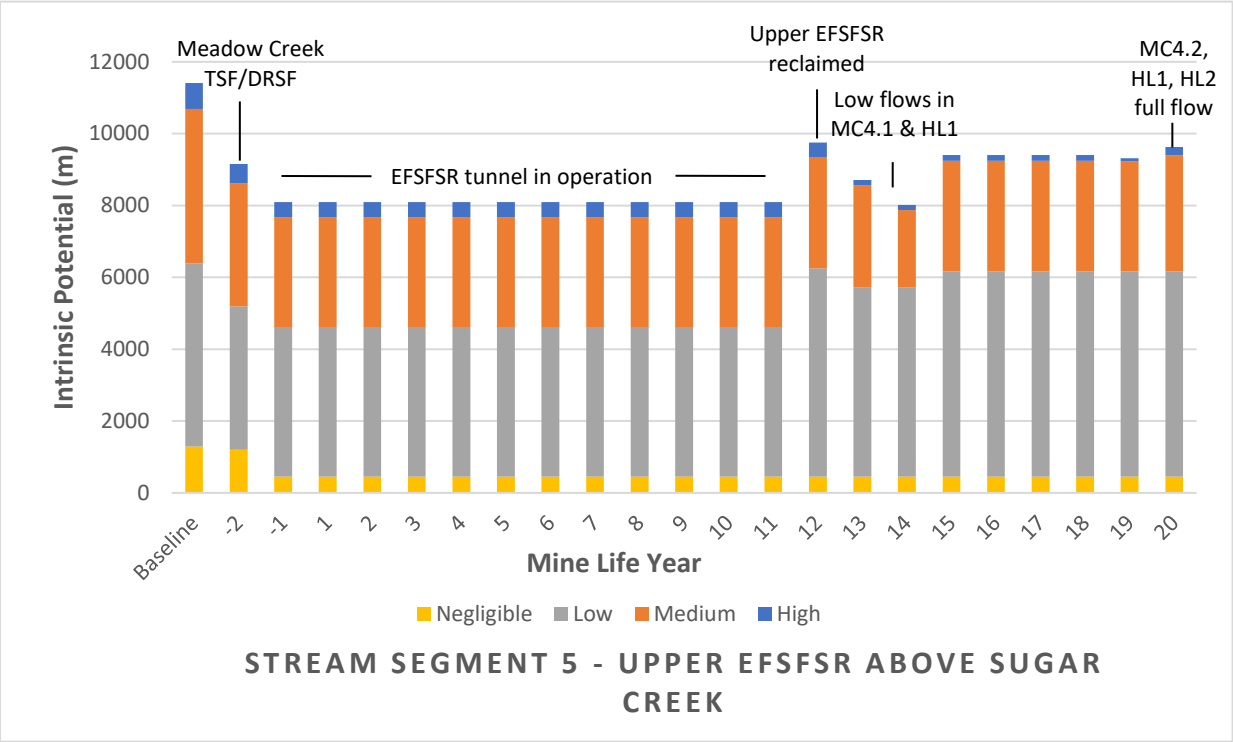



**Figure 13. Chinook Salmon Intrinsic Potential Habitat per IP Rating in Stream Segment 5 (Upper EFSFSR above Sugar Creek) for 22 Years (Mine Life Year -2 to Year 20)**

### 4.3.2 Steelhead

*Change in Habitat Quantity*

Steelhead IP habitat in stream segment 5 (Upper EFSFSR above Sugar Creek) would experience an initial decrease due to the loss of stream habitat on the DRSF/TSF (Year -2) (**Figure 14**). Steelhead habitat would remain relatively consistent in stream segment 5 from Year -2 to Year 12 (**Figure 14**). In Year 12, with the reclamation of the EFSFSR on the filled YPP, useable steelhead habitat would increase over previous years, but not over baseline conditions (**Figure 14**). By Year 20, steelhead habitat in stream segment 5 would increase 1,405 meters over baseline conditions, resulting in 14.5 percent increase in steelhead habitat. However, as noted above, the restored sections on top of the TSF/DRSF would not have volitional access.

*Change in Habitat Quality*

Low-rated stream segments would decrease from 4,529 meters at baseline to 2,194 meters at post-closure, a 63 percent reduction (**Figure 14**). The 602 meters of existing medium-rated IP stream segments would increase to 1,501 meters, a 150 percent increase (**Figure 14**). High-rated Chinook salmon IP habitat in stream segment 5 would increase nearly 2,841 meters during the life of the mine, a 63 percent increase (**Figure 14**).

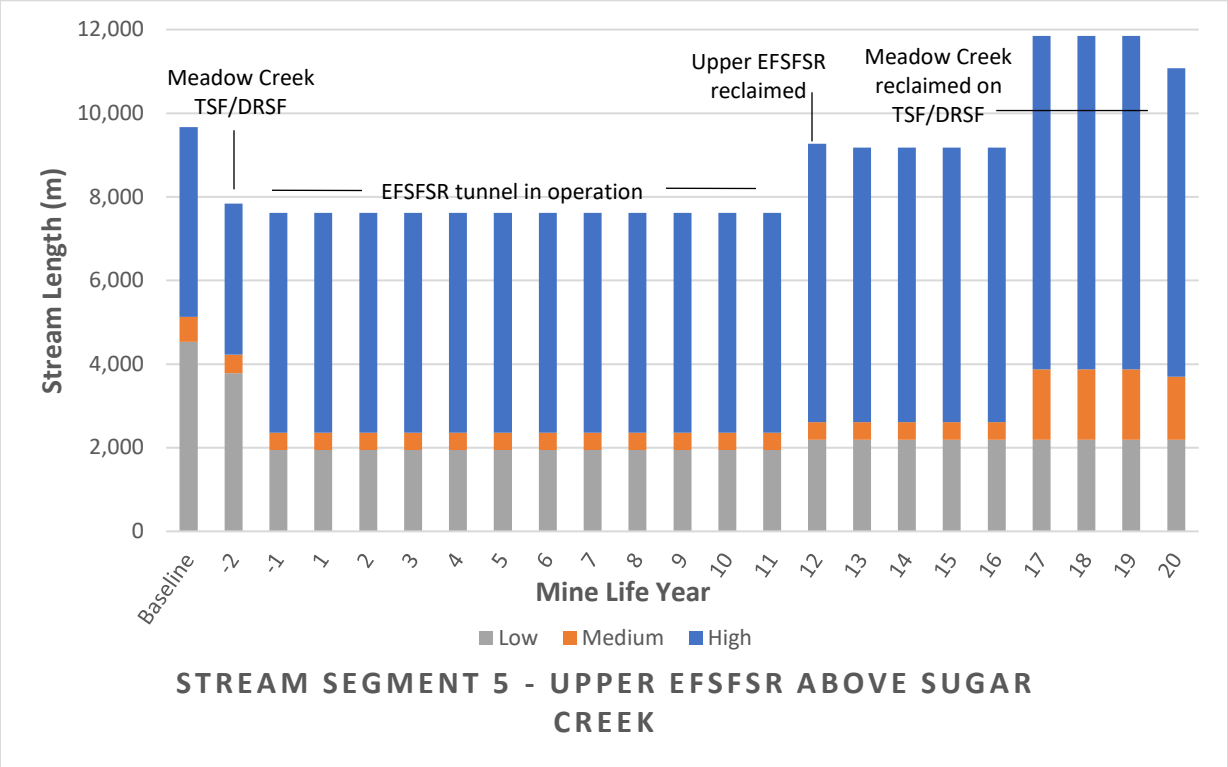



**Figure 14. Steelhead Intrinsic Potential Habitat per IP Rating in Stream Segment 5 (Upper EFSFSR above Sugar Creek) for 22 Years (Mine Life Year -2 to Year 20)**

## 4.4 STREAM SEGMENT 2 – MEADOW CREEK

### 4.4.1 Chinook Salmon

*Change in Habitat Quantity*

During the life of the mine, stream segment 2 would lose nearly 60 percent of its useable Chinook salmon habitat, a loss of nearly 2,500 meters (**Figure 15**). The key events that would impact Chinook salmon IP habitat in Meadow Creek are the diversions around the DRSF/TSF (Year -2), and the filling of Hangar Flats pit lake (Years 13 through 17). The existing conditions Negligible-rated stream segments (90 meters) would be completely removed by the TSF/DRSF (**Figure 15**). The same issues associated with access to some IP segments as described in Section 4.1.1 apply here.

*Change in Habitat Quality*

Low-rated stream reaches in stream segment 2 (Meadow Creek) would decrease from 1,438 meters at baseline to 432 meters post-closure; a 70 percent reduction (**Figure 15**). The 1,959 meters of existing medium-rated IP stream segments would decrease to 1,106 meters, a 44 percent reduction (**Figure 13**). High-rated Chinook salmon IP habitat in Meadow Creek would decrease nearly 550 meters during the life of the mine, a 76 percent reduction (**Figure 15**).

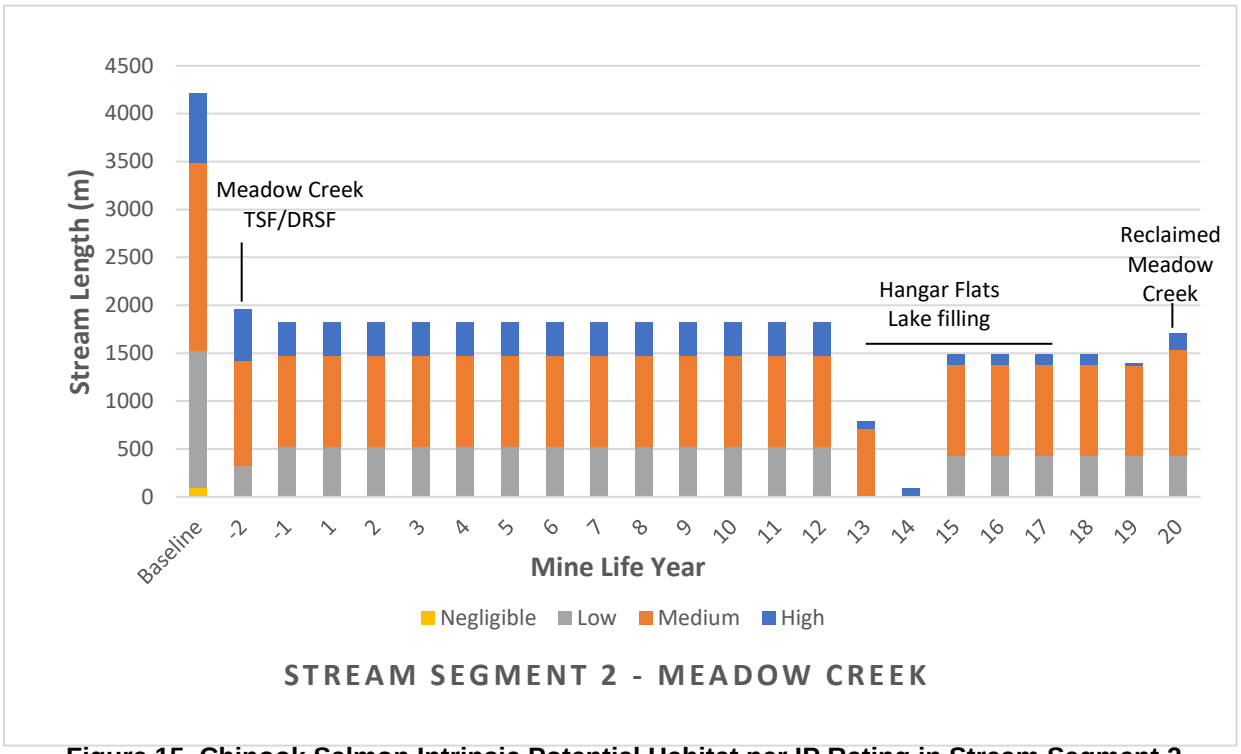



**Figure 15. Chinook Salmon Intrinsic Potential Habitat per IP Rating in Stream Segment 2 (Meadow Creek) for 22 Years (Mine Life Year -2 to Year 20)**

### 4.4.2 Steelhead

*Change in Habitat Quantity*

Steelhead IP habitat in stream segment 2 would experience an initial decrease due to the loss of stream habitat on the DRSF/TSF (Year -2) (**Figure 16**). Steelhead habitat would remain relatively consistent in Meadow Creek from Year -2 to Year 16 (**Figure 16**). In Year 17, with the re-creation of Meadow Creek on the DRSF/TSF, useable steelhead habitat would increase by over 600 meters in stream segment 2 above baseline conditions, a 16 percent increase. By Year 20, steelhead habitat in Meadow Creek would decrease over 150 meters compared to baseline conditions, resulting in 4 percent loss of steelhead habitat. The final overall loss would be attributable to the complete loss of SFA reaches HL1 and HL2, which would be de-commissioned when Meadow Creek and the East Fork of Meadow Creek are routed into Hangar Flats Pit Lake.

*Change in Habitat Quality*

Low-rated stream segments would decrease from 929 meters at baseline to 90 meters post-closure, a 90 percent reduction (**Figure 16**). The 602 meters of existing medium-rated IP stream segments would increase to 1,441 meters, a 140 percent increase (**Figure 16**). High-rated Chinook salmon IP habitat in Meadow Creek would decrease nearly 154 meters during the life of the mine, a 6.8 percent reduction (**Figure 16**).

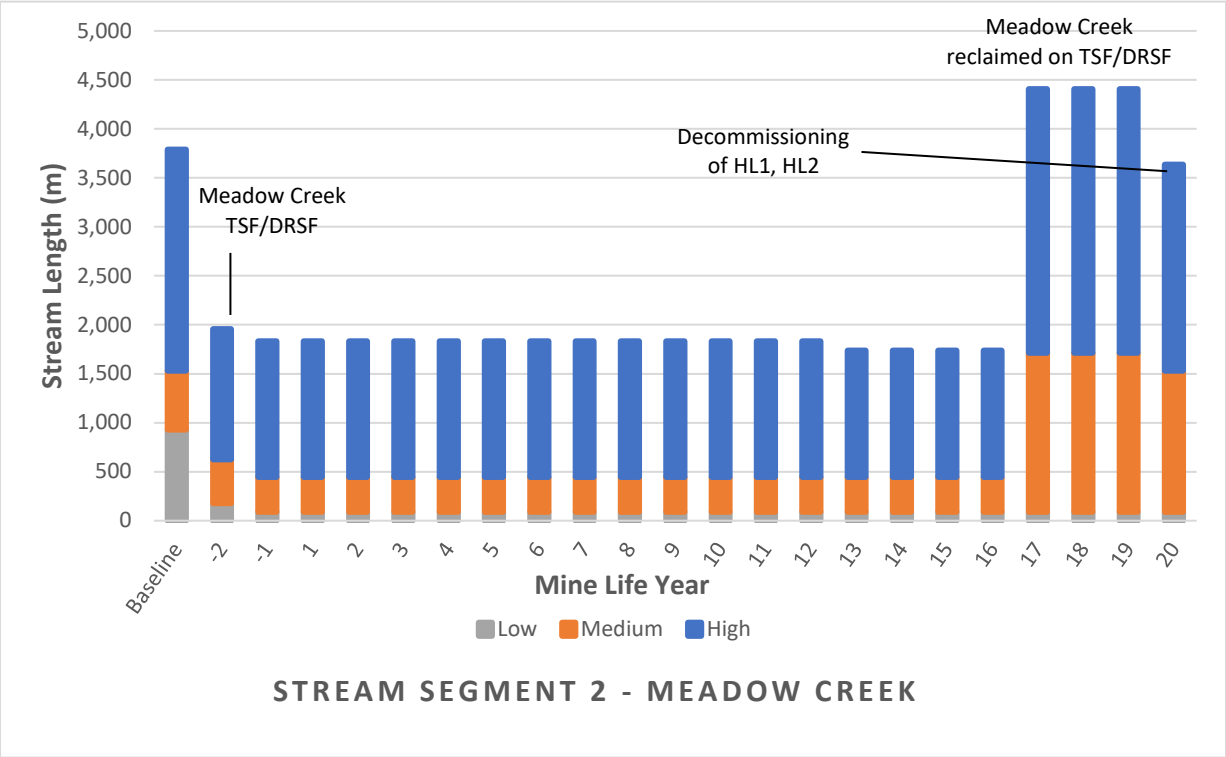



**Figure 16. Steelhead Intrinsic Potential Habitat per IP Rating within Stream Segment 2 (Meadow Creek) for 22 Years (Year -2 to Year 20)**

## 4.5 STREAM SEGMENT 1 – UPPER EFSFSR ABOVE SUGAR CREEK AND BELOW MEADOW CREEK

### 4.5.1 Chinook Salmon

Stream segment 1 would experience changes in the quantity and quality of Chinook salmon spawning and early-rearing habitat during the life of the mine (**Figure 15**).

*Change in Habitat Quantity*

Overall, useable Chinook salmon IP habitat would increase 18 percent in stream segment 1, the Upper EFSFSR above Sugar Creek and below Meadow Creek, an increase of 700 meters of spawning and early-rearing habitat (**Figure 17**). The changes are associated with the installation of the tunnel (Year -1) and the reclamation of the UEFSFSR on top of the former YPP site (Year 12).

*Change in Habitat Quality*

The existing 870 meters of negligible-rated IP habitat would be reduced to 120 meters at the post-closure channel configuration, an 86 percent reduction (**Figure 17**). The extent of low-rated IP habitat, which is currently the most abundant Chinook salmon IP habitat in stream segment 1, would increase from 2,520 meters to 4,035 meters post-closure, a 60 percent increase (**Figure 17**). High-rated IP habitat would increase from 0 to 60 meters, while medium-rated

Chinook salmon IP habitat would decrease from 645 meters at baseline to 539 meters post-closure (**Figure 17**).

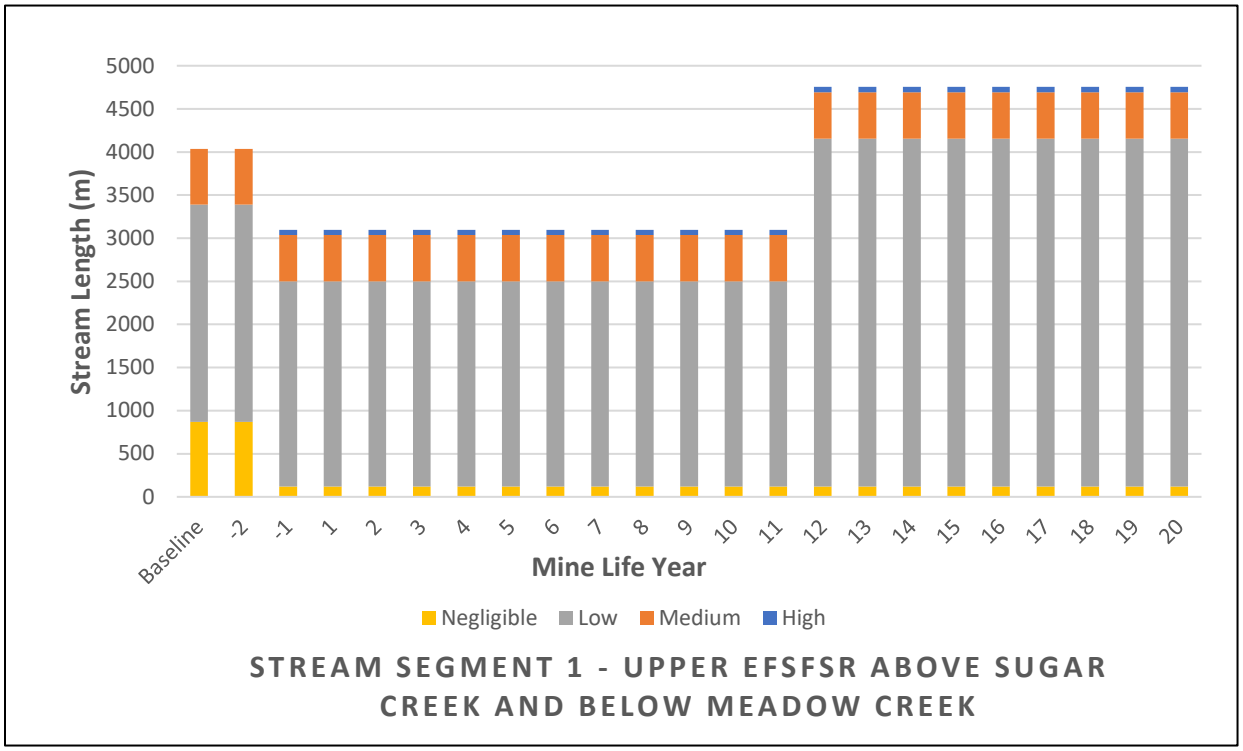



**Figure 17. Chinook salmon Intrinsic Potential habitat per IP rating in stream segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) for 22 years (Year -2 to Year 20).**

### 4.5.2 Steelhead

The quantity and quality of steelhead habitat in stream segment 1, the Upper EFSFSR upstream of the confluence with Sugar Creek and downstream of Meadow Creek, would change during mining activities (**Figure 18**). The changes are associated with those described in Section 4.5.1.

*Change in Habitat Quantity*

Overall, stream enhancement and recreation of the Upper EFSFSR would equate to a 56 percent increase in usable steelhead habitat, an increase of approximately 1,650 meters over baseline conditions in the Upper EFSFSR above Sugar Creek and below Meadow Creek (**Figure 18**).

*Change in Habitat Quality*

Following enhancement (Year -1) and re-creation (Year 12) of the Upper EFSFSR in stream segment 1, high-rated IP habitat would increase nearly 3,000 meters during the mine's life (**Figure 18**). Medium-rated IP habitat would increase 60 meters (**Figure 16**). Low-rated IP habitat for steelhead would be reduced by over 1,400 meters, a 57 percent reduction (**Figure 18**). The significant loss of low-rated habitat is offset by the gains in high-rated habitat (**Figure 18**).

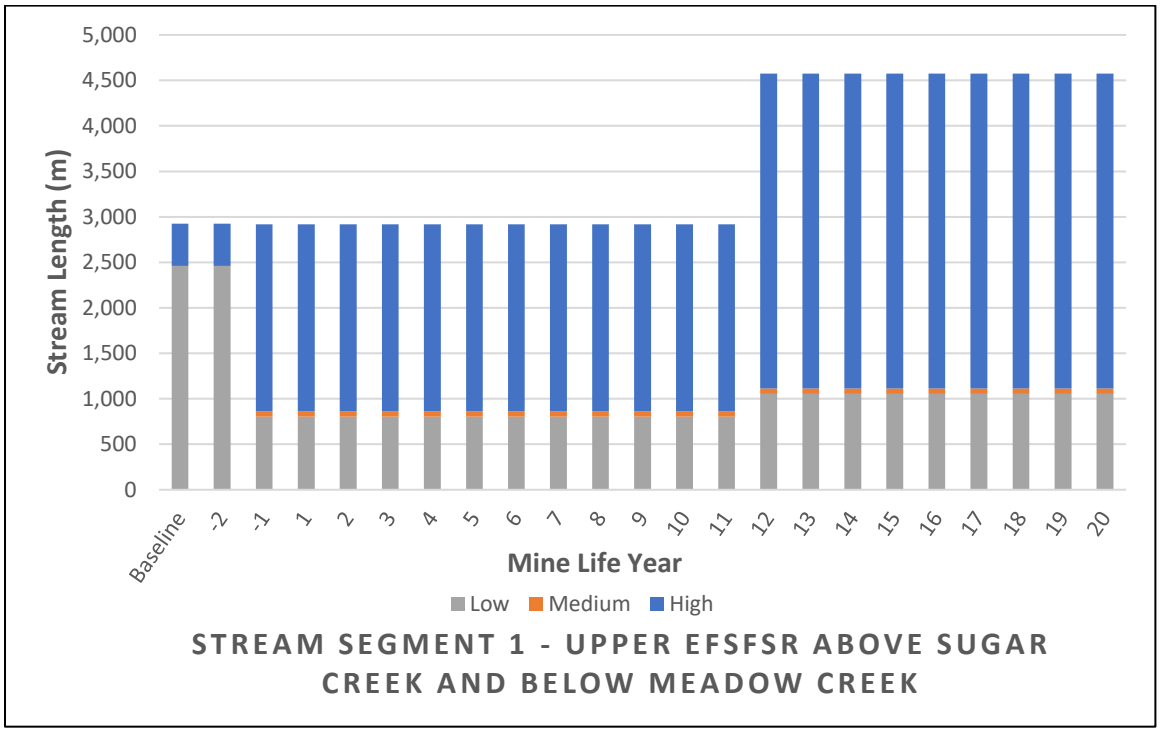



**Figure 18. Steelhead Intrinsic Potential Habitat per IP Rating in Stream Segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) for 22 Years (Year -2 to Year 20)**

## 4.6 STREAM SEGMENT 3 – UPPER EFSFSR ABOVE MEADOW CREEK CONFLUENCE

Mine activities would not affect stream segment 3 (Upper EFSFSR above Meadow Creek) as much as other analysis areas. The only event that would affect IP habitat for the two species in the Upper EFSFSR above Meadow Creek is the enhancement of SFA reach EF1. EF1 is a 570-meter reach extending upstream from the confluence with Meadow Creek. Enhancement would not change the slope of the 30 segments in the reach, so changes to IP habitat for both species would be minimal (**Figure 19** and **Figure 20**).

### 4.6.1 Chinook Salmon

There would be no change in the extent of usable habitat for Chinook salmon, only a change in habitat classification from Medium-rated to Low. The change would occur in Year -1 during enhancement; and would result in 105 meters of medium-rated habitat changing to low-rated habitat (**Figure 19**). This change would remain in Year 20.

### 4.6.2 Steelhead

Steelhead IP habitat in the Upper EFSFSR above Meadow Creek would experience a slight decrease in quantity, because 90 meters of low-rated habitat would be changed to "none" in Year -1 (**Figure 10**). This loss of low-rated IP habitat would result in a 4.0 percent decrease in useable steelhead IP habitat in the Upper EFSFSR above Meadow Creek (**Figure 10**).

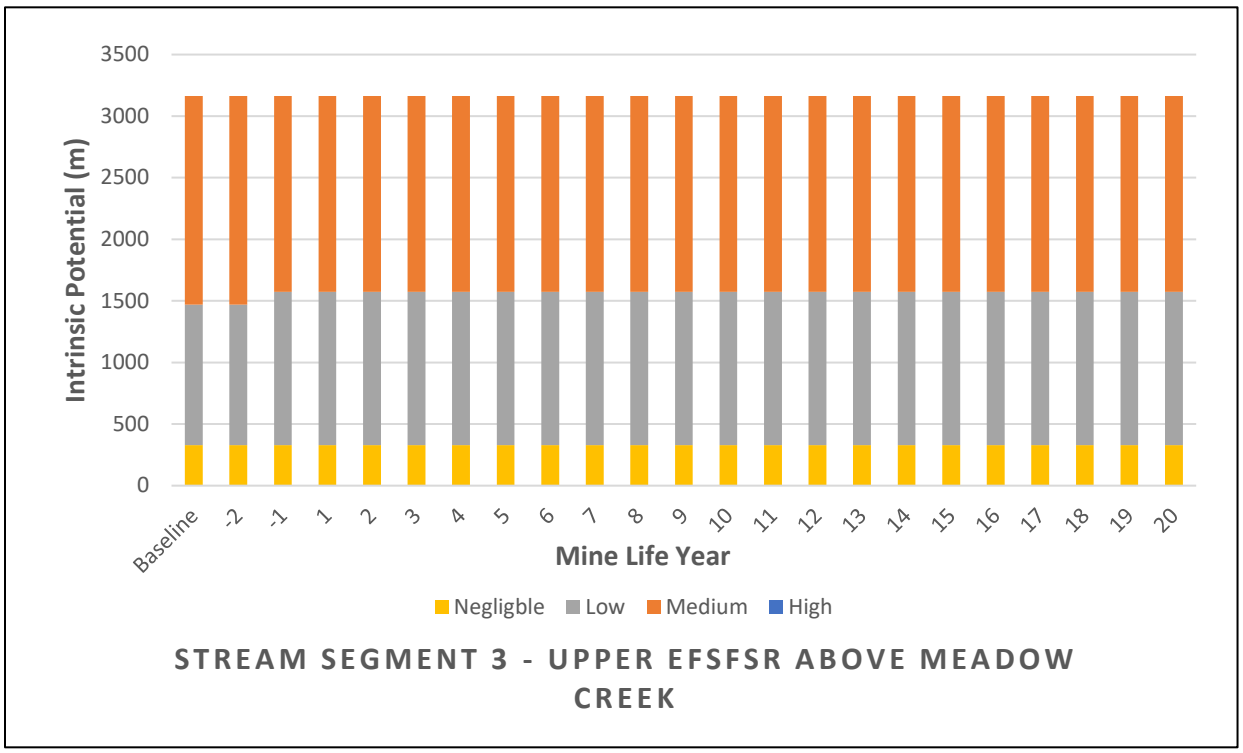



**Figure 19. Chinook Salmon Intrinsic Potential Habitat per IP Rating in Stream Segment 3 (Upper EFSFSR above the Meadow Creek Confluence) for 22 Years (Year -2 to Year 20)**

The cause of these small changes in IP habitat for the two species in stream segment 3 is the enhancement design's average bankfull width for SFA reach EF1 (Rio ASE 2018). The enhancement design for SFA Reach EF1 has an average bankfull width of 5.3 meters (Rio ASE 2018), which is roughly 0.3 meter more than the baseline bankfull width (Ecosystem Sciences 2019). Applying this bankfull measure changes the Valley Width Ratio to below 4 (**Table 1**) for several of the enhanced 30-meter segments of EF1, causing changes in the IP habitat classifications for the two species.

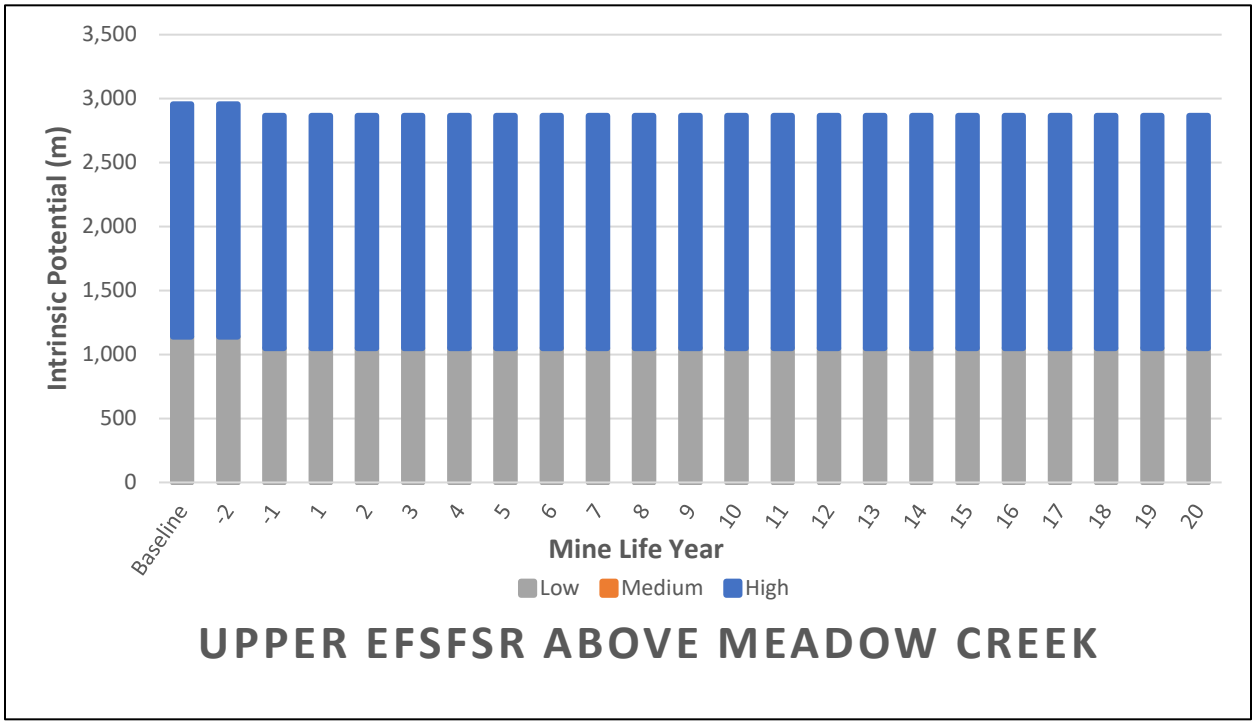



**Figure 20. Steelhead Intrinsic Potential Habitat per IP Rating in Segment 3 (Upper EFSFSR above the Meadow Creek Confluence) for 22 Years (Year -2 to Year 20)**

## 4.7 STREAM SEGMENT 4 – UPPER EFSFSR DOWNSTREAM OF SUGAR CREEK

Stream segment 4 includes the modeled portion of the EFSFSR downstream of its confluence with Sugar Creek. Stream segment 4 includes only 1,110 meters of the EFSFSR. Stream segment 4 is not impacted by mine activities; therefore, the baseline IP habitat for the two species remains the same throughout the mine life.

### 4.7.1 Chinook Salmon

Stream segment 4 harbors 1,110 meters of usable Chinook salmon spawning and early-rearing habitat. The Upper EFSFSR downstream of Sugar Creek supports 30 meters of medium-rated, 1,020 meters of low-rated, and 60 meters of negligible Chinook salmon IP habitat. These quantities of Chinook IP habitat persist throughout the mine life.

### 4.7.2 Steelhead

Stream segment 4 includes 1,050 meters of usable steelhead spawning and early-rearing habitat. The Upper EFSFSR downstream of Sugar Creek supports 30 meters of high-rated and 1,020 meters of low-rated steelhead IP habitat. These quantities of steelhead IP habitat persist throughout the mine life.

# 5.0 DISCUSSION

Throughout the life of the mine, alterations to stream channel configuration and flow volumes (i.e., filling pit lakes) in streams would occur as a result of mining activities (**Table 2**). Year -2 is the first year that mine activities would occur under the proposed action. Year 20 equates to the mine's post-closure channel configuration. Post-closure, all enhancement and restoration activities would be complete, and the stream courses would be in their final configuration. Concurrent with mine activities, enhancement and reclamation activities would occur in stream reaches throughout the study area that would improve Chinook salmon and steelhead IP habitat. The concurrent nature of mining activity and stream enhancement/reclamation would make the habitat changes throughout the mine life happen in a non-linear way (i.e., one segment in the study area would experience a degradation of IP habitat; while at the same time, other areas would experience an improvement to IP habitat through enhancement or reclamation).

IP habitat for the two species is limited to the main trunk streams of the study area: Meadow Creek from roughly 1 kilometer above the Spent Ore Disposal Area (SODA) to the confluence with EFSFSR; and the EFSFSR from its confluence with Fern Creek downstream to the confluence with Sugar Creek (**Figure 1**). Sugar Creek contains Chinook salmon and steelhead IP habitat, but would not be affected by mine activities (no SFA reaches on Sugar Creek); therefore, its IP habitat would not change throughout the life of the mine.

Key Mine activities that alter stream habitat would occur in the following years:

- Year -2: Meadow Creek diverted around TSF/DRSF;
- Year -1: EFSFSR Tunnel completed and water diversion initiated, stream enhancement and restoration in EFSFSR [stream segments 1 and 3] and Meadow Creek [stream segment 2];
- Year 12: EFSFSR Tunnel [stream segment 1] decommissioning and flow initiated in restored reaches;
- Year 13: all flow diverted back into stream reaches that were dewatered by EFSFSR Tunnel [stream segment 1]; Hangar Flats Lake [stream segment 2] begins to fill;
- Year 17: Meadow Creek [stream segment 2] constructed [restored on TSF/DRSF];
- Year 18: all flow diverted into Meadow Creek [stream segment 2] on TSF/DRSF;
- Years 13 through 19: Hangar Lake fills from Year 13 through Year 19, resulting in flow volume reductions (e.g., reduced wetted width) for Meadow Creek (Rio ASE 2019). Flow volume changes impact Chinook salmon IP habitat, because reduced flow volumes would equate to reduced wetted widths, a significant variable in the derivation of IP habitat rating for the species; and
- Year 19: Hangar Lake is full, and SFA reaches HL1 and HL2 are de-commissioned [stream segment 2].

## 5.1 STUDY AREA

### 5.1.1 Chinook Salmon

The quantity of Chinook salmon usable IP habitat would vary throughout the life of the mine. Compared to baseline conditions, IP habitat for Chinook salmon would be reduced by 9.6 percent at the proposed action's post-closure channel configuration (Year 20) (**Figure 21**), equating to a loss of 1,781 meters of habitat. In mine life Year -1 through Year 11, there would be a reduction

in Chinook salmon IP habitat of 17.8 percent (**Figure 21**). This timeframe includes the EFSFSR Tunnel diversion (stream segment 1); enhancement activities in the EFSFSR (stream segments 1 and 3) and Meadow Creek (stream segment 2); and the reclamation of Meadow Creek near Hangar Flats (stream segment 2). In Year 12, following the initiation of flow into the reclaimed channel on the filled YPP, the reduction in Chinook salmon usable IP habitat, compared to baseline conditions, is roughly 9 percent (**Figure 19**).

In Year 13, reductions in Chinook salmon usable IP habitat would begin to increase as Hangar Flats Lake begins to fill, and less water is dedicated to instream flow.

By Year 14, Chinook salmon spawning and early-rearing habitat in the study area would experience an 18.3 percent loss compared to baseline conditions (**Figure 21**). This loss would be attributed to flow volume decreases in Meadow Creek (stream segment 2) as Hangar Flats Lake fills, which would result in wetted width changes that impact the categorical IP habitat ratings (Rio ASE 2019).

In Years 15 through 18, there would be a less than 10.6 percent reduction in usable Chinook salmon IP habitat in the study area, attributable to reduced flows to Hangar Flats Lake and more flow dedicated to Meadow Creek SFA reaches HL1 and HL2 (Rio ASE 2019).

In Year 20, when Hangar Flats Lake is full, SFA reaches HL1 and HL2 are decommissioned, resulting in these reaches experiencing a complete loss of Chinook salmon IP habitat. The loss of these two reaches would result in a 9.6 percent reduction in Chinook salmon IP habitat in the study area, compared to baseline conditions (**Figure 21**).

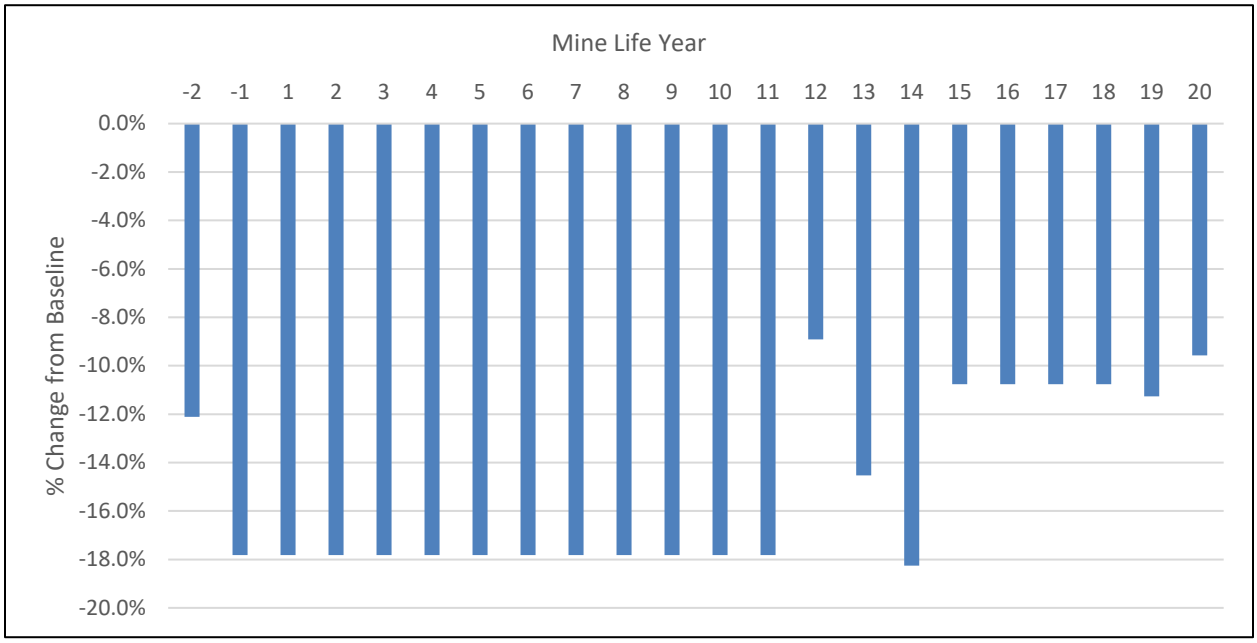



**Figure 21. Percent Change in Usable Chinook Salmon Spawning and Early-rearing Habitat per Mine Life Year Compared to Baseline Conditions**

### 5.1.2 Steelhead

The quantity of available steelhead usable IP habitat would vary throughout the life of the mine. Unlike Chinook salmon, the amount of steelhead IP habitat would increase 7.9 percent at the post-closure channel configuration compared to baseline conditions (**Figure 22**), with an increase

of 1,405 meters of steelhead IP habitat (although some of that IP habitat would not have volitional access). During mine Years -1 through 11, there would be an 11 percent decrease in usable habitat. This timeframe includes the EFSFSR Tunnel diversion (loss of IP habitat); the enhancement to the EFSFSR and Meadow Creek (improved habitat); and the reclamation of Meadow Creek near Hangar Flats (improved habitat).

In Years 12 through 16, there would be varying (2.7 percent to 2.8 percent) decreases over baseline conditions in steelhead IP habitat following the initiation of flow into the restored channels on the reclaimed YPP (**Figure 22**).

In Years 17 through 19 there would be maximum steelhead IP habitat gains, compared to baseline conditions, following the construction of Meadow Creek on the TSF/DRSF and initiation of flows into the new channels (although these would not have volitional access). In these years steelhead IP habitat increases 12 percent over baseline conditions. (**Figure 22**).

In mine Year 20 when Hangar Flats Pit Lake is full, SFA reaches HL1 and HL2 are decommissioned, resulting in a total loss of steelhead IP habitat through these reaches. The loss of these two reaches decreases usable habitat from gains over baseline conditions between Year 19 and Year 20; resulting in the final net increase of 7.9 percent in steelhead IP habitat (**Figure 22**). The final net increase of 7.9 percent would expand the extent of usable steelhead IP by 1,405 meters over baseline conditions.

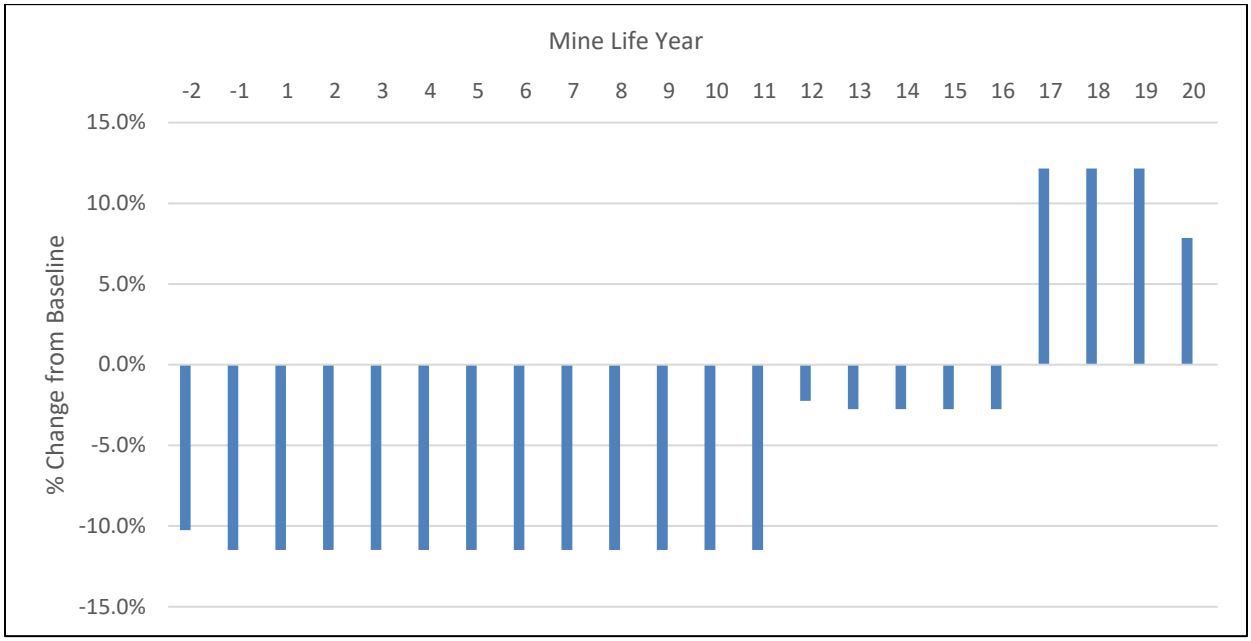



**Figure 22. Percent Change in Usable Steelhead Spawning and Early-rearing Habitat per Mine Life Year Compared to Baseline Conditions**

## 5.2 UPPER EFSFSR ABOVE SUGAR CREEK (STREAM SEGMENT 5)

Stream segment 5 (Upper EFSFSR above Sugar Creek), which includes stream segments 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek), 2 (Meadow Creek), and 3 (Upper EFSFSR above Meadow Creek), harbors the majority of mining and reclamation activity in the study area (only West End Creek is outside of stream segment 5). Therefore, this area reflects the impacts that mining and reclamation activities have on spawning and early-rearing for the Chinook salmon and steelhead.

### 5.2.1 Chinook Salmon

In stream segment 5, the quantity of Chinook salmon usable IP habitat would vary throughout the life of the mine. Compared to baseline conditions, IP habitat for Chinook salmon, in stream segment 5 would be reduced by 15.6 percent at post-closure channel configuration (Year 20) (**Figure 23**), equating to a loss of 1,781 meters of habitat. In mine Year -1 through Year 11, there would be a reduction in Chinook salmon IP habitat of 29.1 percent (**Figure 23**). This timeframe includes the EFSFSR Tunnel diversion (stream segment 1); enhancement activities in the EFSFSR (stream segments 1 and 3) and Meadow Creek (stream segment 2); and the reclamation of Meadow Creek near Hangar Flats (stream segment 2). In mine Year 12, following the initiation of flow into the reclaimed channel on the filled YPP, the reduction in Chinook salmon usable IP habitat, compared to baseline conditions, is roughly 14.5 percent (**Figure 23**).

In Years 13 through 19, reductions in Chinook salmon usable IP habitat fluctuate, based on dedicating flow to filling Hangar Flats Lake, which begins to fill; and less water is dedicated to instream flow (**Figure 23**). As noted, several times in this document, access may be limited to certain segments of Meadow Creek due to low flows below those reaches.

In mine Year 20, when Hangar Flats Lake is full, SFA reaches HL1 and HL2 are decommissioned, resulting in these reaches experiencing a complete loss of Chinook salmon IP habitat. The loss of these two reaches would result in the final 15.6 percent reduction in Chinook salmon IP habitat in the study area compared to baseline conditions (**Figure 23**).

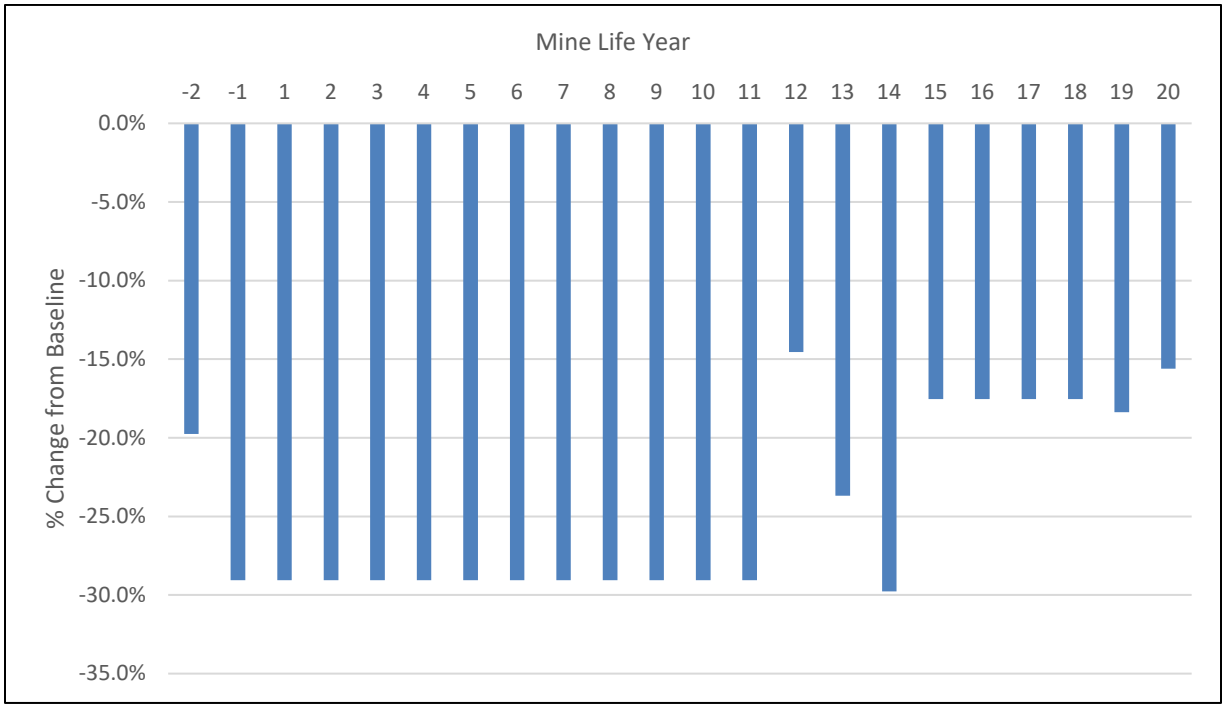



**Figure 23. Percent Change in Usable Chinook Salmon IP Habitat in Stream Segment 5 (Upper EFSFSR above Sugar Creek)**

### 5.2.2 Steelhead

The quantity of available steelhead usable IP habitat in stream segment 5 would vary throughout the life of the mine. The amount of steelhead IP habitat would increase 14.5 percent post-closure for the channel configuration compared to baseline conditions (**Figure 24**), with an increase of

1,405m of steelhead IP habitat. During mine years negative 1 through 11 there would be a 21.3 percent decrease in usable habitat (**Figure 24**). This timeframe includes the EFSFSR Tunnel diversion (loss of IP habitat), the enhancement to the EFSFSR and Meadow Creek (improved habitat), and the reclamation of Meadow Creek near Hangar Flats (improved habitat).

In mine years 12 through 16, there would be varying (4.1 percent to 5.1 percent) decreases over baseline conditions in steelhead IP habitat following the initiation of flow into the restored channels on the reclaimed YPP (**Figure 24**).

In mine years 17 through 19, there would be maximum steelhead IP habitat gains, compared to baseline conditions, following the construction of Meadow Creek on the TSF/DRSF and initiation of flows into the new channels. In these years, steelhead IP habitat increases 22.5 percent over baseline conditions (**Figure 24**). It is important to note that the steelhead IP habitat on top of the TSF/DRSF will not have volitional passage.

In mine year 20, when Hangar Flats Pit Lake is full, SFA reaches HL1 and HL2 will be decommissioned, resulting in a total loss of steelhead IP habitat through these reaches. The loss of these two reaches decreases usable habitat from gains over baseline conditions between Year 19 and Year 20; resulting in the final net increase of 9.6 percent in steelhead IP habitat (**Figure 24**). The final net increase of 9.6 percent would expand the extent of usable steelhead IP by 1,405 meters over baseline conditions.

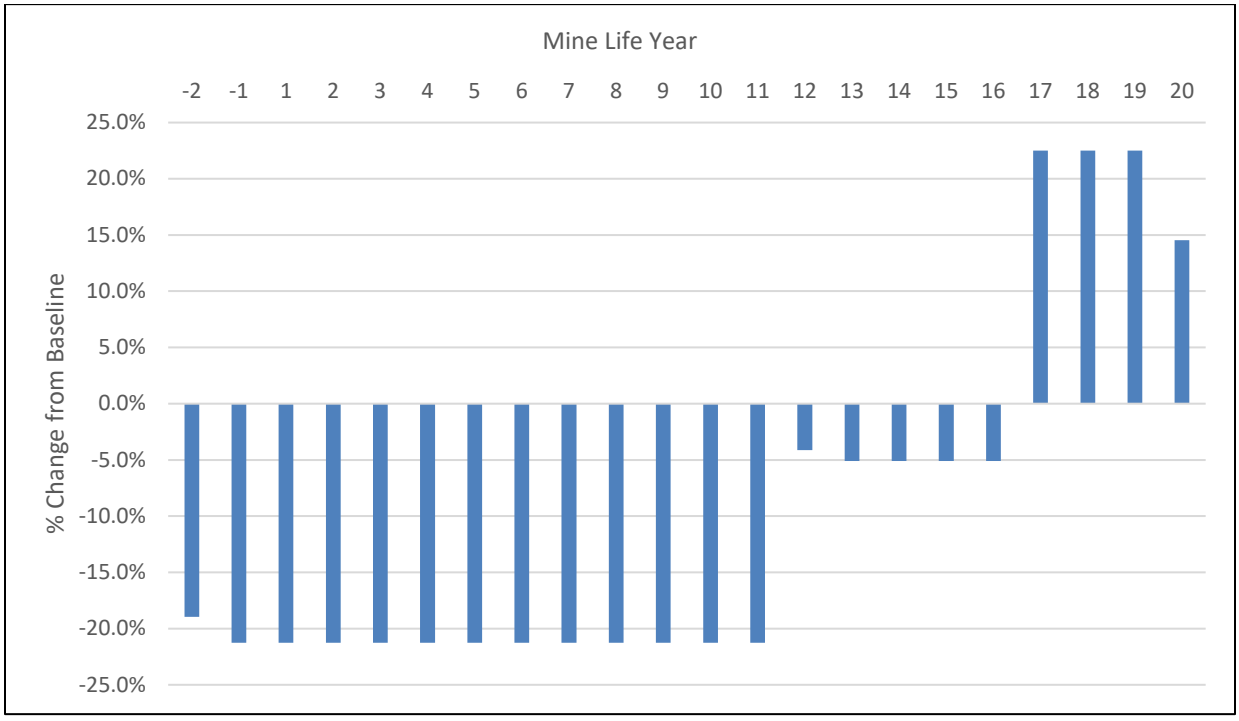



**Figure 24. Percent Change in Usable Steelhead IP Habitat in Stream Segment 5 (Upper EFSFSR above Sugar Creek)**

## 5.3 MEADOW CREEK (STREAM SEGMENT 2) VERSUS UPPER EFSFSR ABOVE MEADOW CREEK (STREAM SEGMENT 3)

As described in the PRO and SPLNT reports, stream segment 2 would experience more modification in physical habitat and discharge than stream segment 3 (Midas Gold 2016; Brown

and Caldwell 2019). Notably, the TSF/DRSF, Hangar Flats Pit, and subsequent Hangar Flats Pit Lake would be constructed in the Meadow Creek (stream segment 2) drainage (Midas Gold 2016). These activities would impact the stream segments in the Meadow Creek drainage. Conversely, the only identified action that would impact stream habitat in the Upper EFSFSR above the Meadow Creek confluence (stream segment 3) would be stream enhancement (Year -1). Impacts to Chinook salmon and steelhead IP habitat would be greater in the Meadow Creek (stream segment 2) drainage than in the Upper EFSFSR above the Meadow Creek confluence (stream segment 3).

### 5.3.1 Chinook Salmon

The quantity of Chinook salmon IP habitat in stream segment 2 would decrease 59.4 percent over the life of the mine compared to baseline conditions (**Figure 25**). Conversely, Chinook salmon usable IP habitat in stream segment 3 would not change over the life of the mine compared to baseline conditions (**Figure 25**). Mine activities that impact habitat conditions in stream segment 2 would occur in Year -2 (TSF/DRSF diversion), resulting in a 56 percent reduction; Years 13 through 19 (Hangar Flat Lake filling), with a maximum 98 percent reduction; and Year 20 with the loss of SFA reaches HL1 and HL2, inducing a 59.4 percent reduction (**Figure 25**) over baseline conditions. Mine activities that improve stream habitat conditions in stream segment 2 would occur in Year -1 (enhancement/restoration of stream segments downstream of the TSF/DRSF diversions) and Year 17 (construction of Meadow Creek on TSF/DRSF); the latter does not impact Chinook salmon IP Habitat, because wetted widths are insufficient to support IP habitat. SFA reach EF1, in stream segment 3, would be enhanced in Year -1, resulting in a change in Chinook IP habitat, where 104.6 meters of medium-rated Chinook salmon IP habitat would change to low-rated. This change does not affect the overall amount of "usable" Chinook salmon IP habitat in the Upper EFSFSR above Meadow Creek confluence (**Figure 25**).

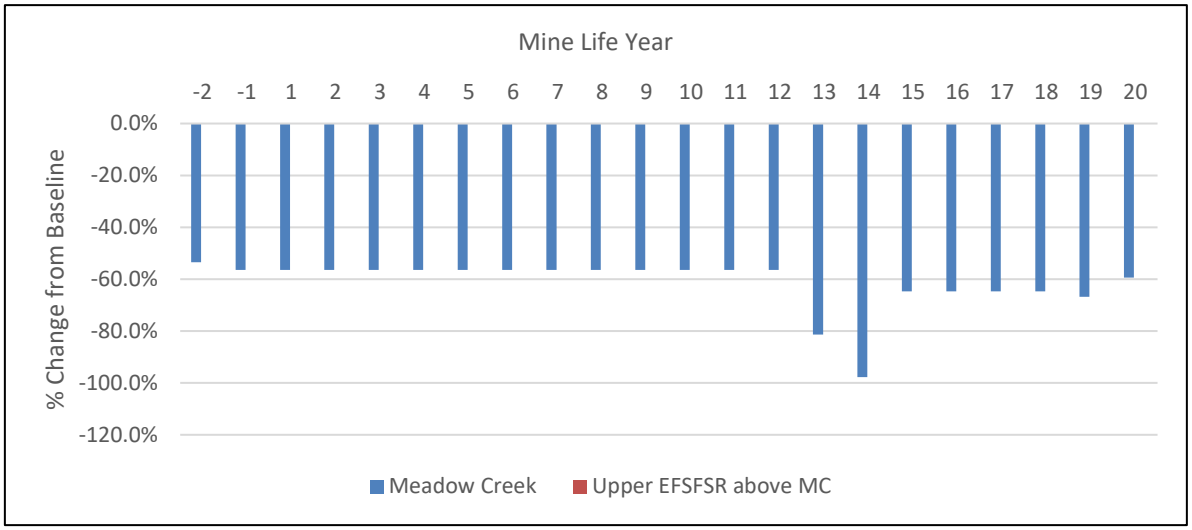



**Figure 25. Comparison of Stream Segment 2 (Meadow Creek) and 3 (Upper EFSFR above Meadow Creek) Percent Change (Compared to Baseline) in Usable Chinook Salmon IP Habitat per Mine Life Year**

### 5.3.2 Steelhead

The quantity of steelhead IP habitat in stream segment 2 would decrease 4.0 percent over the life of the mine, compared to baseline conditions (**Figure 26**). Steelhead IP habitat in stream

segment 3 would decrease 3.0 percent over the life of the mine (**Figure 26**). As mentioned above, habitat losses and gains are not linear for steelhead IP habitat in stream segment 2. Mine activities that impact steelhead IP habitat conditions in Meadow Creek (stream segment 2) would occur in Year -2 (TSF/DRSF diversion), resulting in a 48.4 percent reduction; and Years 13 through 16 (Hangar Flat Lake filling), with a maximum 54.2 percent reduction over baseline conditions (**Figure 22**). Mine activities that improve stream habitat conditions in stream segment 2 would occur in Year negative 1 (enhancement/restoration of stream segments downstream of the TSF/DRSF diversions) and Year 17 (construction of Meadow Creek on TSF/DRSF, no volitional passage). The construction of Meadow Creek on the TSF/DRSF would benefit steelhead IP habitat in Meadow Creek, because stream design criteria for the reclaimed reaches are beneficial to IP habitat. The restoration of Meadow Creek on the TSF/DRSF (Years 17 through 19) increases the IP habitat for steelhead to 16.3 percent above baseline conditions (**Figure 26**). This increase in habitat should be viewed as similar to the existing conditions IP habitat above YPP, because the TSF/DRSF would likely be a barrier to volitional (choose to) passage. This increase in IP habitat would be temporary, because in Year 19 SFA, reaches HL1 and HL2 would be decommissioned in Hangar Flats Pit Lake, reducing steelhead IP habitat in Meadow Creek to 4.0 percent below baseline conditions (**Figure 26**). The 3.0 percent decrease in steelhead IP habitat in stream segment 3 (Upper EFSFSR above Meadow Creek confluence) would be a result of the enhancement of SFA reach EF1 in Year -1 (**Figure 26**). Steelhead IP habitat in the Upper EFSFSR above Meadow Creek would experience a slight decrease in habitat in Year -1, because 90 meters of low-rated habitat would be changed to “none.” This loss of low-rated IP habitat would result in a 3.0 percent decrease in useable steelhead IP habitat in stream segment 3 throughout the mine life (**Figure 26**).

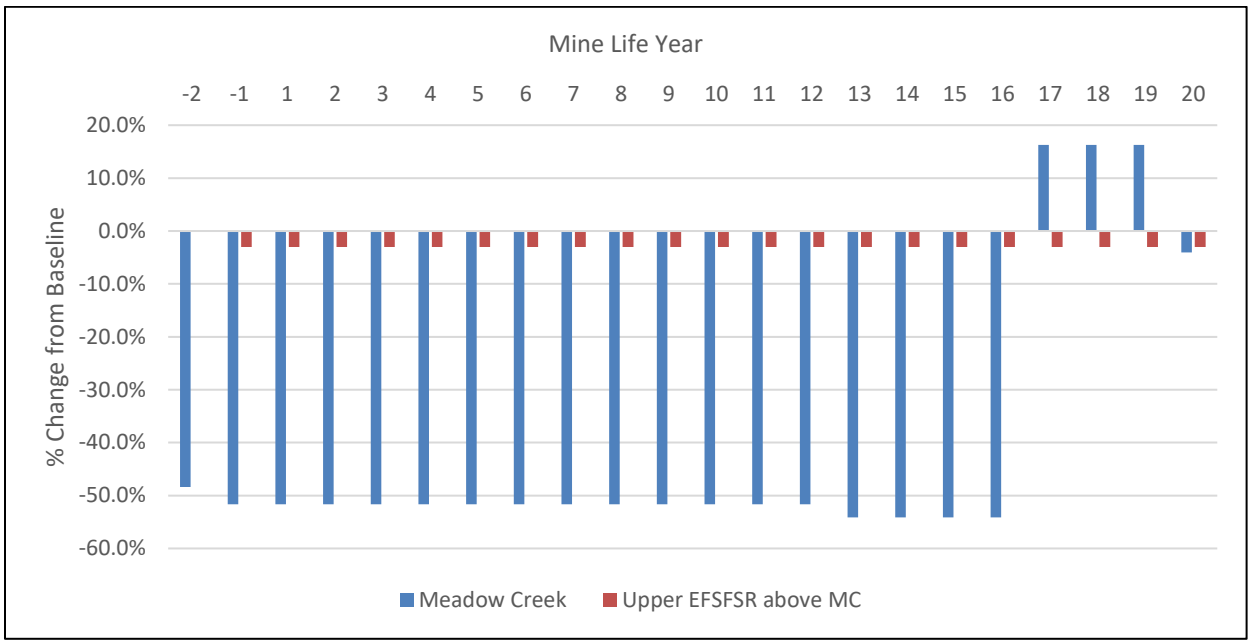



**Figure 26. Comparison of Meadow Creek and the Upper EFSFSR above Meadow Creek Percent Change (Compared to Baseline) in Usable Steelhead IP Habitat per Mine Life Year**

# 6.0 SUMMARY

Mining activities in the study area would affect both the quantity and quality of spawning and early-rearing habitat (as measured by IP habitat) for Chinook salmon and steelhead. Enhancement and reclamation of stream reaches throughout the study area would improve the quality of IP habitat for the two species in some reaches. Mining activities, dewatering, and storage facilitates would reduce IP habitat. Mining activities would occur at the same time as enhancement and reclamation actions, making the accounting of IP habitat changes non-linear; habitat losses per year due to mining activity may be greater than enhancement/reclamation gains and vice versa. The following are the main outcomes of this analysis.

**Chinook Salmon**

- In the entire study area, the proposed action would decrease the total amount of Chinook salmon spawning and early-rearing habitat by 1,780.5 meters (9.6 percent) as shown by the comparison of baseline conditions to the post-closure stream configuration.
- In stream segment 5 (upper EFSFSR above Sugar Creek) Chinook salmon habitat would decrease 1,781 meters (15.6 percent) compared to baseline conditions.
- Over the life of the mine (baseline to post-closure), the amount of high-rated Chinook salmon IP habitat would decrease by 489 meters (58.3 percent).
- The amount of medium-rated Chinook Salmon IP habitat would decrease by 1,063 meters (14.6 percent).
- The amount of low-rated Chinook salmon IP habitat would increase by 612 meters (7.0 percent).
- The amount of negligible-rated Chinook salmon IP habitat would decrease by 840 meters (48.3 percent).

Overall, the proposed action would reduce the total amount of Chinook IP habitat and increase the amount of low-rated habitat in the study area.

**Steelhead**

- In the study area, the proposed action would increase the amount of steelhead IP habitat by 1,405.3 meters (7.9 percent) under the post-closure stream configuration compared to baseline conditions. However, some of this habitat would not have volitional passage.
- In stream segment 5 (upper EFSFSR above Sugar Creek), steelhead habitat would increase 1,405.3 meters (14.5 percent) compared to baseline conditions. However, some of this habitat would not have volitional passage.
- Over the life of the mine (baseline to post-closure), high-rated steelhead IP habitat would increase by 2,841 meters (35.3 percent).
- Medium-rated steelhead IP habitat would increase 890 meters (150 percent).
- Low-rated Steelhead IP habitat would decrease by 2,335.3 meters (25.2 percent).

The proposed action would therefore result in a net increase in the extent and quality of steelhead IP habitat in the study area.

# 7.0 LITERATURE CITED

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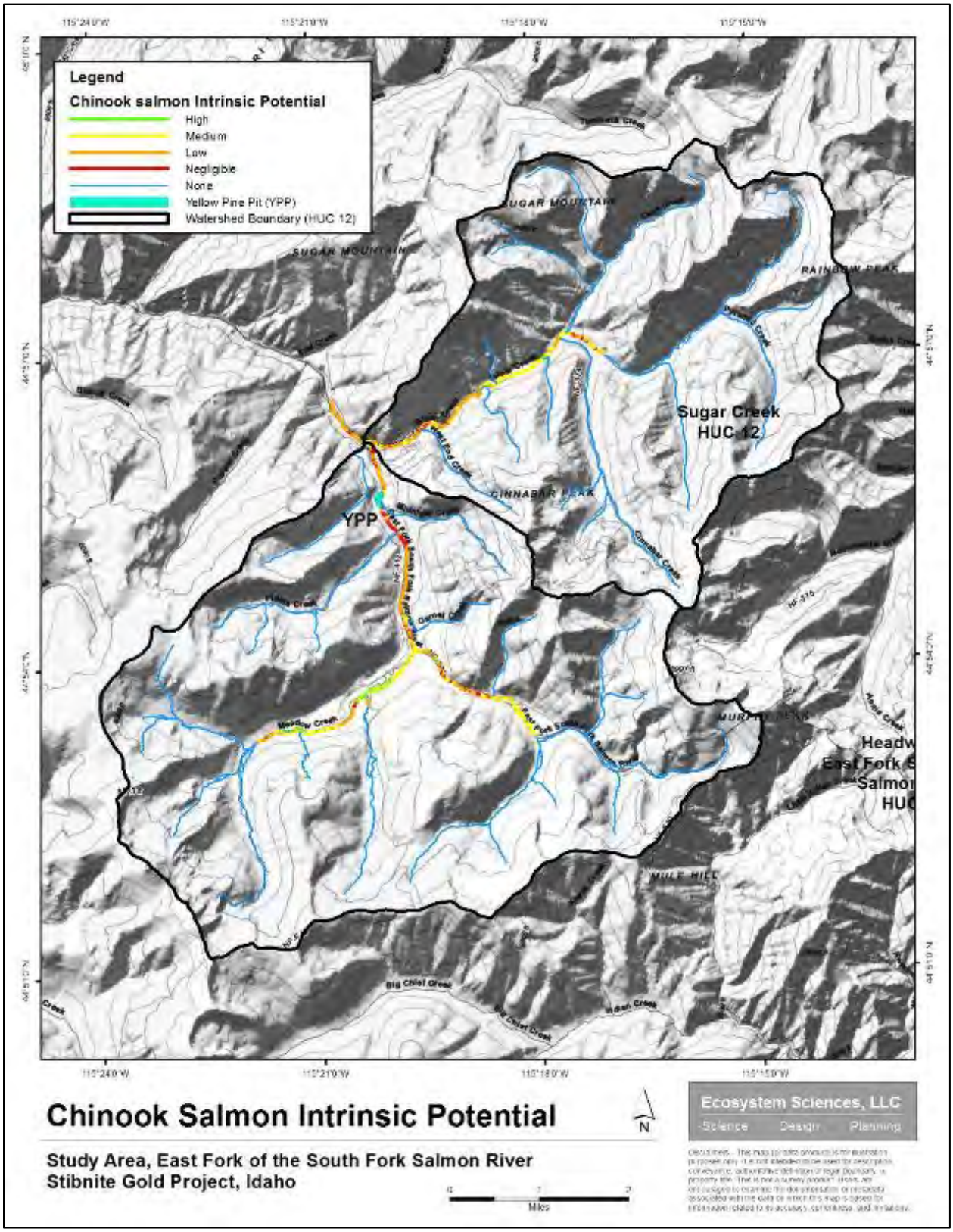
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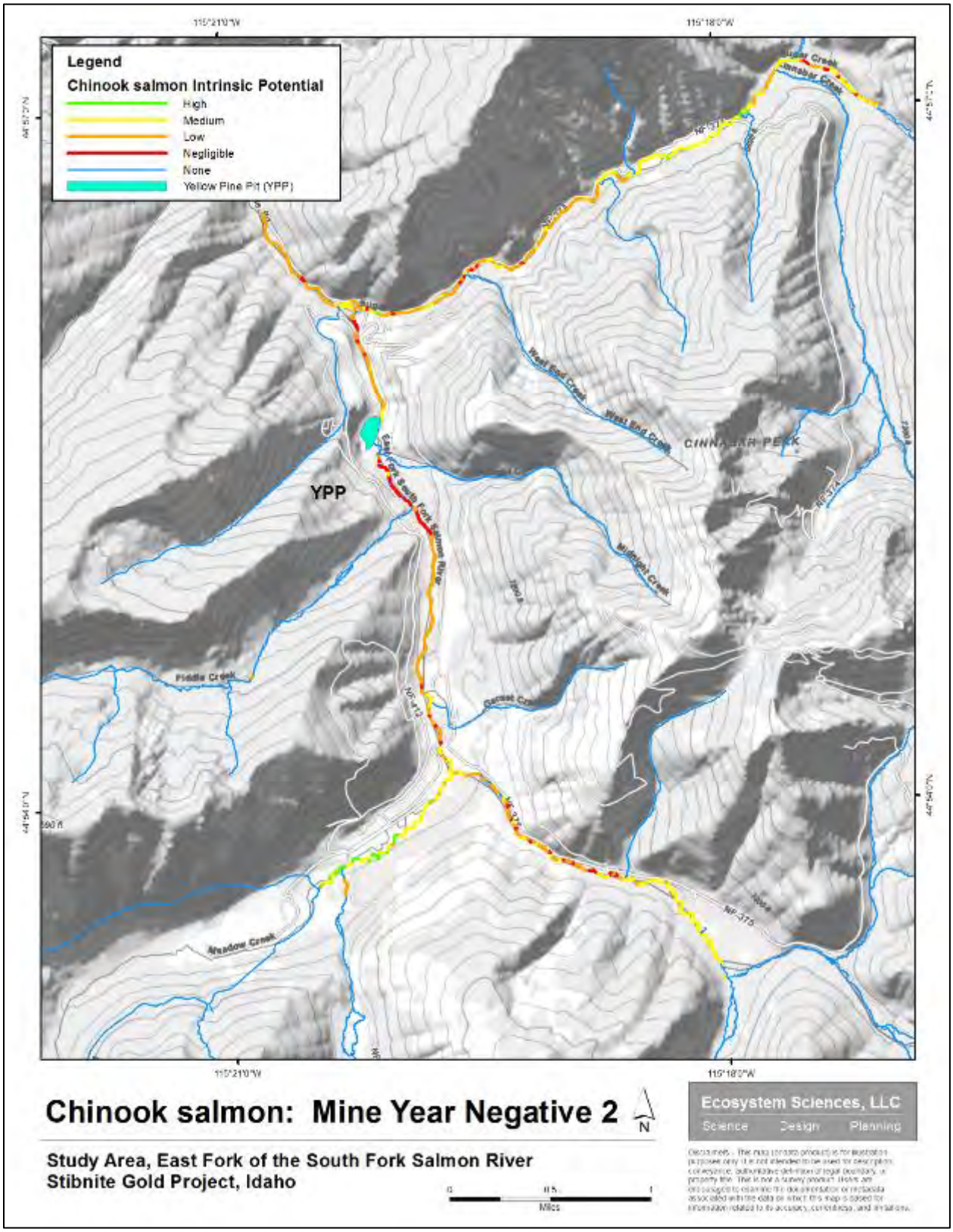
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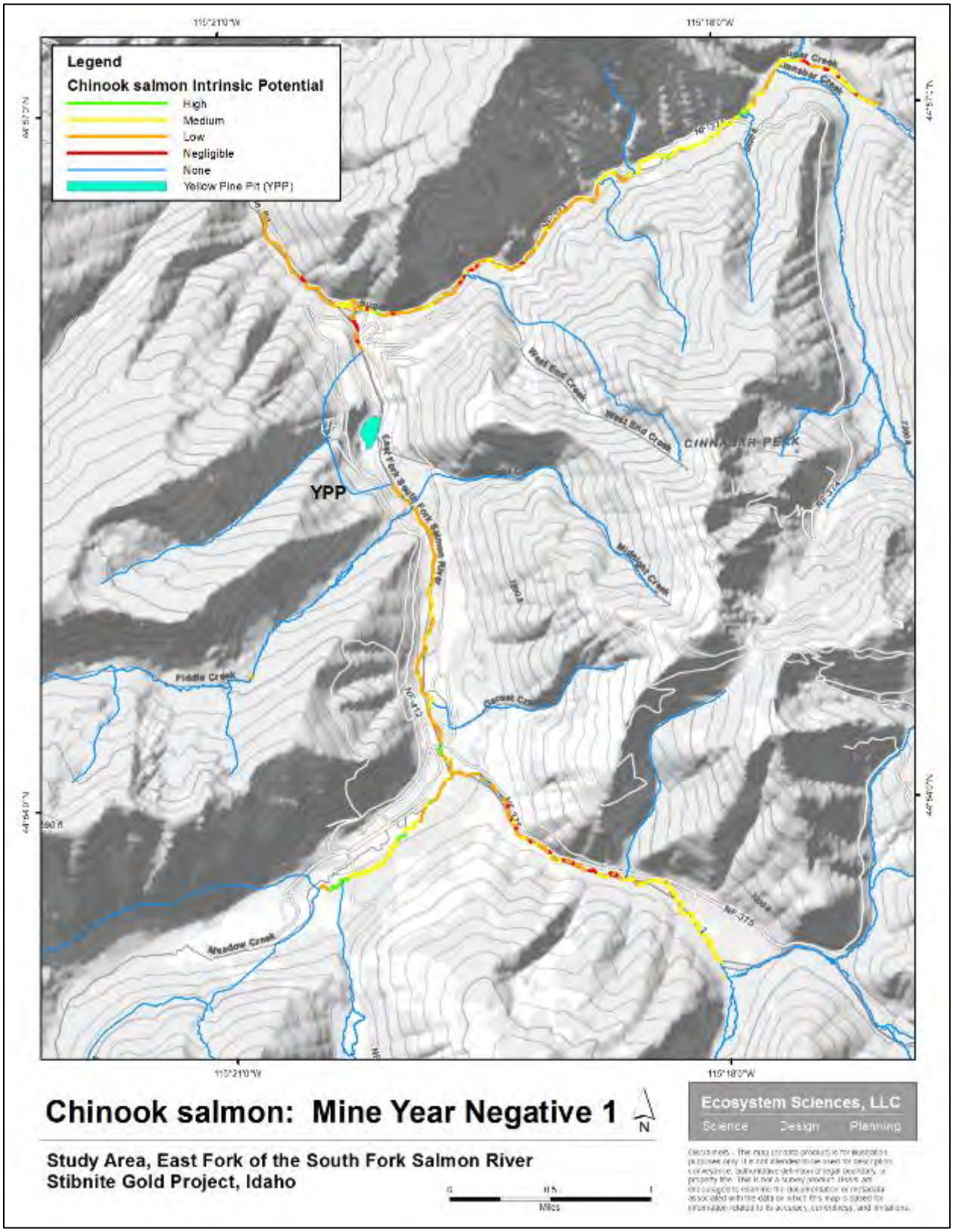
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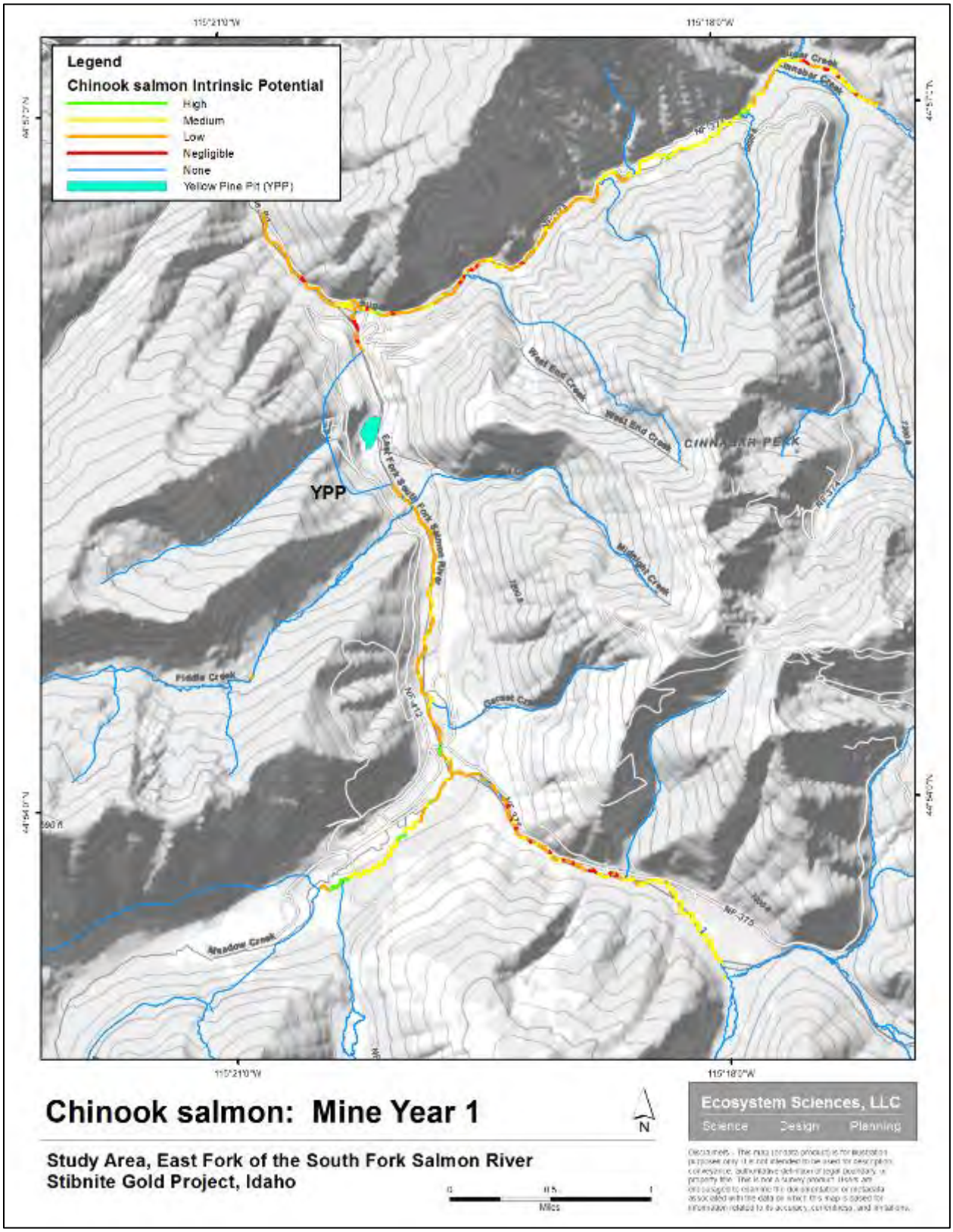
# APPENDIX A – PROPOSED ACTION MINE LIFE YEAR INTRINSIC POTENTIAL MAPS

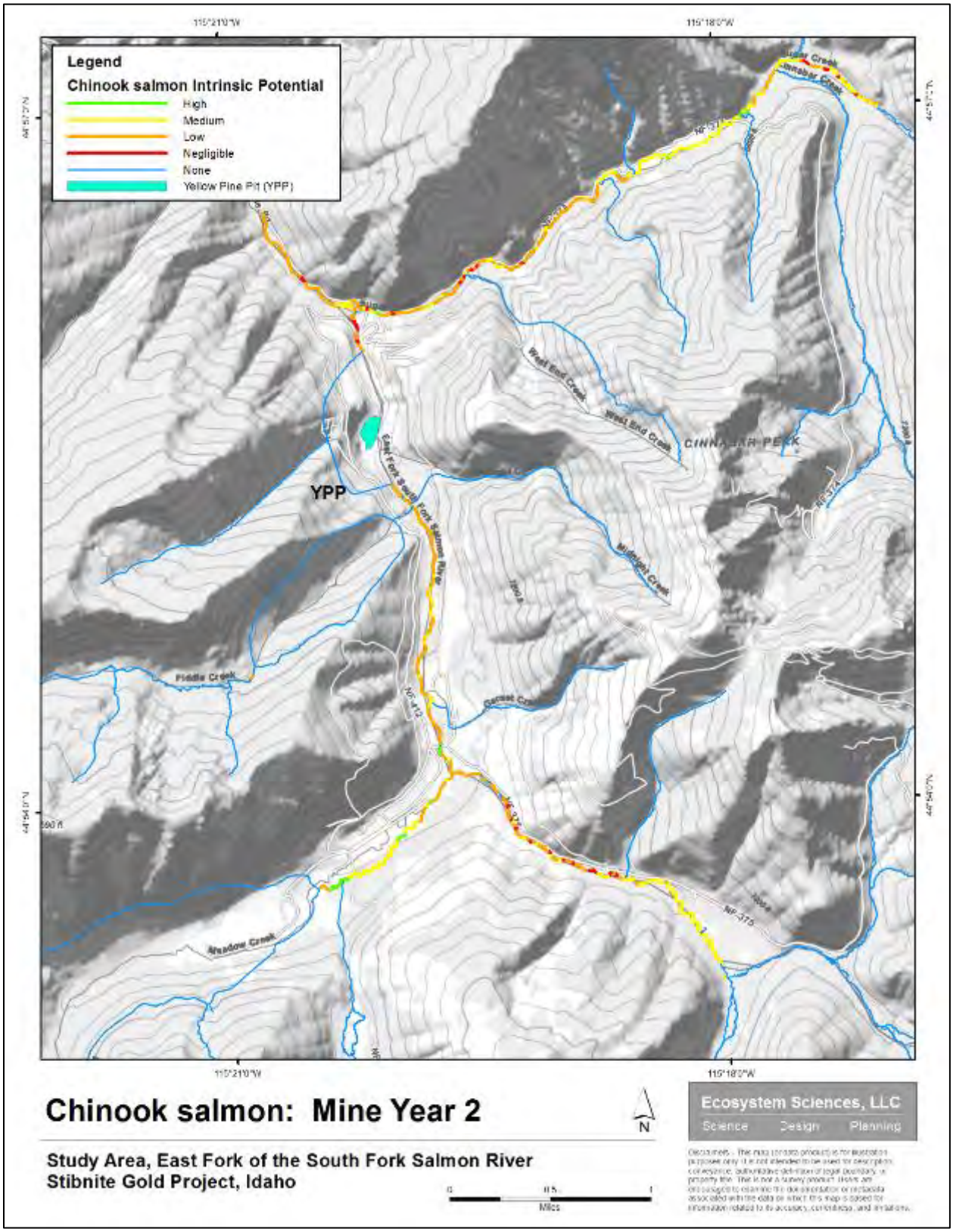
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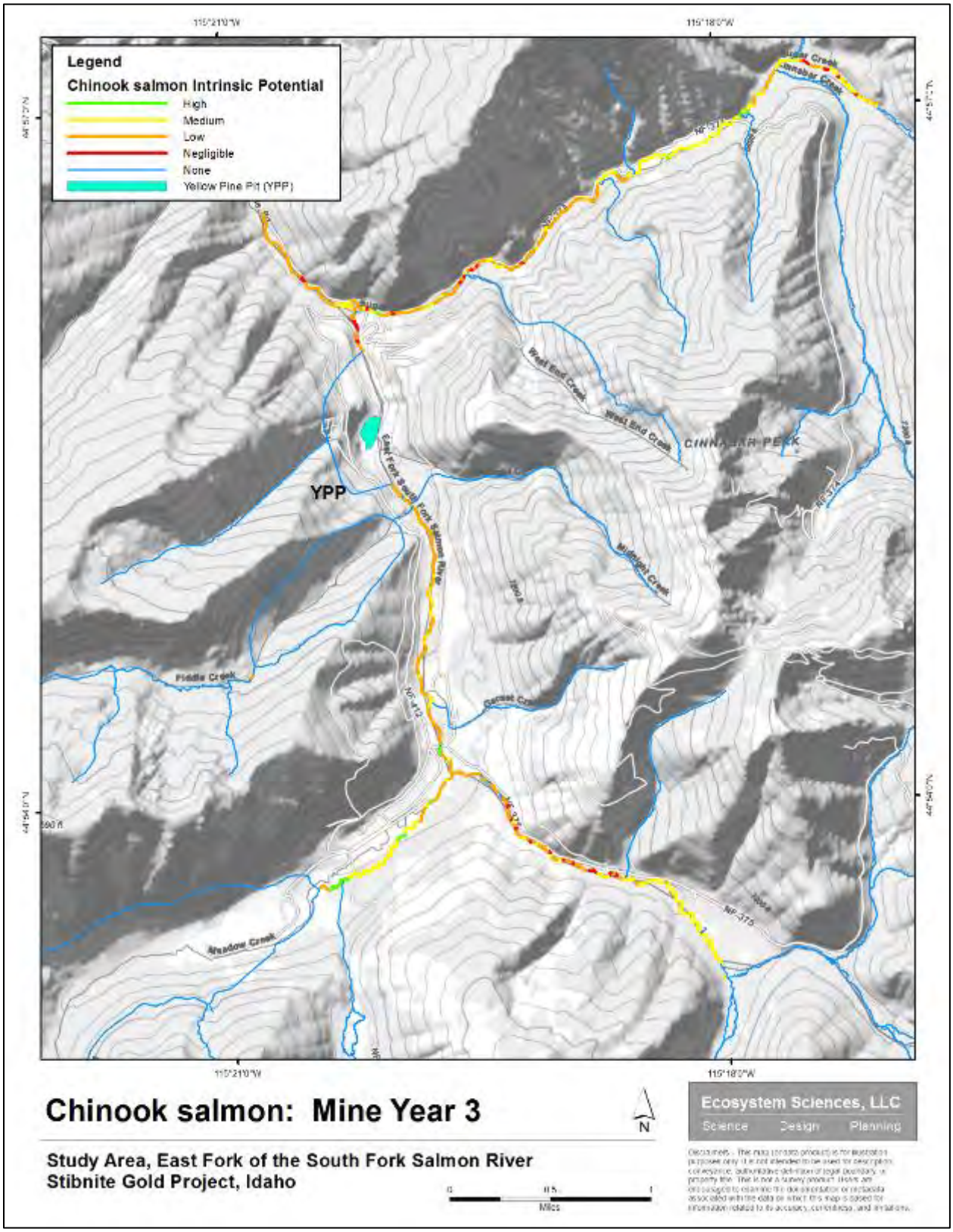

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Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
Watershed Boundary (HUC 12)
SUGAR MOUNTAIN
RAINBOW PEAK
CINNABAR PEAK
MULE HILL
Sugar Creek
HUC 12
YPP
Chinook Salmon Intrinsic Potential
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

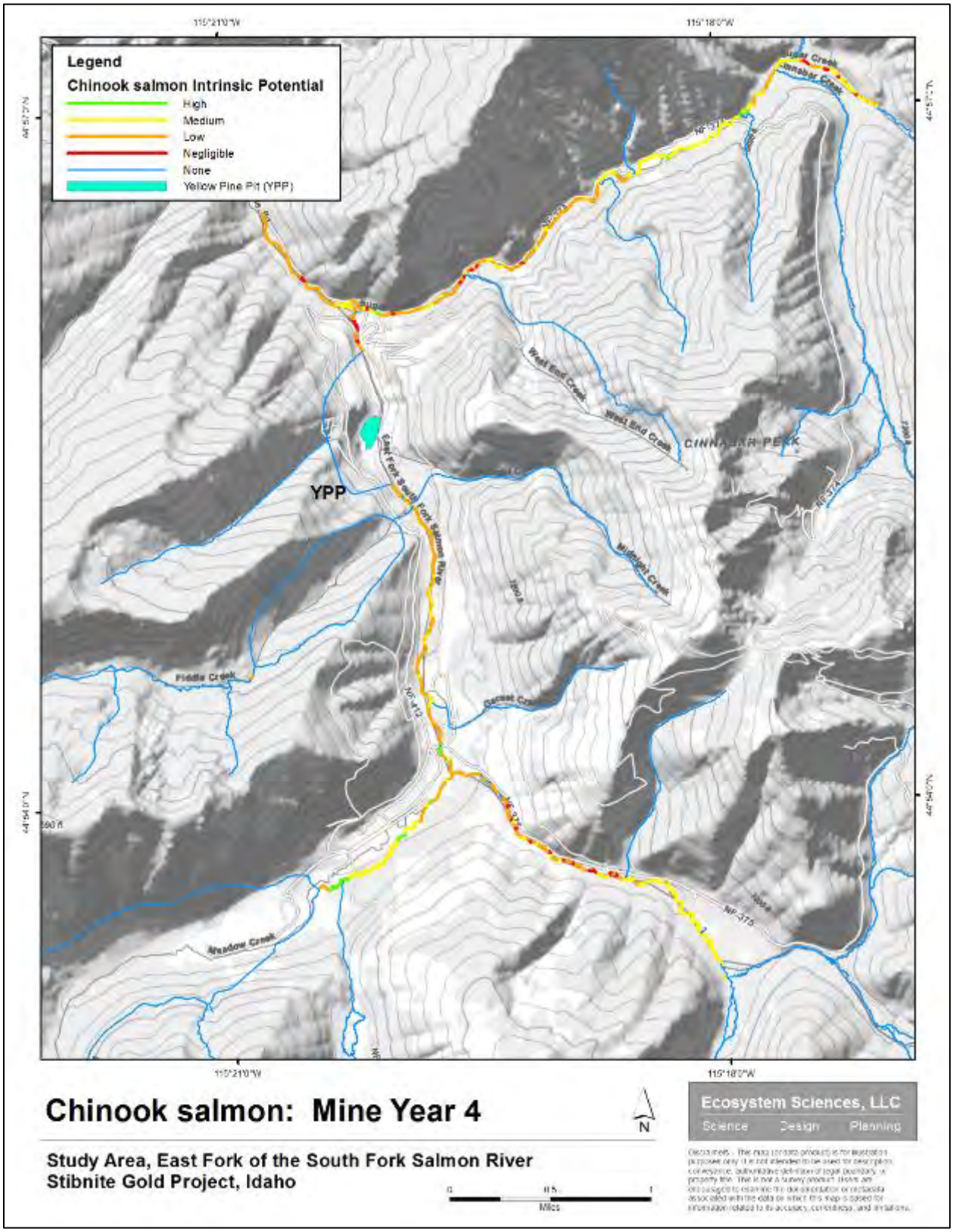

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Chinook salmon Intrinsic Potential
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Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
Chinook salmon: Mine Year Negative 2
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
Miles
Ecosystem Sciences, LLC
Science Design Planning

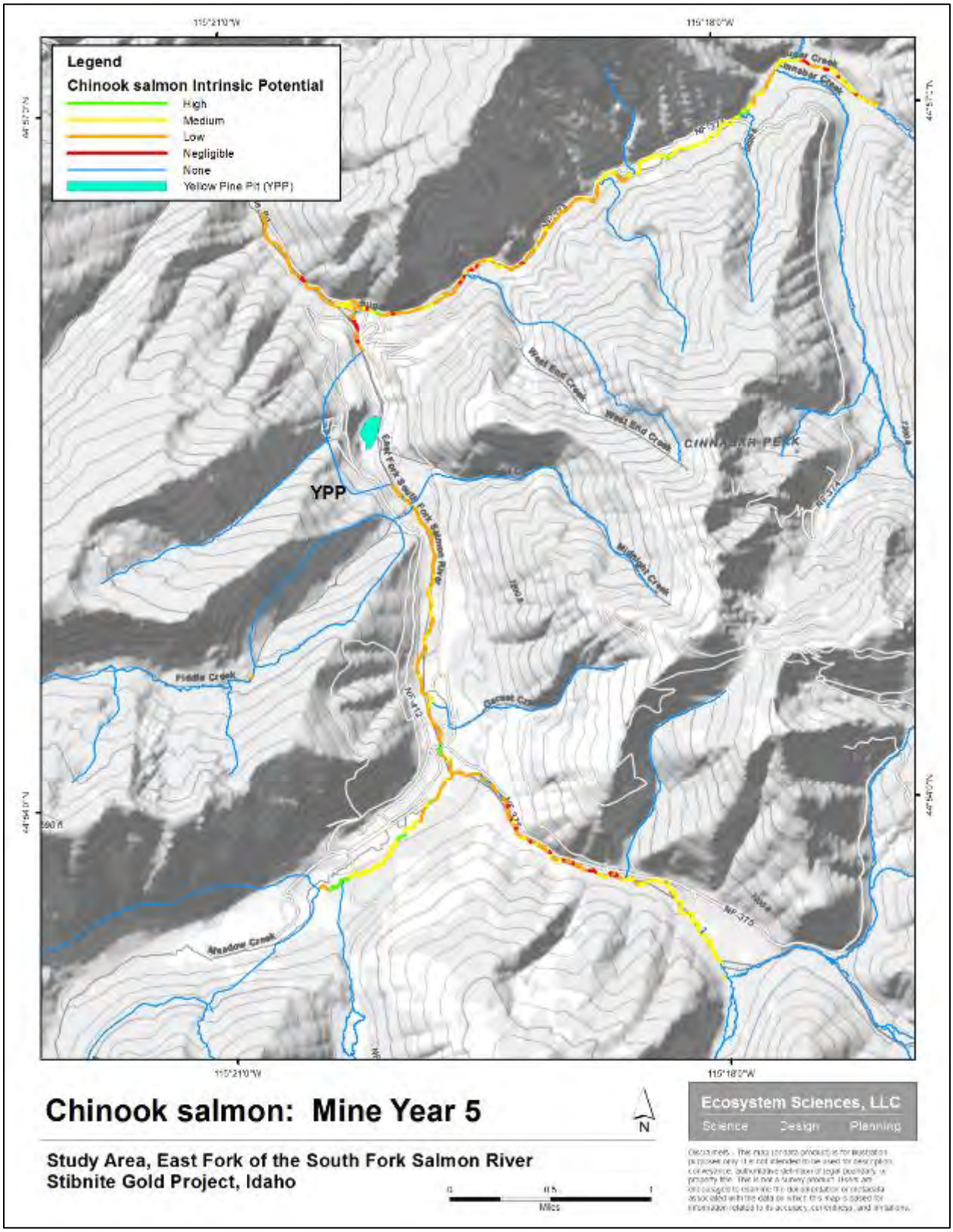

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
NF-413
NF-374
NF-375
Chinook salmon: Mine Year Negative 1
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

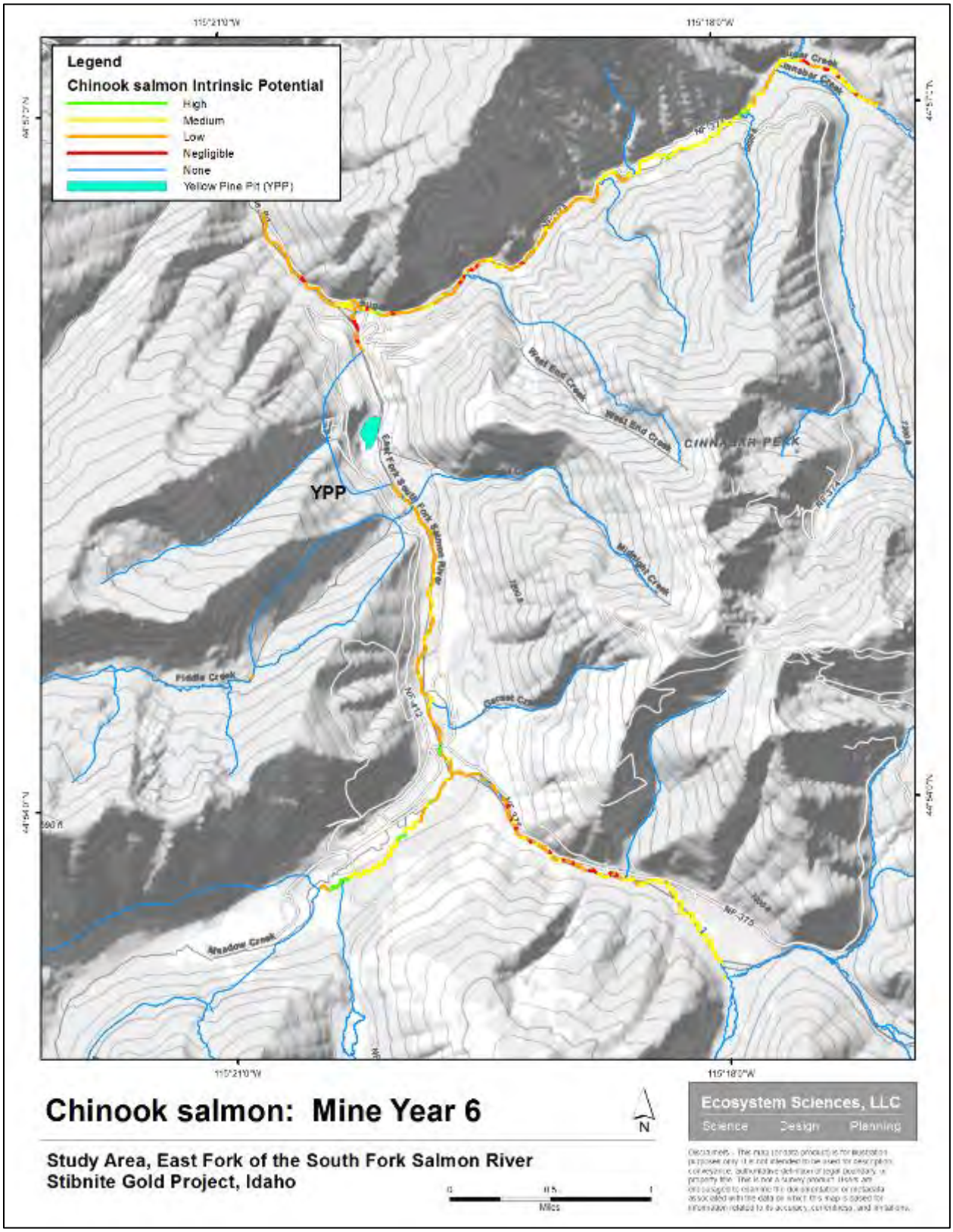

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
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Chinook salmon: Mine Year 1
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
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Science Design Planning

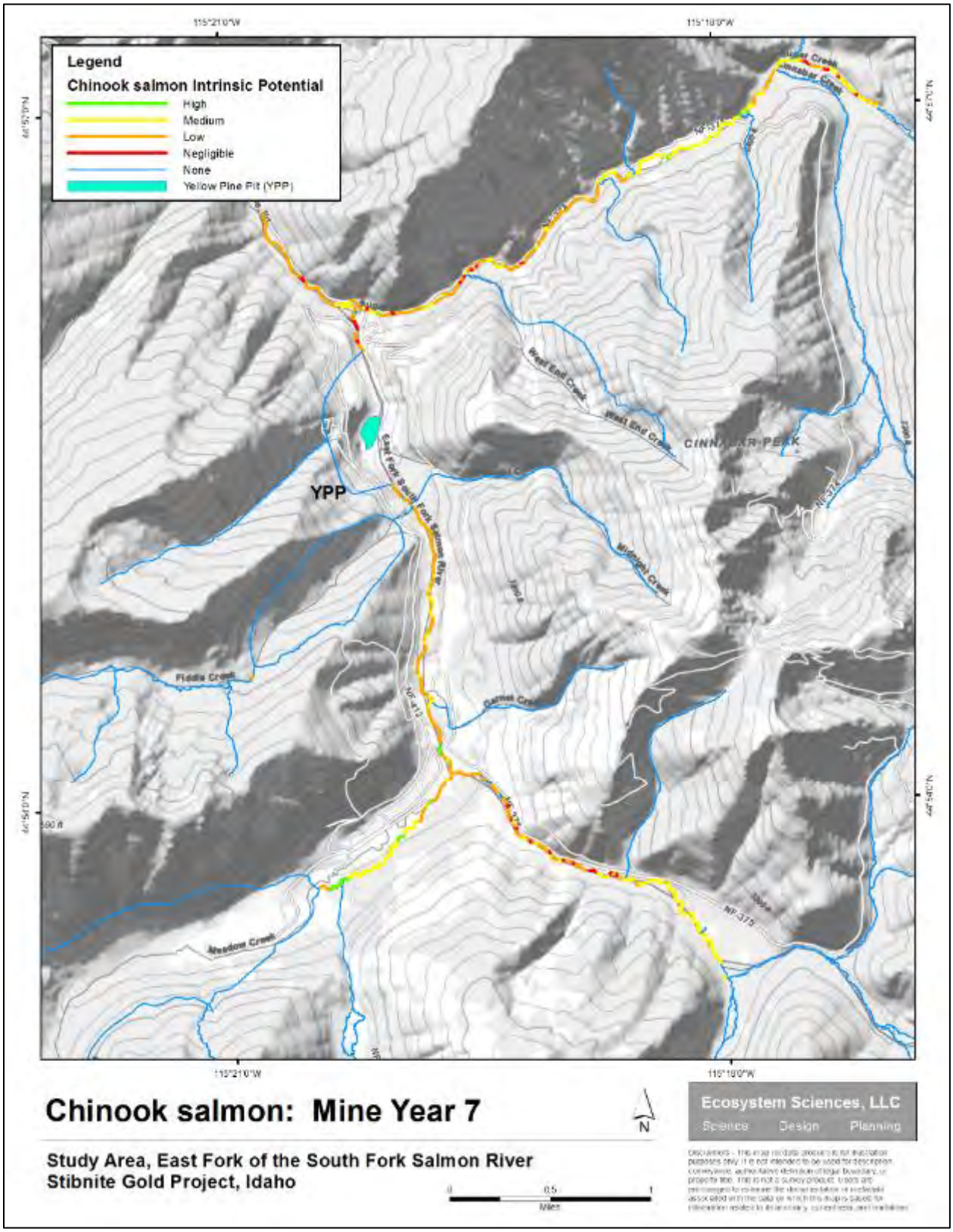

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Chinook salmon Intrinsic Potential
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Medium
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Negligible
None
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YPP
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West End Creek
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Midnight Creek
Fiddle Creek
Meadow Creek
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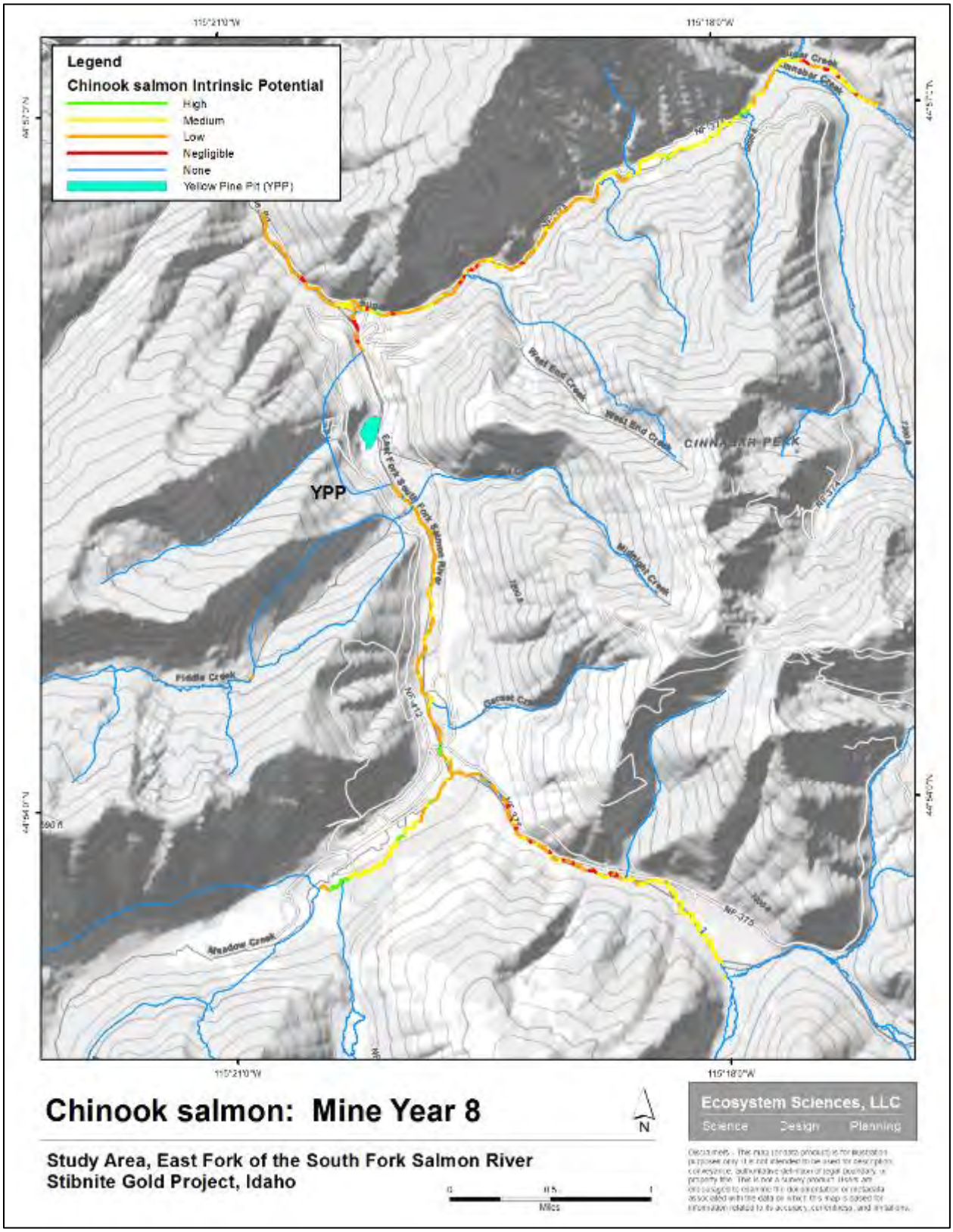

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
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Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
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Miles
Ecosystem Sciences, LLC
Science Design Planning

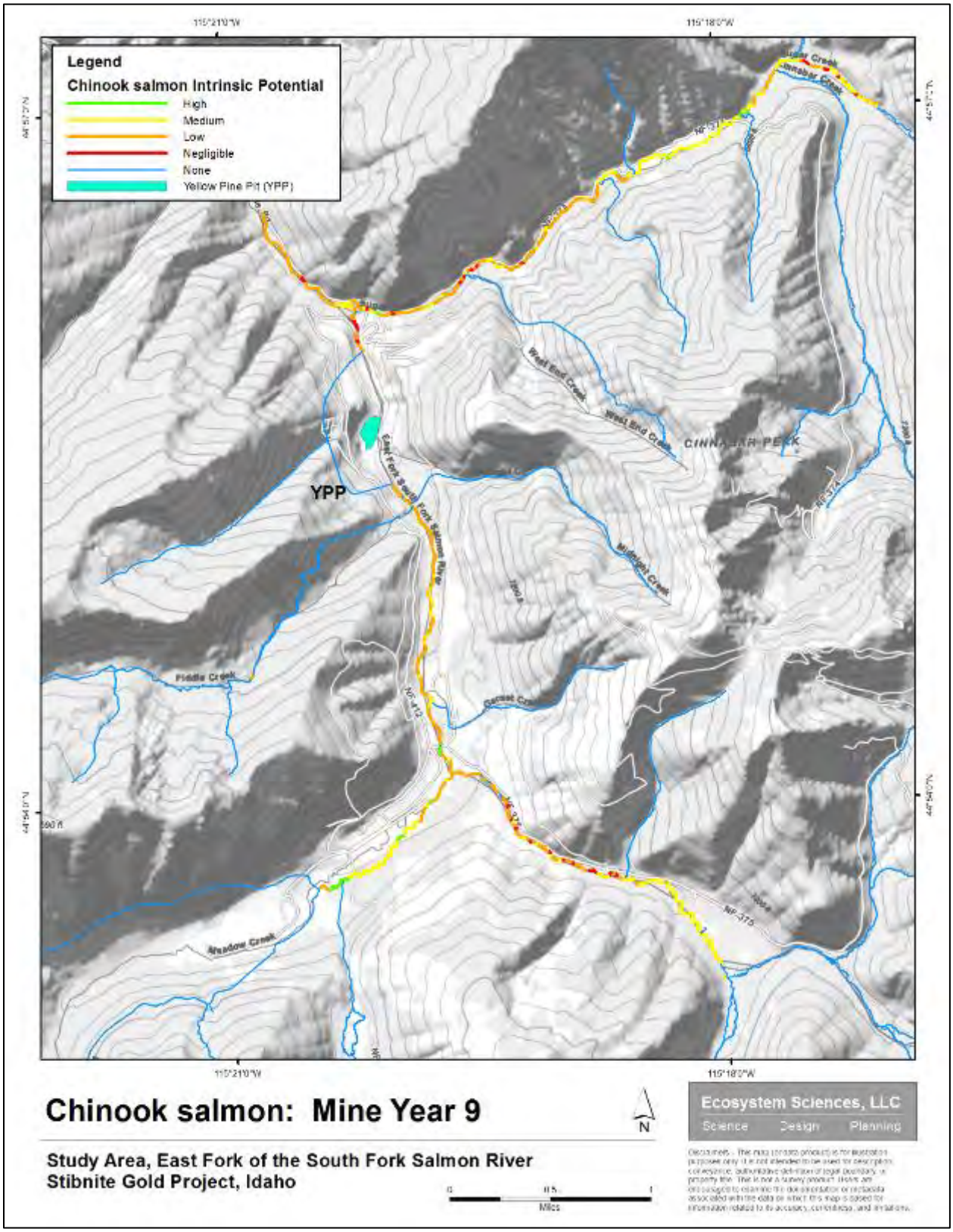

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Chinook salmon Intrinsic Potential
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Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
NF-413
NF-374
NF-375
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Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
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Miles
Ecosystem Sciences, LLC
Science Design Planning

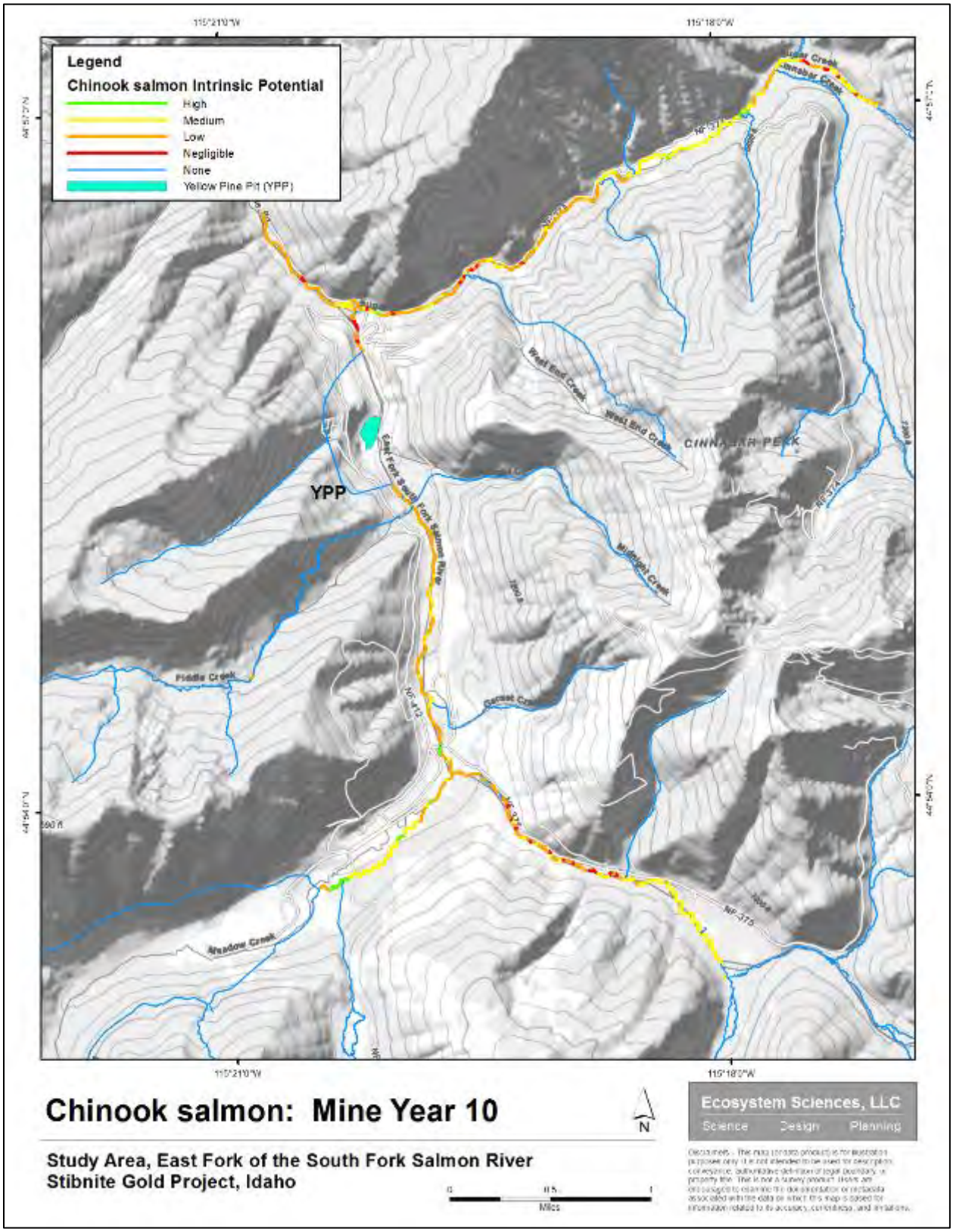

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Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
Chinook salmon: Mine Year 5
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
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Miles
Ecosystem Sciences, LLC
Science Design Planning

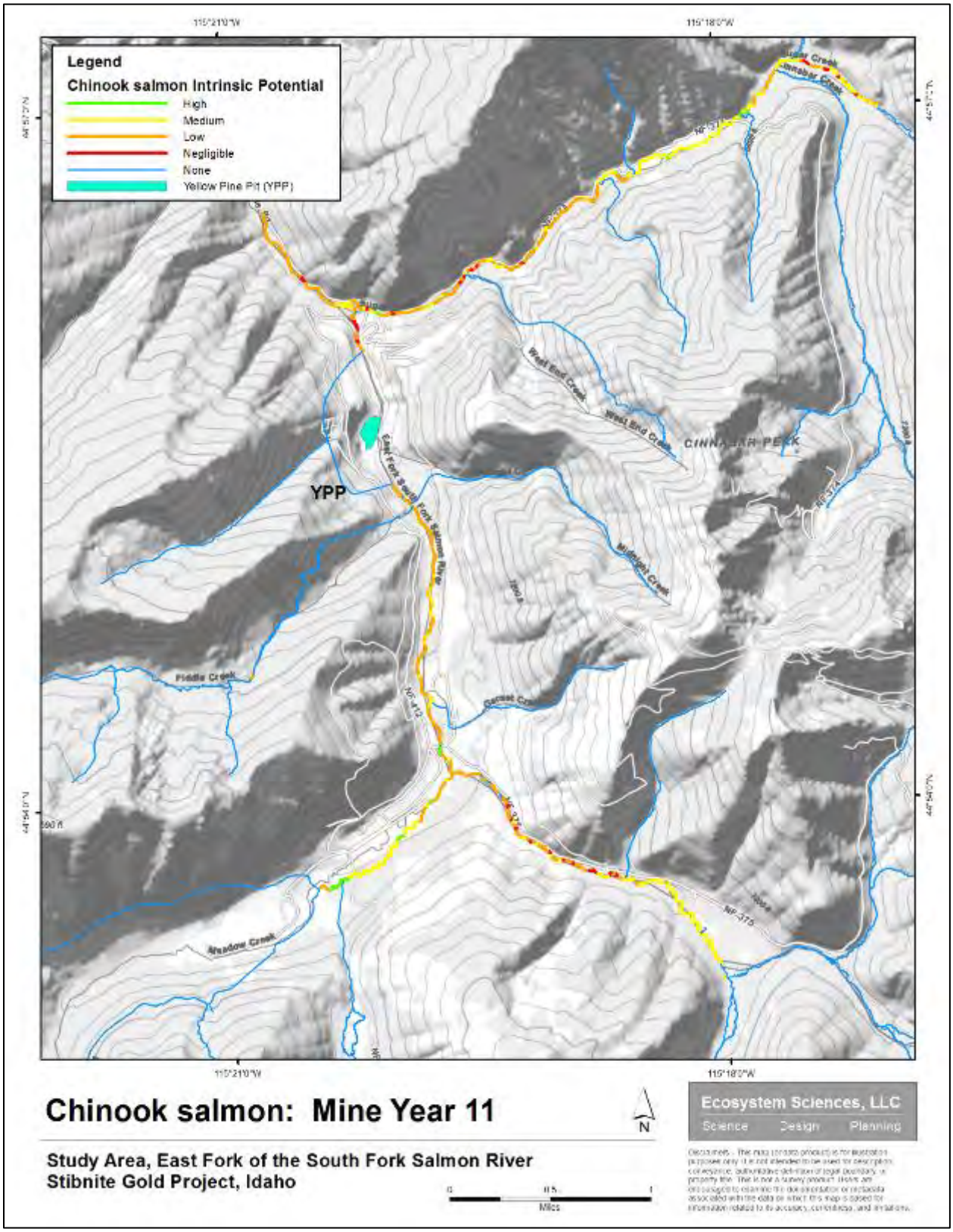

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
NF-413
NF-374
NF-375
Chinook salmon: Mine Year 6
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
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Science Design Planning

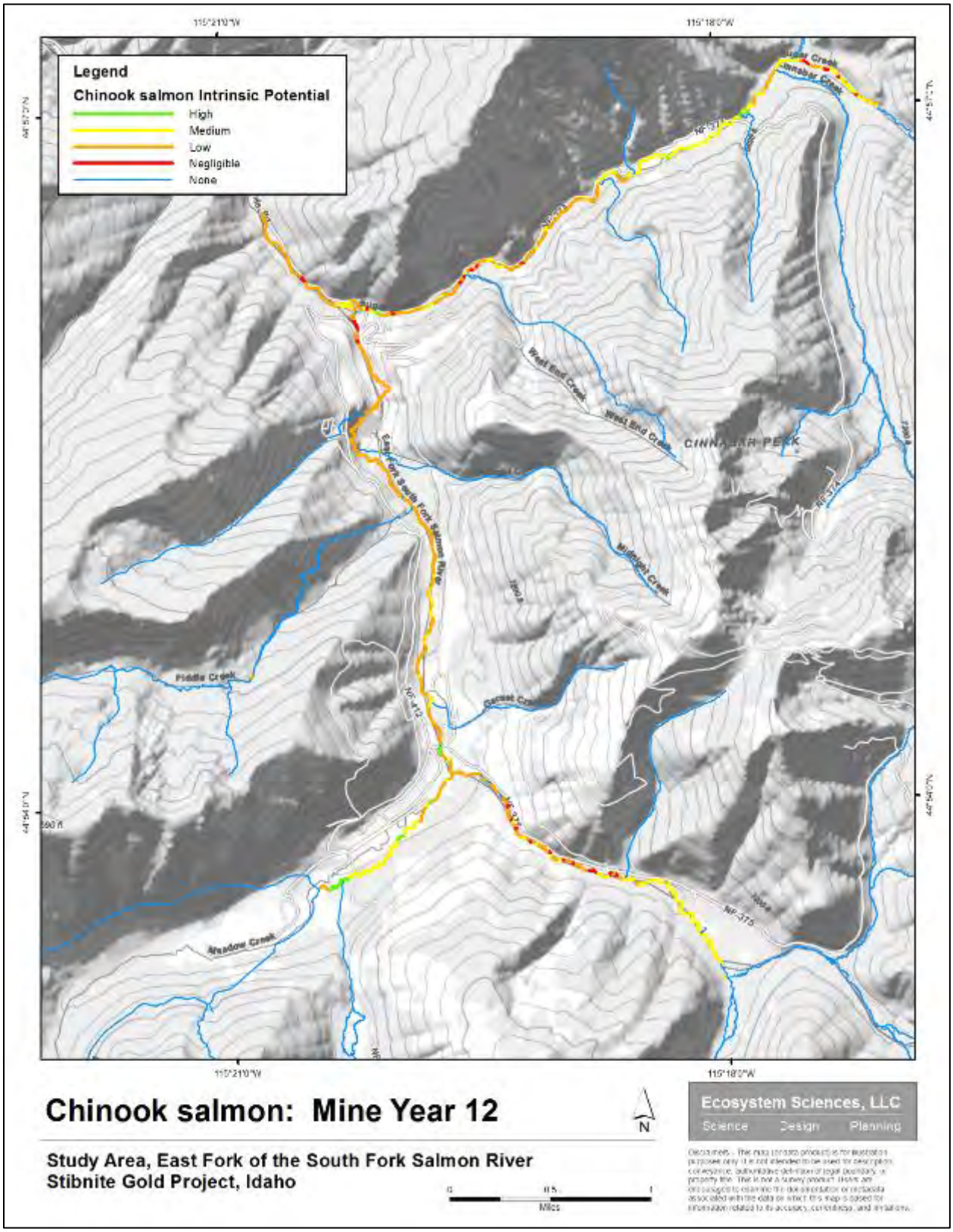

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
Fiddle Creek
Meadow Creek
Chinook salmon: Mine Year 7
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
Ecosystem Sciences, LLC
Science Design Planning

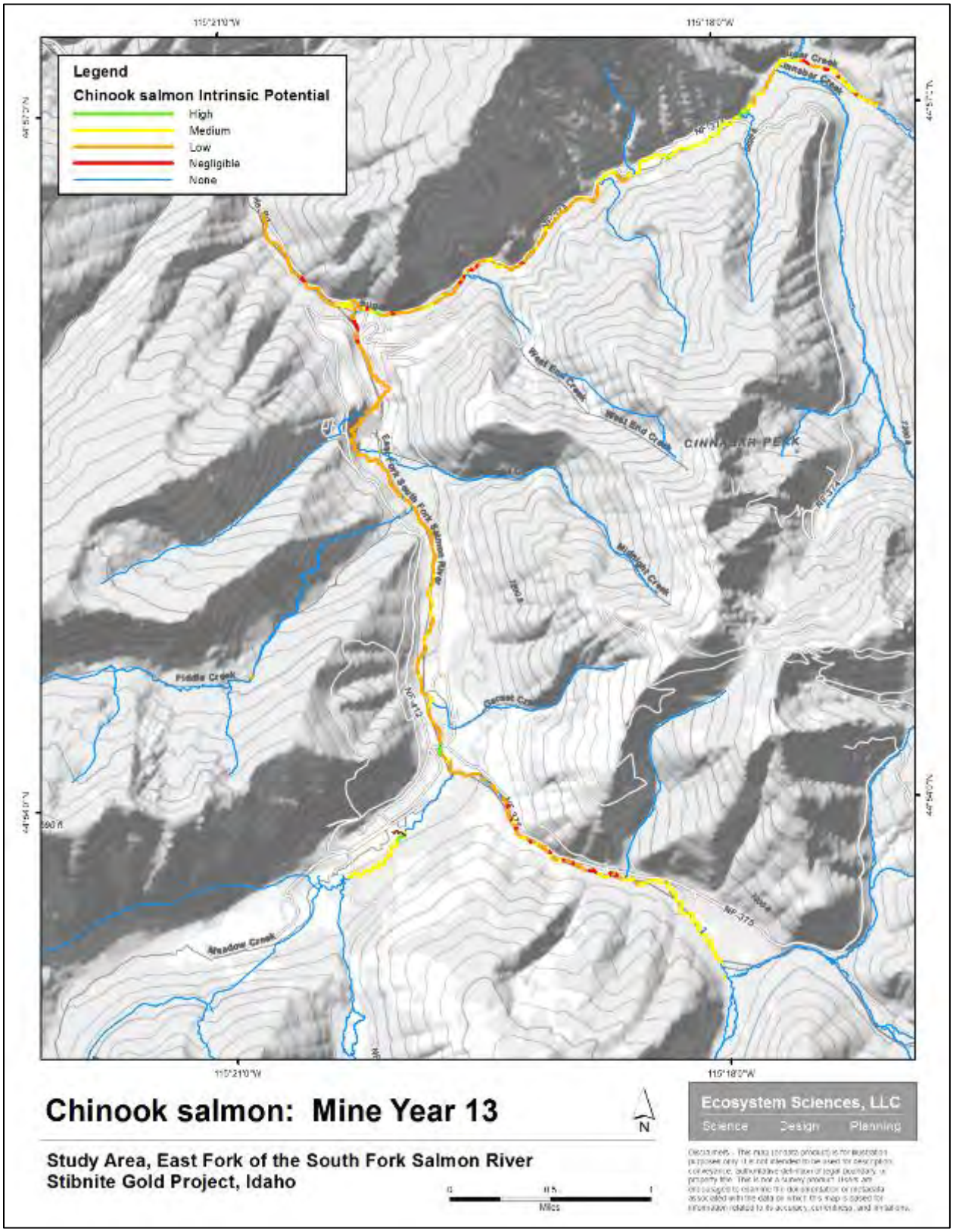

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
NF-413
NF-374
NF-375
Chinook salmon: Mine Year 8
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

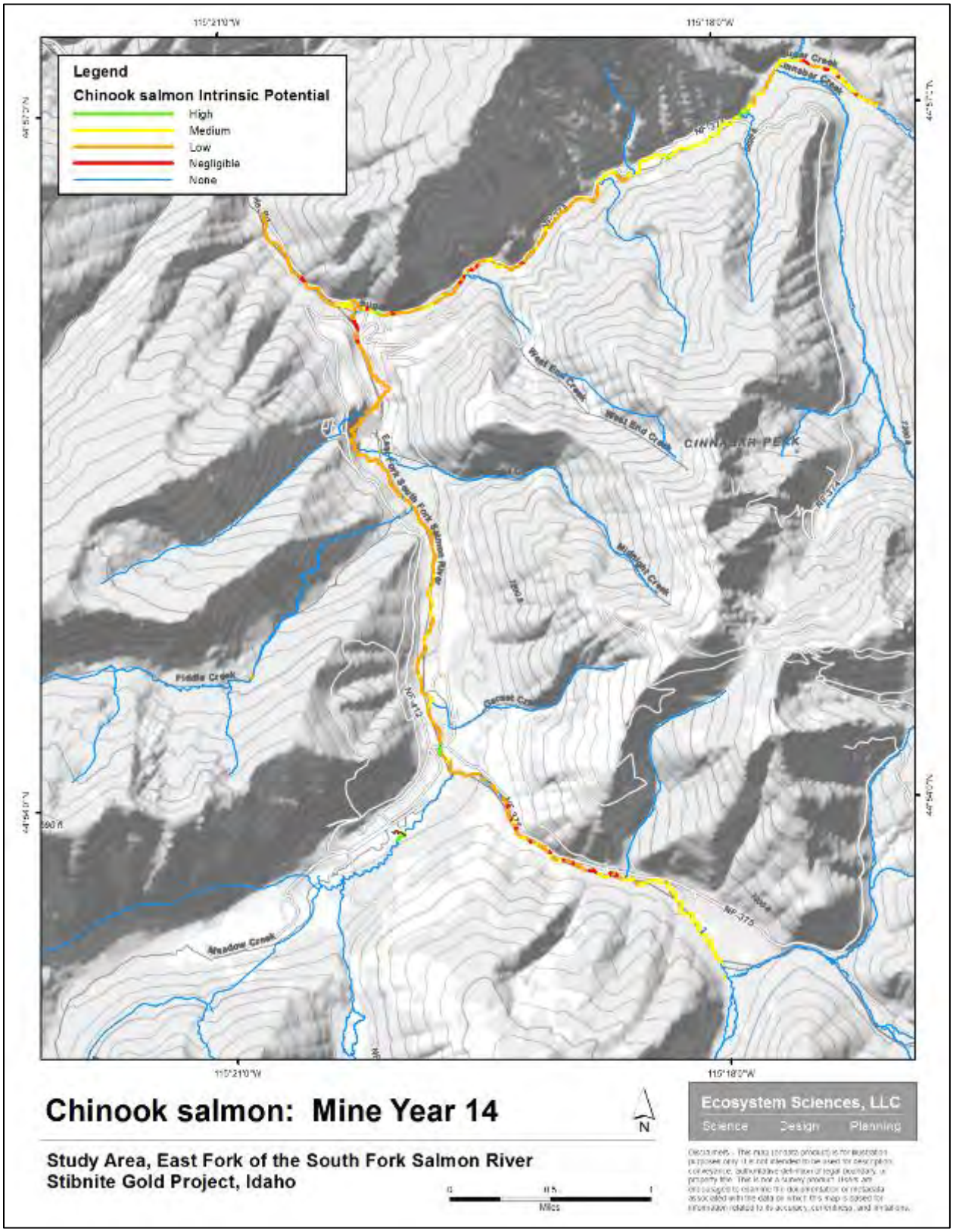

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
Cinnabar Creek
Chinook salmon: Mine Year 9
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

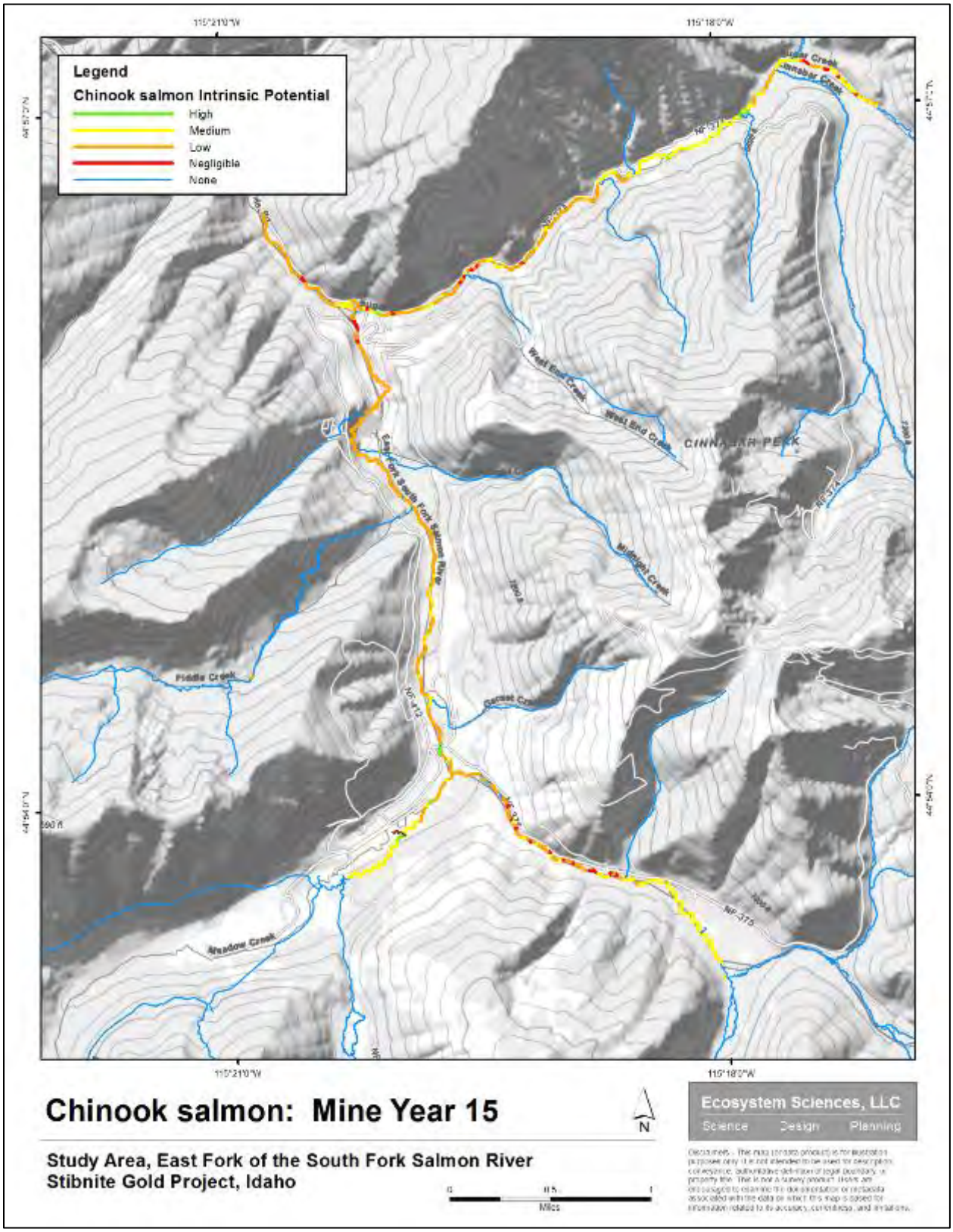

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
Fiddle Creek
Shadow Creek
Midnight Creek
West End Creek
Chinook salmon: Mine Year 10
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

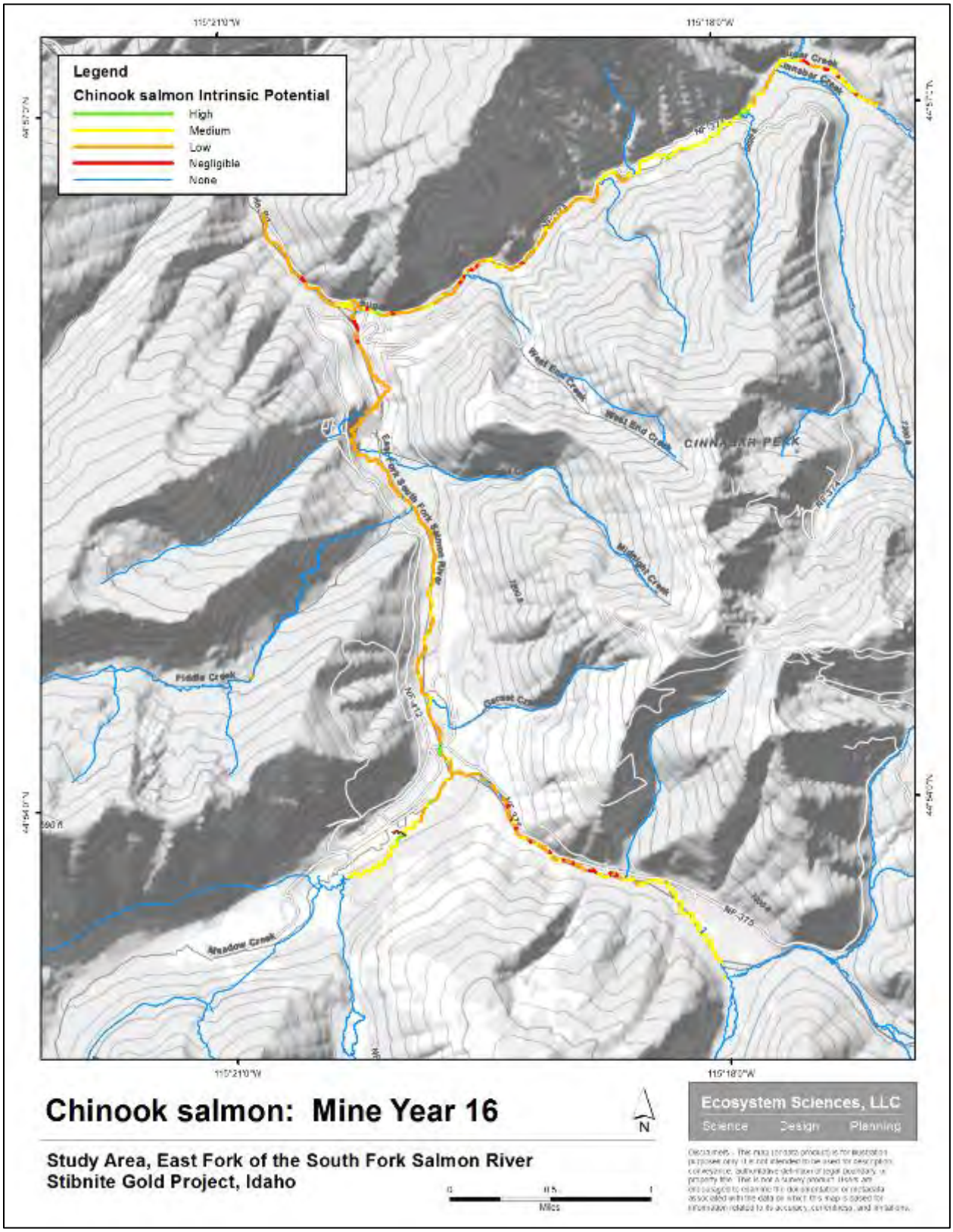

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
Cinnabar Creek
Chinook salmon: Mine Year 11
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

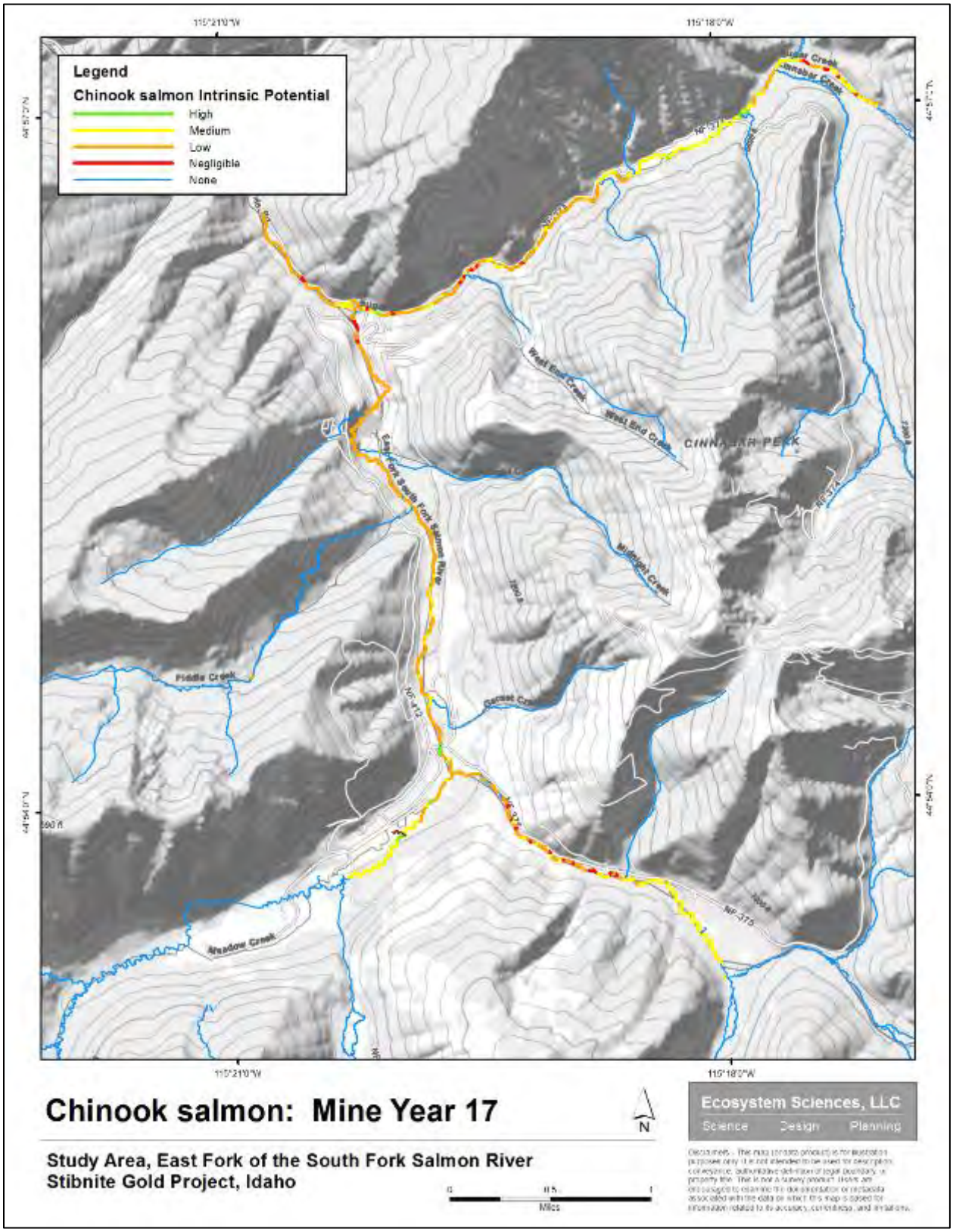

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Chinook salmon: Mine Year 12
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
Miles
Ecosystem Sciences, LLC
Science Design Planning
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
Garnet Creek
Cinnabar Creek
East Fork South Fork Salmon River

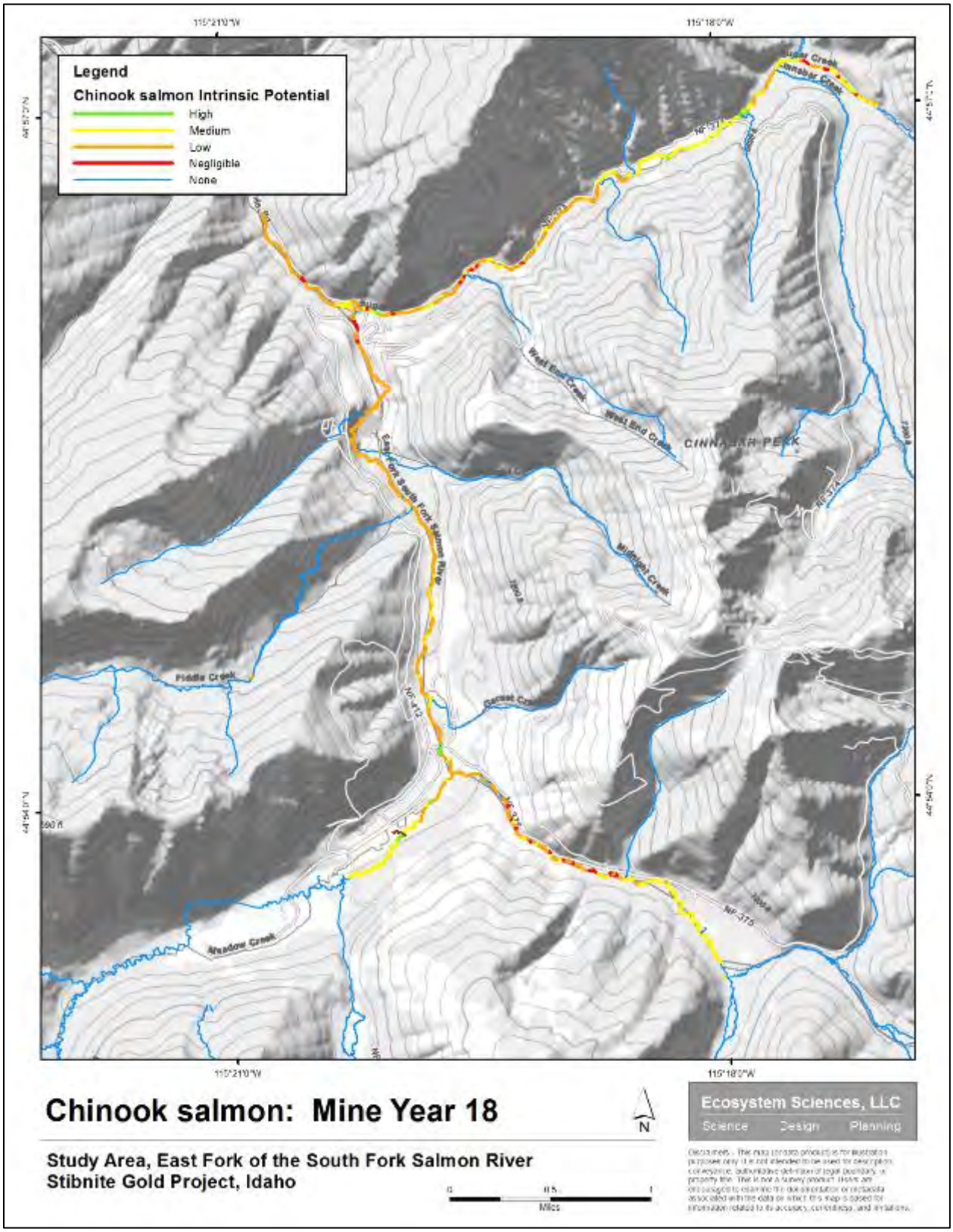

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
East Fork South Fork Salmon River
Chinook salmon: Mine Year 13
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

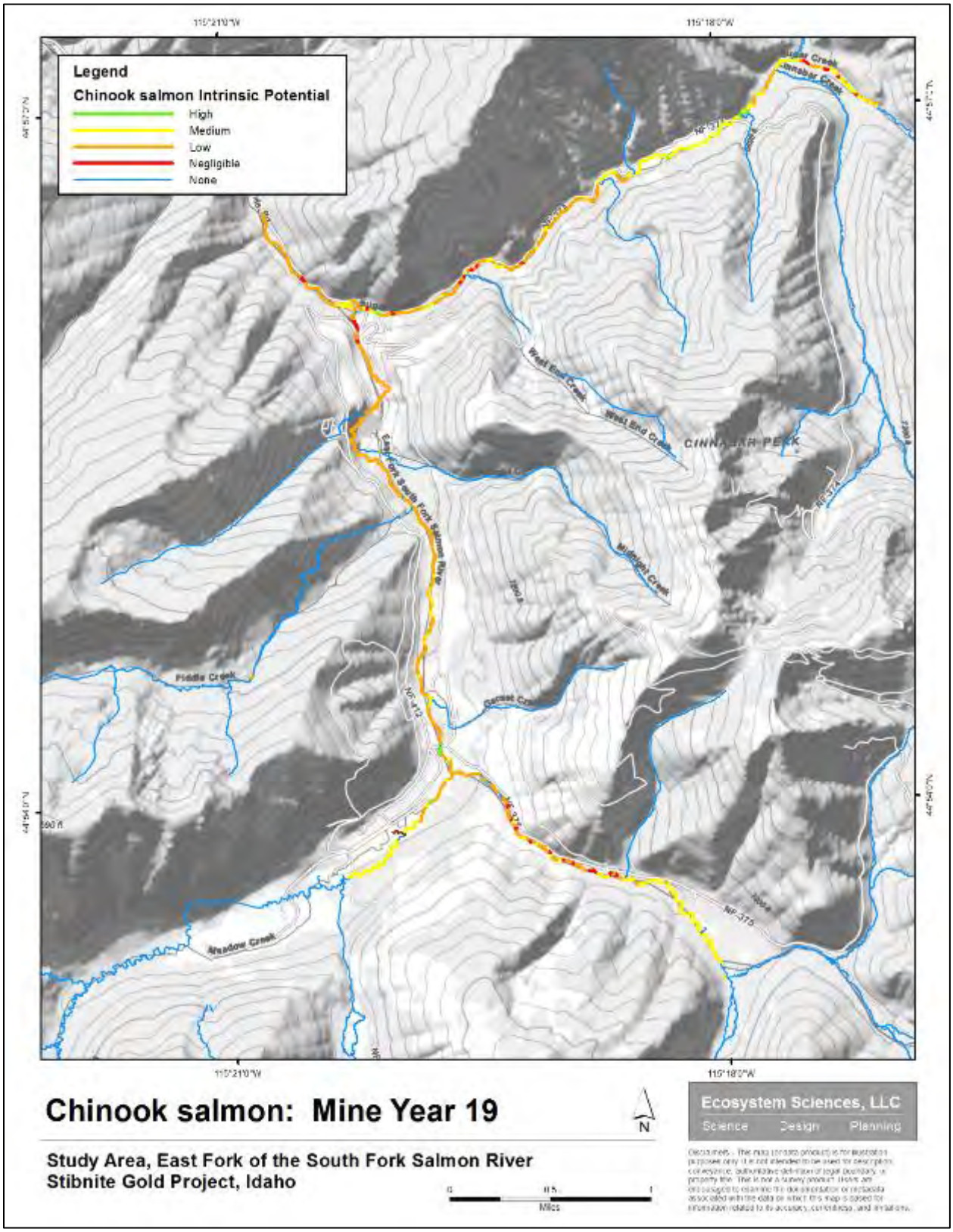

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Chinook salmon: Mine Year 14
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
Miles
Ecosystem Sciences, LLC
Science Design Planning
CINNABAR PEAK
Fiddle Creek
Shadow Creek
Midnight Creek
West End Creek
Garnet Creek
Cinnabar Creek
East Fork South Fork Salmon River

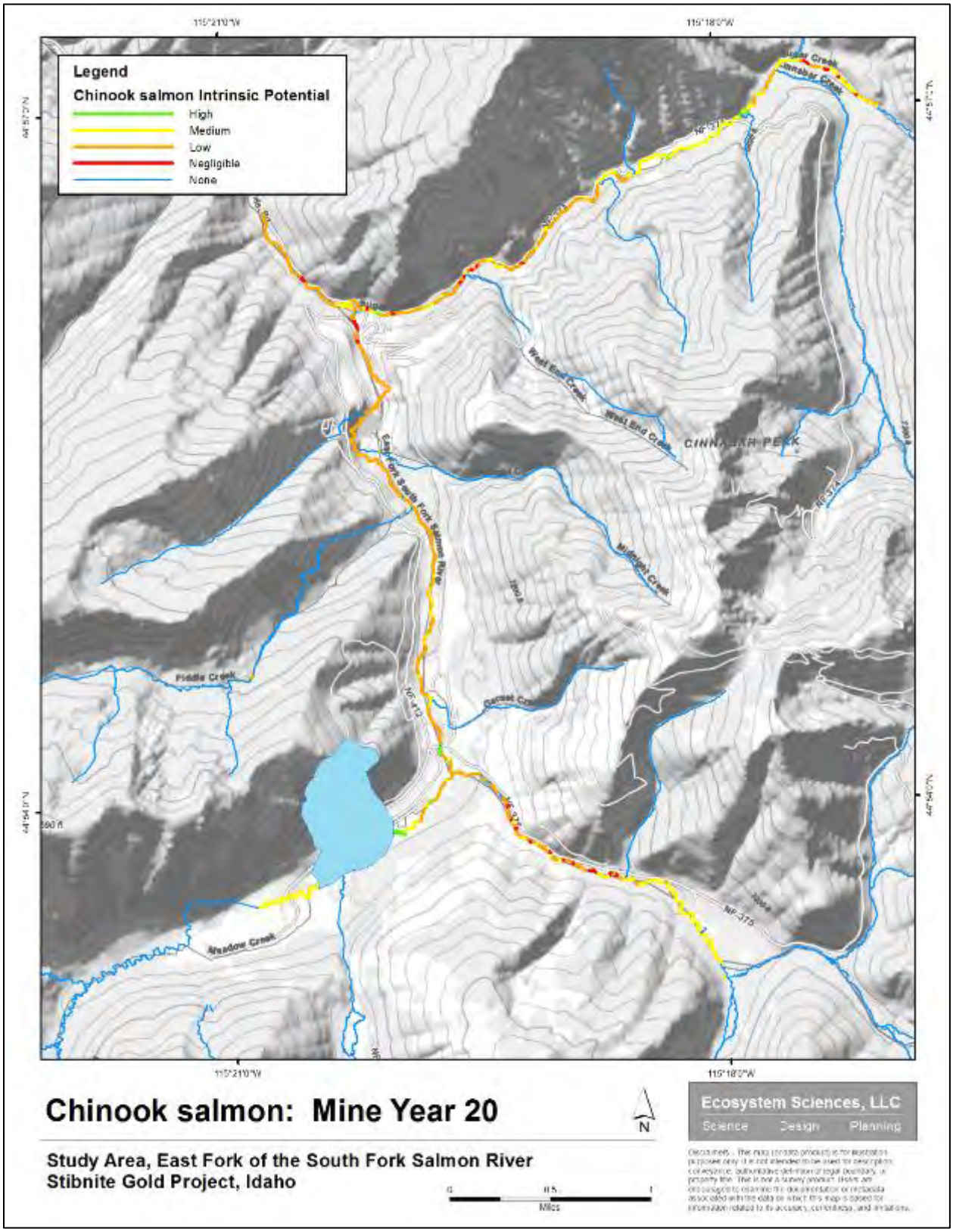

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
Chinook salmon: Mine Year 15
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

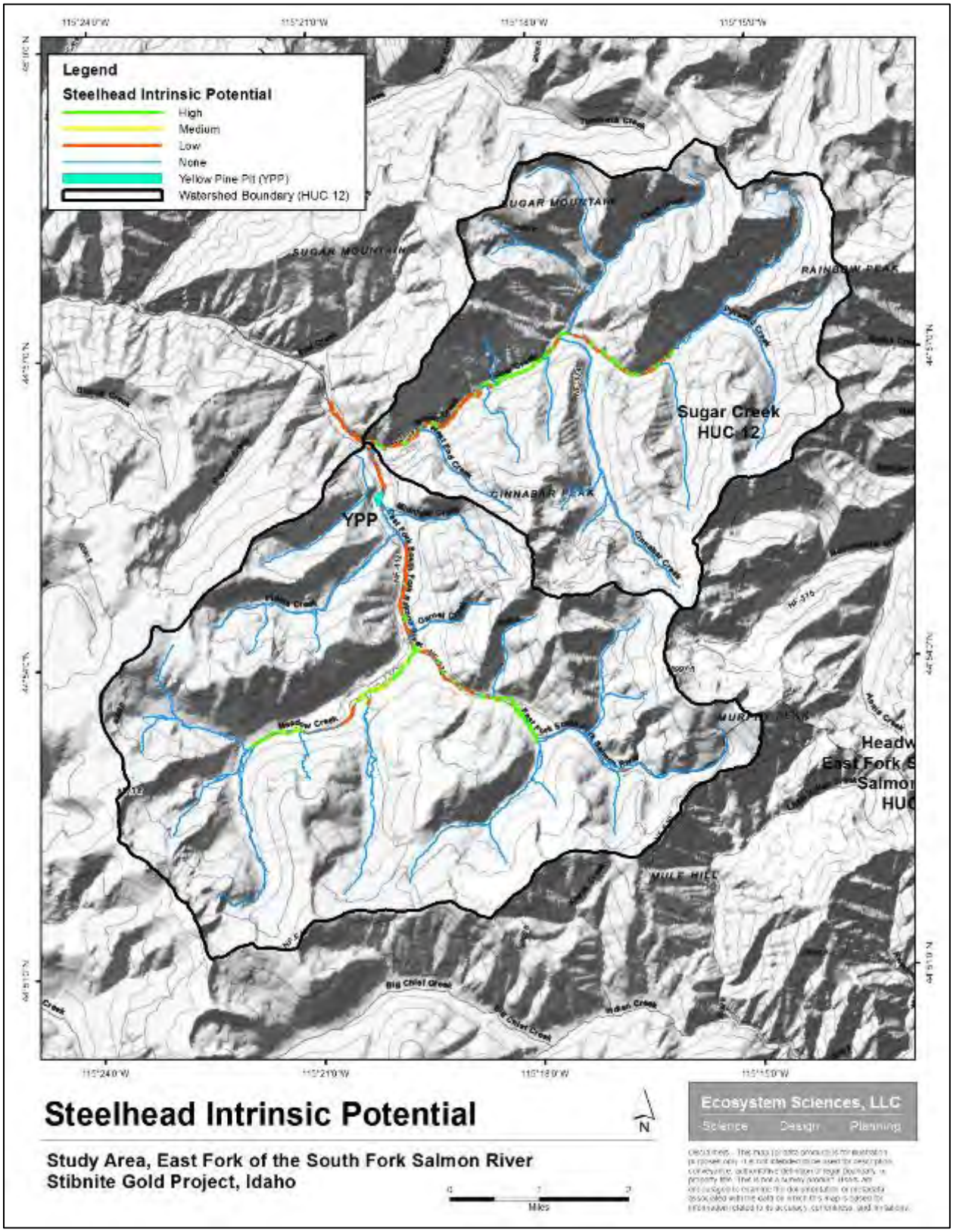

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
Garnet Creek
East Fork South Fork Salmon River
Chinook salmon: Mine Year 16
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

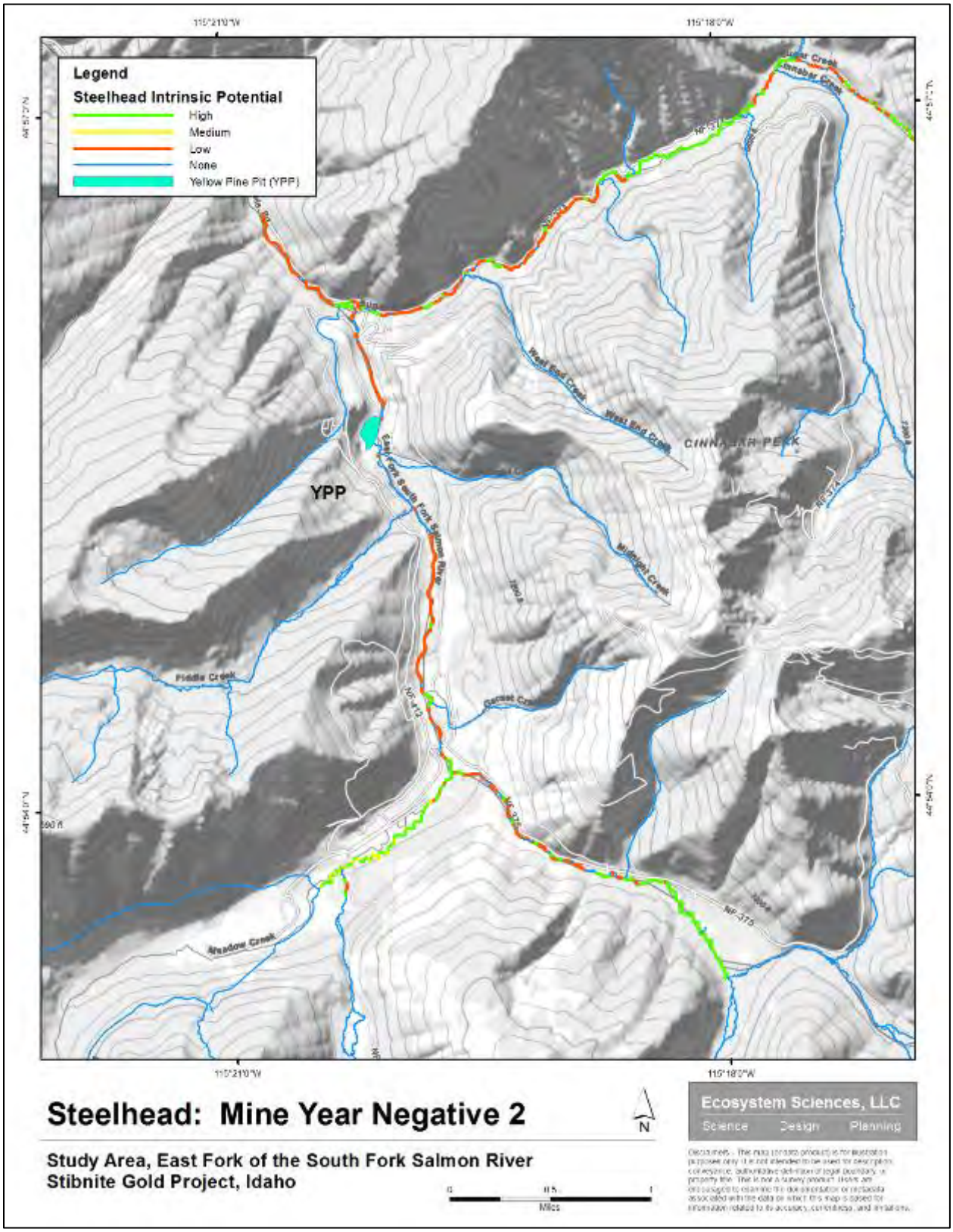

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Chinook salmon: Mine Year 17
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
Miles
Ecosystem Sciences, LLC
Science Design Planning
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Meadow Creek
East Fork South Fork Salmon River

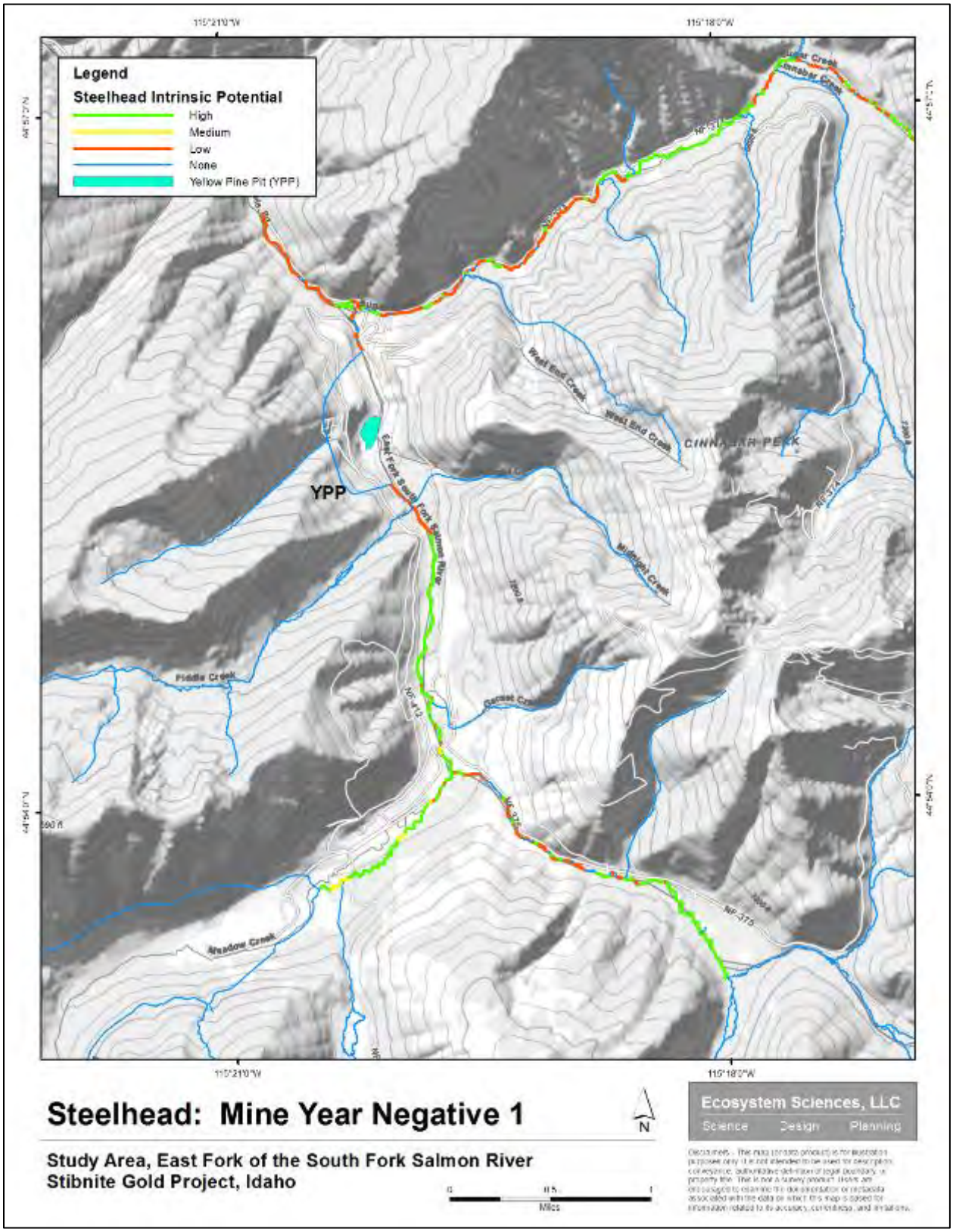

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
115°21'0"W
115°18'0"W
44°57'0"N
44°54'0"N
Fiddle Creek
Meadow Creek
Garnet Creek
Midnight Creek
West End Creek
CINNABAR PEAK
NF-413
NF-374
NF-375
Chinook salmon: Mine Year 18
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

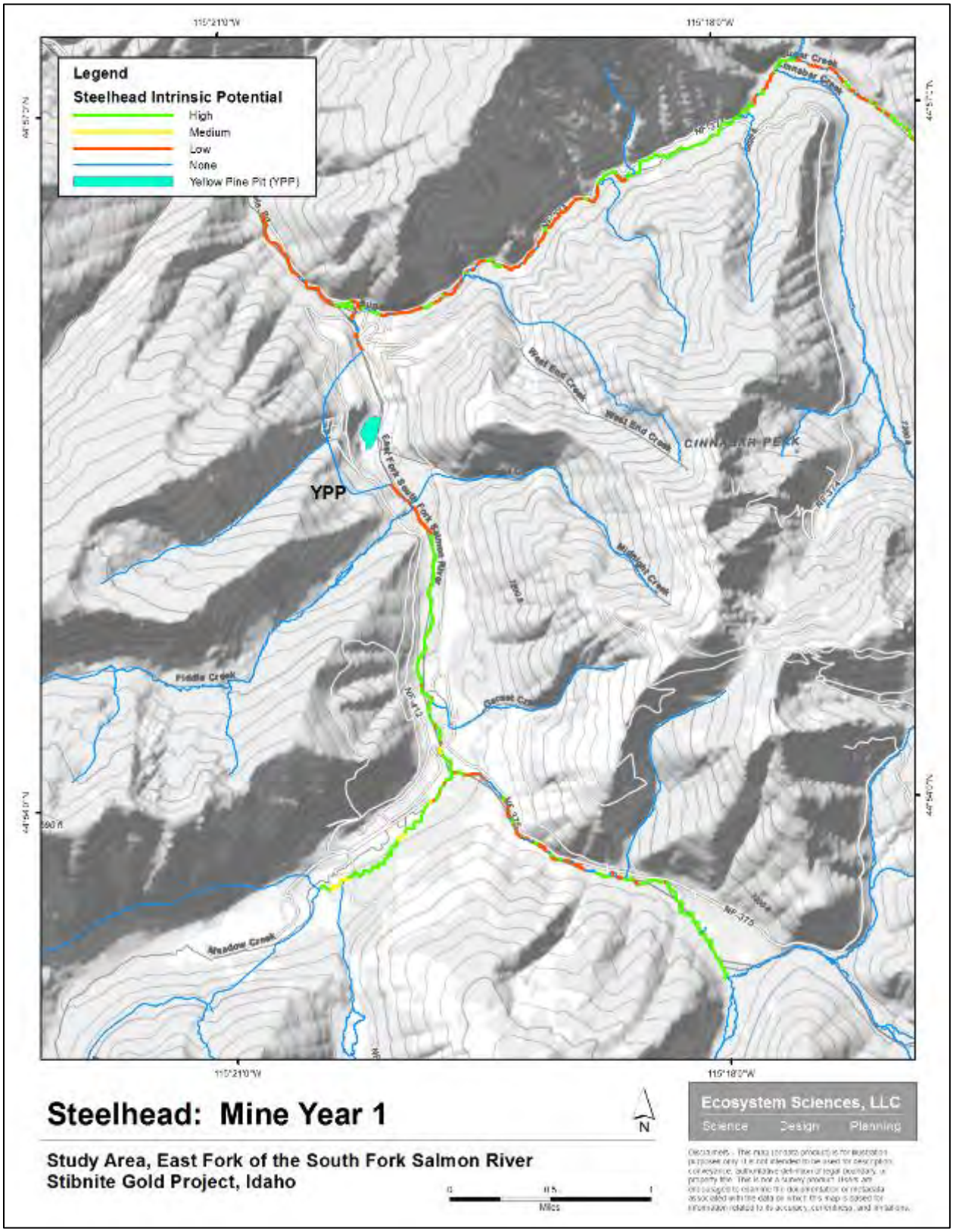

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Fiddle Creek
Shadow Creek
West End Creek
Midnight Creek
CINNABAR PEAK
Chinook salmon: Mine Year 19
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

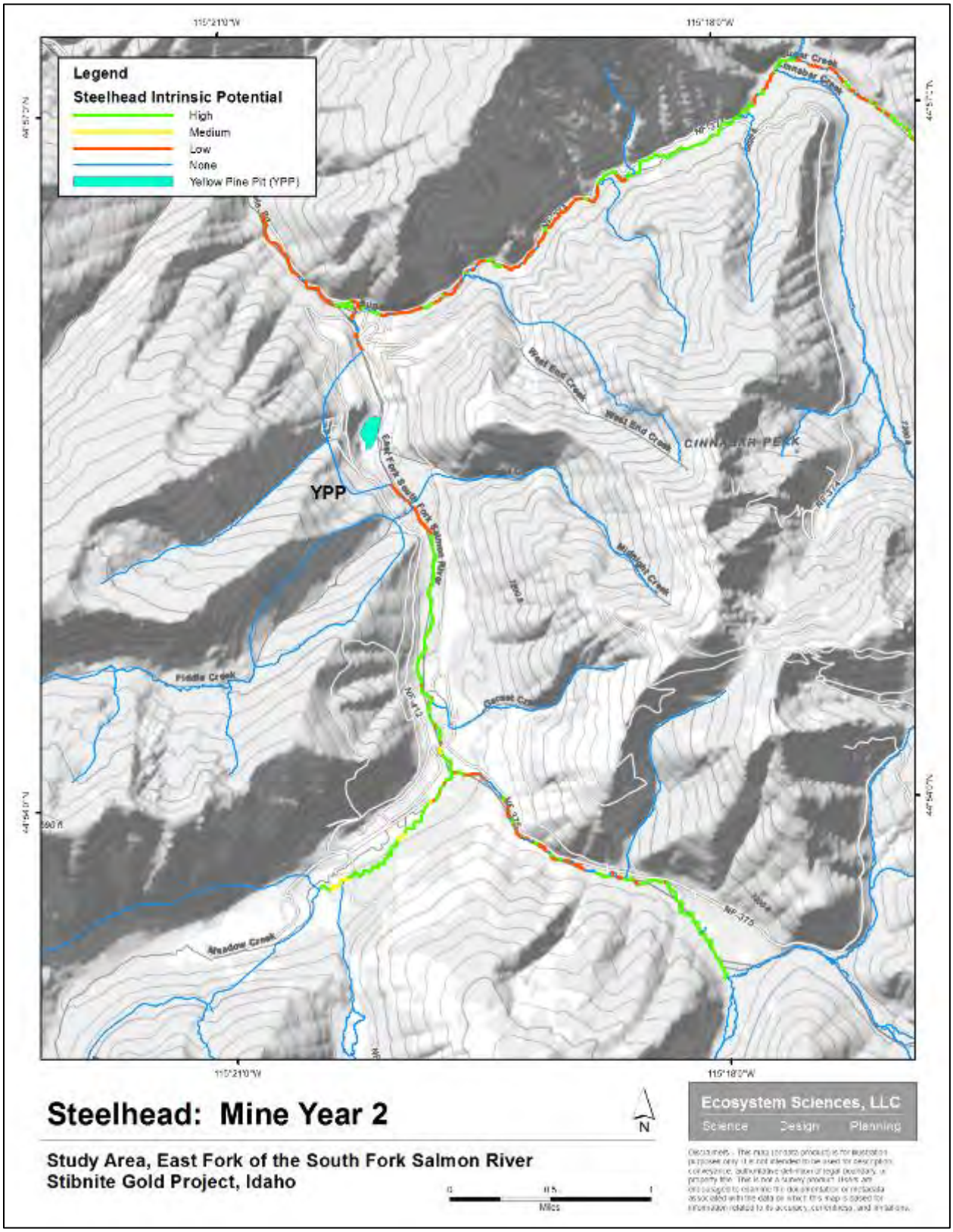

Legend
Chinook salmon Intrinsic Potential
High
Medium
Low
Negligible
None
Chinook salmon: Mine Year 20
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning
West End Creek
CINNABAR PEAK
Midnight Creek
Fiddle Creek
Shadow Creek
NF-374
NF-375

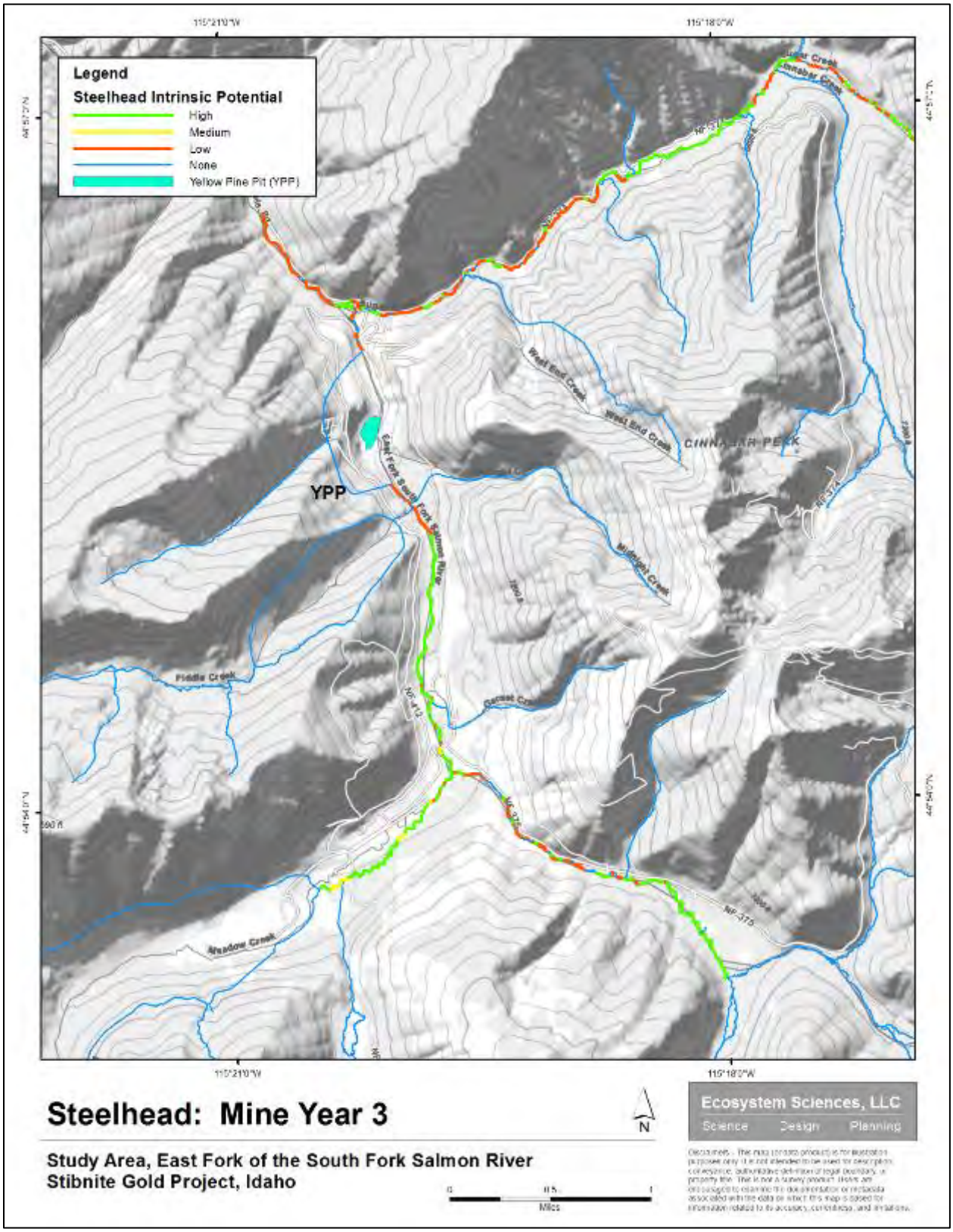

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
Watershed Boundary (HUC 12)
Sugar Creek
HUC 12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
RAINBOW PEAK
MULE HILL
Steelhead Intrinsic Potential
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

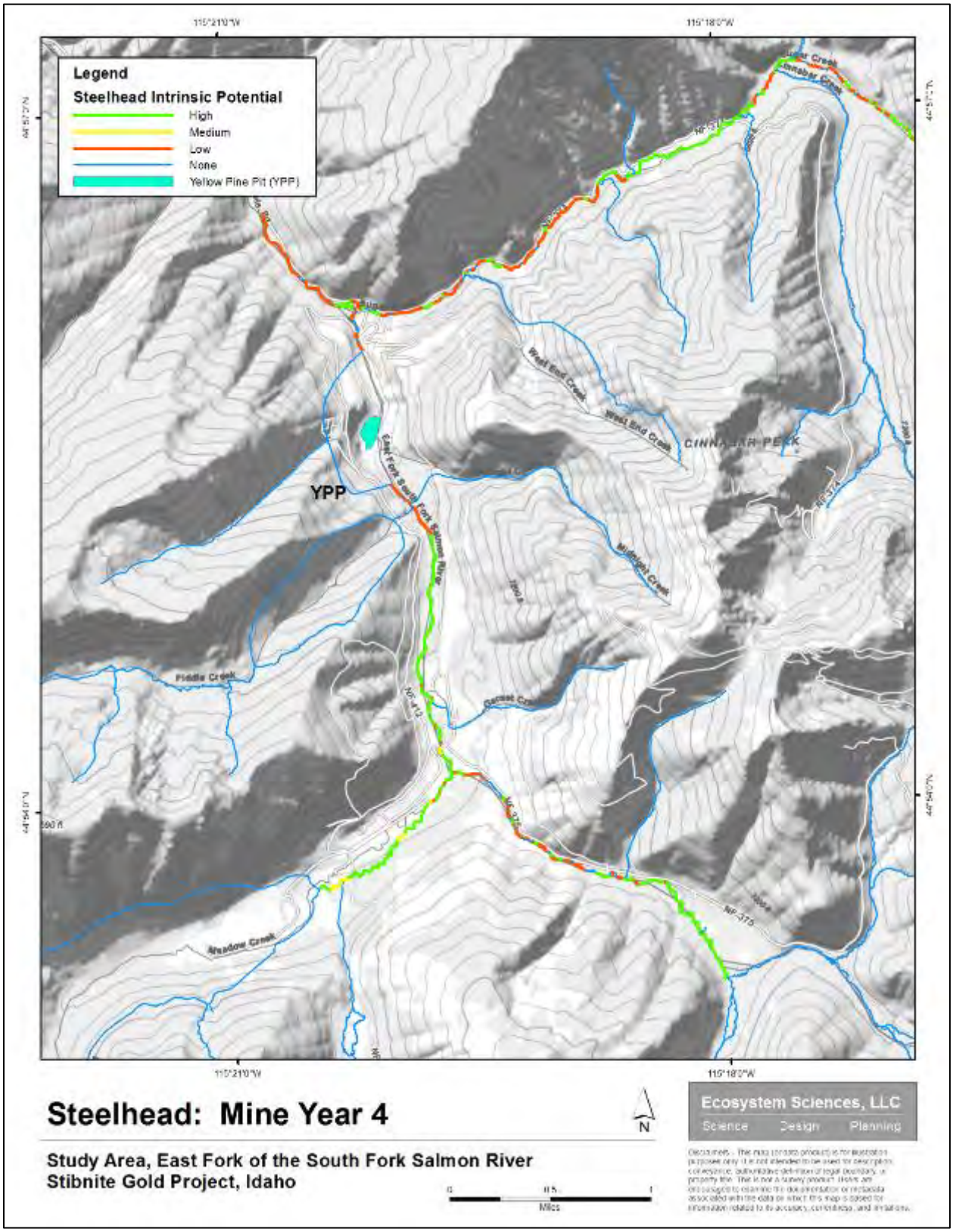

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Garnet Creek
Fiddle Creek
Meadow Creek
Cinnabar Creek
NF-413
NF-374
NF-375
Steelhead: Mine Year Negative 2
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

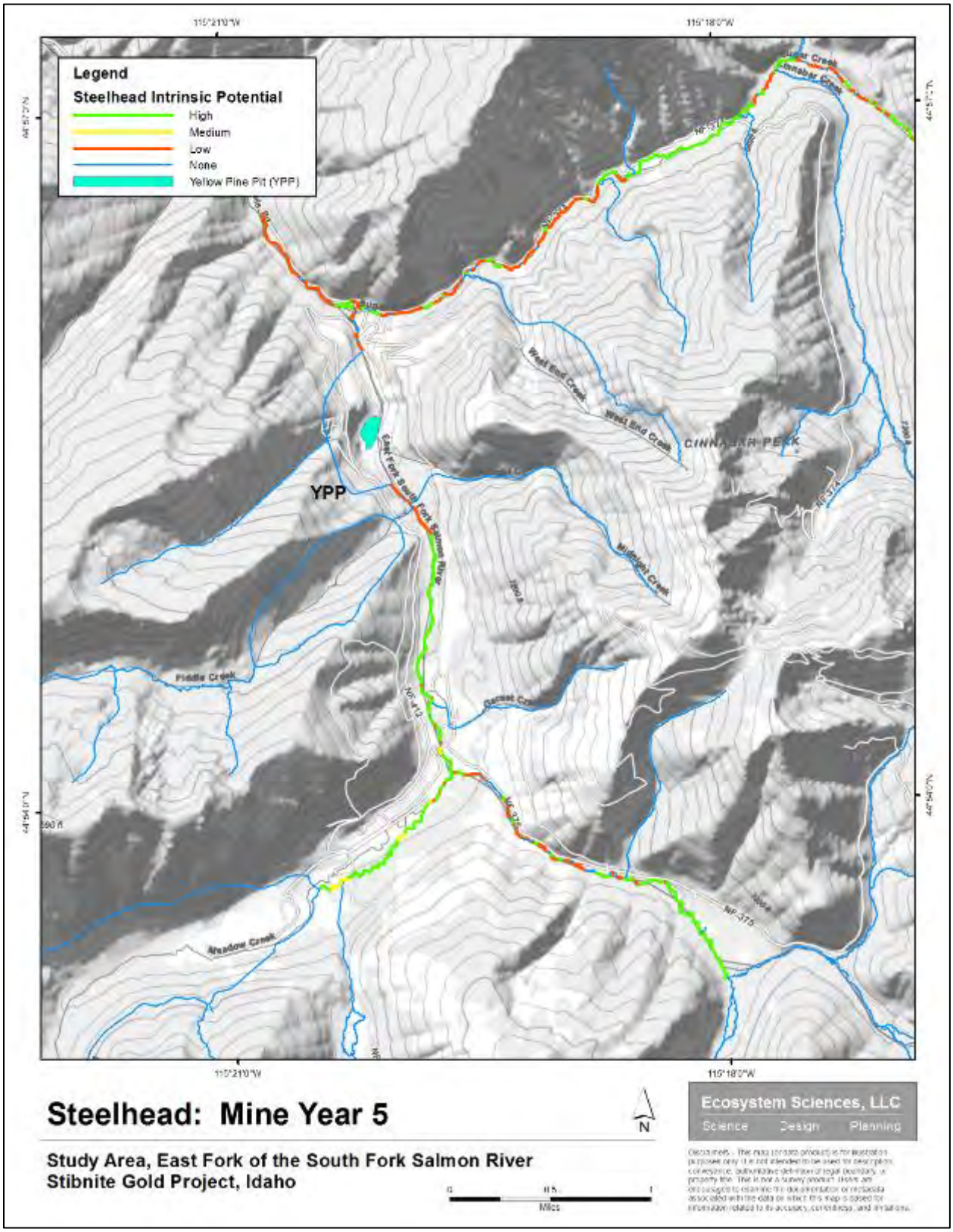

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
Steelhead: Mine Year Negative 1
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

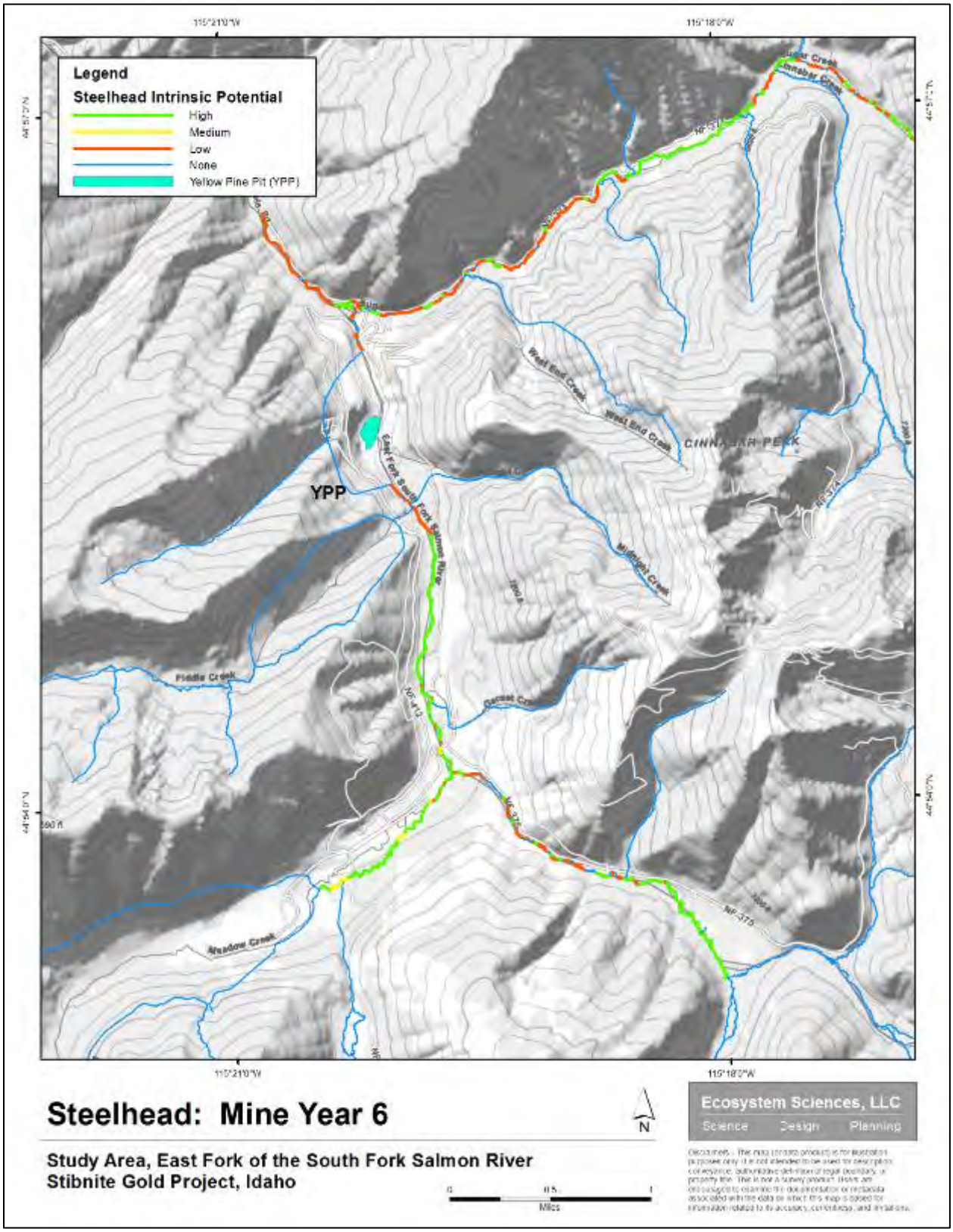

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 1
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

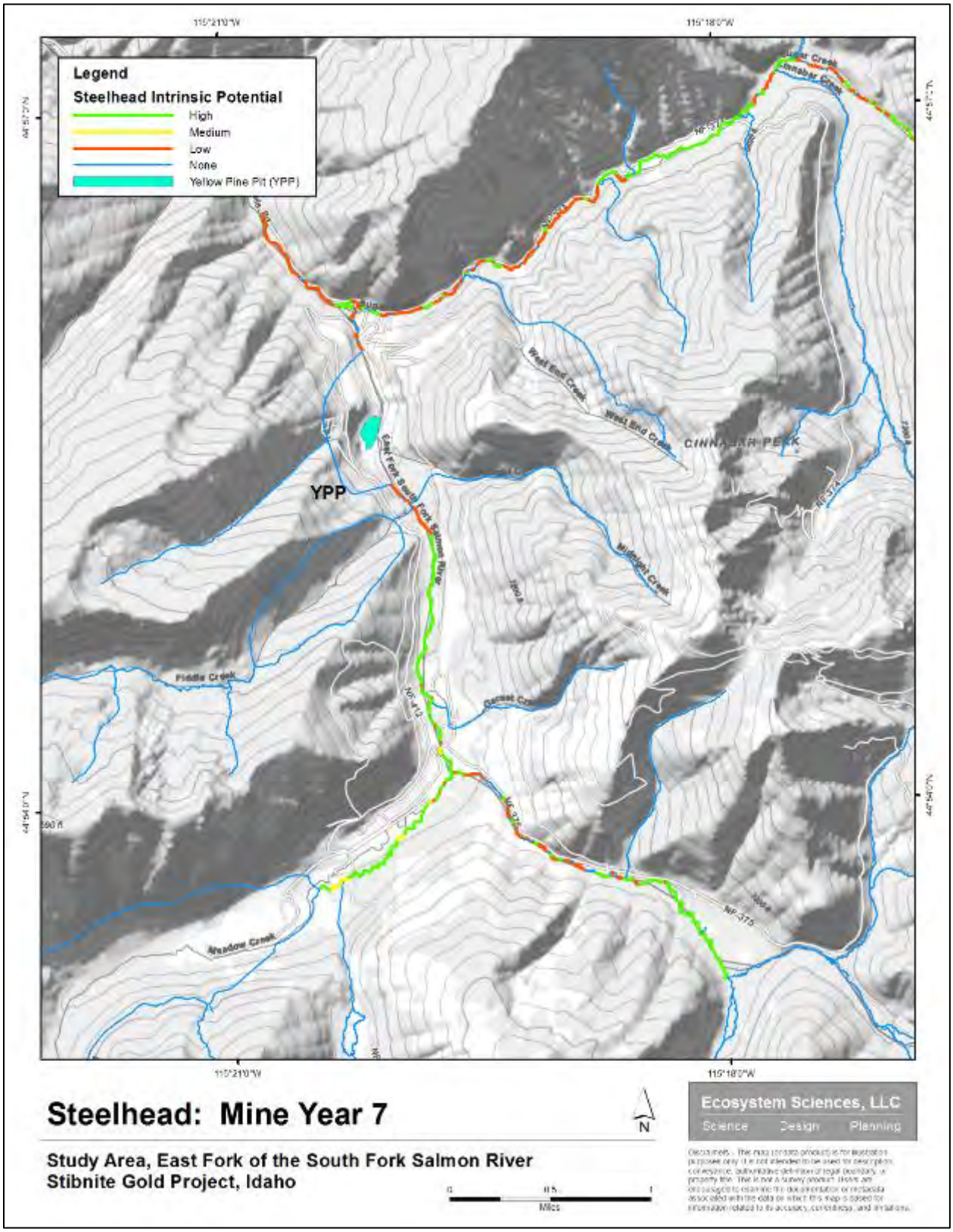

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 2
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

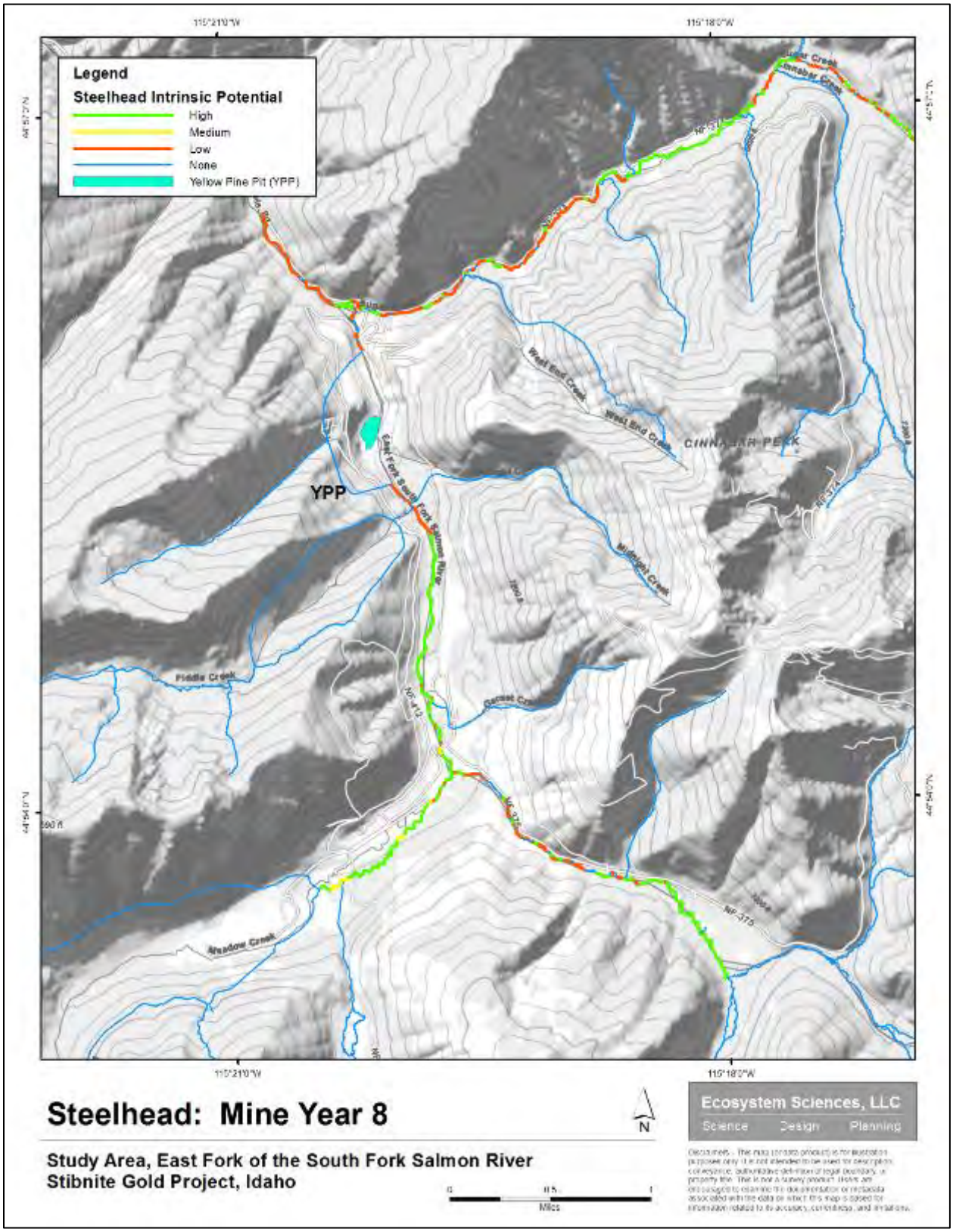

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Meadow Creek
Steelhead: Mine Year 3
Study Area, East Fork of the South South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

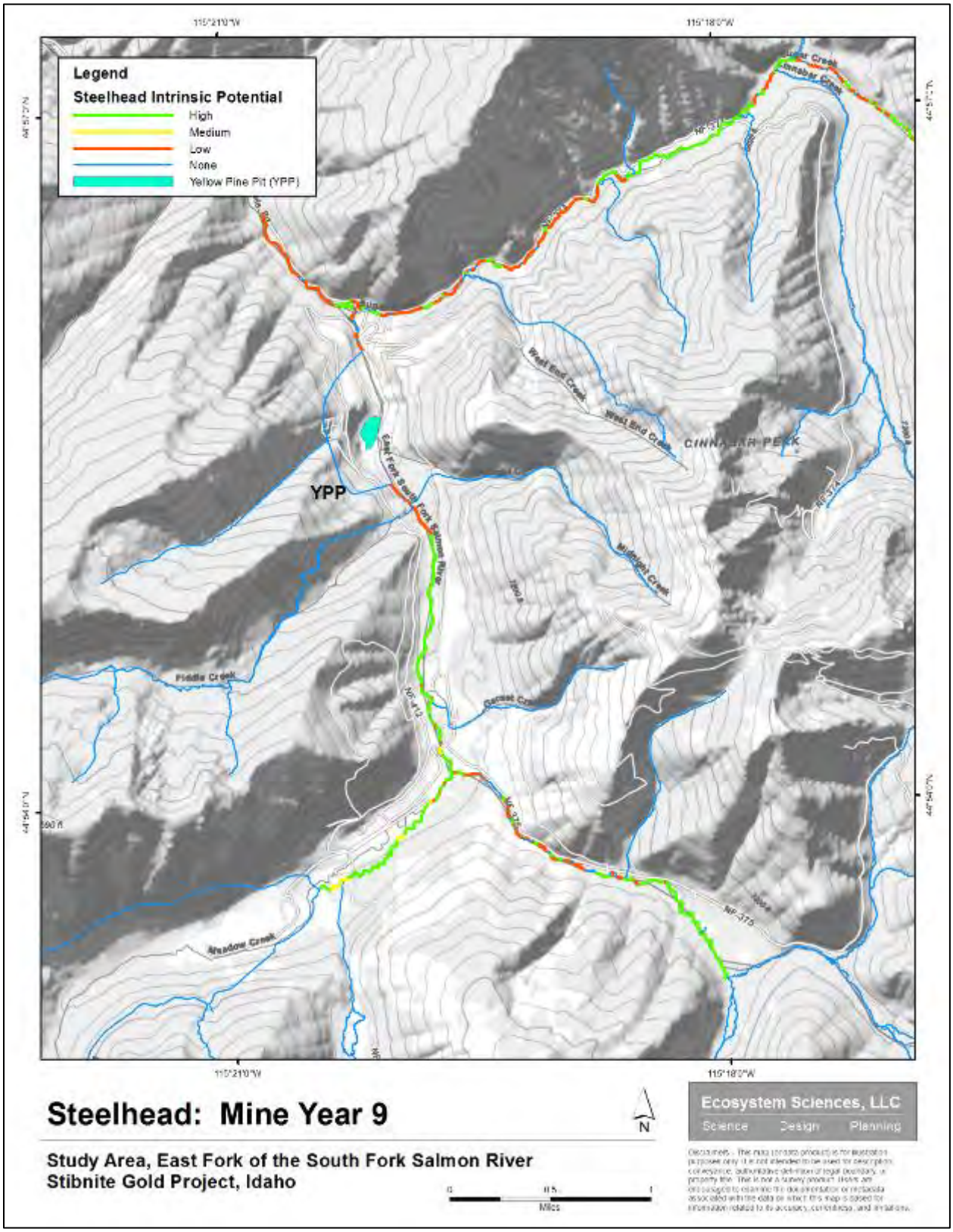

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
East Fork South Fork Salmon River
West End Creek
CINNABAR PEAK
Midnight Creek
Fiddle Creek
Meadow Creek
Steelhead: Mine Year 4
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

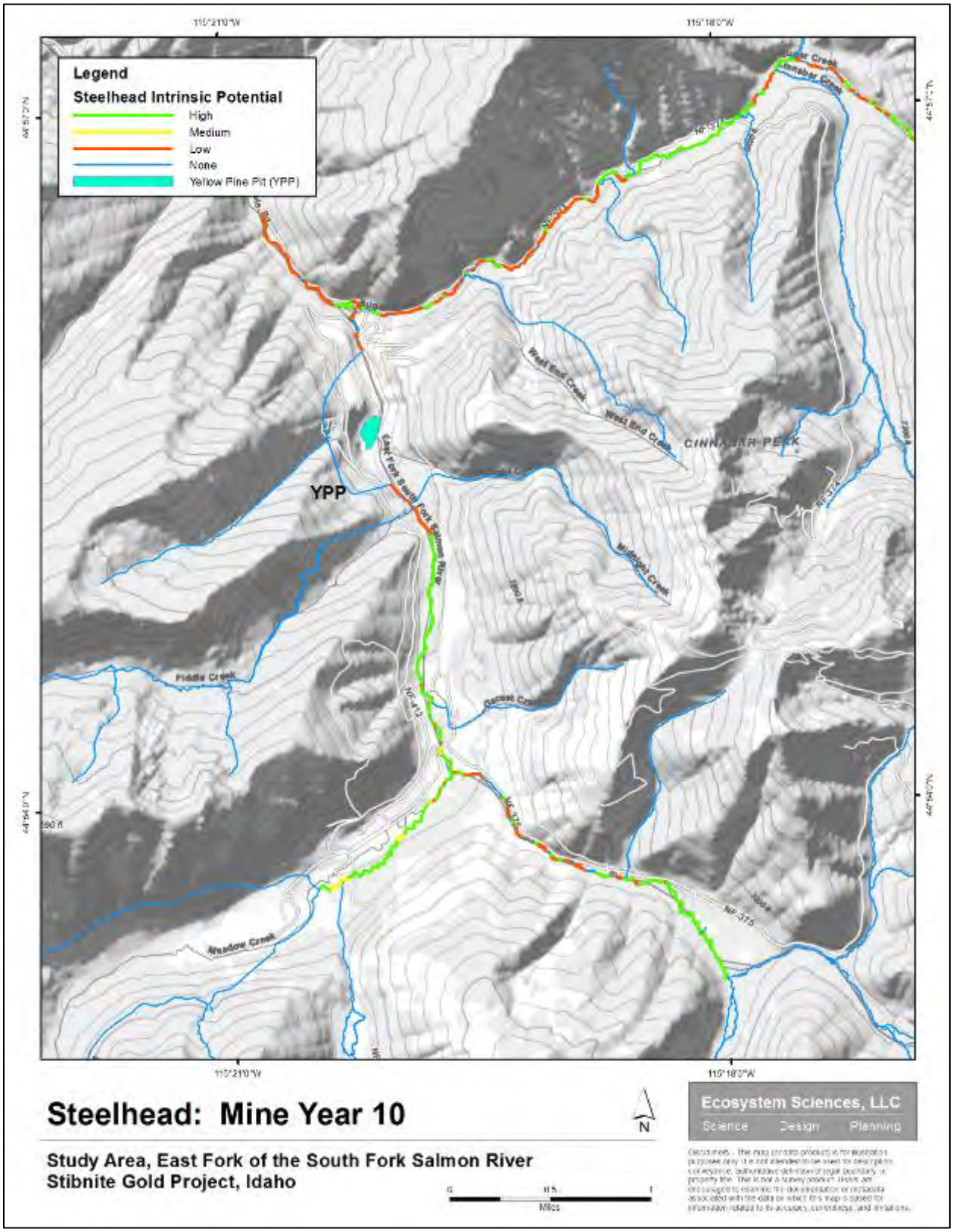

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 5
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

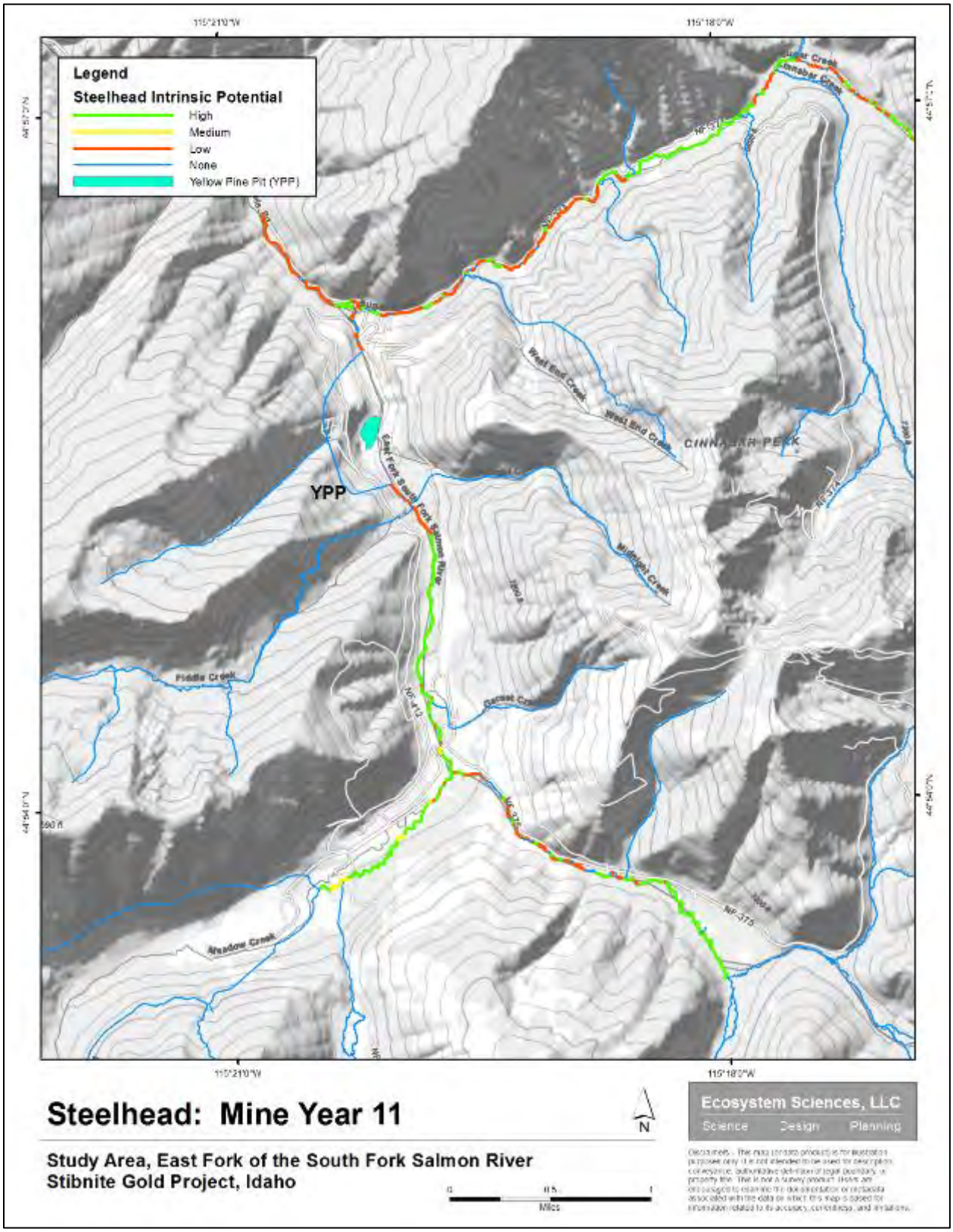

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 6
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

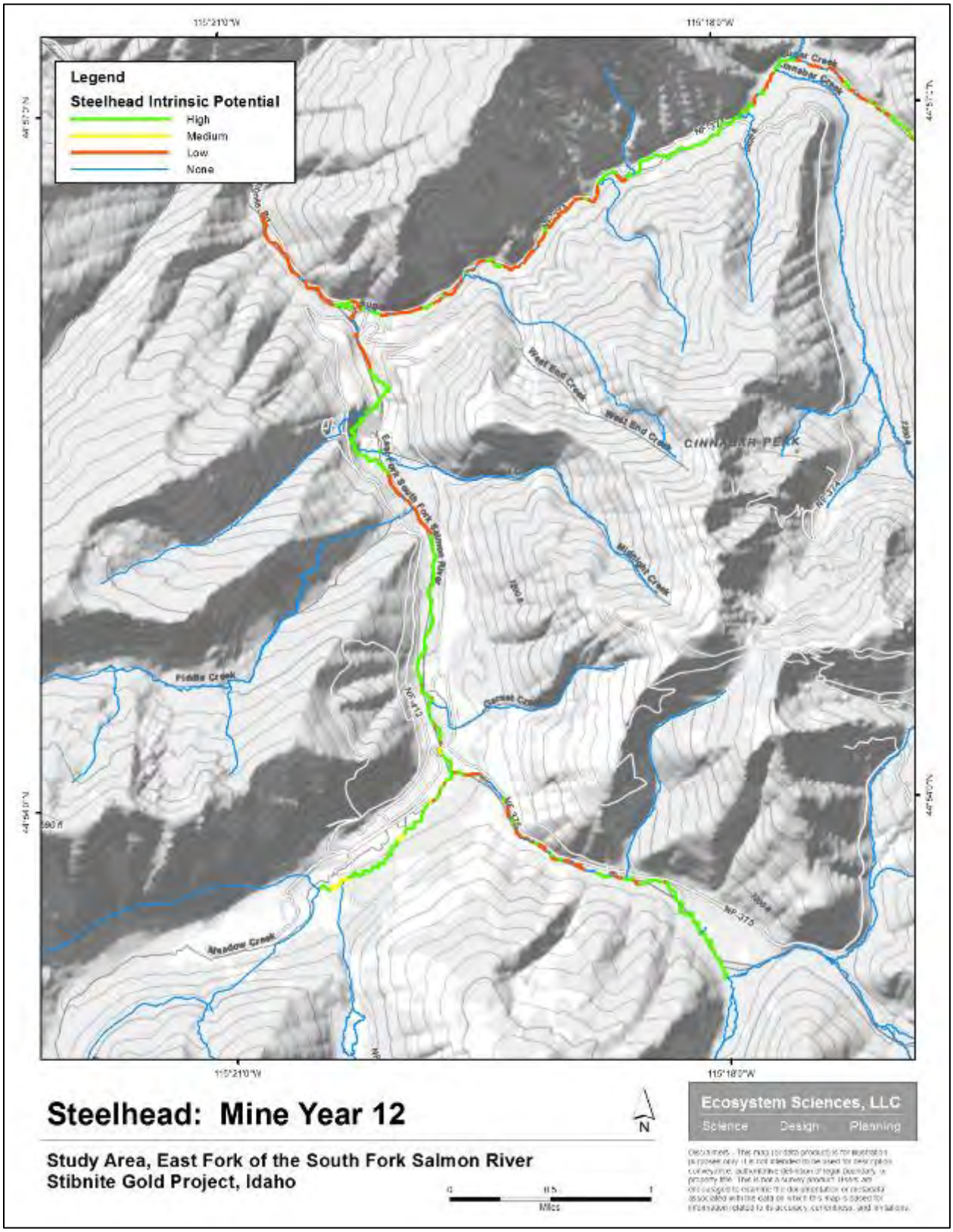

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 7
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

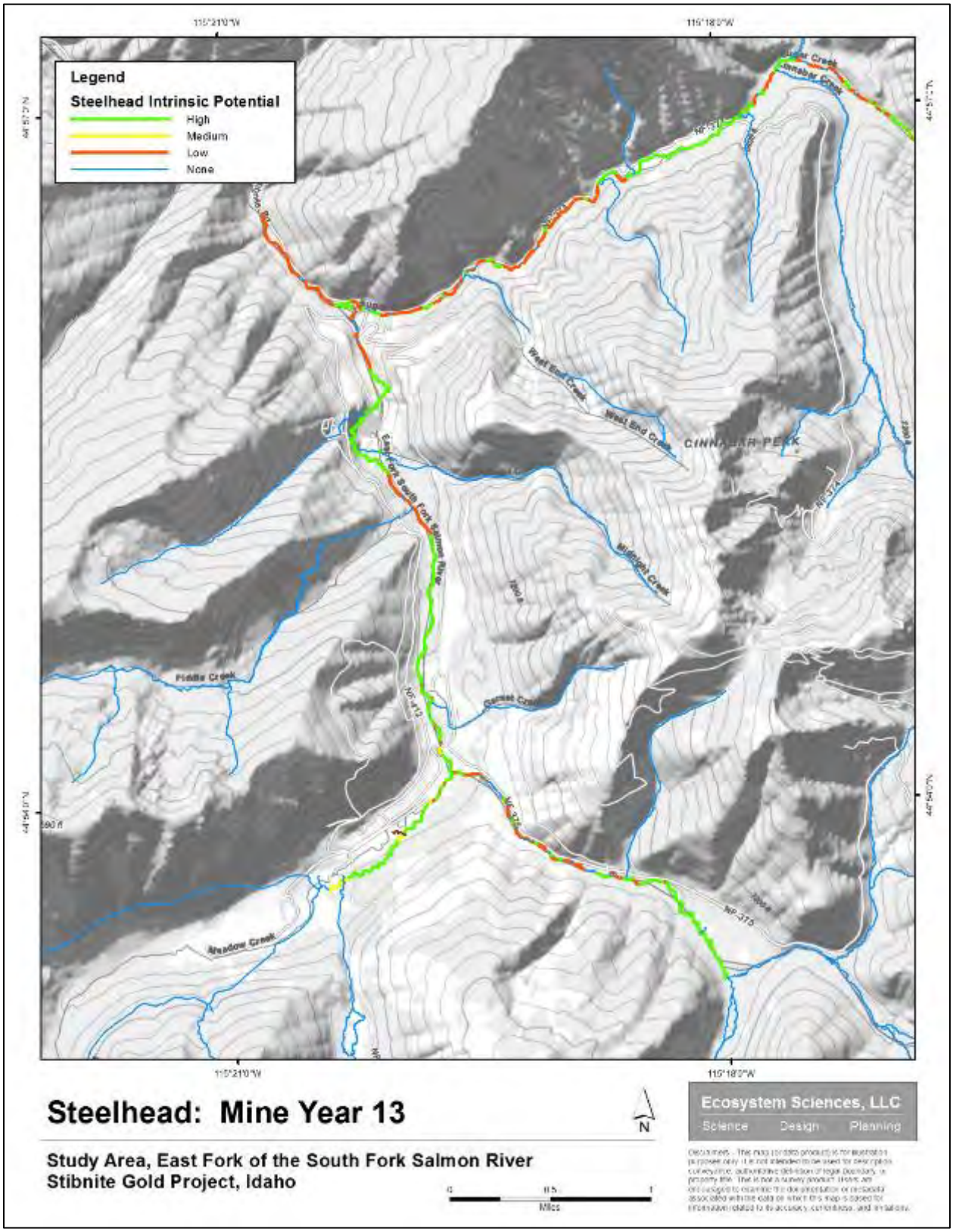

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
East Fork South Fork Salmon River
West End Creek
CINNABAR PEAK
Midnight Creek
Fiddle Creek
Meadow Creek
Steelhead: Mine Year 8
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

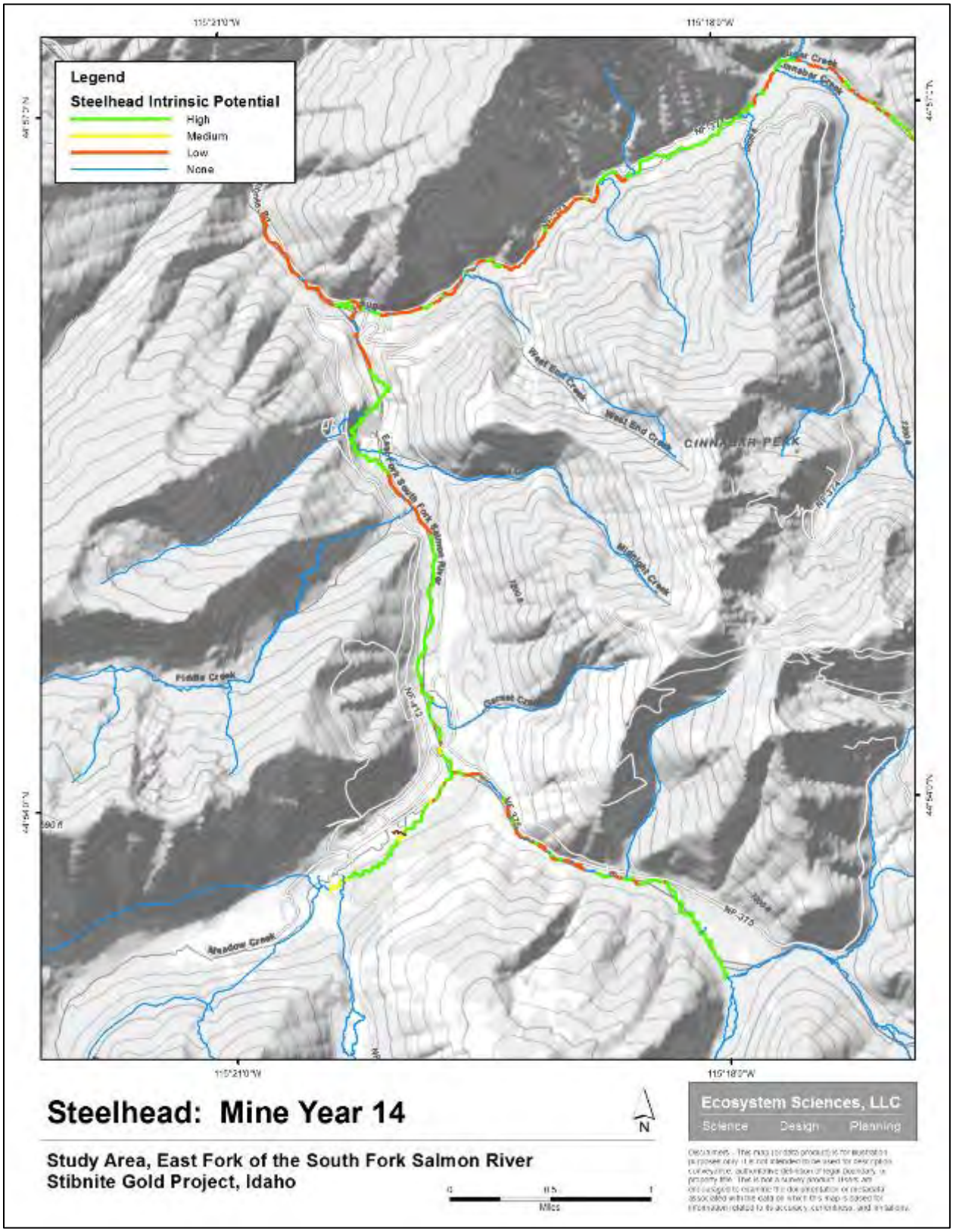

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Shadow Creek
Steelhead: Mine Year 9
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

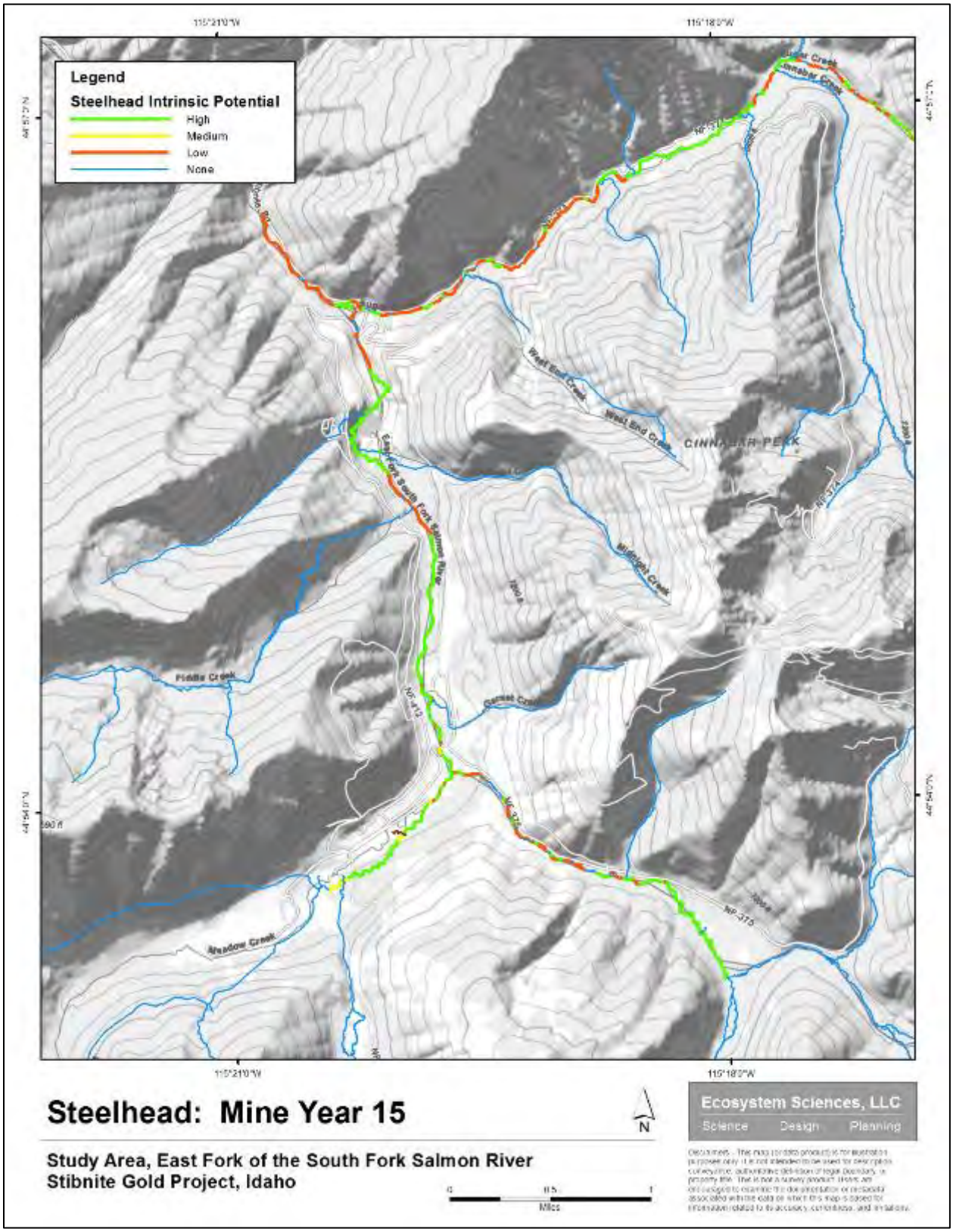

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
East Fork South Fork Salmon River
West End Creek
Midnight Creek
Fiddle Creek
Meadow Creek
Steelhead: Mine Year 10
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

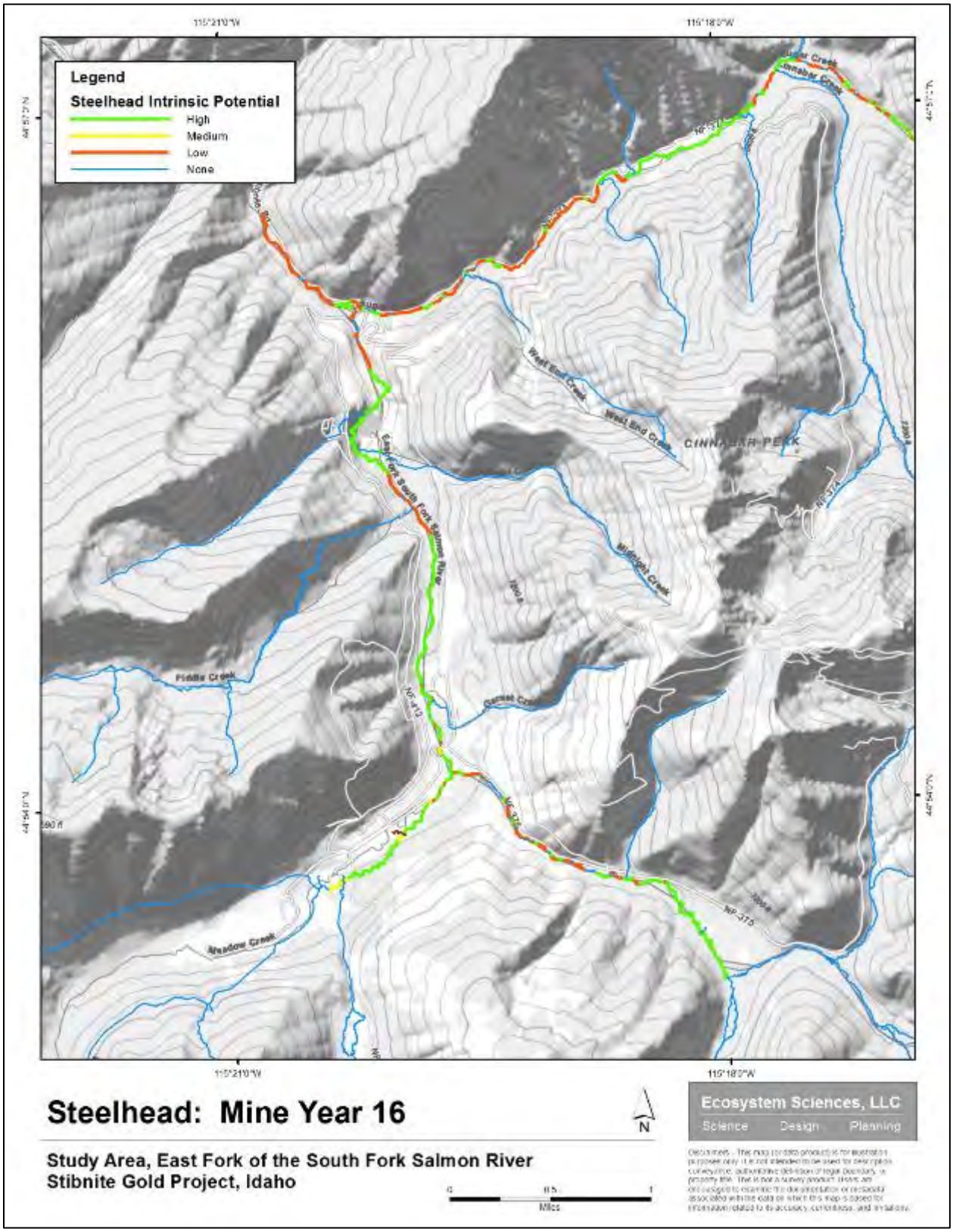

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
Yellow Pine Pit (YPP)
YPP
CINNABAR PEAK
West End Creek
East Fork South Fork Salmon River
Midnight Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Steelhead: Mine Year 11
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

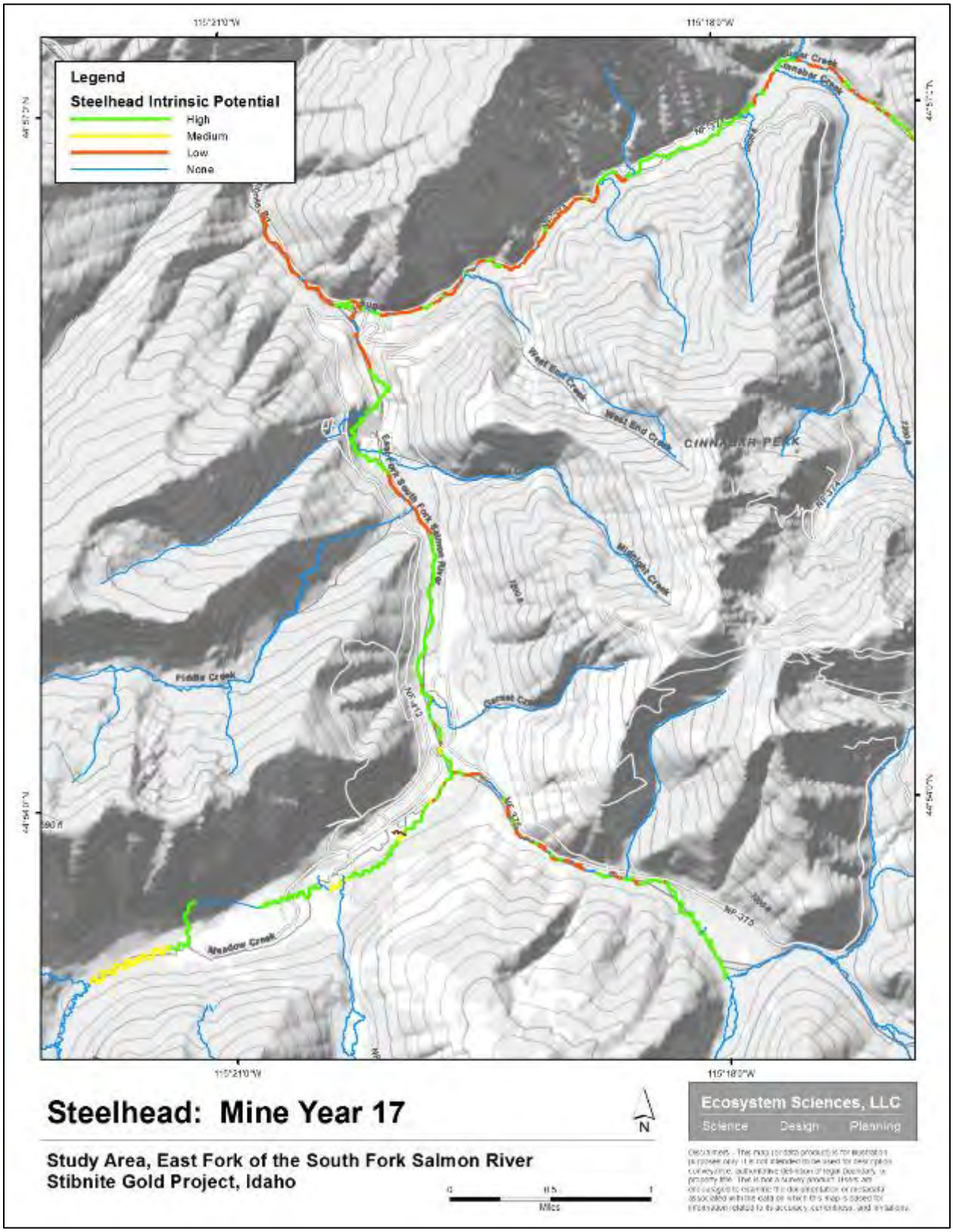

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
East Fork South Fork Salmon River
Steelhead: Mine Year 12
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

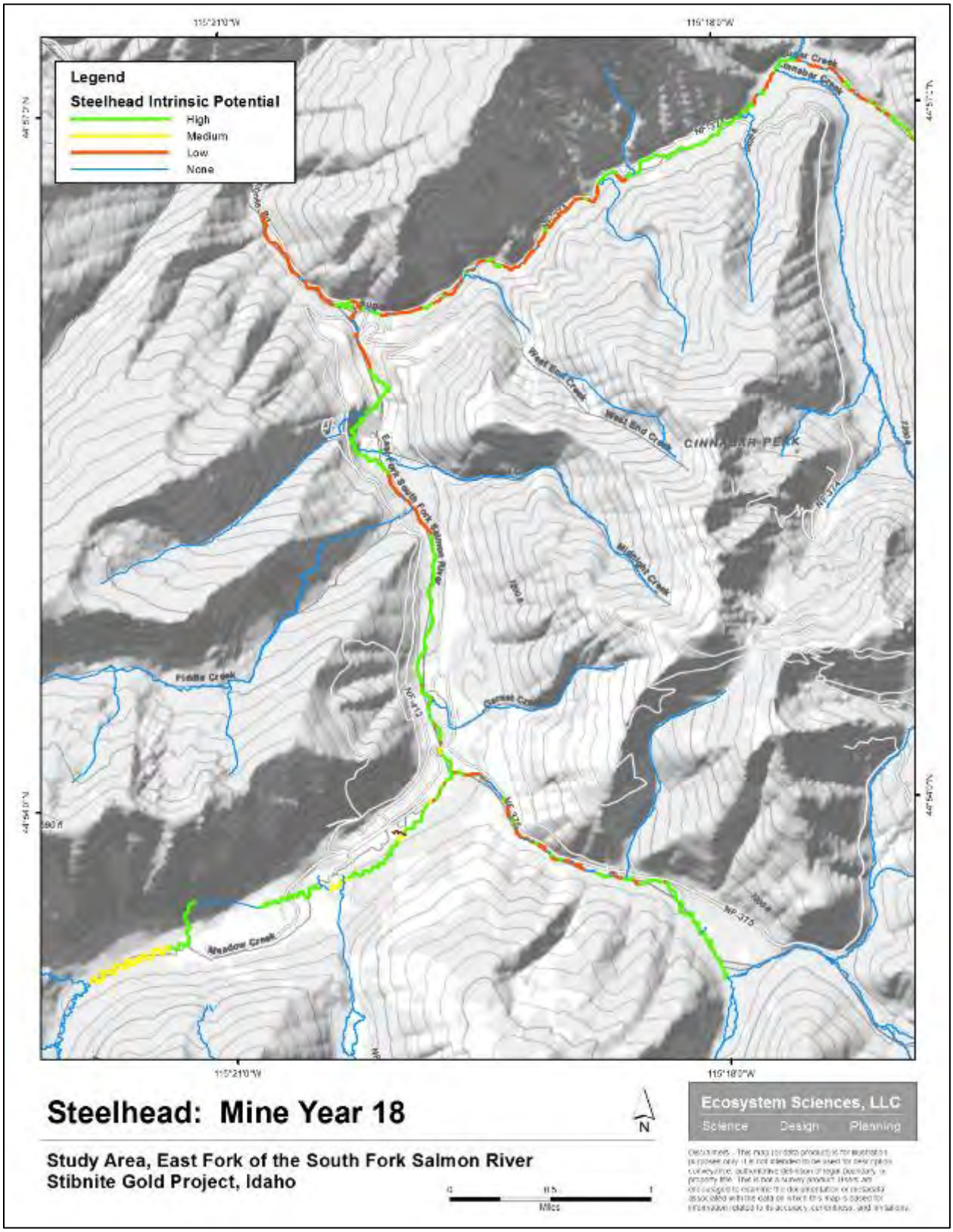

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
East Fork South Fork Salmon River
Steelhead: Mine Year 13
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

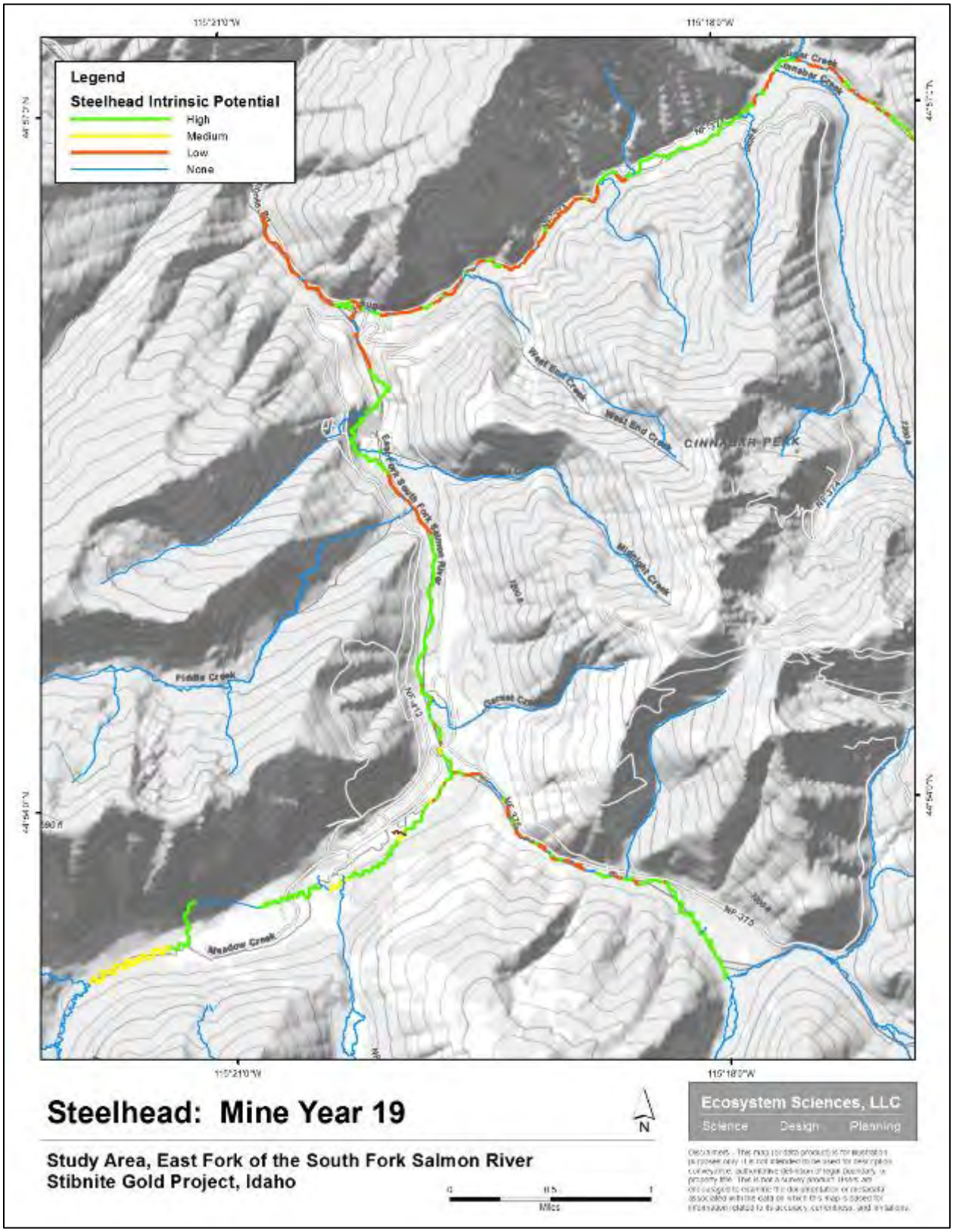

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
Fiddle Creek
Shadow Creek
Midnight Creek
West End Creek
Steelhead: Mine Year 14
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

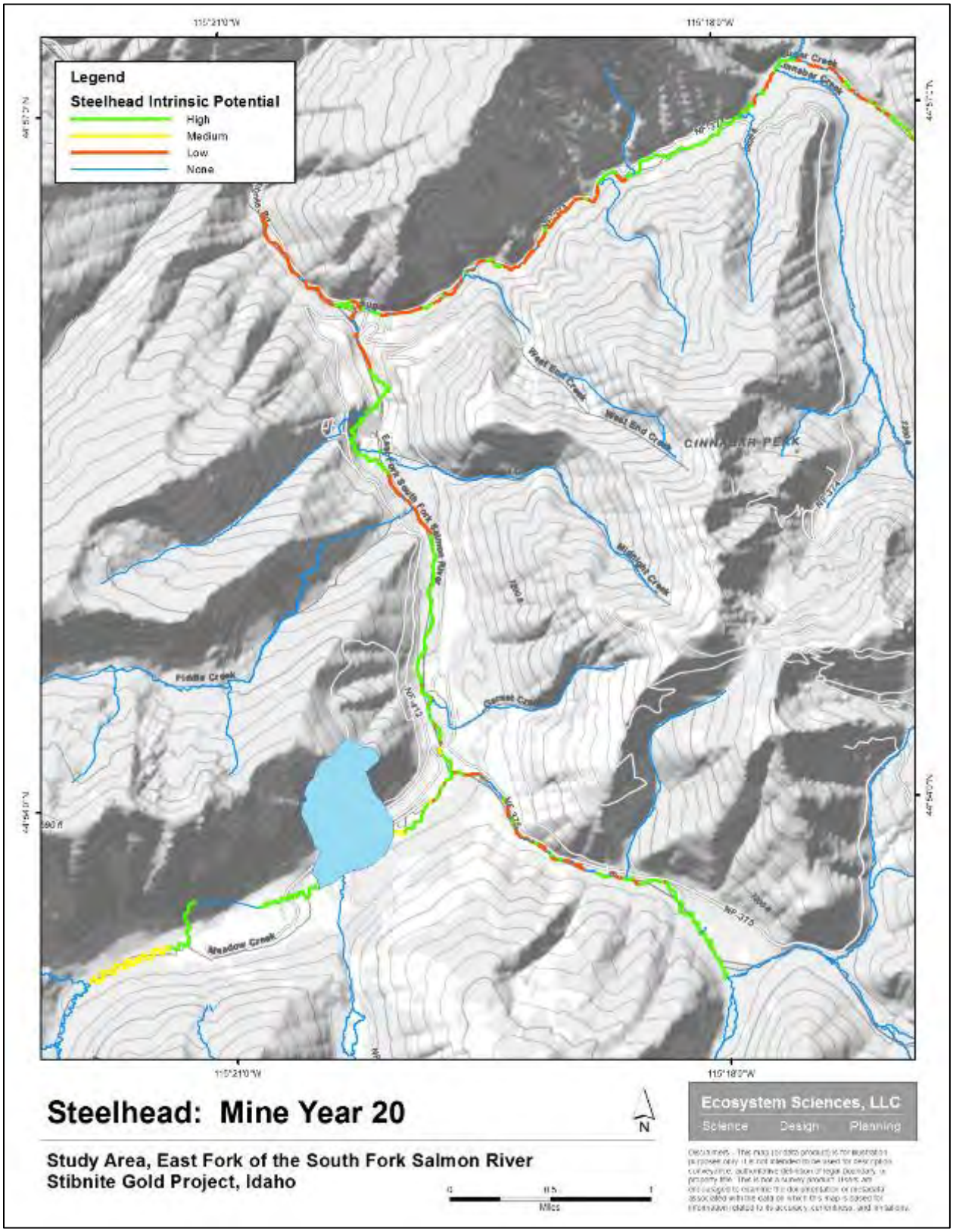

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
East Fork South Fork Salmon River
Steelhead: Mine Year 15
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning


Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
Fiddle Creek
Shadow Creek
Midnight Creek
West End Creek
Steelhead: Mine Year 16
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning


Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
Fiddle Creek
Shadow Creek
West End Creek
Midnight Creek
Garnet Creek
Steelhead: Mine Year 17
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

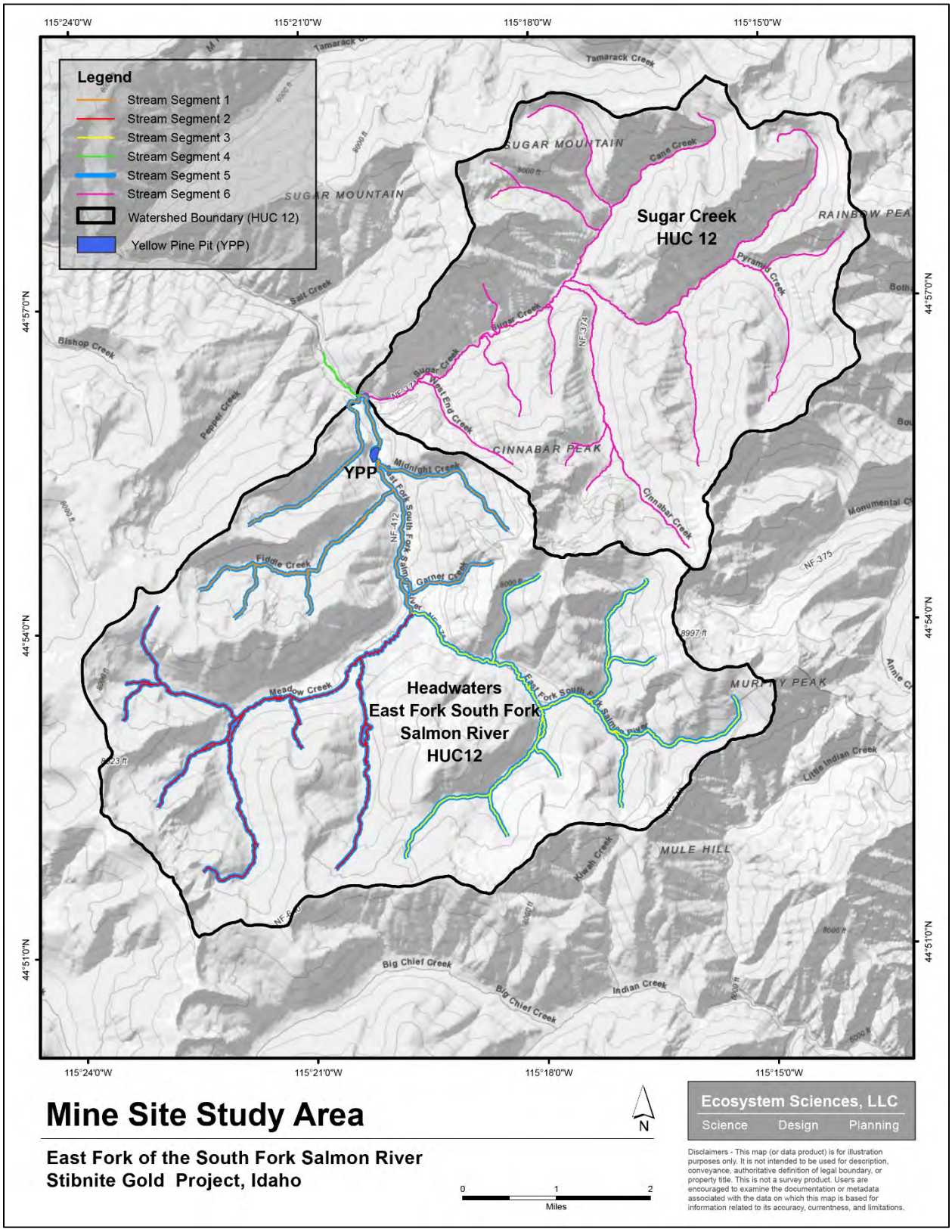

Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
Fiddle Creek
Meadow Creek
Steelhead: Mine Year 18
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning


Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
Fiddle Creek
Shadow Creek
West End Creek
Midnight Creek
Garnet Creek
Steelhead: Mine Year 19
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning


Legend
Steelhead Intrinsic Potential
High
Medium
Low
None
CINNABAR PEAK
West End Creek
Midnight Creek
Fiddle Creek
Shadow Creek
East Fork South Fork Salmon River
Steelhead: Mine Year 20
Study Area, East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
Miles
Ecosystem Sciences, LLC
Science Design Planning

# APPENDIX B – STREAM SEGMENT DELINEATION AND DESCRIPTION

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Legend
Stream Segment 1
Stream Segment 2
Stream Segment 3
Stream Segment 4
Stream Segment 5
Stream Segment 6
Watershed Boundary (HUC 12)
Yellow Pine Pit (YPP)
Sugar Creek HUC 12
Headwaters East Fork South Fork Salmon River HUC12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
MURRAY PEAK
MULE HILL
RAINBOW PEA
Tamarack Creek
Cane Creek
Pyramid Creek
Salt Creek
Bishop Creek
Pepper Creek
Sugar Creek
West End Creek
Cinnabar Creek
Midnight Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Little Indian Creek
Kiwalt Creek
Big Chief Creek
Indian Creek
NF-374
NF-375
NF-412
115°24'0"W
115°21'0"W
115°18'0"W
115°15'0"W
44°57'0"N
44°54'0"N
44°51'0"N
Mine Site Study Area
East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
0
1
2
Miles
Ecosystem Sciences, LLC
Science Design Planning
Disclaimers - This map (or data product) is for illustration purposes only. It is not intended to be used for description, conveyance, authoritative definition of legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation or metadata associated with the data on which this map is based for information related to its accuracy, currentness, and limitations.

- **Stream segment 1** includes the Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream segment 2** includes the entirety of the Meadow Creek drainage area.
- **Stream segment 3** includes the Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream segment 4** includes the modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream segment 5** covers the entirety of the HUC 12 "Headwaters East Fork South Fork Salmon River" (Figure 1). Stream segment 5 is the summation of stream segments 1, 2, and 3.
- **Stream segment 6** includes the Sugar Creek drainage area, or the HUC 12 "Sugar Creek" (Figure 1).

# APPENDIX C – SFA REACH RESULTS CHINOOK SALMON AND STEELHEAD

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**Table C1. SFA Reach Results for Chinook Salmon Intrinsic Potential during Mine Life for Proposed Action (results are in meters)**

| | | Mine Life Year | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Chinook IP | Baseline | MLG2 | MLG1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| EC0.1 | None | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 |
| EC1 | None | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 |
| EC2 | None | 469.4 | 469.4 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 |
| EC2.1 | None | 580.4 | 580.4 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 |
| EC3 | None | 219.9 | 219.9 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 |
| EC4 | None | 61.5 | 61.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EL1 | None | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| EL2 | None | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 |
| FF0.01 | None | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 |
| FF0.02 | None | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 |
| FF0.03 | None | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 |
| FF0.04 | None | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 |
| FF0.05 | None | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 |
| FF0.06 | None | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 |
| FF0.07 | None | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 |
| FF0.08 | None | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 |
| FF0.09 | None | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 |
| FF0.10 | None | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 |
| FF0.11 | None | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 |
| FF0.12 | Low | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 |
| FF0.13 | Medium | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| FF0.14 | None | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 |
| FF0.15 | Low | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 | 213.0 |
| FF0.16 | Low | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 | 288.3 |
| FF0.17 | None | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |
| FF0.18 | Low | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 | 462.0 |
| FF0.19 | Negligible | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 |
| FF0.20 | None | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 |
| FF0.21 | Low | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| FF0.22 | Negligible | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 | 180.6 |
| FF0.23 | None | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| FF0.24 | None | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 |
| FF0.25 | None | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 |
| FF0.26 | None | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| FF1.1 | Low | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 | 535.9 |
| FF1.2 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.1 | Low | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 |
| LF2.1 | Negligible | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.1 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.2 | Low | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 | 1758.3 |
| LF2.2 | Negligible | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.2 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.3 | Negligible | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.3 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.4 | Negligible | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.4 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.5 | Negligible | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF2.5 | None | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LF3.1 | Low | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 |

| | | Mine Life Year | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Channel IP | Baseline | NEG2 | NEG1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| FF5 | Negligible | 75.5 | 75.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF5 | None | 115.0 | 115.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF5.2 | Low | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 |
| FF5.2 | None | 154.0 | 154.0 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 801.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF5.3 | Low | 480.0 | 480.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 |
| FF4 | Low | 120.0 | 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 |
| FF4 | Negligible | 36.6 | 36.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF4.2 | Low | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 |
| FF4.2 | Negligible | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF4.2 | None | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF4.3 | Low | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 | 210.0 |
| FF4.3 | Negligible | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| FF4.3 | None | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 |
| FC0 | None | 53.3 | 53.3 | 53.3 | 53.3 | 166.5 | 166.5 | 166.5 | 166.5 | 166.5 | 166.5 | 166.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 |
| FC0.1 | None | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 | 634.7 |
| FC0.2 | None | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 |
| FC0.3 | None | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 |
| FC1 | None | 1293.7 | 1293.7 | 1293.7 | 1293.7 | 1904.1 | 1904.1 | 1904.1 | 1904.1 | 1904.1 | 1904.1 | 1904.1 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 | 1785.8 |
| FC2 | None | 727.1 | 727.1 | 727.1 | 727.1 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 |
| FC3 | None | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 |
| FC0 | None | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 |
| FC0.1 | None | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 |
| FC0 | None | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 85.4 | 85.4 | 85.4 | 85.4 |
| FC0.01 | None | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 |
| FC0.1 | None | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 |
| FC0.2 | None | 12.6 | 12.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| FC1 | None | 103.1 | 103.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 |
| FC1.2 | None | 535.4 | 535.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 |
| FC1.3 | None | 635.3 | 635.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FC1.4 | None | 74.0 | 74.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF1 | Low | 282.7 | 282.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF1 | Medium | 8.5 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF1 | None | 53.0 | 53.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 248.9 | 248.9 | 248.9 | 248.9 | 248.9 | 248.9 | 159.1 | 159.1 | 159.1 |
| FF2 | High | 119.9 | 119.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF2 | Low | 373.5 | 373.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FF2 | Medium | 235.0 | 235.0 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 0.0 | 698.3 | 698.3 | 698.3 | 698.3 | 0.0 |
| MC0.01 | None | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 |
| MC0.02 | None | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 | 401.5 |
| MC0.03 | None | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 | 678.3 |
| MC0.04 | None | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 |
| MC0.05 | None | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 |
| MC0.06 | None | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 |
| MC0.07 | None | 134.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC0.08 | None | 51.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC0.9 | None | 490.8 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 2153.5 | 490.8 | 490.8 | 490.8 | 490.8 |
| MC1.1 | None | 1199.4 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1017.1 | 1701.0 | 1701.0 |
| MC1.2 | None | 591.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC1.3 | None | 523.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC1.4 | None | 1163.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 914.6 | 914.6 | 914.6 | 914.6 |

| | | Mine Life Year | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Chinook IP | Baseline | NDS2 | NEG1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| MC1.5 | Medium | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC1.5 | Low | 66.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC1.5 | None | 133.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 | 2050.0 |
| MC2 | Medium | 95.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC2 | Low | 34.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC2 | None | 30.0 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 640.0 | 640.0 | 640.0 | 640.0 |
| MC3 | Low | 653.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC3 | None | 0.0 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 518.2 | 518.2 | 518.2 | 518.2 |
| MC4.1 | Low | 545.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC4.1 | Negligible | 50.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC4.1 | None | 30.0 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 761.0 | 761.0 | 761.0 | 0.0 |
| MC4.2 | Low | 68.4 | 68.4 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65.2 |
| MC5 | Low | 83.7 | 83.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MC5 | Low | 658.4 | 658.4 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 0.0 | 0.0 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 |
| MC5 | None | 59.9 | 59.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 718.3 | 718.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MN3 | None | 188.3 | 188.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 188.9 | 188.9 | 188.9 | 188.9 | 188.9 | 188.9 | 188.9 | 188.9 | 188.9 |
| MN3.1 | None | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 |
| MN3.2 | None | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 |
| MN3.3 | None | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 |
| MN3.4 | None | 336.6 | 336.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 |
| MN1 | None | 136.0 | 136.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 142.6 | 142.6 | 142.6 | 142.6 | 142.6 | 142.6 | 142.6 | 142.6 | 142.6 |
| MN2 | None | 45.5 | 45.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 271.8 | 271.8 | 271.8 | 271.8 | 271.8 | 271.8 | 271.8 | 271.8 | 271.8 |
| YP1 | Low | 57.8 | 57.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| YP1 | None | 240.0 | 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NCN-SFA | Low | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 | 5342.2 |
| NCN-SFA | Medium | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 | 119.9 |
| NCN-SFA | Negligible | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 | 1589.0 |
| NCN-SFA | None | 55366.6 | 55379.9 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 | 54050.5 |

**Table C2. SFA Reach Results for Steelhead Intrinsic Potential during Mine Life for Proposed Action (results are length in meters)**

| | | Mine Life Year | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Steelhead IP | Baseline | NEG2 | NEG1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| BC1.2 | None | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 | 1911.7 |
| BC1 | None | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 641.1 | 621.0 | 621.0 | 621.0 | 621.0 | 621.0 | 621.0 | 621.0 | 621.0 |
| BC2 | None | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| BC1.1 | None | 580.4 | 580.4 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 | 344.9 |
| BC4 | High | 30.9 | 30.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BC9 | Low | 119.6 | 119.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BC3 | None | 70.2 | 70.2 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 166.8 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 | 251.9 |
| BC4 | None | 61.5 | 61.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BC1 | None | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 |
| BC7 | None | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 |
| BC0.01 | None | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 | 1196.4 |
| BC0.02 | None | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 | 2057.3 |
| BC0.03 | None | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 | 424.2 |
| BC0.04 | None | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 774.3 | 364.3 |
| BC0.05 | None | 1730.3 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 |
| BC0.06 | None | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 | 659.4 |
| BC0.07 | None | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 | 971.4 |
| BC0.08 | None | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 | 759.4 |
| BC0.09 | None | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 |
| BC0.10 | None | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1146.8 |
| BC0.11 | None | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 | 1270.0 |
| BC0.12 | High | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 | 540.0 |
| BC0.13 | Low | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 |
| BC0.14 | None | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| BC0.15 | High | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 |
| BC0.16 | Low | 198.2 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 | 198.0 |
| BC0.17 | High | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| BC0.18 | Low | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 |
| BC0.19 | None | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |
| BC0.20 | High | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| BC0.21 | Low | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 | 432.0 |
| BC0.22 | None | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 |
| BC0.23 | Low | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| BC0.24 | None | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 | 240.6 |
| BC0.25 | None | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 | 407.1 |
| BC0.26 | None | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 | 714.7 |
| BC0.27 | None | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| BC1 | Low | 144.6 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 | 575.9 |
| BF1 | None | 399.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.0 | High | 150.0 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 | 667.9 |
| BF2.1 | Low | 108.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.2 | None | 330.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.4 | High | 40.2 | 40.0 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 | 1753.3 |
| BF3.2 | Low | 1211.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.1 | None | 487.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.3 | Low | 0.0 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| BF2.3 | None | 38.7 | 38.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.4 | Low | 0.0 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 | 224.1 |
| BF2.4 | None | 231.3 | 231.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF2.6 | Low | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 |
| BF2.6 | None | 97.9 | 97.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF3.2 | High | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 | 379.1 |
| BF3.1 | Low | 30.0 | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF3.1 | None | 191.5 | 191.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF3.2 | High | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 | 446.3 |
| BF3.1 | Low | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF3.1 | None | 154.0 | 154.0 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 301.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF3.3 | High | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 |
| BF4.3 | Low | 480.0 | 480.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BF4.2 | Low | 120.0 | 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 | 156.6 |
| BF4.1 | None | 38.6 | 38.6 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 141.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | Mine Life Year | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Steelhead IP | Baseline | NEG2 | NEG1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| EF0.2 | None | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EF0.3 | High | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| EF4.3 | Low | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| EF0.3 | None | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 | 163.7 |
| EF0 | None | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 |
| FC01 | None | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 | 684.2 |
| FC0.2 | None | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 |
| FC0.3 | None | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 | 366.2 |
| FC | None | 1291.2 | 1291.2 | 1291.2 | 1291.2 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1404.1 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 | 1795.8 |
| FC3 | None | 717.1 | 717.1 | 717.1 | 717.1 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 1759.7 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 | 675.4 |
| FC3 | None | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 |
| GE0 | None | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 | 674.7 |
| GE0 | None | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 |
| GE0 | None | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 |
| HE0.01 | None | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 | 1292.0 |
| HE0.1 | None | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5 |
| HE0.2 | None | 22.6 | 22.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE0 | None | 100.1 | 100.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 |
| HE1.2 | None | 586.4 | 586.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 | 359.1 |
| HE1.3 | None | 506.5 | 506.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE1.4 | None | 74.0 | 74.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE1 | High | 56.7 | 56.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 248.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE1 | Low | 349.8 | 349.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE1 | None | 30.0 | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 248.9 | 248.9 | 248.9 | 0.0 | 0.0 | 0.0 | 159.2 | 159.2 |
| HE2 | High | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 |
| HE2.01 | None | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 | 702.9 |
| HE2.02 | None | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 | 407.5 |
| HE2.03 | None | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 | 670.1 |
| HE2.04 | None | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 | 282.9 |
| HE2.05 | None | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 |
| HE2.06 | None | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 |
| HE2.07 | None | 134.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE2.08 | None | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE2.9 | None | 490.6 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 2158.5 | 490.6 | 490.6 | 490.6 |
| HE3.2 | None | 1244.4 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1817.1 | 1761.0 | 1761.0 | 1761.0 |
| HE3.3 | None | 89.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.5 | None | 520.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.4 | Low | 183.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.4 | None | 2256.6 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 914.0 | 914.0 | 914.0 |
| HE3.5 | High | 253.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.5 | Low | 435.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.5 | None | 316.0 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 2256.9 | 0.0 | 0.0 | 0.0 |
| HE3 | High | 135.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3 | Low | 34.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3 | None | 9.0 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 473.5 | 0.0 | 0.0 | 0.0 |
| HE3 | Low | 566.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3 | None | 3.0 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 1311.5 | 518.2 | 518.2 | 518.2 |
| HE3.1 | High | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.1 | Low | 54.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE3.2 | None | 69.8 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 1254.9 | 0.0 | 0.0 | 0.0 |
| HE4.2 | High | 33.4 | 33.4 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 0.0 | 0.0 | 0.0 | 0.0 | 94.0 | 94.0 | 94.0 | 105.2 |
| HE4.2 | Low | 30.0 | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE4 | High | 56.7 | 93.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE4 | High | 508.6 | 508.5 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 | 718.3 |
| HE4 | Low | 184.9 | 349.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE4 | None | 59.9 | 59.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HE4 | None | 168.0 | 168.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 |
| HE4.1 | None | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 | 731.9 |
| HE4.2 | None | 122.4 | 122.4 | 22.4 | 22.4 | 122.4 | 122.4 | 22.4 | 22.4 | 122.4 | 122.4 | 122.4 | 122.4 | 22.4 | 22.4 | 122.4 | 122.4 | 22.4 | 22.4 | 22.4 | 122.4 | 122.4 | 122.4 | 22.4 |
| HE4.3 | None | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 |
| HE4.4 | None | 506.5 | 506.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 | 328.0 |

| | | Mine Life Years | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SFA Reach | Spatialized IP | Baseline | NEG2 | NEG1 | -1 | -2 | 1 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| MN1 | None | 135.0 | 135.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 | 142.5 |
| MN2 | None | 45.5 | 45.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 | 271.5 |
| YP1 | Low | 57.8 | 57.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| YP1 | None | 240.0 | 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NON-SFA | High | 2125.0 | 2125.0 | 2125.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2125.0 | 2125.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 | 2126.0 |
| NON-SFA | Low | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 | 4415.4 |
| NON-SFA | None | 56873.4 | 56323.7 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 | 54560.3 |

# INTRINSIC POTENTIAL MODEL CHINOOK SALMON AND STEELHEAD ALTERNATIVES 2 AND 3

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

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Prepared for: AECOM

Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Intrinsic Potential Model for Chinook and Steelhead Alternatives 2 and 3

Date: December 2019

To: AECOM

From: Ecosystem Sciences

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# 1.0 INTRODUCTION AND METHODS

An Intrinsic Potential (IP) model for the Interior Columbia Basin spring and spring/summer Chinook Salmon (*Oncorhynchus tshawytscha*) and steelhead (*Oncorhynchus mykiss*) was developed for the Stibnite Gold mine site study area, located in the headwaters of the Upper East Fork South Fork of the Salmon River (EFSFSR) watershed (Ecosystem Sciences 2019a). Following the same methodology and criteria of the baseline IP model (Ecosystem Sciences 2019a) and the Proposed Action (PA) IP model (Ecosystem Sciences 2019b), the Alternative 2 (modified PRO) and Alternative 3 (Upper EFSFSR TSF) IP models examine the physical characteristics of stream reaches to assess the potential for supporting spawning and early rearing habitat for the two species. The proposed action and alternatives models differ from the baseline IP model in that several years of IP habitat is modeled for the two species, examining how the mine activity would change the quantity and quality of spawning and early rearing habitat.

The life of the mine includes Year -2 through Year 20. Year -2 is the first year that stream configuration changes occur. At Year 20, all streams are proposed to be recreated or enhanced and are in their permanent location. Like the baseline model, the alternatives model builds off a regionally derived model developed for the two species in the Interior Columbia Basin (Cooney and Holzer 2006). The Stibnite Gold study area is located in the Interior Columbia Basin. The Stibnite Gold study area baseline IP model employed shorter reaches (30 meters [m] versus 200m) and higher resolution data (1m derived LiDAR data versus 30m DEM) than the Cooney and Holzer (2006) model. The alternatives models (proposed action, modified PRO, and Upper EFSFSR TSF) retain much of the baseline model reaches, but changes to reaches (e.g., length, sinuosity, slope) occur within the model timeframe due to mining activities and the proposed stream channel re-creation and enhancement. Species specific IP ratings follow the classifications defined by Cooney and Holzer 2006 (**Table 1**).

The Alternative 2 and Alternative 3 IP models' study area matches the baseline and proposed action IP (Alternative 1) models study area, which includes Sugar Creek and the Upper EFSFSR above its confluence with Sugar Creek (**Figure 1**). Stream Functional Assessment (SFA) reach information (name and if needed IP variables [e.g., bank full width, wetted width]) was attributed to the 30-meter (m) segments (Rio ASE 2018) or replaced the 30m segments entirely. Re-creation reaches replaced the 30m segments, while enhancement reaches retained and updated the attributes of the 30m segments created during the baseline model. IP ratings were derived for all perennial streams in the study area.

Like the other IP models, the Stibnite Gold Alternatives (2 and 3) IP models employ the same variables as those used by Cooney and Holzer (2006): bank full width, wetted width, gradient (i.e., percent slope), and valley confinement (valley width/bank full width) (**Table 1**). The data for each variable were either retained from the baseline model (no change to the 30m segment based on mine activity) or provided by project proponent (e.g., wetted width, bank full width, valley bottom width and slope) (Rio ASE 2019). Changes in yearly IP habitat lengths correspond to changes in stream physical characteristics. Changes in stream physical characteristics correspond to enhancement actions, stream restoration or re-creation, and flow changes due to mine activity (e.g., filling Hangar Flats pit lake). The IP model is a categorical model in which thresholds per variable indicate changes in IP habitat (**Table 1**) (Cooney and Holzer 2006).

**Table 1. Cooney and Holzer Categorical Intrinsic Potential (IP) Models for Chinook Salmon and Steelhead**

Note the correction to the table for Chinook salmon: wetted width was substituted for bankfull width and the called-out category was corrected to 3.6m-25m, per NOAA Fisheries consultation.[1] Criteria that were modified based on consultation with NOAA Fisheries are called out in red text.

Adapted from Cooney and Holzer (2006) "Table 7.-Relative potential for Interior Columbia basin steelhead spawning and initial Rearing as a function of stream reach physical characteristics."

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| **Bankfull Width (BF)** | **Gradient** | **Confined (≤4 x BF width)** | **Moderate (4-20 x BF width)** | **Wide (> 20 x BF width)** |
| BF < 3.8 m | ≥ 0 | None | None | None |
| BF 3.8m to 25 m | 0 - 0.5 | None | Medium | Medium |
| | 0.5 - 4.0 | Low | High | High |
| | 4.0 - 7.0 | None | Low | Low |
| | > 7.0 | None | None | None |
| BF 25 m to 50 m | 0- 4.0 | Low | Medium | Medium |
| | > 4.0 | None | None | None |
| BF> 50m | ≥ 0 | None | Low | Low |

Adapted from Cooney and Holzer (2006) "Table 3- Relative potential for Interior Columbia basin Spring/Summer Chinook salmon spawning and initial rearing as a function of stream reach physical characteristics."

| Stream Width/ Gradient Categories | | Valley Width Ratio (Ratio of valley width to bankfull stream width) | | |
|---|---|---|---|---|
| **Wetted Width (WW)** | **Gradient** | **Confined (≤4 x BF width)** | **Moderate (4-20 x BF width)** | **Wide (> 20 x BF width)** |
| WW < 3.6 m | ≥ 0 | None | None | None |
| WW 3.6m to 25 m | 0 - 0.5 | Medium | High | High |
| | 0.5 - 1.5 | Low | Medium | High |
| | 1.5 - 4.0 | Low | Low | Medium |
| | 4.0 - 7.0 | Negligible | Low | Low |
| | > 7.0 | None | None | None |
| WW 25 m to 50 m | 0 - 0.5 | None | Medium | Medium |
| | 0.5 – 10 | None | None | None |
| | ≥ 10 | None | None | None |
| WW> 50m | ≥ 0 | None | None | None |

*red items were modified from the original publication.

[1] Johnna Sandow, NOAA Fisheries, personal consultation. The authors of the original table were consulted, and the correction sent via Johnna Sandow to the ESA group.

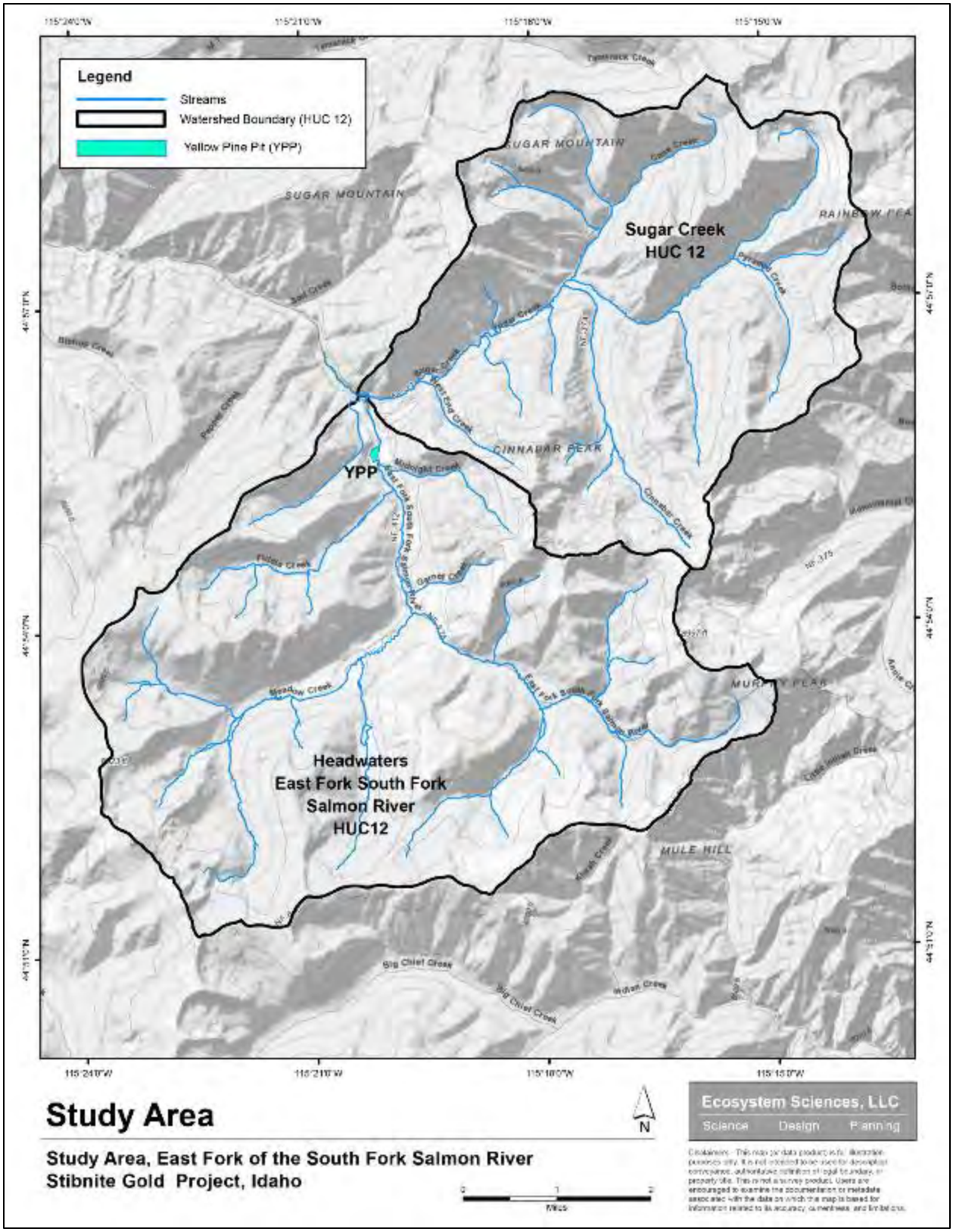



**Figure 1: Study Area Stibnite Gold Project Intrinsic Potential (IP) Model Domain (All Alternatives)**

# 2.0 RESULTS

Alternative 2 and Alternative 3 IP results are summarized from mine site construction through closure and reclamation (baseline, and Year -2 through Year 20, respectively) for the entire Stibnite Gold Mine Site study area (HUC 12s—Headwaters of the EFSFSR and Sugar Creek) (**Figure 1**). Additionally, IP results are summarized for several stream segments (1 through 6). Stream Segment 5 includes the Upper EFSFSR upstream of its Sugar Creek confluence. Stream segment 5 is further broken down into stream segment 1 (Upper EFSFSR from Sugar Creek to the confluence with Meadow Creek), stream segment 2 (Meadow Creek drainage area), and stream segment 3 (Upper EFSFSR above the confluence with Meadow Creek). Stream segment 6 describes the Sugar Creek drainage area. Stream segment 4 includes the modeled portion of the EFSFSR downstream of its confluence with Sugar Creek. A map and description of the stream segments can be found in **Appendix A**.

Results are presented as the length (m) of IP habitat per year and the percent change from baseline conditions for each year. For Chinook salmon the habitat is rated as high, medium, low, and negligible. For steelhead the habitat is rated as high, medium, and low. None means the habitat is not useable for the species for spawning and early rearing. Percent change per mine year is based on the difference between that year and baseline conditions (% Change = [Year 20 – Baseline]/Baseline). Useable habitat is defined as all IP classes except none.

## 2.1 ALTERNATIVE 2 (MODIFIED PRO) STUDY AREA RESULTS

Under the Alternative 2 scenario, Chinook salmon's useable habitat would decrease 5 percent over the life of the mine, a loss of over 1,500m (**Table 2**). High rated IP habitat would increase 19 percent over the life of the mine (**Table 2**). This increase in high-rated IP habitat is offset by large losses in Medium and Negligible-rated habitat (**Table 2**). Reductions in Chinook salmon IP habitat occur in Year -2 (stream segment 2—Meadow Creek diversions), EFSFSR Tunnel operation (stream segment 1) (year -1 – 12) and during the filling of Hangar Flats pit lake (stream segment 2) (Year 13 – 20) (**Figure 2**).

**Table 2. Alternative 2 Study Area Comparison of Chinook Salmon IP Habitat Baseline to Year 20 (%Change = [Year 20 – Baseline]/Baseline)**

| IP Rating | Baseline Length (m) | Year 20 Length (m) | Loss/Gain | % Change |
|---|---|---|---|---|
| High | 838.8 | 994.5 | 155.7 | 18.6 |
| Medium | 7,287.3 | 5,700.5 | -1,586.8 | -21.8 |
| Low | 8,744.4 | 9,997.4 | 1,253.0 | 14.3 |
| Negligible | 1,739.7 | 989.8 | -750.0 | -43.1 |
| None | 94,594.5 | 96,128.8 | 1,534.3 | 1.6 |
| Useable | 18,610.3 | 17,682.2 | -928.1 | -5.0 |

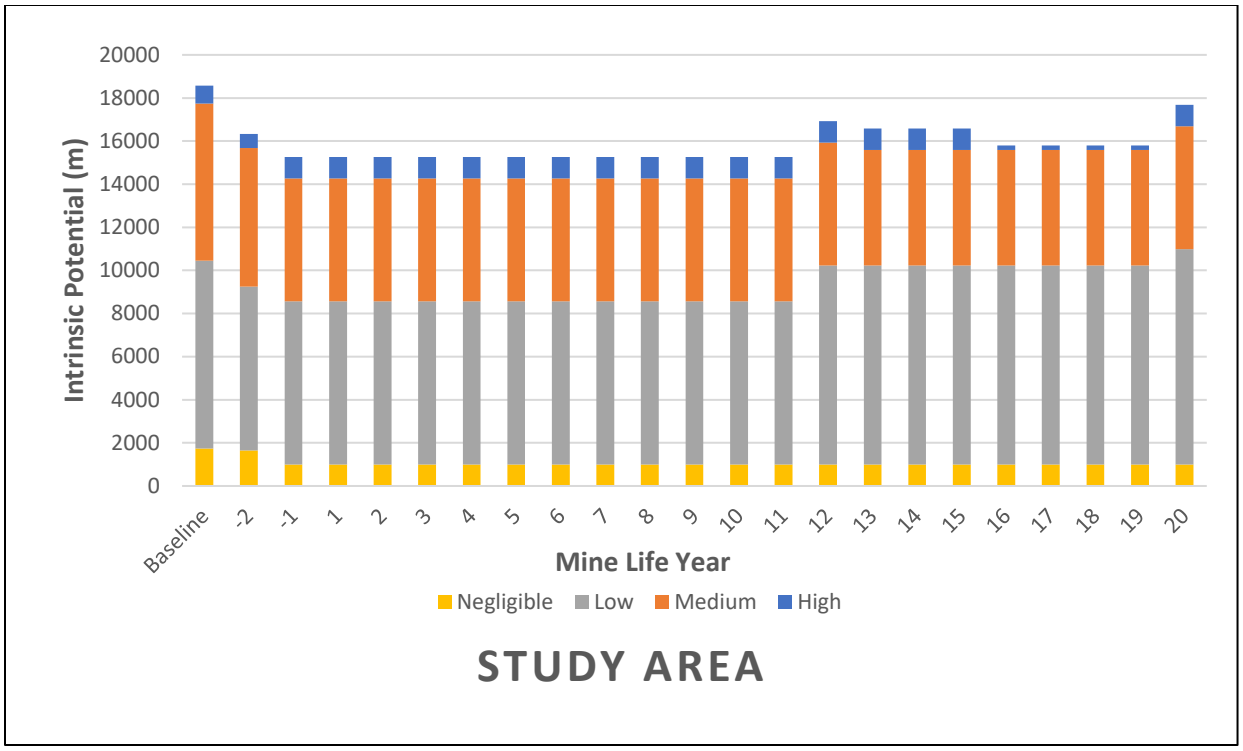



**Figure 2. Alternative 2 Study Area IP Habitat for Chinook Salmon from Baseline to Year 20**

Under the Alternative 2 scenario, Steelhead useable habitat would increase 12.7 percent over the life of the mine, a gain of over 2,250m (**Table 3**). The length of high and medium-rated stream segments would increase over the life of the mine, while the length of low-rated segments would decrease (**Table 3**). An increase in steelhead IP habitat would occur in years 12 (decommissioning of EFSFSR Tunnel—stream segment 1) and year 17 (Meadow Creek DRSF/TSF re-creation—stream segment 2) (**Figure 3**).

**Table 3. Alternative 2 Study Area Comparison of Steelhead IP Habitat Baseline to Year 20 (%Change = [Year 20 – Baseline]/Baseline)**

| IP Rating | Baseline Length (m) | Year 20 Length (m) | Loss/Gain | % Change |
|---|---|---|---|---|
| High | 8042.5 | 11103.7 | 3061.3 | 38.1 |
| Medium | 601.6 | 2146.2 | 1544.6 | 256.8 |
| Low | 9254.2 | 6918.9 | -2335.3 | -25.2 |
| None | 95103.0 | 93642.2 | -1460.8 | -1.5 |
| Useable | 17898.3 | 20168.8 | 2270.6 | 12.7 |

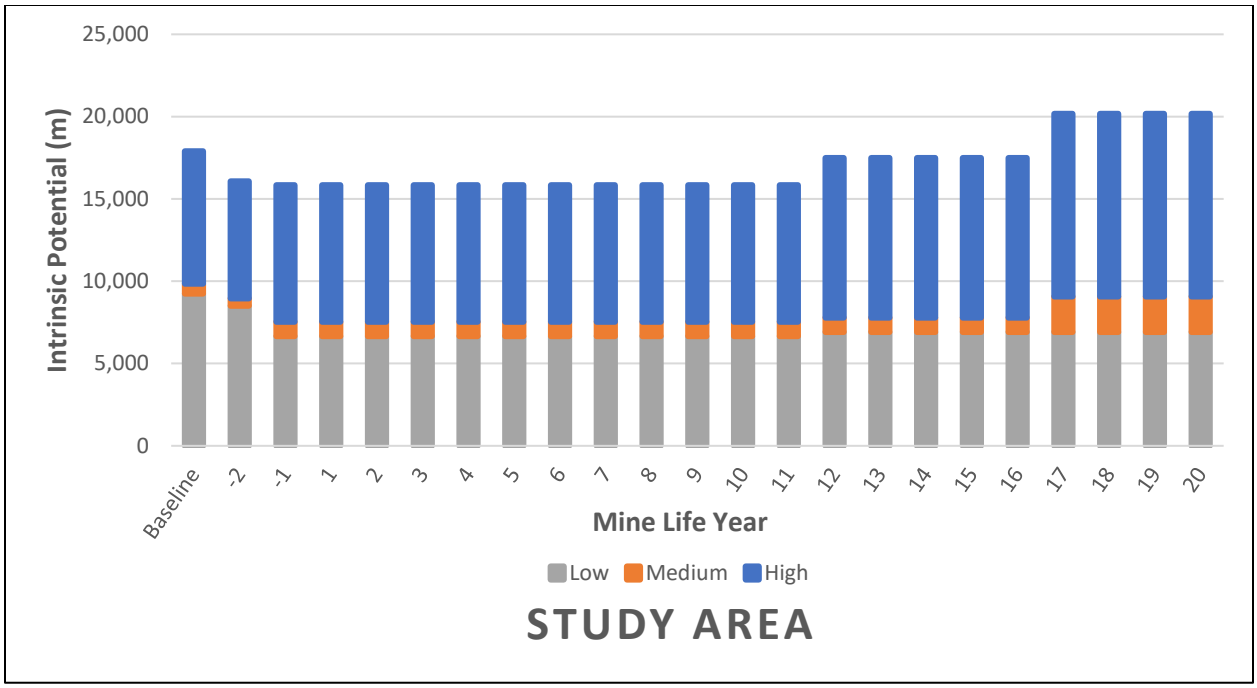



**Figure 3. Alternative 2 Study Area IP Habitat for Steelhead from Baseline to Year 20**

## 2.2 ALTERNATIVE 3 (UPPER EFSFSR TSF) STUDY AREA RESULTS

Chinook salmon useable habitat, under the Alternative 3 scenario, would decrease nearly 28 percent over the life of the mine, a loss of over 5,000m (**Table 4**). High and medium-rated IP habitat would decrease 73 percent and 48 percent respectively, over the life of the mine (**Table 2**). Reductions in Chinook salmon IP habitat would occur in years negative 2 (diversions in the Upper EFSFSR above Meadow Creek—stream segment 3), EFSFSR Tunnel operation (stream segment 1) (Year -1 to 12), during the filling of Hangar Flats pit lake (Year 13 to 17) (stream segment 2), and the loss of SFA reaches HL1 and HL2 due to Hangar Lake filling (Years 17 to 20) (stream segment 2) (**Figure 4**).

**Table 4. Alternative 3 Study Area Comparison of Chinook Salmon IP Habitat Baseline to Year 20 (% Change = [Year 20 – Baseline]/Baseline)**

| IP Rating | Baseline Length (m) | Year 20 Length (m) | Loss/Gain | % Change |
|---|---|---|---|---|
| High | 838.8 | 224.5 | -614.3 | -73.2 |
| Medium | 7,287.3 | 3,798.0 | -3,489.3 | -47.9 |
| Low | 8,744.4 | 8,666.3 | -78.1 | -0.9 |
| Negligible | 1,739.7 | 749.8 | -990.0 | -56.9 |
| None | 94,594.5 | 99,824.8 | 5,230.3 | 5.5 |
| Useable | 18,610.3 | 13,438.6 | -5,171.7 | -27.8 |

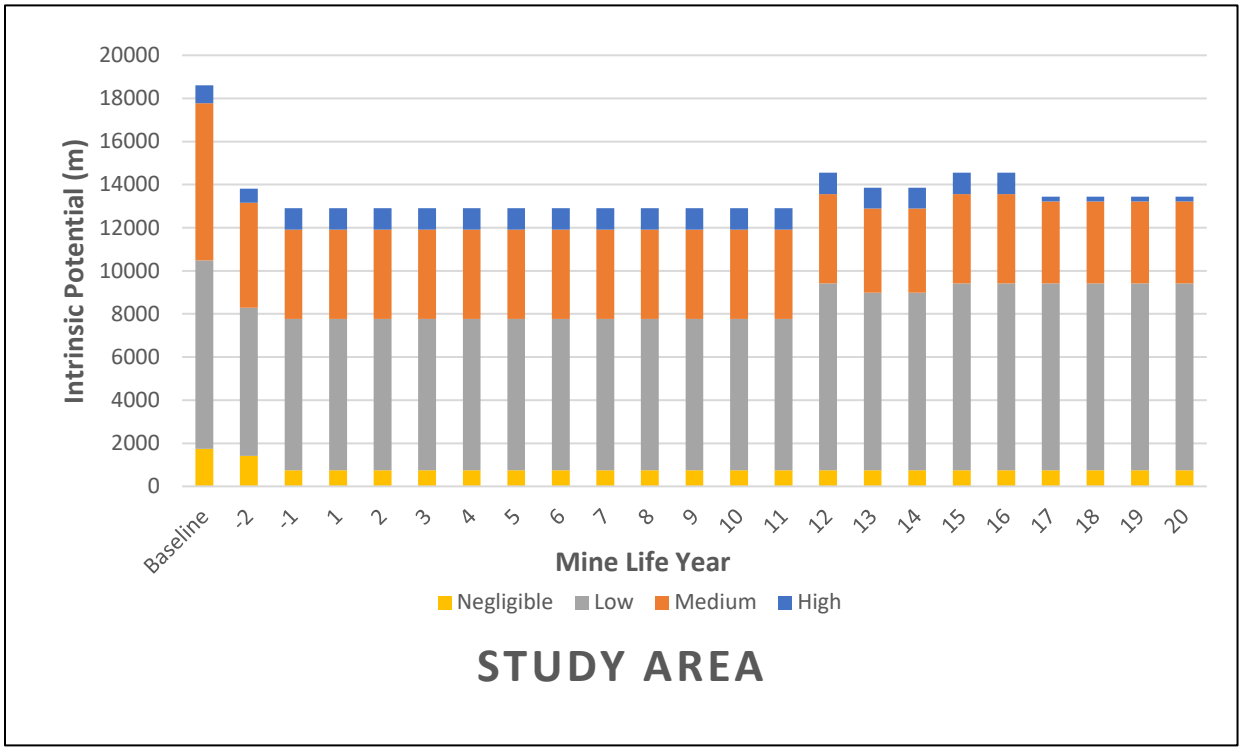



**Figure 4. Alternative 3 Study Area IP Habitat for Chinook Salmon from Baseline to Year 20**

Under the Alternative 3 scenario, steelhead useable habitat would increase 0.4 percent over the life of the mine, a gain of 73m (**Table 5**). The length of high-rated stream segments would increase (26 percent) over the life of the mine, while the length of medium and low rated segments would decrease (57 percent and 18 percent respectively) (**Table 5**). An increase in steelhead IP habitat would occur in years 12 (decommissioning of EFSFSR Tunnel—stream segment 1) and year 17 (Upper EFSFSR re-creation on filled TSF—stream segment 3) (**Figure 5**).

**Table 5. Alternative 3 Study Area Comparison of Steelhead IP Habitat Baseline to Year 20 (% Change = [Year 20 – Baseline]/Baseline)**

| IP Rating | Baseline Length (m) | Year 20 Length (m) | Loss/Gain | % Change |
|---|---|---|---|---|
| High | 8,042.5 | 10,155.5 | 2,113.1 | 26.3 |
| Medium | 601.6 | 259.2 | -342.4 | -56.9 |
| Low | 9,254.2 | 7,556.9 | -1,697.3 | -18.3 |
| None | 95,103.0 | 95,291.8 | 188.8 | 0.2 |
| Useable | 17,898.3 | 17,971.6 | 73.3 | 0.4 |

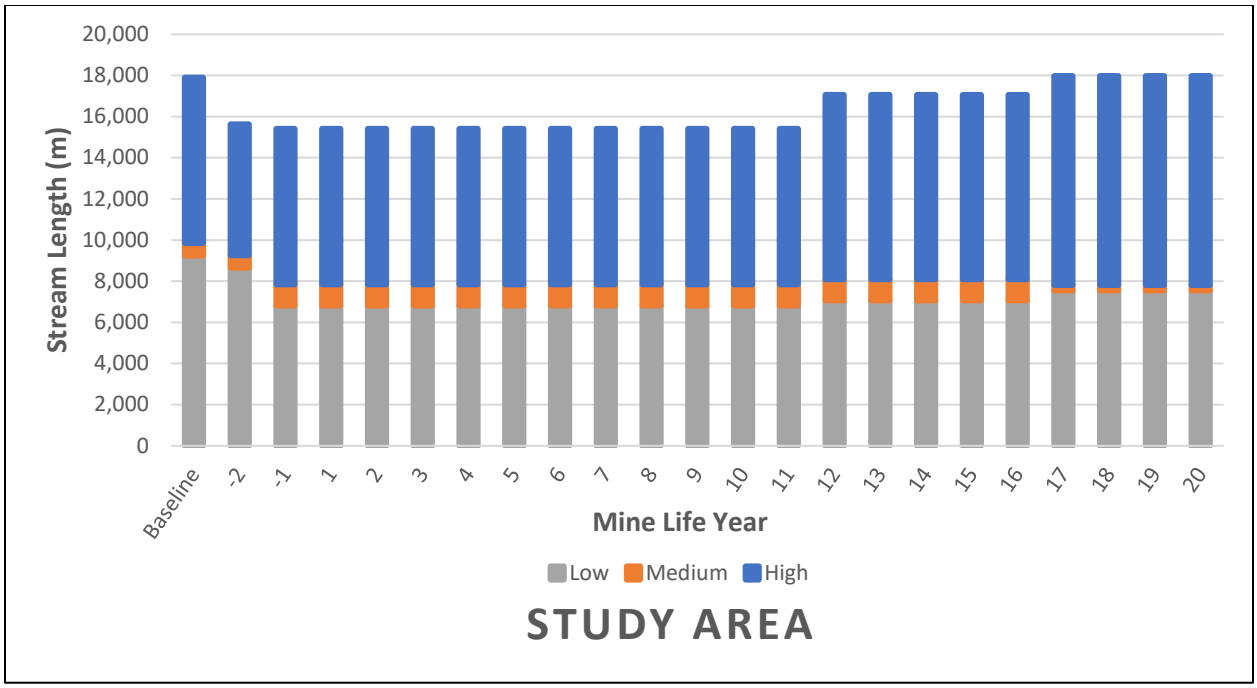



**Figure 5. Alternative 3 Study Area IP Habitat for Steelhead from Baseline to Year 20**

## 2.3 ALTERNATIVE 2 (MODIFIED PRO) STREAM SEGMENT 5 - UPPER EFSFSR ABOVE SUGAR CREEK RESULTS

Under Alternative 2, the Upper EFSFSR above Sugar Creek would experience changes in Chinook salmon and steelhead IP habitat during mining activities (**Figure 6**). Declines in Chinook salmon useable habitat would occur in Year -2 (stream segment 2—Meadow Creek DRSF/TSF diversions), Year -1 (stream segment 1—EFSFSR tunnel in operation), and Year 16 to 19 (streamflow declines while Hangar Flats pit lake fills—stream segment 2) (**Figure 6**). In Year 20, once flows in Meadow Creek stabilize, Chinook salmon's usable habitat would increase slightly over previous years (**Figure 3**). Overall, Chinook salmon habitat in stream segment 5 (Upper EFSFSR above Sugar Creek) would decline 7.9 percent over the life of the mine; a loss of roughly 900m (**Figure 6**).

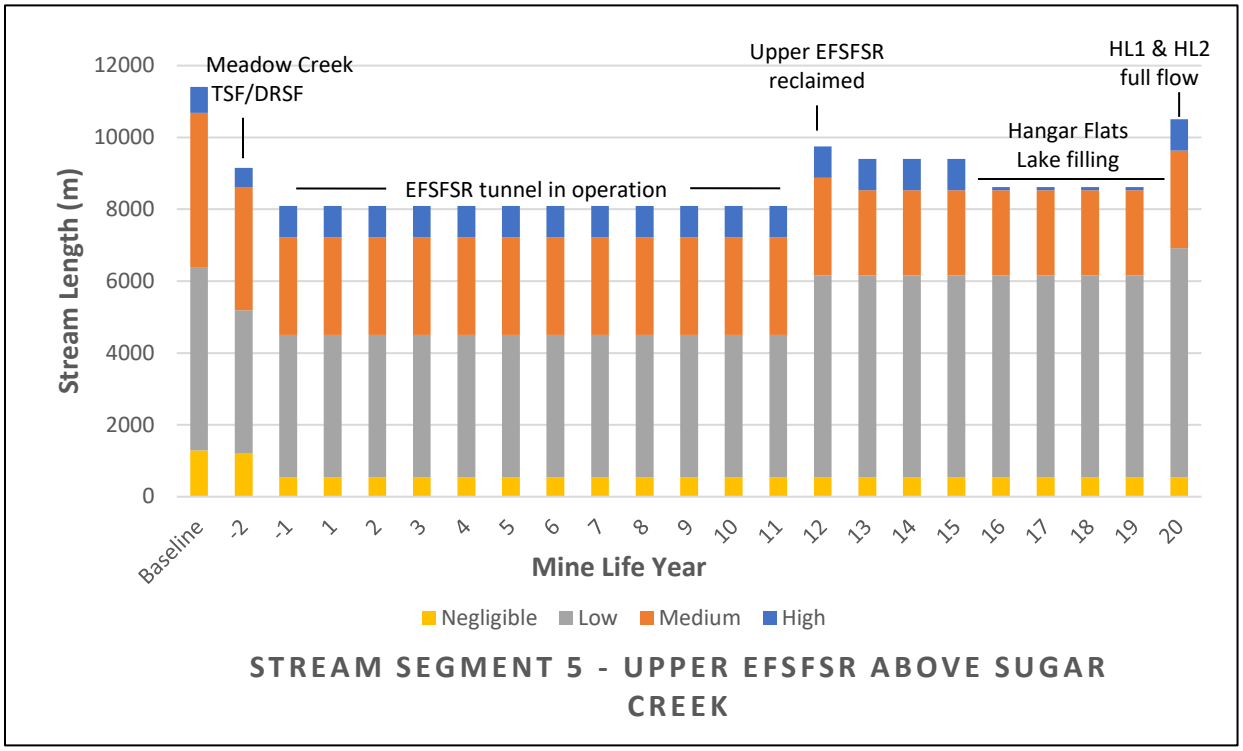



**Figure 6. Alternative 2 Chinook Salmon IP Habitat in Stream Segment 5 (Upper EFSFSR above Sugar Creek) from Baseline to Year 20**

Under Alternative 2, steelhead habitat in stream segment 5 (Upper EFSFSR above Sugar Creek) would experience changes during mining activities (**Figure 7**). Declines in steelhead IP habitat would occur in conjunction with Chinook salmon habitat declines; in Year -2 (stream segment 2—Meadow Creek DRSF/TSF diversions), Year -1 (stream segment 1—EFSFSR tunnel in operation), and Year 13 to 17 prior to re-creation of the TRSF/DRSF (**Figure 7**). Unlike Chinook salmon, stream re-creation and enhancements would improve stream conditions for steelhead in stream segment 5 (Upper EFSFSR above Sugar Creek), resulting in an overall gain in useable habitat. The re-creation of the EFSFSR through the filled YPP (stream segment 1) (Year 12) and Meadow Creek (stream segment 2) on the DRSF/TSF (Years 17 to 20) would result in a 23.5 percent increase in useable steelhead habitat, an increase of 2,270m of habitat (**Figure 7**).

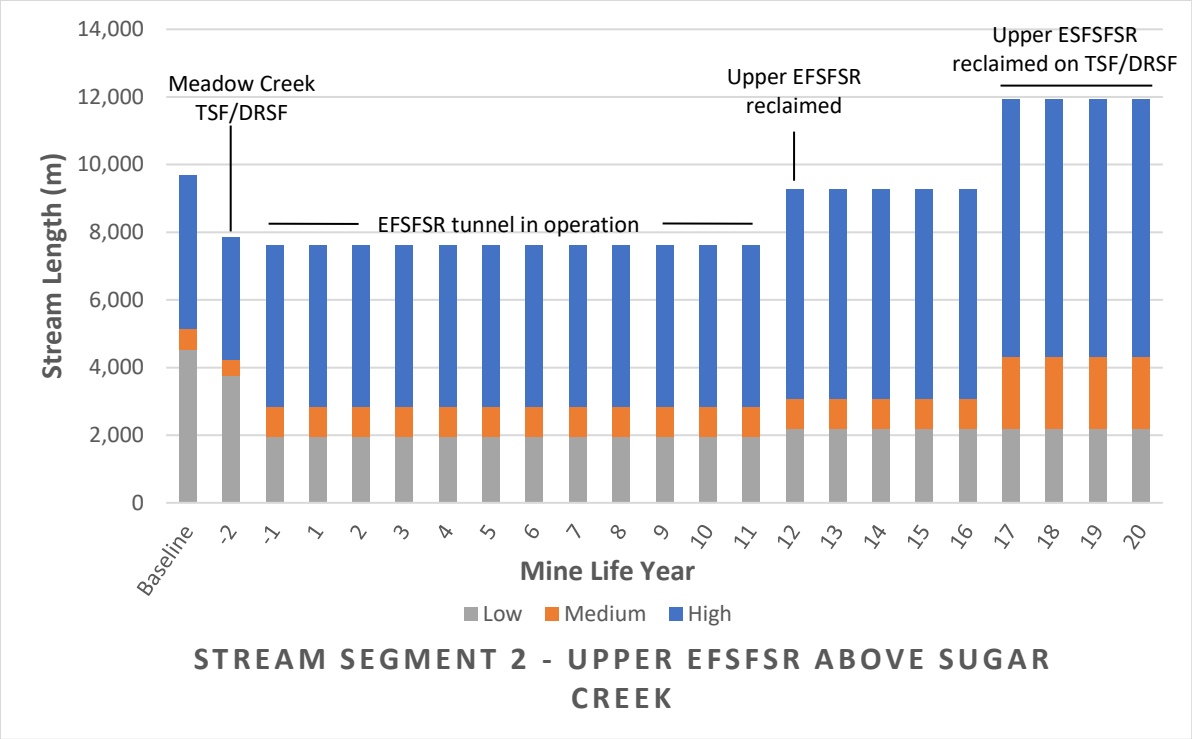



**Figure 7. Alternative 2 Steelhead IP Habitat in the Stream Segment 5 (Upper EFSFSR above Sugar Creek from Baseline to Year 20)**

## 2.4 ALTERNATIVE 3 (UPPER EFSFSR TSF) STREAM SEGMENT 5 - UPPER EFSFSR ABOVE SUGAR CREEK RESULTS

Based on the Alternative 3 scenario, stream segment 5 (Upper EFSFSR above Sugar Creek) would experience changes in Chinook salmon IP habitat during mining activities (**Figure 8**). Declines in Chinook salmon's useable habitat would occur in Year -2 (stream segment 3—Upper EFSFSR above Meadow Creek TSF diversions) and Year -1 (stream segment 1—Upper EFSFSR tunnel in operation) through year 12 (**Figure 8**). Post EFSFSR tunnel closure, in year 12, there would be a slight increase to Chinook salmon habitat due to re-creation of the EFSFSR on the filled YPP. The overall increase is variable due to streamflow changes associated with Hangar Lakes filling (i.e., wetted width declines below 3.6m threshold for Chinook salmon useable habitat) (**Figure 8**). In year 17, SFA reaches HL1 and HL2 would be lost due rerouting of Meadow Creek into Hangar Flats Lake, which would result in a loss of Chinook salmon's usable habitat in stream segment 5 (**Figure 8**). Overall, Chinook salmon habitat in stream segment 5 (Upper EFSFSR above Sugar Creek would decline 45 percent over the life of the mine; a loss of over 5,170m.

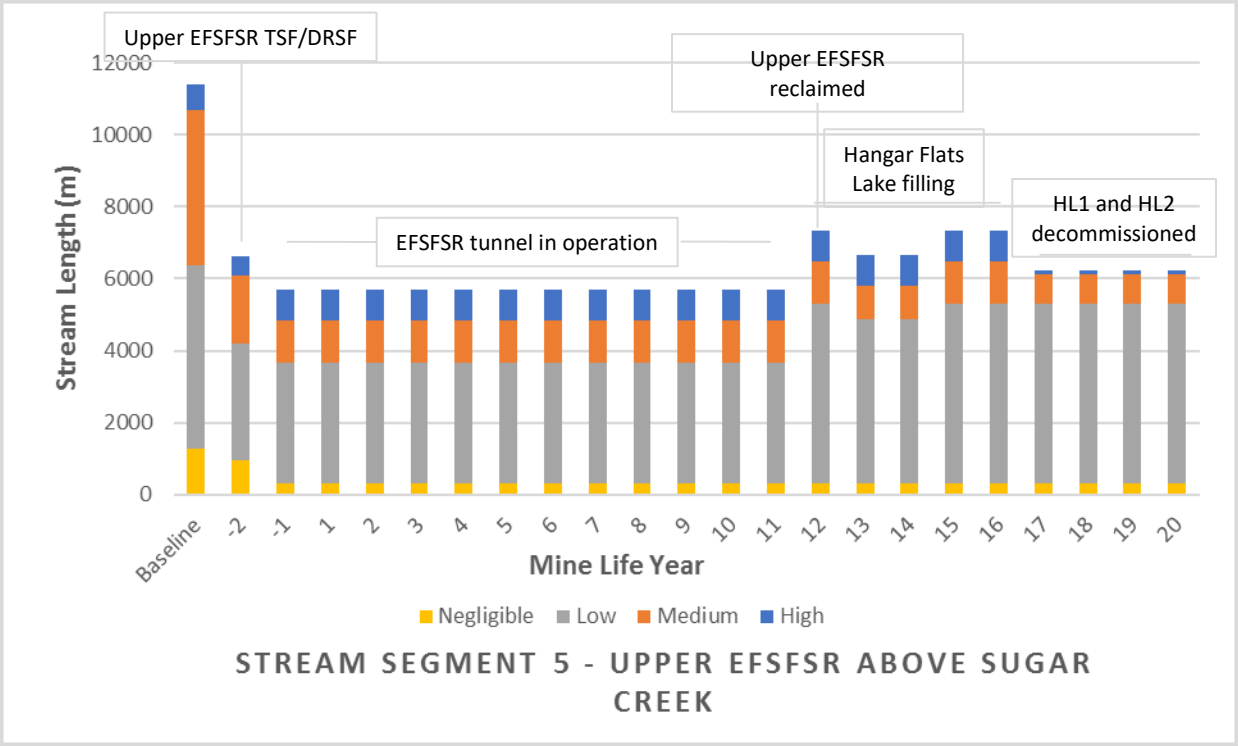



**Figure 8. Alternative 3 Chinook Salmon IP Habitat in the Stream Segment 5 (Upper EFSFSR above Sugar Creek) from Baseline to Year 20**

The Alternative 3 scenario would induce changes to steelhead habitat in stream segment 5 (Upper EFSFSR above Sugar Creek) due to mining activities (**Figure 9**). Declines in steelhead IP habitat would occur in Year -2 (stream segment 3—Upper EFSFSR above Meadow Creek TSF diversions) and Year -1 (stream segment 1—EFSFSR tunnel in operation) through Year 12 (**Figure 9**). Post EFSFSR tunnel closure in Year 12 to 17, steelhead habitat would increase due to re-creation of the EFSFSR on the filled YPP. In Year 17, the Upper EFSFSR above Meadow Creek would be restored on top of the TSF. The restoration of Meadow Creek on top of the TSF would result in an increase in steelhead usable habitat in stream segment 5 (**Figure 9**). Stream re-creation and enhancements would improve conditions for steelhead in the Upper EFSFSR above Sugar Creek (stream segment 5), resulting in an overall gain in useable habitat. The re-creation of the EFSFSR through the filled YPP (Year 12) and Upper EFSFSR above Meadow Creek on the TSF (Years 17 – 20) would result in an 0.8 percent increase in useable steelhead habitat, an increase of over 73m (**Figure 9**).

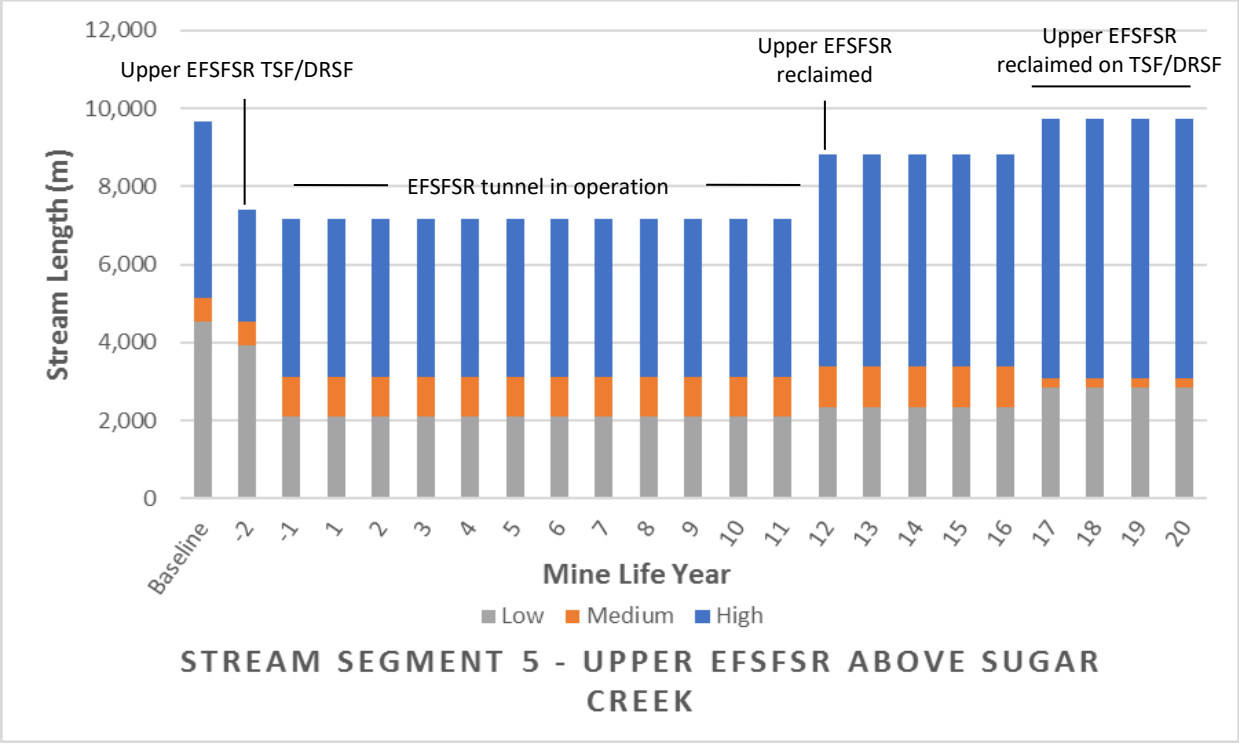



**Figure 9. Steelhead IP Habitat in Stream Segment 3 (Upper EFSFSR above Sugar Creek) Baseline to Year 20**

## 2.5 ALTERNATIVE 2 (MODIFIED PRO) STREAM SEGMENT 1 - UPPER EFSFSR ABOVE SUGAR CREEK AND BELOW MEADOW CREEK RESULTS

Chinook salmon and steelhead IP habitat changes in stream segment 1 (Upper EFSFSR, upstream of the confluence with Sugar Creek and downstream of Meadow Creek) are tied to the EFSFSR Tunnel (Year -1 to 12) and the recreation of the EFSFSR on the filled YPP (Year 12 to 20) (**Figures 10** and **11**).

Overall, under Alternative 2 useable Chinook salmon IP habitat would increase in stream segment 1 (i.e., Upper EFSFSR upstream of Sugar Creek and downstream of Meadow Creek). Specifically, useable Chinook salmon IP habitat would increase 18 percent over baseline conditions in stream segment 1, an increase of over 700m (**Figure 10**).

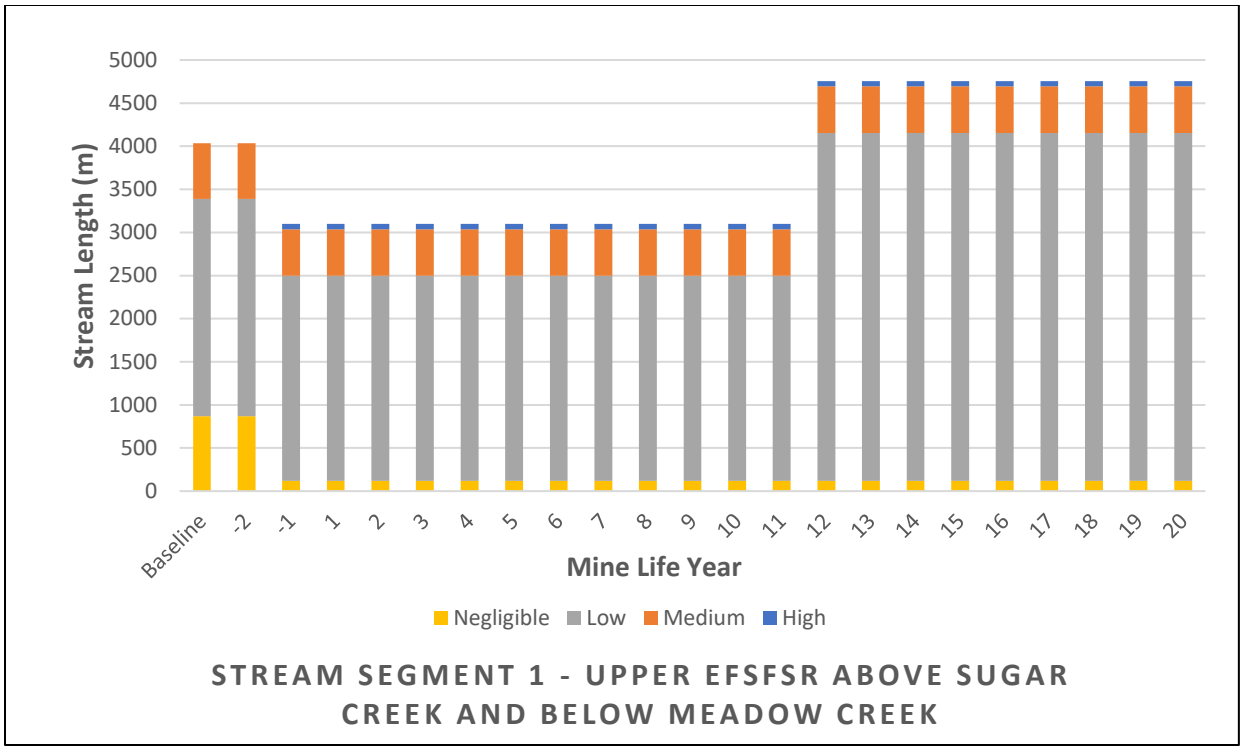



**Figure 10. Alternative 2 Stream Segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) Intrinsic Potential Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

The quantity and quality of steelhead habitat in stream segment 1 (Upper EFSFSR upstream of the confluence with Sugar Creek and downstream of Meadow Creek), under the Alternative 2 scenario, would change during mining activities (**Figure 11**). Following enhancement in stream segment 1 in Year -1, high-rated IP habitat would increase by nearly 1,500m (**Figure 11**). Overall, the re-creation of the EFSFSR on the filled YPP (Year 12) would equate to a 56 percent increase in usable steelhead habitat, an increase of approximately 1,650m over baseline conditions in the stream segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) (**Figure 11**).

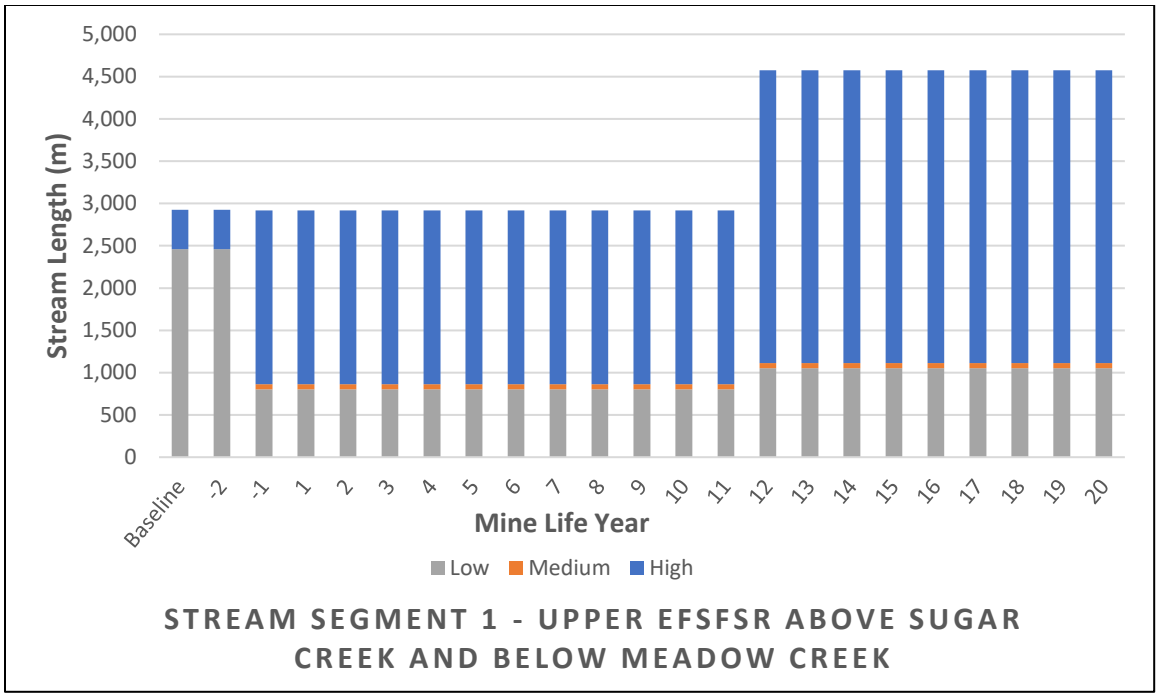



**Figure 11. Alternative 2 Stream Segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) Intrinsic Potential Rating Results for Steelhead during the Life of the Mine (Baseline through Year 20)**

## 2.6 ALTERNATIVE 3 (UPPER EFSFSR TSF) STREAM SEGMENT 1 - UPPER EFSFSR ABOVE SUGAR CREEK AND BELOW MEADOW CREEK RESULTS

Under Alternative 3, useable Chinook salmon IP habitat would increase, in the Upper EFSFSR upstream of Sugar Creek and downstream of Meadow Creek, 18 percent over baseline conditions, an increase of over 720m (**Figure 12**).

The quantity and quality of steelhead habitat in the Upper EFSFSR upstream of the confluence with Sugar Creek and downstream of Meadow Creek, under the Alternative 3 scenario, would change during mining activities (**Figure 13**). Following enhancement of the Upper EFSFSR in stream segment 1 (EFSFSR above Sugar Creek and below Meadow Creek) in Year -1, high-rated IP habitat would increase by nearly 1,500m (**Figure 13**). Following the re-creation of the EFSFSR on the filled YPP (Year 12), useable IP would increase 1,650m over baseline conditions in stream segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek), a 56 percent increase (**Figure 13**).

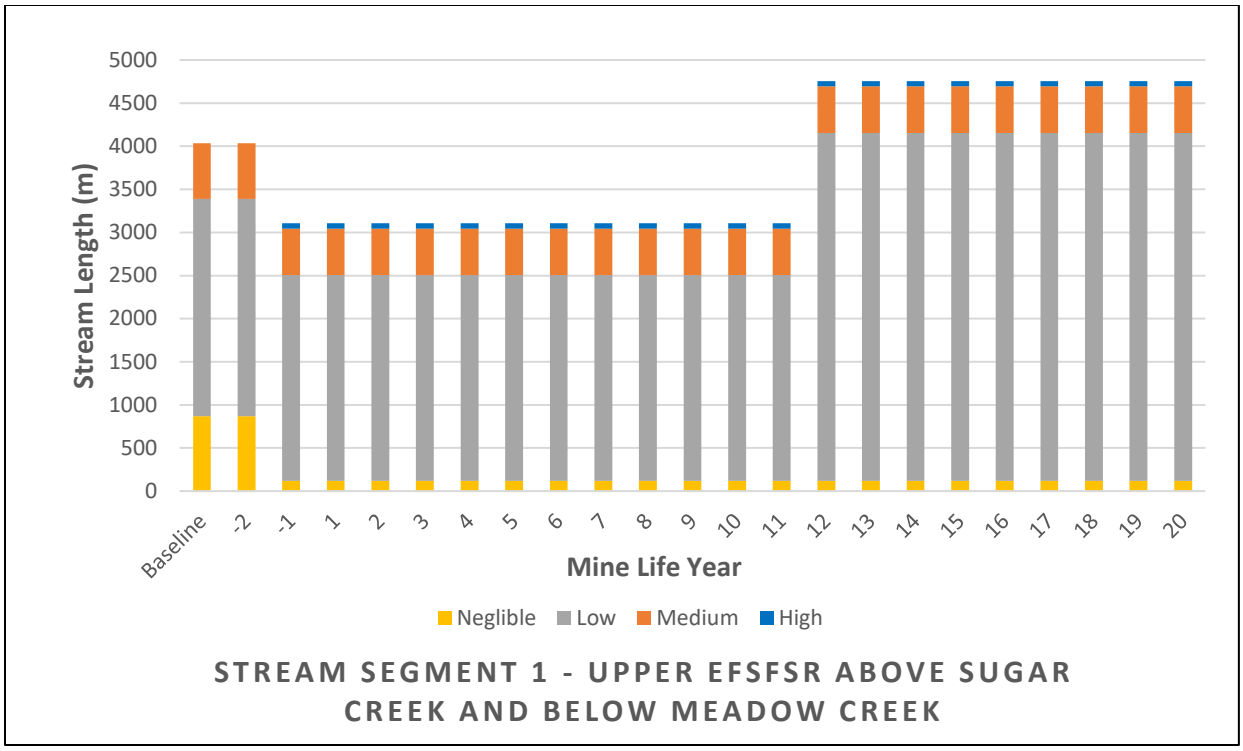



**Figure 12. Alternative 3 Stream Segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) IP Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

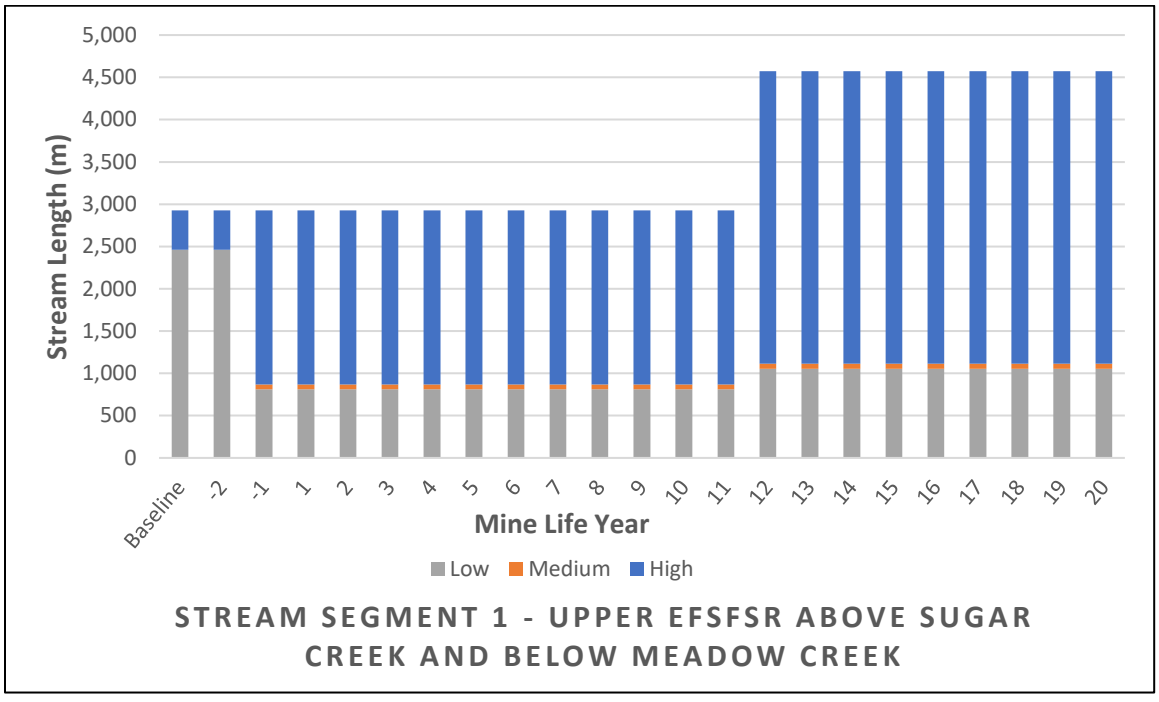



**Figure 13. Alternative 3 Stream Segment 1 (Upper EFSFSR above Sugar Creek and below Meadow Creek) IP Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

## 2.7 ALTERNATIVE 2 (MODIFIED PRO) STREAM SEGMENT 2 - MEADOW CREEK RESULTS

Under Alternative 2, stream segment 2 (Meadow Creek) would lose nearly 38 percent of useable Chinook salmon habitat during the life of the mine, a loss of over 1,600m (**Figure 14**). Two events would impact Chinook salmon IP habitat in Meadow Creek (stream segment 2) under the Alternative 2 scenario: the diversions around the DRSF/TSF (Year -2) and the flow fluctuations during the filling of Hangar Flats pit lake (Years 13 to 19) (**Figure 14**).

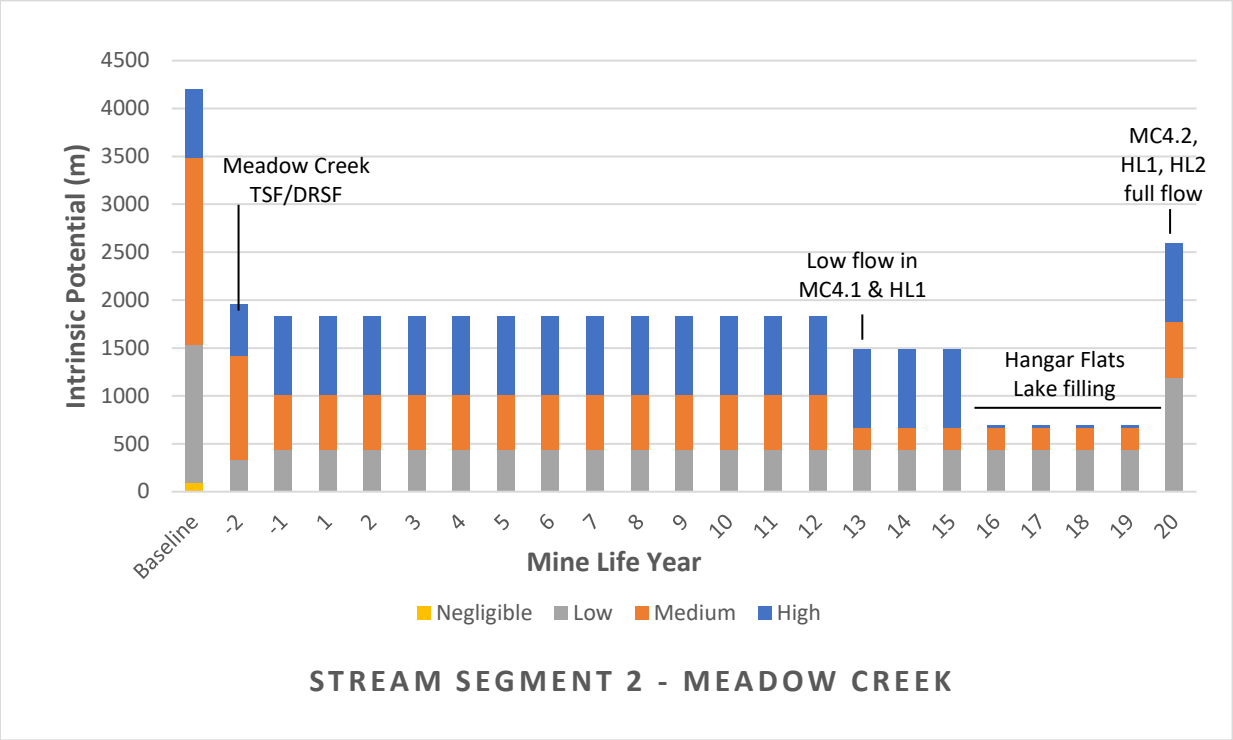



**Figure 14. Alternative 2 Stream Segment 2 (Meadow Creek) Intrinsic Potential Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

Steelhead IP habitat in stream segment 2, under Alt 2, would experience an initial decrease due to the loss of stream habitat on the DRSF/TSF (Year -2) (**Figure 15**). Steelhead habitat would remain relatively consistent within Meadow Creek from years negative 2 to 16 (**Figure 15**). In Year 17, with the reclamation of Meadow Creek on the DRSF/TSF, useable steelhead habitat would increase by over 700m in stream segment 2 above baseline conditions, a 16 percent increase (**Figure 15**). However, the reclaimed portions of Meadow Creek on top of the TSF would not have any volitional passage.

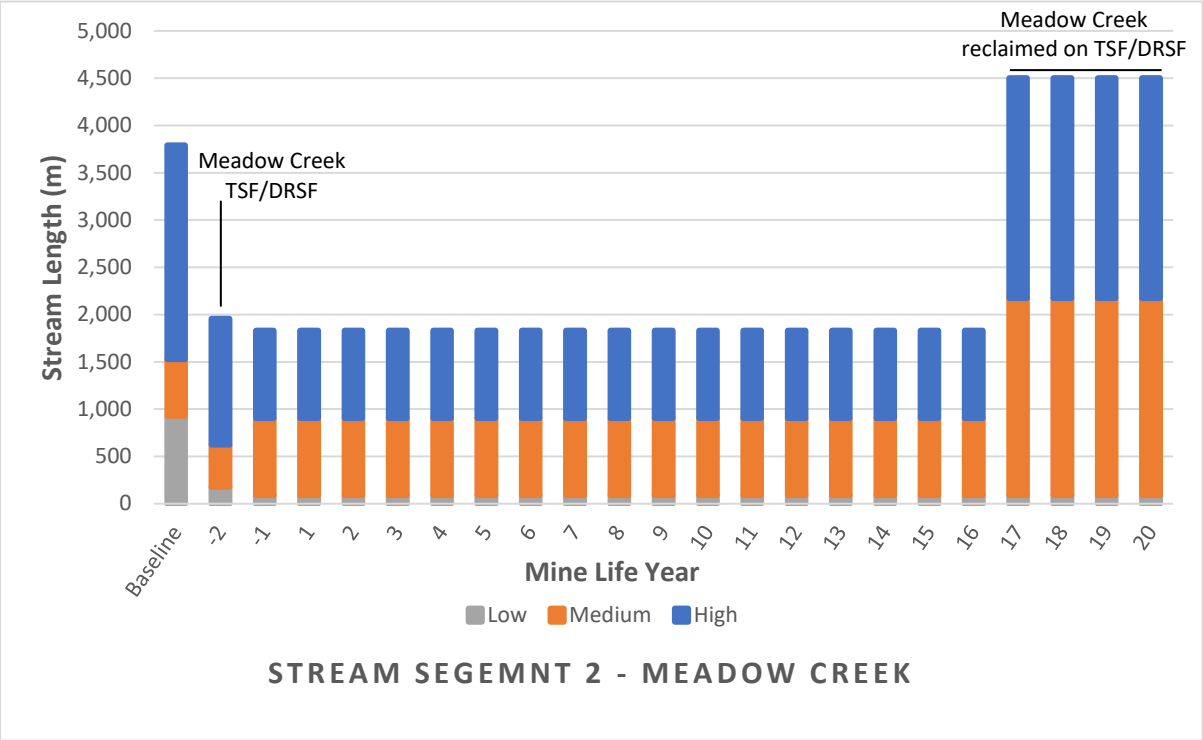



**Figure 15. Alternative 2 Stream Segment 2 (Meadow Creek) Intrinsic Potential Rating Results for Steelhead during the Life of the Mine (Baseline through Year 20)**

## 2.8 ALTERNATIVE 3 (UPPER EFSFSR TSF) STREAM SEGMENT 2 - MEADOW CREEK RESULTS

Under Alternative 3, stream segment 2 would lose nearly 83 percent of useable Chinook salmon habitat, a loss of over 3,000m (**Figure 16**). Streamflow alterations beginning in Year -2, equating to wetted width decreases, would limit Chinook salmon IP habitat in stream segment 2 (Meadow Creek) (Rio ASE 2019—Alternative 3 data) (**Figure 16**). Flow fluctuations associated with the filling of Hangar Lake (Years 13 to 17) cause further Chinook salmon useable IP habitat reductions in stream segment 2 (**Figure 16**). Finally, the loss of SFA reaches HL1 and HL2 due to rerouting of Meadow Creek into Hangar Flats Lake in Year 17 would further limit the available useable Chinook salmon IP habitat in Meadow Creek (stream segment 2) (**Figure 16**).

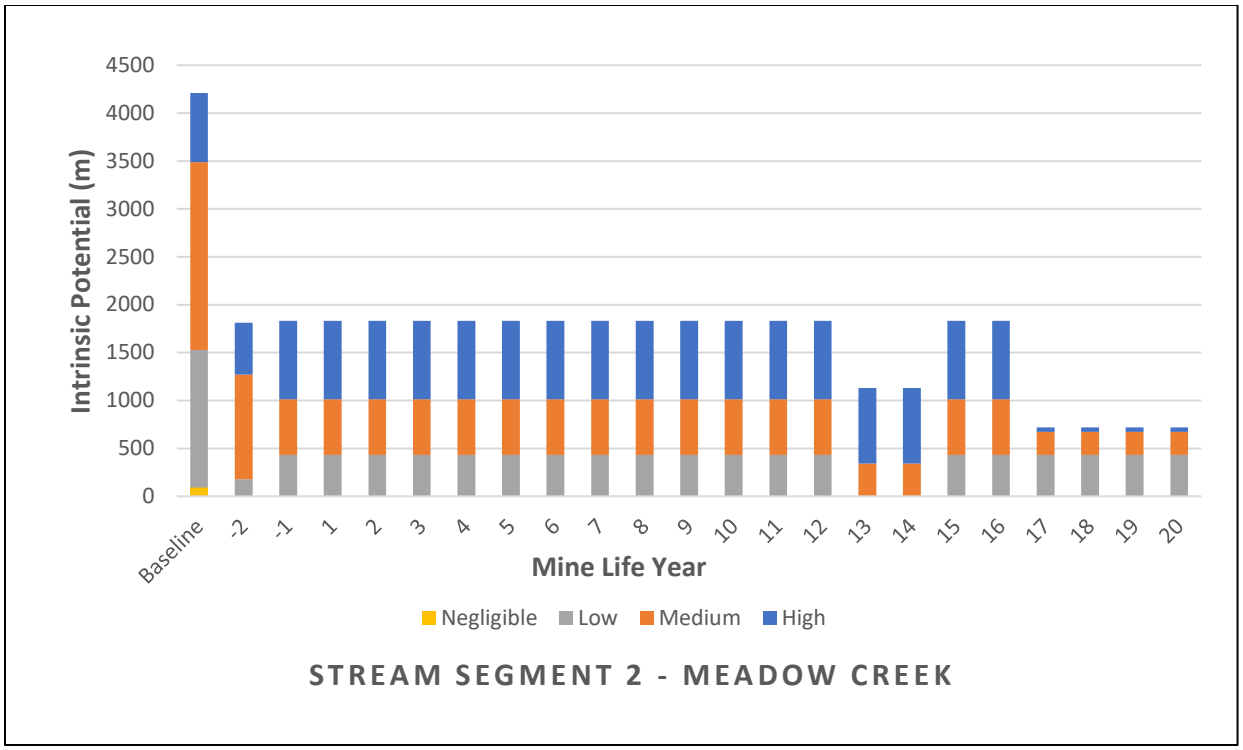



**Figure 16. Alternative 3 Stream Segment 2 (Meadow Creek) Intrinsic Potential Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

Steelhead habitat would decrease in stream segment 2 (Meadow Creek) under Alternative 3. In stream segment 2, from Year -2 to Year 16 (**Figure 17**), steelhead IP habitat would remain relatively consistent. Once Hangar Lake is filled in Year 17, useable steelhead habitat would decrease roughly 1,200m (33 percent) in Meadow Creek from baseline conditions (**Figure 17**). This loss would be primarily associated with HL1 and HL2 being decommissioned and Meadow Creek being routed into Hangar Flats lake.

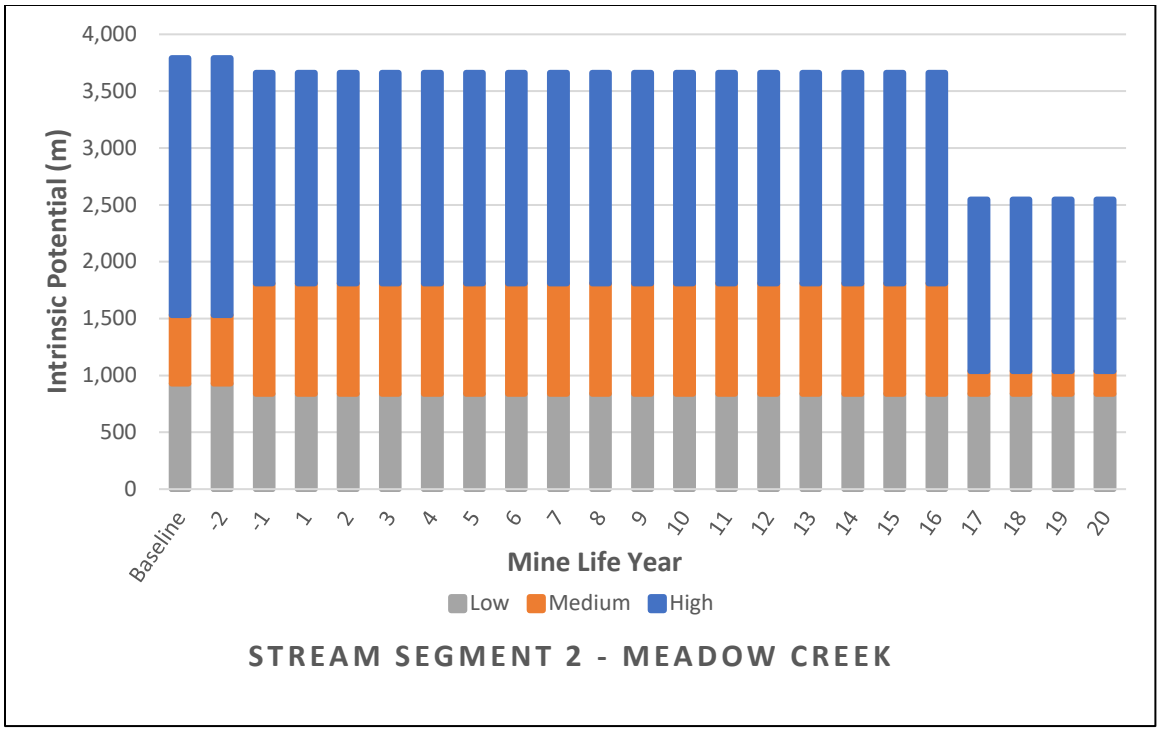



**Figure 17. Alternative 3 Meadow Creek Intrinsic Potential Rating Results for Steelhead during the Life of the Mine (Baseline through Year 20)**

## 2.9 ALTERNATIVE 2 (MODIFIED PRO) STREAM SEGMENT 3 - UPPER EFSFSR ABOVE MEADOW CREEK RESULTS

Under Alternative 2, mine activities would not impact the stream segment 3 (Upper EFSFSR above Meadow Creek) as much as other stream segments; habitat would be almost unchanged. The only event that would affect habitat for the two species in stream segment 3 is the enhancement of SFA reach EF1. EF1 is a 570m reach extending upstream from the confluence with Meadow Creek. Enhancement would not change the slope of the 30 segments in the reach; therefore, changes to IP habitat for both species would be minimal (**Figures 18** and **19**).

Under Alternative 2 scenario, there would be no change in usable habitat for Chinook salmon in stream segment 3, only a shift in habitat classification; 105m of medium habitat would be reduced to low in Year -1 (**Figure 18**). This 105m change would remain in year 20.

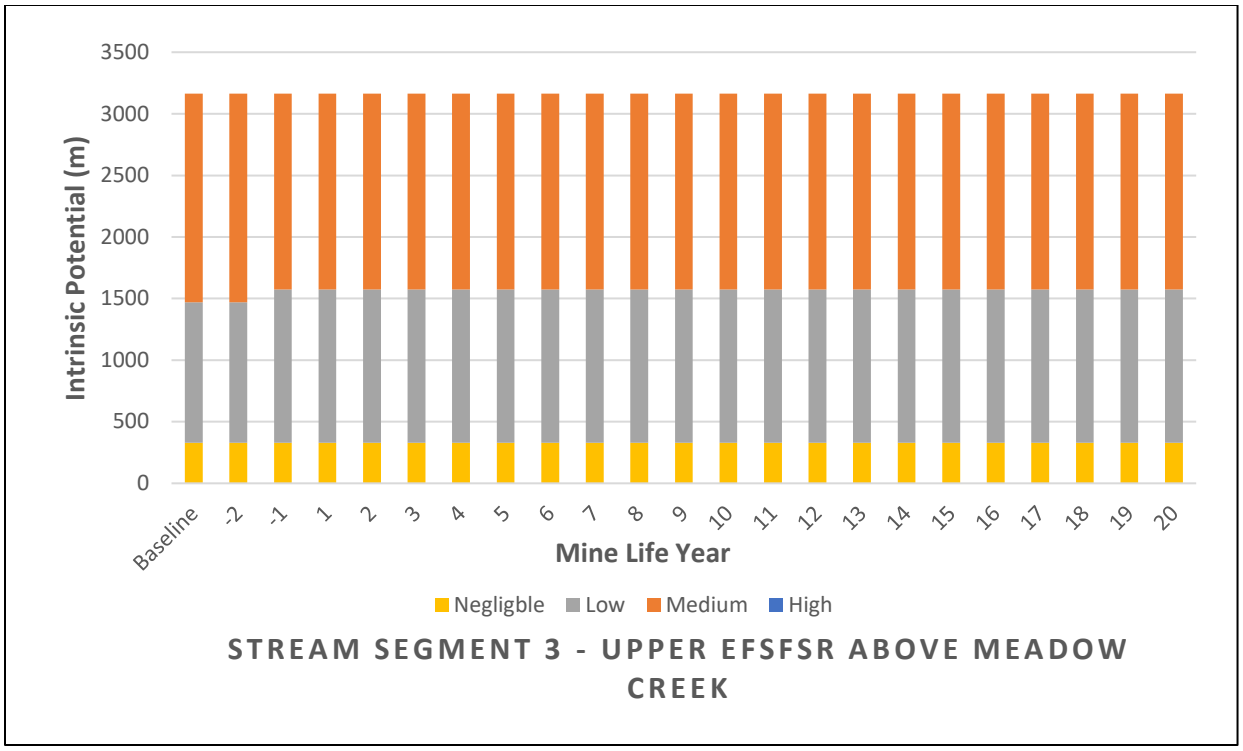



**Figure 18. Alternative 2 Stream Segment 3 (Upper EFSFSR above Meadow Creek) Intrinsic Potential Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

Under Alternative 2, Steelhead IP habitat in stream segment 3 (Upper EFSFSR above Meadow Creek) would experience a slight decrease in habitat as 90m of low-rated habitat would be changed to "none" in Year -1 (**Figure 19**). This loss of low rated IP habitat would result in a 4 percent decrease in useable steelhead IP habitat in stream segment 3 (Upper EFSFSR above Meadow Creek) (**Figure 19**).

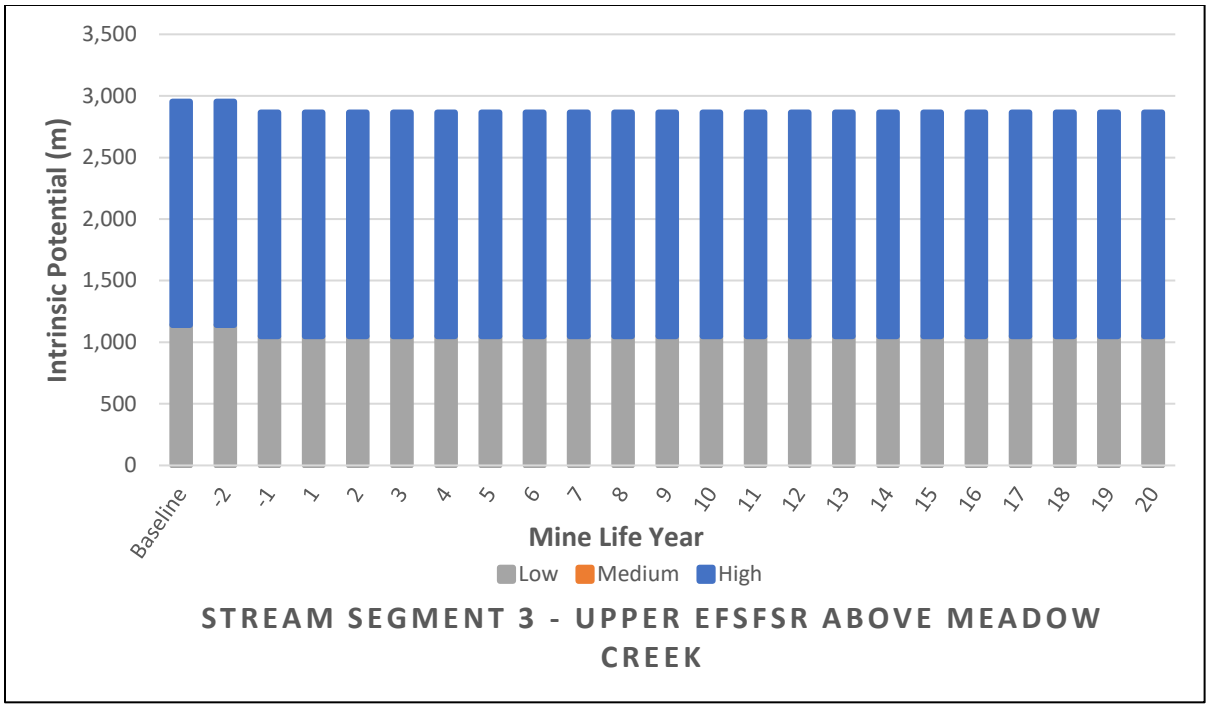



**Figure 19. Alternative 2 Stream Segment 3 (Upper EFSFSR above Meadow Creek) Intrinsic Potential Rating Results for Steelhead during the Life of the Mine (Baseline through Year 20)**

The cause of these slight shifts in IP habitat for the two species is the enhancement design's average bank full width for SFA reach EF1 (Rio ASE 2018). The enhancement design for SFA Reach EF1 has an average bank full width of 5.3 (Rio ASE 2018), which is roughly 0.3m more than the baseline bank full width (Ecosystem Sciences 2019a). Applying this bank full measure changes the Valley Width Ratio to below 4.0 (**Table 1**) for several of the enhanced 30m segments of EF1 initiating shifts in IP habitat classifications for the two species.

## 2.10 ALTERNATIVE 3 (UPPER EFSFSR TSF) STREAM SEGMENT 3 - UPPER EFSFSR ABOVE MEADOW CREEK RESULTS

Alternative 3 mine activities impact stream segment 3 (Upper EFSFSR above Meadow Creek) considerably, as the TSF is proposed to be constructed in the drainage. To accommodate the TSF, portions of the Upper EFSFSR above Meadow Creek (stream segment 3) would be diverted for much of the life of the mine (Years -2 to 17) (**Figures 20** and **21**). The Upper EFSFSR above Meadow Creek would experience enhancement in Year -1, which would alter IP habitat classifications for the two species. Re-creation of the Upper EFSFSR through stream segment 3, in Year 17 would impact Chinook salmon IP habitat more than steelhead IP habitat (**Figures 20** and **21**). Streamflow projections indicate that wetted widths in the restored portions of the Upper EFSFSR above Meadow Creek would be insufficient to support Chinook salmon spawning and early rearing habitat (Rio ASE 2019 – Alternative 3 data, Cooney and Holzer 2006).

Under Alternative 3, stream segment 3 (Upper EFSFSR above Meadow Creek) would lose nearly 76 percent of its useable Chinook salmon habitat, a loss of over 2,700m (**Figure 20**). As mentioned above diversions (Year -2 to Year 17) and insufficient streamflow (post re-creation—

Year 17 to Year 20), equate to wetted width decreases, limit Chinook salmon IP habitat in stream segment 3 (Upper EFSFSR above Meadow Creek) (Rio ASE 2019 – Alternative 3 data) (**Figure 20**).

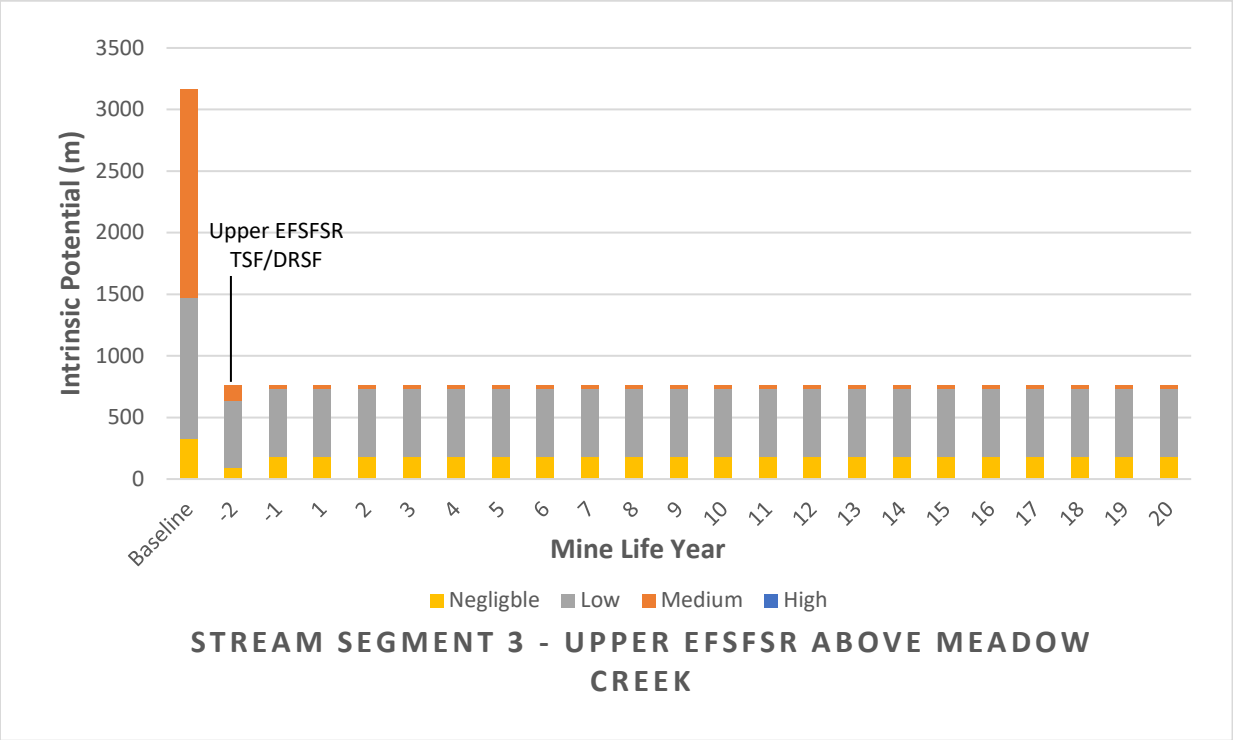



**Figure 20. Alternative 3 Stream Segment 3 (Upper EFSFSR above Meadow Creek) Intrinsic Potential Rating Results for Chinook Salmon during the Life of the Mine (Baseline through Year 20)**

Steelhead IP habitat in stream segment 3 (Upper EFSFSR above Meadow Creek) would decrease 334m over the life of the mine under Alternative 3, an 11.3 percent decrease over baseline conditions (**Figure 21**). Re-creation of the Upper EFSFSR above Meadow Creek (stream segment 3) increases the extent steelhead IP habitat, in the stream segment over previous mine years, but not over baseline condition (**Figure 21**). Diversions in support of the TSF limit steelhead IP habitat in Year -2 through Year 17 (**Figure 21**). Following recreation of the Upper EFSFSR on the TSF in stream segment 3, the amount of useable steelhead IP habitat increases yet less than baseline conditions (**Figure 21**). However, the reclaimed Upper EFSFSR on top of the TSF would not have volitional passage.

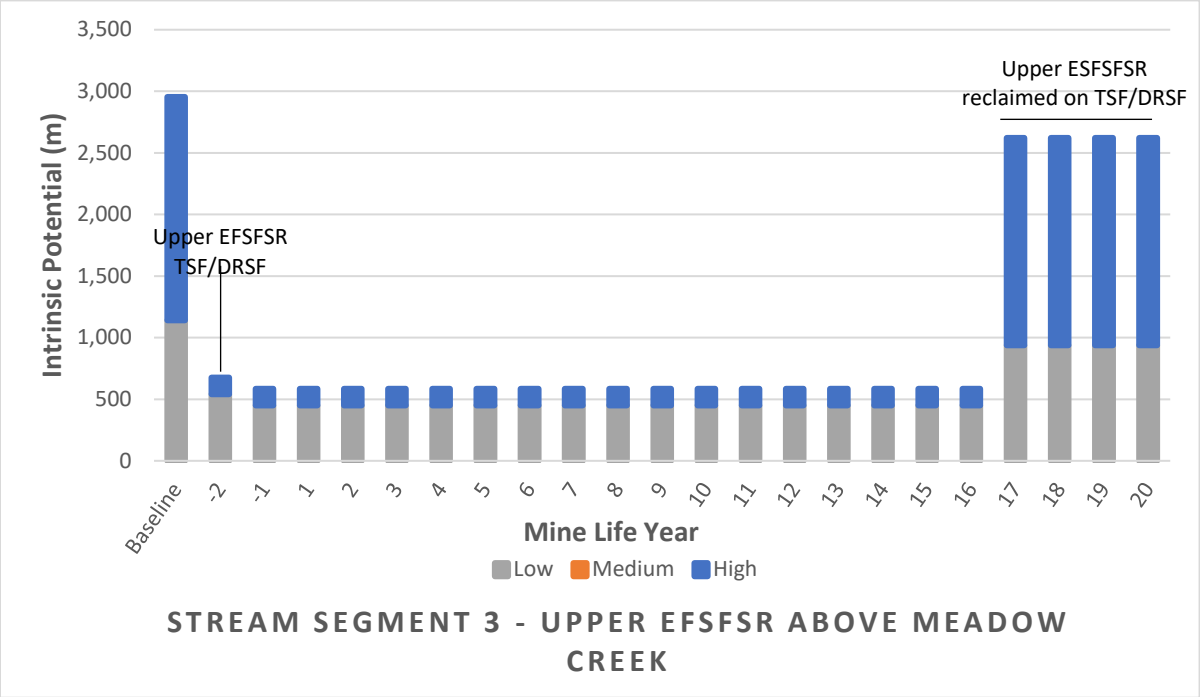



**Figure 21. Alternative 3 Stream Segment 3 (Upper EFSFSR above Meadow Creek) Intrinsic Potential Rating Results for Steelhead during the Life of the Mine (Baseline through Year 20)**

# 3.0 SUMMARY

Overall, at the end of the life of the mine, once all streams are in their final location, Alternative 2 would provide greater quantity and quality of IP habitat for Chinook salmon and steelhead than Alternative 3 (**Tables 6** and **7**). In terms of Chinook salmon, Alternative 2 would provide roughly 4,244m more usable IP habitat than under the Alternative 3 scenario (**Table 6**). Alternative 2 mine and stream recreation/enhancement actions would result in an additional 770m of high-rated IP habitat, 1,903m more medium-rated habitat, an additional 1,331m of low-rated habitat, and an additional 240m of negligible-rated IP habitat than Alternative 3 (**Table 6**).

**Table 6. Comparison of change in Chinook salmon IP habitat between Alternative 2 and Alternative 3.**

| Chinook IP | Baseline (m) | Alt 2 | Alt 3 | Alt 2 – Alt 3 |
|---|---|---|---|---|
| | | Year 20 (m) | Year 20 (m) | Difference (m) |
| High | 838.8 | 994.5 | 224.5 | 770.0 |
| Medium | 7287.3 | 5700.5 | 3798 | 1,902.5 |
| Low | 8744.4 | 9997.4 | 8666.3 | 1,331.1 |
| Negligible | 1739.7 | 989.8 | 749.8 | 240.0 |
| Useable | 18610.3 | 17682.2 | 13438.6 | 4,243.6 |

Similar to Chinook salmon, Alternative 2 would provide more usable steelhead IP habitat (1,488m) than Alternative 3 (**Table 7**). Alternative 2 would provide a greater extent of high and medium rated IP habitat (**Table 7**). Alternative 3 would provide a greater extent of low-rated IP habitat compared to Alternative 2, but the overall extent of usable IP habitat is less in Alternative 3 (**Table 7**). However, the reclaimed streams from each alternative on top of the TSF would not have volitional passage.

**Table 7. Comparison of change in steelhead IP habitat between Alternative 2 and Alternative 3**

| Steelhead IP | Baseline | Alt 2 | Alt 3 | At2 – Alt 3 |
|---|---|---|---|---|
| | | Year 20 | Year 20 | Difference |
| High | 8042.5 | 11103.7 | 10155.5 | 948.2 |
| Medium | 601.6 | 2146.2 | 259.2 | 1,887.0 |
| Low | 9254.2 | 6918.9 | 7556.9 | -638.0 |
| Useable | 17898.3 | 20168.8 | 17971.6 | 2,197.2 |

# 4.0 REFERENCES

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Ecosystem Sciences. 2019a. Existing Conditions Intrinsic Potential Model – Stibnite Gold Project.

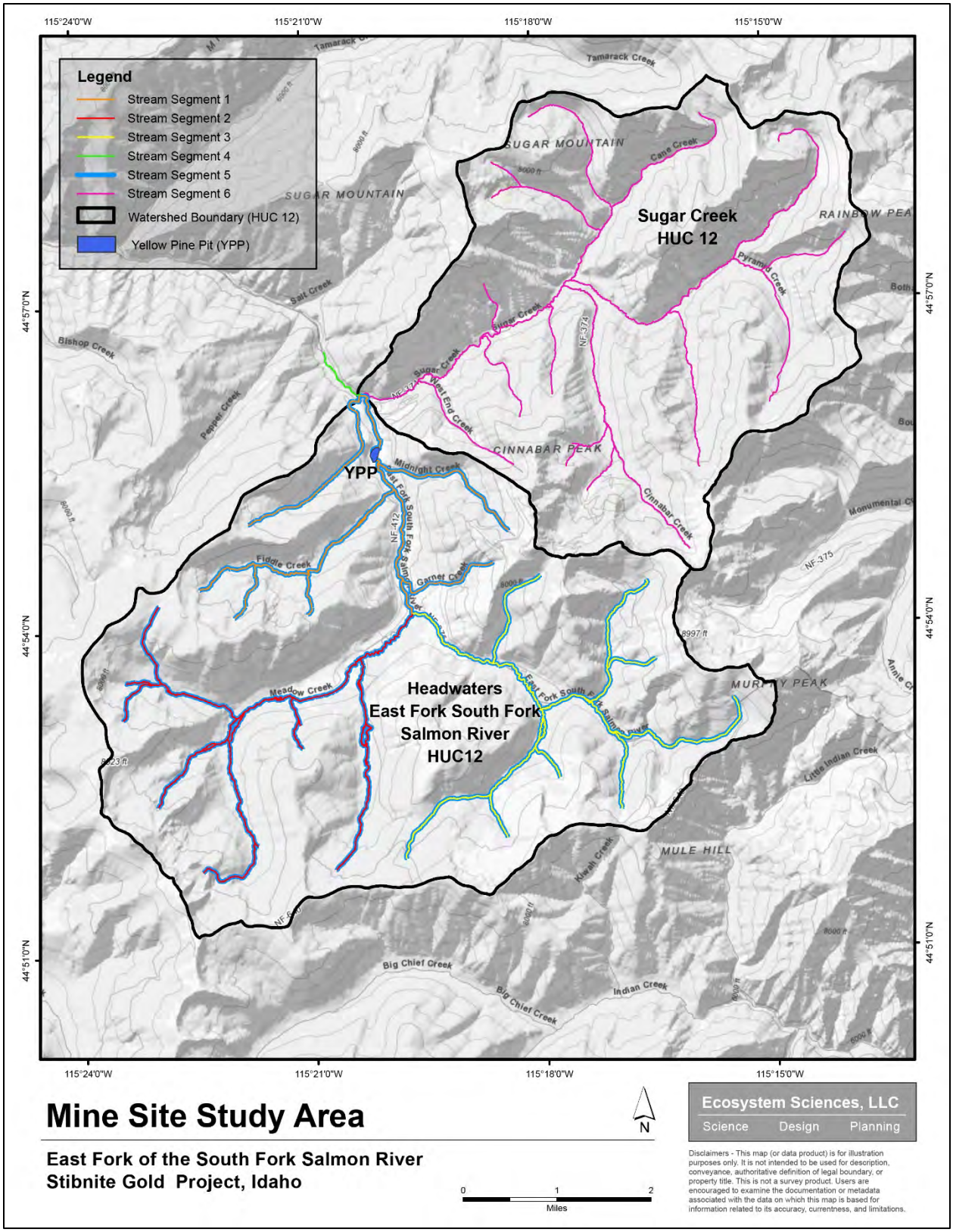
Ecosystem Sciences. 2019b. Proposed Action Intrinsic Potential Model – Stibnite Gold Project.

Rio ASE. 2018. Draft Stream Design Report; Stibnite Gold Project Midas Gold Idaho, Inc.

Rio ASE. 2019. IP Model Baseflow SFA Summary 011719.xlsm.

# APPENDIX A – STREAM SEGMENT DELINEATION AND DESCRIPTION

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Legend
Stream Segment 1
Stream Segment 2
Stream Segment 3
Stream Segment 4
Stream Segment 5
Stream Segment 6
Watershed Boundary (HUC 12)
Yellow Pine Pit (YPP)
Sugar Creek
HUC 12
Headwaters
East Fork South Fork
Salmon River
HUC12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
MURRAY PEAK
MULE HILL
RAINBOW PEAK
Tamarack Creek
Cane Creek
Pyramid Creek
Butter Creek
Sugar Creek
West End Creek
Cinnabar Creek
Salt Creek
Bishop Creek
Pepper Creek
Midnight Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Kiwalt Creek
Big Chief Creek
Indian Creek
Little Indian Creek
NF-374
NF-375
NF-412
115°24'0"W
115°21'0"W
115°18'0"W
115°15'0"W
44°57'0"N
44°54'0"N
44°51'0"N
Mine Site Study Area
East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
0
1
2
Miles
Ecosystem Sciences, LLC
Science Design Planning
Disclaimers - This map (or data product) is for illustration purposes only. It is not intended to be used for description, conveyance, authoritative definition of legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation or metadata associated with the data on which this map is based for information related to its accuracy, currentness, and limitations.

- **Stream segment 1** includes the Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream segment 2** includes the entirety of the Meadow Creek drainage area.
- **Stream segment 3** includes the Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream segment 4** includes the modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream segment 5** covers the entirety of the HUC 12 "Headwaters East Fork South Fork Salmon River" (Figure 1). Stream segment 5 is the summation of stream segments 1, 2 and 3.
- **Stream segment 6** includes the Sugar Creek drainage area, or the HUC 12 "Sugar Creek" (Figure 1).

# Appendix J-5: Chinook Salmon Streamflow/Productivity Technical Memorandum

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# CHINOOK SALMON FLOW-PRODUCTIVITY ANALYSIS

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

## Ecosystem Sciences

Science · Planning · Design

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Prepared for: AECOM

Project Title: Stibnite Gold Stibnite Project

## Technical Memorandum

Subject: Chinook Salmon Flow-Productivity Analysis

Date: December 2019

To: AECOM

From: Ecosystem Sciences

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## ACRONYMS, ABBREVIATIONS AND DEFINITIONS

| | |
|---|---|
| cfs | Cubic Feet per Second |
| EFSFSR | East Fork of the South Fork of the Salmon River |
| ESU | Evolutionary Significant Unit – a population of organisms that is considered distinct for purposes of conservation |
| IP | Intrinsic Potential – the reach-scale stream attributes (gradient, stream size, and valley constraint) that influence availability of the fine-scale habitat features (e.g., pools, spawning gravel, and large wood) preferred by salmonids |
| MC-6 | Stream Functional Assessment reach on Meadow Creek site in the Stibnite Gold Project area |
| NMFS | National Marine Fisheries Service |
| NOAA | National Oceanic and Atmospheric Administration |
| Project | Stibnite Gold Project |
| SFA | Stream Functional Assessment |
| SODA | Spent Heap Leach Ore Disposal Area |
| TSF/DRSF | Tailing Storage Facility/ Development Rock Storage Facility |
| USGS | U.S. Geological Survey |
| YPP | Yellow Pine Pit |

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# 1.0 INTRODUCTION

To examine the effects of predicted flow changes associated with the Stibnite Gold Project (project) on Snake River spring/summer-run Chinook salmon evolutionarily significant unit (ESU) *(Oncorhynchus tshawytscha*), a flow-productivity model developed by the National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS), was employed. The NOAA model was developed based on detailed data collected in a nearby watershed. As it was applied to this project, the flow-productivity model examines Chinook salmon productivity based on predicted streamflow changes associated with each of the project's alternatives in the mine site area. The NOAA flow-productivity model's methods, data employed, regression equations, and other details are included in the October 9, 2018 memorandum from Jim Morrow to Johnna Sandow (NOAA, 2018a). The memorandum states that flow during summer month may be most critical for rearing Chinook salmon, and that flow during the fall/winter may also be important (NOAA 2018a). The NOAA memorandum (**Appendix A**) was accompanied by a spreadsheet (**Appendix B**) that contained the regression equations, and calculated the percent change in productivity based on flow changes (NOAA 2018b).

The results of this analysis provide a tool to evaluate the likely impacts of flow modification that would result from the project on Chinook salmon productivity. The output of this model is the predicted percent change in productivity. This is not an absolute measure; rather, it provides a relative measure of the effect of modified stream flows on Chinook salmon productivity under each alternative.

# 2.0 METHODS

The regression equations used in the analysis were derived from detailed data collected on Johnson Creek, a nearby watershed where Chinook salmon have been intensively monitored by the Nez Perce Tribe. The flow-productivity relationships in the model reflect those that have been observed on Johnson Creek. No such data exist in the project mine site; therefore, the Johnson Creek model was applied to monthly percent change in flow at U.S. Geological Survey (USGS) gage locations and one Stream Functional Assessment (SFA) reach (Meadow Creek: MC-6) in a strategic location in the mine site (**Table 1 and Figure 1**). Each site represents all or part of a stream segment depicted in **Figure 1**. A description of how to apply each site's data to a geographic area is described in Section 3.0.

Flow data were obtained from modeling data associated with the project and supplied to Ecosystem Sciences by Rio ASE (**Appendix C**). The monthly percent change in flow from existing conditions (Baseline) (based on the long-term record) for each mine year (Year -2 to Year 20) were used in the analysis. For the post-closure mine years (Year 21 to Year 118), the mean change in flow for each month over the post-closure period was used to represent this time period. Therefore, the post-closure productivity is reduced to one value, rather than 97 values (Year 21 to Year 118). For each mine year, the 12-month period began in March (based on the March after-spawning, brood year +1) and ended the following February (brood year +2). The reported change in productivity is associated with the mine year in which the 12-month period begins.

The regression equations and final change in adult productivity (also referred to as whole life-cycle productivity) were computed by adapting the flow data to the Johnson Creek Worksheet supplied by NOAA[1]. The monthly percent change in flow from the long-term average[2] for each mine year was used, while the annual flow change was not. The equations and computation of change in annual productivity were not modified from the NOAA spreadsheet; only the percent change in monthly flow was modified to fit the modeled changes in flow associated with the project. The NOAA memorandum details changes in flow in certain months (e.g., July, August, and October) that have a stronger relationship with whole life-cycle productivity than other months; that annual flow can be used, and that the relationship is density-dependent. Estimating the number of spawners in each reach of the mine site would be difficult to accurately produce. Scaling the number of spawners based on the amount of Intrinsic Potential (IP) habitat of each reach in relation to Johnson Creek was considered, but not employed. Rather than modify the NOAA spreadsheet, and select only those months with the strongest relationships, all 12 months were used. Therefore, the changes in productivity should be viewed as relative measures, not precise estimates. One could interpret the results as how Johnson Creek would respond to the predicted changes in the mine site for each project alternative, rather than an absolute measure of mine site reach productivity changes.

[1] Flow-productivity relationships were computed by using the equations and computations in "20181009JohnsonFlowWorksheet.xlsx," supplied by NOAA.

[2] Percent change flow data were obtained from Rio ASE in a spreadsheet titled "Modflow_Alternatives_Summary_08192019.xlsx," which integrated the MODFLOW modeling data (Brown and Caldwell, 2018; 2019) with the long-term monthly flow values for six USGS gaging stations and one SFA reach (MC-6).

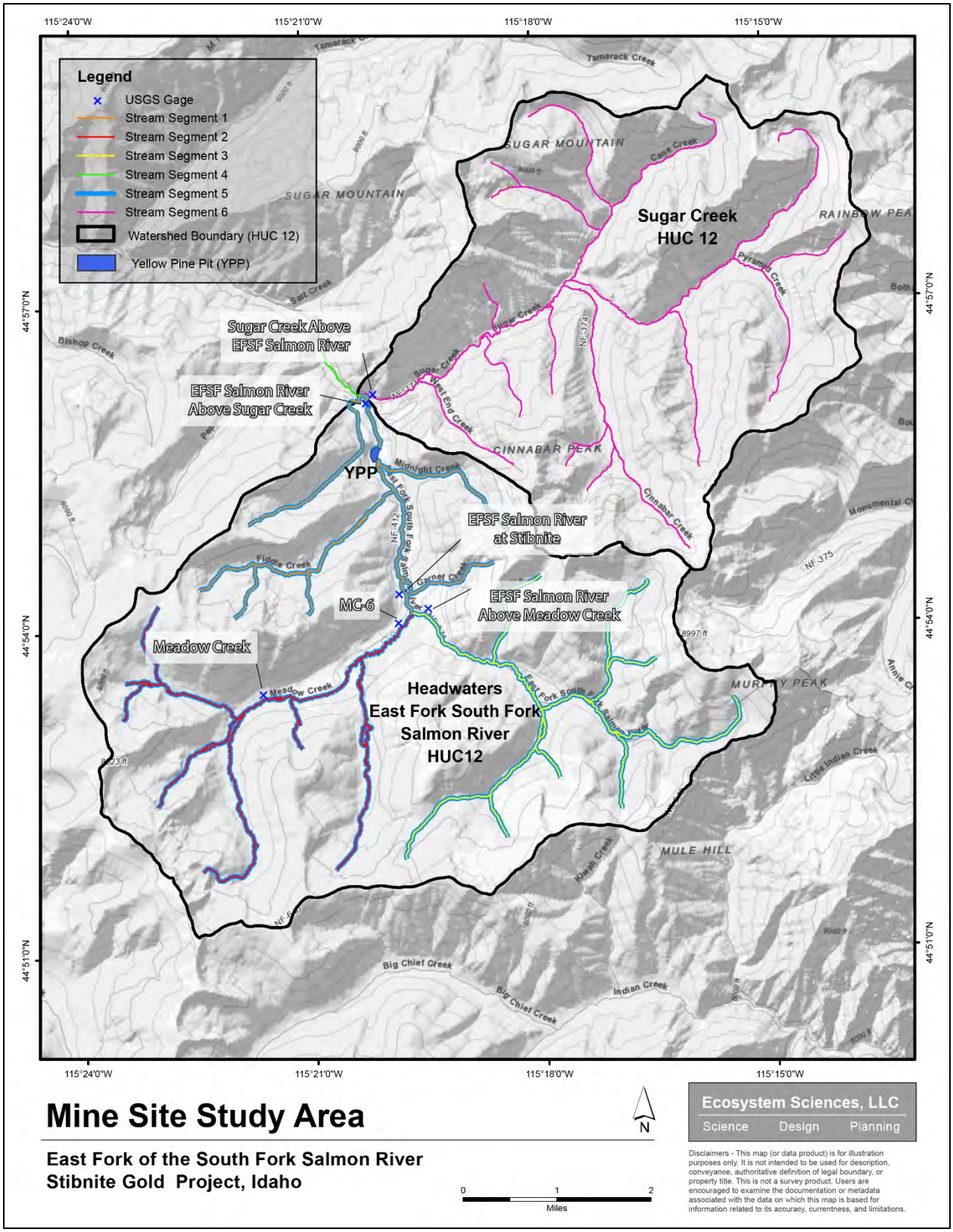



**Figure 1. Map of USGS Gage Sites and Location of MC-6**

**Table 1: Long-term (1929-2017) Average Monthly Discharge (in cubic feet per second [cfs]), Location, and Watershed Area (square miles) at USGS Gaging Stations and One SFA Reach (MC-6) where the Productivity Model was Applied to the Percent Change in Monthly Flow Predicted to Occur as a Result of each Alternative**

| | | USGS Gage ID | 13311250 | 13311000 | 13311450 | 13310800 | 13310850 | N/A |
|---|---|---|---|---|---|---|---|---|
| | | Latitude | 44.93476 | 44.90578 | 44.93566 | 44.90211 | 44.88955 | 44.900575 |
| | | Longitude | -115.33668 | -115.32962 | -115.3361 | -115.32576 | -115.36018 | -115.329301 |
| | | Watershed Area | 24.07 | 19.28 | 17.94 | 9.06 | 5.66 | 10.09 |
| Average Monthly Discarge | 1929-2017 | Month | EFSFSR US of SC | EFSFSR DS of MC | SC US of EFSFSR | EFSFSR US of MC | MC US of EFSFSR | MC-6 |
| | | January | 9.9 | 8.0 | 6.5 | 3.5 | 2.3 | 4.2 |
| | | February | 9.5 | 7.7 | 6.4 | 3.3 | 1.9 | 3.8 |
| | | March | 10.5 | 8.7 | 7.3 | 3.4 | 2.2 | 4.3 |
| | | April | 24.3 | 19.8 | 15.8 | 6.5 | 6.7 | 11.0 |
| | | May | 116.4 | 82.8 | 66.2 | 40.7 | 37.5 | 52.2 |
| | | June | 138.9 | 116.8 | 80.6 | 48.2 | 48.8 | 70.9 |
| | | July | 42.6 | 38.7 | 29.9 | 14.8 | 13.9 | 22.0 |
| | | August | 17.3 | 15.4 | 12.5 | 7.3 | 4.1 | 7.7 |
| | | September | 13.1 | 11.9 | 9.0 | 5.7 | 3.0 | 5.9 |
| | | October | 12.6 | 11.5 | 8.3 | 5.3 | 3.1 | 5.8 |
| | | November | 12.8 | 10.8 | 8.3 | 4.6 | 3.4 | 5.8 |
| | | December | 11.0 | 9.0 | 7.2 | 3.7 | 2.8 | 4.8 |

*Data from Rio ASE spreadsheet: Modflow_Alternatives_Summary_08192019.xlsx (Brown and Caldwell, 2018; 2019).

# 3.0 MODEL RESULTS

The location of flow change calculation sites in the mine site and the mine site stream segments should be considered in an interpretation of the results: mine site stream segments may contain two flow sites, and the availability of habitat in those segments would vary depending on mine year and alternative (for a description of the alternatives, refer to Chapter 3 of the EIS). These sites may be predicted to change by various degrees (i.e., one may be predicted to increase, while another may be predicted to decrease). For example, the Meadow Creek gage is upstream of the Spent Heap Leach Ore Disposal Area (SODA) on Meadow Creek (Stream Segment 2); and under Alternative 1 and Alternative 2, would be above the Tailing Storage Facility/ Development Rock Storage Facility (TSF/DRSF); therefore, the predicted reductions in productivity would be 100 percent, because the TSF/DRSF would be a total barrier to upstream fish passage. In the East Fork of the South Fork of the Salmon River (EFSFSR), the gage near Stibnite is at the upstream boundary of the stream segment (Stream Segment 1), upstream of the Yellow Pine Pit (YPP) and the bypass tunnel; while the EFSFSR upstream of Sugar Creek is downstream of these two features (Stream Segment 1) (**Figure 1**). Under certain alternatives, Stream Segment 1 is predicted to have increased flows at the top of the reach and decreased flows at the bottom of the reach in the same month. The access, amount of spawning habitat, and number of spawning fish all vary between sites and stream segments. However, the predicted change in productivity provides a relative measure of the effect of modified streamflows on Chinook salmon productivity under each alternative. It is also important to understand how flows in downstream reaches would be experienced by juvenile migrants. Therefore, none of the flows or productivity estimates can be viewed without placing juvenile migrants in the context of the greater mine site conditions.

Some general guidelines for the spatial application of productivity modeling results include:

1. The productivity analysis used was designed to represent the productivity of the Johnson Creek watershed, a relatively unaltered watershed compared to the Headwaters of the East Fork of the South Fork. It is also based on the number of spawning fish estimated to exist in Johnson Creek (this is important because changes in productivity are density dependent).
2. In Stream Segment 1 [Upper EFSFSR between Sugar Creek and Meadow Creek], the EFSFSR upstream of the Sugar Creek USGS gage approximately represents flows downstream of the YPP in this segment and the Upper EFSFSR at the site of Stibnite represents the part of this stream segment that is upstream of the YPP. Due to the Rapid Infiltration Basins, in certain mine years and alternatives, flows would be elevated at the Stibnite site; while due to the dewatering of the YPP, flows would be reduced upstream of the confluence with Sugar Creek.
3. In Meadow Creek, the Meadow Creek USGS Gage is where the TSF/DRSF would be under Alternative 1 and Alternative 2. Therefore, the productivity would go to zero, based on the slope of the face of the TSF preventing volitional fish passage. It roughly represents the Upper Meadow Creek area, which would be in and upstream of the TSF/DRSF. The MC-6 (SFA reach number) location approximately represents lower Meadow Creek downstream of the TSF and upstream of the confluence with Upper EFSFSR (although flows can vary in this reach due to groundwater pumping to dewater and then fill Hangar Flats Pit during mine operations).

4. The productivity estimates do not account for changes in quality or quantity of habitat, both of which would change through the mine life. The analysis is based on changes in flow, and assumes all other factors are held equal.
5. Changes in productivity are presented in percent change from existing conditions (Baseline). The results are generally rounded to the nearest tenth of a percent for ease of interpretation.
6. No measure of error in the estimates is provided. The $R^2$, F-statistic, and P-values are supplied in the NOAA memorandum (**Appendix A**).

## 3.1 ALTERNATIVE 1

### 3.1.1 Stream Segment 1

The model predicts Stream Segment 1 downstream of the YPP (represented by the EFSFSR upstream of Sugar Creek USGS gage) would have an average productivity decline of approximately 17.9 percent during the life of the mine (**Table 2** and **Figure 2**). The average change in productivity over the post-closure period would be 4.6 percent (**Table 2**). This reach would also experience changes in available habitat under the Proposed Action (PA, or Alternative 1).

Upstream of the YPP, represented by the EFSFSR at USGS Stibnite gage, the model predicts this part of the stream segment would have increased productivity for much of the first half of the mine life (Years 1 through 9, and Year 11); and would decrease the first two mine years and over much of the second half of the mine life (**Table 2**: note that all changes in productivity are in percent change from Baseline). Over the life of the mine, the average annual productivity would decrease 2.8 percent (**Table 2**). Post-closure, the productivity would increase 2.3 percent. The filling of the YPP and construction of a bypass tunnel, followed by a new channel being created over the current YPP location, further complicate the changes in this stream segment's productivity.

### 3.1.2 Stream Segment 2

Under Alternative 1, the largest impacts to productivity (**Table 2**) would be in Meadow Creek (Stream Segment 2, containing both the MC-6 site and the Meadow Creek site). The Meadow Creek site would be within the footprint of the TSF/DRSF, and therefore, the productivity would be reduced by 100 percent, because there would be no volitional fish passage to Upper Meadow Creek. Lower Meadow Creek, represented by the MC-6 site, would have an average annual decline of 24.9 percent over the life of the mine, with a maximum decrease of 50.8 percent. Post-closure, the productivity would increase by 3.5 percent (**Table 2** and **Figure 2**).

### 3.1.3 Stream Segment 3

The EFSFSR upstream of Meadow Creek (Stream Segment 3) is predicted to have an average annual increase in productivity of 1.8 percent over the mine life, and remain largely unchanged post-closure (**Table 2** and **Figure 2**).

### 3.1.4 Stream Segment 6

Sugar Creek follows the pattern of the EFSFSR upstream of Sugar Creek, with increased productivity in the first half of the mine life, and decreased productivity in the second half. The average annual change in productivity would be a decrease of 1.9 percent, and an average annual decrease of 4.9 percent post-closure (**Table 2** and **Figure 2**).

**Table 2. Flow-productivity Modeling Results for USGS Gaging Stations and SFA Reach MC-6 over the Life of the Mine and in Post-closure for Alternative 1. The Numbers Represent Annual Percent Change in Productivity from Baseline. The Post-closure Value Represents an Average Annual Percent Change in Productivity for Year 21 through Year 118**

| Alternative 1 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| Mine Year | 13310800 (EFSFSR upstream of Meadow Creek) | 13311000 (EFSFSR at Stibnite) | 13311250 (EFSFSR upstream of Sugar Creek) | 13311450 (Sugar Creek) | 13310850 (Meadow Creek) | Meadow Creek at SFA Reach MC-6 |
| -2 | 0.0 | -7.2 | -5.1 | 0.0 | -100 | -12.7 |
| -1 | 0.4 | -4.8 | -9.2 | 1.6 | -100 | -16.2 |
| 1 | 1.5 | 6.9 | -17.2 | 4.3 | -100 | -11.0 |
| 2 | 1.0 | 4.0 | -18.0 | 2.0 | -100 | -9.2 |
| 3 | 1.6 | 6.5 | -23.7 | 4.8 | -100 | -10.5 |
| 4 | 1.6 | 9.3 | -21.7 | 3.9 | -100 | -9.1 |
| 5 | 2.1 | 15.9 | -21.6 | 4.1 | -100 | -8.5 |
| 6 | 3.5 | 24.1 | -20.1 | 4.2 | -100 | -15.0 |
| 7 | 5.9 | 31.6 | -16.6 | 4.0 | -100 | -33.9 |
| 8 | 6.3 | 20.5 | -17.0 | 3.6 | -100 | -38.4 |
| 9 | 5.2 | 3.8 | -20.6 | 3.9 | -100 | -43.3 |
| 10 | 5.0 | -1.2 | -19.6 | 3.3 | -100 | -43.6 |
| 11 | 4.7 | 4.6 | -15.9 | 4.9 | -100 | -41.1 |
| 12 | 2.8 | -6.2 | -19.4 | -4.9 | -100 | -38.2 |
| 13 | 0.0 | -34.3 | -31.8 | -12.8 | -100 | -49.6 |
| 14 | -0.1 | -36.0 | -30.9 | -11.1 | -100 | -50.8 |
| 15 | -0.1 | -31.2 | -25.4 | -9.5 | -100 | -42.9 |
| 16 | -0.1 | -24.5 | -24.5 | -10.5 | -100 | -41.1 |
| 17 | -0.3 | -21.3 | -21.3 | -10.1 | -100 | -35.6 |
| 18 | -0.5 | -16.1 | -16.1 | -8.9 | -100 | -26.5 |
| 19 | 0.5 | -4.6 | -4.6 | -6.1 | -100 | -2.7 |
| 20 | -0.2 | -5.7 | -5.7 | -8.7 | -100 | 3.3 |
| Post-Closure | -0.2 | 2.3 | -4.6 | -4.9 | -100 | 3.5 |
| Mine Life Max | 6.3 | 31.6 | -4.6 | 4.9 | -100 | 3.5 |
| Mine Life Mean | 1.9 | -2.8 | -17.9 | -1.9 | -100 | -24.9 |
| Mine Life Min | -0.5 | -36.0 | -31.8 | -12.8 | -100 | -50.8 |

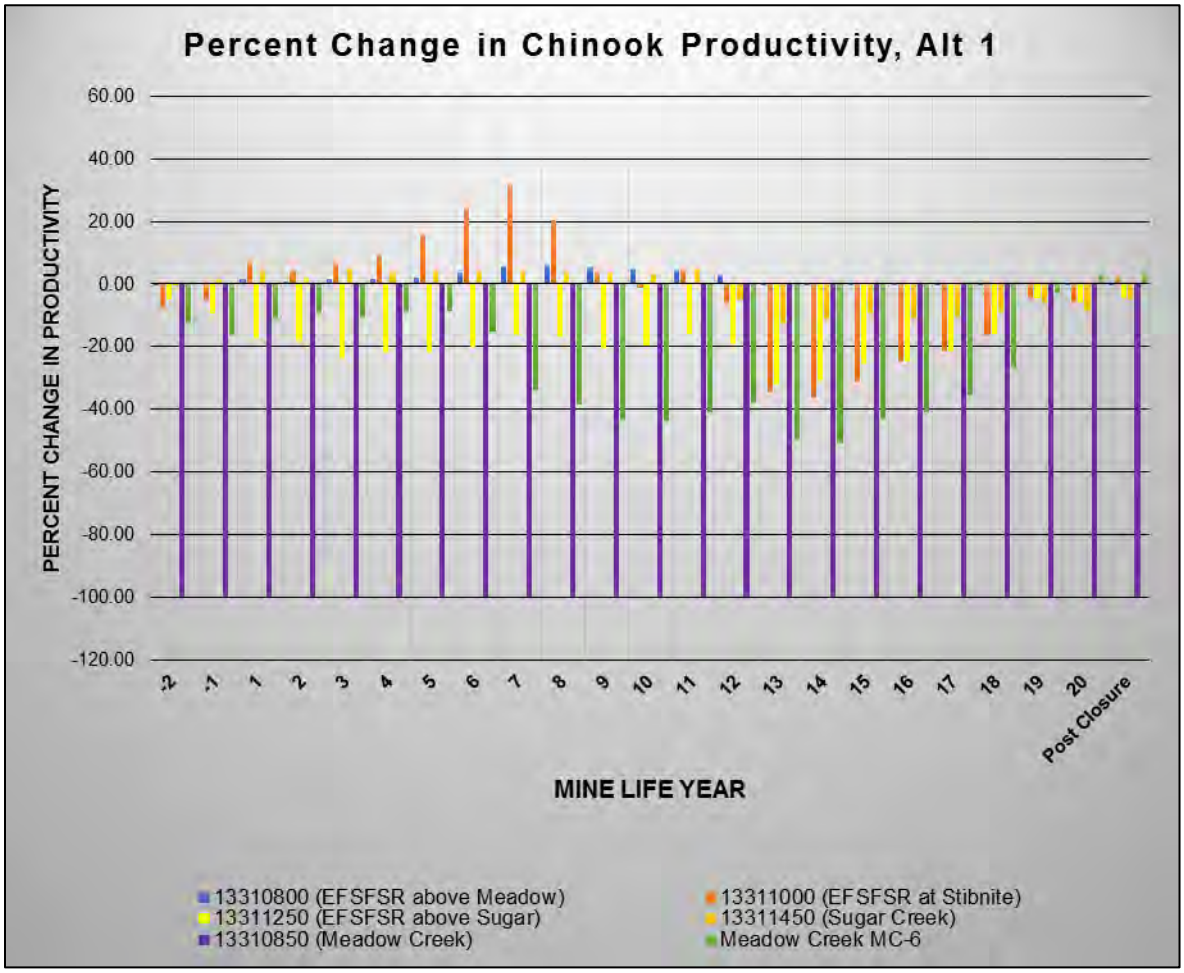



**Figure 2. Histogram of Site-specific Changes in Chinook Productivity under Alternative 1**

## 3.2 ALTERNATIVE 2

### 3.2.1 Stream Segment 1

The model predicts Stream Segment 1 downstream of the YPP (represented by the EFSFSR upstream of Sugar Creek gage) would have an average productivity decline of 8.5 percent during the life of the mine (**Table 3** and **Figure 3**). There would be reductions in productivity from Year -2 until Year 14, when productivity would be increased for the remainder of the life of the mine. The average change in productivity over the post-closure period would be an increase of 3.4 percent. This reach would also experience changes in available habitat under this alternative.

Upstream of the YPP, represented by the EFSFSR at Stibnite USGS gage, the model predicts a decrease in productivity for Years -2 and -1, followed by increased productivity for much of the first half of the mine life (Years 1 through 12). Years 13 through 20 would have 2 years with decreases, and 5 years of increases in productivity (**Table 3**). Over the life of the mine, the average annual productivity would increase 7.5 percent. Post-closure, the productivity would increase 4.0 percent. As noted previously, the filling of the YPP and construction of a bypass tunnel, followed by a new channel being created over the current YPP location, further complicate the changes in this stream segment's productivity.

### 3.2.2 Stream Segment 2

Under Alternative 2, the largest impacts to productivity (**Table 3** and **Figure 3**) would be in Meadow Creek (Stream Segment 2, containing both the SFA reach MC-6 and the Meadow Creek site). The Meadow Creek site would be within the footprint of the TSF/DRSF, and therefore, the productivity would be reduced by 100 percent, because there would be no volitional fish passage to Upper Meadow Creek. Lower Meadow Creek, represented by the MC-6 site, would have an average annual decline of 16.5 percent over the life of the mine, with a maximum decrease of just over 30.8 percent. There would be a decrease in productivity between Years -2 and 14. Productivity would increase for Years 15 through 20. Post-closure, the productivity would increase by 1.5 percent.

### 3.2.3 Stream Segment 3

The EFSFSR upstream of Meadow Creek (Stream Segment 3) would have increased productivity throughout the mine life and post-closure under Alternative 2. It would have an average annual increase in productivity of 4 percent over the mine life, and average annual increase in productivity of 2.3 percent post-closure (**Table 3** and **Figure 3**).

### 3.2.4 Stream Segment 6

Sugar Creek follows the pattern of the EFSFSR upstream of Sugar Creek gage with increased productivity in the first half of the mine life, and decreases in the second half of the mine life (**Table 3** and **Figure 3**). The average annual change in productivity would be a decrease of 0.8 percent, with an average annual decrease of 2.5 percent post-closure.

**Table 3. Flow-productivity Modeling Results for USGS Gaging Stations and SFA Reach MC-6 over the Life of the Mine and in Post-closure for Alternative 2. The Numbers Represent Annual Percent Change in Productivity from Baseline. The Post-closure Value Represents an Average Annual Percent Change in Productivity for Year 21 through Year 118**

| Alternative 2 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| Mine Year | 13310800 (EFSFSR upstream of Meadow Creek) | 13311000 (EFSFSR at Stibnite) | 13311250 (EFSFSR upstream of Sugar Creek) | 13311450 (Sugar Creek) | 13310850 (Meadow Creek) | Meadow Creek at SFA Reach MC-6 |
| **-2** | 2.3 | -5.4 | -2.3 | 2.2 | -100 | -13.2 |
| **-1** | 2.9 | -3.3 | -8.1 | 3.7 | -100 | -25.0 |
| **1** | 4.2 | 9.5 | -15.6 | 6.2 | -100 | -23.5 |
| **2** | 2.7 | 5.8 | -16.5 | 3.3 | -100 | -22.1 |
| **3** | 4.1 | 9.5 | -21.7 | 6.3 | -100 | -23.0 |
| **4** | 4.2 | 12.6 | -19.6 | 5.3 | -100 | -22.2 |
| **5** | 4.8 | 19.8 | -19.3 | 5.6 | -100 | -21.8 |
| **6** | 5.6 | 33.2 | -16.6 | 4.9 | -100 | -22.4 |
| **7** | 8.1 | 45.1 | -11.2 | 5.1 | -100 | -25.2 |
| **8** | 7.7 | 27.7 | -13.3 | 4.8 | -100 | -27.0 |
| **9** | 6.4 | 8.3 | -18.0 | 4.9 | -100 | -30.6 |
| **10** | 5.5 | 3.8 | -16.6 | 1.8 | -100 | -30.9 |
| **11** | 6.2 | 11.7 | -12.2 | 1.8 | -100 | -29.7 |
| **12** | 4.8 | 3.9 | -10.1 | -7.8 | -100 | -27.7 |
| **13** | 2.5 | -12.5 | -13.2 | -11.1 | -100 | -27.3 |
| **14** | 1.6 | -4.3 | -4.8 | -9.8 | -100 | -21.3 |
| **15** | 2.6 | 4.8 | 2.3 | -7.7 | -100 | 0.2 |
| **16** | 2.4 | -18.4 | 2.2 | -8.6 | -100 | 0.4 |
| **17** | 2.1 | 4.2 | 4.2 | -8.1 | -100 | 3.7 |
| **18** | 1.3 | 2.1 | 2.1 | -7.4 | -100 | 0.2 |
| **19** | 2.8 | 6.7 | 6.7 | -4.3 | -100 | 3.7 |
| **20** | 2.2 | 3.0 | 3.0 | -6.7 | -100 | 2.3 |
| **Post-Closure** | 2.3 | 4.0 | 3.4 | -2.5 | -100 | 1.5 |
| **Mine Life Max** | 8.1 | 45.1 | 6.7 | 6.3 | -100 | 3.7 |
| **Mine Life Mean** | 3.9 | 7.5 | -8.5 | -0.8 | -100 | -16.5 |
| **Mine Life Min** | 1.3 | -18.4 | -21.7 | -11.1 | -100 | -30.9 |

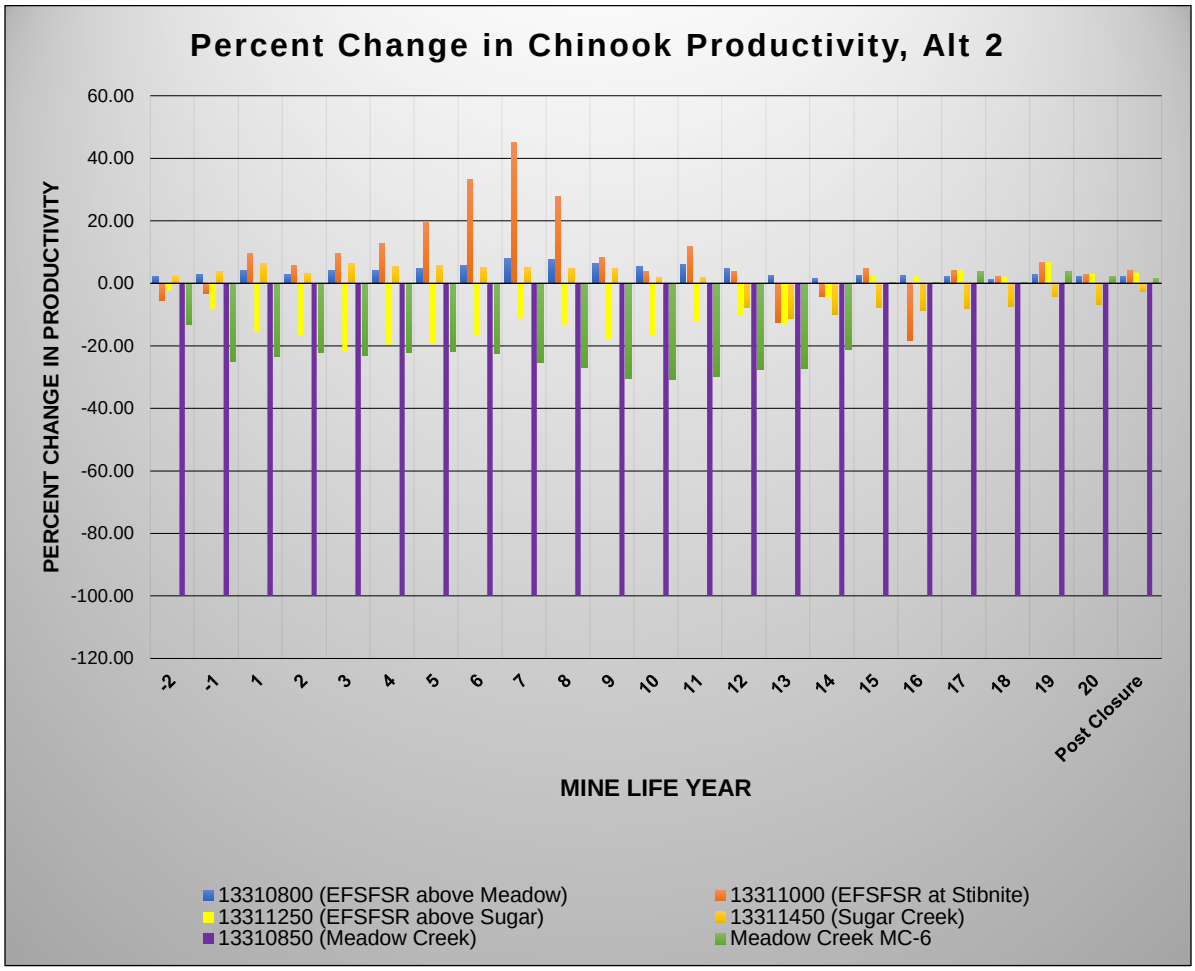



**Figure 3. Histogram of Site-specific Changes in Chinook Productivity under Alternative 2**

## 3.3 ALTERNATIVE 3

### 3.3.1 Stream Segment 1

The model predicts Stream Segment 1 downstream of the YPP (represented by the EFSFSR upstream of Sugar Creek USGS gage) would have an average productivity decline of 16.3 percent during the life of the mine (**Table 4** and **Figure 4**). There would be reductions in productivity from Year -2 until Year 17, when productivity would be increased for the remainder of the life of the mine. This reach would also experience changes in available habitat under this alternative. The average change in productivity over the post-closure period would be an increase of 4.0 percent.

Upstream of the YPP, represented by the EFSFSR at Stibnite USGS gage, the model predicts a decrease in productivity for Years -2 and -1, followed by increased productivity for much of the first half of the mine life (Years 1 through 8). Years 9 through 17 would have decreased productivity before an increase in productivity for Years 18 through 20 (**Table 4**). Over the life of the mine, the average annual productivity would decrease at this gage by 4.3 percent. Post-closure, the productivity would decrease 4.3 percent. The filling of the YPP and construction of a bypass tunnel, followed by a new channel being created over the current YPP location, further complicate the changes in this stream segment's productivity.

### 3.3.2 Stream Segment 2

Under Alternative 3, although the TSF/DRSF is not in Meadow Creek, there would still be impacts to Lower Meadow Creek (**Table 4** and **Figure 4**) due to the dewatering and subsequent filling of the Hangar Flats Pit. In Years 1 through 5 and 18 through 20, productivity would increase between 1.5 and 6.8 percent, with productivity reductions in all other mine years, with a maximum reduction of 53.2 percent. Post-closure productivity would increase by 4.8 percent. The Meadow Creek site would not be within the footprint of the TSF/DRSF under Alternative 3, and therefore, the productivity would be nearly unchanged from Baseline, with an average change in productivity of 0.8 percent.

### 3.3.3 Stream Segment 3

The EFSFSR upstream of Meadow Creek (Stream Segment 3) would have decreased productivity for Years -2 through 12 under Alternative 3. Years 13 through 20, productivity would be closer to Baseline (**Table 4** and **Figure 4**). This site would have an average annual decrease in productivity of 10.4 percent over the mine life, and an average annual increase in productivity of 0.6 percent post-closure (**Table 4**).

### 3.3.4 Stream Segment 6

Sugar Creek follows the pattern of the EFSFSR upstream of the Sugar Creek USGS gage with increased productivity in the first half of the mine life, and decreased productivity in the second half of the mine life (**Table 4** and **Figure 4**). The average annual change in productivity would be a decrease of 1.8 percent, with an average annual decrease of 2.5 percent post-closure.

**Table 4. Flow-productivity Modeling Results for USGS Gaging Stations and SFA Reach MC-6 over the Life of the Mine and in Post-closure for Alternative 3. The Numbers Represent Annual Percent Change in Productivity**

| Alternative 3 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| Mine Year | 13310800 (EFSFSR upstream of Meadow Creek) | 13311000 (EFSFSR at Stibnite) | 13311250 (EFSFSR upstream of Sugar Creek) | 13311450 (Sugar Creek) | 13310850 (Meadow Creek) | Meadow Creek at SFA Reach MC-6 |
| **-2** | -16.9 | -11.2 | -7.9 | 0.0 | 2.8 | -5.7 |
| **-1** | -16.9 | -6.2 | -10.3 | 0.0 | 2.5 | -3.5 |
| **1** | -20.3 | 1.4 | -19.9 | 4.3 | 2.0 | 2.1 |
| **2** | -15.4 | 0.9 | -19.5 | 2.0 | 1.8 | 1.5 |
| **3** | -19.7 | 0.9 | -26.1 | 4.8 | 2.0 | 2.0 |
| **4** | -19.1 | 3.5 | -24.1 | 3.9 | 2.6 | 2.8 |
| **5** | -19.3 | 9.5 | -24.1 | 4.1 | 2.8 | 4.3 |
| **6** | -18.4 | 17.1 | -22.7 | 4.2 | 1.7 | -5.0 |
| **7** | -16.3 | 20.7 | -20.4 | 4.0 | 1.2 | -30.8 |
| **8** | -15.3 | 8.9 | -21.4 | 3.6 | 2.8 | -37.8 |
| **9** | -15.8 | -4.9 | -24.6 | 3.9 | 1.8 | -43.3 |
| **10** | -13.9 | -7.7 | -22.9 | 3.3 | 1.6 | -43.7 |
| **11** | -17.4 | -5.2 | -20.7 | 4.9 | 1.9 | -40.6 |
| **12** | -10.2 | -11.5 | -19.2 | -4.9 | 2.0 | -36.6 |
| **13** | 0.8 | -36.3 | -29.7 | -12.8 | -1.6 | -52.8 |
| **14** | 1.7 | -37.5 | -28.3 | -11.1 | -1.2 | -53.3 |
| **15** | 0.9 | -34.1 | -24.2 | -9.5 | -2.3 | -46.5 |
| **16** | -0.1 | -18.4 | -18.4 | -10.5 | -0.8 | -41.0 |
| **17** | 1.7 | -5.9 | -5.9 | -10.1 | -0.5 | -21.3 |
| **18** | -0.3 | 2.3 | 2.3 | -8.9 | -1.7 | 2.7 |
| **19** | 1.5 | 7.1 | 7.1 | -6.1 | -1.2 | 6.8 |
| **20** | 0.1 | 2.9 | 2.9 | -8.7 | -0.8 | 4.2 |
| **Post-Closure** | 0.6 | 4.7 | 4.0 | -2.5 | -1.3 | 4.8 |
| **Mine Life Max** | 1.7 | 20.7 | 7.1 | 4.9 | 2.8 | 6.8 |
| **Mine Life Mean** | -10.4 | -4.3 | -16.3 | -1.8 | 0.8 | -18.7 |
| **Mine Life Min** | -20.3 | -37.5 | -29.7 | -12.8 | -2.3 | -53.3 |

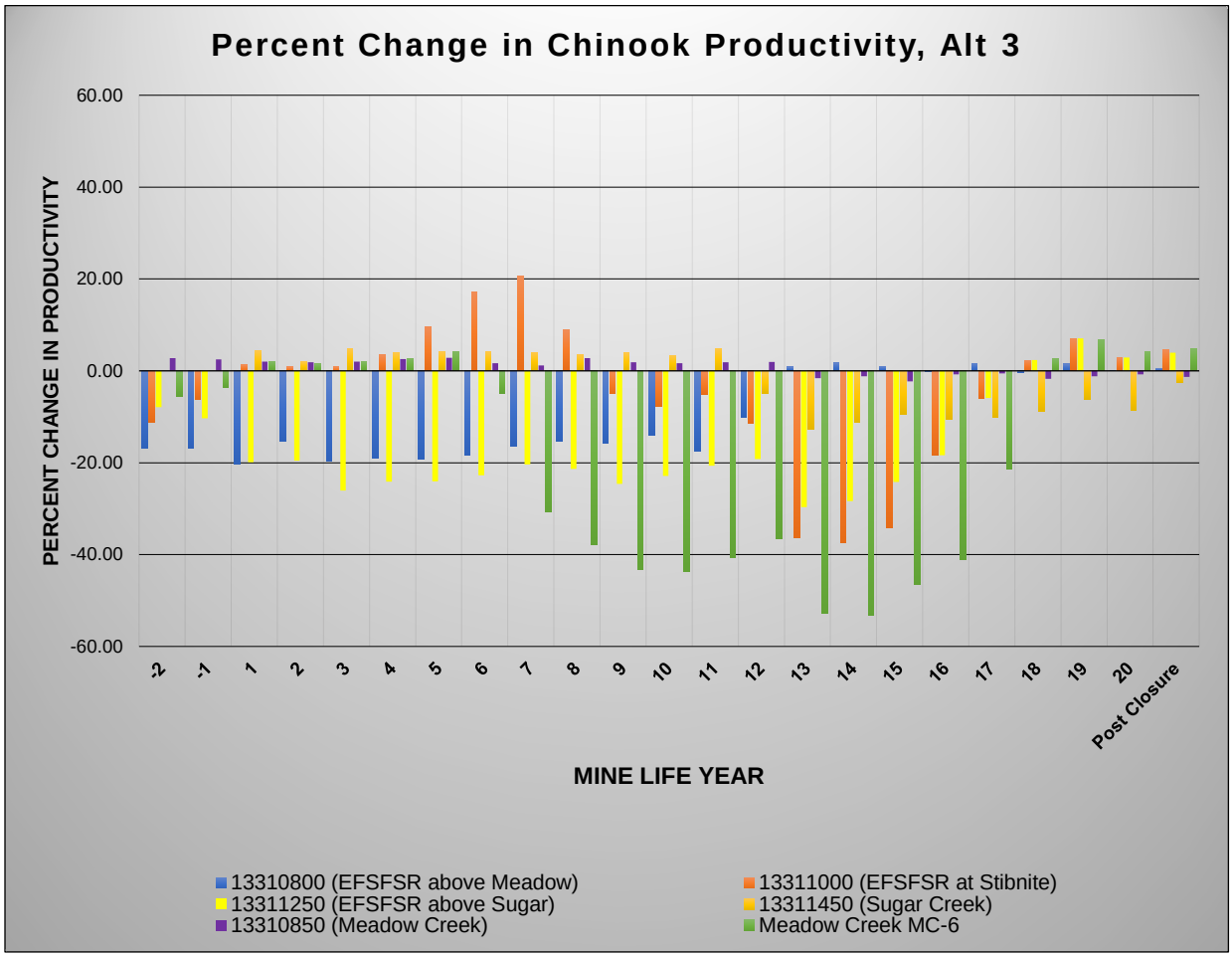



**Figure 4. Histogram of Site-specific Changes in Chinook Productivity under Alternative 3**

# 4.0 SUMMARY

Each alternative has effects on modeled productivity that vary in both space and time as a result of predicted changes in discharge. The productivity estimates show that the flow changes predicted to result from the proposed project and alternatives would likely change the productivity of Chinook salmon in the project area. However, the analysis does not incorporate barriers, habitat availability, water temperature, number of spawning fish, or other factors that affect productivity. However, they provide a measure by which to assess the effects flow changes may have on Chinook productivity.

To examine the modeled changes in Chinook productivity for each alternative throughout the mine site, examine **Tables 2** through **4** and **Figures 2** through **4**. To examine the modeled changes in Chinook productivity among alternatives for a given stream segment, refer to **Figures 5** through **10**. These figures illustrate how the changes in flow would affect each site though time and among alternatives.

To aid in comparison of the alternatives, the differences (subtraction) in percent change in productivity (the values presented in **Tables 2** through **4**) were computed between each of the alternatives (**Tables 5** through **7**). These differences illustrate the comparative impact of each alternative on Chinook productivity. They are not formal comparisons for differences between modeling results, but rather a comparative tool that aids in examination of the modeling results tables; the discussion that follows should be viewed in that context.

When comparing Alternative 2 to Alternative 1 (**Table 5**), the differences are mainly positive (i.e., productivity would be higher under Alternative 2). The differences show that Alternative 2 has a higher productivity (more positive values) when compared to Alternative 1 for all reaches except for Lower Meadow Creek SFA reach MC-6 in Years -2 through 6 (**Table 5**). Consequently, Alternative 2 would be better for Chinook productivity (positive differences in productivity in **Table 5**) for all sites, based on average annual change in productivity during the mine life. Post-closure, Chinook productivity would be higher at all sites except for Lower Meadow Creek SFA reach MC-6 (-2.0 percent difference).

When comparing Alternative 3 to Alternative 2 (**Table 6**), Alternative 2 would have higher Chinook productivity than Alternative 3 at all locations (negative differences from **Table 6**) except for Upper Meadow Creek, because the TSF/DRSF would not be in that watershed.

When comparing Alternative 3 to Alternative 1 (**Table 7**), differences in productivity are more variable than the other comparisons. Alternative 3 would be better for Upper Meadow Creek, because the TSF/DRSF would be in the Upper EFSFSR watershed. However, it should be noted that no sites are in the Upper EFSFSR watershed as there are in Meadow Creek; therefore, a comparison site is missing.

The Chinook productivity analysis provides a tool for assessing the impacts of the PA (Alternative 1) and the other alternatives on Chinook salmon. The analysis does not incorporate habitat availability or quality into the productivity estimates; the estimates are solely based on flow changes, and on data from Johnson Creek. They should be viewed as relative to each other, and not absolute in nature. Comparisons between alternatives were made through arithmetic differences in modeling results, and not through a statistical comparison, and therefore aid in the interpretation of the results of the productivity modeling.

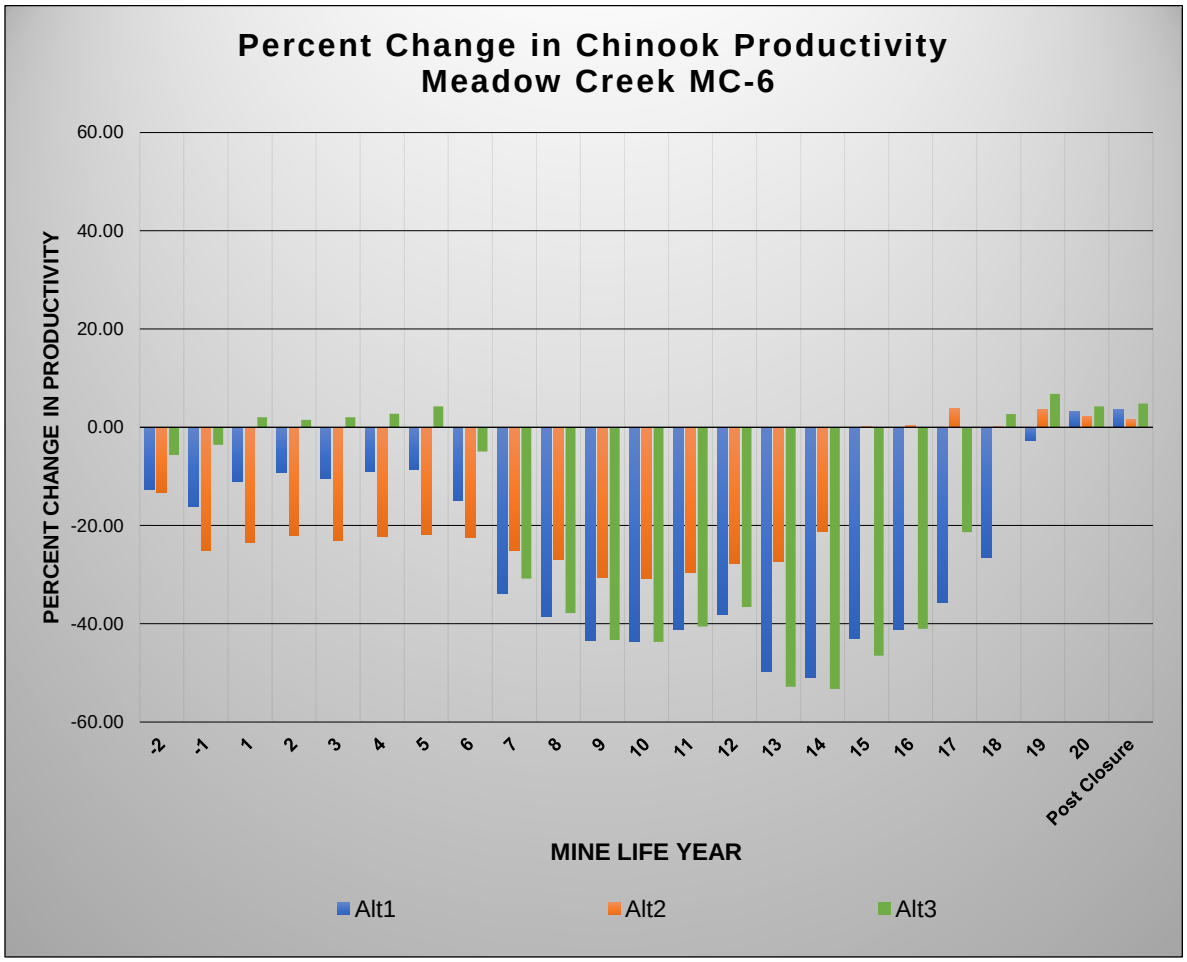



**Figure 5. Histogram of Modeled Changes in Chinook Productivity for MC-6 under Alternatives 1, 2, and 3**

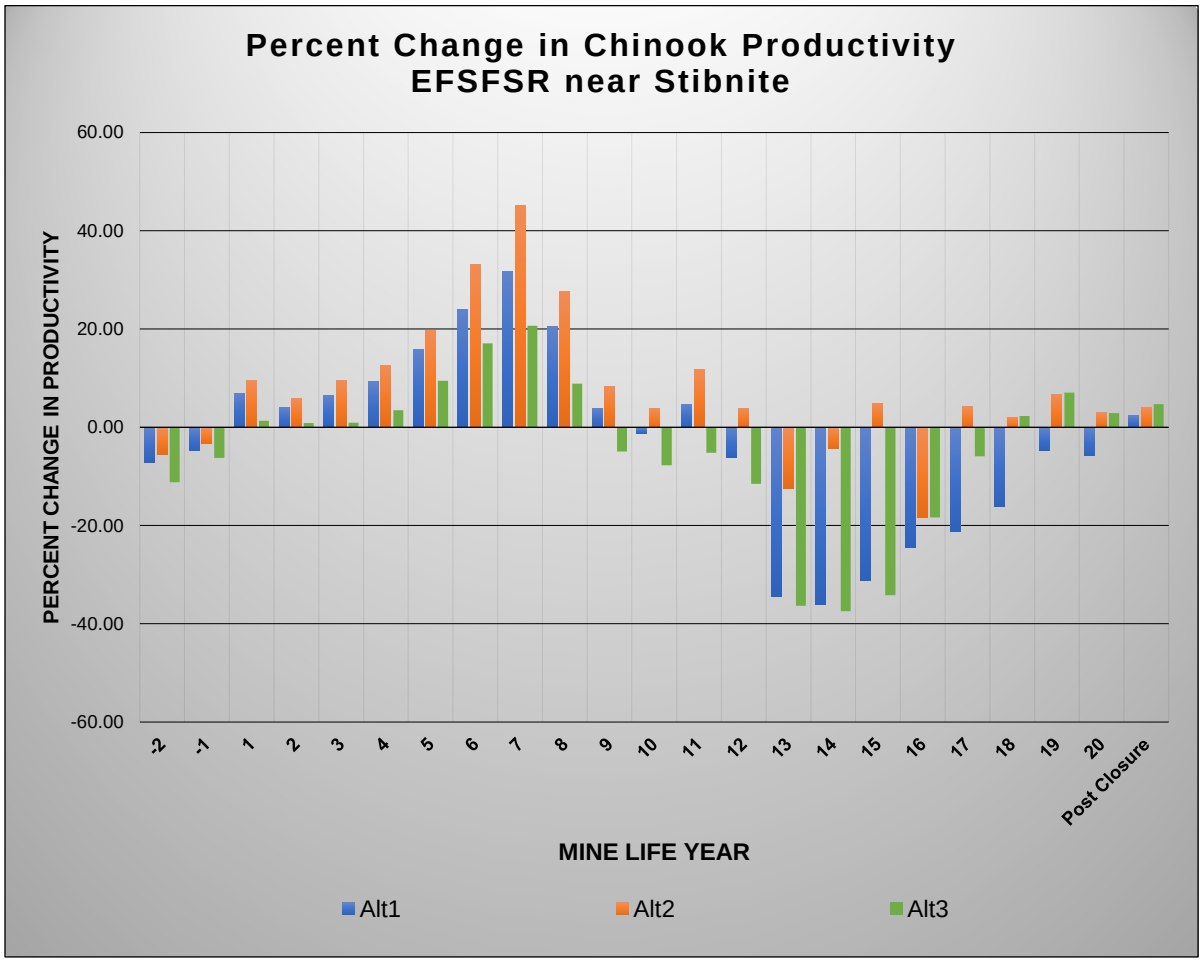



**Figure 6. Histogram of Modeled Changes in Chinook Productivity for EFSFSR near Stibnite under Alternatives 1, 2, and 3**

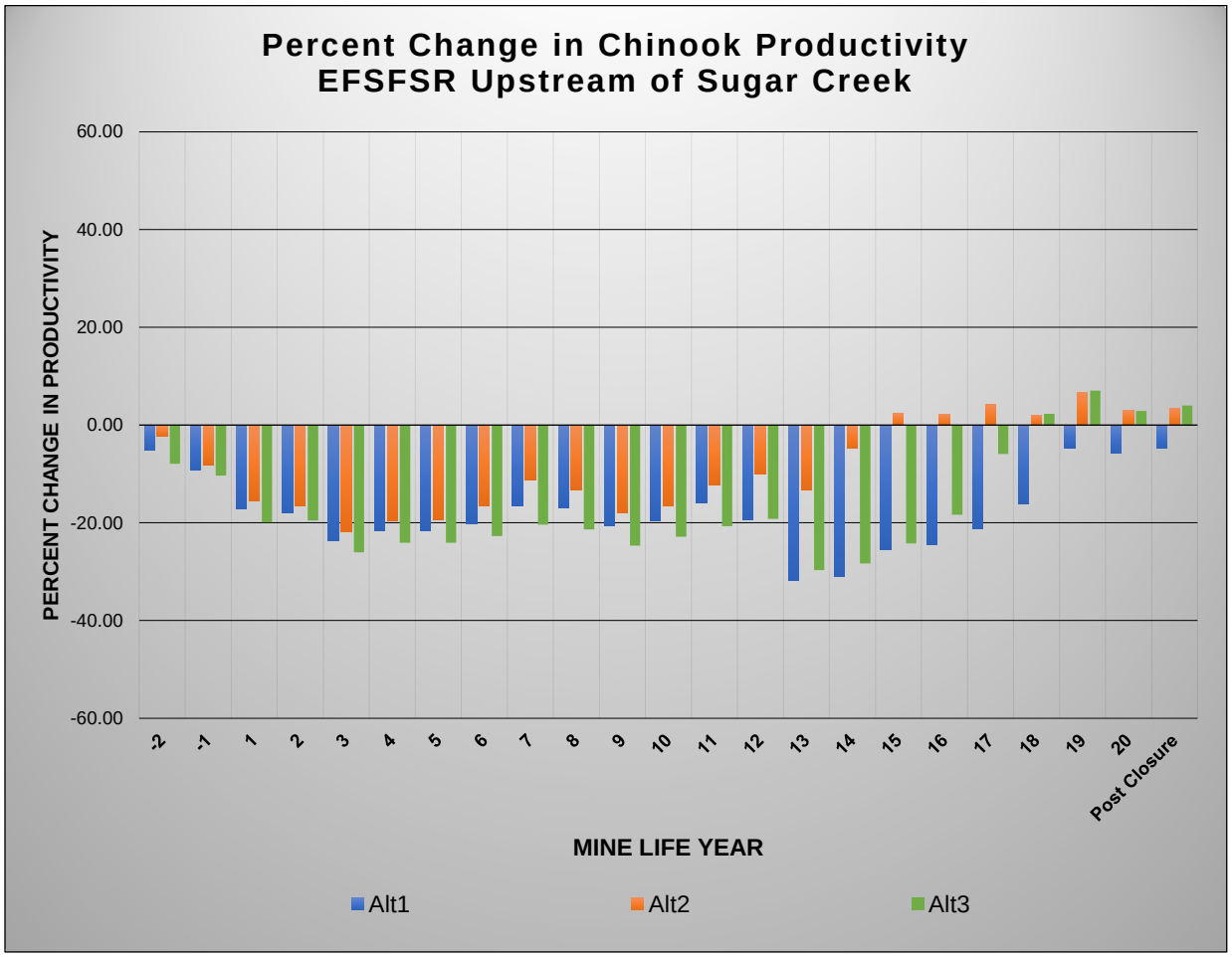



**Figure 7. Histogram of Modeled Changes in Chinook Productivity for EFSFSR Upstream of Sugar Creek under Alternatives 1, 2, and 3**

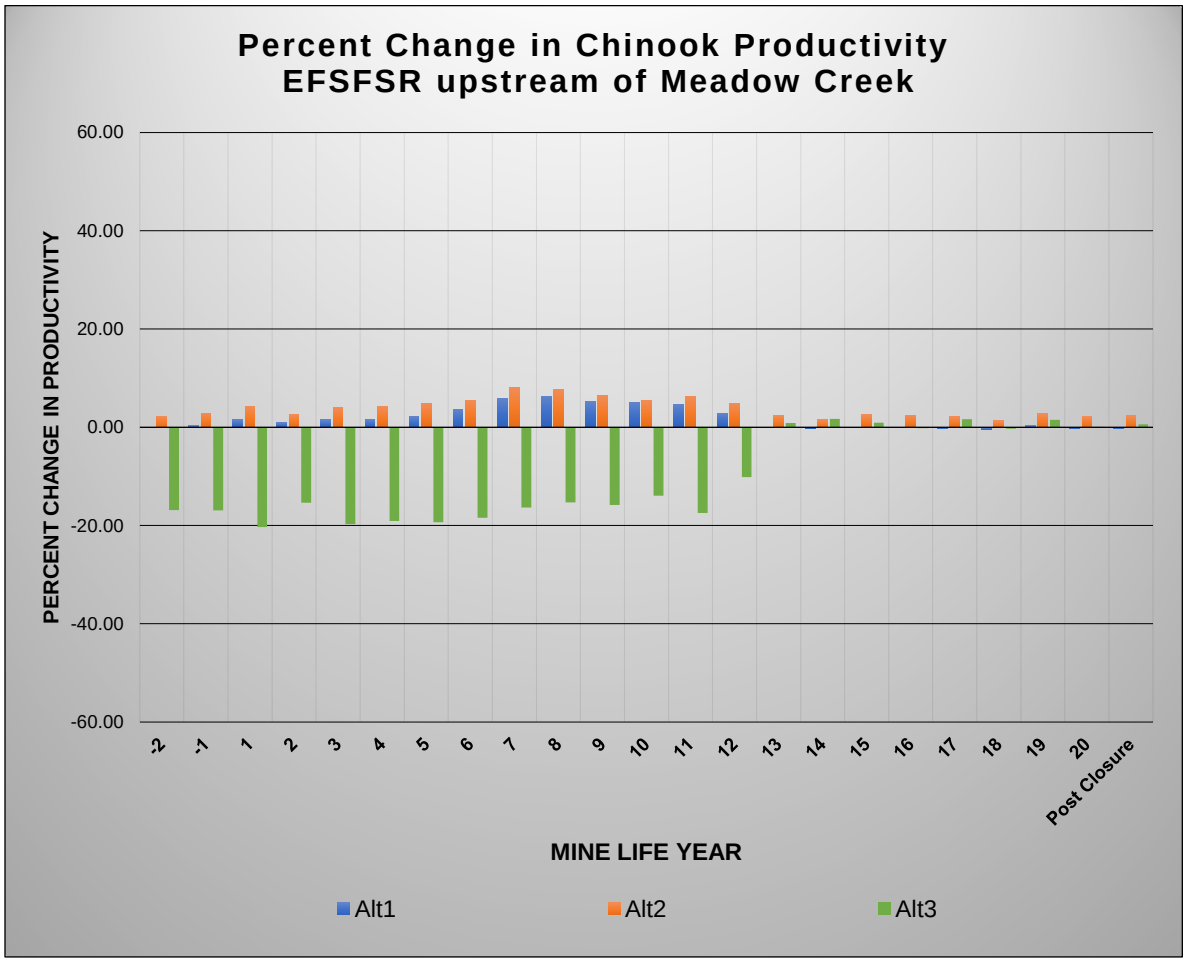



**Figure 8. Histogram of Modeled changes in Chinook Productivity for EFSFSR Upstream of Meadow Creek under Alternatives 1, 2, and 3**

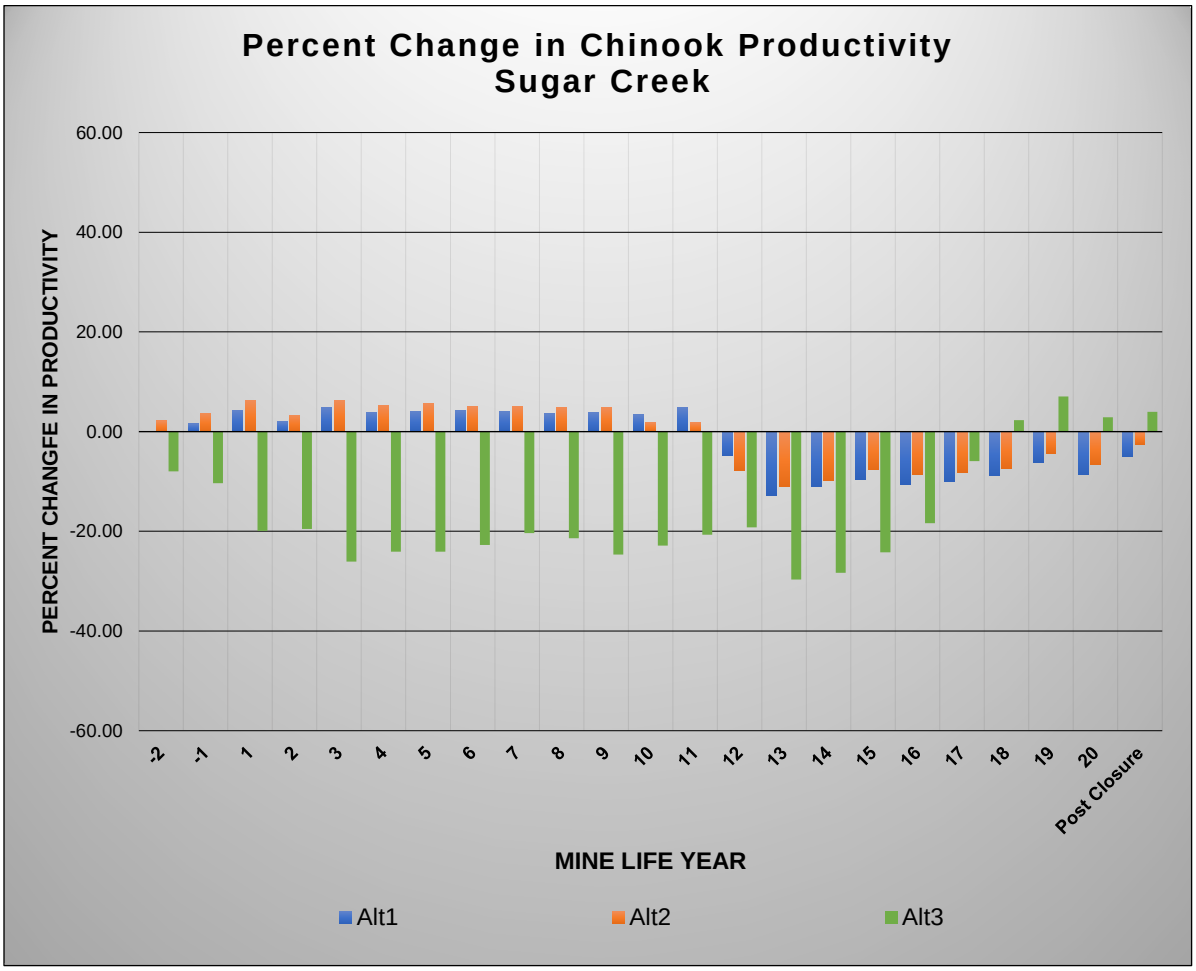



**Figure 9. Histogram of Modeled Changes in Chinook Productivity for Sugar Creek under Alternatives 1, 2, and 3**

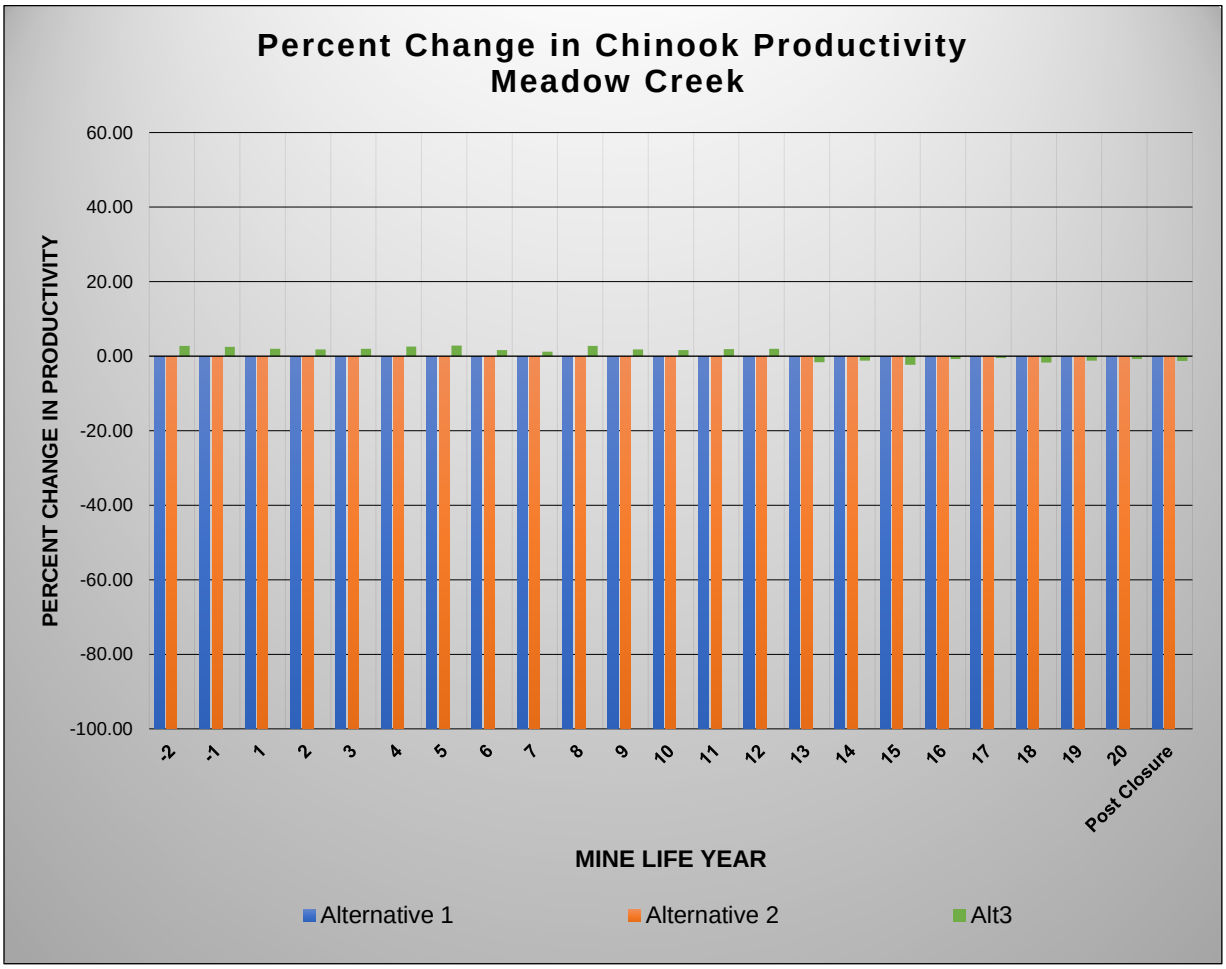



**Figure 10. Histogram of Modeled Changes in Chinook Productivity for Meadow Creek under Alternatives 1, 2, and 3**

**Table 5. Difference in Modeled Chinook Percent Change in Productivity between Alternative 2 and Alternative 1 (Alternative 2 minus Alternative 1 Productivity Percent Change)**

| Alternative 2 and and Alternative 1 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| **Mine Year** | **13310800 (EFSFSR above Meadow)** | **13311000 (EFSFSR at Stibnite)** | **13311250 (EFSFSR above Sugar)** | **13311450 (Sugar Creek)** | **13310850 (Meadow Creek)** | **Meadow Creek MC-6** |
| **-2** | 2.3 | 1.8 | 2.8 | 2.2 | 0.0 | -0.5 |
| **-1** | 2.5 | 1.5 | 1.1 | 2.1 | 0.0 | -8.8 |
| **1** | 2.7 | 2.6 | 1.6 | 1.9 | 0.0 | -12.5 |
| **2** | 1.7 | 1.8 | 1.5 | 1.2 | 0.0 | -12.9 |
| **3** | 2.5 | 3.0 | 2.0 | 1.4 | 0.0 | -12.6 |
| **4** | 2.6 | 3.4 | 2.1 | 1.4 | 0.0 | -13.2 |
| **5** | 2.6 | 3.9 | 2.3 | 1.5 | 0.0 | -13.2 |
| **6** | 2.0 | 9.1 | 3.5 | 0.8 | 0.0 | -7.4 |
| **7** | 2.2 | 13.4 | 5.3 | 1.1 | 0.0 | 8.8 |
| **8** | 1.4 | 7.2 | 3.7 | 1.3 | 0.0 | 11.4 |
| **9** | 1.2 | 4.5 | 2.6 | 1.0 | 0.0 | 12.7 |
| **10** | 0.4 | 5.0 | 3.0 | -1.5 | 0.0 | 12.7 |
| **11** | 1.5 | 7.1 | 3.7 | -3.0 | 0.0 | 11.4 |
| **12** | 2.0 | 10.2 | 9.3 | -2.9 | 0.0 | 10.4 |
| **13** | 2.5 | 21.9 | 18.6 | 1.7 | 0.0 | 22.3 |
| **14** | 1.7 | 31.7 | 26.1 | 1.3 | 0.0 | 29.6 |
| **15** | 2.7 | 36.0 | 27.7 | 1.9 | 0.0 | 43.1 |
| **16** | 2.5 | 6.1 | 26.7 | 2.0 | 0.0 | 41.5 |
| **17** | 2.4 | 25.5 | 25.5 | 1.9 | 0.0 | 39.4 |
| **18** | 1.8 | 18.2 | 18.2 | 1.4 | 0.0 | 26.7 |
| **19** | 2.3 | 11.3 | 11.3 | 1.8 | 0.0 | 6.4 |
| **20** | 2.4 | 8.7 | 8.7 | 2.0 | 0.0 | -1.0 |
| **Post-Closure** | 2.6 | 1.7 | 8.1 | 2.4 | 0.0 | -2.0 |
| **Mine Life Max** | 2.7 | 36.0 | 27.7 | 2.2 | 0.0 | 43.1 |
| **Mine Life Mean** | 2.1 | 10.6 | 9.4 | 1.0 | 0.0 | 8.8 |
| **Mine Life Min** | 0.4 | 1.5 | 1.1 | -3.0 | 0.0 | -13.2 |

**Table 6. Difference in Modeled Chinook Percent Change in Productivity between Alternative 3 and Alternative 2 (Alternative 3 minus Alternative 2 Productivity Percent Change)**

| Alternative 3 and Alternative 2 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| **Mine Year** | **13310800 (EFSFSR above Meadow)** | **13311000 (EFSFSR at Stibnite)** | **13311250 (EFSFSR above Sugar)** | **13311450 (Sugar Creek)** | **13310850 (Meadow Creek)** | **Meadow Creek MC-6** |
| **-2** | -19.2 | -5.7 | -5.7 | -2.2 | 102.8 | 7.5 |
| **-1** | -19.8 | -2.9 | -2.2 | -3.7 | 102.5 | 21.5 |
| **1** | -24.5 | -8.2 | -4.3 | -1.9 | 102.0 | 25.6 |
| **2** | -18.1 | -4.9 | -3.0 | -1.2 | 101.8 | 23.6 |
| **3** | -23.8 | -8.6 | -4.3 | -1.4 | 102.0 | 25.1 |
| **4** | -23.2 | -9.2 | -4.5 | -1.4 | 102.6 | 25.0 |
| **5** | -24.1 | -10.3 | -4.8 | -1.5 | 102.8 | 26.0 |
| **6** | -23.9 | -16.1 | -6.1 | -0.8 | 101.7 | 17.4 |
| **7** | -24.4 | -24.4 | -9.1 | -1.1 | 101.2 | -5.6 |
| **8** | -23.0 | -18.8 | -8.1 | -1.3 | 102.8 | -10.8 |
| **9** | -22.2 | -13.2 | -6.6 | -1.0 | 101.8 | -12.7 |
| **10** | -19.4 | -11.5 | -6.3 | 1.5 | 101.6 | -12.8 |
| **11** | -23.6 | -17.0 | -8.4 | 3.0 | 101.9 | -10.9 |
| **12** | -15.0 | -15.4 | -9.1 | 2.9 | 102.0 | -8.9 |
| **13** | -1.7 | -23.9 | -16.5 | -1.7 | 98.4 | -25.5 |
| **14** | 0.2 | -33.2 | -23.5 | -1.3 | 98.8 | -32.0 |
| **15** | -1.7 | -39.0 | -26.5 | -1.9 | 97.7 | -46.7 |
| **16** | -2.6 | 0.0 | -20.6 | -2.0 | 99.2 | -41.4 |
| **17** | -0.5 | -10.1 | -10.1 | -1.9 | 99.5 | -25.1 |
| **18** | -1.6 | 0.3 | 0.3 | -1.4 | 98.3 | 2.5 |
| **19** | -1.2 | 0.4 | 0.4 | -1.8 | 98.8 | 3.1 |
| **20** | -2.1 | -0.1 | -0.1 | -2.0 | 99.2 | 2.0 |
| **Post-Closure** | -1.7 | 0.7 | 0.5 | 0.0 | 98.7 | 3.3 |
| **Mine Life Max** | 0.2 | 0.4 | 0.4 | 3.0 | 102.8 | 26.0 |
| **Mine Life Mean** | -14.3 | -12.3 | -8.1 | -1.1 | 100.9 | -2.4 |
| **Mine Life Min** | -24.5 | -39.0 | -26.5 | -3.7 | 97.7 | -46.7 |

**Table 7. Difference in Modeled Chinook Percent Change in Productivity between Alternative 3 and Alternative 1 (Alternative 3 minus Alternative 1 Productivity Percent Change)**

| Alternative 3 and Alternative 1 | Gage Location | | | | | |
|---|---|---|---|---|---|---|
| **Mine Year** | **13310800 (EFSFSR above Meadow)** | **13311000 (EFSFSR at Stibnite)** | **13311250 (EFSFSR above Sugar)** | **13311450 (Sugar Creek)** | **13310850 (Meadow Creek)** | **Meadow Creek MC-6** |
| **-2** | -16.9 | -4.0 | -2.9 | 0.0 | 102.8 | 7.1 |
| **-1** | -17.3 | -1.4 | -1.1 | -1.6 | 102.5 | 12.6 |
| **1** | -21.8 | -5.6 | -2.7 | 0.0 | 102.0 | 13.1 |
| **2** | -16.4 | -3.2 | -1.5 | 0.0 | 101.8 | 10.8 |
| **3** | -21.3 | -5.6 | -2.4 | 0.0 | 102.0 | 12.5 |
| **4** | -20.6 | -5.8 | -2.4 | 0.0 | 102.6 | 11.8 |
| **5** | -21.4 | -6.4 | -2.5 | 0.0 | 102.8 | 12.8 |
| **6** | -21.9 | -7.0 | -2.6 | 0.0 | 101.7 | 10.0 |
| **7** | -22.2 | -10.9 | -3.8 | 0.0 | 101.2 | 3.2 |
| **8** | -21.6 | -11.6 | -4.4 | 0.0 | 102.8 | 0.6 |
| **9** | -21.0 | -8.7 | -4.0 | 0.0 | 101.8 | 0.0 |
| **10** | -19.0 | -6.5 | -3.3 | 0.0 | 101.6 | -0.1 |
| **11** | -22.1 | -9.8 | -4.7 | 0.0 | 101.9 | 0.5 |
| **12** | -13.0 | -5.2 | 0.2 | 0.0 | 102.0 | 1.5 |
| **13** | 0.8 | -2.0 | 2.1 | 0.0 | 98.4 | -3.2 |
| **14** | 1.9 | -1.4 | 2.6 | 0.0 | 98.8 | -2.4 |
| **15** | 1.0 | -2.9 | 1.2 | 0.0 | 97.7 | -3.6 |
| **16** | -0.1 | 6.1 | 6.1 | 0.0 | 99.2 | 0.1 |
| **17** | 1.9 | 15.4 | 15.4 | 0.0 | 99.5 | 14.3 |
| **18** | 0.2 | 18.5 | 18.5 | 0.0 | 98.3 | 29.2 |
| **19** | 1.1 | 11.7 | 11.7 | 0.0 | 98.8 | 9.5 |
| **20** | 0.3 | 8.6 | 8.6 | 0.0 | 99.2 | 1.0 |
| **Post-Closure** | 0.8 | 2.4 | 8.6 | 2.4 | 98.7 | 1.3 |
| **Mine Life Max** | 1.9 | 18.5 | 18.5 | 2.4 | 102.8 | 29.2 |
| **Mine Life Mean** | -11.7 | -1.5 | 1.6 | 0.0 | 100.8 | 6.2 |
| **Mine Life Min** | -22.2 | -11.6 | -4.7 | -1.6 | 97.7 | -3.6 |

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# APPENDIX A – NOAA FLOW-PRODUCTIVITY MEMORANDUM

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**October 9, 2018**

**MEMORANDUM FOR:** Johnna Sandow; File

**FROM:** Jim Morrow

**SUBJECT:** Johnson Creek Chinook salmon and flow data for quantifying effects of altering streamflow

This memorandum documents the preliminary analysis to determine statistical relationships between year class strength, of naturally spawned[1] Johnson Creek Chinook salmon, and Johnson Creek flow. The Nez Perce Tribe has been extensively monitoring Chinook salmon in Johnson Creek since 1998, when the Johnson Creek Artificial Propagation and Enhancement (JCAPE) program began. This monitoring includes enumerating adult returns, differentiating between hatchery and naturally produced fish, aging adult returns, estimating whole life cycle recruit (returns) to stock (spawners) ratios, estimating total number of juveniles migrating past the Johnson Creek screw trap, and estimating the total number of smolts surviving to Lower Granite Dam (LGD). The results, for brood years 1998 through 2012, are presented in Rabe et al. (2018). All fish population data used in the comparisons are from Rabe et al. (2018). All flow data used in the comparisons are from the Johnson Creek gage near Yellowpine, Idaho (Johnson gage).

Measures of year class strength included total number of returning adults (including 3-year-olds), total number of outmigrating juveniles, and total number of juveniles reaching LGD as smolts. Estimates of juvenile productivity were calculated by dividing the year class strength measures by the number of redds counted upstream from the Johnson Creek screw trap during the brood year. Adult productivity (also referred to as whole life cycle productivity) was estimated by dividing the number of returning adults by the total number of fish allowed to spawn naturally during the brood year. The flow metrics were mean monthly flow and mean annual flow for the twelve months beginning the March after spawning (brood year + 1) and ending the following February (brood year + 2). This was done to include freshwater rearing from approximately the time of emergence to the beginning of the smolt migration downstream.

All three measures of productivity were compared to population density, using simple regression, to investigate effects of density dependence. Population density was expressed as redds counted upstream from the Johnson Creek screw trap for juveniles, and as total number of natural spawners for adults. Adult production was also compared to number of spawners during the stock year, total juvenile migrants, and number of smolts reaching LGD, using simple regression. This was done to determine if number of returning adults was related to earlier measures of year class strength.

We used the method of exploratory regression, similar to that used by Henry (1953) and described in Ricker (1975), to identify possible relationships of year class strength (production

[1] All hatchery releases were tagged with coded wire tags which were used to differentiate hatchery from naturally produced fish.

and productivity) and Johnson Creek flow. Adult production, whole life cycle productivity, and both measures of juvenile productivity were regressed against the flow metrics using simple regression. Measures of productivity were also compared to flow and population density using multivariate regression. Productivity and population density were log transformed in all comparisons.

Because many factors may affect year class strength and we were only considering flow and population density, we considered all relationships that were suggestive ($P = 0.15$) or better, as recommended in Ricker (1975). This methodology risks identifying relationships due to random chance alone (i.e., false positive). However, given the "noisy" data, it is also possibly the best method to initially identify which aspects of the annual hydrograph are most important for rearing juveniles.

**Adult production**

Number of natural spawners for the 1998 – 2012 brood years ranged from 56 in 1999 to 1,396 in 2001. Number of natural returns ranged from 157 (1999 brood year) to 1,353 (2010 brood year). There was no apparent statistical relationship between number of spawners and number of natural returns (Figure 1). The relationships of number of natural juveniles migrating downstream past the screw trap and the number of natural returns was positive but it was not suggestive ($P \leq 0.15$). The relationship of the number of natural smolts reaching LGD and the number of natural returns was also positive, and somewhat stronger, but it was also not suggestive (Figure 1). Although number of adult returns is biologically related to earlier measures of year class strength, we did not identify obvious statistical relationships.

Results of simple regressions of adult production (total natural returns) versus flow (cfs) for March through February following the brood year, are in Table (1). Regressions were significant ($P \leq 0.05$) for mean June, mean July, mean August, and mean annual flow, and were suggestive ($P \leq 0.15$) for mean October flow. These results suggest that flow in Johnson Creek during summer rearing is a better predictor of natural returns than the number of spawners, number of natural juveniles migrating downstream past the screw trap, or the number of natural smolts reaching LGD.

**Adult productivity**

Whole life cycle productivity for naturally spawning Chinook salmon in Johnson Creek ranged from 0.12 in 2001 to 9.19 in 1998. Recruit to stock ratio was strongly, and negatively, related to number of stock year spawners (Figure 2). Simple regression of whole life cycle productivity versus flow for March through February following the brood year did not reveal any significant relationships. However, incorporating population density into the models revealed significant relationships for mean July, mean August, mean October, and for mean annual flow; and suggestive relationships for mean June, mean November, mean December, and mean January flow (Table 2).

**Table 1. Results of simple regressions of naturally produced spawners returning to Johnson Creek versus flow measured at the Johnson Creek near Yellowpine gage during March through February following the brood year. Monthly flows are mean monthly flows in cfs and annual flow is mean annual flow in cfs.**

| Independent Variable | Regression Equation | $R^2$ | Probability of Greater F |
|---|---|---|---|
| March flow | y = 5.63*x – 52.21 | 0.09 | 0.27 |
| April flow | y = -0.0917*x + 535.85 | 0.0017 | 0.88 |
| May flow | y = 0.1179*x + 343.27 | 0.016 | 0.66 |
| **June flow** | **y = 0.3597*x + 71.46** | **0.30** | **0.03** |
| **July flow** | **y = 1.6172*x + 39.51** | **0.56** | **0.001** |
| **August flow** | **y = 7.8553*x – 373.53** | **0.49** | **0.004** |
| September flow | y = 6.3883*x - 53.01 | 0.09 | 0.25 |
| October flow | y = 5.1948*x – 14.15 | 0.22 | 0.08 |
| November flow | y = 3.5054*x + 124.98 | 0.12 | 0.21 |
| December flow | y = 3.6531*x + 165.57 | 0.08 | 0.30 |
| January flow | y = 8.3031*x - 202.56 | 0.11 | 0.23 |
| February flow | y = 5.0189*x + 85.7269 | 0.03 | 0.51 |
| **Mean Annual flow** | **y = 2.5109*x – 326.14** | **0.32** | **0.03** |

**Table 2. Multivariate regression of whole life cycle population productivity (returning adults / brood year spawners) against population density and flow. Monthly flows are mean monthly flows in cfs and annual flow is mean annual flow in cfs.**

| Independent Variable[1] $x_1$ | Regression Equation | $R^2$ | Probability of Greater F | | |
|---|---|---|---|---|---|
| | | | $x_1$ | $x_2$ | Model |
| March flow | Ln y = 0.0141*$x_1$ – 0.949*Ln $x_2$ + 4.268 | 0.69 | 0.16 | 0.0004 | 0.0009 |
| April flow | Ln y = 0.0008*$x_1$ – 0.958*Ln $x_2$ + 5.689 | 0.63 | 0.94 | 0.0007 | 0.003 |
| May flow | Ln y = 0.0004*$x_1$ – 0.966*Ln $x_2$ + 5.272 | 0.64 | 0.50 | 0.0006 | 0.002 |
| June flow | Ln y = 0.0006*$x_1$ – 1.068*Ln $x_2$ + 5.664 | 0.70 | 0.11 | 0.0002 | 0.0007 |
| **July flow** | **Ln y = 0.0027*$x_1$ – 1.088*Ln $x_2$ + 5.713** | **0.78** | **0.02** | **<0.0001** | **0.0001** |
| **August flow** | **Ln y = 0.0155*$x_1$ – 1.144*Ln $x_2$ + 5.104** | **0.79** | **0.009** | **<0.0001** | **<0.0001** |
| September flow | Ln y = 0.0144*$x_1$ – 1.062*Ln $x_2$ + 5.080 | 0.67 | 0.23 | 0.0003 | 0.001 |
| **October flow** | **Ln y = 0.0122*$x_1$ – 1.033*Ln $x_2$ + 4.946** | **0.74** | **0.01** | **<0.0001** | **0.0003** |
| November flow | Ln y = 0.0106*$x_1$ – 0.867*Ln $x_2$ + 4.024 | 0.73 | 0.053 | 0.0005 | 0.0004 |
| December flow | Ln y = 0.0113*$x_1$ – 0.983*Ln $x_2$ + 4.826 | 0.71 | 0.10 | 0.0002 | 0.0006 |
| January flow | Ln y = 0.0266*$x_1$ – 1.063*Ln $x_2$ + 4.091 | 0.73 | 0.055 | 0.0001 | 0.0004 |
| February flow | Ln y = 0.0184*$x_1$ – 1.076*Ln $x_2$ + 4.890 | 0.67 | 0.29 | 0.0005 | 0.014 |
| **Annual flow** | **Ln y = 0.0005*$x_1$ – 1.078*Ln $x_2$ + 4.819** | **0.74** | **0.04** | **<0.0001** | **0.0003** |

1. Dependent variable $x_2$ is brood year spawners for all regressions.

## Juvenile productivity

The Johnson Creek juvenile screw trap (JOHTRP) has been operated at creek mile 4.3 (km 7) since 1998. Estimates of the number of naturally produced juvenile Chinook salmon migrating past the trap and number surviving to Lower Granite Dam, for the 1998 through 2015 year classes, are presented in Rabe et al. (2018). Production, measured as total number of juveniles,

ranged from 19,486 (1999 brood year) to 428,604 (2003 brood year); and production, measured as smolts reaching LGD, ranged from 6,789 (2000 brood year) to 79,480 (2010 brood year). Number of redds counted upstream from the screw trap ranged from 27 in 1999 to 407 in 2014; productivity, measured as total juveniles per redd, ranged from 273 (2004 brood year) to 1,207 (2003 brood year); and productivity, measured as smolts at LGD per redd ranged from 49 (2013 brood year) to 289 (1999 brood year). None of the regressions of juvenile productivity, measured either as total juveniles per redd or smolts per redd, versus any of the flow metrics, were significant. Smolts at LGD per redd exhibited density dependence but total juveniles per redd did not (Figure 2). Regardless, incorporating population density (brood year redds) into the regression models did not improve relationships for juvenile productivity (total juveniles or smolts at LGD) versus flow.

## Discussion

The lack of an apparent statistical relationship between brood year spawners and adult returns is not unusual. Although the biological relationship is obvious (i.e. parents and offspring), and strong statistical relationships between brood year spawners and whole life cycle productivity are typical, relationships between spawners and production, measured as returning adults, is often obscured by variations in egg to parr, parr to smolt, and smolt to adult survival. The relationships between juveniles migrating past the screw trap and adult returns, and between smolts reaching LGD and adult returns, are weaker than expected based on populations with which we are familiar. However, a comparison to all Snake River Chinook salmon populations, with available screw trap data, will be needed to determine if the relationships of juveniles to adult returns for Johnson Creek are unusually weak.

It is interesting that number of adult returns are better predicted by streamflow volume during the rearing year than by number of juveniles migrating downstream, or by the number of juveniles reaching LGD. It could be that flow influences size, condition, and migrating timing of juvenile migrants and that, over the range of observed juvenile migrant numbers, those factors are better descriptors of year class strength than number alone. Whatever the mechanism, it appears that effects of rearing streamflow continue to have consequences for juvenile survival well into the downstream migration life stage.

There was no apparent effect of population density on number of juveniles migrating past the screw trap. This is likely because most juveniles migrate past the screw trap during the very early life stages (i.e. parr and presmolt), before density effects appreciably affect mortality. There was a significant, but relatively weak, effect of population density on numbers of smolts reaching LGD, and a strong relationship between population density and whole life cycle productivity. Stronger density dependent relationships in older life stages is normal for Snake River spring/summer Chinook salmon and is possibly due to early effects of density on size and/or condition that subsequently affect survival throughout the freshwater rearing, downstream migration, and early saltwater life stages.

There were no detectable relationships between rearing streamflow and juvenile productivity (i.e., total juveniles past the trap/redd and smolts at LGD/redd) but there were significant

relationships between rearing streamflow and whole life cycle productivity. This is evidence that rearing streamflow affects Johnson Creek Chinook salmon in ways that are not apparent when measured as number of migrating juveniles. The results in Table (2) also indicate that flow during summer may be the most critical for rearing Chinook salmon, and that flow during fall/winter may also be important.

Investigating multiple factors through "exploratory regression" is an established methodology for identifying factors affecting year class strength (Ricker 1975). However, running multiple individual regressions does increase risk of finding "significant" relationships entirely due to random chance. Nevertheless, the preponderance of positive relationships and the general pattern of flow being most important during months in which it is likely to be the most limited (i.e. during base flow conditions) suggests that rearing streamflow is an important factor influencing Johnson Creek Chinook salmon year class strength.

## Quantifying impacts of altering flow

Until comparisons of juvenile length, migration timing, etc. and rearing streamflow can be made, the relationships of whole life cycle productivity, to flow and population density, will likely be the most useful for quantifying effects of proposed streamflow alterations on Chinook salmon. However, the flow measures should be normalized to facilitate application of the relationships to different stream reaches. Table (3) has relationships of whole life cycle population productivity to population density and streamflow expressed as percent of mean monthly and percent of mean annual streamflow. These relationships are essentially the same as in Table (2) but, because flow has been normalized, they will be more useful for quantifying effects of altering streamflow in different stream reaches.

**Table 3. Multivariate regression of whole life cycle population productivity (return spawners / stock year spawners) against population density and flow. Monthly flows are percent of mean monthly flow and annual flow is the percent of mean annual flow.**

| Independent Variable[1] $x_1$ | Regression Equation | $R^2$ | Probability of Greater F | | |
|---|---|---|---|---|---|
| | | | $x_1$ | $x_2$ | Model |
| March flow | Ln y = 0.0141*$x_1$ – 0.947*Ln $x_2$ + 4.268 | 0.69 | 0.16 | 0.0004 | 0.0009 |
| April flow | Ln y = 0.0003*$x_1$ – 0.958*Ln $x_2$ + 5.689 | 0.63 | 0.95 | 0.0007 | 0.003 |
| May flow | Ln y = 0.0047*$x_1$ – 0.966*Ln $x_2$ + 5.272 | 0.64 | 0.50 | 0.0006 | 0.002 |
| June flow | Ln y = 0.0080*$x_1$ – 1.068*Ln $x_2$ + 5.664 | 0.70 | 0.11 | 0.0002 | 0.0007 |
| **July flow** | **Ln y = 0.0099*$x_1$ – 1.088*Ln $x_2$ + 5.713** | **0.78** | **0.02** | **<0.0001** | **0.0001** |
| **August flow** | **Ln y = 0.0184*$x_1$ – 1.144*Ln $x_2$ + 5.104** | **0.79** | **0.009** | **<0.0001** | **<0.0001** |
| September flow | Ln y = 0.0129*$x_1$ – 1.062*Ln $x_2$ + 5.080 | 0.67 | 0.23 | 0.0003 | 0.001 |
| **October flow** | **Ln y = 0.0121*$x_1$ – 1.034*Ln $x_2$ + 4.946** | **0.75** | **0.04** | **<0.0001** | **0.0003** |
| November flow | Ln y = 0.0112*$x_1$ – 0.868*Ln $x_2$ + 4.024 | 0.73 | 0.053 | 0.0005 | 0.0004 |
| December flow | Ln y = 0.0109*$x_1$ – 0.983*Ln $x_2$ + 4.826 | 0.71 | 0.10 | 0.0002 | 0.0006 |
| January flow | Ln y = 0.0237*$x_1$ – 1.063*Ln $x_2$ + 4.091 | 0.73 | 0.055 | 0.0001 | 0.0004 |
| February flow | Ln y = 0.0161*$x_1$ – 1.076*Ln $x_2$ + 4.890 | 0.67 | 0.29 | 0.0005 | 0.014 |
| **Mean Annual flow** | **Ln y = 0.0169*$x_1$ – 1.078*Ln $x_2$ + 4.819** | **0.74** | **0.04** | **<0.0001** | **0.0003** |

1. Independent variable $x_2$ is brood year spawners for all regressions.

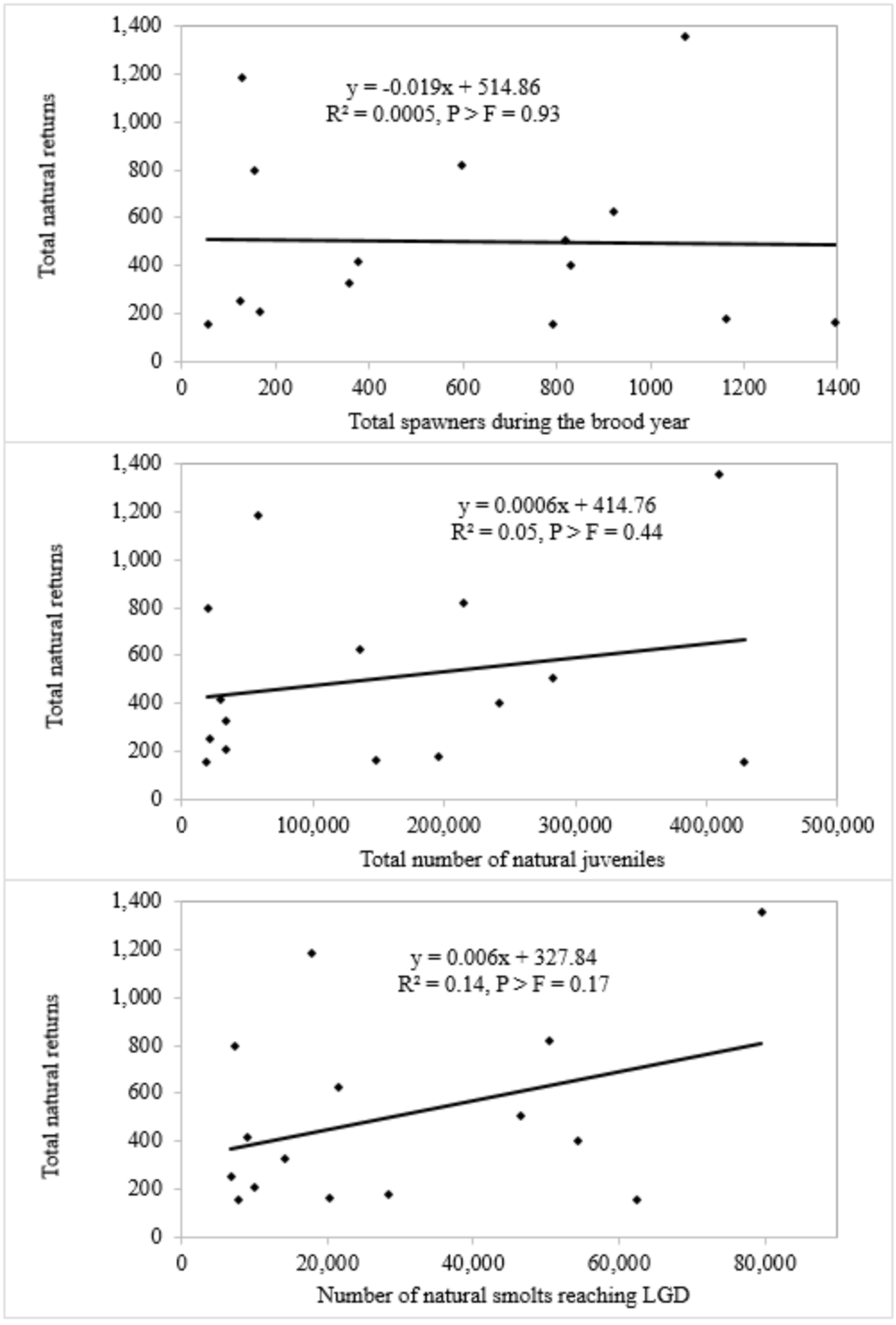



**Figure 1. Total number of natural returning adults (including three-year-olds) versus total brood year spawners, total number of natural juveniles migrating past the screw trap, and total number of natural smolts surviving to Lower Granite Dam.**

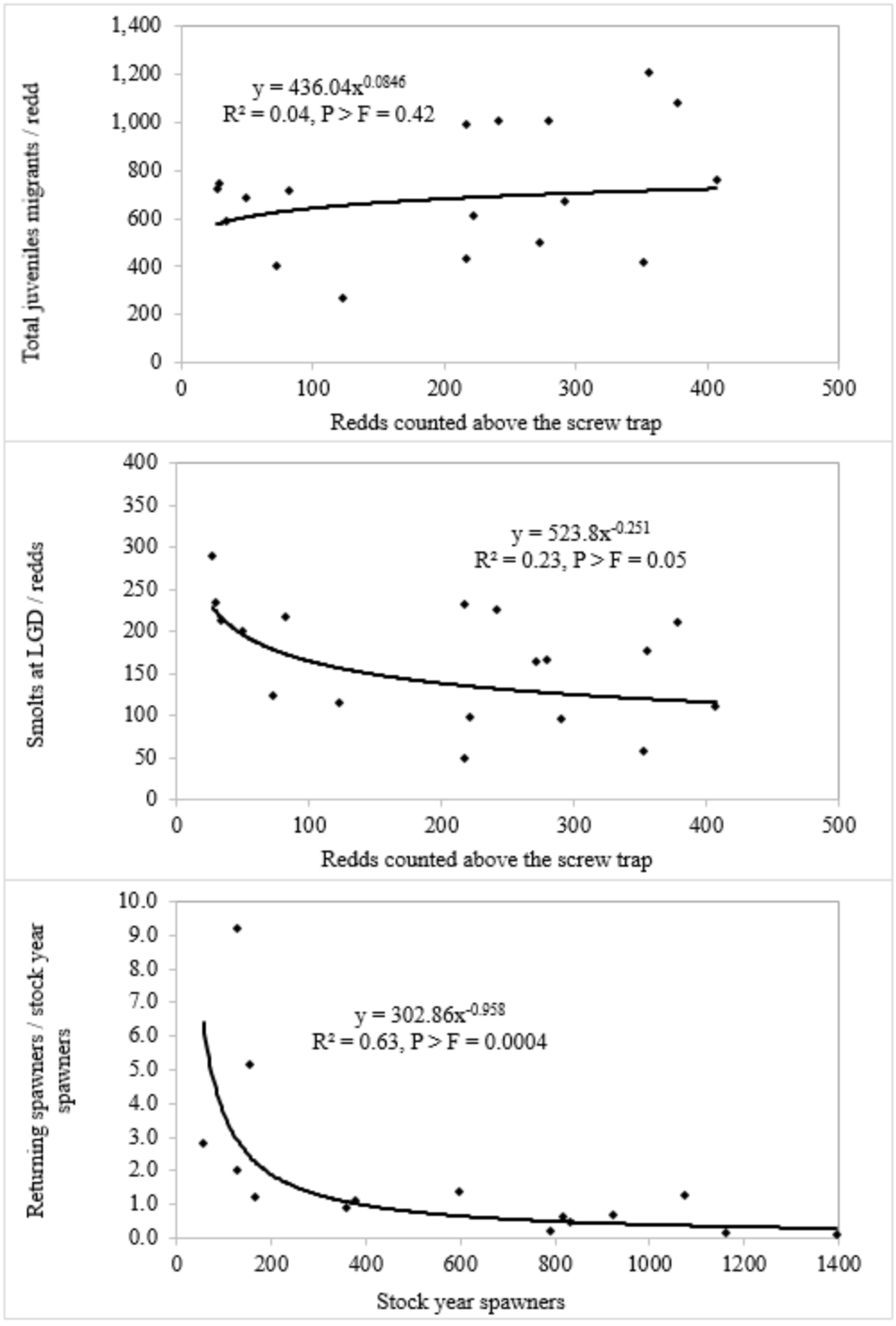



**Figure 2. Productivity versus population density for juveniles migrating past the Johnson Creek screw trap (no apparent density dependence), juveniles surviving to Lower Granite Dam (moderate density dependence), and returning adults (strong density dependence).**

## References

Henry, K. A. 1953. Analysis of the factors affecting the production of chum salmon (Oncorhynchus keta) in Tillamook Bay. Oregon Fish Commission. Contribution 18. 37 pp.

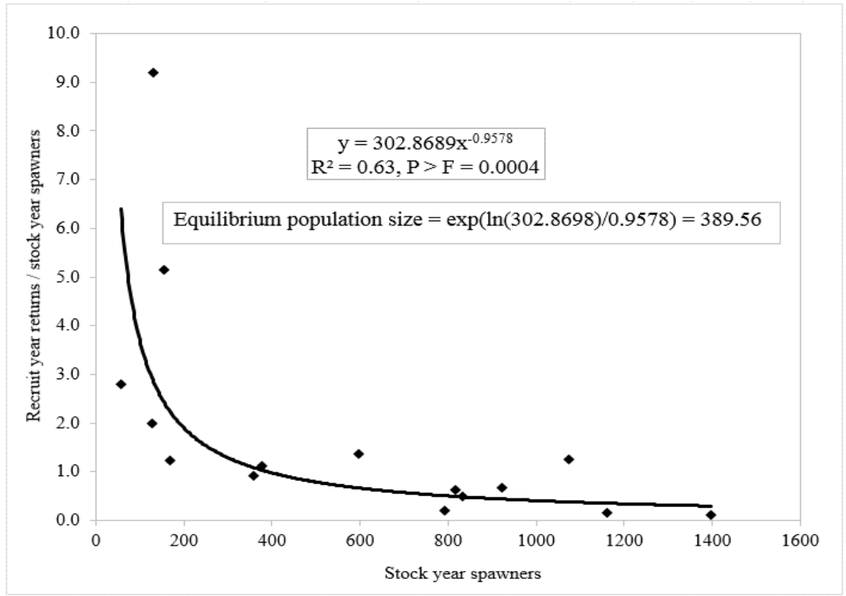
Rabe, C. D., D. D. Nelson, and T. Hodson. 2018. Status and monitoring of natural and supplemented Chinook salmon in Johnson Creek, Idaho. Annual Progress Report, Project Number 199604300. Bonneville Power Association contracts 67412-7107 and 74017 REL 10. 113 pp.

Ricker W. E. 1975. Computation and interpretation of biological statistics of fish populations. Bulletin of the Fisheries Research Board of Canada. Bulletin 191. 382 pp.

# APPENDIX B – FLOW-PRODUCTIVITY SPREADSHEET FROM NOAA

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| Population size (spawners) | Month | Percent of average monthly flow, without the action | Amount of reduction (pecrent of average) | Percent of average monthly flow, with the action | Productivity without the action | Productivity without the action |
|---|---|---|---|---|---|---|
| **389.56** | March | 100 | **10** | 90 | 1.018425593 | 0.884075245 |
| | April | 100 | **10** | 90 | 1.004523053 | 1.001514 |
| | May | 100 | **10** | 90 | 0.97999551 | 0.935001366 |
| | June | 100 | **10** | 90 | 1.097857865 | 1.013450541 |
| | July | 100 | **10** | 90 | 1.23745955 | 1.120819964 |
| | August | 100 | **10** | 90 | 1.127518867 | 0.938023315 |
| | September | 100 | **10** | 90 | 1.035776092 | 0.910420219 |
| | October | 100 | **10** | 90 | 0.988241176 | 0.875615242 |
| | November | 100 | **10** | 90 | 0.966923851 | 0.864472716 |
| | December | 100 | **10** | 90 | 1.053783907 | 0.944960083 |
| | January | 100 | **10** | 90 | 1.127706558 | 0.88975065 |
| | February | 100 | **10** | 90 | 1.085065922 | 0.923708016 |
| | | | | | 1.060273162 | 0.941817613 |
| | | | | | Impact of the flow reduction on productivity (% reduction in productivity) | 11.2 |




Put the estimated amount of flow reduction (expressed as percent of monthly average) in the appropriate cell in column E. Productivity without the proposed reduction is in cell G14, productivity with the proposed flow reduction is in cell H14, and the impact of the flow reduction is in cell H15. Change cell B2 to see how population size affects productivity.

| | | | | | | |
|---|---|---|---|---|---|---|
| | Full year | 100 | **10** | 90 | 1.081891293 | 0.91366683 |

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# APPENDIX C – MONTHLY CHANGE IN DISCHARGE SPREADSHEET FROM RIO ASE

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| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -2 | January | 5.0 | 5.0 | 0% | 0% | 10.4 | 10.1 | -3% | -3% | 15.8 | 15.5 | -2% | -2% | 11.6 | 11.6 | 0% | 0% | 3.2 | 0.4 | -87% | -87% | 5.0 | 4.7 | -6% | -6% |
| -2 | February | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.3 | -3% | -3% | 13.3 | 13.0 | -2% | -2% | 9.9 | 9.9 | 0% | 0% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.2 | -7% | -7% |
| -2 | March | 13.1 | 13.1 | 0% | 0% | 28.6 | 28.2 | -1% | -1% | 36.3 | 35.9 | -1% | -1% | 27.8 | 27.8 | 0% | 0% | 6.9 | 5.7 | -17% | -17% | 14.1 | 13.8 | -2% | -2% |
| -2 | April | 29.1 | 29.1 | 0% | 0% | 62.7 | 62.2 | -1% | -1% | 76.5 | 76.0 | -1% | -1% | 51.4 | 51.4 | 0% | 0% | 19.6 | 19.3 | -1% | -1% | 32.5 | 32.0 | -2% | -2% |
| -2 | May | 55.3 | 55.3 | 0% | 0% | 119.9 | 119.2 | -1% | -1% | 148.6 | 148.0 | 0% | 0% | 105.6 | 105.7 | 0% | 0% | 37.1 | 39.3 | 6% | 6% | 60.7 | 60.1 | -1% | -1% |
| -2 | June | 13.3 | 13.3 | 0% | 0% | 27.4 | 26.8 | -2% | 0% | 36.5 | 36.0 | -2% | 0% | 28.4 | 28.4 | 0% | 0% | 7.2 | 4.8 | -34% | -5% | 13.6 | 13.0 | -4% | -1% |
| -2 | July | 6.7 | 6.7 | 0% | 0% | 14.2 | 13.6 | -4% | -1% | 20.7 | 20.2 | -3% | -1% | 15.7 | 15.6 | 0% | 0% | 4.1 | 1.1 | -73% | -21% | 6.9 | 6.4 | -7% | -2% |
| -2 | August | 5.8 | 5.8 | 0% | 0% | 12.0 | 11.6 | -3% | -3% | 17.8 | 17.4 | -2% | -2% | 13.4 | 13.4 | 0% | 0% | 3.6 | 0.7 | -81% | -81% | 5.8 | 5.4 | -7% | -7% |
| -2 | September | 7.0 | 7.0 | 0% | 0% | 14.5 | 14.1 | -3% | -3% | 20.6 | 20.3 | -2% | -2% | 16.3 | 16.3 | 0% | 0% | 3.7 | 1.2 | -67% | -67% | 7.2 | 6.8 | -5% | -5% |
| -2 | October | 6.9 | 6.9 | 0% | 0% | 14.3 | 13.9 | -3% | -3% | 20.4 | 20.0 | -2% | -2% | 15.9 | 15.9 | 0% | 0% | 3.7 | 1.0 | -73% | -73% | 6.9 | 6.5 | -6% | -6% |
| -2 | November | 5.2 | 5.2 | 0% | 0% | 10.8 | 10.4 | -4% | -4% | 15.9 | 15.5 | -3% | -3% | 12.1 | 12.1 | 0% | 0% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.1 | -8% | -8% |
| -2 | December | 4.6 | 4.6 | 0% | 0% | 9.8 | 9.4 | -4% | -4% | 14.6 | 14.2 | -3% | -3% | 11.0 | 11.0 | 0% | 0% | 3.0 | 0.3 | -90% | -90% | 4.9 | 4.5 | -8% | -8% |
| -1 | January | 4.1 | 4.1 | 0% | 0% | 8.7 | 7.1 | -18% | -18% | 13.2 | 11.6 | -12% | -12% | 9.9 | 9.9 | 0% | 0% | 2.7 | 0.1 | -96% | -96% | 4.4 | 2.8 | -36% | -36% |
| -1 | February | 3.3 | 3.3 | 0% | 0% | 7.2 | 5.9 | -17% | -17% | 10.9 | 9.7 | -11% | -11% | 8.2 | 8.2 | 0% | 0% | 2.4 | 0.1 | -96% | -96% | 4.1 | 2.7 | -33% | -33% |
| -1 | March | 3.7 | 3.7 | 0% | 0% | 8.0 | 6.8 | -15% | -15% | 12.1 | 10.8 | -10% | -10% | 9.1 | 9.1 | 0% | 0% | 2.4 | 0.0 | -100% | -100% | 4.0 | 2.8 | -31% | -31% |
| -1 | April | 11.0 | 11.0 | 0% | 0% | 24.1 | 22.9 | -5% | -5% | 30.6 | 29.4 | -4% | -4% | 23.1 | 23.1 | 0% | 0% | 5.5 | 4.4 | -19% | -16% | 12.2 | 11.0 | -10% | -10% |
| -1 | May | 32.9 | 32.9 | 0% | 0% | 71.4 | 69.8 | -2% | -2% | 84.4 | 82.9 | -2% | -1% | 57.6 | 56.2 | -2% | -2% | 21.5 | 21.8 | 1% | 1% | 36.0 | 34.4 | -4% | -3% |
| -1 | June | 14.9 | 14.9 | 0% | 0% | 31.4 | 30.0 | -4% | -1% | 39.1 | 37.8 | -4% | -1% | 28.6 | 28.4 | -1% | 0% | 8.6 | 6.6 | -23% | -4% | 15.8 | 14.3 | -9% | -2% |
| -1 | July | 6.3 | 6.3 | 0% | 0% | 13.4 | 12.3 | -8% | -3% | 19.0 | 18.0 | -5% | -2% | 13.8 | 13.8 | 0% | 0% | 3.8 | 1.0 | -74% | -20% | 6.6 | 5.5 | -17% | -5% |
| -1 | August | 5.4 | 5.4 | 0% | 0% | 11.4 | 10.5 | -8% | -8% | 16.6 | 15.7 | -5% | -5% | 12.1 | 12.3 | 1% | 1% | 3.5 | 0.7 | -80% | -80% | 5.6 | 4.7 | -16% | -16% |
| -1 | September | 4.6 | 4.6 | 0% | 0% | 9.7 | 8.9 | -8% | -8% | 14.4 | 13.6 | -5% | -5% | 10.8 | 11.0 | 2% | 2% | 3.0 | 0.4 | -87% | -87% | 5.0 | 4.1 | -18% | -18% |
| -1 | October | 5.2 | 5.2 | 0% | 0% | 10.9 | 10.2 | -6% | -6% | 16.0 | 15.3 | -4% | -4% | 12.5 | 12.7 | 2% | 2% | 3.1 | 0.4 | -87% | -87% | 5.3 | 4.5 | -14% | -14% |
| -1 | November | 4.2 | 4.2 | 0% | 0% | 8.9 | 8.1 | -9% | -9% | 13.2 | 12.4 | -6% | -6% | 10.0 | 10.2 | 1% | 1% | 2.7 | 0.1 | -96% | -96% | 4.6 | 3.7 | -19% | -19% |
| -1 | December | 3.7 | 3.7 | 0% | 0% | 8.1 | 7.4 | -9% | -9% | 12.2 | 11.5 | -6% | -6% | 9.1 | 9.3 | 2% | 2% | 2.5 | 0.0 | -100% | -100% | 4.2 | 3.4 | -18% | -18% |
| 1 | January | 3.4 | 3.4 | 1% | 1% | 7.5 | 7.6 | 2% | 2% | 11.2 | 9.3 | -17% | -17% | 8.3 | 8.4 | 2% | 2% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.2 | -16% | -16% |
| 1 | February | 2.8 | 2.9 | 1% | 1% | 6.3 | 6.6 | 6% | 6% | 9.4 | 7.8 | -17% | -17% | 6.8 | 7.0 | 3% | 3% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.1 | -14% | -14% |
| 1 | March | 2.9 | 2.9 | 2% | 2% | 6.5 | 6.9 | 6% | 6% | 9.7 | 7.9 | -18% | -18% | 6.9 | 7.0 | 2% | 2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 2.9 | -15% | -15% |
| 1 | April | 52.6 | 52.6 | 0% | 0% | 116.8 | 116.9 | 0% | 0% | 138.0 | 137.0 | -1% | -1% | 95.1 | 92.2 | -3% | -3% | 36.8 | 41.2 | 12% | 12% | 61.7 | 60.9 | -1% | -1% |
| 1 | May | 85.6 | 85.7 | 0% | 0% | 184.1 | 183.6 | 0% | 0% | 227.2 | 229.0 | 1% | 1% | 167.8 | 165.7 | -1% | -1% | 56.3 | 62.3 | 11% | 11% | 92.7 | 91.3 | -1% | -1% |
| 1 | June | 50.6 | 50.6 | 0% | 0% | 106.8 | 106.3 | -1% | 0% | 135.2 | 133.7 | -1% | -1% | 100.0 | 100.3 | 0% | 0% | 32.9 | 34.6 | 5% | 4% | 54.7 | 53.2 | -3% | -2% |
| 1 | July | 7.1 | 7.1 | 1% | 0% | 14.2 | 14.3 | 1% | 0% | 21.5 | 17.8 | -17% | -9% | 15.4 | 16.2 | 6% | 3% | 3.7 | 0.9 | -75% | -20% | 6.6 | 5.8 | -12% | -4% |
| 1 | August | 5.9 | 5.9 | 1% | 1% | 11.9 | 12.3 | 4% | 4% | 18.0 | 15.2 | -15% | -15% | 13.1 | 13.7 | 5% | 5% | 3.4 | 0.7 | -79% | -79% | 5.6 | 5.1 | -9% | -9% |
| 1 | September | 5.0 | 5.0 | 1% | 1% | 10.0 | 10.4 | 5% | 5% | 15.3 | 12.9 | -16% | -16% | 11.4 | 11.9 | 4% | 4% | 2.9 | 0.4 | -86% | -86% | 4.9 | 4.4 | -10% | -10% |
| 1 | October | 4.8 | 4.8 | 1% | 1% | 9.6 | 10.1 | 4% | 4% | 14.9 | 12.5 | -17% | -17% | 11.3 | 11.7 | 4% | 4% | 2.7 | 0.1 | -96% | -96% | 4.6 | 4.0 | -13% | -13% |
| 1 | November | 4.1 | 4.2 | 1% | 1% | 8.4 | 8.8 | 5% | 5% | 13.1 | 10.9 | -17% | -17% | 9.8 | 10.2 | 3% | 3% | 2.4 | 0.1 | -96% | -96% | 4.1 | 3.6 | -12% | -12% |
| 1 | December | 3.8 | 3.9 | 1% | 1% | 7.8 | 8.4 | 7% | 7% | 12.4 | 10.2 | -18% | -18% | 9.0 | 9.4 | 4% | 4% | 2.3 | 0.1 | -96% | -96% | 3.8 | 3.4 | -12% | -12% |
| 2 | January | 3.4 | 3.4 | 1% | 1% | 7.1 | 7.7 | 9% | 9% | 11.3 | 8.6 | -24% | -24% | 8.1 | 8.5 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.2 | -11% | -11% |
| 2 | February | 2.7 | 2.8 | 3% | 3% | 5.9 | 6.5 | 10% | 10% | 9.4 | 7.1 | -25% | -25% | 6.7 | 7.0 | 4% | 4% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.0 | -11% | -11% |
| 2 | March | 10.4 | 10.4 | 0% | 0% | 22.6 | 23.1 | 2% | 2% | 29.4 | 26.7 | -9% | -9% | 22.7 | 23.0 | 1% | 1% | 4.8 | 4.0 | -16% | -16% | 10.9 | 10.3 | -5% | -5% |
| 2 | April | 24.5 | 24.5 | 0% | 0% | 53.1 | 52.8 | 0% | 0% | 62.3 | 60.2 | -3% | -3% | 43.5 | 42.9 | -1% | -1% | 15.9 | 15.7 | -1% | -1% | 27.5 | 26.3 | -4% | -4% |
| 2 | May | 33.5 | 33.5 | 0% | 0% | 72.0 | 71.5 | -1% | -1% | 87.9 | 84.5 | -4% | -3% | 61.9 | 60.5 | -2% | -2% | 21.7 | 21.7 | 0% | 0% | 36.1 | 34.6 | -4% | -3% |
| 2 | June | 7.1 | 7.1 | 1% | 0% | 14.9 | 15.0 | 0% | 0% | 21.2 | 16.9 | -20% | -3% | 15.7 | 15.7 | 0% | 0% | 4.1 | 1.2 | -70% | -6% | 7.5 | 6.5 | -13% | -1% |
| 2 | July | 5.9 | 6.0 | 1% | 0% | 12.3 | 12.8 | 3% | 1% | 18.0 | 14.2 | -21% | -9% | 13.2 | 13.4 | 2% | 1% | 3.6 | 0.8 | -78% | -20% | 6.0 | 5.4 | -10% | -3% |
| 2 | August | 5.0 | 5.1 | 1% | 1% | 10.4 | 11.0 | 5% | 5% | 15.7 | 12.1 | -23% | -23% | 11.6 | 11.9 | 3% | 3% | 3.1 | 0.4 | -87% | -87% | 5.1 | 4.6 | -10% | -10% |
| 2 | September | 6.1 | 6.1 | 1% | 1% | 12.5 | 13.0 | 3% | 3% | 18.1 | 14.6 | -19% | -19% | 14.1 | 14.5 | 2% | 2% | 3.3 | 0.9 | -73% | -73% | 6.2 | 5.6 | -10% | -10% |
| 2 | October | 13.2 | 13.2 | 0% | 0% | 28.4 | 28.3 | 0% | 0% | 35.9 | 32.1 | -11% | -11% | 27.6 | 27.9 | 1% | 1% | 6.7 | 5.0 | -25% | -25% | 13.9 | 12.9 | -8% | -8% |
| 2 | November | 5.5 | 5.6 | 1% | 1% | 11.6 | 12.0 | 3% | 3% | 16.7 | 13.3 | -20% | -20% | 12.2 | 12.4 | 2% | 2% | 3.5 | 0.8 | -77% | -77% | 5.9 | 5.3 | -11% | -11% |
| 2 | December | 4.9 | 4.9 | 1% | 1% | 10.4 | 10.9 | 5% | 5% | 15.1 | 11.9 | -22% | -22% | 10.9 | 11.2 | 2% | 2% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.6 | -11% | -11% |
| 3 | January | 4.3 | 4.3 | 1% | 1% | 9.1 | 9.6 | 5% | 5% | 13.5 | 10.2 | -24% | -24% | 10.0 | 10.2 | 2% | 2% | 2.9 | 0.3 | -90% | -90% | 4.6 | 4.1 | -11% | -11% |
| 3 | February | 3.5 | 3.6 | 1% | 1% | 7.7 | 8.1 | 6% | 6% | 11.5 | 8.4 | -27% | -27% | 8.5 | 8.7 | 2% | 2% | 2.6 | 0.1 | -96% | -96% | 4.2 | 3.8 | -11% | -11% |
| 3 | March | 3.4 | 3.5 | 1% | 1% | 7.5 | 8.0 | 7% | 7% | 11.2 | 8.0 | -29% | -29% | 8.2 | 8.4 | 2% | 2% | 2.3 | 0.1 | -96% | -96% | 3.9 | 3.5 | -11% | -11% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | April | 4.2 | 4.2 | 1% | 1% | 8.9 | 9.2 | 4% | 2% | 12.9 | 9.6 | -26% | -14% | 9.9 | 10.1 | 2% | 1% | 2.6 | 0.4 | -84% | -32% | 4.5 | 3.9 | -13% | -5% |
| 3 | May | 67.6 | 67.7 | 0% | 0% | 149.4 | 149.4 | 0% | 0% | 177.8 | 177.4 | 0% | 0% | 124.6 | 121.0 | -3% | -3% | 46.2 | 51.4 | 11% | 11% | 76.5 | 75.7 | -1% | -1% |
| 3 | June | 53.2 | 53.2 | 0% | 0% | 113.2 | 112.7 | 0% | 0% | 141.0 | 138.4 | -2% | -2% | 103.3 | 102.5 | -1% | -1% | 35.1 | 37.4 | 7% | 5% | 58.3 | 57.0 | -2% | -2% |
| 3 | July | 6.8 | 6.9 | 1% | 0% | 13.7 | 13.9 | 1% | 0% | 20.5 | 15.4 | -25% | -12% | 14.6 | 15.6 | 7% | 3% | 3.6 | 0.8 | -78% | -20% | 6.4 | 5.6 | -12% | -3% |
| 3 | August | 5.7 | 5.8 | 2% | 2% | 11.6 | 12.0 | 4% | 4% | 17.5 | 13.1 | -25% | -25% | 12.7 | 13.4 | 5% | 5% | 3.4 | 0.6 | -82% | -82% | 5.4 | 5.0 | -9% | -9% |
| 3 | September | 4.9 | 5.0 | 1% | 1% | 9.8 | 10.3 | 4% | 4% | 15.1 | 11.1 | -26% | -26% | 11.2 | 11.7 | 5% | 5% | 2.9 | 0.3 | -90% | -90% | 4.8 | 4.3 | -10% | -10% |
| 3 | October | 4.5 | 4.5 | 1% | 1% | 9.0 | 9.4 | 5% | 5% | 14.1 | 10.2 | -28% | -28% | 10.5 | 11.0 | 4% | 4% | 2.6 | 0.1 | -96% | -96% | 4.3 | 3.8 | -11% | -11% |
| 3 | November | 4.3 | 4.4 | 1% | 1% | 8.7 | 9.0 | 4% | 4% | 13.5 | 9.7 | -28% | -28% | 10.1 | 10.5 | 4% | 4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 3.7 | -13% | -13% |
| 3 | December | 3.9 | 3.9 | 1% | 1% | 8.0 | 8.4 | 5% | 5% | 12.6 | 8.9 | -29% | -29% | 9.2 | 9.6 | 5% | 5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.4 | -12% | -12% |
| 4 | January | 3.4 | 3.5 | 2% | 2% | 7.2 | 7.8 | 8% | 8% | 11.4 | 8.1 | -29% | -29% | 8.2 | 8.6 | 5% | 5% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.2 | -11% | -11% |
| 4 | February | 2.8 | 2.8 | 2% | 2% | 6.0 | 6.6 | 10% | 10% | 9.4 | 6.6 | -30% | -30% | 6.7 | 7.1 | 5% | 5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.0 | -11% | -11% |
| 4 | March | 2.8 | 2.8 | 2% | 2% | 6.1 | 6.8 | 11% | 11% | 9.6 | 6.7 | -31% | -31% | 6.8 | 7.1 | 5% | 5% | 1.8 | 0.0 | -100% | -100% | 3.2 | 2.8 | -11% | -11% |
| 4 | April | 15.8 | 15.8 | 0% | 0% | 35.0 | 35.4 | 1% | 1% | 42.6 | 39.8 | -7% | -7% | 31.2 | 31.2 | 0% | 0% | 9.0 | 9.2 | 2% | 2% | 17.9 | 17.3 | -3% | -3% |
| 4 | May | 57.7 | 57.7 | 0% | 0% | 125.7 | 125.4 | 0% | 0% | 150.2 | 148.8 | -1% | -1% | 105.6 | 102.5 | -3% | -3% | 38.7 | 42.2 | 9% | 9% | 63.8 | 62.6 | -2% | -2% |
| 4 | June | 38.5 | 38.5 | 0% | 0% | 81.8 | 81.3 | -1% | 0% | 102.4 | 98.5 | -4% | -3% | 75.5 | 74.8 | -1% | -1% | 25.0 | 25.6 | 2% | 1% | 42.0 | 40.5 | -4% | -2% |
| 4 | July | 6.6 | 6.7 | 1% | 0% | 13.5 | 13.8 | 2% | 1% | 20.2 | 15.2 | -25% | -12% | 14.5 | 15.4 | 6% | 3% | 3.6 | 0.9 | -75% | -19% | 6.4 | 5.7 | -12% | -3% |
| 4 | August | 5.6 | 5.6 | 1% | 1% | 11.3 | 11.9 | 5% | 5% | 17.1 | 12.8 | -25% | -25% | 12.5 | 13.2 | 5% | 5% | 3.3 | 0.5 | -85% | -85% | 5.4 | 4.9 | -9% | -9% |
| 4 | September | 4.7 | 4.8 | 1% | 1% | 9.6 | 10.1 | 6% | 6% | 14.7 | 10.9 | -26% | -26% | 10.9 | 11.4 | 4% | 4% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.2 | -10% | -10% |
| 4 | October | 12.3 | 12.4 | 0% | 0% | 26.4 | 26.5 | 0% | 0% | 34.1 | 29.9 | -12% | -12% | 27.0 | 27.5 | 2% | 2% | 6.0 | 4.6 | -23% | -23% | 12.8 | 11.9 | -7% | -7% |
| 4 | November | 5.3 | 5.3 | 1% | 1% | 10.8 | 11.2 | 4% | 4% | 16.1 | 12.1 | -24% | -24% | 11.6 | 12.0 | 3% | 3% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.8 | -11% | -11% |
| 4 | December | 4.7 | 4.7 | 1% | 1% | 9.8 | 10.2 | 5% | 5% | 14.7 | 10.8 | -26% | -26% | 10.6 | 10.9 | 3% | 3% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.2 | -11% | -11% |
| 5 | January | 4.1 | 4.2 | 2% | 2% | 8.6 | 9.7 | 13% | 13% | 13.2 | 9.9 | -25% | -25% | 9.6 | 9.9 | 3% | 3% | 2.6 | 0.3 | -88% | -88% | 4.3 | 3.9 | -8% | -8% |
| 5 | February | 3.3 | 3.3 | 2% | 2% | 7.0 | 8.1 | 16% | 16% | 10.8 | 8.0 | -26% | -26% | 7.9 | 8.1 | 3% | 3% | 2.4 | 0.1 | -96% | -96% | 3.9 | 3.6 | -8% | -8% |
| 5 | March | 3.4 | 3.5 | 3% | 3% | 7.4 | 8.6 | 16% | 16% | 11.5 | 8.3 | -27% | -27% | 8.4 | 8.7 | 3% | 3% | 2.3 | 0.1 | -96% | -96% | 3.8 | 3.4 | -9% | -9% |
| 5 | April | 13.8 | 13.9 | 1% | 1% | 30.4 | 31.2 | 3% | 3% | 37.6 | 34.5 | -8% | -8% | 27.8 | 28.0 | 1% | 1% | 7.8 | 7.2 | -7% | -7% | 15.5 | 14.9 | -4% | -4% |
| 5 | May | 38.4 | 38.5 | 0% | 0% | 83.1 | 83.4 | 0% | 0% | 99.3 | 96.7 | -3% | -2% | 67.6 | 66.0 | -2% | -2% | 25.4 | 26.5 | 4% | 3% | 41.9 | 40.6 | -3% | -2% |
| 5 | June | 68.5 | 68.6 | 0% | 0% | 148.3 | 148.4 | 0% | 0% | 183.4 | 181.0 | -1% | -1% | 134.6 | 132.4 | -2% | -2% | 47.3 | 51.4 | 9% | 8% | 77.6 | 76.2 | -2% | -2% |
| 5 | July | 6.9 | 7.0 | 1% | 1% | 14.0 | 14.9 | 6% | 2% | 20.8 | 15.9 | -24% | -11% | 14.9 | 15.8 | 6% | 3% | 3.7 | 0.9 | -76% | -20% | 6.6 | 5.9 | -11% | -3% |
| 5 | August | 5.7 | 5.8 | 1% | 1% | 11.7 | 12.9 | 10% | 10% | 17.6 | 13.5 | -23% | -23% | 12.8 | 13.5 | 5% | 5% | 3.4 | 0.7 | -79% | -79% | 5.6 | 5.1 | -8% | -8% |
| 5 | September | 4.9 | 5.0 | 2% | 2% | 9.9 | 11.0 | 12% | 12% | 15.1 | 11.5 | -24% | -24% | 11.2 | 11.7 | 4% | 4% | 2.9 | 0.4 | -86% | -86% | 4.8 | 4.4 | -8% | -8% |
| 5 | October | 7.2 | 7.3 | 1% | 1% | 14.9 | 15.9 | 7% | 7% | 21.2 | 17.4 | -18% | -18% | 16.9 | 17.4 | 3% | 3% | 3.3 | 1.2 | -64% | -64% | 6.9 | 6.4 | -8% | -8% |
| 5 | November | 4.8 | 4.9 | 2% | 2% | 9.8 | 10.8 | 11% | 11% | 14.8 | 11.2 | -24% | -24% | 11.0 | 11.4 | 4% | 4% | 2.9 | 0.2 | -93% | -93% | 4.8 | 4.3 | -10% | -10% |
| 5 | December | 4.3 | 4.4 | 2% | 2% | 8.9 | 10.0 | 13% | 13% | 13.6 | 10.1 | -26% | -26% | 9.9 | 10.3 | 3% | 3% | 2.6 | 0.2 | -92% | -92% | 4.3 | 3.9 | -10% | -10% |
| 6 | January | 3.8 | 3.8 | 2% | 2% | 7.9 | 9.2 | 17% | 17% | 12.3 | 9.0 | -26% | -26% | 8.9 | 9.2 | 4% | 4% | 2.3 | 0.1 | -96% | -96% | 3.9 | 3.6 | -8% | -8% |
| 6 | February | 3.0 | 3.1 | 3% | 3% | 6.5 | 7.8 | 20% | 20% | 10.1 | 7.3 | -28% | -28% | 7.3 | 7.6 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.4 | -8% | -8% |
| 6 | March | 3.0 | 3.1 | 3% | 3% | 6.6 | 8.0 | 22% | 22% | 10.3 | 7.4 | -28% | -28% | 7.4 | 7.7 | 4% | 4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.1 | -8% | -8% |
| 6 | April | 6.9 | 7.0 | 1% | 1% | 15.0 | 16.3 | 9% | 7% | 20.5 | 17.7 | -14% | -11% | 16.8 | 17.0 | 2% | 2% | 3.0 | 1.9 | -37% | -16% | 7.4 | 7.1 | -4% | -3% |
| 6 | May | 57.8 | 57.9 | 0% | 0% | 127.3 | 127.8 | 0% | 0% | 150.6 | 149.3 | -1% | -1% | 103.6 | 100.8 | -3% | -3% | 39.6 | 43.2 | 9% | 9% | 65.1 | 64.0 | -2% | -2% |
| 6 | June | 64.8 | 64.9 | 0% | 0% | 139.1 | 139.4 | 0% | 0% | 172.9 | 170.9 | -1% | -1% | 127.1 | 125.9 | -1% | -1% | 43.8 | 47.5 | 8% | 8% | 72.2 | 70.9 | -2% | -2% |
| 6 | July | 6.8 | 6.9 | 1% | 1% | 13.6 | 14.7 | 8% | 3% | 20.6 | 15.6 | -24% | -12% | 14.6 | 15.5 | 6% | 3% | 3.6 | 0.9 | -75% | -19% | 6.3 | 5.7 | -10% | -3% |
| 6 | August | 5.7 | 5.8 | 2% | 2% | 11.4 | 12.8 | 12% | 12% | 17.4 | 13.2 | -24% | -24% | 12.7 | 13.3 | 5% | 5% | 3.3 | 0.5 | -85% | -85% | 5.4 | 5.0 | -7% | -7% |
| 6 | September | 4.8 | 4.9 | 2% | 2% | 9.7 | 10.9 | 13% | 13% | 14.9 | 11.2 | -25% | -25% | 11.1 | 11.6 | 4% | 4% | 2.9 | 0.4 | -86% | -86% | 4.7 | 4.3 | -8% | -8% |
| 6 | October | 7.8 | 7.9 | 1% | 1% | 16.1 | 17.2 | 7% | 7% | 22.6 | 18.8 | -17% | -17% | 18.4 | 18.8 | 2% | 2% | 3.4 | 1.4 | -59% | -59% | 7.5 | 6.9 | -7% | -7% |
| 6 | November | 4.9 | 4.9 | 2% | 2% | 9.9 | 11.1 | 12% | 12% | 14.9 | 11.3 | -24% | -24% | 11.0 | 11.4 | 4% | 4% | 2.9 | 0.3 | -90% | -90% | 4.8 | 4.4 | -10% | -10% |
| 6 | December | 4.3 | 4.4 | 2% | 2% | 9.0 | 10.2 | 14% | 14% | 13.7 | 10.2 | -26% | -26% | 10.0 | 10.3 | 4% | 4% | 2.7 | 0.3 | -89% | -89% | 4.4 | 3.9 | -10% | -10% |
| 7 | January | 3.8 | 4.0 | 5% | 5% | 8.0 | 10.2 | 28% | 28% | 12.4 | 9.9 | -20% | -20% | 9.0 | 9.3 | 4% | 4% | 2.4 | 0.1 | -96% | -96% | 4.0 | 2.5 | -37% | -37% |
| 7 | February | 3.1 | 3.4 | 7% | 7% | 6.7 | 8.9 | 33% | 33% | 10.5 | 8.5 | -19% | -19% | 7.6 | 7.9 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 2.0 | -44% | -44% |
| 7 | March | 3.2 | 3.4 | 7% | 7% | 6.9 | 9.2 | 33% | 33% | 10.7 | 8.6 | -20% | -20% | 7.7 | 8.0 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 1.8 | -48% | -48% |
| 7 | April | 42.4 | 42.6 | 0% | 0% | 94.1 | 95.0 | 1% | 1% | 111.3 | 110.0 | -1% | -1% | 77.0 | 75.1 | -2% | -2% | 29.4 | 32.5 | 11% | 11% | 49.6 | 46.5 | -6% | -6% |
| 7 | May | 60.6 | 60.8 | 0% | 0% | 130.8 | 131.3 | 0% | 0% | 161.1 | 158.8 | -1% | -1% | 117.8 | 115.5 | -2% | -2% | 39.9 | 43.1 | 8% | 8% | 66.0 | 62.6 | -5% | -5% |
| 7 | June | 30.2 | 30.5 | 1% | 0% | 63.2 | 63.6 | 1% | 0% | 80.9 | 76.4 | -6% | -3% | 59.4 | 59.8 | 1% | 0% | 18.8 | 18.3 | -3% | -1% | 32.0 | 28.3 | -11% | -5% |
| 7 | July | 6.7 | 6.9 | 4% | 2% | 13.7 | 14.9 | 8% | 3% | 20.7 | 15.8 | -24% | -12% | 14.7 | 15.7 | 6% | 3% | 3.7 | 0.9 | -75% | -20% | 6.5 | 3.7 | -44% | -13% |
| 7 | August | 5.6 | 5.8 | 4% | 4% | 11.5 | 13.1 | 14% | 14% | 17.4 | 13.6 | -22% | -22% | 12.6 | 13.3 | 5% | 5% | 3.3 | 0.6 | -82% | -82% | 5.5 | 3.1 | -44% | -44% |
| 7 | September | 4.8 | 5.0 | 4% | 4% | 9.7 | 11.5 | 19% | 19% | 14.9 | 11.8 | -21% | -21% | 11.0 | 11.5 | 4% | 4% | 2.9 | 0.3 | -90% | -90% | 4.7 | 2.7 | -44% | -44% |
| 7 | October | 11.1 | 11.3 | 2% | 2% | 23.6 | 24.5 | 4% | 4% | 31.2 | 27.2 | -13% | -13% | 25.1 | 25.6 | 2% | 2% | 5.2 | 3.6 | -30% | -30% | 11.4 | 8.2 | -28% | -28% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | November | 5.4 | 5.7 | 4% | 4% | 11.1 | 12.6 | 13% | 13% | 16.4 | 13.0 | -21% | -21% | 11.9 | 12.3 | 3% | 3% | 3.1 | 0.5 | -84% | -84% | 5.4 | 2.9 | -46% | -46% |
| 7 | December | 4.8 | 5.0 | 5% | 5% | 10.0 | 11.9 | 20% | 20% | 15.0 | 12.0 | -20% | -20% | 10.8 | 11.2 | 3% | 3% | 3.0 | 0.4 | -87% | -87% | 4.9 | 2.8 | -43% | -43% |
| 8 | January | 4.2 | 4.5 | 7% | 7% | 8.8 | 11.8 | 34% | 34% | 13.4 | 11.6 | -13% | -13% | 9.8 | 10.1 | 3% | 3% | 2.8 | 0.2 | -93% | -93% | 4.4 | 2.1 | -51% | -51% |
| 8 | February | 3.3 | 3.6 | 8% | 8% | 7.1 | 9.7 | 37% | 37% | 11.0 | 9.4 | -14% | -14% | 8.0 | 8.2 | 3% | 3% | 2.5 | 0.1 | -96% | -96% | 4.0 | 1.6 | -59% | -59% |
| 8 | March | 3.6 | 3.9 | 9% | 9% | 7.8 | 10.6 | 36% | 36% | 11.9 | 10.1 | -15% | -15% | 8.7 | 9.0 | 3% | 3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 1.4 | -64% | -64% |
| 8 | April | 21.2 | 21.5 | 1% | 1% | 46.7 | 47.2 | 1% | 1% | 55.4 | 52.5 | -5% | -5% | 39.8 | 39.5 | -1% | -1% | 13.4 | 13.5 | 1% | 1% | 24.2 | 19.4 | -20% | -20% |
| 8 | May | 44.0 | 44.3 | 1% | 1% | 95.2 | 95.7 | 1% | 1% | 115.5 | 112.4 | -3% | -3% | 80.3 | 78.4 | -2% | -2% | 29.2 | 30.6 | 5% | 4% | 48.0 | 43.3 | -10% | -9% |
| 8 | June | 27.3 | 27.6 | 1% | 1% | 57.9 | 58.3 | 1% | 0% | 73.0 | 68.4 | -6% | -3% | 53.6 | 53.1 | -1% | -1% | 17.5 | 16.6 | -5% | -2% | 29.6 | 24.8 | -16% | -7% |
| 8 | July | 6.6 | 7.0 | 5% | 2% | 13.8 | 15.3 | 10% | 4% | 20.2 | 16.2 | -20% | -10% | 14.5 | 14.8 | 2% | 1% | 3.8 | 1.0 | -74% | -20% | 6.7 | 2.9 | -57% | -17% |
| 8 | August | 5.6 | 5.9 | 6% | 6% | 11.6 | 13.7 | 19% | 19% | 17.3 | 14.2 | -18% | -18% | 12.6 | 13.1 | 4% | 4% | 3.4 | 0.7 | -79% | -79% | 5.6 | 2.5 | -56% | -56% |
| 8 | September | 27.4 | 27.7 | 1% | 1% | 59.1 | 59.6 | 1% | 1% | 73.1 | 69.1 | -6% | -6% | 53.8 | 53.4 | -1% | -1% | 17.6 | 17.4 | -1% | -1% | 30.5 | 25.7 | -16% | -16% |
| 8 | October | 6.3 | 6.6 | 5% | 5% | 13.1 | 14.8 | 13% | 13% | 19.3 | 15.6 | -19% | -19% | 13.9 | 14.2 | 3% | 3% | 3.6 | 0.8 | -78% | -78% | 6.3 | 2.7 | -57% | -57% |
| 8 | November | 5.2 | 5.5 | 6% | 6% | 10.7 | 12.9 | 20% | 20% | 16.2 | 13.3 | -18% | -18% | 11.6 | 12.0 | 4% | 4% | 3.4 | 0.6 | -82% | -82% | 5.4 | 2.4 | -56% | -56% |
| 8 | December | 4.7 | 5.0 | 7% | 7% | 9.7 | 12.3 | 26% | 26% | 14.9 | 12.4 | -17% | -17% | 11.0 | 11.4 | 4% | 4% | 2.9 | 0.3 | -90% | -90% | 4.7 | 2.0 | -58% | -58% |
| 9 | January | 4.1 | 4.4 | 6% | 6% | 8.6 | 9.7 | 13% | 13% | 13.5 | 10.0 | -26% | -26% | 10.0 | 10.4 | 4% | 4% | 2.6 | 0.2 | -92% | -92% | 4.3 | 1.4 | -66% | -66% |
| 9 | February | 3.3 | 3.5 | 6% | 6% | 7.0 | 8.0 | 13% | 13% | 11.1 | 8.4 | -24% | -24% | 8.2 | 8.5 | 4% | 4% | 2.3 | 0.1 | -96% | -96% | 3.9 | 1.2 | -69% | -69% |
| 9 | March | 3.6 | 3.9 | 6% | 6% | 7.8 | 8.6 | 11% | 11% | 12.1 | 9.2 | -24% | -24% | 8.9 | 9.3 | 4% | 4% | 2.3 | 0.0 | -100% | -100% | 3.9 | 1.1 | -73% | -73% |
| 9 | April | 20.1 | 20.3 | 1% | 1% | 44.2 | 42.6 | -4% | -4% | 52.9 | 48.6 | -8% | -8% | 38.6 | 38.5 | 0% | 0% | 12.2 | 12.3 | 1% | 1% | 22.9 | 17.5 | -23% | -23% |
| 9 | May | 46.3 | 46.6 | 0% | 0% | 100.4 | 99.0 | -1% | -1% | 122.0 | 118.0 | -3% | -3% | 85.6 | 83.5 | -2% | -2% | 30.9 | 32.5 | 5% | 4% | 50.7 | 45.6 | -10% | -10% |
| 9 | June | 19.5 | 19.7 | 1% | 0% | 40.8 | 39.5 | -3% | -1% | 52.1 | 46.5 | -11% | -4% | 38.5 | 38.5 | 0% | 0% | 11.7 | 10.0 | -14% | -3% | 20.6 | 15.5 | -25% | -7% |
| 9 | July | 6.5 | 6.8 | 4% | 2% | 13.6 | 13.3 | -2% | -1% | 19.9 | 15.0 | -24% | -11% | 14.4 | 14.7 | 2% | 1% | 3.7 | 0.9 | -76% | -20% | 6.6 | 2.6 | -61% | -18% |
| 9 | August | 5.5 | 5.7 | 4% | 4% | 11.4 | 11.8 | 3% | 3% | 17.0 | 13.2 | -23% | -23% | 12.4 | 12.9 | 4% | 4% | 3.4 | 0.7 | -79% | -79% | 5.6 | 2.2 | -60% | -60% |
| 9 | September | 4.7 | 4.9 | 5% | 5% | 9.7 | 10.3 | 6% | 6% | 14.7 | 11.5 | -22% | -22% | 11.0 | 11.4 | 4% | 4% | 3.0 | 0.4 | -86% | -86% | 4.9 | 1.8 | -63% | -63% |
| 9 | October | 7.2 | 7.4 | 3% | 3% | 14.9 | 14.4 | -3% | -3% | 21.1 | 16.6 | -21% | -21% | 16.7 | 17.2 | 3% | 3% | 3.5 | 1.2 | -65% | -65% | 7.0 | 2.9 | -60% | -60% |
| 9 | November | 4.7 | 4.9 | 5% | 5% | 9.7 | 10.2 | 4% | 4% | 14.5 | 11.3 | -23% | -23% | 10.8 | 11.1 | 4% | 4% | 2.9 | 0.2 | -93% | -93% | 4.9 | 1.7 | -66% | -66% |
| 9 | December | 4.1 | 4.4 | 5% | 5% | 8.8 | 9.5 | 9% | 9% | 13.3 | 10.4 | -22% | -22% | 9.8 | 10.1 | 4% | 4% | 2.6 | 0.1 | -96% | -96% | 4.4 | 1.5 | -67% | -67% |
| 10 | January | 3.6 | 3.8 | 6% | 6% | 7.8 | 8.1 | 3% | 3% | 12.0 | 9.0 | -25% | -25% | 8.8 | 9.1 | 4% | 4% | 2.5 | 0.1 | -96% | -96% | 4.0 | 1.1 | -72% | -72% |
| 10 | February | 3.9 | 4.1 | 4% | 4% | 8.3 | 8.2 | -1% | -1% | 12.3 | 9.5 | -23% | -23% | 9.5 | 9.8 | 3% | 3% | 2.6 | 0.3 | -88% | -88% | 4.5 | 1.4 | -69% | -69% |
| 10 | March | 11.3 | 11.5 | 2% | 2% | 24.7 | 22.4 | -9% | -9% | 31.4 | 26.3 | -16% | -16% | 23.4 | 23.8 | 1% | 1% | 5.6 | 4.4 | -21% | -21% | 12.2 | 6.9 | -43% | -43% |
| 10 | April | 19.0 | 19.2 | 1% | 1% | 40.9 | 38.6 | -5% | -5% | 48.4 | 43.9 | -9% | -9% | 33.8 | 33.9 | 0% | 0% | 12.1 | 10.7 | -11% | -11% | 21.0 | 15.7 | -25% | -25% |
| 10 | May | 35.4 | 35.6 | 1% | 0% | 76.3 | 73.9 | -3% | -3% | 92.8 | 88.2 | -5% | -4% | 64.1 | 62.7 | -2% | -2% | 23.4 | 23.5 | 1% | 0% | 38.4 | 33.0 | -14% | -10% |
| 10 | June | 6.4 | 6.6 | 3% | 0% | 13.4 | 12.3 | -9% | -1% | 19.1 | 14.5 | -24% | -3% | 13.7 | 13.8 | 1% | 0% | 4.0 | 1.0 | -75% | -6% | 6.8 | 2.6 | -62% | -6% |
| 10 | July | 5.6 | 5.8 | 3% | 1% | 11.6 | 11.1 | -5% | -1% | 17.0 | 13.1 | -23% | -9% | 12.3 | 12.6 | 3% | 1% | 3.5 | 0.7 | -80% | -20% | 5.7 | 2.2 | -62% | -16% |
| 10 | August | 4.8 | 5.0 | 4% | 4% | 10.1 | 9.9 | -2% | -2% | 15.1 | 11.6 | -23% | -23% | 11.3 | 11.6 | 3% | 3% | 3.0 | 0.4 | -87% | -87% | 4.9 | 1.8 | -65% | -65% |
| 10 | September | 5.1 | 5.3 | 4% | 4% | 10.7 | 10.2 | -4% | -4% | 15.8 | 12.1 | -23% | -23% | 12.3 | 12.6 | 3% | 3% | 3.2 | 0.5 | -84% | -84% | 5.3 | 1.9 | -65% | -65% |
| 10 | October | 4.6 | 4.8 | 4% | 4% | 9.6 | 9.2 | -4% | -4% | 14.3 | 10.8 | -24% | -24% | 10.8 | 11.1 | 3% | 3% | 2.7 | 0.1 | -96% | -96% | 4.7 | 1.4 | -71% | -71% |
| 10 | November | 3.8 | 4.0 | 5% | 5% | 8.1 | 8.0 | -1% | -1% | 12.3 | 9.4 | -24% | -24% | 9.1 | 9.4 | 3% | 3% | 2.5 | 0.1 | -96% | -96% | 4.2 | 1.2 | -72% | -72% |
| 10 | December | 3.5 | 3.7 | 5% | 5% | 7.6 | 7.6 | 1% | 1% | 11.5 | 8.8 | -24% | -24% | 8.5 | 8.8 | 4% | 4% | 2.3 | 0.0 | -100% | -100% | 3.9 | 1.0 | -75% | -75% |
| 11 | January | 3.2 | 3.4 | 6% | 6% | 7.0 | 7.2 | 2% | 2% | 10.6 | 8.3 | -22% | -22% | 7.7 | 8.0 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 0.8 | -78% | -78% |
| 11 | February | 2.7 | 2.9 | 7% | 7% | 6.1 | 6.4 | 5% | 5% | 9.2 | 7.4 | -20% | -20% | 6.5 | 6.8 | 4% | 4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 0.7 | -79% | -79% |
| 11 | March | 3.9 | 4.1 | 5% | 5% | 8.4 | 8.4 | 0% | 0% | 12.1 | 9.9 | -19% | -19% | 9.2 | 9.4 | 2% | 2% | 2.2 | 0.4 | -82% | -82% | 4.1 | 1.1 | -73% | -73% |
| 11 | April | 58.8 | 59.0 | 0% | 0% | 130.2 | 127.4 | -2% | -2% | 153.9 | 151.6 | -1% | -1% | 107.0 | 103.9 | -3% | -3% | 41.2 | 45.9 | 12% | 12% | 68.8 | 63.0 | -8% | -8% |
| 11 | May | 48.3 | 48.5 | 0% | 0% | 102.9 | 100.6 | -2% | -2% | 127.1 | 123.8 | -3% | -3% | 93.6 | 92.3 | -1% | -1% | 30.6 | 32.4 | 6% | 5% | 51.3 | 46.0 | -10% | -10% |
| 11 | June | 16.6 | 16.8 | 1% | 0% | 34.0 | 31.9 | -6% | -2% | 44.2 | 38.8 | -12% | -4% | 33.0 | 34.1 | 3% | 1% | 9.2 | 7.1 | -23% | -4% | 16.7 | 11.5 | -31% | -7% |
| 11 | July | 6.6 | 6.8 | 3% | 1% | 13.6 | 12.6 | -8% | -3% | 20.1 | 15.3 | -24% | -11% | 14.3 | 15.3 | 7% | 3% | 3.7 | 0.9 | -76% | -20% | 6.5 | 2.5 | -62% | -18% |
| 11 | August | 5.6 | 5.8 | 4% | 4% | 11.5 | 11.1 | -4% | -4% | 17.3 | 13.4 | -22% | -22% | 12.4 | 13.1 | 6% | 6% | 3.4 | 0.6 | -82% | -82% | 5.5 | 2.1 | -63% | -63% |
| 11 | September | 4.8 | 5.0 | 4% | 4% | 9.8 | 9.6 | -2% | -2% | 15.0 | 11.7 | -22% | -22% | 10.9 | 11.5 | 6% | 6% | 3.0 | 0.4 | -86% | -86% | 4.8 | 1.7 | -65% | -65% |
| 11 | October | 17.2 | 17.4 | 1% | 1% | 37.3 | 34.9 | -6% | -6% | 46.0 | 41.0 | -11% | -11% | 34.7 | 35.2 | 2% | 2% | 9.8 | 8.5 | -13% | -13% | 18.5 | 13.1 | -29% | -29% |
| 11 | November | 6.0 | 6.1 | 3% | 3% | 12.3 | 11.4 | -7% | -7% | 18.1 | 13.9 | -23% | -23% | 12.9 | 13.2 | 3% | 3% | 3.6 | 0.7 | -81% | -81% | 6.1 | 2.2 | -65% | -65% |
| 11 | December | 5.2 | 5.4 | 4% | 4% | 10.8 | 10.5 | -3% | -3% | 16.2 | 12.6 | -22% | -22% | 11.5 | 12.0 | 4% | 4% | 3.2 | 0.5 | -84% | -84% | 5.3 | 1.9 | -63% | -63% |
| 12 | January | 4.5 | 4.8 | 6% | 6% | 9.4 | 10.9 | 15% | 15% | 14.4 | 12.8 | -12% | -12% | 10.4 | 10.8 | 5% | 5% | 2.9 | 0.2 | -93% | -93% | 4.6 | 1.7 | -63% | -63% |
| 12 | February | 3.6 | 3.8 | 6% | 6% | 7.6 | 9.3 | 21% | 21% | 11.8 | 10.8 | -9% | -9% | 8.4 | 8.9 | 6% | 6% | 2.6 | 0.2 | -92% | -92% | 4.2 | 1.5 | -65% | -65% |
| 12 | March | 18.5 | 18.7 | 1% | 1% | 40.3 | 39.7 | -2% | -2% | 48.9 | 45.9 | -6% | -6% | 35.3 | 35.8 | 1% | 1% | 10.8 | 10.2 | -6% | -6% | 20.1 | 14.9 | -26% | -26% |
| 12 | April | 38.1 | 38.3 | 1% | 1% | 82.3 | 81.8 | -1% | -1% | 100.4 | 98.1 | -2% | -2% | 69.2 | 68.0 | -2% | -2% | 26.1 | 26.9 | 3% | 3% | 42.8 | 37.7 | -12% | -12% |
| 12 | May | 92.4 | 92.6 | 0% | 0% | 199.5 | 198.9 | 0% | 0% | 248.5 | 248.9 | 0% | 0% | 182.4 | 181.1 | -1% | -1% | 61.8 | 68.0 | 10% | 10% | 101.0 | 95.9 | -5% | -5% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | June | 65.8 | 66.0 | 0% | 0% | 139.7 | 139.1 | 0% | 0% | 176.6 | 175.8 | 0% | 0% | 130.0 | 130.9 | 1% | 1% | 43.7 | 46.8 | 7% | 6% | 72.0 | 66.8 | -7% | -7% |
| 12 | July | 7.5 | 7.8 | 4% | 2% | 15.3 | 15.7 | 3% | 1% | 22.9 | 19.0 | -17% | -9% | 16.0 | 17.3 | 8% | 4% | 4.1 | 1.1 | -73% | -21% | 7.2 | 3.1 | -57% | -19% |
| 12 | August | 6.2 | 6.5 | 4% | 4% | 12.7 | 13.8 | 9% | 9% | 19.0 | 16.4 | -13% | -13% | 13.3 | 14.4 | 9% | 9% | 3.6 | 0.8 | -78% | -78% | 6.1 | 2.6 | -58% | -58% |
| 12 | September | 12.7 | 13.0 | 2% | 2% | 26.6 | 26.5 | 0% | 0% | 34.9 | 31.6 | -9% | -9% | 27.4 | 28.4 | 4% | 4% | 6.3 | 4.4 | -30% | -30% | 13.1 | 8.4 | -36% | -36% |
| 12 | October | 11.6 | 11.9 | 2% | 2% | 24.0 | 24.0 | 0% | 0% | 31.7 | 28.3 | -11% | -11% | 23.4 | 24.4 | 4% | 4% | 6.1 | 3.7 | -39% | -39% | 11.4 | 6.8 | -40% | -40% |
| 12 | November | 6.0 | 6.3 | 4% | 4% | 12.6 | 13.7 | 8% | 8% | 18.3 | 16.2 | -12% | -12% | 12.5 | 13.5 | 8% | 8% | 3.9 | 1.0 | -74% | -74% | 6.4 | 2.9 | -55% | -55% |
| 12 | December | 5.3 | 5.6 | 5% | 5% | 11.2 | 12.7 | 14% | 14% | 16.6 | 14.9 | -10% | -10% | 11.3 | 12.2 | 8% | 8% | 3.5 | 0.7 | -80% | -80% | 5.5 | 2.4 | -56% | -56% |
| 13 | January | 4.7 | 4.8 | 2% | 2% | 9.9 | 6.3 | -36% | -36% | 15.0 | 4.1 | -72% | -72% | 11.1 | 5.4 | -52% | -52% | 3.1 | 0.4 | -87% | -87% | 4.9 | 0.8 | -84% | -84% |
| 13 | February | 3.8 | 3.8 | 0% | 0% | 8.0 | 4.2 | -48% | -48% | 12.3 | 5.7 | -54% | -54% | 9.2 | 6.8 | -26% | -26% | 2.8 | 0.2 | -93% | -93% | 4.4 | 0.3 | -94% | -94% |
| 13 | March | 4.0 | 4.0 | -1% | -1% | 8.5 | 4.3 | -50% | -50% | 13.1 | 6.5 | -50% | -50% | 9.8 | 7.8 | -20% | -20% | 2.6 | 0.1 | -96% | -96% | 4.2 | 0.1 | -97% | -97% |
| 13 | April | 11.1 | 11.0 | -1% | -1% | 24.2 | 18.5 | -24% | -24% | 31.5 | 24.9 | -21% | -21% | 24.1 | 27.4 | 13% | 13% | 5.7 | 1.9 | -67% | -57% | 12.7 | 7.4 | -41% | -41% |
| 13 | May | 31.4 | 31.3 | 0% | 0% | 67.9 | 61.6 | -9% | -8% | 82.3 | 76.7 | -7% | -5% | 54.8 | 55.9 | 2% | 2% | 20.6 | 15.3 | -26% | -14% | 34.9 | 28.6 | -18% | -12% |
| 13 | June | 49.7 | 49.7 | 0% | 0% | 107.6 | 101.5 | -6% | -5% | 133.8 | 128.0 | -4% | -4% | 94.9 | 93.9 | -1% | -1% | 34.4 | 27.3 | -21% | -14% | 57.5 | 50.6 | -12% | -10% |
| 13 | July | 6.8 | 7.0 | 2% | 1% | 14.2 | 8.8 | -38% | -14% | 21.0 | 13.2 | -37% | -18% | 15.3 | 13.1 | -14% | -7% | 4.0 | 1.0 | -75% | -22% | 6.9 | 2.0 | -71% | -22% |
| 13 | August | 5.8 | 5.8 | 1% | 1% | 12.0 | 6.8 | -43% | -43% | 17.9 | 10.7 | -40% | -40% | 13.2 | 11.1 | -16% | -16% | 3.6 | 0.7 | -80% | -80% | 5.8 | 1.2 | -80% | -80% |
| 13 | September | 5.1 | 5.1 | 0% | 0% | 10.5 | 5.6 | -47% | -47% | 15.8 | 9.2 | -42% | -42% | 12.1 | 10.2 | -16% | -16% | 3.2 | 0.4 | -88% | -88% | 5.2 | 0.6 | -88% | -88% |
| 13 | October | 9.7 | 9.7 | 0% | 0% | 20.6 | 15.0 | -27% | -27% | 27.9 | 21.4 | -23% | -23% | 22.9 | 24.3 | 6% | 6% | 4.4 | 0.8 | -82% | -82% | 10.1 | 5.0 | -51% | -51% |
| 13 | November | 5.3 | 5.3 | 0% | 0% | 11.0 | 5.8 | -47% | -47% | 16.0 | 9.4 | -41% | -41% | 12.1 | 10.3 | -15% | -15% | 3.3 | 0.5 | -85% | -85% | 5.5 | 0.7 | -87% | -87% |
| 13 | December | 4.8 | 4.8 | 0% | 0% | 10.0 | 5.1 | -49% | -49% | 14.7 | 8.5 | -42% | -42% | 11.0 | 9.2 | -16% | -16% | 3.2 | 0.4 | -87% | -87% | 5.0 | 0.4 | -91% | -91% |
| 14 | January | 4.2 | 4.2 | -1% | -1% | 8.9 | 4.4 | -51% | -51% | 13.2 | 7.6 | -42% | -42% | 10.0 | 8.4 | -16% | -16% | 2.8 | 0.2 | -93% | -93% | 4.4 | 0.2 | -95% | -95% |
| 14 | February | 3.4 | 3.4 | 0% | 0% | 7.2 | 3.5 | -52% | -52% | 10.8 | 6.2 | -42% | -42% | 8.2 | 7.0 | -15% | -15% | 2.5 | 0.1 | -96% | -96% | 4.1 | 0.1 | -98% | -98% |
| 14 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 3.4 | -54% | -54% | 11.0 | 6.3 | -42% | -42% | 8.3 | 7.1 | -14% | -14% | 2.3 | 0.0 | -100% | -100% | 3.8 | 0.0 | -99% | -99% |
| 14 | April | 21.5 | 21.3 | -1% | -1% | 47.2 | 40.8 | -14% | -14% | 56.2 | 52.0 | -8% | -8% | 39.6 | 44.9 | 13% | 13% | 13.5 | 8.7 | -36% | -36% | 25.2 | 19.3 | -23% | -23% |
| 14 | May | 34.0 | 34.1 | 0% | 0% | 73.2 | 67.0 | -9% | -8% | 89.6 | 85.1 | -5% | -4% | 60.2 | 61.0 | 1% | 1% | 22.1 | 16.7 | -24% | -14% | 37.5 | 31.1 | -17% | -12% |
| 14 | June | 8.9 | 9.0 | 1% | 0% | 18.5 | 12.9 | -30% | -5% | 25.1 | 18.6 | -26% | -5% | 19.5 | 18.9 | -3% | -1% | 4.6 | 1.3 | -71% | -7% | 9.2 | 3.9 | -58% | -7% |
| 14 | July | 6.0 | 6.0 | 0% | 0% | 12.5 | 7.1 | -43% | -14% | 18.0 | 11.3 | -37% | -16% | 13.4 | 11.5 | -15% | -7% | 3.7 | 0.9 | -76% | -20% | 6.1 | 1.3 | -78% | -22% |
| 14 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 5.6 | -48% | -48% | 15.6 | 9.4 | -40% | -40% | 11.7 | 10.0 | -15% | -15% | 3.3 | 0.5 | -85% | -85% | 5.2 | 0.7 | -87% | -87% |
| 14 | September | 4.3 | 4.4 | 1% | 1% | 9.1 | 4.6 | -49% | -49% | 13.5 | 8.1 | -40% | -40% | 10.4 | 8.8 | -15% | -15% | 2.9 | 0.3 | -90% | -90% | 4.7 | 0.4 | -92% | -92% |
| 14 | October | 7.3 | 7.3 | 0% | 0% | 15.4 | 9.9 | -35% | -35% | 21.1 | 15.5 | -27% | -27% | 17.2 | 18.2 | 6% | 6% | 3.4 | 0.2 | -94% | -94% | 7.5 | 2.7 | -64% | -64% |
| 14 | November | 4.5 | 4.5 | 0% | 0% | 9.5 | 4.8 | -49% | -49% | 13.7 | 8.2 | -40% | -40% | 10.5 | 9.0 | -14% | -14% | 2.9 | 0.3 | -90% | -90% | 4.9 | 0.4 | -92% | -92% |
| 14 | December | 4.0 | 4.0 | 0% | 0% | 8.6 | 4.2 | -52% | -52% | 12.5 | 7.4 | -41% | -41% | 9.5 | 8.2 | -14% | -14% | 2.7 | 0.2 | -93% | -93% | 4.4 | 0.2 | -95% | -95% |
| 15 | January | 3.5 | 3.5 | -1% | -1% | 7.8 | 3.6 | -53% | -53% | 11.3 | 6.7 | -41% | -41% | 8.6 | 7.5 | -13% | -13% | 2.5 | 0.1 | -96% | -96% | 4.0 | 0.1 | -97% | -97% |
| 15 | February | 3.0 | 3.0 | 0% | 0% | 6.7 | 3.1 | -54% | -54% | 9.8 | 5.7 | -41% | -41% | 7.3 | 6.5 | -12% | -12% | 2.3 | 0.0 | -100% | -100% | 3.7 | 0.1 | -99% | -99% |
| 15 | March | 3.0 | 2.9 | -1% | -1% | 6.6 | 3.0 | -55% | -55% | 9.6 | 5.7 | -41% | -41% | 7.1 | 6.3 | -10% | -10% | 2.1 | 0.0 | -100% | -100% | 3.5 | 0.0 | -99% | -99% |
| 15 | April | 6.7 | 6.7 | 0% | 0% | 14.3 | 8.9 | -38% | -27% | 19.2 | 14.5 | -25% | -20% | 15.9 | 19.1 | 20% | 20% | 3.0 | 0.0 | -100% | -44% | 7.2 | 2.8 | -61% | -40% |
| 15 | May | 29.6 | 29.5 | 0% | 0% | 64.9 | 59.1 | -9% | -7% | 75.9 | 73.2 | -4% | -2% | 49.8 | 53.8 | 8% | 6% | 19.1 | 13.9 | -27% | -14% | 33.6 | 27.8 | -17% | -11% |
| 15 | June | 42.2 | 42.2 | 0% | 0% | 91.3 | 85.8 | -6% | -5% | 111.6 | 108.2 | -3% | -2% | 76.9 | 77.0 | 0% | 0% | 29.0 | 22.7 | -22% | -13% | 48.7 | 42.5 | -13% | -9% |
| 15 | July | 6.4 | 6.5 | 2% | 1% | 13.2 | 8.6 | -35% | -12% | 19.0 | 13.1 | -31% | -14% | 14.0 | 12.2 | -13% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 2.1 | -67% | -19% |
| 15 | August | 5.4 | 5.4 | 0% | 0% | 11.1 | 6.8 | -39% | -39% | 16.4 | 10.8 | -34% | -34% | 12.4 | 10.6 | -15% | -15% | 3.3 | 0.6 | -82% | -82% | 5.4 | 1.5 | -72% | -72% |
| 15 | September | 7.7 | 7.7 | 0% | 0% | 16.1 | 11.9 | -26% | -26% | 22.2 | 17.4 | -22% | -22% | 18.1 | 18.5 | 2% | 2% | 3.7 | 0.5 | -87% | -87% | 8.0 | 4.0 | -50% | -50% |
| 15 | October | 18.4 | 18.4 | 0% | 0% | 39.4 | 34.3 | -13% | -13% | 48.2 | 43.6 | -10% | -10% | 35.7 | 37.1 | 4% | 4% | 10.8 | 6.5 | -40% | -40% | 19.8 | 14.9 | -25% | -25% |
| 15 | November | 5.8 | 5.8 | 0% | 0% | 12.2 | 8.0 | -35% | -35% | 17.6 | 12.2 | -31% | -31% | 12.9 | 11.1 | -14% | -14% | 3.8 | 0.9 | -76% | -76% | 6.2 | 2.3 | -63% | -63% |
| 15 | December | 5.1 | 5.1 | 0% | 0% | 10.6 | 6.7 | -38% | -38% | 15.6 | 10.6 | -32% | -32% | 11.6 | 10.0 | -14% | -14% | 3.4 | 0.7 | -79% | -79% | 5.3 | 1.7 | -68% | -68% |
| 16 | January | 4.4 | 4.4 | 0% | 0% | 9.4 | 5.5 | -41% | -41% | 13.9 | 9.2 | -34% | -34% | 10.5 | 9.0 | -15% | -15% | 3.0 | 0.4 | -87% | -87% | 4.7 | 1.2 | -74% | -74% |
| 16 | February | 3.5 | 3.5 | -1% | -1% | 7.5 | 4.1 | -45% | -45% | 11.3 | 7.2 | -36% | -36% | 8.7 | 7.5 | -14% | -14% | 2.6 | 0.1 | -96% | -96% | 4.2 | 0.9 | -80% | -80% |
| 16 | March | 3.5 | 3.5 | 0% | 0% | 7.5 | 3.9 | -48% | -48% | 11.4 | 7.1 | -37% | -37% | 8.7 | 7.6 | -13% | -13% | 2.4 | 0.0 | -100% | -100% | 3.9 | 0.7 | -83% | -83% |
| 16 | April | 7.3 | 7.3 | 0% | 0% | 15.5 | 12.5 | -19% | -15% | 21.0 | 18.4 | -12% | -11% | 17.5 | 20.1 | 15% | 15% | 3.2 | 0.0 | -100% | -48% | 7.8 | 4.8 | -38% | -27% |
| 16 | May | 81.7 | 81.6 | 0% | 0% | 179.7 | 175.2 | -3% | -3% | 217.5 | 218.8 | 1% | 1% | 149.8 | 151.9 | 1% | 1% | 56.5 | 46.5 | -18% | -18% | 94.3 | 88.0 | -7% | -7% |
| 16 | June | 68.5 | 68.5 | 0% | 0% | 146.0 | 141.7 | -3% | -3% | 183.2 | 178.9 | -2% | -2% | 133.9 | 131.8 | -2% | -2% | 45.9 | 37.5 | -18% | -17% | 77.1 | 71.2 | -8% | -8% |
| 16 | July | 7.0 | 7.2 | 2% | 1% | 14.1 | 10.7 | -24% | -9% | 21.1 | 16.0 | -24% | -12% | 16.0 | 13.6 | -14% | -8% | 3.8 | 0.9 | -76% | -21% | 6.6 | 3.4 | -49% | -15% |
| 16 | August | 5.8 | 5.9 | 0% | 0% | 11.8 | 8.7 | -27% | -27% | 17.8 | 13.0 | -27% | -27% | 13.4 | 11.5 | -14% | -14% | 3.4 | 0.7 | -79% | -79% | 5.6 | 2.7 | -52% | -52% |
| 16 | September | 6.1 | 6.2 | 1% | 1% | 12.5 | 9.5 | -24% | -24% | 18.3 | 14.1 | -23% | -23% | 14.7 | 13.7 | -6% | -6% | 3.4 | 0.4 | -88% | -88% | 6.1 | 3.2 | -48% | -48% |
| 16 | October | 5.4 | 5.3 | -1% | -1% | 10.8 | 7.5 | -30% | -30% | 16.2 | 11.6 | -28% | -28% | 12.6 | 11.0 | -13% | -13% | 3.0 | 0.3 | -90% | -90% | 5.0 | 2.1 | -58% | -58% |
| 16 | November | 4.9 | 4.9 | 0% | 0% | 9.8 | 6.8 | -31% | -31% | 14.9 | 10.7 | -28% | -28% | 11.6 | 10.4 | -10% | -10% | 2.9 | 0.2 | -93% | -93% | 4.8 | 1.9 | -60% | -60% |
| 16 | December | 4.4 | 4.4 | -1% | -1% | 9.0 | 6.0 | -33% | -33% | 13.7 | 9.6 | -30% | -30% | 10.5 | 9.4 | -11% | -11% | 2.6 | 0.1 | -96% | -96% | 4.3 | 1.6 | -63% | -63% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | January | 3.9 | 3.8 | -1% | -1% | 8.1 | 5.2 | -35% | -35% | 12.4 | 8.6 | -30% | -30% | 9.4 | 8.5 | -10% | -10% | 2.4 | 0.0 | -100% | -100% | 4.0 | 1.4 | -65% | -65% |
| 17 | February | 3.1 | 3.1 | 0% | 0% | 6.7 | 4.2 | -36% | -36% | 10.2 | 7.1 | -30% | -30% | 7.7 | 7.0 | -9% | -9% | 2.2 | 0.0 | -100% | -100% | 3.7 | 1.3 | -66% | -66% |
| 17 | March | 3.1 | 3.1 | 0% | 0% | 6.8 | 4.2 | -38% | -38% | 10.4 | 7.2 | -31% | -31% | 7.8 | 7.1 | -8% | -8% | 2.1 | 0.0 | -100% | -100% | 3.5 | 1.1 | -68% | -68% |
| 17 | April | 5.4 | 5.4 | 0% | 0% | 11.4 | 9.6 | -16% | -9% | 16.1 | 14.5 | -10% | -7% | 13.4 | 15.6 | 17% | 14% | 2.7 | 0.0 | -100% | -40% | 5.7 | 3.9 | -32% | -16% |
| 17 | May | 47.4 | 47.3 | 0% | 0% | 104.5 | 101.2 | -3% | -3% | 124.8 | 125.9 | 1% | 1% | 83.5 | 88.2 | 6% | 6% | 31.3 | 24.3 | -22% | -19% | 54.6 | 50.2 | -8% | -8% |
| 17 | June | 57.4 | 57.5 | 0% | 0% | 123.5 | 120.3 | -3% | -3% | 152.9 | 151.5 | -1% | -1% | 110.7 | 110.5 | 0% | 0% | 38.9 | 31.4 | -19% | -15% | 65.8 | 61.0 | -7% | -7% |
| 17 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 11.1 | -18% | -6% | 20.2 | 16.1 | -20% | -9% | 14.9 | 13.2 | -12% | -6% | 3.6 | 0.8 | -78% | -20% | 6.3 | 3.9 | -38% | -11% |
| 17 | August | 5.7 | 5.7 | 1% | 1% | 11.5 | 9.3 | -19% | -19% | 17.2 | 13.5 | -22% | -22% | 13.1 | 11.4 | -13% | -13% | 3.3 | 0.6 | -82% | -82% | 5.4 | 3.3 | -39% | -39% |
| 17 | September | 4.8 | 4.8 | -1% | -1% | 9.7 | 7.6 | -22% | -22% | 14.8 | 11.3 | -24% | -24% | 11.5 | 9.9 | -13% | -13% | 2.9 | 0.3 | -90% | -90% | 4.7 | 2.7 | -42% | -42% |
| 17 | October | 4.4 | 4.4 | 0% | 0% | 8.9 | 6.9 | -23% | -23% | 13.8 | 10.5 | -24% | -24% | 10.8 | 9.4 | -13% | -13% | 2.6 | 0.1 | -96% | -96% | 4.3 | 2.3 | -46% | -46% |
| 17 | November | 3.9 | 3.8 | -1% | -1% | 7.9 | 5.9 | -25% | -25% | 12.2 | 9.1 | -25% | -25% | 9.5 | 8.4 | -12% | -12% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.0 | -49% | -49% |
| 17 | December | 3.6 | 3.5 | -1% | -1% | 7.4 | 5.5 | -26% | -26% | 11.5 | 8.6 | -25% | -25% | 8.8 | 7.9 | -10% | -10% | 2.2 | 0.0 | -100% | -100% | 3.6 | 1.8 | -50% | -50% |
| 18 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 4.9 | -27% | -27% | 10.5 | 7.8 | -25% | -25% | 8.0 | 7.3 | -9% | -9% | 2.0 | 0.0 | -100% | -100% | 3.4 | 1.7 | -51% | -51% |
| 18 | February | 2.6 | 2.5 | -1% | -1% | 5.6 | 4.1 | -26% | -26% | 8.7 | 6.6 | -24% | -24% | 6.6 | 6.1 | -8% | -8% | 1.9 | 0.0 | -100% | -100% | 3.2 | 1.6 | -50% | -50% |
| 18 | March | 2.6 | 2.6 | 0% | 0% | 5.8 | 4.3 | -26% | -26% | 8.9 | 6.9 | -22% | -22% | 6.6 | 6.1 | -7% | -7% | 1.7 | 0.0 | -100% | -100% | 3.0 | 1.6 | -46% | -46% |
| 18 | April | 15.1 | 15.0 | -1% | -1% | 33.6 | 32.4 | -4% | -4% | 41.3 | 41.7 | 1% | 1% | 30.3 | 37.0 | 22% | 22% | 8.3 | 4.5 | -46% | -46% | 17.8 | 16.2 | -9% | -9% |
| 18 | May | 47.8 | 47.9 | 0% | 0% | 104.1 | 101.5 | -2% | -2% | 124.9 | 126.3 | 1% | 1% | 84.3 | 86.0 | 2% | 2% | 31.8 | 25.4 | -20% | -17% | 53.9 | 50.1 | -7% | -7% |
| 18 | June | 52.8 | 52.9 | 0% | 0% | 113.5 | 111.0 | -2% | -2% | 140.9 | 139.7 | -1% | -1% | 102.9 | 102.4 | -1% | -1% | 35.6 | 28.6 | -20% | -14% | 60.3 | 56.3 | -7% | -6% |
| 18 | July | 6.5 | 6.6 | 2% | 1% | 13.3 | 11.5 | -13% | -4% | 19.8 | 16.4 | -17% | -8% | 14.7 | 12.9 | -12% | -6% | 3.6 | 0.8 | -77% | -20% | 6.2 | 4.4 | -29% | -8% |
| 18 | August | 5.6 | 5.5 | -1% | -1% | 11.2 | 9.6 | -14% | -14% | 16.9 | 13.8 | -18% | -18% | 12.8 | 11.1 | -13% | -13% | 3.2 | 0.6 | -81% | -81% | 5.2 | 3.8 | -28% | -28% |
| 18 | September | 4.7 | 4.7 | 0% | 0% | 9.4 | 8.0 | -15% | -15% | 14.4 | 11.7 | -19% | -19% | 11.2 | 9.7 | -14% | -14% | 2.8 | 0.3 | -89% | -89% | 4.6 | 3.2 | -31% | -31% |
| 18 | October | 8.2 | 8.2 | 0% | 0% | 17.1 | 15.6 | -9% | -9% | 23.8 | 21.7 | -9% | -9% | 19.8 | 21.2 | 7% | 7% | 3.5 | 0.2 | -94% | -94% | 8.1 | 6.5 | -20% | -20% |
| 18 | November | 5.1 | 5.0 | -2% | -2% | 10.3 | 8.6 | -17% | -17% | 15.2 | 12.3 | -19% | -19% | 11.7 | 10.3 | -12% | -12% | 3.0 | 0.4 | -86% | -86% | 5.0 | 3.3 | -33% | -33% |
| 18 | December | 4.4 | 4.4 | 0% | 0% | 9.2 | 7.8 | -16% | -16% | 13.7 | 11.3 | -18% | -18% | 10.5 | 9.2 | -12% | -12% | 2.8 | 0.3 | -89% | -89% | 4.5 | 3.0 | -33% | -33% |
| 19 | January | 3.9 | 3.9 | -1% | -1% | 8.2 | 6.8 | -17% | -17% | 12.3 | 10.1 | -18% | -18% | 9.3 | 8.3 | -11% | -11% | 2.5 | 0.1 | -96% | -96% | 4.1 | 2.7 | -33% | -33% |
| 19 | February | 3.2 | 3.2 | -1% | -1% | 6.9 | 5.7 | -17% | -17% | 10.4 | 8.6 | -18% | -18% | 8.0 | 7.2 | -10% | -10% | 2.3 | 0.0 | -100% | -100% | 3.8 | 2.5 | -34% | -34% |
| 19 | March | 3.1 | 3.1 | 0% | 0% | 6.7 | 5.6 | -17% | -17% | 10.2 | 8.5 | -17% | -17% | 7.7 | 7.0 | -8% | -8% | 2.1 | 0.0 | -100% | -100% | 3.5 | 2.3 | -33% | -33% |
| 19 | April | 5.7 | 5.7 | 0% | 0% | 11.9 | 11.6 | -3% | -2% | 16.6 | 16.6 | 0% | 0% | 14.0 | 16.3 | 17% | 15% | 2.8 | 0.1 | -96% | -40% | 5.9 | 5.3 | -10% | -5% |
| 19 | May | 11.7 | 11.6 | 0% | 0% | 25.8 | 24.1 | -7% | -2% | 32.2 | 31.2 | -3% | -1% | 23.0 | 26.9 | 17% | 6% | 6.1 | 2.5 | -59% | -10% | 13.2 | 11.2 | -15% | -4% |
| 19 | June | 5.2 | 5.2 | 0% | 0% | 10.8 | 9.3 | -14% | -1% | 14.8 | 12.8 | -13% | -1% | 11.1 | 10.3 | -7% | -1% | 3.1 | 0.4 | -87% | -6% | 5.4 | 3.8 | -30% | -2% |
| 19 | July | 4.7 | 4.7 | 0% | 0% | 9.9 | 8.6 | -13% | -3% | 13.5 | 11.8 | -13% | -4% | 10.1 | 9.0 | -10% | -4% | 3.0 | 0.4 | -87% | -19% | 4.9 | 3.5 | -28% | -6% |
| 19 | August | 4.0 | 4.1 | 0% | 0% | 8.7 | 7.5 | -13% | -13% | 12.1 | 10.5 | -13% | -13% | 9.1 | 8.0 | -11% | -11% | 2.8 | 0.2 | -93% | -93% | 4.4 | 3.2 | -27% | -27% |
| 19 | September | 3.5 | 3.5 | 0% | 0% | 7.5 | 6.6 | -13% | -13% | 10.6 | 9.3 | -13% | -13% | 7.8 | 7.1 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.0 | 2.9 | -27% | -27% |
| 19 | October | 9.5 | 9.5 | 0% | 0% | 20.6 | 20.2 | -2% | -2% | 26.4 | 26.7 | 1% | 1% | 20.1 | 23.9 | 19% | 19% | 4.7 | 1.1 | -76% | -76% | 10.3 | 9.5 | -8% | -8% |
| 19 | November | 4.4 | 4.4 | 0% | 0% | 9.3 | 6.4 | -31% | -31% | 12.8 | 9.4 | -26% | -26% | 9.3 | 8.4 | -10% | -10% | 2.8 | 0.3 | -89% | -89% | 4.8 | 1.7 | -65% | -65% |
| 19 | December | 3.9 | 4.0 | 1% | 1% | 8.6 | 10.3 | 20% | 20% | 11.8 | 13.1 | 11% | 11% | 8.5 | 7.6 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.4 | 6.1 | 38% | 38% |
| 20 | January | 3.6 | 3.6 | 1% | 1% | 7.8 | 8.5 | 9% | 9% | 10.8 | 11.2 | 3% | 3% | 7.7 | 7.0 | -10% | -10% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.6 | 16% | 16% |
| 20 | February | 2.9 | 2.9 | 1% | 1% | 6.4 | 7.1 | 11% | 11% | 9.0 | 9.4 | 5% | 5% | 6.4 | 5.9 | -8% | -8% | 2.2 | 0.1 | -96% | -96% | 3.7 | 4.4 | 21% | 21% |
| 20 | March | 2.9 | 2.9 | 0% | 0% | 6.5 | 6.8 | 4% | 4% | 9.2 | 9.2 | 0% | 0% | 6.4 | 6.0 | -7% | -7% | 2.1 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 20 | April | 39.5 | 39.5 | 0% | 0% | 87.5 | 87.6 | 0% | 0% | 103.1 | 108.0 | 5% | 5% | 67.2 | 73.5 | 9% | 9% | 27.4 | 20.8 | -24% | -24% | 47.3 | 46.1 | -2% | -2% |
| 20 | May | 80.4 | 80.4 | 0% | 0% | 173.9 | 175.2 | 1% | 1% | 213.5 | 218.2 | 2% | 2% | 152.2 | 151.8 | 0% | 0% | 53.6 | 44.3 | -17% | -17% | 90.1 | 89.3 | -1% | -1% |
| 20 | June | 42.2 | 42.3 | 0% | 0% | 88.8 | 89.7 | 1% | 1% | 112.4 | 112.6 | 0% | 0% | 83.2 | 81.8 | -2% | -2% | 27.2 | 21.1 | -22% | -12% | 46.3 | 46.1 | -1% | 0% |
| 20 | July | 6.8 | 6.9 | 2% | 1% | 13.7 | 14.1 | 3% | 1% | 20.5 | 19.1 | -7% | -3% | 15.4 | 13.4 | -13% | -7% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.6 | 2% | 1% |
| 20 | August | 5.6 | 5.6 | 0% | 0% | 11.4 | 11.4 | -1% | -1% | 17.3 | 15.6 | -10% | -10% | 13.1 | 11.4 | -13% | -13% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 20 | September | 6.5 | 6.5 | 0% | 0% | 13.2 | 13.0 | -1% | -1% | 19.2 | 17.9 | -7% | -7% | 15.4 | 15.1 | -2% | -2% | 3.4 | 0.4 | -88% | -88% | 6.4 | 6.1 | -5% | -5% |
| 20 | October | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.1 | -1% | -1% | 16.8 | 15.3 | -9% | -9% | 13.0 | 11.7 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 5.3 | 5.1 | -3% | -3% |
| 20 | November | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.4 | 1% | 1% | 14.2 | 13.1 | -8% | -8% | 11.0 | 9.8 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.7 | 1% | 1% |
| 20 | December | 4.2 | 4.1 | -1% | -1% | 8.6 | 8.7 | 2% | 2% | 13.1 | 12.2 | -7% | -7% | 10.0 | 9.1 | -10% | -10% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.3 | 3% | 3% |
| 21 | January | 3.7 | 3.7 | 0% | 0% | 7.7 | 7.9 | 2% | 2% | 11.9 | 11.2 | -6% | -6% | 9.0 | 8.2 | -8% | -8% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 3% | 3% |
| 21 | February | 3.0 | 2.9 | -1% | -1% | 6.4 | 7.0 | 9% | 9% | 9.8 | 9.7 | -1% | -1% | 7.4 | 6.9 | -7% | -7% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.2 | 17% | 17% |
| 21 | March | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.2 | -2% | -2% | 11.1 | 10.4 | -6% | -6% | 8.4 | 8.1 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.7 | 3.5 | -5% | -5% |
| 21 | April | 21.3 | 21.2 | -1% | -1% | 47.0 | 46.3 | -1% | -1% | 56.3 | 57.9 | 3% | 3% | 40.2 | 46.7 | 16% | 16% | 13.0 | 8.2 | -37% | -37% | 25.0 | 23.7 | -5% | -5% |
| 21 | May | 28.1 | 28.3 | 1% | 0% | 60.0 | 60.2 | 0% | 0% | 73.3 | 75.0 | 2% | 1% | 49.9 | 51.5 | 3% | 2% | 17.5 | 12.7 | -28% | -13% | 30.5 | 29.8 | -2% | -1% |
| 21 | June | 8.2 | 8.2 | 1% | 0% | 17.0 | 16.8 | -1% | 0% | 23.5 | 22.5 | -4% | -1% | 17.9 | 17.7 | -1% | 0% | 4.2 | 1.0 | -76% | -7% | 8.5 | 8.1 | -5% | -1% |
| 21 | July | 6.0 | 6.0 | 0% | 0% | 12.4 | 12.2 | -1% | 0% | 17.8 | 16.5 | -7% | -3% | 13.1 | 11.7 | -11% | -5% | 3.7 | 0.9 | -76% | -20% | 6.0 | 5.8 | -3% | -1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | August | 5.1 | 5.1 | -1% | -1% | 10.6 | 10.4 | -1% | -1% | 15.4 | 14.3 | -7% | -7% | 11.7 | 10.4 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.2 | 5.0 | -3% | -3% |
| 21 | September | 5.5 | 5.5 | 0% | 0% | 11.5 | 11.2 | -2% | -2% | 16.4 | 15.6 | -5% | -5% | 13.0 | 12.7 | -2% | -2% | 3.3 | 0.4 | -88% | -88% | 5.7 | 5.4 | -6% | -6% |
| 21 | October | 4.9 | 4.9 | 0% | 0% | 10.3 | 10.1 | -1% | -1% | 14.8 | 14.0 | -6% | -6% | 11.5 | 10.6 | -8% | -8% | 3.0 | 0.3 | -90% | -90% | 5.0 | 4.8 | -4% | -4% |
| 21 | November | 5.2 | 5.2 | 0% | 0% | 10.8 | 11.2 | 4% | 4% | 15.3 | 15.4 | 1% | 1% | 12.2 | 12.1 | -1% | -1% | 3.1 | 0.2 | -93% | -93% | 5.4 | 5.8 | 7% | 7% |
| 21 | December | 4.4 | 4.3 | 0% | 0% | 9.2 | 9.4 | 1% | 1% | 13.2 | 12.8 | -3% | -3% | 10.1 | 9.4 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.6 | 4.7 | 3% | 3% |
| 22 | January | 3.8 | 3.7 | -1% | -1% | 8.2 | 8.5 | 4% | 4% | 11.8 | 11.7 | -1% | -1% | 8.9 | 8.4 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.5 | 6% | 6% |
| 22 | February | 3.1 | 3.1 | 1% | 1% | 6.8 | 7.5 | 11% | 11% | 9.8 | 10.3 | 4% | 4% | 7.4 | 7.0 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.6 | 19% | 19% |
| 22 | March | 3.1 | 3.1 | 0% | 0% | 7.0 | 7.2 | 3% | 3% | 10.1 | 10.0 | -1% | -1% | 7.4 | 7.1 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 4% | 4% |
| 22 | April | 6.3 | 6.3 | 0% | 0% | 13.5 | 13.2 | -2% | -1% | 18.3 | 18.5 | 1% | 1% | 14.9 | 18.1 | 21% | 20% | 2.9 | 0.0 | -100% | -44% | 6.8 | 6.3 | -8% | -5% |
| 22 | May | 72.1 | 72.0 | 0% | 0% | 158.9 | 159.5 | 0% | 0% | 190.4 | 197.3 | 4% | 4% | 129.0 | 132.8 | 3% | 3% | 49.2 | 40.0 | -19% | -19% | 83.4 | 82.0 | -2% | -2% |
| 22 | June | 88.2 | 88.2 | 0% | 0% | 188.6 | 190.1 | 1% | 1% | 235.1 | 237.4 | 1% | 1% | 171.8 | 169.4 | -1% | -1% | 59.6 | 49.4 | -17% | -17% | 100.0 | 99.2 | -1% | -1% |
| 22 | July | 7.1 | 7.3 | 2% | 1% | 14.2 | 14.9 | 5% | 2% | 21.2 | 20.0 | -6% | -3% | 16.1 | 14.1 | -12% | -7% | 3.8 | 0.9 | -76% | -21% | 6.5 | 7.1 | 8% | 2% |
| 22 | August | 6.0 | 6.0 | 1% | 1% | 12.0 | 11.9 | -1% | -1% | 18.0 | 16.2 | -10% | -10% | 13.7 | 12.0 | -12% | -12% | 3.4 | 0.6 | -82% | -82% | 5.6 | 5.4 | -3% | -3% |
| 22 | September | 25.6 | 25.6 | 0% | 0% | 54.5 | 54.7 | 0% | 0% | 68.3 | 68.6 | 0% | 0% | 51.1 | 53.2 | 4% | 4% | 15.7 | 10.7 | -32% | -32% | 28.4 | 27.8 | -2% | -2% |
| 22 | October | 9.8 | 9.9 | 1% | 1% | 20.2 | 20.3 | 1% | 1% | 27.8 | 26.9 | -3% | -3% | 21.9 | 21.5 | -2% | -2% | 4.9 | 1.5 | -69% | -69% | 9.6 | 9.6 | -1% | -1% |
| 22 | November | 6.1 | 6.1 | 0% | 0% | 12.6 | 13.4 | 7% | 7% | 18.4 | 18.0 | -3% | -3% | 13.6 | 12.1 | -11% | -11% | 3.9 | 0.9 | -77% | -77% | 6.3 | 7.1 | 13% | 13% |
| 22 | December | 5.4 | 5.4 | 0% | 0% | 11.1 | 11.2 | 1% | 1% | 16.6 | 15.4 | -7% | -7% | 12.3 | 10.9 | -12% | -12% | 3.4 | 0.7 | -80% | -80% | 5.4 | 5.5 | 2% | 2% |
| 23 | January | 4.7 | 4.8 | 1% | 1% | 9.8 | 10.1 | 3% | 3% | 14.8 | 14.3 | -4% | -4% | 11.2 | 9.9 | -11% | -11% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.0 | 5% | 5% |
| 23 | February | 4.0 | 3.9 | -1% | -1% | 8.2 | 8.2 | -1% | -1% | 12.6 | 11.5 | -8% | -8% | 9.5 | 8.6 | -10% | -10% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.3 | -2% | -2% |
| 23 | March | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.5 | 7% | 7% | 12.2 | 11.9 | -3% | -3% | 9.2 | 8.4 | -9% | -9% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.5 | 14% | 14% |
| 23 | April | 7.3 | 7.3 | 0% | 0% | 15.3 | 15.3 | 0% | 0% | 21.2 | 21.3 | 0% | 0% | 17.6 | 20.3 | 15% | 15% | 3.2 | 0.0 | -100% | -48% | 7.7 | 7.3 | -4% | -3% |
| 23 | May | 101.0 | 100.8 | 0% | 0% | 221.1 | 221.9 | 0% | 0% | 270.0 | 276.4 | 2% | 2% | 188.5 | 190.1 | 1% | 1% | 69.3 | 57.6 | -17% | -17% | 115.8 | 113.9 | -2% | -2% |
| 23 | June | 30.4 | 30.5 | 0% | 0% | 63.3 | 64.1 | 1% | 1% | 81.0 | 81.0 | 0% | 0% | 59.8 | 59.3 | -1% | -1% | 18.9 | 13.8 | -27% | -10% | 32.5 | 32.6 | 0% | 0% |
| 23 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 14.1 | 0% | 0% | 20.9 | 19.2 | -8% | -4% | 15.6 | 13.8 | -11% | -6% | 3.8 | 0.9 | -77% | -21% | 6.6 | 6.5 | -2% | 0% |
| 23 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.7 | 16.1 | -9% | -9% | 13.3 | 11.8 | -12% | -12% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -2% | -2% |
| 23 | September | 4.9 | 4.9 | 0% | 0% | 10.0 | 9.9 | 0% | 0% | 15.2 | 13.8 | -9% | -9% | 11.6 | 10.3 | -12% | -12% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.8 | -2% | -2% |
| 23 | October | 6.3 | 6.4 | 1% | 1% | 12.9 | 12.7 | -1% | -1% | 18.9 | 17.9 | -5% | -5% | 15.3 | 15.4 | 0% | 0% | 3.2 | 0.2 | -94% | -94% | 6.1 | 5.8 | -6% | -6% |
| 23 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 9.6 | 0% | 0% | 14.4 | 13.3 | -8% | -8% | 11.1 | 10.0 | -10% | -10% | 2.8 | 0.2 | -93% | -93% | 4.7 | 4.7 | 0% | 0% |
| 23 | December | 4.2 | 4.2 | -1% | -1% | 8.7 | 8.8 | 2% | 2% | 13.2 | 12.3 | -7% | -7% | 10.0 | 9.1 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.3 | 3% | 3% |
| 24 | January | 3.7 | 3.6 | -1% | -1% | 7.8 | 8.0 | 3% | 3% | 12.0 | 11.3 | -5% | -5% | 9.0 | 8.3 | -7% | -7% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.1 | 6% | 6% |
| 24 | February | 3.0 | 3.0 | 0% | 0% | 6.4 | 6.6 | 2% | 2% | 9.9 | 9.4 | -5% | -5% | 7.4 | 7.0 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 24 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.7 | 2% | 2% | 10.1 | 9.6 | -4% | -4% | 7.5 | 7.1 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.5 | 4% | 4% |
| 24 | April | 5.8 | 5.8 | 0% | 0% | 12.2 | 12.2 | 0% | 0% | 17.1 | 17.4 | 1% | 1% | 14.3 | 17.2 | 21% | 19% | 2.7 | 0.0 | -100% | -41% | 6.1 | 5.8 | -5% | -3% |
| 24 | May | 19.9 | 19.8 | -1% | 0% | 43.5 | 42.8 | -2% | -1% | 51.8 | 52.6 | 1% | 1% | 35.8 | 40.7 | 14% | 7% | 11.4 | 7.1 | -38% | -12% | 22.3 | 21.1 | -5% | -2% |
| 24 | June | 27.6 | 27.7 | 1% | 0% | 59.3 | 59.3 | 0% | 0% | 71.6 | 73.7 | 3% | 1% | 48.4 | 49.7 | 3% | 2% | 18.2 | 13.4 | -26% | -10% | 31.3 | 30.4 | -3% | -1% |
| 24 | July | 6.1 | 6.1 | 0% | 0% | 12.7 | 12.8 | 1% | 0% | 18.3 | 17.2 | -6% | -3% | 13.1 | 11.8 | -10% | -4% | 3.6 | 0.8 | -78% | -20% | 6.2 | 6.2 | 0% | 0% |
| 24 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.6 | -1% | -1% | 15.7 | 14.6 | -7% | -7% | 11.5 | 10.3 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.2 | 5.1 | -2% | -2% |
| 24 | September | 4.3 | 4.4 | 1% | 1% | 9.1 | 9.1 | 0% | 0% | 13.5 | 12.6 | -6% | -6% | 10.2 | 9.1 | -11% | -11% | 2.9 | 0.3 | -90% | -90% | 4.6 | 4.6 | -2% | -2% |
| 24 | October | 4.1 | 4.1 | -1% | -1% | 8.6 | 8.5 | -1% | -1% | 12.8 | 12.0 | -6% | -6% | 9.9 | 9.1 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -2% | -2% |
| 24 | November | 3.5 | 3.4 | -1% | -1% | 7.5 | 7.4 | -1% | -1% | 11.2 | 10.5 | -6% | -6% | 8.7 | 8.0 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.8 | -1% | -1% |
| 24 | December | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.5 | 7% | 7% | 10.5 | 10.6 | 0% | 0% | 8.1 | 7.6 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.0 | 11% | 11% |
| 25 | January | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.7 | 4% | 4% | 9.7 | 9.5 | -2% | -2% | 7.3 | 7.0 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 25 | February | 2.4 | 2.4 | 0% | 0% | 5.5 | 5.8 | 7% | 7% | 8.1 | 8.2 | 1% | 1% | 6.0 | 5.8 | -2% | -2% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.6 | 12% | 12% |
| 25 | March | 2.5 | 2.4 | -1% | -1% | 5.6 | 5.8 | 3% | 3% | 8.4 | 8.3 | -1% | -1% | 6.0 | 5.9 | -1% | -1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.2 | 6% | 6% |
| 25 | April | 30.1 | 30.0 | 0% | 0% | 66.9 | 66.8 | 0% | 0% | 78.9 | 83.0 | 5% | 5% | 53.5 | 60.8 | 14% | 14% | 19.8 | 14.4 | -27% | -27% | 36.1 | 34.9 | -3% | -3% |
| 25 | May | 38.8 | 38.9 | 0% | 0% | 83.7 | 84.1 | 1% | 1% | 101.9 | 104.6 | 3% | 2% | 70.2 | 71.7 | 2% | 2% | 24.9 | 19.3 | -22% | -15% | 43.0 | 42.4 | -1% | -1% |
| 25 | June | 20.2 | 20.3 | 1% | 0% | 42.3 | 42.3 | 0% | 0% | 53.2 | 53.1 | 0% | 0% | 40.0 | 40.5 | 1% | 1% | 12.0 | 8.0 | -34% | -8% | 21.7 | 21.1 | -3% | -1% |
| 25 | July | 6.2 | 6.2 | 1% | 0% | 12.8 | 12.7 | -1% | 0% | 18.7 | 17.3 | -7% | -3% | 13.9 | 12.5 | -10% | -5% | 3.6 | 0.8 | -77% | -20% | 6.2 | 6.0 | -3% | -1% |
| 25 | August | 5.2 | 5.2 | 0% | 0% | 10.8 | 10.7 | -1% | -1% | 16.0 | 14.7 | -8% | -8% | 12.1 | 10.7 | -12% | -12% | 3.2 | 0.6 | -81% | -81% | 5.2 | 5.1 | -3% | -3% |
| 25 | September | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.7 | -1% | -1% | 14.6 | 13.5 | -8% | -8% | 11.4 | 10.3 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -4% | -4% |
| 25 | October | 7.3 | 7.4 | 0% | 0% | 15.2 | 15.0 | -2% | -2% | 21.3 | 20.6 | -3% | -3% | 17.3 | 18.4 | 7% | 7% | 3.4 | 0.2 | -94% | -94% | 7.3 | 6.9 | -6% | -6% |
| 25 | November | 4.7 | 4.6 | 0% | 0% | 9.7 | 9.8 | 2% | 2% | 14.2 | 13.4 | -5% | -5% | 11.0 | 9.9 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.0 | 3% | 3% |
| 25 | December | 4.1 | 4.1 | 0% | 0% | 8.7 | 8.7 | 0% | 0% | 12.9 | 12.1 | -6% | -6% | 9.9 | 9.0 | -9% | -9% | 2.7 | 0.2 | -92% | -92% | 4.4 | 4.3 | -1% | -1% |
| 26 | January | 3.6 | 3.6 | -1% | -1% | 7.8 | 8.0 | 3% | 3% | 11.6 | 11.2 | -3% | -3% | 8.9 | 8.2 | -8% | -8% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.2 | 5% | 5% |
| 26 | February | 2.9 | 2.9 | 0% | 0% | 6.4 | 6.6 | 2% | 2% | 9.6 | 9.3 | -3% | -3% | 7.4 | 6.9 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 3% | 3% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | March | 3.0 | 2.9 | -1% | -1% | 6.6 | 7.1 | 7% | 7% | 9.8 | 9.9 | 1% | 1% | 7.3 | 7.0 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.9 | 13% | 13% |
| 26 | April | 10.3 | 10.3 | 0% | 0% | 22.7 | 22.3 | -2% | -2% | 29.0 | 29.7 | 2% | 2% | 22.0 | 27.3 | 25% | 25% | 5.2 | 1.7 | -67% | -52% | 11.9 | 11.0 | -7% | -7% |
| 26 | May | 28.5 | 28.5 | 0% | 0% | 62.0 | 61.6 | -1% | 0% | 73.0 | 75.3 | 3% | 2% | 49.1 | 52.0 | 6% | 4% | 18.4 | 13.5 | -27% | -13% | 31.9 | 30.8 | -4% | -2% |
| 26 | June | 15.4 | 15.5 | 1% | 0% | 32.5 | 32.3 | -1% | 0% | 40.3 | 40.1 | 0% | 0% | 29.0 | 29.5 | 2% | 1% | 9.1 | 5.3 | -42% | -8% | 16.7 | 16.1 | -4% | -1% |
| 26 | July | 5.9 | 5.9 | 0% | 0% | 12.4 | 12.4 | 0% | 0% | 17.8 | 16.8 | -6% | -2% | 12.9 | 11.5 | -11% | -5% | 3.7 | 0.9 | -76% | -20% | 6.1 | 6.0 | -1% | 0% |
| 26 | August | 5.0 | 5.0 | 0% | 0% | 10.5 | 10.4 | 0% | 0% | 15.2 | 14.3 | -6% | -6% | 11.3 | 10.1 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.1 | 5.1 | -2% | -2% |
| 26 | September | 5.9 | 5.9 | 1% | 1% | 12.3 | 12.1 | -2% | -2% | 17.3 | 16.6 | -4% | -4% | 13.8 | 13.8 | 1% | 1% | 3.4 | 0.4 | -88% | -88% | 6.2 | 5.8 | -6% | -6% |
| 26 | October | 8.5 | 8.5 | 0% | 0% | 18.1 | 17.9 | -1% | -1% | 24.2 | 23.9 | -1% | -1% | 19.5 | 20.9 | 7% | 7% | 4.1 | 0.6 | -85% | -85% | 8.9 | 8.5 | -4% | -4% |
| 26 | November | 4.9 | 4.9 | 0% | 0% | 10.5 | 10.8 | 2% | 2% | 14.9 | 14.4 | -3% | -3% | 11.2 | 10.2 | -9% | -9% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.7 | 3% | 3% |
| 26 | December | 4.4 | 4.4 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 13.5 | 13.4 | -1% | -1% | 10.1 | 9.2 | -10% | -10% | 3.1 | 0.5 | -84% | -84% | 4.9 | 5.2 | 7% | 7% |
| 27 | January | 3.9 | 3.9 | 0% | 0% | 8.4 | 8.7 | 3% | 3% | 12.1 | 11.9 | -2% | -2% | 9.1 | 8.4 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.5 | 4% | 4% |
| 27 | February | 3.3 | 3.2 | -1% | -1% | 7.1 | 7.3 | 3% | 3% | 10.4 | 10.2 | -2% | -2% | 7.8 | 7.3 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.1 | 4% | 4% |
| 27 | March | 3.2 | 3.1 | -2% | -2% | 7.1 | 7.6 | 8% | 8% | 10.3 | 10.6 | 3% | 3% | 7.5 | 7.1 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.3 | 15% | 15% |
| 27 | April | 17.8 | 17.6 | -1% | -1% | 39.2 | 38.9 | -1% | -1% | 47.0 | 48.5 | 3% | 3% | 33.0 | 38.9 | 18% | 18% | 10.9 | 6.4 | -41% | -41% | 20.9 | 20.0 | -4% | -4% |
| 27 | May | 71.2 | 71.3 | 0% | 0% | 155.5 | 156.6 | 1% | 1% | 188.9 | 195.5 | 3% | 3% | 129.5 | 130.4 | 1% | 1% | 48.7 | 39.9 | -18% | -18% | 81.2 | 80.2 | -1% | -1% |
| 27 | June | 57.5 | 57.6 | 0% | 0% | 122.4 | 123.3 | 1% | 1% | 153.4 | 154.7 | 1% | 1% | 112.3 | 111.0 | -1% | -1% | 38.3 | 30.8 | -20% | -15% | 64.6 | 63.9 | -1% | -1% |
| 27 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 14.4 | 3% | 1% | 20.9 | 19.6 | -6% | -3% | 15.6 | 13.8 | -12% | -6% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.8 | 4% | 1% |
| 27 | August | 5.8 | 5.7 | 0% | 0% | 11.7 | 11.6 | -1% | -1% | 17.6 | 15.9 | -9% | -9% | 13.3 | 11.7 | -12% | -12% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.4 | -2% | -2% |
| 27 | September | 4.9 | 4.9 | -1% | -1% | 9.9 | 9.8 | 0% | 0% | 15.0 | 13.6 | -9% | -9% | 11.6 | 10.2 | -12% | -12% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 27 | October | 5.6 | 5.6 | -1% | -1% | 11.3 | 11.1 | -2% | -2% | 16.8 | 16.0 | -5% | -5% | 13.6 | 13.1 | -3% | -3% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.0 | -5% | -5% |
| 27 | November | 4.5 | 4.5 | 0% | 0% | 9.1 | 9.3 | 2% | 2% | 13.8 | 12.9 | -7% | -7% | 10.8 | 9.8 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.5 | 4.7 | 4% | 4% |
| 27 | December | 4.0 | 4.0 | 0% | 0% | 8.3 | 8.5 | 3% | 3% | 12.7 | 12.0 | -6% | -6% | 9.7 | 8.9 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |
| 28 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.0 | 6% | 6% | 11.6 | 11.2 | -3% | -3% | 8.7 | 8.1 | -7% | -7% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 12% | 12% |
| 28 | February | 2.9 | 2.8 | 0% | 0% | 6.2 | 6.5 | 5% | 5% | 9.6 | 9.2 | -3% | -3% | 7.2 | 6.8 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 28 | March | 2.9 | 2.8 | -1% | -1% | 6.4 | 6.5 | 2% | 2% | 9.7 | 9.3 | -4% | -4% | 7.4 | 6.9 | -6% | -6% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 28 | April | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.2 | -1% | 0% | 10.8 | 10.5 | -3% | -1% | 8.3 | 8.9 | 8% | 4% | 2.1 | 0.0 | -100% | -30% | 3.8 | 3.6 | -5% | -2% |
| 28 | May | 36.5 | 36.4 | 0% | 0% | 80.7 | 80.5 | 0% | 0% | 96.0 | 100.0 | 4% | 3% | 64.8 | 71.6 | 10% | 10% | 23.5 | 17.4 | -26% | -16% | 42.1 | 40.7 | -3% | -3% |
| 28 | June | 74.7 | 74.7 | 0% | 0% | 161.7 | 162.6 | 1% | 1% | 199.1 | 203.2 | 2% | 2% | 142.4 | 142.5 | 0% | 0% | 51.3 | 42.3 | -17% | -17% | 86.5 | 85.4 | -1% | -1% |
| 28 | July | 6.6 | 6.7 | 2% | 1% | 13.0 | 13.7 | 6% | 2% | 19.5 | 18.6 | -5% | -2% | 14.5 | 13.1 | -10% | -5% | 3.3 | 0.6 | -82% | -20% | 5.9 | 6.5 | 9% | 2% |
| 28 | August | 5.6 | 5.6 | 0% | 0% | 11.1 | 11.0 | -1% | -1% | 16.8 | 15.2 | -10% | -10% | 12.9 | 11.5 | -11% | -11% | 3.1 | 0.5 | -84% | -84% | 5.1 | 5.0 | -3% | -3% |
| 28 | September | 5.3 | 5.3 | 0% | 0% | 10.5 | 10.3 | -2% | -2% | 15.8 | 14.3 | -9% | -9% | 12.5 | 11.5 | -8% | -8% | 3.0 | 0.3 | -90% | -90% | 5.0 | 4.8 | -5% | -5% |
| 28 | October | 9.0 | 9.0 | 0% | 0% | 18.5 | 18.3 | -1% | -1% | 25.5 | 24.6 | -4% | -4% | 21.3 | 23.1 | 8% | 8% | 3.7 | 0.2 | -95% | -95% | 8.8 | 8.3 | -5% | -5% |
| 28 | November | 5.2 | 5.2 | -1% | -1% | 10.6 | 10.5 | 0% | 0% | 15.5 | 14.4 | -7% | -7% | 12.0 | 10.8 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.1 | 0% | 0% |
| 28 | December | 4.6 | 4.7 | 0% | 0% | 9.6 | 10.1 | 5% | 5% | 14.2 | 13.6 | -4% | -4% | 10.8 | 9.8 | -10% | -10% | 2.9 | 0.4 | -86% | -86% | 4.7 | 5.1 | 8% | 8% |
| 29 | January | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.9 | 3% | 3% | 12.8 | 12.2 | -5% | -5% | 9.7 | 8.9 | -9% | -9% | 2.6 | 0.2 | -92% | -92% | 4.2 | 4.5 | 5% | 5% |
| 29 | February | 3.6 | 3.6 | -1% | -1% | 7.6 | 7.5 | -1% | -1% | 11.3 | 10.6 | -7% | -7% | 8.6 | 8.2 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -3% | -3% |
| 29 | March | 10.1 | 10.0 | 0% | 0% | 21.8 | 21.5 | -1% | -1% | 28.4 | 28.7 | 1% | 1% | 22.2 | 26.2 | 18% | 18% | 4.8 | 1.2 | -75% | -75% | 10.9 | 10.3 | -5% | -5% |
| 29 | April | 28.5 | 28.5 | 0% | 0% | 61.7 | 61.5 | 0% | 0% | 73.4 | 75.5 | 3% | 3% | 49.7 | 52.4 | 5% | 5% | 19.1 | 13.9 | -27% | -27% | 32.7 | 31.8 | -3% | -3% |
| 29 | May | 17.1 | 17.2 | 1% | 0% | 36.2 | 36.0 | -1% | 0% | 45.4 | 45.2 | 0% | 0% | 32.7 | 33.1 | 1% | 1% | 10.1 | 6.1 | -39% | -11% | 18.1 | 17.4 | -4% | -1% |
| 29 | June | 7.8 | 7.9 | 1% | 0% | 16.7 | 16.4 | -2% | 0% | 23.0 | 21.9 | -5% | -1% | 17.5 | 17.0 | -2% | -1% | 4.6 | 1.3 | -72% | -7% | 8.5 | 8.1 | -5% | -1% |
| 29 | July | 6.1 | 6.0 | 0% | 0% | 12.7 | 12.6 | -1% | 0% | 18.2 | 17.0 | -7% | -3% | 13.4 | 12.1 | -10% | -4% | 3.9 | 1.0 | -75% | -21% | 6.3 | 6.1 | -3% | -1% |
| 29 | August | 5.1 | 5.2 | 1% | 1% | 10.8 | 10.8 | 0% | 0% | 15.7 | 14.8 | -6% | -6% | 11.8 | 10.7 | -10% | -10% | 3.5 | 0.5 | -86% | -86% | 5.4 | 5.3 | -2% | -2% |
| 29 | September | 4.4 | 4.4 | 0% | 0% | 9.3 | 9.3 | 0% | 0% | 13.6 | 12.8 | -6% | -6% | 10.4 | 9.4 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 29 | October | 8.8 | 8.8 | 0% | 0% | 18.7 | 18.5 | -1% | -1% | 24.9 | 25.0 | 0% | 0% | 20.1 | 22.6 | 12% | 12% | 4.1 | 0.5 | -88% | -88% | 9.2 | 8.7 | -5% | -5% |
| 29 | November | 5.1 | 5.1 | 0% | 0% | 10.8 | 11.1 | 2% | 2% | 15.3 | 14.9 | -2% | -2% | 11.6 | 10.8 | -7% | -7% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.7 | 4% | 4% |
| 29 | December | 4.6 | 4.5 | -1% | -1% | 9.8 | 9.9 | 1% | 1% | 13.9 | 13.5 | -3% | -3% | 10.4 | 9.6 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 5.0 | 5.1 | 2% | 2% |
| 30 | January | 4.0 | 4.0 | 0% | 0% | 8.7 | 9.0 | 3% | 3% | 12.4 | 12.3 | -1% | -1% | 9.3 | 8.7 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.7 | 5% | 5% |
| 30 | February | 3.3 | 3.3 | 0% | 0% | 7.1 | 7.2 | 0% | 0% | 10.3 | 10.0 | -3% | -3% | 7.7 | 7.3 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | -1% | -1% |
| 30 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 10.5 | 10.5 | -1% | -1% | 7.7 | 7.5 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 30 | April | 14.5 | 14.4 | -1% | -1% | 31.8 | 31.6 | -1% | -1% | 38.8 | 40.2 | 3% | 3% | 27.8 | 33.6 | 21% | 21% | 8.4 | 4.2 | -50% | -50% | 16.8 | 16.1 | -4% | -4% |
| 30 | May | 33.3 | 33.4 | 0% | 0% | 72.0 | 72.1 | 0% | 0% | 86.1 | 89.1 | 3% | 3% | 56.9 | 59.0 | 4% | 3% | 21.8 | 16.4 | -25% | -14% | 37.0 | 36.1 | -2% | -2% |
| 30 | June | 31.0 | 31.1 | 0% | 0% | 66.5 | 66.4 | 0% | 0% | 82.2 | 83.3 | 1% | 1% | 58.4 | 58.7 | 0% | 0% | 20.6 | 15.4 | -25% | -11% | 35.1 | 34.2 | -2% | -1% |
| 30 | July | 6.5 | 6.6 | 1% | 0% | 13.7 | 13.8 | 1% | 0% | 19.6 | 18.6 | -6% | -3% | 14.5 | 13.0 | -10% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.6 | 0% | 0% |
| 30 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.4 | -1% | -1% | 16.7 | 15.5 | -7% | -7% | 12.5 | 11.2 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -2% | -2% |
| 30 | September | 4.7 | 4.7 | -1% | -1% | 9.7 | 9.7 | 0% | 0% | 14.4 | 13.4 | -7% | -7% | 11.0 | 9.9 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.8 | -1% | -1% |

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| 30 | October | 5.0 | 5.0 | 0% | 0% | 10.3 | 10.2 | -1% | -1% | 15.2 | 14.4 | -5% | -5% | 12.0 | 11.4 | -5% | -5% | 3.0 | 0.2 | -93% | -93% | 5.0 | 4.8 | -4% | -4% |
| 30 | November | 4.2 | 4.1 | -1% | -1% | 8.7 | 8.6 | -1% | -1% | 12.9 | 12.0 | -7% | -7% | 10.1 | 9.3 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.3 | -2% | -2% |
| 30 | December | 3.7 | 3.7 | -1% | -1% | 8.0 | 8.0 | 1% | 1% | 11.9 | 11.3 | -5% | -5% | 9.2 | 8.6 | -6% | -6% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 1% | 1% |
| 31 | January | 3.3 | 3.3 | 0% | 0% | 7.2 | 8.1 | 12% | 12% | 10.8 | 11.1 | 3% | 3% | 8.3 | 7.9 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.5 | 22% | 22% |
| 31 | February | 2.8 | 2.8 | 0% | 0% | 6.3 | 6.9 | 10% | 10% | 9.3 | 9.9 | 6% | 6% | 7.1 | 6.8 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.5 | 4.1 | 19% | 19% |
| 31 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.4 | 3% | 3% | 9.3 | 9.1 | -2% | -2% | 6.8 | 6.7 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 6% | 6% |
| 31 | April | 24.2 | 24.1 | 0% | 0% | 53.5 | 53.4 | 0% | 0% | 63.2 | 66.4 | 5% | 5% | 44.1 | 51.2 | 16% | 16% | 15.3 | 10.2 | -33% | -33% | 28.6 | 27.6 | -3% | -3% |
| 31 | May | 73.5 | 73.6 | 0% | 0% | 160.0 | 161.0 | 1% | 1% | 195.6 | 200.9 | 3% | 3% | 136.4 | 137.2 | 1% | 1% | 49.5 | 40.8 | -18% | -18% | 83.3 | 82.2 | -1% | -1% |
| 31 | June | 41.6 | 41.7 | 0% | 0% | 87.9 | 88.7 | 1% | 1% | 110.8 | 111.5 | 1% | 0% | 81.9 | 81.2 | -1% | -1% | 26.8 | 20.9 | -22% | -12% | 45.9 | 45.6 | -1% | 0% |
| 31 | July | 6.8 | 6.9 | 1% | 1% | 13.7 | 14.1 | 2% | 1% | 20.4 | 19.1 | -6% | -3% | 15.3 | 13.6 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.7 | 3% | 1% |
| 31 | August | 5.7 | 5.7 | -1% | -1% | 11.6 | 11.4 | -1% | -1% | 17.4 | 15.7 | -10% | -10% | 13.1 | 11.6 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 31 | September | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.7 | 0% | 0% | 14.8 | 13.4 | -9% | -9% | 11.5 | 10.2 | -11% | -11% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.7 | -1% | -1% |
| 31 | October | 4.4 | 4.4 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.8 | 12.5 | -10% | -10% | 10.7 | 9.6 | -10% | -10% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -1% | -1% |
| 31 | November | 3.8 | 3.8 | -1% | -1% | 7.8 | 7.8 | 0% | 0% | 12.2 | 11.1 | -9% | -9% | 9.5 | 8.6 | -9% | -9% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 31 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.5 | 1% | 1% | 11.5 | 10.7 | -7% | -7% | 8.8 | 8.1 | -8% | -8% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 32 | January | 3.1 | 3.1 | -1% | -1% | 6.7 | 7.0 | 6% | 6% | 10.5 | 10.1 | -4% | -4% | 8.0 | 7.5 | -6% | -6% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 11% | 11% |
| 32 | February | 2.5 | 2.5 | -2% | -2% | 5.5 | 6.0 | 9% | 9% | 8.7 | 8.6 | 0% | 0% | 6.5 | 6.2 | -5% | -5% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.7 | 17% | 17% |
| 32 | March | 2.5 | 2.5 | 0% | 0% | 5.7 | 5.8 | 2% | 2% | 8.9 | 8.5 | -4% | -4% | 6.5 | 6.4 | -2% | -2% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.1 | 3% | 3% |
| 32 | April | 8.2 | 8.1 | 0% | 0% | 17.8 | 17.8 | 0% | 0% | 23.8 | 24.8 | 4% | 4% | 19.3 | 24.9 | 29% | 29% | 3.4 | 0.3 | -91% | -45% | 9.2 | 8.8 | -5% | -4% |
| 32 | May | 41.7 | 41.7 | 0% | 0% | 91.4 | 91.3 | 0% | 0% | 108.3 | 112.3 | 4% | 3% | 71.4 | 74.9 | 5% | 5% | 27.8 | 21.8 | -21% | -16% | 47.6 | 46.3 | -3% | -2% |
| 32 | June | 39.3 | 39.4 | 0% | 0% | 84.6 | 85.0 | 1% | 0% | 104.2 | 106.3 | 2% | 1% | 75.3 | 75.7 | 1% | 0% | 26.2 | 20.4 | -22% | -12% | 44.8 | 44.2 | -1% | -1% |
| 32 | July | 6.3 | 6.4 | 2% | 1% | 12.9 | 13.1 | 2% | 1% | 19.0 | 17.8 | -6% | -3% | 14.1 | 12.6 | -10% | -5% | 3.5 | 0.8 | -77% | -19% | 6.1 | 6.2 | 1% | 0% |
| 32 | August | 5.4 | 5.3 | -1% | -1% | 10.9 | 10.8 | -1% | -1% | 16.3 | 14.8 | -9% | -9% | 12.4 | 11.0 | -11% | -11% | 3.2 | 0.6 | -81% | -81% | 5.1 | 5.0 | -2% | -2% |
| 32 | September | 4.5 | 4.5 | 0% | 0% | 9.2 | 9.2 | 0% | 0% | 14.0 | 12.7 | -9% | -9% | 10.8 | 9.6 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.5 | -2% | -2% |
| 32 | October | 4.6 | 4.6 | 0% | 0% | 9.3 | 9.2 | -1% | -1% | 14.1 | 12.9 | -8% | -8% | 11.2 | 10.3 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.2 | -3% | -3% |
| 32 | November | 3.9 | 3.9 | -1% | -1% | 8.0 | 8.3 | 4% | 4% | 12.2 | 11.7 | -4% | -4% | 9.6 | 8.9 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.3 | 9% | 9% |
| 32 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.8 | 6% | 6% | 11.4 | 11.0 | -3% | -3% | 8.8 | 8.2 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 11% | 11% |
| 33 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 7.1 | 5% | 5% | 10.3 | 10.0 | -3% | -3% | 8.0 | 7.6 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 33 | February | 2.5 | 2.5 | -1% | -1% | 5.6 | 6.0 | 7% | 7% | 8.6 | 8.5 | 0% | 0% | 6.5 | 6.3 | -3% | -3% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.6 | 13% | 13% |
| 33 | March | 2.6 | 2.6 | 0% | 0% | 5.8 | 6.5 | 12% | 12% | 8.8 | 9.2 | 4% | 4% | 6.5 | 6.4 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.7 | 22% | 22% |
| 33 | April | 29.3 | 29.2 | 0% | 0% | 65.2 | 65.2 | 0% | 0% | 77.1 | 81.2 | 5% | 5% | 53.0 | 60.3 | 14% | 14% | 19.1 | 13.8 | -28% | -28% | 35.2 | 34.1 | -3% | -3% |
| 33 | May | 72.7 | 72.7 | 0% | 0% | 158.0 | 159.0 | 1% | 1% | 193.5 | 198.5 | 3% | 3% | 136.5 | 137.2 | 1% | 1% | 48.6 | 40.0 | -18% | -18% | 82.1 | 81.2 | -1% | -1% |
| 33 | June | 91.8 | 91.8 | 0% | 0% | 195.9 | 197.5 | 1% | 1% | 245.8 | 247.2 | 1% | 1% | 181.2 | 177.7 | -2% | -2% | 61.8 | 51.4 | -17% | -17% | 103.7 | 102.9 | -1% | -1% |
| 33 | July | 6.9 | 7.1 | 2% | 1% | 13.7 | 14.5 | 6% | 2% | 20.9 | 19.6 | -6% | -3% | 15.9 | 14.0 | -12% | -6% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.9 | 9% | 3% |
| 33 | August | 5.7 | 5.8 | 1% | 1% | 11.4 | 11.4 | 0% | 0% | 17.4 | 15.7 | -10% | -10% | 13.4 | 11.8 | -12% | -12% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.2 | -2% | -2% |
| 33 | September | 4.8 | 4.8 | 0% | 0% | 9.6 | 9.6 | 0% | 0% | 14.8 | 13.4 | -10% | -10% | 11.6 | 10.3 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.5 | -2% | -2% |
| 33 | October | 6.8 | 6.8 | 0% | 0% | 13.8 | 13.6 | -2% | -2% | 20.1 | 18.9 | -6% | -6% | 16.7 | 17.3 | 3% | 3% | 3.2 | 0.2 | -94% | -94% | 6.5 | 6.1 | -6% | -6% |
| 33 | November | 4.7 | 4.8 | 2% | 2% | 9.4 | 9.8 | 4% | 4% | 14.3 | 13.4 | -6% | -6% | 11.1 | 10.0 | -10% | -10% | 2.7 | 0.2 | -92% | -92% | 4.6 | 4.8 | 5% | 5% |
| 33 | December | 4.2 | 4.1 | -1% | -1% | 8.5 | 8.6 | 1% | 1% | 13.2 | 12.1 | -8% | -8% | 10.0 | 9.1 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.2 | 1% | 1% |
| 34 | January | 3.7 | 3.6 | 0% | 0% | 7.6 | 7.9 | 3% | 3% | 11.9 | 11.2 | -6% | -6% | 9.0 | 8.3 | -7% | -7% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 6% | 6% |
| 34 | February | 2.9 | 2.9 | 0% | 0% | 6.3 | 6.7 | 6% | 6% | 9.8 | 9.5 | -4% | -4% | 7.4 | 7.0 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.9 | 11% | 11% |
| 34 | March | 2.9 | 2.9 | -1% | -1% | 6.4 | 6.6 | 3% | 3% | 9.9 | 9.5 | -4% | -4% | 7.4 | 7.1 | -4% | -4% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 6% | 6% |
| 34 | April | 14.2 | 14.1 | -1% | -1% | 31.6 | 31.1 | -2% | -2% | 39.3 | 40.1 | 2% | 2% | 29.1 | 35.3 | 22% | 22% | 8.0 | 4.1 | -49% | -49% | 16.8 | 15.7 | -7% | -7% |
| 34 | May | 32.5 | 32.6 | 0% | 0% | 70.2 | 70.1 | 0% | 0% | 84.2 | 86.8 | 3% | 2% | 56.5 | 58.8 | 4% | 3% | 21.0 | 15.9 | -24% | -14% | 36.0 | 35.0 | -3% | -2% |
| 34 | June | 15.8 | 15.9 | 1% | 0% | 33.2 | 33.2 | 0% | 0% | 41.9 | 41.8 | 0% | 0% | 30.8 | 31.3 | 2% | 1% | 9.3 | 5.4 | -42% | -8% | 17.0 | 16.6 | -3% | -1% |
| 34 | July | 6.0 | 6.0 | 0% | 0% | 12.4 | 12.4 | -1% | 0% | 18.2 | 16.9 | -8% | -3% | 13.3 | 12.0 | -10% | -4% | 3.6 | 0.9 | -75% | -19% | 6.0 | 5.9 | -2% | -1% |
| 34 | August | 5.0 | 5.0 | -1% | -1% | 10.5 | 10.4 | -1% | -1% | 15.6 | 14.4 | -8% | -8% | 11.6 | 10.4 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.1 | 5.0 | -2% | -2% |
| 34 | September | 4.6 | 4.6 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 14.1 | 13.1 | -7% | -7% | 10.9 | 10.0 | -8% | -8% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.6 | -3% | -3% |
| 34 | October | 7.2 | 7.2 | 0% | 0% | 15.1 | 14.9 | -2% | -2% | 21.0 | 20.5 | -2% | -2% | 17.0 | 18.5 | 9% | 9% | 3.4 | 0.2 | -94% | -94% | 7.3 | 6.9 | -6% | -6% |
| 34 | November | 4.5 | 4.5 | 0% | 0% | 9.6 | 9.5 | -1% | -1% | 13.9 | 13.1 | -6% | -6% | 10.6 | 9.7 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.9 | 4.8 | -2% | -2% |
| 34 | December | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.9 | 3% | 3% | 12.6 | 12.3 | -3% | -3% | 9.6 | 8.9 | -7% | -7% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.6 | 5% | 5% |
| 35 | January | 3.5 | 3.5 | -1% | -1% | 7.7 | 8.1 | 5% | 5% | 11.3 | 11.3 | 0% | 0% | 8.7 | 8.1 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.3 | 10% | 10% |
| 35 | February | 3.0 | 3.0 | 0% | 0% | 6.6 | 7.4 | 12% | 12% | 9.8 | 10.2 | 5% | 5% | 7.3 | 7.1 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.5 | 22% | 22% |
| 35 | March | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.7 | 3% | 3% | 15.9 | 16.5 | 4% | 4% | 13.1 | 15.2 | 16% | 16% | 2.7 | 0.0 | -100% | -100% | 5.4 | 5.6 | 3% | 3% |
| 35 | April | 39.1 | 39.1 | 0% | 0% | 86.6 | 86.6 | 0% | 0% | 102.7 | 107.0 | 4% | 4% | 67.6 | 72.7 | 8% | 8% | 27.0 | 20.5 | -24% | -24% | 46.9 | 45.7 | -2% | -2% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | May | 67.3 | 67.3 | 0% | 0% | 145.6 | 146.4 | 1% | 1% | 179.3 | 183.2 | 2% | 2% | 128.4 | 128.3 | 0% | 0% | 44.9 | 36.6 | -18% | -18% | 75.4 | 74.4 | -1% | -1% |
| 35 | June | 32.6 | 32.6 | 0% | 0% | 68.4 | 68.7 | 0% | 0% | 87.0 | 86.8 | 0% | 0% | 64.6 | 63.9 | -1% | -1% | 20.7 | 15.4 | -25% | -11% | 35.4 | 34.9 | -1% | -1% |
| 35 | July | 6.9 | 7.0 | 1% | 0% | 14.3 | 14.4 | 1% | 0% | 21.0 | 19.6 | -7% | -3% | 15.6 | 14.0 | -10% | -5% | 4.0 | 1.0 | -75% | -21% | 6.8 | 6.9 | 1% | 0% |
| 35 | August | 5.8 | 5.9 | 3% | 3% | 11.9 | 12.0 | 1% | 1% | 17.7 | 16.3 | -8% | -8% | 13.3 | 11.9 | -11% | -11% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.6 | -2% | -2% |
| 35 | September | 28.5 | 28.5 | 0% | 0% | 61.2 | 61.3 | 0% | 0% | 76.4 | 77.2 | 1% | 1% | 56.1 | 58.3 | 4% | 4% | 18.1 | 12.8 | -29% | -29% | 32.2 | 31.5 | -2% | -2% |
| 35 | October | 13.6 | 13.7 | 0% | 0% | 28.3 | 28.5 | 1% | 1% | 37.2 | 36.8 | -1% | -1% | 28.6 | 28.5 | 0% | 0% | 7.3 | 3.6 | -51% | -51% | 13.8 | 13.7 | 0% | 0% |
| 35 | November | 6.1 | 6.1 | 0% | 0% | 12.7 | 13.0 | 2% | 2% | 18.8 | 17.7 | -6% | -6% | 13.7 | 12.3 | -10% | -10% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.7 | 4% | 4% |
| 35 | December | 5.4 | 5.4 | 0% | 0% | 11.2 | 11.3 | 1% | 1% | 16.7 | 15.6 | -7% | -7% | 12.3 | 11.0 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.6 | 1% | 1% |
| 36 | January | 4.7 | 4.7 | 0% | 0% | 9.9 | 10.2 | 3% | 3% | 14.9 | 14.1 | -6% | -6% | 11.2 | 10.1 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 4.8 | 5.1 | 6% | 6% |
| 36 | February | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.2 | 2% | 2% | 12.2 | 11.5 | -6% | -6% | 9.3 | 8.4 | -9% | -9% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.5 | 4% | 4% |
| 36 | March | 4.2 | 4.2 | 0% | 0% | 8.8 | 8.7 | -1% | -1% | 13.4 | 12.6 | -6% | -6% | 10.4 | 9.8 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -4% | -4% |
| 36 | April | 17.8 | 17.7 | -1% | -1% | 39.0 | 38.6 | -1% | -1% | 47.7 | 48.5 | 2% | 2% | 35.2 | 40.1 | 14% | 14% | 10.7 | 6.2 | -42% | -42% | 20.7 | 19.8 | -5% | -5% |
| 36 | May | 60.4 | 60.5 | 0% | 0% | 131.6 | 132.4 | 1% | 1% | 161.9 | 166.5 | 3% | 3% | 112.2 | 112.8 | 1% | 1% | 41.0 | 33.1 | -19% | -19% | 68.4 | 67.6 | -1% | -1% |
| 36 | June | 37.8 | 37.9 | 0% | 0% | 80.2 | 80.9 | 1% | 1% | 101.4 | 102.3 | 1% | 1% | 74.5 | 74.1 | -1% | 0% | 24.7 | 18.8 | -24% | -12% | 42.0 | 41.7 | -1% | 0% |
| 36 | July | 7.0 | 7.1 | 1% | 0% | 14.4 | 14.7 | 2% | 1% | 21.3 | 20.0 | -6% | -3% | 15.8 | 14.3 | -10% | -5% | 4.0 | 1.0 | -75% | -22% | 6.9 | 7.1 | 2% | 1% |
| 36 | August | 5.9 | 5.9 | 0% | 0% | 12.2 | 12.0 | -1% | -1% | 18.1 | 16.5 | -9% | -9% | 13.5 | 12.1 | -10% | -10% | 3.6 | 0.7 | -81% | -81% | 5.9 | 5.7 | -4% | -4% |
| 36 | September | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.7 | -2% | -2% | 17.5 | 16.2 | -8% | -8% | 13.6 | 12.8 | -6% | -6% | 3.4 | 0.5 | -85% | -85% | 5.9 | 5.6 | -5% | -5% |
| 36 | October | 7.1 | 7.1 | 0% | 0% | 14.6 | 14.3 | -2% | -2% | 20.7 | 19.6 | -5% | -5% | 16.5 | 16.7 | 1% | 1% | 3.6 | 0.4 | -89% | -89% | 6.9 | 6.6 | -5% | -5% |
| 36 | November | 5.2 | 5.2 | 0% | 0% | 10.6 | 10.8 | 2% | 2% | 15.6 | 14.8 | -5% | -5% | 12.1 | 11.1 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 5.3 | 5.4 | 3% | 3% |
| 36 | December | 4.6 | 4.6 | 0% | 0% | 9.6 | 10.1 | 5% | 5% | 14.2 | 13.9 | -2% | -2% | 10.9 | 10.1 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.7 | 5.1 | 10% | 10% |
| 37 | January | 4.1 | 4.0 | -1% | -1% | 8.6 | 8.7 | 2% | 2% | 12.8 | 12.2 | -5% | -5% | 9.8 | 9.2 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 3% | 3% |
| 37 | February | 3.3 | 3.2 | -1% | -1% | 7.0 | 7.3 | 3% | 3% | 10.6 | 10.3 | -3% | -3% | 8.1 | 7.7 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 6% | 6% |
| 37 | March | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.3 | 1% | 1% | 10.8 | 10.4 | -3% | -3% | 8.1 | 7.9 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.7 | 1% | 1% |
| 37 | April | 29.7 | 29.6 | 0% | 0% | 65.5 | 65.5 | 0% | 0% | 78.2 | 81.6 | 4% | 4% | 53.7 | 60.1 | 12% | 12% | 19.5 | 13.9 | -29% | -29% | 35.2 | 34.2 | -3% | -3% |
| 37 | May | 59.6 | 59.6 | 0% | 0% | 129.4 | 130.5 | 1% | 1% | 159.1 | 163.4 | 3% | 3% | 112.0 | 112.7 | 1% | 1% | 39.7 | 32.1 | -19% | -19% | 67.1 | 66.6 | -1% | -1% |
| 37 | June | 37.5 | 37.6 | 0% | 0% | 79.2 | 79.7 | 1% | 0% | 100.0 | 100.6 | 1% | 0% | 73.8 | 73.4 | -1% | -1% | 24.1 | 18.4 | -24% | -12% | 41.3 | 40.9 | -1% | -1% |
| 37 | July | 6.9 | 7.0 | 1% | 1% | 14.1 | 14.2 | 1% | 0% | 20.9 | 19.4 | -7% | -4% | 15.5 | 14.0 | -10% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.7 | -1% | 0% |
| 37 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.7 | 16.1 | -9% | -9% | 13.2 | 11.9 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.6 | -2% | -2% |
| 37 | September | 4.9 | 4.9 | -1% | -1% | 10.0 | 9.9 | -1% | -1% | 15.2 | 13.7 | -9% | -9% | 11.6 | 10.4 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.9 | -1% | -1% |
| 37 | October | 4.9 | 4.9 | 1% | 1% | 9.9 | 9.8 | -1% | -1% | 15.1 | 13.8 | -8% | -8% | 11.8 | 10.9 | -8% | -8% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.6 | -3% | -3% |
| 37 | November | 4.2 | 4.1 | -1% | -1% | 8.6 | 9.1 | 6% | 6% | 13.1 | 12.7 | -3% | -3% | 10.2 | 9.4 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.3 | 4.8 | 13% | 13% |
| 37 | December | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.6 | 8% | 8% | 12.3 | 12.1 | -1% | -1% | 9.4 | 8.9 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.6 | 16% | 16% |
| 38 | January | 3.4 | 3.4 | 0% | 0% | 7.2 | 7.9 | 9% | 9% | 11.2 | 11.1 | -1% | -1% | 8.5 | 8.1 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.3 | 16% | 16% |
| 38 | February | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.2 | 3% | 3% | 9.3 | 8.9 | -4% | -4% | 7.0 | 6.8 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 38 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.5 | 4% | 4% | 9.5 | 9.3 | -2% | -2% | 7.0 | 7.0 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 7% | 7% |
| 38 | April | 56.9 | 56.8 | 0% | 0% | 126.1 | 126.7 | 1% | 1% | 151.2 | 157.9 | 4% | 4% | 103.0 | 109.7 | 6% | 6% | 39.6 | 31.5 | -20% | -20% | 68.4 | 67.3 | -2% | -2% |
| 38 | May | 56.9 | 57.1 | 0% | 0% | 121.8 | 123.0 | 1% | 1% | 151.2 | 154.1 | 2% | 2% | 110.2 | 110.8 | 1% | 1% | 36.5 | 29.4 | -19% | -19% | 62.3 | 61.9 | -1% | -1% |
| 38 | June | 66.6 | 66.6 | 0% | 0% | 141.7 | 142.7 | 1% | 1% | 178.8 | 179.1 | 0% | 0% | 131.7 | 129.7 | -2% | -2% | 44.2 | 36.1 | -18% | -17% | 74.7 | 74.0 | -1% | -1% |
| 38 | July | 11.6 | 11.8 | 1% | 1% | 23.4 | 23.6 | 1% | 1% | 32.5 | 31.0 | -5% | -4% | 26.0 | 25.2 | -3% | -3% | 5.5 | 2.0 | -64% | -25% | 11.0 | 10.9 | -1% | 0% |
| 38 | August | 6.6 | 6.6 | 0% | 0% | 13.5 | 13.4 | -1% | -1% | 20.0 | 18.4 | -8% | -8% | 15.0 | 13.5 | -10% | -10% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.2 | -3% | -3% |
| 38 | September | 5.5 | 5.4 | 0% | 0% | 11.1 | 11.1 | -1% | -1% | 16.7 | 15.2 | -9% | -9% | 12.6 | 11.3 | -10% | -10% | 3.4 | 0.7 | -80% | -80% | 5.5 | 5.4 | -1% | -1% |
| 38 | October | 9.1 | 9.0 | 0% | 0% | 19.0 | 18.8 | -1% | -1% | 26.3 | 25.2 | -4% | -4% | 21.7 | 23.0 | 6% | 6% | 4.2 | 0.7 | -83% | -83% | 9.2 | 8.8 | -4% | -4% |
| 38 | November | 5.4 | 5.3 | -1% | -1% | 11.1 | 11.2 | 1% | 1% | 16.4 | 15.2 | -7% | -7% | 12.3 | 11.1 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.6 | 1% | 1% |
| 38 | December | 4.8 | 4.9 | 0% | 0% | 10.1 | 10.1 | 0% | 0% | 15.0 | 13.9 | -8% | -8% | 11.2 | 10.2 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 4.9 | 4.9 | -1% | -1% |
| 39 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.5 | 12.5 | -8% | -8% | 10.1 | 9.3 | -8% | -8% | 2.8 | 0.2 | -93% | -93% | 4.4 | 4.4 | 0% | 0% |
| 39 | February | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.7 | 3% | 3% | 11.5 | 10.8 | -5% | -5% | 8.5 | 8.0 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.2 | 5% | 5% |
| 39 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.4 | 2% | 2% | 11.2 | 10.6 | -5% | -5% | 8.3 | 7.9 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.8 | 3% | 3% |
| 39 | April | 9.9 | 9.9 | 0% | 0% | 21.6 | 21.3 | -1% | -1% | 28.1 | 28.5 | 1% | 1% | 21.6 | 26.4 | 22% | 22% | 4.9 | 1.3 | -74% | -54% | 11.1 | 10.5 | -6% | -6% |
| 39 | May | 17.2 | 17.2 | 0% | 0% | 37.0 | 36.5 | -1% | -1% | 44.6 | 44.8 | 0% | 0% | 31.2 | 33.8 | 9% | 4% | 10.3 | 6.3 | -39% | -11% | 18.7 | 17.8 | -5% | -2% |
| 39 | June | 26.5 | 26.6 | 0% | 0% | 57.0 | 57.0 | 0% | 0% | 69.5 | 71.4 | 3% | 1% | 46.8 | 48.1 | 3% | 2% | 17.7 | 12.9 | -27% | -10% | 30.0 | 29.3 | -2% | -1% |
| 39 | July | 6.1 | 6.2 | 1% | 0% | 12.9 | 13.1 | 1% | 0% | 18.7 | 17.8 | -5% | -2% | 13.3 | 12.2 | -8% | -4% | 3.8 | 0.9 | -76% | -21% | 6.3 | 6.4 | 1% | 0% |
| 39 | August | 5.2 | 5.2 | 1% | 1% | 10.9 | 10.8 | 0% | 0% | 15.9 | 14.9 | -6% | -6% | 11.6 | 10.5 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.2 | -2% | -2% |
| 39 | September | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 14.0 | 13.1 | -6% | -6% | 10.6 | 9.8 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -2% | -2% |
| 39 | October | 4.3 | 4.3 | 0% | 0% | 9.1 | 8.9 | -1% | -1% | 13.4 | 12.6 | -6% | -6% | 10.6 | 9.7 | -8% | -8% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.4 | -3% | -3% |
| 39 | November | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.1 | 4% | 4% | 11.6 | 11.3 | -2% | -2% | 9.0 | 8.5 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.3 | 7% | 7% |

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| 39 | December | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.4 | 1% | 1% | 10.9 | 10.5 | -4% | -4% | 8.4 | 8.1 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 1% | 1% |
| 40 | January | 3.0 | 3.0 | 0% | 0% | 6.8 | 6.9 | 2% | 2% | 10.1 | 9.9 | -2% | -2% | 7.5 | 7.4 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 40 | February | 2.5 | 2.5 | -1% | -1% | 5.7 | 6.1 | 8% | 8% | 8.4 | 8.6 | 2% | 2% | 6.2 | 6.2 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.8 | 15% | 15% |
| 40 | March | 2.6 | 2.6 | 0% | 0% | 5.9 | 6.3 | 7% | 7% | 8.7 | 8.9 | 2% | 2% | 6.2 | 6.3 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.5 | 11% | 11% |
| 40 | April | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.6 | 0% | 0% | 12.1 | 12.4 | 2% | 1% | 9.6 | 11.6 | 21% | 13% | 2.2 | 0.0 | -100% | -33% | 4.4 | 4.2 | -4% | -1% |
| 40 | May | 72.9 | 72.8 | 0% | 0% | 161.3 | 162.0 | 0% | 0% | 193.0 | 201.2 | 4% | 4% | 131.3 | 137.1 | 4% | 4% | 49.3 | 40.2 | -19% | -19% | 84.8 | 83.4 | -2% | -2% |
| 40 | June | 56.5 | 56.6 | 0% | 0% | 120.2 | 121.4 | 1% | 1% | 149.5 | 151.7 | 1% | 1% | 109.1 | 109.1 | 0% | 0% | 37.1 | 29.9 | -19% | -15% | 63.2 | 62.9 | -1% | 0% |
| 40 | July | 6.6 | 6.7 | 2% | 1% | 13.1 | 13.4 | 2% | 1% | 19.5 | 18.2 | -7% | -3% | 14.8 | 13.3 | -10% | -5% | 3.4 | 0.7 | -79% | -19% | 6.0 | 6.1 | 3% | 1% |
| 40 | August | 5.6 | 5.6 | -1% | -1% | 11.1 | 11.0 | -1% | -1% | 16.8 | 15.1 | -10% | -10% | 12.9 | 11.6 | -10% | -10% | 3.1 | 0.5 | -84% | -84% | 5.1 | 5.0 | -3% | -3% |
| 40 | September | 5.2 | 5.3 | 0% | 0% | 10.4 | 10.2 | -2% | -2% | 15.7 | 14.2 | -10% | -10% | 12.5 | 11.4 | -8% | -8% | 3.0 | 0.3 | -90% | -90% | 4.9 | 4.7 | -4% | -4% |
| 40 | October | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.6 | -1% | -1% | 14.8 | 13.3 | -10% | -10% | 11.7 | 10.8 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.4 | -4% | -4% |
| 40 | November | 4.1 | 4.1 | 0% | 0% | 8.3 | 8.8 | 5% | 5% | 12.8 | 12.2 | -5% | -5% | 10.0 | 9.3 | -7% | -7% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.5 | 11% | 11% |
| 40 | December | 3.8 | 3.8 | -1% | -1% | 7.8 | 8.2 | 5% | 5% | 12.1 | 11.5 | -5% | -5% | 9.3 | 8.8 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.1 | 10% | 10% |
| 41 | January | 3.4 | 3.3 | -1% | -1% | 7.1 | 7.4 | 4% | 4% | 11.0 | 10.5 | -5% | -5% | 8.4 | 8.1 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 9% | 9% |
| 41 | February | 2.7 | 2.7 | 0% | 0% | 5.9 | 6.2 | 7% | 7% | 9.1 | 8.9 | -2% | -2% | 6.9 | 6.7 | -3% | -3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 41 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.3 | 3% | 3% | 9.3 | 9.0 | -4% | -4% | 6.9 | 6.8 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.3 | 5% | 5% |
| 41 | April | 30.7 | 30.7 | 0% | 0% | 68.2 | 68.1 | 0% | 0% | 81.1 | 84.9 | 5% | 5% | 55.8 | 63.2 | 13% | 13% | 20.1 | 14.6 | -27% | -27% | 36.8 | 35.6 | -3% | -3% |
| 41 | May | 63.7 | 63.8 | 0% | 0% | 138.3 | 139.1 | 1% | 1% | 169.7 | 173.9 | 2% | 2% | 120.0 | 120.9 | 1% | 1% | 42.3 | 34.5 | -18% | -18% | 71.7 | 70.8 | -1% | -1% |
| 41 | June | 36.5 | 36.6 | 0% | 0% | 76.8 | 77.3 | 1% | 0% | 97.2 | 97.3 | 0% | 0% | 72.1 | 71.7 | -1% | -1% | 23.2 | 17.8 | -23% | -11% | 40.0 | 39.4 | -1% | -1% |
| 41 | July | 6.6 | 6.7 | 1% | 1% | 13.5 | 13.5 | 1% | 0% | 20.1 | 18.5 | -8% | -4% | 15.0 | 13.6 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 6.3 | 0% | 0% |
| 41 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.2 | -1% | -1% | 17.1 | 15.4 | -10% | -10% | 12.9 | 11.6 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.3 | 5.2 | -2% | -2% |
| 41 | September | 8.6 | 8.6 | 0% | 0% | 18.0 | 17.8 | -1% | -1% | 25.0 | 24.8 | -1% | -1% | 20.8 | 22.1 | 6% | 6% | 4.0 | 0.6 | -85% | -85% | 9.0 | 8.6 | -5% | -5% |
| 41 | October | 18.5 | 18.4 | 0% | 0% | 39.1 | 39.1 | 0% | 0% | 48.5 | 48.6 | 0% | 0% | 36.3 | 37.6 | 4% | 4% | 10.9 | 6.7 | -38% | -38% | 19.5 | 19.2 | -2% | -2% |
| 41 | November | 5.8 | 5.8 | 0% | 0% | 12.2 | 13.0 | 6% | 6% | 17.9 | 17.4 | -3% | -3% | 13.1 | 11.9 | -10% | -10% | 3.7 | 0.9 | -76% | -76% | 6.1 | 6.9 | 13% | 13% |
| 41 | December | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.9 | 1% | 1% | 16.0 | 14.9 | -7% | -7% | 11.7 | 10.6 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.2 | 5.4 | 3% | 3% |
| 42 | January | 4.5 | 4.5 | 1% | 1% | 9.4 | 9.7 | 3% | 3% | 14.3 | 13.4 | -6% | -6% | 10.7 | 9.7 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 4.6 | 4.8 | 4% | 4% |
| 42 | February | 3.6 | 3.6 | -1% | -1% | 7.6 | 7.7 | 2% | 2% | 11.6 | 10.9 | -6% | -6% | 8.8 | 8.1 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.3 | 4% | 4% |
| 42 | March | 6.0 | 6.1 | 0% | 0% | 12.5 | 12.6 | 1% | 1% | 17.9 | 17.7 | -1% | -1% | 14.8 | 16.2 | 10% | 10% | 3.0 | 0.1 | -97% | -97% | 6.0 | 5.9 | -2% | -2% |
| 42 | April | 26.0 | 25.9 | 0% | 0% | 56.9 | 56.6 | -1% | -1% | 68.4 | 70.1 | 3% | 3% | 46.9 | 51.1 | 9% | 9% | 16.9 | 11.8 | -30% | -30% | 30.4 | 29.4 | -3% | -3% |
| 42 | May | 74.1 | 74.1 | 0% | 0% | 161.1 | 162.0 | 1% | 1% | 199.2 | 203.2 | 2% | 2% | 140.8 | 140.5 | 0% | 0% | 50.4 | 41.3 | -18% | -18% | 83.8 | 82.7 | -1% | -1% |
| 42 | June | 39.1 | 39.2 | 0% | 0% | 82.6 | 83.5 | 1% | 1% | 105.2 | 105.3 | 0% | 0% | 77.6 | 76.5 | -1% | -1% | 25.4 | 19.4 | -24% | -12% | 43.2 | 43.0 | 0% | 0% |
| 42 | July | 7.1 | 7.2 | 1% | 1% | 14.6 | 14.8 | 1% | 1% | 21.6 | 20.2 | -7% | -3% | 16.1 | 14.5 | -10% | -5% | 4.1 | 1.1 | -73% | -21% | 7.0 | 7.1 | 1% | 0% |
| 42 | August | 5.9 | 5.9 | 0% | 0% | 12.2 | 12.1 | -1% | -1% | 18.1 | 16.6 | -9% | -9% | 13.6 | 12.2 | -10% | -10% | 3.6 | 0.7 | -81% | -81% | 5.9 | 5.7 | -2% | -2% |
| 42 | September | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.7 | -2% | -2% | 17.6 | 16.2 | -8% | -8% | 13.7 | 13.0 | -5% | -5% | 3.4 | 0.5 | -85% | -85% | 5.9 | 5.6 | -5% | -5% |
| 42 | October | 17.9 | 17.8 | 0% | 0% | 38.3 | 38.2 | 0% | 0% | 48.0 | 48.2 | 1% | 1% | 37.1 | 39.7 | 7% | 7% | 10.0 | 5.6 | -44% | -44% | 19.3 | 18.8 | -3% | -3% |
| 42 | November | 5.9 | 5.9 | 0% | 0% | 12.3 | 12.6 | 2% | 2% | 18.1 | 17.2 | -5% | -5% | 13.3 | 12.1 | -9% | -9% | 3.7 | 0.8 | -78% | -78% | 6.1 | 6.4 | 4% | 4% |
| 42 | December | 5.2 | 5.3 | 1% | 1% | 10.9 | 10.9 | 1% | 1% | 16.2 | 15.1 | -7% | -7% | 11.9 | 10.9 | -9% | -9% | 3.4 | 0.6 | -82% | -82% | 5.3 | 5.3 | -1% | -1% |
| 43 | January | 4.6 | 4.6 | 0% | 0% | 9.6 | 10.0 | 4% | 4% | 14.5 | 13.9 | -5% | -5% | 10.9 | 10.0 | -9% | -9% | 3.0 | 0.3 | -90% | -90% | 4.7 | 5.0 | 7% | 7% |
| 43 | February | 3.8 | 3.8 | -1% | -1% | 8.1 | 8.4 | 5% | 5% | 12.3 | 11.9 | -3% | -3% | 9.3 | 8.6 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.7 | 9% | 9% |
| 43 | March | 3.6 | 3.6 | -1% | -1% | 7.8 | 8.1 | 4% | 4% | 11.9 | 11.5 | -3% | -3% | 8.9 | 8.5 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 43 | April | 23.4 | 23.4 | 0% | 0% | 51.5 | 51.6 | 0% | 0% | 61.9 | 64.5 | 4% | 4% | 43.6 | 49.3 | 13% | 13% | 14.9 | 9.9 | -34% | -34% | 27.5 | 26.8 | -2% | -2% |
| 43 | May | 73.1 | 73.1 | 0% | 0% | 159.0 | 160.2 | 1% | 1% | 196.1 | 201.1 | 3% | 3% | 137.6 | 137.9 | 0% | 0% | 49.6 | 40.6 | -18% | -18% | 82.8 | 81.9 | -1% | -1% |
| 43 | June | 66.1 | 66.1 | 0% | 0% | 140.7 | 141.9 | 1% | 1% | 177.4 | 178.3 | 1% | 1% | 130.3 | 128.3 | -1% | -1% | 44.2 | 35.9 | -19% | -17% | 74.3 | 73.8 | -1% | -1% |
| 43 | July | 7.2 | 7.3 | 2% | 1% | 14.4 | 15.1 | 5% | 2% | 21.6 | 20.5 | -5% | -3% | 16.2 | 14.5 | -11% | -6% | 3.9 | 1.0 | -74% | -21% | 6.7 | 7.2 | 8% | 2% |
| 43 | August | 5.9 | 5.9 | 1% | 1% | 12.0 | 11.9 | -1% | -1% | 18.1 | 16.4 | -9% | -9% | 13.6 | 12.2 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.6 | -3% | -3% |
| 43 | September | 5.0 | 5.0 | -1% | -1% | 10.1 | 10.0 | -1% | -1% | 15.4 | 14.0 | -9% | -9% | 11.9 | 10.7 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.9 | -1% | -1% |
| 43 | October | 5.0 | 5.0 | 1% | 1% | 10.0 | 9.9 | -1% | -1% | 15.3 | 14.1 | -8% | -8% | 12.0 | 11.1 | -8% | -8% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.6 | -3% | -3% |
| 43 | November | 4.3 | 4.2 | -1% | -1% | 8.6 | 8.9 | 4% | 4% | 13.3 | 12.5 | -6% | -6% | 10.4 | 9.7 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.6 | 8% | 8% |
| 43 | December | 3.9 | 3.9 | -1% | -1% | 8.0 | 8.4 | 5% | 5% | 12.5 | 11.9 | -5% | -5% | 9.5 | 9.0 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.3 | 10% | 10% |
| 44 | January | 3.5 | 3.4 | 0% | 0% | 7.3 | 7.3 | 1% | 1% | 11.4 | 10.6 | -7% | -7% | 8.6 | 8.3 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.6 | 0% | 0% |
| 44 | February | 2.8 | 2.8 | 0% | 0% | 6.0 | 6.8 | 12% | 12% | 9.5 | 9.5 | 1% | 1% | 7.1 | 6.9 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.2 | 24% | 24% |
| 44 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.2 | 1% | 1% | 9.6 | 9.1 | -5% | -5% | 7.1 | 7.1 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.2 | 1% | 1% |
| 44 | April | 29.4 | 29.3 | 0% | 0% | 65.2 | 64.9 | 0% | 0% | 77.7 | 81.1 | 4% | 4% | 53.7 | 60.9 | 14% | 14% | 19.1 | 13.7 | -28% | -28% | 35.0 | 33.7 | -4% | -4% |
| 44 | May | 65.3 | 65.4 | 0% | 0% | 141.9 | 142.8 | 1% | 1% | 174.4 | 178.7 | 3% | 3% | 122.9 | 123.8 | 1% | 1% | 43.5 | 35.5 | -18% | -18% | 73.6 | 72.8 | -1% | -1% |
| 44 | June | 14.7 | 14.9 | 1% | 0% | 30.0 | 30.3 | 1% | 0% | 39.2 | 38.7 | -1% | 0% | 30.4 | 30.7 | 1% | 0% | 7.8 | 4.2 | -46% | -7% | 14.9 | 14.7 | -1% | 0% |

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| 44 | July | 6.3 | 6.4 | 0% | 0% | 12.9 | 12.8 | -1% | 0% | 19.2 | 17.5 | -9% | -4% | 14.3 | 13.0 | -9% | -4% | 3.6 | 0.8 | -78% | -20% | 6.1 | 6.0 | -3% | -1% |
| 44 | August | 5.4 | 5.4 | -1% | -1% | 11.0 | 10.9 | -1% | -1% | 16.6 | 15.2 | -8% | -8% | 12.6 | 11.4 | -9% | -9% | 3.2 | 0.6 | -81% | -81% | 5.2 | 5.1 | -1% | -1% |
| 44 | September | 4.9 | 4.8 | 0% | 0% | 9.8 | 9.7 | -1% | -1% | 14.9 | 13.5 | -9% | -9% | 11.5 | 10.6 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -3% | -3% |
| 44 | October | 6.1 | 6.2 | 1% | 1% | 12.5 | 12.2 | -2% | -2% | 18.2 | 17.1 | -6% | -6% | 14.8 | 15.2 | 3% | 3% | 3.1 | 0.2 | -94% | -94% | 5.9 | 5.5 | -7% | -7% |
| 44 | November | 5.3 | 5.3 | 0% | 0% | 10.8 | 10.8 | 0% | 0% | 15.8 | 15.0 | -6% | -6% | 12.4 | 12.1 | -2% | -2% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.3 | -1% | -1% |
| 44 | December | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.6 | 1% | 1% | 14.0 | 13.2 | -6% | -6% | 10.7 | 10.2 | -5% | -5% | 2.7 | 0.1 | -96% | -96% | 4.6 | 4.7 | 2% | 2% |
| 45 | January | 3.9 | 3.9 | -1% | -1% | 8.3 | 8.8 | 6% | 6% | 12.4 | 12.2 | -2% | -2% | 9.4 | 9.0 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.7 | 12% | 12% |
| 45 | February | 3.2 | 3.1 | -1% | -1% | 6.8 | 7.0 | 3% | 3% | 10.2 | 9.9 | -3% | -3% | 7.7 | 7.5 | -2% | -2% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 5% | 5% |
| 45 | March | 3.2 | 3.1 | 0% | 0% | 7.0 | 7.4 | 7% | 7% | 10.4 | 10.5 | 1% | 1% | 7.8 | 7.7 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.0 | 13% | 13% |
| 45 | April | 16.1 | 15.9 | -1% | -1% | 35.7 | 35.2 | -2% | -2% | 43.5 | 44.5 | 2% | 2% | 31.4 | 37.8 | 20% | 20% | 9.4 | 5.1 | -45% | -45% | 19.0 | 18.0 | -6% | -6% |
| 45 | May | 38.8 | 38.9 | 0% | 0% | 84.0 | 84.1 | 0% | 0% | 101.1 | 104.5 | 3% | 3% | 67.5 | 69.6 | 3% | 3% | 25.6 | 19.7 | -23% | -16% | 43.3 | 42.3 | -2% | -2% |
| 45 | June | 66.5 | 66.5 | 0% | 0% | 143.7 | 144.5 | 1% | 1% | 178.1 | 181.3 | 2% | 2% | 128.9 | 128.4 | 0% | 0% | 45.7 | 37.3 | -18% | -17% | 76.9 | 75.9 | -1% | -1% |
| 45 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 14.5 | 3% | 1% | 20.7 | 19.6 | -5% | -3% | 15.4 | 14.0 | -9% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.9 | 5% | 1% |
| 45 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.6 | 16.0 | -9% | -9% | 13.3 | 12.0 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.6 | 5.5 | -2% | -2% |
| 45 | September | 5.4 | 5.4 | 0% | 0% | 11.0 | 10.8 | -2% | -2% | 16.5 | 15.0 | -9% | -9% | 12.9 | 12.0 | -7% | -7% | 3.2 | 0.4 | -88% | -88% | 5.4 | 5.1 | -5% | -5% |
| 45 | October | 22.7 | 22.6 | 0% | 0% | 48.9 | 48.8 | 0% | 0% | 60.5 | 61.2 | 1% | 1% | 45.4 | 48.6 | 7% | 7% | 13.3 | 8.5 | -36% | -36% | 24.8 | 24.2 | -3% | -3% |
| 45 | November | 6.0 | 6.0 | 1% | 1% | 12.3 | 12.7 | 3% | 3% | 18.1 | 17.3 | -4% | -4% | 13.5 | 12.3 | -8% | -8% | 3.6 | 0.7 | -80% | -80% | 6.1 | 6.5 | 6% | 6% |
| 45 | December | 5.3 | 5.3 | 0% | 0% | 10.9 | 11.1 | 2% | 2% | 16.3 | 15.3 | -6% | -6% | 12.1 | 11.0 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.5 | 3% | 3% |
| 46 | January | 4.6 | 4.7 | 0% | 0% | 9.6 | 10.2 | 6% | 6% | 14.5 | 14.0 | -3% | -3% | 11.0 | 10.1 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 5.2 | 11% | 11% |
| 46 | February | 3.7 | 3.7 | -1% | -1% | 7.8 | 8.1 | 5% | 5% | 11.9 | 11.4 | -4% | -4% | 9.0 | 8.4 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.6 | 9% | 9% |
| 46 | March | 3.7 | 3.6 | -1% | -1% | 7.8 | 8.1 | 4% | 4% | 12.0 | 11.5 | -4% | -4% | 9.1 | 8.6 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 7% | 7% |
| 46 | April | 34.0 | 34.0 | 0% | 0% | 75.0 | 74.8 | 0% | 0% | 90.4 | 93.5 | 3% | 3% | 61.9 | 67.4 | 9% | 9% | 23.0 | 16.9 | -26% | -26% | 40.3 | 39.0 | -3% | -3% |
| 46 | May | 57.7 | 57.7 | 0% | 0% | 124.9 | 125.6 | 1% | 1% | 154.6 | 157.9 | 2% | 2% | 110.7 | 111.1 | 0% | 0% | 38.3 | 30.9 | -19% | -19% | 64.6 | 63.8 | -1% | -1% |
| 46 | June | 30.7 | 30.7 | 0% | 0% | 64.5 | 64.8 | 1% | 0% | 82.2 | 82.2 | 0% | 0% | 61.0 | 60.7 | 0% | 0% | 19.4 | 14.2 | -27% | -11% | 33.4 | 33.0 | -1% | -1% |
| 46 | July | 6.8 | 6.9 | 1% | 0% | 14.0 | 14.1 | 0% | 0% | 20.8 | 19.3 | -7% | -3% | 15.4 | 14.0 | -9% | -5% | 3.9 | 1.0 | -74% | -21% | 6.7 | 6.7 | -1% | 0% |
| 46 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.6 | -1% | -1% | 17.5 | 15.9 | -9% | -9% | 13.2 | 11.9 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -3% | -3% |
| 46 | September | 4.8 | 4.9 | 1% | 1% | 9.9 | 9.9 | 0% | 0% | 15.0 | 13.8 | -8% | -8% | 11.5 | 10.4 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.8 | -1% | -1% |
| 46 | October | 21.7 | 21.6 | 0% | 0% | 46.9 | 47.0 | 0% | 0% | 58.1 | 59.1 | 2% | 2% | 43.2 | 46.7 | 8% | 8% | 12.8 | 8.1 | -37% | -37% | 24.0 | 23.5 | -2% | -2% |
| 46 | November | 5.6 | 5.6 | 0% | 0% | 11.6 | 12.1 | 4% | 4% | 17.3 | 16.5 | -4% | -4% | 12.7 | 11.6 | -9% | -9% | 3.4 | 0.6 | -82% | -82% | 5.8 | 6.2 | 7% | 7% |
| 46 | December | 5.0 | 5.0 | 0% | 0% | 10.3 | 11.0 | 6% | 6% | 15.5 | 15.0 | -3% | -3% | 11.5 | 10.5 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.0 | 5.6 | 12% | 12% |
| 47 | January | 4.4 | 4.4 | 0% | 0% | 9.1 | 9.4 | 4% | 4% | 13.9 | 13.2 | -5% | -5% | 10.5 | 9.6 | -8% | -8% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.7 | 7% | 7% |
| 47 | February | 3.6 | 3.6 | 0% | 0% | 7.6 | 7.8 | 3% | 3% | 11.6 | 11.1 | -5% | -5% | 8.9 | 8.3 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.3 | 6% | 6% |
| 47 | March | 3.4 | 3.4 | 0% | 0% | 7.4 | 7.6 | 3% | 3% | 11.3 | 10.8 | -5% | -5% | 8.6 | 8.2 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.9 | 4% | 4% |
| 47 | April | 29.7 | 29.7 | 0% | 0% | 65.5 | 65.2 | -1% | -1% | 78.7 | 81.5 | 3% | 3% | 54.3 | 60.0 | 11% | 11% | 19.7 | 14.1 | -29% | -29% | 35.1 | 33.8 | -4% | -4% |
| 47 | May | 67.9 | 68.0 | 0% | 0% | 147.5 | 148.6 | 1% | 1% | 182.1 | 186.5 | 2% | 2% | 129.5 | 129.8 | 0% | 0% | 45.6 | 37.3 | -18% | -18% | 76.6 | 75.9 | -1% | -1% |
| 47 | June | 58.2 | 58.2 | 0% | 0% | 123.8 | 125.0 | 1% | 1% | 156.3 | 157.2 | 1% | 1% | 114.9 | 113.3 | -1% | -1% | 38.6 | 31.1 | -19% | -15% | 65.2 | 64.9 | 0% | 0% |
| 47 | July | 7.0 | 7.1 | 2% | 1% | 14.1 | 14.6 | 4% | 1% | 21.3 | 19.9 | -6% | -3% | 15.8 | 14.2 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 7.0 | 5% | 2% |
| 47 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.6 | -1% | -1% | 17.7 | 16.0 | -9% | -9% | 13.3 | 12.0 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.4 | -2% | -2% |
| 47 | September | 4.9 | 4.9 | -1% | -1% | 9.9 | 9.8 | 0% | 0% | 15.1 | 13.7 | -9% | -9% | 11.7 | 10.5 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.8 | -1% | -1% |
| 47 | October | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 14.0 | 12.7 | -9% | -9% | 10.9 | 10.0 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.3 | -1% | -1% |
| 47 | November | 3.9 | 3.8 | -1% | -1% | 7.9 | 7.9 | 0% | 0% | 12.4 | 11.2 | -9% | -9% | 9.6 | 8.9 | -7% | -7% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 47 | December | 3.6 | 3.6 | -1% | -1% | 7.4 | 7.7 | 3% | 3% | 11.7 | 11.0 | -6% | -6% | 8.9 | 8.4 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 6% | 6% |
| 48 | January | 3.3 | 3.3 | 0% | 0% | 7.0 | 7.8 | 11% | 11% | 11.0 | 11.0 | 0% | 0% | 8.4 | 8.2 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.5 | 4.2 | 22% | 22% |
| 48 | February | 2.6 | 2.6 | -1% | -1% | 5.8 | 6.1 | 7% | 7% | 9.0 | 8.8 | -2% | -2% | 6.8 | 6.7 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 12% | 12% |
| 48 | March | 2.6 | 2.6 | -1% | -1% | 5.9 | 6.2 | 5% | 5% | 9.2 | 9.0 | -2% | -2% | 6.8 | 6.9 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 9% | 9% |
| 48 | April | 11.2 | 11.2 | 0% | 0% | 24.7 | 24.5 | -1% | -1% | 31.5 | 32.6 | 3% | 3% | 24.0 | 30.7 | 28% | 28% | 5.4 | 1.9 | -65% | -52% | 12.9 | 12.2 | -5% | -5% |
| 48 | May | 59.7 | 59.6 | 0% | 0% | 130.7 | 131.3 | 0% | 0% | 156.9 | 162.8 | 4% | 4% | 106.7 | 109.0 | 2% | 2% | 40.5 | 32.9 | -19% | -19% | 68.2 | 67.2 | -1% | -1% |
| 48 | June | 69.6 | 69.7 | 0% | 0% | 149.2 | 150.3 | 1% | 1% | 186.1 | 188.2 | 1% | 1% | 136.0 | 135.0 | -1% | -1% | 47.0 | 38.5 | -18% | -17% | 79.2 | 78.4 | -1% | -1% |
| 48 | July | 6.7 | 6.9 | 2% | 1% | 13.5 | 13.8 | 2% | 1% | 20.3 | 18.9 | -7% | -3% | 15.3 | 13.7 | -10% | -5% | 3.6 | 0.8 | -77% | -20% | 6.2 | 6.4 | 2% | 1% |
| 48 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.2 | -1% | -1% | 17.1 | 15.4 | -10% | -10% | 13.0 | 11.8 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.1 | -3% | -3% |
| 48 | September | 4.8 | 4.8 | 1% | 1% | 9.5 | 9.6 | 1% | 1% | 14.6 | 13.3 | -9% | -9% | 11.4 | 10.3 | -10% | -10% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.6 | -1% | -1% |
| 48 | October | 4.3 | 4.3 | 0% | 0% | 8.7 | 8.7 | 0% | 0% | 13.6 | 12.3 | -10% | -10% | 10.7 | 9.8 | -8% | -8% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | -1% | -1% |
| 48 | November | 4.1 | 4.0 | 0% | 0% | 8.2 | 8.3 | 2% | 2% | 12.7 | 11.7 | -8% | -8% | 9.9 | 9.4 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 48 | December | 3.7 | 3.7 | 0% | 0% | 7.6 | 7.8 | 3% | 3% | 11.8 | 11.2 | -5% | -5% | 9.1 | 8.7 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 5% | 5% |
| 49 | January | 3.2 | 3.2 | -1% | -1% | 6.8 | 7.6 | 12% | 12% | 10.7 | 10.6 | 0% | 0% | 8.2 | 7.9 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.1 | 22% | 22% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | February | 2.6 | 2.6 | -1% | -1% | 5.7 | 6.0 | 6% | 6% | 8.9 | 8.6 | -3% | -3% | 6.7 | 6.6 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.6 | 12% | 12% |
| 49 | March | 2.6 | 2.6 | -1% | -1% | 5.8 | 5.9 | 2% | 2% | 9.0 | 8.6 | -4% | -4% | 6.7 | 6.7 | 1% | 1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.1 | 4% | 4% |
| 49 | April | 22.8 | 22.7 | 0% | 0% | 50.3 | 50.6 | 1% | 1% | 59.9 | 63.3 | 6% | 6% | 42.8 | 50.3 | 17% | 17% | 14.1 | 9.4 | -33% | -33% | 26.8 | 26.2 | -2% | -2% |
| 49 | May | 61.8 | 61.8 | 0% | 0% | 134.5 | 135.2 | 1% | 1% | 164.1 | 168.8 | 3% | 3% | 114.0 | 115.3 | 1% | 1% | 41.4 | 33.7 | -19% | -19% | 69.9 | 68.8 | -2% | -2% |
| 49 | June | 61.9 | 61.9 | 0% | 0% | 132.0 | 133.2 | 1% | 1% | 165.6 | 167.1 | 1% | 1% | 121.5 | 120.4 | -1% | -1% | 41.3 | 33.5 | -19% | -16% | 69.7 | 69.3 | -1% | -1% |
| 49 | July | 6.7 | 6.8 | 2% | 1% | 13.4 | 13.8 | 3% | 1% | 20.3 | 18.9 | -7% | -3% | 15.3 | 13.7 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.2 | 6.5 | 4% | 1% |
| 49 | August | 5.6 | 5.6 | -1% | -1% | 11.3 | 11.1 | -2% | -2% | 17.1 | 15.3 | -10% | -10% | 13.0 | 11.7 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.2 | 5.1 | -2% | -2% |
| 49 | September | 4.7 | 4.7 | 0% | 0% | 9.5 | 9.4 | 0% | 0% | 14.6 | 13.2 | -10% | -10% | 11.4 | 10.3 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.5 | -1% | -1% |
| 49 | October | 4.3 | 4.3 | 0% | 0% | 8.7 | 8.6 | 0% | 0% | 13.5 | 12.2 | -10% | -10% | 10.7 | 9.7 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -1% | -1% |
| 49 | November | 3.9 | 3.9 | -1% | -1% | 7.8 | 7.8 | 0% | 0% | 12.3 | 11.2 | -9% | -9% | 9.6 | 9.0 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | -1% | -1% |
| 49 | December | 3.6 | 3.5 | -1% | -1% | 7.3 | 7.4 | 2% | 2% | 11.5 | 10.6 | -8% | -8% | 8.8 | 8.4 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.6 | 2% | 2% |
| 50 | January | 3.1 | 3.1 | -1% | -1% | 6.6 | 6.7 | 2% | 2% | 10.4 | 9.9 | -5% | -5% | 8.0 | 7.8 | -3% | -3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 50 | February | 2.5 | 2.5 | -2% | -2% | 5.5 | 5.7 | 3% | 3% | 8.6 | 8.2 | -5% | -5% | 6.6 | 6.5 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 6% | 6% |
| 50 | March | 2.5 | 2.5 | 0% | 0% | 5.6 | 6.0 | 7% | 7% | 8.8 | 8.7 | -1% | -1% | 6.5 | 6.6 | 1% | 1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.3 | 12% | 12% |
| 50 | April | 11.4 | 11.3 | 0% | 0% | 25.3 | 25.4 | 0% | 0% | 32.2 | 33.5 | 4% | 4% | 24.4 | 31.3 | 28% | 28% | 5.6 | 2.2 | -61% | -50% | 13.3 | 12.9 | -3% | -3% |
| 50 | May | 39.5 | 39.5 | 0% | 0% | 86.0 | 86.1 | 0% | 0% | 102.3 | 106.2 | 4% | 3% | 68.4 | 71.2 | 4% | 4% | 26.0 | 20.4 | -22% | -15% | 44.5 | 43.5 | -2% | -2% |
| 50 | June | 34.4 | 34.4 | 0% | 0% | 73.7 | 73.8 | 0% | 0% | 91.2 | 92.5 | 1% | 1% | 66.1 | 66.7 | 1% | 1% | 22.6 | 17.3 | -24% | -11% | 38.9 | 38.1 | -2% | -1% |
| 50 | July | 6.2 | 6.3 | 1% | 1% | 12.8 | 13.0 | 1% | 0% | 18.9 | 17.6 | -7% | -3% | 14.0 | 12.8 | -8% | -4% | 3.5 | 0.8 | -77% | -19% | 6.1 | 6.1 | 0% | 0% |
| 50 | August | 5.3 | 5.3 | 0% | 0% | 10.7 | 10.7 | -1% | -1% | 16.1 | 14.7 | -9% | -9% | 12.2 | 11.1 | -9% | -9% | 3.1 | 0.6 | -81% | -81% | 5.1 | 5.0 | -2% | -2% |
| 50 | September | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.7 | -1% | -1% | 14.8 | 13.5 | -9% | -9% | 11.5 | 10.7 | -7% | -7% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.6 | -4% | -4% |
| 50 | October | 7.2 | 7.2 | 0% | 0% | 14.8 | 14.6 | -2% | -2% | 20.8 | 20.1 | -4% | -4% | 17.1 | 18.3 | 7% | 7% | 3.3 | 0.2 | -94% | -94% | 7.1 | 6.6 | -6% | -6% |
| 50 | November | 4.7 | 4.6 | 0% | 0% | 9.6 | 10.1 | 5% | 5% | 14.1 | 13.7 | -3% | -3% | 11.0 | 10.2 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.8 | 5.2 | 9% | 9% |
| 50 | December | 4.1 | 4.1 | 0% | 0% | 8.6 | 9.4 | 9% | 9% | 12.8 | 12.9 | 0% | 0% | 9.9 | 9.3 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.3 | 5.0 | 18% | 18% |
| 51 | January | 3.6 | 3.6 | -1% | -1% | 7.7 | 8.2 | 7% | 7% | 11.5 | 11.5 | -1% | -1% | 8.9 | 8.5 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.4 | 14% | 14% |
| 51 | February | 3.0 | 3.0 | 0% | 0% | 6.6 | 6.9 | 5% | 5% | 9.8 | 9.7 | -2% | -2% | 7.5 | 7.4 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 8% | 8% |
| 51 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.8 | 5% | 5% | 9.7 | 9.6 | -1% | -1% | 7.3 | 7.3 | 0% | 0% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 51 | April | 34.5 | 34.4 | 0% | 0% | 76.3 | 76.4 | 0% | 0% | 90.7 | 95.0 | 5% | 5% | 61.3 | 68.1 | 11% | 11% | 23.5 | 17.4 | -26% | -26% | 41.1 | 40.0 | -3% | -3% |
| 51 | May | 102.5 | 102.4 | 0% | 0% | 221.9 | 223.7 | 1% | 1% | 273.8 | 279.5 | 2% | 2% | 196.6 | 195.8 | 0% | 0% | 68.7 | 57.4 | -16% | -16% | 115.1 | 114.2 | -1% | -1% |
| 51 | June | 58.5 | 58.6 | 0% | 0% | 123.8 | 125.1 | 1% | 1% | 156.7 | 157.0 | 0% | 0% | 115.9 | 114.0 | -2% | -2% | 38.4 | 30.9 | -20% | -15% | 64.9 | 64.7 | 0% | 0% |
| 51 | July | 7.0 | 7.1 | 2% | 1% | 13.9 | 14.4 | 3% | 1% | 21.1 | 19.6 | -7% | -4% | 16.0 | 14.3 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.8 | 5% | 2% |
| 51 | August | 5.8 | 5.8 | 0% | 0% | 11.6 | 11.5 | -1% | -1% | 17.6 | 15.8 | -10% | -10% | 13.4 | 12.1 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 51 | September | 4.9 | 4.8 | 0% | 0% | 9.7 | 9.7 | 0% | 0% | 15.0 | 13.5 | -10% | -10% | 11.7 | 10.5 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -1% | -1% |
| 51 | October | 19.1 | 19.1 | 0% | 0% | 41.1 | 41.1 | 0% | 0% | 51.3 | 51.8 | 1% | 1% | 39.5 | 42.9 | 8% | 8% | 10.8 | 6.4 | -41% | -41% | 20.8 | 20.3 | -3% | -3% |
| 51 | November | 5.5 | 5.5 | 0% | 0% | 11.3 | 11.6 | 2% | 2% | 17.0 | 16.0 | -6% | -6% | 12.5 | 11.4 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.5 | 5.8 | 4% | 4% |
| 51 | December | 4.9 | 4.9 | 0% | 0% | 10.0 | 10.2 | 2% | 2% | 15.3 | 14.2 | -8% | -8% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.9 | 3% | 3% |
| 52 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.1 | 3% | 3% | 13.8 | 12.8 | -7% | -7% | 10.3 | 9.5 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.5 | 5% | 5% |
| 52 | February | 3.4 | 3.4 | -1% | -1% | 7.2 | 7.6 | 6% | 6% | 11.2 | 10.7 | -4% | -4% | 8.5 | 7.9 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.3 | 12% | 12% |
| 52 | March | 3.4 | 3.3 | 0% | 0% | 7.2 | 7.6 | 6% | 6% | 11.3 | 10.9 | -4% | -4% | 8.5 | 8.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.0 | 11% | 11% |
| 52 | April | 17.5 | 17.4 | -1% | -1% | 38.4 | 38.0 | -1% | -1% | 46.9 | 47.9 | 2% | 2% | 34.4 | 40.0 | 16% | 16% | 10.4 | 6.1 | -42% | -42% | 20.4 | 19.4 | -5% | -5% |
| 52 | May | 81.4 | 81.4 | 0% | 0% | 177.4 | 178.7 | 1% | 1% | 217.9 | 224.1 | 3% | 3% | 151.9 | 152.5 | 0% | 0% | 55.5 | 45.9 | -17% | -17% | 92.5 | 91.5 | -1% | -1% |
| 52 | June | 33.6 | 33.7 | 0% | 0% | 70.5 | 71.2 | 1% | 1% | 90.0 | 90.0 | 0% | 0% | 66.5 | 66.1 | -1% | -1% | 21.3 | 16.0 | -25% | -11% | 36.5 | 36.3 | -1% | 0% |
| 52 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 13.9 | 2% | 1% | 20.5 | 19.0 | -7% | -3% | 15.2 | 13.8 | -9% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.6 | 2% | 1% |
| 52 | August | 5.6 | 5.6 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.2 | 15.6 | -9% | -9% | 13.0 | 11.8 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 52 | September | 4.7 | 4.7 | 0% | 0% | 9.6 | 9.6 | 0% | 0% | 14.7 | 13.3 | -9% | -9% | 11.3 | 10.3 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -1% | -1% |
| 52 | October | 5.5 | 5.5 | 0% | 0% | 11.2 | 11.0 | -2% | -2% | 16.8 | 15.6 | -7% | -7% | 13.6 | 13.5 | 0% | 0% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.0 | -5% | -5% |
| 52 | November | 4.4 | 4.4 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.5 | 12.4 | -8% | -8% | 10.5 | 9.8 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.4 | 0% | 0% |
| 52 | December | 3.9 | 3.9 | -1% | -1% | 8.1 | 8.4 | 4% | 4% | 12.5 | 11.8 | -5% | -5% | 9.5 | 9.1 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 7% | 7% |
| 53 | January | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 11.3 | 10.7 | -5% | -5% | 8.5 | 8.3 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.9 | 5% | 5% |
| 53 | February | 2.8 | 2.7 | -1% | -1% | 6.0 | 6.3 | 5% | 5% | 9.3 | 9.0 | -3% | -3% | 7.1 | 7.0 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 53 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.3 | 2% | 2% | 9.5 | 9.1 | -4% | -4% | 7.0 | 7.1 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 3% | 3% |
| 53 | April | 9.9 | 9.9 | 0% | 0% | 21.7 | 21.7 | 0% | 0% | 28.1 | 29.2 | 4% | 4% | 21.7 | 27.8 | 28% | 28% | 4.6 | 1.2 | -74% | -50% | 11.2 | 10.8 | -4% | -4% |
| 53 | May | 65.5 | 65.5 | 0% | 0% | 143.8 | 144.1 | 0% | 0% | 172.8 | 178.8 | 3% | 3% | 117.6 | 120.2 | 2% | 2% | 44.8 | 36.6 | -18% | -18% | 75.3 | 73.8 | -2% | -2% |
| 53 | June | 32.5 | 32.6 | 0% | 0% | 68.5 | 69.2 | 1% | 1% | 86.0 | 87.0 | 1% | 1% | 63.2 | 63.7 | 1% | 1% | 20.7 | 15.6 | -25% | -10% | 35.7 | 35.5 | 0% | 0% |
| 53 | July | 6.5 | 6.6 | 1% | 1% | 13.3 | 13.5 | 2% | 1% | 19.7 | 18.4 | -7% | -3% | 14.6 | 13.4 | -8% | -4% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.4 | 2% | 0% |
| 53 | August | 5.5 | 5.5 | -1% | -1% | 11.1 | 11.0 | -1% | -1% | 16.8 | 15.2 | -10% | -10% | 12.7 | 11.7 | -8% | -8% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.1 | -2% | -2% |

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| 53 | September | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.7 | -1% | -1% | 14.8 | 13.4 | -9% | -9% | 11.5 | 10.5 | -8% | -8% | 2.9 | 0.4 | -86% | -86% | 4.8 | 4.6 | -3% | -3% |
| 53 | October | 4.8 | 4.9 | 0% | 0% | 9.7 | 9.6 | -1% | -1% | 14.8 | 13.6 | -8% | -8% | 11.7 | 11.0 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.6 | 4.4 | -4% | -4% |
| 53 | November | 4.1 | 4.1 | -2% | -2% | 8.4 | 8.7 | 3% | 3% | 12.8 | 12.1 | -6% | -6% | 10.0 | 9.4 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.4 | 8% | 8% |
| 53 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 7.9 | 2% | 2% | 11.9 | 11.2 | -6% | -6% | 9.1 | 8.8 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 54 | January | 3.3 | 3.2 | -1% | -1% | 7.0 | 7.6 | 8% | 8% | 10.8 | 10.6 | -2% | -2% | 8.3 | 8.1 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 4.1 | 15% | 15% |
| 54 | February | 2.7 | 2.6 | -1% | -1% | 5.8 | 6.1 | 6% | 6% | 8.9 | 8.7 | -2% | -2% | 6.8 | 6.8 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 10% | 10% |
| 54 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.2 | 5% | 5% | 9.1 | 9.0 | -2% | -2% | 6.8 | 6.9 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.4 | 8% | 8% |
| 54 | April | 24.6 | 24.4 | 0% | 0% | 54.6 | 54.4 | 0% | 0% | 64.6 | 67.9 | 5% | 5% | 45.4 | 52.9 | 16% | 16% | 15.4 | 10.5 | -32% | -32% | 29.3 | 28.2 | -4% | -4% |
| 54 | May | 58.4 | 58.5 | 0% | 0% | 127.0 | 128.0 | 1% | 1% | 155.2 | 159.7 | 3% | 3% | 107.7 | 109.0 | 1% | 1% | 38.9 | 31.6 | -19% | -19% | 65.9 | 65.2 | -1% | -1% |
| 54 | June | 72.6 | 72.6 | 0% | 0% | 155.3 | 156.3 | 1% | 1% | 194.4 | 196.0 | 1% | 1% | 142.6 | 141.1 | -1% | -1% | 48.9 | 40.1 | -18% | -18% | 82.3 | 81.4 | -1% | -1% |
| 54 | July | 6.8 | 7.0 | 2% | 1% | 13.7 | 14.3 | 5% | 2% | 20.7 | 19.5 | -6% | -3% | 15.6 | 14.0 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.9 | 8% | 2% |
| 54 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.3 | 15.6 | -10% | -10% | 13.2 | 11.9 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.2 | -2% | -2% |
| 54 | September | 21.7 | 21.7 | 0% | 0% | 46.2 | 46.2 | 0% | 0% | 58.1 | 58.1 | 0% | 0% | 44.2 | 46.7 | 6% | 6% | 13.0 | 8.4 | -35% | -35% | 24.0 | 23.4 | -3% | -3% |
| 54 | October | 18.6 | 18.7 | 0% | 0% | 38.9 | 39.2 | 1% | 1% | 50.4 | 50.1 | -1% | -1% | 37.3 | 37.7 | 1% | 1% | 10.8 | 6.7 | -38% | -38% | 19.3 | 19.1 | -1% | -1% |
| 54 | November | 6.0 | 6.1 | 0% | 0% | 12.6 | 12.7 | 1% | 1% | 18.7 | 17.5 | -7% | -7% | 13.6 | 12.4 | -9% | -9% | 3.8 | 0.9 | -76% | -76% | 6.3 | 6.4 | 1% | 1% |
| 54 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 16.6 | 15.2 | -8% | -8% | 12.2 | 11.1 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.3 | 0% | 0% |
| 55 | January | 4.6 | 4.7 | 1% | 1% | 9.6 | 9.8 | 3% | 3% | 14.7 | 13.7 | -7% | -7% | 11.1 | 10.1 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 4.7 | 4.8 | 3% | 3% |
| 55 | February | 3.9 | 3.8 | -1% | -1% | 8.0 | 8.3 | 4% | 4% | 12.4 | 11.8 | -5% | -5% | 9.5 | 8.8 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.5 | 8% | 8% |
| 55 | March | 3.6 | 3.6 | -1% | -1% | 7.7 | 8.2 | 6% | 6% | 12.0 | 11.7 | -3% | -3% | 9.1 | 8.6 | -6% | -6% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.3 | 13% | 13% |
| 55 | April | 21.2 | 21.1 | 0% | 0% | 46.8 | 46.5 | -1% | -1% | 56.5 | 58.4 | 3% | 3% | 40.8 | 46.2 | 13% | 13% | 13.4 | 8.6 | -36% | -36% | 24.9 | 24.0 | -4% | -4% |
| 55 | May | 54.5 | 54.6 | 0% | 0% | 118.5 | 119.3 | 1% | 1% | 146.3 | 150.1 | 3% | 3% | 101.6 | 102.3 | 1% | 1% | 36.8 | 29.6 | -19% | -19% | 61.5 | 60.8 | -1% | -1% |
| 55 | June | 29.8 | 29.8 | 0% | 0% | 62.9 | 63.0 | 0% | 0% | 80.0 | 80.1 | 0% | 0% | 59.0 | 59.5 | 1% | 1% | 19.0 | 14.0 | -26% | -10% | 32.8 | 32.1 | -2% | -1% |
| 55 | July | 6.7 | 6.7 | 1% | 0% | 13.8 | 13.9 | 1% | 0% | 20.4 | 19.0 | -7% | -3% | 15.0 | 13.7 | -8% | -4% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.6 | 0% | 0% |
| 55 | August | 5.5 | 5.6 | 1% | 1% | 11.4 | 11.4 | -1% | -1% | 17.2 | 15.7 | -9% | -9% | 12.9 | 11.7 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.4 | -3% | -3% |
| 55 | September | 4.7 | 4.7 | 0% | 0% | 9.7 | 9.6 | 0% | 0% | 14.7 | 13.4 | -9% | -9% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 55 | October | 5.4 | 5.4 | 0% | 0% | 11.1 | 10.9 | -2% | -2% | 16.5 | 15.4 | -7% | -7% | 13.2 | 13.1 | -1% | -1% | 3.0 | 0.2 | -93% | -93% | 5.2 | 5.0 | -5% | -5% |
| 55 | November | 4.4 | 4.3 | 0% | 0% | 8.9 | 9.3 | 5% | 5% | 13.4 | 13.0 | -4% | -4% | 10.5 | 9.8 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.9 | 10% | 10% |
| 55 | December | 3.9 | 3.8 | -1% | -1% | 8.1 | 8.1 | 0% | 0% | 12.4 | 11.6 | -6% | -6% | 9.4 | 9.0 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.0 | 0% | 0% |
| 56 | January | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.4 | 1% | 1% | 11.2 | 10.6 | -5% | -5% | 8.6 | 8.3 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 2% | 2% |
| 56 | February | 2.8 | 2.8 | 0% | 0% | 6.1 | 6.5 | 8% | 8% | 9.3 | 9.2 | 0% | 0% | 7.0 | 7.0 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.9 | 14% | 14% |
| 56 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.7 | 7% | 7% | 9.4 | 9.5 | 1% | 1% | 7.0 | 7.1 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.7 | 13% | 13% |
| 56 | April | 14.4 | 14.3 | -1% | -1% | 31.8 | 31.7 | 0% | 0% | 39.2 | 40.8 | 4% | 4% | 28.9 | 35.7 | 23% | 23% | 7.9 | 4.0 | -50% | -50% | 16.7 | 16.2 | -3% | -3% |
| 56 | May | 72.3 | 72.3 | 0% | 0% | 158.0 | 158.9 | 1% | 1% | 191.2 | 197.8 | 3% | 3% | 131.7 | 133.3 | 1% | 1% | 49.2 | 40.5 | -18% | -18% | 82.5 | 81.3 | -1% | -1% |
| 56 | June | 50.9 | 51.0 | 0% | 0% | 108.1 | 108.9 | 1% | 1% | 135.5 | 136.6 | 1% | 1% | 99.6 | 99.4 | 0% | 0% | 33.5 | 26.6 | -21% | -14% | 56.8 | 56.2 | -1% | -1% |
| 56 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 14.1 | 4% | 1% | 20.4 | 19.4 | -5% | -2% | 15.3 | 13.9 | -9% | -5% | 3.7 | 0.8 | -78% | -21% | 6.4 | 6.7 | 6% | 2% |
| 56 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.2 | 15.6 | -10% | -10% | 13.1 | 11.8 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.3 | 5.2 | -2% | -2% |
| 56 | September | 8.0 | 7.9 | 0% | 0% | 16.4 | 16.2 | -1% | -1% | 23.0 | 21.9 | -5% | -5% | 18.9 | 19.9 | 5% | 5% | 3.7 | 0.4 | -89% | -89% | 8.0 | 7.6 | -5% | -5% |
| 56 | October | 15.6 | 15.6 | 0% | 0% | 32.9 | 32.8 | 0% | 0% | 41.5 | 40.9 | -1% | -1% | 31.9 | 33.6 | 5% | 5% | 8.6 | 4.6 | -46% | -46% | 16.3 | 15.9 | -3% | -3% |
| 56 | November | 5.8 | 5.8 | 0% | 0% | 12.0 | 12.4 | 3% | 3% | 17.6 | 16.7 | -5% | -5% | 12.9 | 11.8 | -9% | -9% | 3.7 | 0.9 | -76% | -76% | 6.0 | 6.4 | 6% | 6% |
| 56 | December | 5.1 | 5.1 | 0% | 0% | 10.6 | 10.8 | 2% | 2% | 15.8 | 14.9 | -6% | -6% | 11.6 | 10.7 | -8% | -8% | 3.3 | 0.6 | -82% | -82% | 5.2 | 5.4 | 4% | 4% |
| 57 | January | 4.5 | 4.5 | 0% | 0% | 9.3 | 9.6 | 3% | 3% | 14.1 | 13.3 | -6% | -6% | 10.6 | 9.8 | -8% | -8% | 2.9 | 0.4 | -86% | -86% | 4.6 | 4.8 | 4% | 4% |
| 57 | February | 3.6 | 3.6 | -2% | -2% | 7.6 | 7.9 | 4% | 4% | 11.5 | 11.0 | -5% | -5% | 8.7 | 8.1 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.5 | 8% | 8% |
| 57 | March | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.8 | 4% | 4% | 11.6 | 11.1 | -4% | -4% | 8.7 | 8.3 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.1 | 7% | 7% |
| 57 | April | 31.7 | 31.6 | 0% | 0% | 69.9 | 69.7 | 0% | 0% | 84.1 | 87.2 | 4% | 4% | 57.4 | 63.1 | 10% | 10% | 21.4 | 15.6 | -27% | -27% | 37.6 | 36.4 | -3% | -3% |
| 57 | May | 55.9 | 55.9 | 0% | 0% | 121.2 | 122.1 | 1% | 1% | 149.7 | 153.5 | 2% | 2% | 106.1 | 106.7 | 1% | 1% | 37.2 | 29.9 | -20% | -20% | 62.8 | 62.2 | -1% | -1% |
| 57 | June | 35.7 | 35.8 | 0% | 0% | 75.6 | 75.9 | 0% | 0% | 95.8 | 96.1 | 0% | 0% | 70.6 | 71.1 | 1% | 1% | 23.1 | 17.5 | -24% | -11% | 39.4 | 38.9 | -1% | -1% |
| 57 | July | 6.8 | 6.8 | 1% | 0% | 13.9 | 14.1 | 1% | 0% | 20.7 | 19.3 | -7% | -3% | 15.3 | 13.9 | -9% | -4% | 3.8 | 0.9 | -77% | -21% | 6.6 | 6.7 | 1% | 0% |
| 57 | August | 5.6 | 5.6 | 0% | 0% | 11.6 | 11.5 | -1% | -1% | 17.4 | 15.8 | -9% | -9% | 13.1 | 11.9 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.6 | 5.4 | -2% | -2% |
| 57 | September | 4.8 | 4.8 | -1% | -1% | 9.8 | 9.7 | -1% | -1% | 14.9 | 13.5 | -9% | -9% | 11.4 | 10.4 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 57 | October | 35.0 | 35.0 | 0% | 0% | 76.2 | 76.7 | 1% | 1% | 94.1 | 96.4 | 2% | 2% | 67.5 | 70.9 | 5% | 5% | 22.5 | 16.5 | -27% | -27% | 39.3 | 38.8 | -1% | -1% |
| 57 | November | 5.9 | 5.9 | 1% | 1% | 12.1 | 12.9 | 7% | 7% | 18.1 | 17.6 | -3% | -3% | 13.3 | 12.2 | -8% | -8% | 3.4 | 0.7 | -79% | -79% | 5.9 | 6.7 | 13% | 13% |
| 57 | December | 5.2 | 5.2 | -1% | -1% | 10.7 | 10.8 | 1% | 1% | 16.2 | 14.9 | -8% | -8% | 12.1 | 11.0 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.1 | 5.2 | 1% | 1% |
| 58 | January | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.5 | 1% | 1% | 14.4 | 13.3 | -8% | -8% | 11.0 | 10.1 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.6 | 1% | 1% |
| 58 | February | 4.1 | 4.1 | 0% | 0% | 8.4 | 8.6 | 3% | 3% | 12.8 | 12.2 | -5% | -5% | 10.0 | 9.5 | -5% | -5% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.7 | 5% | 5% |
| 58 | March | 4.0 | 3.9 | -1% | -1% | 8.2 | 8.4 | 3% | 3% | 12.6 | 12.0 | -5% | -5% | 9.8 | 9.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |

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| 58 | April | 13.2 | 13.2 | -1% | -1% | 29.0 | 28.8 | -1% | -1% | 36.5 | 37.2 | 2% | 2% | 28.0 | 33.0 | 18% | 18% | 7.1 | 3.1 | -56% | -56% | 15.2 | 14.6 | -4% | -4% |
| 58 | May | 66.8 | 66.8 | 0% | 0% | 145.7 | 146.3 | 0% | 0% | 177.8 | 182.9 | 3% | 3% | 123.6 | 124.8 | 1% | 1% | 45.6 | 37.2 | -18% | -18% | 75.9 | 74.8 | -2% | -2% |
| 58 | June | 61.2 | 61.2 | 0% | 0% | 130.6 | 131.8 | 1% | 1% | 164.1 | 165.6 | 1% | 1% | 120.3 | 122.9 | 2% | 2% | 41.0 | 33.1 | -19% | -16% | 69.0 | 68.7 | 0% | 0% |
| 58 | July | 7.1 | 7.2 | 1% | 1% | 14.4 | 14.8 | 3% | 1% | 21.4 | 20.1 | -6% | -3% | 16.0 | 14.6 | -9% | -5% | 3.9 | 0.9 | -77% | -22% | 6.7 | 7.1 | 5% | 1% |
| 58 | August | 5.9 | 5.9 | 0% | 0% | 11.9 | 11.9 | -1% | -1% | 17.9 | 16.3 | -9% | -9% | 13.5 | 12.2 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.5 | -2% | -2% |
| 58 | September | 5.0 | 4.9 | -1% | -1% | 10.1 | 10.0 | -1% | -1% | 15.3 | 13.9 | -9% | -9% | 11.9 | 10.8 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.8 | -2% | -2% |
| 58 | October | 5.3 | 5.4 | 0% | 0% | 10.8 | 10.7 | -1% | -1% | 16.3 | 15.2 | -7% | -7% | 13.0 | 12.6 | -3% | -3% | 3.0 | 0.2 | -93% | -93% | 5.1 | 4.9 | -5% | -5% |
| 58 | November | 4.5 | 4.5 | 0% | 0% | 9.1 | 9.3 | 3% | 3% | 13.8 | 13.0 | -6% | -6% | 10.8 | 10.1 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.5 | 4.7 | 6% | 6% |
| 58 | December | 4.0 | 4.0 | -1% | -1% | 8.3 | 8.4 | 0% | 0% | 12.8 | 11.8 | -8% | -8% | 9.7 | 9.3 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.1 | 0% | 0% |
| 59 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.1 | 7% | 7% | 11.6 | 11.3 | -3% | -3% | 8.8 | 8.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.3 | 14% | 14% |
| 59 | February | 3.0 | 2.9 | 0% | 0% | 6.4 | 6.5 | 1% | 1% | 9.9 | 9.3 | -6% | -6% | 7.5 | 7.4 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 1% | 1% |
| 59 | March | 2.9 | 2.8 | -1% | -1% | 6.3 | 6.7 | 6% | 6% | 9.8 | 9.6 | -2% | -2% | 7.3 | 7.3 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 11% | 11% |
| 59 | April | 4.9 | 4.9 | 0% | 0% | 10.3 | 10.4 | 1% | 0% | 14.7 | 15.3 | 4% | 2% | 12.3 | 15.0 | 23% | 18% | 2.5 | 0.0 | -100% | -36% | 5.1 | 5.0 | -3% | -1% |
| 59 | May | 42.8 | 42.6 | 0% | 0% | 94.3 | 94.1 | 0% | 0% | 112.2 | 116.4 | 4% | 4% | 74.9 | 80.7 | 8% | 8% | 27.8 | 21.4 | -23% | -17% | 49.3 | 47.8 | -3% | -3% |
| 59 | June | 78.3 | 78.3 | 0% | 0% | 169.1 | 170.5 | 1% | 1% | 209.1 | 213.2 | 2% | 2% | 151.0 | 150.7 | 0% | 0% | 53.7 | 44.3 | -18% | -18% | 90.4 | 89.7 | -1% | -1% |
| 59 | July | 6.7 | 6.9 | 2% | 1% | 13.4 | 13.9 | 4% | 1% | 20.1 | 18.9 | -6% | -3% | 15.0 | 13.7 | -9% | -5% | 3.5 | 0.8 | -77% | -19% | 6.1 | 6.5 | 6% | 2% |
| 59 | August | 5.7 | 5.7 | -1% | -1% | 11.4 | 11.2 | -1% | -1% | 17.2 | 15.4 | -10% | -10% | 13.0 | 11.9 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.3 | 5.1 | -3% | -3% |
| 59 | September | 4.9 | 4.9 | 0% | 0% | 9.7 | 9.7 | -1% | -1% | 14.9 | 13.4 | -10% | -10% | 11.7 | 10.7 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -2% | -2% |
| 59 | October | 4.4 | 4.5 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.8 | 12.5 | -10% | -10% | 10.9 | 10.0 | -8% | -8% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.1 | -2% | -2% |
| 59 | November | 3.9 | 3.8 | -1% | -1% | 7.8 | 8.2 | 4% | 4% | 12.2 | 11.7 | -4% | -4% | 9.5 | 8.9 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.2 | 9% | 9% |
| 59 | December | 3.6 | 3.6 | 0% | 0% | 7.4 | 8.5 | 15% | 15% | 11.6 | 11.6 | 1% | 1% | 8.8 | 8.4 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.7 | 30% | 30% |
| 60 | January | 3.1 | 3.1 | -1% | -1% | 6.7 | 7.5 | 13% | 13% | 10.5 | 10.5 | 0% | 0% | 8.0 | 7.8 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.2 | 24% | 24% |
| 60 | February | 2.5 | 2.5 | -1% | -1% | 5.5 | 5.7 | 2% | 2% | 8.7 | 8.2 | -6% | -6% | 6.6 | 6.5 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 4% | 4% |
| 60 | March | 2.6 | 2.5 | -1% | -1% | 5.7 | 5.7 | 1% | 1% | 8.8 | 8.4 | -6% | -6% | 6.5 | 6.7 | 2% | 2% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.0 | 0% | 0% |
| 60 | April | 42.2 | 42.1 | 0% | 0% | 93.4 | 94.4 | 1% | 1% | 111.4 | 117.4 | 5% | 5% | 75.5 | 83.0 | 10% | 10% | 28.7 | 22.1 | -23% | -23% | 50.4 | 50.1 | -1% | -1% |
| 60 | May | 68.3 | 68.4 | 0% | 0% | 147.4 | 148.6 | 1% | 1% | 181.9 | 185.8 | 2% | 2% | 131.4 | 132.0 | 1% | 1% | 44.8 | 36.7 | -18% | -18% | 76.0 | 75.4 | -1% | -1% |
| 60 | June | 94.6 | 94.6 | 0% | 0% | 201.7 | 203.3 | 1% | 1% | 253.5 | 254.5 | 0% | 0% | 187.0 | 189.6 | 1% | 1% | 63.6 | 53.0 | -17% | -17% | 106.7 | 105.9 | -1% | -1% |
| 60 | July | 12.9 | 13.1 | 2% | 1% | 25.9 | 26.4 | 2% | 1% | 35.5 | 34.2 | -4% | -3% | 28.6 | 28.1 | -2% | -2% | 6.2 | 2.7 | -56% | -25% | 12.1 | 12.3 | 1% | 1% |
| 60 | August | 6.6 | 6.6 | 1% | 1% | 13.4 | 13.2 | -1% | -1% | 19.9 | 18.1 | -9% | -9% | 15.1 | 13.7 | -9% | -9% | 3.8 | 0.9 | -76% | -76% | 6.3 | 6.1 | -4% | -4% |
| 60 | September | 6.7 | 6.7 | 0% | 0% | 13.6 | 13.4 | -2% | -2% | 19.9 | 18.4 | -7% | -7% | 15.5 | 15.2 | -3% | -3% | 3.8 | 0.7 | -82% | -82% | 6.7 | 6.4 | -5% | -5% |
| 60 | October | 5.6 | 5.5 | -1% | -1% | 11.3 | 11.1 | -1% | -1% | 16.9 | 15.3 | -9% | -9% | 12.9 | 11.8 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.2 | -2% | -2% |
| 60 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 9.8 | 2% | 2% | 14.6 | 13.6 | -7% | -7% | 11.3 | 10.4 | -8% | -8% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.8 | 3% | 3% |
| 60 | December | 4.3 | 4.3 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.7 | 12.5 | -8% | -8% | 10.5 | 9.8 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.3 | 0% | 0% |
| 61 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.4 | 6% | 6% | 12.4 | 11.9 | -5% | -5% | 9.4 | 8.9 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.3 | 11% | 11% |
| 61 | February | 3.1 | 3.1 | 0% | 0% | 6.6 | 6.7 | 2% | 2% | 10.3 | 9.6 | -6% | -6% | 7.7 | 7.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 2% | 2% |
| 61 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 7.0 | 5% | 5% | 10.4 | 10.1 | -3% | -3% | 7.8 | 7.7 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 61 | April | 8.0 | 8.0 | 0% | 0% | 17.0 | 16.6 | -2% | -2% | 23.0 | 23.3 | 1% | 1% | 19.0 | 23.7 | 25% | 25% | 3.3 | 0.0 | -100% | -48% | 8.5 | 7.8 | -8% | -6% |
| 61 | May | 35.6 | 35.6 | 0% | 0% | 78.0 | 77.7 | 0% | 0% | 93.0 | 95.9 | 3% | 2% | 61.4 | 65.3 | 6% | 6% | 23.7 | 18.0 | -24% | -15% | 40.5 | 39.2 | -3% | -3% |
| 61 | June | 22.2 | 22.3 | 1% | 0% | 46.9 | 46.9 | 0% | 0% | 58.5 | 59.0 | 1% | 0% | 41.8 | 42.8 | 2% | 1% | 13.8 | 9.5 | -31% | -9% | 24.3 | 23.7 | -2% | -1% |
| 61 | July | 6.2 | 6.2 | 0% | 0% | 12.9 | 12.9 | 0% | 0% | 18.9 | 17.6 | -7% | -3% | 13.8 | 12.7 | -8% | -4% | 3.7 | 0.8 | -78% | -21% | 6.3 | 6.2 | -1% | 0% |
| 61 | August | 5.3 | 5.2 | -1% | -1% | 10.9 | 10.8 | -1% | -1% | 16.2 | 14.9 | -8% | -8% | 12.0 | 11.0 | -8% | -8% | 3.3 | 0.6 | -82% | -82% | 5.3 | 5.2 | -2% | -2% |
| 61 | September | 4.4 | 4.4 | 1% | 1% | 9.2 | 9.2 | 0% | 0% | 13.8 | 12.8 | -7% | -7% | 10.6 | 9.8 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -2% | -2% |
| 61 | October | 5.3 | 5.3 | -1% | -1% | 11.0 | 10.8 | -2% | -2% | 16.0 | 15.2 | -5% | -5% | 13.0 | 13.2 | 2% | 2% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.0 | -5% | -5% |
| 61 | November | 4.1 | 4.1 | -1% | -1% | 8.6 | 8.8 | 2% | 2% | 12.8 | 12.3 | -4% | -4% | 9.9 | 9.4 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.6 | 5% | 5% |
| 61 | December | 3.6 | 3.7 | 2% | 2% | 7.8 | 8.2 | 5% | 5% | 11.7 | 11.4 | -2% | -2% | 9.0 | 8.7 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 7% | 7% |
| 62 | January | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.9 | 11% | 11% | 10.6 | 11.0 | 4% | 4% | 8.1 | 8.0 | -1% | -1% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.4 | 20% | 20% |
| 62 | February | 2.7 | 2.7 | 0% | 0% | 5.9 | 6.1 | 3% | 3% | 8.9 | 8.7 | -2% | -2% | 6.7 | 6.7 | 1% | 1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 3% | 3% |
| 62 | March | 2.7 | 2.7 | -1% | -1% | 6.1 | 6.4 | 5% | 5% | 9.1 | 9.1 | 0% | 0% | 6.7 | 6.8 | 3% | 3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 8% | 8% |
| 62 | April | 6.4 | 6.4 | 0% | 0% | 14.0 | 14.0 | 0% | 0% | 19.0 | 19.7 | 4% | 3% | 15.9 | 20.3 | 28% | 28% | 2.9 | 0.0 | -100% | -42% | 7.2 | 6.8 | -5% | -3% |
| 62 | May | 58.0 | 58.0 | 0% | 0% | 127.8 | 128.0 | 0% | 0% | 152.1 | 158.0 | 4% | 4% | 101.2 | 105.5 | 4% | 4% | 39.3 | 31.5 | -20% | -20% | 66.9 | 65.5 | -2% | -2% |
| 62 | June | 82.4 | 82.4 | 0% | 0% | 176.9 | 178.3 | 1% | 1% | 219.6 | 222.9 | 1% | 1% | 160.0 | 158.9 | -1% | -1% | 56.1 | 46.5 | -17% | -17% | 94.2 | 93.4 | -1% | -1% |
| 62 | July | 6.8 | 7.0 | 2% | 1% | 13.6 | 14.2 | 4% | 2% | 20.3 | 19.1 | -6% | -3% | 15.4 | 13.8 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.2 | 6.7 | 7% | 2% |
| 62 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.2 | 15.5 | -10% | -10% | 13.2 | 11.9 | -10% | -10% | 3.2 | 0.5 | -84% | -84% | 5.3 | 5.2 | -2% | -2% |
| 62 | September | 4.8 | 4.8 | 0% | 0% | 9.6 | 9.6 | 0% | 0% | 14.7 | 13.2 | -10% | -10% | 11.5 | 10.4 | -10% | -10% | 2.9 | 0.3 | -89% | -89% | 4.6 | 4.5 | -2% | -2% |
| 62 | October | 19.4 | 19.4 | 0% | 0% | 41.8 | 41.8 | 0% | 0% | 51.7 | 52.3 | 1% | 1% | 39.8 | 43.2 | 9% | 9% | 11.0 | 6.7 | -39% | -39% | 21.2 | 20.6 | -3% | -3% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | November | 5.5 | 5.5 | 0% | 0% | 11.3 | 11.6 | 3% | 3% | 16.9 | 15.9 | -6% | -6% | 12.5 | 11.4 | -9% | -9% | 3.2 | 0.6 | -81% | -81% | 5.5 | 5.8 | 6% | 6% |
| 62 | December | 4.9 | 4.9 | 0% | 0% | 10.0 | 10.3 | 3% | 3% | 15.2 | 14.2 | -7% | -7% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.0 | 4% | 4% |
| 63 | January | 4.3 | 4.3 | 0% | 0% | 8.8 | 9.1 | 3% | 3% | 13.7 | 12.7 | -7% | -7% | 10.3 | 9.4 | -8% | -8% | 2.7 | 0.2 | -92% | -92% | 4.3 | 4.5 | 5% | 5% |
| 63 | February | 3.6 | 3.5 | -1% | -1% | 7.4 | 7.9 | 7% | 7% | 11.5 | 11.1 | -3% | -3% | 8.7 | 8.2 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.4 | 14% | 14% |
| 63 | March | 3.8 | 3.8 | 0% | 0% | 7.9 | 8.0 | 0% | 0% | 12.2 | 11.5 | -6% | -6% | 9.4 | 9.1 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | -1% | -1% |
| 63 | April | 6.1 | 6.1 | 0% | 0% | 12.6 | 12.4 | -2% | -1% | 17.9 | 17.7 | -1% | -1% | 15.0 | 17.3 | 15% | 15% | 2.9 | 0.0 | -100% | -43% | 6.2 | 5.8 | -7% | -4% |
| 63 | May | 47.0 | 46.9 | 0% | 0% | 103.2 | 103.2 | 0% | 0% | 124.0 | 128.0 | 3% | 3% | 83.5 | 87.8 | 5% | 5% | 31.3 | 24.4 | -22% | -18% | 53.9 | 52.5 | -2% | -2% |
| 63 | June | 47.4 | 47.5 | 0% | 0% | 101.9 | 102.4 | 1% | 0% | 126.7 | 128.8 | 2% | 2% | 91.6 | 92.0 | 0% | 0% | 32.0 | 25.2 | -21% | -14% | 54.1 | 53.4 | -1% | -1% |
| 63 | July | 6.7 | 6.8 | 1% | 1% | 13.7 | 14.0 | 2% | 1% | 20.3 | 19.1 | -6% | -3% | 15.0 | 13.7 | -8% | -4% | 3.8 | 0.9 | -76% | -21% | 6.5 | 6.7 | 3% | 1% |
| 63 | August | 5.8 | 5.9 | 0% | 0% | 11.9 | 11.7 | -1% | -1% | 17.7 | 16.1 | -9% | -9% | 13.3 | 12.2 | -8% | -8% | 3.4 | 0.7 | -80% | -80% | 5.6 | 5.4 | -4% | -4% |
| 63 | September | 9.7 | 9.7 | 0% | 0% | 20.4 | 20.2 | -1% | -1% | 27.7 | 26.8 | -3% | -3% | 22.9 | 24.5 | 7% | 7% | 4.6 | 1.0 | -78% | -78% | 10.2 | 9.8 | -4% | -4% |
| 63 | October | 12.2 | 12.2 | 0% | 0% | 25.0 | 24.9 | 0% | 0% | 32.5 | 31.7 | -2% | -2% | 24.7 | 25.6 | 3% | 3% | 6.3 | 2.6 | -58% | -58% | 12.0 | 11.7 | -3% | -3% |
| 63 | November | 5.8 | 5.8 | 0% | 0% | 12.1 | 12.4 | 3% | 3% | 17.4 | 16.6 | -4% | -4% | 12.9 | 11.8 | -9% | -9% | 3.8 | 0.9 | -77% | -77% | 6.1 | 6.4 | 5% | 5% |
| 63 | December | 5.2 | 5.1 | -1% | -1% | 10.8 | 11.1 | 3% | 3% | 15.7 | 15.0 | -4% | -4% | 11.7 | 10.7 | -8% | -8% | 3.5 | 0.7 | -80% | -80% | 5.3 | 5.6 | 5% | 5% |
| 64 | January | 4.5 | 4.5 | 0% | 0% | 9.5 | 10.4 | 10% | 10% | 14.0 | 14.2 | 1% | 1% | 10.6 | 9.8 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.6 | 19% | 19% |
| 64 | February | 3.6 | 3.6 | 0% | 0% | 7.6 | 7.9 | 3% | 3% | 11.4 | 11.0 | -4% | -4% | 8.7 | 8.2 | -6% | -6% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.5 | 6% | 6% |
| 64 | March | 3.5 | 3.5 | 0% | 0% | 7.6 | 7.7 | 1% | 1% | 11.5 | 11.0 | -4% | -4% | 8.8 | 8.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | 1% | 1% |
| 64 | April | 37.5 | 37.4 | 0% | 0% | 82.8 | 82.7 | 0% | 0% | 99.6 | 103.2 | 4% | 4% | 67.0 | 72.7 | 8% | 8% | 25.9 | 19.4 | -25% | -25% | 44.7 | 43.4 | -3% | -3% |
| 64 | May | 74.9 | 74.9 | 0% | 0% | 162.1 | 163.2 | 1% | 1% | 200.6 | 204.7 | 2% | 2% | 144.1 | 144.0 | 0% | 0% | 50.0 | 41.1 | -18% | -18% | 84.0 | 83.1 | -1% | -1% |
| 64 | June | 44.8 | 44.9 | 0% | 0% | 94.6 | 95.4 | 1% | 1% | 120.3 | 120.4 | 0% | 0% | 88.7 | 87.6 | -1% | -1% | 29.1 | 22.8 | -22% | -13% | 49.5 | 49.1 | -1% | 0% |
| 64 | July | 7.0 | 7.1 | 1% | 1% | 14.3 | 14.6 | 2% | 1% | 21.3 | 19.9 | -6% | -3% | 15.9 | 14.4 | -10% | -5% | 3.9 | 1.0 | -74% | -21% | 6.7 | 6.9 | 3% | 1% |
| 64 | August | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.8 | -1% | -1% | 17.8 | 16.4 | -8% | -8% | 13.4 | 12.1 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -2% | -2% |
| 64 | September | 5.3 | 5.3 | 0% | 0% | 10.6 | 10.5 | -1% | -1% | 16.1 | 14.6 | -9% | -9% | 12.5 | 11.5 | -8% | -8% | 3.2 | 0.4 | -87% | -87% | 5.2 | 5.0 | -3% | -3% |
| 64 | October | 7.5 | 7.5 | 0% | 0% | 15.3 | 15.1 | -1% | -1% | 21.8 | 20.7 | -5% | -5% | 17.7 | 18.6 | 5% | 5% | 3.5 | 0.3 | -91% | -91% | 7.3 | 6.9 | -5% | -5% |
| 64 | November | 5.0 | 5.0 | -1% | -1% | 10.2 | 10.2 | 0% | 0% | 15.2 | 14.1 | -8% | -8% | 11.7 | 10.9 | -7% | -7% | 3.0 | 0.3 | -90% | -90% | 5.0 | 5.0 | 0% | 0% |
| 64 | December | 4.5 | 4.5 | 0% | 0% | 9.3 | 9.5 | 3% | 3% | 14.0 | 13.2 | -6% | -6% | 10.6 | 9.9 | -6% | -6% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.8 | 6% | 6% |
| 65 | January | 3.9 | 3.9 | 0% | 0% | 8.3 | 9.5 | 15% | 15% | 12.6 | 13.8 | 10% | 10% | 9.5 | 9.1 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 5.2 | 28% | 28% |
| 65 | February | 3.2 | 3.1 | -1% | -1% | 6.8 | 7.0 | 3% | 3% | 10.4 | 9.9 | -5% | -5% | 7.9 | 7.6 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 65 | March | 3.2 | 3.2 | 0% | 0% | 6.9 | 7.2 | 4% | 4% | 10.6 | 10.3 | -3% | -3% | 7.9 | 7.8 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.8 | 8% | 8% |
| 65 | April | 6.0 | 6.0 | 0% | 0% | 12.8 | 12.7 | -1% | -1% | 17.8 | 17.9 | 1% | 1% | 14.8 | 17.9 | 21% | 20% | 2.9 | 0.0 | -100% | -42% | 6.4 | 6.0 | -5% | -3% |
| 65 | May | 73.8 | 73.7 | 0% | 0% | 162.7 | 163.2 | 0% | 0% | 196.0 | 202.5 | 3% | 3% | 134.0 | 138.3 | 3% | 3% | 50.4 | 40.9 | -19% | -19% | 85.5 | 83.9 | -2% | -2% |
| 65 | June | 98.9 | 98.9 | 0% | 0% | 211.4 | 213.4 | 1% | 1% | 264.3 | 266.5 | 1% | 1% | 193.4 | 194.4 | 1% | 1% | 66.9 | 55.8 | -17% | -17% | 112.1 | 111.5 | -1% | -1% |
| 65 | July | 7.1 | 7.2 | 2% | 1% | 14.0 | 14.9 | 6% | 2% | 21.2 | 20.1 | -5% | -3% | 16.0 | 14.5 | -9% | -5% | 3.7 | 0.8 | -78% | -21% | 6.4 | 7.2 | 12% | 3% |
| 65 | August | 5.9 | 5.9 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.8 | 16.0 | -10% | -10% | 13.6 | 12.3 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 65 | September | 23.0 | 23.0 | 0% | 0% | 48.8 | 48.9 | 0% | 0% | 61.4 | 61.3 | 0% | 0% | 46.6 | 49.0 | 5% | 5% | 13.8 | 9.1 | -34% | -34% | 25.4 | 24.8 | -2% | -2% |
| 65 | October | 13.1 | 13.2 | 0% | 0% | 27.1 | 27.2 | 1% | 1% | 35.8 | 35.0 | -2% | -2% | 27.7 | 27.9 | 1% | 1% | 6.9 | 3.3 | -52% | -52% | 13.1 | 13.0 | -1% | -1% |
| 65 | November | 6.0 | 6.0 | 0% | 0% | 12.5 | 13.0 | 4% | 4% | 18.6 | 17.7 | -5% | -5% | 13.6 | 12.4 | -9% | -9% | 3.9 | 0.9 | -77% | -77% | 6.3 | 6.7 | 7% | 7% |
| 65 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.5 | 4% | 4% | 16.6 | 15.7 | -5% | -5% | 12.2 | 11.1 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.4 | 5.8 | 9% | 9% |
| 66 | January | 4.7 | 4.7 | 0% | 0% | 9.7 | 10.5 | 8% | 8% | 14.8 | 14.5 | -3% | -3% | 11.1 | 10.2 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.5 | 15% | 15% |
| 66 | February | 3.8 | 3.8 | -1% | -1% | 7.9 | 8.1 | 2% | 2% | 12.2 | 11.4 | -7% | -7% | 9.2 | 8.5 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.5 | 4% | 4% |
| 66 | March | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.4 | 7% | 7% | 12.2 | 11.9 | -3% | -3% | 9.2 | 8.7 | -5% | -5% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.4 | 13% | 13% |
| 66 | April | 13.6 | 13.6 | 0% | 0% | 29.8 | 29.5 | -1% | -1% | 37.6 | 38.0 | 1% | 1% | 28.4 | 33.4 | 18% | 18% | 7.6 | 3.6 | -53% | -53% | 15.7 | 14.9 | -5% | -5% |
| 66 | May | 109.3 | 109.3 | 0% | 0% | 238.0 | 239.5 | 1% | 1% | 293.0 | 299.6 | 2% | 2% | 206.3 | 209.5 | 2% | 2% | 74.8 | 62.7 | -16% | -16% | 124.1 | 122.7 | -1% | -1% |
| 66 | June | 91.4 | 91.5 | 0% | 0% | 194.5 | 196.7 | 1% | 1% | 244.9 | 246.4 | 1% | 1% | 180.9 | 183.5 | 1% | 1% | 61.4 | 50.9 | -17% | -17% | 102.7 | 102.6 | 0% | 0% |
| 66 | July | 7.5 | 7.6 | 2% | 1% | 14.9 | 15.4 | 4% | 1% | 22.4 | 20.9 | -7% | -3% | 17.0 | 15.4 | -9% | -5% | 3.9 | 1.0 | -75% | -21% | 6.8 | 7.2 | 5% | 2% |
| 66 | August | 6.1 | 6.1 | 0% | 0% | 12.3 | 12.2 | -1% | -1% | 18.5 | 16.8 | -10% | -10% | 14.0 | 12.7 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.8 | 5.6 | -3% | -3% |
| 66 | September | 5.2 | 5.1 | -1% | -1% | 10.3 | 10.2 | -1% | -1% | 15.7 | 14.2 | -9% | -9% | 12.2 | 11.0 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.9 | -1% | -1% |
| 66 | October | 5.1 | 5.1 | 0% | 0% | 10.2 | 10.0 | -1% | -1% | 15.6 | 14.1 | -9% | -9% | 12.3 | 11.4 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.6 | -3% | -3% |
| 66 | November | 4.4 | 4.3 | 0% | 0% | 8.8 | 8.9 | 2% | 2% | 13.6 | 12.6 | -7% | -7% | 10.6 | 9.9 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.4 | 4% | 4% |
| 66 | December | 4.0 | 4.0 | -1% | -1% | 8.2 | 8.6 | 5% | 5% | 12.8 | 12.1 | -5% | -5% | 9.7 | 9.3 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.3 | 10% | 10% |
| 67 | January | 3.6 | 3.5 | -1% | -1% | 7.4 | 7.9 | 7% | 7% | 11.7 | 11.3 | -3% | -3% | 8.7 | 8.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 13% | 13% |
| 67 | February | 2.9 | 2.9 | 0% | 0% | 6.3 | 6.8 | 7% | 7% | 10.0 | 9.7 | -3% | -3% | 7.5 | 7.4 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 13% | 13% |
| 67 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.6 | 5% | 5% | 9.8 | 9.5 | -3% | -3% | 7.2 | 7.3 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 10% | 10% |
| 67 | April | 9.0 | 9.0 | 0% | 0% | 19.4 | 19.4 | 0% | 0% | 25.8 | 26.7 | 3% | 3% | 20.6 | 26.3 | 28% | 28% | 3.8 | 0.6 | -84% | -47% | 9.9 | 9.5 | -4% | -4% |
| 67 | May | 78.6 | 78.5 | 0% | 0% | 172.6 | 173.2 | 0% | 0% | 208.6 | 215.2 | 3% | 3% | 143.4 | 146.0 | 2% | 2% | 53.9 | 44.5 | -17% | -17% | 90.4 | 88.9 | -2% | -2% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67 | June | 74.1 | 74.1 | 0% | 0% | 157.8 | 159.0 | 1% | 1% | 197.9 | 199.1 | 1% | 1% | 145.0 | 145.7 | 0% | 0% | 49.5 | 40.6 | -18% | -18% | 83.4 | 82.7 | -1% | -1% |
| 67 | July | 6.9 | 7.1 | 2% | 1% | 13.8 | 14.4 | 5% | 2% | 20.8 | 19.5 | -6% | -3% | 15.8 | 14.2 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.8 | 7% | 2% |
| 67 | August | 5.8 | 5.8 | 1% | 1% | 11.5 | 11.5 | 0% | 0% | 17.5 | 15.8 | -10% | -10% | 13.3 | 12.0 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.2 | -2% | -2% |
| 67 | September | 5.0 | 5.0 | 0% | 0% | 10.1 | 10.0 | -1% | -1% | 15.4 | 13.9 | -10% | -10% | 12.0 | 11.0 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -2% | -2% |
| 67 | October | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.6 | -1% | -1% | 14.9 | 13.5 | -9% | -9% | 11.7 | 10.9 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.4 | -3% | -3% |
| 67 | November | 4.1 | 4.1 | 0% | 0% | 8.4 | 8.4 | 1% | 1% | 13.0 | 12.0 | -8% | -8% | 10.1 | 9.5 | -6% | -6% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.1 | 1% | 1% |
| 67 | December | 3.8 | 3.8 | -1% | -1% | 7.8 | 8.3 | 6% | 6% | 12.2 | 11.6 | -5% | -5% | 9.3 | 8.9 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.2 | 11% | 11% |
| 68 | January | 3.4 | 3.3 | -1% | -1% | 7.1 | 7.4 | 5% | 5% | 11.1 | 10.6 | -5% | -5% | 8.4 | 8.2 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 9% | 9% |
| 68 | February | 2.7 | 2.7 | 0% | 0% | 5.9 | 5.9 | 1% | 1% | 9.2 | 8.6 | -7% | -7% | 6.9 | 6.9 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.3 | 1% | 1% |
| 68 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.1 | 2% | 2% | 9.4 | 8.9 | -5% | -5% | 7.0 | 7.0 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.2 | 3% | 3% |
| 68 | April | 8.0 | 8.0 | 0% | 0% | 17.2 | 16.9 | -2% | -2% | 23.2 | 24.5 | 6% | 5% | 19.1 | 24.7 | 29% | 29% | 3.1 | 0.1 | -97% | -45% | 8.8 | 8.0 | -8% | -7% |
| 68 | May | 30.6 | 30.5 | 0% | 0% | 66.8 | 66.5 | -1% | 0% | 78.7 | 81.3 | 3% | 2% | 52.6 | 56.7 | 8% | 6% | 19.7 | 14.8 | -25% | -13% | 34.5 | 33.4 | -3% | -2% |
| 68 | June | 20.0 | 20.2 | 1% | 0% | 42.4 | 42.4 | 0% | 0% | 52.4 | 52.7 | 1% | 0% | 37.1 | 38.3 | 3% | 1% | 12.3 | 8.3 | -32% | -8% | 22.0 | 21.3 | -3% | -1% |
| 68 | July | 6.0 | 6.0 | 1% | 0% | 12.5 | 12.5 | 0% | 0% | 18.2 | 16.9 | -7% | -3% | 13.1 | 12.1 | -8% | -4% | 3.5 | 0.8 | -77% | -19% | 6.0 | 6.0 | -1% | 0% |
| 68 | August | 5.1 | 5.0 | -1% | -1% | 10.6 | 10.4 | -1% | -1% | 15.6 | 14.4 | -8% | -8% | 11.6 | 10.7 | -8% | -8% | 3.2 | 0.6 | -81% | -81% | 5.1 | 5.0 | -2% | -2% |
| 68 | September | 6.2 | 6.2 | 0% | 0% | 12.8 | 12.6 | -2% | -2% | 18.2 | 17.3 | -5% | -5% | 14.5 | 15.0 | 4% | 4% | 3.4 | 0.4 | -88% | -88% | 6.4 | 6.0 | -6% | -6% |
| 68 | October | 5.1 | 5.1 | 0% | 0% | 10.6 | 10.5 | -1% | -1% | 15.4 | 14.4 | -6% | -6% | 11.9 | 11.3 | -5% | -5% | 3.1 | 0.4 | -87% | -87% | 5.2 | 5.0 | -3% | -3% |
| 68 | November | 4.2 | 4.2 | -1% | -1% | 8.9 | 9.7 | 9% | 9% | 13.0 | 13.1 | 1% | 1% | 10.0 | 9.5 | -5% | -5% | 2.8 | 0.2 | -93% | -93% | 4.6 | 5.4 | 17% | 17% |
| 68 | December | 3.8 | 3.8 | 0% | 0% | 8.1 | 8.5 | 5% | 5% | 12.0 | 11.8 | -1% | -1% | 9.2 | 8.9 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.5 | 10% | 10% |
| 69 | January | 3.4 | 3.4 | -1% | -1% | 7.4 | 8.3 | 12% | 12% | 10.9 | 11.3 | 4% | 4% | 8.3 | 8.2 | -2% | -2% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.7 | 22% | 22% |
| 69 | February | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.5 | 5% | 5% | 9.1 | 9.1 | 0% | 0% | 6.9 | 6.9 | 0% | 0% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.9 | 9% | 9% |
| 69 | March | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.6 | 7% | 7% | 10.3 | 10.6 | 3% | 3% | 7.7 | 8.0 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.1 | 12% | 12% |
| 69 | April | 46.5 | 46.4 | 0% | 0% | 103.1 | 103.3 | 0% | 0% | 122.8 | 128.2 | 4% | 4% | 82.0 | 88.8 | 8% | 8% | 32.2 | 24.9 | -23% | -23% | 55.8 | 54.6 | -2% | -2% |
| 69 | May | 85.1 | 85.1 | 0% | 0% | 183.4 | 184.8 | 1% | 1% | 226.7 | 230.9 | 2% | 2% | 164.5 | 164.2 | 0% | 0% | 56.2 | 46.5 | -17% | -17% | 94.7 | 93.8 | -1% | -1% |
| 69 | June | 122.1 | 122.2 | 0% | 0% | 260.3 | 262.5 | 1% | 1% | 326.8 | 328.3 | 0% | 0% | 242.3 | 241.1 | 0% | 0% | 82.4 | 69.3 | -16% | -16% | 137.8 | 136.8 | -1% | -1% |
| 69 | July | 7.5 | 7.6 | 2% | 1% | 14.7 | 15.8 | 8% | 3% | 22.1 | 21.1 | -4% | -2% | 16.8 | 15.3 | -9% | -5% | 3.8 | 0.9 | -76% | -21% | 6.7 | 7.6 | 14% | 4% |
| 69 | August | 6.1 | 6.1 | 0% | 0% | 12.2 | 12.1 | -1% | -1% | 18.3 | 16.6 | -10% | -10% | 14.0 | 12.6 | -10% | -10% | 3.4 | 0.7 | -80% | -80% | 5.7 | 5.5 | -3% | -3% |
| 69 | September | 5.2 | 5.1 | -1% | -1% | 10.3 | 10.2 | 0% | 0% | 15.6 | 14.1 | -10% | -10% | 12.2 | 11.0 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.8 | -1% | -1% |
| 69 | October | 4.7 | 4.6 | 0% | 0% | 9.3 | 9.3 | 0% | 0% | 14.5 | 13.1 | -10% | -10% | 11.3 | 10.3 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.3 | -1% | -1% |
| 69 | November | 4.0 | 4.0 | 0% | 0% | 8.1 | 8.3 | 2% | 2% | 12.8 | 11.7 | -9% | -9% | 10.0 | 9.3 | -7% | -7% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 69 | December | 3.8 | 3.7 | -1% | -1% | 7.7 | 8.0 | 4% | 4% | 12.2 | 11.3 | -7% | -7% | 9.3 | 8.8 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.9 | 6% | 6% |
| 70 | January | 3.3 | 3.3 | -1% | -1% | 7.0 | 7.4 | 6% | 6% | 11.1 | 10.6 | -5% | -5% | 8.4 | 8.1 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.8 | 11% | 11% |
| 70 | February | 2.7 | 2.6 | -1% | -1% | 5.8 | 6.2 | 8% | 8% | 9.2 | 9.0 | -3% | -3% | 6.9 | 6.8 | -2% | -2% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 15% | 15% |
| 70 | March | 2.7 | 2.7 | 0% | 0% | 5.9 | 6.2 | 5% | 5% | 9.4 | 9.0 | -4% | -4% | 6.9 | 6.9 | 0% | 0% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 8% | 8% |
| 70 | April | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.2 | 0% | 0% | 14.7 | 14.9 | 1% | 1% | 12.2 | 15.2 | 25% | 19% | 2.3 | 0.0 | -100% | -35% | 5.1 | 4.9 | -4% | -2% |
| 70 | May | 37.6 | 37.6 | 0% | 0% | 83.1 | 82.8 | 0% | 0% | 98.8 | 102.7 | 4% | 3% | 66.3 | 72.2 | 9% | 9% | 24.1 | 18.3 | -24% | -15% | 43.4 | 41.9 | -3% | -3% |
| 70 | June | 54.5 | 54.6 | 0% | 0% | 117.9 | 118.5 | 0% | 0% | 145.3 | 148.3 | 2% | 2% | 103.6 | 104.3 | 1% | 1% | 37.1 | 29.9 | -19% | -15% | 63.0 | 62.0 | -1% | -1% |
| 70 | July | 6.4 | 6.5 | 2% | 1% | 12.9 | 13.1 | 2% | 1% | 19.4 | 18.0 | -7% | -3% | 14.3 | 13.2 | -8% | -4% | 3.4 | 0.7 | -79% | -19% | 6.0 | 6.1 | 1% | 0% |
| 70 | August | 5.6 | 5.6 | 0% | 0% | 11.2 | 11.0 | -2% | -2% | 16.9 | 15.2 | -10% | -10% | 12.9 | 11.8 | -8% | -8% | 3.2 | 0.5 | -84% | -84% | 5.2 | 5.0 | -4% | -4% |
| 70 | September | 4.7 | 4.7 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 14.5 | 13.0 | -10% | -10% | 11.2 | 10.3 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.5 | -2% | -2% |
| 70 | October | 22.4 | 22.3 | 0% | 0% | 48.4 | 48.4 | 0% | 0% | 59.4 | 60.4 | 2% | 2% | 44.3 | 48.0 | 8% | 8% | 13.2 | 8.4 | -36% | -36% | 24.6 | 24.1 | -2% | -2% |
| 70 | November | 5.5 | 5.5 | 0% | 0% | 11.3 | 11.7 | 4% | 4% | 16.8 | 16.0 | -5% | -5% | 12.5 | 11.4 | -9% | -9% | 3.2 | 0.6 | -81% | -81% | 5.5 | 5.9 | 7% | 7% |
| 70 | December | 4.9 | 4.9 | -1% | -1% | 10.1 | 10.3 | 3% | 3% | 15.2 | 14.2 | -6% | -6% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.1 | 5% | 5% |
| 71 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.2 | 4% | 4% | 13.6 | 12.9 | -5% | -5% | 10.3 | 9.5 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.6 | 8% | 8% |
| 71 | February | 3.5 | 3.5 | 0% | 0% | 7.4 | 7.8 | 5% | 5% | 11.4 | 10.9 | -4% | -4% | 8.8 | 8.2 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.2 | 9% | 9% |
| 71 | March | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.4 | 3% | 3% | 11.1 | 10.6 | -4% | -4% | 8.5 | 8.1 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 6% | 6% |
| 71 | April | 19.0 | 18.9 | -1% | -1% | 41.8 | 41.5 | -1% | -1% | 50.5 | 52.0 | 3% | 3% | 36.9 | 42.6 | 15% | 15% | 11.6 | 7.1 | -39% | -39% | 22.2 | 21.3 | -4% | -4% |
| 71 | May | 60.0 | 60.1 | 0% | 0% | 130.7 | 131.4 | 1% | 1% | 160.0 | 164.7 | 3% | 3% | 110.8 | 111.8 | 1% | 1% | 40.7 | 33.0 | -19% | -19% | 68.0 | 67.0 | -2% | -2% |
| 71 | June | 38.9 | 38.9 | 0% | 0% | 82.5 | 83.1 | 1% | 1% | 103.9 | 104.8 | 1% | 1% | 76.4 | 76.2 | 0% | 0% | 25.4 | 19.6 | -23% | -12% | 43.2 | 42.8 | -1% | -1% |
| 71 | July | 6.7 | 6.7 | 1% | 1% | 13.6 | 13.8 | 1% | 0% | 20.3 | 18.8 | -7% | -3% | 15.0 | 13.7 | -9% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.5 | 0% | 0% |
| 71 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.1 | 15.5 | -9% | -9% | 12.9 | 11.7 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.4 | 5.3 | -3% | -3% |
| 71 | September | 4.8 | 4.8 | -1% | -1% | 9.7 | 9.6 | -1% | -1% | 14.8 | 13.4 | -9% | -9% | 11.4 | 10.4 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -2% | -2% |
| 71 | October | 4.4 | 4.4 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.7 | 12.5 | -9% | -9% | 10.7 | 9.9 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -1% | -1% |
| 71 | November | 3.8 | 3.8 | -1% | -1% | 7.8 | 7.8 | 0% | 0% | 12.1 | 11.1 | -9% | -9% | 9.4 | 8.8 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.8 | -1% | -1% |
| 71 | December | 3.5 | 3.5 | -1% | -1% | 7.3 | 7.3 | 0% | 0% | 11.4 | 10.5 | -8% | -8% | 8.7 | 8.3 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.6 | -2% | -2% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 72 | January | 3.1 | 3.1 | -1% | -1% | 6.6 | 6.7 | 1% | 1% | 10.3 | 9.7 | -7% | -7% | 7.9 | 7.8 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 1% | 1% |
| 72 | February | 2.5 | 2.5 | -1% | -1% | 5.5 | 5.5 | 0% | 0% | 8.6 | 8.0 | -6% | -6% | 6.5 | 6.5 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.1 | -1% | -1% |
| 72 | March | 2.5 | 2.5 | 0% | 0% | 5.7 | 6.0 | 6% | 6% | 8.8 | 8.7 | -1% | -1% | 6.5 | 6.6 | 2% | 2% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.3 | 11% | 11% |
| 72 | April | 3.5 | 3.5 | 0% | 0% | 7.7 | 7.5 | -3% | -1% | 11.3 | 11.0 | -2% | -1% | 8.9 | 10.6 | 19% | 11% | 2.0 | 0.0 | -100% | -30% | 4.0 | 3.6 | -9% | -3% |
| 72 | May | 9.4 | 9.4 | 0% | 0% | 20.4 | 20.0 | -2% | -1% | 26.5 | 27.1 | 2% | 0% | 20.5 | 26.3 | 28% | 9% | 3.8 | 0.8 | -79% | -8% | 10.2 | 9.3 | -9% | -2% |
| 72 | June | 4.0 | 4.0 | 0% | 0% | 8.1 | 8.0 | -2% | 0% | 11.5 | 10.9 | -5% | 0% | 8.5 | 8.3 | -3% | 0% | 2.0 | 0.0 | -100% | -4% | 4.0 | 3.8 | -5% | 0% |
| 72 | July | 3.7 | 3.7 | 0% | 0% | 7.8 | 7.6 | -2% | 0% | 10.9 | 10.3 | -5% | -1% | 8.0 | 7.7 | -4% | -1% | 2.3 | 0.1 | -96% | -15% | 3.9 | 3.7 | -5% | -1% |
| 72 | August | 3.3 | 3.3 | 0% | 0% | 7.1 | 7.1 | -1% | -1% | 10.0 | 9.6 | -4% | -4% | 7.4 | 7.2 | -3% | -3% | 2.2 | 0.1 | -95% | -95% | 3.6 | 3.5 | -4% | -4% |
| 72 | September | 13.4 | 13.4 | -1% | -1% | 29.7 | 29.4 | -1% | -1% | 36.2 | 37.3 | 3% | 3% | 26.1 | 31.4 | 20% | 20% | 7.8 | 3.9 | -50% | -50% | 15.7 | 15.0 | -5% | -5% |
| 72 | October | 5.7 | 5.8 | 1% | 1% | 12.0 | 12.0 | 0% | 0% | 16.1 | 15.7 | -2% | -2% | 12.1 | 12.2 | 1% | 1% | 3.1 | 0.3 | -90% | -90% | 5.8 | 5.6 | -3% | -3% |
| 72 | November | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.8 | 3% | 3% | 12.8 | 12.7 | -1% | -1% | 9.5 | 8.9 | -6% | -6% | 3.0 | 0.4 | -86% | -86% | 4.8 | 5.1 | 5% | 5% |
| 72 | December | 4.0 | 4.0 | 0% | 0% | 8.5 | 9.1 | 7% | 7% | 11.8 | 12.0 | 2% | 2% | 8.8 | 8.2 | -6% | -6% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.8 | 12% | 12% |
| 73 | January | 3.5 | 3.5 | -1% | -1% | 7.6 | 8.0 | 4% | 4% | 10.7 | 10.7 | 0% | 0% | 7.9 | 7.6 | -4% | -4% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.2 | 8% | 8% |
| 73 | February | 2.9 | 2.9 | 0% | 0% | 6.3 | 6.6 | 5% | 5% | 8.9 | 9.0 | 1% | 1% | 6.5 | 6.4 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 8% | 8% |
| 73 | March | 4.0 | 4.0 | -1% | -1% | 8.5 | 8.4 | -1% | -1% | 11.9 | 11.8 | -1% | -1% | 9.1 | 10.0 | 10% | 10% | 2.4 | 0.0 | -100% | -100% | 4.2 | 4.1 | -4% | -4% |
| 73 | April | 24.5 | 24.4 | 0% | 0% | 53.8 | 53.4 | -1% | -1% | 62.8 | 65.7 | 4% | 4% | 42.6 | 48.7 | 14% | 14% | 15.6 | 10.5 | -33% | -33% | 28.7 | 27.5 | -4% | -4% |
| 73 | May | 52.7 | 52.8 | 0% | 0% | 114.4 | 115.1 | 1% | 1% | 138.9 | 143.1 | 3% | 3% | 94.4 | 95.5 | 1% | 1% | 35.3 | 28.3 | -20% | -19% | 59.3 | 58.5 | -1% | -1% |
| 73 | June | 46.7 | 46.8 | 0% | 0% | 99.7 | 100.2 | 0% | 0% | 124.3 | 125.6 | 1% | 1% | 91.0 | 90.7 | 0% | 0% | 31.1 | 24.5 | -21% | -13% | 52.6 | 51.9 | -1% | -1% |
| 73 | July | 6.9 | 7.0 | 1% | 1% | 14.2 | 14.3 | 1% | 0% | 20.7 | 19.3 | -7% | -3% | 15.5 | 14.1 | -9% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.7 | 0% | 0% |
| 73 | August | 5.7 | 5.8 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.5 | 15.9 | -9% | -9% | 13.2 | 12.0 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -3% | -3% |
| 73 | September | 5.1 | 5.1 | -1% | -1% | 10.4 | 10.2 | -2% | -2% | 15.6 | 14.1 | -10% | -10% | 12.1 | 11.1 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 5.1 | 4.9 | -3% | -3% |
| 73 | October | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.4 | 0% | 0% | 14.4 | 13.1 | -9% | -9% | 11.2 | 10.3 | -8% | -8% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.4 | -2% | -2% |
| 73 | November | 4.0 | 4.0 | -1% | -1% | 8.2 | 8.2 | 0% | 0% | 12.6 | 11.6 | -8% | -8% | 9.7 | 9.1 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | 0% | 0% |
| 73 | December | 3.7 | 3.6 | -1% | -1% | 7.7 | 7.8 | 2% | 2% | 11.8 | 11.2 | -5% | -5% | 9.1 | 8.6 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 5% | 5% |
| 74 | January | 3.2 | 3.2 | -1% | -1% | 6.9 | 7.1 | 2% | 2% | 10.8 | 10.1 | -6% | -6% | 8.2 | 8.0 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 3% | 3% |
| 74 | February | 2.6 | 2.6 | -1% | -1% | 5.8 | 6.2 | 8% | 8% | 8.9 | 8.8 | -1% | -1% | 6.8 | 6.6 | -2% | -2% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.8 | 14% | 14% |
| 74 | March | 2.6 | 2.6 | 0% | 0% | 5.9 | 6.0 | 1% | 1% | 9.1 | 8.7 | -4% | -4% | 6.7 | 6.8 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.1 | 2% | 2% |
| 74 | April | 6.3 | 6.3 | 0% | 0% | 13.6 | 13.7 | 1% | 1% | 18.8 | 19.8 | 5% | 4% | 16.2 | 20.7 | 28% | 28% | 2.8 | 0.0 | -100% | -41% | 6.8 | 6.6 | -4% | -2% |
| 74 | May | 24.8 | 24.8 | 0% | 0% | 54.0 | 53.6 | -1% | 0% | 63.2 | 65.5 | 4% | 2% | 43.0 | 47.9 | 11% | 7% | 14.9 | 10.4 | -30% | -12% | 27.6 | 26.6 | -4% | -2% |
| 74 | June | 15.5 | 15.6 | 1% | 0% | 32.8 | 32.5 | -1% | 0% | 40.0 | 40.1 | 0% | 0% | 28.8 | 30.1 | 4% | 2% | 9.1 | 5.4 | -40% | -8% | 16.8 | 16.1 | -4% | -1% |
| 74 | July | 5.7 | 5.8 | 1% | 0% | 11.9 | 11.9 | 0% | 0% | 17.1 | 16.0 | -7% | -3% | 12.4 | 11.3 | -9% | -4% | 3.4 | 0.8 | -77% | -19% | 5.8 | 5.7 | -2% | -1% |
| 74 | August | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.0 | -1% | -1% | 14.7 | 13.7 | -7% | -7% | 10.9 | 10.0 | -9% | -9% | 3.1 | 0.5 | -84% | -84% | 4.9 | 4.8 | -3% | -3% |
| 74 | September | 4.3 | 4.1 | -4% | -4% | 8.8 | 8.6 | -2% | -2% | 13.0 | 12.0 | -8% | -8% | 9.7 | 8.9 | -8% | -8% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.4 | -2% | -2% |
| 74 | October | 8.2 | 8.2 | 0% | 0% | 17.4 | 17.2 | -1% | -1% | 23.4 | 23.4 | 0% | 0% | 19.0 | 21.6 | 14% | 14% | 3.7 | 0.4 | -89% | -89% | 8.5 | 8.1 | -5% | -5% |
| 74 | November | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.6 | 1% | 1% | 13.6 | 13.0 | -5% | -5% | 10.3 | 9.5 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.9 | 4.9 | 1% | 1% |
| 74 | December | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.8 | 1% | 1% | 12.4 | 12.0 | -4% | -4% | 9.3 | 8.6 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.5 | 2% | 2% |
| 75 | January | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.3 | 6% | 6% | 11.2 | 12.1 | 7% | 7% | 8.4 | 8.0 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.4 | 11% | 11% |
| 75 | February | 3.0 | 3.0 | 0% | 0% | 6.6 | 6.9 | 5% | 5% | 9.6 | 9.6 | 0% | 0% | 7.1 | 6.9 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.0 | 8% | 8% |
| 75 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.9 | 5% | 5% | 9.5 | 9.5 | 0% | 0% | 6.9 | 6.8 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 75 | April | 24.6 | 24.4 | 0% | 0% | 54.2 | 54.1 | 0% | 0% | 63.8 | 67.0 | 5% | 5% | 43.7 | 50.3 | 15% | 15% | 16.1 | 11.0 | -32% | -32% | 29.0 | 28.1 | -3% | -3% |
| 75 | May | 62.6 | 62.7 | 0% | 0% | 136.4 | 137.4 | 1% | 1% | 166.4 | 171.2 | 3% | 3% | 114.3 | 115.4 | 1% | 1% | 42.3 | 34.5 | -18% | -18% | 71.0 | 70.2 | -1% | -1% |
| 75 | June | 36.4 | 36.5 | 0% | 0% | 76.9 | 77.5 | 1% | 1% | 96.5 | 97.3 | 1% | 1% | 71.1 | 70.9 | 0% | 0% | 23.4 | 17.9 | -24% | -11% | 40.1 | 39.8 | -1% | 0% |
| 75 | July | 6.6 | 6.7 | 1% | 0% | 13.5 | 13.7 | 1% | 0% | 20.0 | 18.6 | -7% | -3% | 14.9 | 13.4 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.5 | 1% | 0% |
| 75 | August | 5.5 | 5.5 | 0% | 0% | 11.3 | 11.2 | -1% | -1% | 16.9 | 15.4 | -9% | -9% | 12.8 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 75 | September | 7.6 | 7.6 | 0% | 0% | 15.6 | 15.4 | -1% | -1% | 22.1 | 20.9 | -5% | -5% | 17.9 | 18.7 | 4% | 4% | 3.7 | 0.4 | -89% | -89% | 7.7 | 7.3 | -5% | -5% |
| 75 | October | 5.2 | 5.2 | -1% | -1% | 10.7 | 10.7 | -1% | -1% | 16.0 | 14.6 | -9% | -9% | 12.2 | 11.1 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.1 | -1% | -1% |
| 75 | November | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.3 | 3% | 3% | 13.6 | 12.8 | -6% | -6% | 10.4 | 9.5 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.8 | 4% | 4% |
| 75 | December | 4.0 | 4.0 | -1% | -1% | 8.4 | 8.8 | 5% | 5% | 12.7 | 12.2 | -4% | -4% | 9.7 | 9.0 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.5 | 11% | 11% |
| 76 | January | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.6 | 1% | 1% | 11.5 | 10.7 | -6% | -6% | 8.7 | 8.2 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 2% | 2% |
| 76 | February | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.5 | 5% | 5% | 9.5 | 9.2 | -3% | -3% | 7.2 | 6.9 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 9% | 9% |
| 76 | March | 3.2 | 3.2 | -1% | -1% | 7.0 | 7.0 | 0% | 0% | 10.5 | 10.1 | -4% | -4% | 8.0 | 8.0 | 1% | 1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | -1% | -1% |
| 76 | April | 21.8 | 21.7 | -1% | -1% | 48.3 | 47.9 | -1% | -1% | 57.5 | 59.8 | 4% | 4% | 40.6 | 47.4 | 17% | 17% | 13.6 | 8.7 | -36% | -36% | 25.8 | 24.8 | -4% | -4% |
| 76 | May | 55.6 | 55.7 | 0% | 0% | 121.0 | 121.7 | 1% | 1% | 147.7 | 152.1 | 3% | 3% | 101.5 | 102.7 | 1% | 1% | 37.3 | 30.1 | -19% | -19% | 62.8 | 61.9 | -1% | -1% |
| 76 | June | 50.5 | 50.6 | 0% | 0% | 107.8 | 108.7 | 1% | 1% | 135.0 | 136.6 | 1% | 1% | 99.0 | 98.4 | -1% | -1% | 33.6 | 26.8 | -20% | -14% | 56.9 | 56.5 | -1% | -1% |
| 76 | July | 6.8 | 6.9 | 1% | 1% | 13.9 | 14.2 | 2% | 1% | 20.6 | 19.3 | -6% | -3% | 15.4 | 13.9 | -9% | -5% | 3.8 | 0.9 | -76% | -21% | 6.5 | 6.7 | 3% | 1% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 76 | August | 5.7 | 5.7 | -1% | -1% | 11.6 | 11.5 | -1% | -1% | 17.4 | 15.8 | -9% | -9% | 13.2 | 11.9 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.4 | -2% | -2% |
| 76 | September | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.7 | -1% | -1% | 14.9 | 13.5 | -9% | -9% | 11.5 | 10.4 | -10% | -10% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -1% | -1% |
| 76 | October | 6.8 | 6.8 | 0% | 0% | 14.0 | 13.7 | -2% | -2% | 20.1 | 19.0 | -5% | -5% | 16.4 | 17.1 | 5% | 5% | 3.3 | 0.2 | -94% | -94% | 6.6 | 6.2 | -5% | -5% |
| 76 | November | 5.0 | 5.0 | 0% | 0% | 10.1 | 10.6 | 4% | 4% | 15.0 | 14.4 | -4% | -4% | 11.7 | 10.8 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.9 | 5.4 | 9% | 9% |
| 76 | December | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.4 | 4% | 4% | 13.6 | 13.0 | -4% | -4% | 10.4 | 9.7 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.7 | 8% | 8% |
| 77 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.5 | 5% | 5% | 12.2 | 11.8 | -3% | -3% | 9.3 | 8.8 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.4 | 11% | 11% |
| 77 | February | 3.1 | 3.1 | 0% | 0% | 6.6 | 7.1 | 8% | 8% | 10.0 | 10.0 | -1% | -1% | 7.6 | 7.4 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 15% | 15% |
| 77 | March | 3.0 | 3.0 | 0% | 0% | 6.7 | 7.1 | 6% | 6% | 10.2 | 10.1 | -1% | -1% | 7.7 | 7.5 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 77 | April | 11.9 | 11.8 | -1% | -1% | 26.2 | 26.2 | 0% | 0% | 33.1 | 34.3 | 4% | 4% | 25.0 | 31.0 | 24% | 24% | 6.2 | 2.4 | -61% | -56% | 13.7 | 13.3 | -3% | -3% |
| 77 | May | 83.7 | 83.6 | 0% | 0% | 182.9 | 183.9 | 1% | 1% | 221.7 | 228.7 | 3% | 3% | 153.3 | 154.8 | 1% | 1% | 57.3 | 47.5 | -17% | -17% | 95.6 | 94.3 | -1% | -1% |
| 77 | June | 112.5 | 112.6 | 0% | 0% | 240.4 | 242.7 | 1% | 1% | 301.0 | 303.3 | 1% | 1% | 221.8 | 217.3 | -2% | -2% | 76.2 | 63.9 | -16% | -16% | 127.4 | 126.8 | 0% | 0% |
| 77 | July | 10.2 | 10.4 | 2% | 1% | 20.3 | 21.1 | 4% | 2% | 29.0 | 27.9 | -4% | -3% | 23.3 | 22.4 | -4% | -3% | 4.8 | 1.4 | -71% | -24% | 9.5 | 9.9 | 5% | 2% |
| 77 | August | 6.7 | 6.8 | 0% | 0% | 13.6 | 13.4 | -1% | -1% | 20.0 | 18.2 | -9% | -9% | 15.2 | 13.7 | -10% | -10% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.2 | -3% | -3% |
| 77 | September | 8.4 | 8.4 | 0% | 0% | 17.4 | 17.2 | -1% | -1% | 24.4 | 23.1 | -5% | -5% | 20.1 | 20.4 | 2% | 2% | 4.3 | 0.9 | -79% | -79% | 8.6 | 8.2 | -4% | -4% |
| 77 | October | 32.0 | 32.0 | 0% | 0% | 67.4 | 67.8 | 1% | 1% | 84.4 | 85.1 | 1% | 1% | 60.5 | 61.8 | 2% | 2% | 19.8 | 14.4 | -27% | -27% | 33.9 | 33.5 | -1% | -1% |
| 77 | November | 6.5 | 6.5 | 0% | 0% | 13.5 | 13.9 | 3% | 3% | 19.8 | 18.9 | -5% | -5% | 14.4 | 13.2 | -9% | -9% | 4.1 | 1.1 | -73% | -73% | 6.8 | 7.2 | 6% | 6% |
| 77 | December | 5.6 | 5.6 | 0% | 0% | 11.7 | 12.1 | 3% | 3% | 17.5 | 16.5 | -6% | -6% | 13.0 | 11.7 | -10% | -10% | 3.6 | 0.7 | -81% | -81% | 5.7 | 6.1 | 6% | 6% |
| 78 | January | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.5 | 3% | 3% | 15.5 | 14.6 | -6% | -6% | 11.7 | 10.7 | -9% | -9% | 3.2 | 0.4 | -87% | -87% | 5.0 | 5.3 | 6% | 6% |
| 78 | February | 4.0 | 4.0 | 0% | 0% | 8.3 | 8.7 | 5% | 5% | 12.8 | 12.2 | -5% | -5% | 9.7 | 8.9 | -8% | -8% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.9 | 10% | 10% |
| 78 | March | 3.9 | 3.9 | -1% | -1% | 8.2 | 8.8 | 6% | 6% | 12.8 | 12.4 | -3% | -3% | 9.7 | 9.1 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.6 | 12% | 12% |
| 78 | April | 6.9 | 6.9 | 0% | 0% | 14.5 | 14.4 | -1% | -1% | 20.3 | 20.1 | -1% | -1% | 16.8 | 19.2 | 15% | 15% | 3.2 | 0.0 | -100% | -47% | 7.2 | 6.9 | -5% | -3% |
| 78 | May | 68.2 | 68.1 | 0% | 0% | 150.0 | 150.3 | 0% | 0% | 182.3 | 187.6 | 3% | 3% | 126.0 | 128.9 | 2% | 2% | 46.7 | 37.7 | -19% | -19% | 78.6 | 77.1 | -2% | -2% |
| 78 | June | 76.3 | 76.3 | 0% | 0% | 163.3 | 164.5 | 1% | 1% | 204.9 | 206.5 | 1% | 1% | 149.6 | 147.9 | -1% | -1% | 51.6 | 42.4 | -18% | -18% | 86.6 | 85.9 | -1% | -1% |
| 78 | July | 19.0 | 19.1 | 1% | 1% | 38.8 | 39.3 | 1% | 1% | 51.5 | 50.5 | -2% | -2% | 39.3 | 38.7 | -2% | -2% | 10.5 | 6.3 | -40% | -30% | 18.9 | 18.8 | 0% | 0% |
| 78 | August | 6.9 | 7.0 | 1% | 1% | 14.3 | 14.3 | -1% | -1% | 21.2 | 19.5 | -8% | -8% | 15.8 | 14.3 | -9% | -9% | 4.1 | 1.1 | -73% | -73% | 6.9 | 6.7 | -2% | -2% |
| 78 | September | 5.9 | 5.9 | 0% | 0% | 12.2 | 12.0 | -1% | -1% | 18.1 | 16.6 | -8% | -8% | 13.6 | 12.5 | -8% | -8% | 3.7 | 0.7 | -81% | -81% | 6.0 | 5.8 | -3% | -3% |
| 78 | October | 6.4 | 6.4 | 1% | 1% | 13.1 | 12.9 | -2% | -2% | 19.2 | 17.8 | -7% | -7% | 14.9 | 14.5 | -3% | -3% | 3.6 | 0.5 | -86% | -86% | 6.2 | 5.9 | -5% | -5% |
| 78 | November | 5.2 | 5.1 | 0% | 0% | 10.5 | 11.0 | 5% | 5% | 15.8 | 15.0 | -5% | -5% | 12.1 | 11.2 | -7% | -7% | 3.2 | 0.4 | -87% | -87% | 5.2 | 5.7 | 9% | 9% |
| 78 | December | 4.6 | 4.6 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 14.5 | 13.8 | -5% | -5% | 11.1 | 10.4 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.6 | 5.0 | 8% | 8% |
| 79 | January | 4.1 | 4.1 | -1% | -1% | 8.5 | 8.6 | 1% | 1% | 13.1 | 12.2 | -7% | -7% | 9.9 | 9.5 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.3 | 2% | 2% |
| 79 | February | 3.4 | 3.4 | -1% | -1% | 7.3 | 7.5 | 3% | 3% | 11.2 | 10.7 | -5% | -5% | 8.4 | 8.2 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.1 | 6% | 6% |
| 79 | March | 3.3 | 3.3 | -1% | -1% | 7.1 | 7.5 | 5% | 5% | 11.0 | 10.8 | -2% | -2% | 8.3 | 8.1 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 10% | 10% |
| 79 | April | 9.0 | 9.0 | 0% | 0% | 19.3 | 19.1 | -1% | -1% | 25.6 | 26.2 | 2% | 2% | 20.5 | 25.4 | 24% | 24% | 3.9 | 0.5 | -87% | -50% | 9.8 | 9.2 | -6% | -5% |
| 79 | May | 69.3 | 69.2 | 0% | 0% | 152.2 | 153.1 | 1% | 1% | 183.9 | 190.3 | 3% | 3% | 125.6 | 128.3 | 2% | 2% | 47.6 | 38.9 | -18% | -18% | 79.8 | 78.7 | -1% | -1% |
| 79 | June | 78.3 | 78.3 | 0% | 0% | 167.4 | 168.8 | 1% | 1% | 209.6 | 211.6 | 1% | 1% | 153.2 | 152.3 | -1% | -1% | 52.8 | 43.4 | -18% | -18% | 88.7 | 88.2 | -1% | -1% |
| 79 | July | 11.8 | 12.0 | 2% | 1% | 23.6 | 24.1 | 2% | 1% | 32.7 | 31.4 | -4% | -3% | 26.1 | 25.6 | -2% | -2% | 5.6 | 2.1 | -62% | -25% | 11.1 | 11.2 | 1% | 0% |
| 79 | August | 6.8 | 6.8 | 0% | 0% | 13.8 | 13.7 | -1% | -1% | 20.3 | 18.7 | -8% | -8% | 15.3 | 13.9 | -9% | -9% | 4.0 | 1.1 | -73% | -73% | 6.6 | 6.4 | -4% | -4% |
| 79 | September | 7.0 | 7.0 | 0% | 0% | 14.4 | 14.2 | -2% | -2% | 20.7 | 19.2 | -7% | -7% | 16.1 | 16.0 | -1% | -1% | 4.0 | 0.9 | -78% | -78% | 7.1 | 6.8 | -5% | -5% |
| 79 | October | 9.3 | 9.3 | 0% | 0% | 19.4 | 19.2 | -1% | -1% | 26.7 | 25.6 | -4% | -4% | 21.9 | 22.5 | 3% | 3% | 4.6 | 1.0 | -78% | -78% | 9.4 | 9.1 | -4% | -4% |
| 79 | November | 5.8 | 5.8 | -1% | -1% | 12.0 | 12.4 | 3% | 3% | 17.5 | 16.6 | -5% | -5% | 13.1 | 12.0 | -8% | -8% | 3.7 | 0.8 | -78% | -78% | 6.0 | 6.4 | 6% | 6% |
| 79 | December | 5.2 | 5.3 | 1% | 1% | 10.8 | 11.1 | 2% | 2% | 16.0 | 15.0 | -6% | -6% | 11.8 | 11.0 | -7% | -7% | 3.4 | 0.5 | -85% | -85% | 5.3 | 5.4 | 3% | 3% |
| 80 | January | 4.6 | 4.6 | 0% | 0% | 9.6 | 9.5 | -1% | -1% | 14.4 | 13.3 | -8% | -8% | 10.8 | 10.1 | -6% | -6% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.6 | -2% | -2% |
| 80 | February | 3.7 | 3.7 | -1% | -1% | 7.8 | 8.0 | 2% | 2% | 11.8 | 11.2 | -5% | -5% | 8.8 | 8.4 | -5% | -5% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.5 | 4% | 4% |
| 80 | March | 3.6 | 3.6 | 0% | 0% | 7.9 | 8.1 | 3% | 3% | 11.9 | 11.5 | -4% | -4% | 8.9 | 8.6 | -3% | -3% | 2.5 | 0.0 | -100% | -100% | 4.0 | 4.2 | 4% | 4% |
| 80 | April | 16.3 | 16.2 | -1% | -1% | 35.7 | 35.1 | -2% | -2% | 43.8 | 44.8 | 2% | 2% | 31.8 | 37.5 | 18% | 18% | 9.6 | 5.2 | -46% | -46% | 18.9 | 17.8 | -6% | -6% |
| 80 | May | 35.0 | 35.1 | 0% | 0% | 75.5 | 75.6 | 0% | 0% | 92.0 | 94.6 | 3% | 2% | 61.4 | 63.3 | 3% | 3% | 22.9 | 17.4 | -24% | -15% | 38.7 | 37.8 | -2% | -2% |
| 80 | June | 8.2 | 8.3 | 1% | 0% | 17.3 | 17.1 | -1% | 0% | 23.9 | 22.9 | -4% | -1% | 18.2 | 18.3 | 1% | 0% | 4.4 | 1.1 | -75% | -7% | 8.7 | 8.3 | -4% | -1% |
| 80 | July | 6.0 | 6.1 | 0% | 0% | 12.6 | 12.5 | -1% | 0% | 18.2 | 16.9 | -7% | -3% | 13.4 | 12.4 | -8% | -3% | 3.8 | 0.9 | -76% | -21% | 6.2 | 6.0 | -4% | -1% |
| 80 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.7 | -1% | -1% | 15.8 | 14.7 | -7% | -7% | 11.8 | 10.9 | -8% | -8% | 3.3 | 0.5 | -85% | -85% | 5.2 | 5.2 | -1% | -1% |
| 80 | September | 28.2 | 28.1 | 0% | 0% | 61.2 | 61.4 | 0% | 0% | 74.8 | 76.6 | 2% | 2% | 53.0 | 56.3 | 6% | 6% | 18.4 | 13.0 | -29% | -29% | 32.5 | 31.9 | -2% | -2% |
| 80 | October | 12.7 | 12.8 | 0% | 0% | 26.5 | 26.7 | 1% | 1% | 34.3 | 34.1 | -1% | -1% | 26.3 | 26.7 | 2% | 2% | 6.8 | 3.2 | -53% | -53% | 12.9 | 12.9 | 0% | 0% |
| 80 | November | 6.0 | 6.0 | 0% | 0% | 12.6 | 12.7 | 1% | 1% | 18.1 | 17.2 | -5% | -5% | 13.3 | 12.2 | -8% | -8% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.5 | 1% | 1% |
| 80 | December | 5.2 | 5.2 | 0% | 0% | 11.0 | 11.1 | 0% | 0% | 16.2 | 15.2 | -6% | -6% | 12.0 | 11.0 | -8% | -8% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.5 | 0% | 0% |
| 81 | January | 4.6 | 4.6 | 0% | 0% | 9.7 | 10.1 | 3% | 3% | 14.4 | 13.9 | -4% | -4% | 10.9 | 10.1 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 4.9 | 5.2 | 6% | 6% |
| 81 | February | 3.7 | 3.6 | -1% | -1% | 7.9 | 8.6 | 9% | 9% | 11.7 | 12.3 | 4% | 4% | 9.0 | 8.5 | -6% | -6% | 2.7 | 0.1 | -96% | -96% | 4.4 | 5.2 | 18% | 18% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | March | 16.2 | 16.1 | -1% | -1% | 35.5 | 35.2 | -1% | -1% | 43.5 | 44.2 | 2% | 2% | 32.4 | 37.0 | 14% | 14% | 9.3 | 5.0 | -46% | -46% | 18.2 | 17.5 | -4% | -4% |
| 81 | April | 32.5 | 32.6 | 0% | 0% | 70.1 | 70.4 | 0% | 0% | 86.1 | 88.5 | 3% | 3% | 58.3 | 59.8 | 3% | 3% | 22.1 | 16.6 | -25% | -25% | 37.2 | 36.6 | -2% | -2% |
| 81 | May | 56.3 | 56.3 | 0% | 0% | 122.1 | 122.6 | 0% | 0% | 151.7 | 154.3 | 2% | 2% | 109.3 | 109.0 | 0% | 0% | 37.8 | 30.3 | -20% | -20% | 63.2 | 62.3 | -1% | -1% |
| 81 | June | 39.4 | 39.4 | 0% | 0% | 83.6 | 84.0 | 0% | 0% | 106.1 | 106.3 | 0% | 0% | 78.2 | 77.3 | -1% | -1% | 25.8 | 19.8 | -23% | -12% | 43.8 | 43.3 | -1% | -1% |
| 81 | July | 7.2 | 7.2 | 1% | 1% | 15.0 | 15.2 | 2% | 1% | 21.9 | 20.9 | -5% | -2% | 16.2 | 14.8 | -9% | -5% | 4.2 | 1.1 | -74% | -23% | 7.3 | 7.4 | 2% | 1% |
| 81 | August | 6.0 | 6.0 | 0% | 0% | 12.5 | 12.4 | -1% | -1% | 18.5 | 17.0 | -8% | -8% | 13.7 | 12.6 | -9% | -9% | 3.7 | 0.8 | -78% | -78% | 6.1 | 5.9 | -3% | -3% |
| 81 | September | 16.4 | 16.4 | 0% | 0% | 35.1 | 35.0 | 0% | 0% | 44.3 | 44.3 | 0% | 0% | 34.8 | 36.8 | 6% | 6% | 9.4 | 5.1 | -46% | -46% | 18.2 | 17.7 | -3% | -3% |
| 81 | October | 6.3 | 6.3 | 0% | 0% | 13.1 | 13.1 | 0% | 0% | 19.2 | 18.0 | -7% | -7% | 14.1 | 12.9 | -8% | -8% | 3.8 | 0.9 | -76% | -76% | 6.4 | 6.3 | -1% | -1% |
| 81 | November | 5.2 | 5.2 | 0% | 0% | 10.8 | 10.9 | 1% | 1% | 16.0 | 15.0 | -6% | -6% | 11.8 | 10.9 | -8% | -8% | 3.5 | 0.6 | -83% | -83% | 5.5 | 5.6 | 2% | 2% |
| 81 | December | 4.8 | 4.8 | 0% | 0% | 9.9 | 9.9 | 0% | 0% | 14.9 | 13.8 | -8% | -8% | 11.1 | 10.2 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 4.8 | 4.8 | -2% | -2% |
| 82 | January | 4.2 | 4.2 | 0% | 0% | 8.8 | 9.0 | 2% | 2% | 13.4 | 12.6 | -6% | -6% | 10.1 | 9.5 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.5 | 3% | 3% |
| 82 | February | 3.4 | 3.3 | -1% | -1% | 7.2 | 7.3 | 2% | 2% | 11.0 | 10.4 | -5% | -5% | 8.3 | 7.9 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 4% | 4% |
| 82 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 11.2 | 11.0 | -2% | -2% | 8.4 | 8.1 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.0 | 6% | 6% |
| 82 | April | 12.5 | 12.5 | 0% | 0% | 27.5 | 26.9 | -2% | -2% | 34.7 | 35.1 | 1% | 1% | 26.2 | 31.7 | 21% | 21% | 6.7 | 2.8 | -58% | -58% | 14.4 | 13.4 | -7% | -7% |
| 82 | May | 22.8 | 22.8 | 0% | 0% | 49.0 | 48.7 | -1% | 0% | 58.7 | 60.0 | 2% | 1% | 40.3 | 42.7 | 6% | 4% | 14.2 | 9.8 | -31% | -12% | 24.9 | 24.1 | -3% | -2% |
| 82 | June | 5.6 | 5.6 | 0% | 0% | 11.7 | 11.7 | 0% | 0% | 16.8 | 15.8 | -6% | -1% | 12.0 | 11.1 | -7% | -1% | 3.4 | 0.7 | -80% | -6% | 5.9 | 5.8 | -2% | 0% |
| 82 | July | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.1 | -1% | 0% | 14.9 | 14.0 | -6% | -2% | 10.9 | 10.1 | -8% | -3% | 3.2 | 0.5 | -84% | -19% | 5.0 | 4.9 | -2% | -1% |
| 82 | August | 4.2 | 4.3 | 1% | 1% | 9.0 | 9.0 | 0% | 0% | 13.3 | 12.5 | -6% | -6% | 10.0 | 9.2 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.4 | -2% | -2% |
| 82 | September | 3.6 | 3.6 | 0% | 0% | 7.7 | 7.8 | 0% | 0% | 11.5 | 11.0 | -5% | -5% | 8.8 | 8.2 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.0 | 0% | 0% |
| 82 | October | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.3 | 0% | 0% | 10.9 | 10.4 | -5% | -5% | 8.2 | 7.9 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.7 | -1% | -1% |
| 82 | November | 2.9 | 2.9 | 0% | 0% | 6.5 | 6.6 | 1% | 1% | 9.7 | 9.4 | -3% | -3% | 7.2 | 7.1 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 1% | 1% |
| 82 | December | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.5 | 4% | 4% | 9.3 | 9.3 | 0% | 0% | 6.7 | 6.8 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 7% | 7% |
| 83 | January | 2.5 | 2.5 | 0% | 0% | 5.8 | 6.1 | 5% | 5% | 8.6 | 8.6 | 1% | 1% | 6.1 | 6.3 | 3% | 3% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 8% | 8% |
| 83 | February | 2.2 | 2.2 | 0% | 0% | 5.1 | 5.2 | 1% | 1% | 7.5 | 7.4 | -1% | -1% | 5.1 | 5.4 | 6% | 6% | 1.7 | 0.0 | -100% | -100% | 2.9 | 3.0 | 1% | 1% |
| 83 | March | 2.2 | 2.2 | 0% | 0% | 5.1 | 5.3 | 3% | 3% | 7.5 | 7.6 | 1% | 1% | 5.0 | 5.4 | 7% | 7% | 1.6 | 0.0 | -100% | -100% | 2.8 | 2.9 | 4% | 4% |
| 83 | April | 20.1 | 20.0 | -1% | -1% | 44.8 | 44.7 | 0% | 0% | 53.2 | 55.9 | 5% | 5% | 36.5 | 44.8 | 23% | 23% | 12.0 | 7.8 | -35% | -35% | 23.9 | 23.1 | -3% | -3% |
| 83 | May | 37.0 | 37.1 | 0% | 0% | 79.9 | 80.2 | 0% | 0% | 95.3 | 99.2 | 4% | 3% | 63.4 | 65.7 | 4% | 3% | 23.8 | 18.5 | -22% | -14% | 41.1 | 40.2 | -2% | -2% |
| 83 | June | 16.2 | 16.3 | 1% | 0% | 33.9 | 33.9 | 0% | 0% | 42.3 | 42.1 | 0% | 0% | 31.9 | 32.8 | 3% | 1% | 9.3 | 5.6 | -40% | -8% | 17.3 | 16.8 | -3% | -1% |
| 83 | July | 5.9 | 5.9 | 1% | 0% | 12.2 | 12.2 | 0% | 0% | 17.6 | 16.5 | -7% | -3% | 13.2 | 12.1 | -9% | -4% | 3.4 | 0.8 | -77% | -19% | 5.9 | 5.8 | -2% | -1% |
| 83 | August | 5.0 | 5.0 | -1% | -1% | 10.3 | 10.3 | -1% | -1% | 15.2 | 14.0 | -8% | -8% | 11.6 | 10.6 | -9% | -9% | 3.1 | 0.5 | -84% | -84% | 5.0 | 4.9 | -2% | -2% |
| 83 | September | 4.2 | 4.2 | 0% | 0% | 8.8 | 8.8 | 0% | 0% | 13.2 | 12.2 | -8% | -8% | 10.2 | 9.4 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.3 | -2% | -2% |
| 83 | October | 3.9 | 3.9 | -1% | -1% | 8.1 | 8.1 | 0% | 0% | 12.2 | 11.4 | -7% | -7% | 9.6 | 8.9 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 3.9 | -1% | -1% |
| 83 | November | 3.3 | 3.3 | -1% | -1% | 7.0 | 7.6 | 7% | 7% | 10.7 | 10.5 | -2% | -2% | 8.4 | 7.9 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 14% | 14% |
| 83 | December | 3.0 | 3.0 | -1% | -1% | 6.7 | 6.8 | 1% | 1% | 10.2 | 9.7 | -5% | -5% | 7.9 | 7.6 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 2% | 2% |
| 84 | January | 2.7 | 2.7 | -1% | -1% | 6.1 | 6.4 | 6% | 6% | 9.3 | 9.1 | -2% | -2% | 7.0 | 7.0 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 10% | 10% |
| 84 | February | 2.3 | 2.3 | 0% | 0% | 5.1 | 5.2 | 2% | 2% | 7.8 | 7.5 | -3% | -3% | 5.7 | 5.8 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.0 | 3.1 | 3% | 3% |
| 84 | March | 2.3 | 2.2 | -2% | -2% | 5.3 | 5.8 | 8% | 8% | 8.0 | 8.1 | 2% | 2% | 5.7 | 5.9 | 4% | 4% | 1.7 | 0.0 | -100% | -100% | 2.9 | 3.3 | 16% | 16% |
| 84 | April | 26.3 | 26.2 | 0% | 0% | 58.1 | 58.4 | 0% | 0% | 68.5 | 72.7 | 6% | 6% | 47.5 | 55.3 | 16% | 16% | 16.9 | 11.9 | -30% | -30% | 31.1 | 30.5 | -2% | -2% |
| 84 | May | 45.9 | 46.0 | 0% | 0% | 99.5 | 100.0 | 1% | 1% | 121.0 | 124.4 | 3% | 3% | 82.9 | 84.6 | 2% | 2% | 30.1 | 23.9 | -21% | -16% | 51.4 | 50.6 | -2% | -1% |
| 84 | June | 36.1 | 36.1 | 0% | 0% | 76.8 | 77.1 | 0% | 0% | 95.8 | 96.7 | 1% | 1% | 70.7 | 71.0 | 0% | 0% | 23.5 | 18.1 | -23% | -11% | 40.4 | 39.6 | -2% | -1% |
| 84 | July | 6.3 | 6.4 | 1% | 1% | 12.9 | 13.1 | 2% | 1% | 19.1 | 17.8 | -6% | -3% | 14.2 | 13.0 | -9% | -4% | 3.5 | 0.8 | -77% | -19% | 6.1 | 6.2 | 2% | 1% |
| 84 | August | 5.3 | 5.3 | -1% | -1% | 10.8 | 10.7 | -1% | -1% | 16.3 | 14.7 | -10% | -10% | 12.4 | 11.1 | -10% | -10% | 3.1 | 0.5 | -84% | -84% | 5.1 | 5.0 | -3% | -3% |
| 84 | September | 4.7 | 4.8 | 0% | 0% | 9.6 | 9.5 | -1% | -1% | 14.6 | 13.2 | -9% | -9% | 11.4 | 10.4 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.5 | -3% | -3% |
| 84 | October | 6.6 | 6.7 | 1% | 1% | 13.6 | 13.4 | -2% | -2% | 19.5 | 18.6 | -5% | -5% | 16.1 | 16.9 | 5% | 5% | 3.2 | 0.2 | -94% | -94% | 6.5 | 6.1 | -6% | -6% |
| 84 | November | 4.6 | 4.6 | 0% | 0% | 9.3 | 9.4 | 1% | 1% | 13.9 | 12.9 | -7% | -7% | 10.8 | 9.9 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.6 | 4.6 | 1% | 1% |
| 84 | December | 4.0 | 4.0 | -1% | -1% | 8.4 | 8.3 | -1% | -1% | 12.6 | 11.6 | -8% | -8% | 9.7 | 9.0 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -2% | -2% |
| 85 | January | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.8 | 4% | 4% | 11.4 | 11.0 | -3% | -3% | 8.7 | 8.3 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 7% | 7% |
| 85 | February | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.4 | 4% | 4% | 9.4 | 9.1 | -3% | -3% | 7.2 | 7.0 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 7% | 7% |
| 85 | March | 3.0 | 3.0 | -1% | -1% | 6.5 | 6.6 | 1% | 1% | 9.8 | 9.4 | -4% | -4% | 7.5 | 7.4 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 1% | 1% |
| 85 | April | 22.6 | 22.5 | -1% | -1% | 50.2 | 49.9 | -1% | -1% | 59.5 | 62.2 | 4% | 4% | 41.9 | 48.8 | 16% | 16% | 14.3 | 9.5 | -34% | -34% | 26.9 | 25.9 | -4% | -4% |
| 85 | May | 33.6 | 33.7 | 0% | 0% | 72.2 | 72.7 | 1% | 1% | 88.1 | 90.5 | 3% | 2% | 59.5 | 61.3 | 3% | 3% | 21.6 | 16.3 | -25% | -14% | 37.0 | 36.4 | -1% | -1% |
| 85 | June | 6.7 | 6.8 | 1% | 0% | 13.9 | 13.8 | -1% | 0% | 19.7 | 18.5 | -6% | -1% | 14.9 | 14.4 | -3% | -1% | 3.6 | 0.8 | -78% | -6% | 6.9 | 6.6 | -4% | 0% |
| 85 | July | 5.6 | 5.6 | -1% | 0% | 11.5 | 11.3 | -1% | 0% | 16.7 | 15.4 | -8% | -3% | 12.7 | 11.6 | -8% | -4% | 3.3 | 0.7 | -79% | -19% | 5.5 | 5.3 | -3% | -1% |
| 85 | August | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.8 | -1% | -1% | 14.6 | 13.4 | -8% | -8% | 11.3 | 10.3 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -2% | -2% |
| 85 | September | 4.1 | 4.1 | 0% | 0% | 8.4 | 8.4 | 0% | 0% | 12.6 | 11.7 | -7% | -7% | 9.9 | 9.1 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -1% | -1% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | October | 5.4 | 5.4 | 0% | 0% | 11.1 | 11.0 | -2% | -2% | 16.0 | 15.5 | -3% | -3% | 13.3 | 14.1 | 6% | 6% | 2.9 | 0.1 | -97% | -97% | 5.3 | 5.0 | -6% | -6% |
| 85 | November | 3.9 | 3.9 | 0% | 0% | 8.3 | 8.3 | 0% | 0% | 12.1 | 11.5 | -5% | -5% | 9.4 | 9.0 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.2 | 4.2 | 0% | 0% |
| 85 | December | 3.5 | 3.5 | 0% | 0% | 7.6 | 7.6 | 0% | 0% | 11.1 | 10.6 | -5% | -5% | 8.6 | 8.3 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.8 | -1% | -1% |
| 86 | January | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.1 | 2% | 2% | 10.2 | 10.0 | -2% | -2% | 7.7 | 7.6 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 86 | February | 2.7 | 2.6 | -1% | -1% | 5.9 | 5.9 | 0% | 0% | 8.7 | 8.3 | -4% | -4% | 6.4 | 6.5 | 1% | 1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | -1% | -1% |
| 86 | March | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.3 | 5% | 5% | 8.9 | 8.9 | 0% | 0% | 6.4 | 6.6 | 2% | 2% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 8% | 8% |
| 86 | April | 7.9 | 7.9 | 0% | 0% | 17.1 | 17.0 | -1% | -1% | 22.6 | 24.2 | 7% | 7% | 18.2 | 23.6 | 29% | 29% | 3.3 | 0.2 | -94% | -46% | 8.7 | 8.1 | -7% | -5% |
| 86 | May | 23.7 | 23.6 | 0% | 0% | 51.6 | 51.3 | -1% | 0% | 60.2 | 62.1 | 3% | 2% | 40.1 | 44.2 | 10% | 6% | 14.8 | 10.4 | -30% | -12% | 26.6 | 25.6 | -3% | -2% |
| 86 | June | 16.1 | 16.2 | 1% | 0% | 34.3 | 34.1 | -1% | 0% | 41.3 | 41.8 | 1% | 0% | 29.7 | 30.9 | 4% | 1% | 9.7 | 5.9 | -39% | -8% | 17.7 | 17.0 | -4% | -1% |
| 86 | July | 5.8 | 5.8 | 1% | 0% | 12.1 | 12.1 | 0% | 0% | 17.1 | 16.0 | -6% | -3% | 12.4 | 11.3 | -9% | -4% | 3.5 | 0.8 | -77% | -20% | 5.9 | 5.8 | -3% | -1% |
| 86 | August | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.1 | -1% | -1% | 14.7 | 13.8 | -6% | -6% | 10.9 | 9.9 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.0 | 4.9 | -2% | -2% |
| 86 | September | 4.1 | 4.1 | 0% | 0% | 8.7 | 8.7 | 0% | 0% | 12.8 | 12.0 | -6% | -6% | 9.6 | 8.8 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.4 | -2% | -2% |
| 86 | October | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.6 | -1% | -1% | 12.7 | 12.0 | -5% | -5% | 9.8 | 9.2 | -6% | -6% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.2 | -3% | -3% |
| 86 | November | 3.5 | 3.4 | -1% | -1% | 7.5 | 7.7 | 4% | 4% | 11.0 | 10.8 | -2% | -2% | 8.5 | 8.1 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 7% | 7% |
| 86 | December | 3.2 | 3.2 | 0% | 0% | 7.0 | 7.1 | 2% | 2% | 10.4 | 10.1 | -3% | -3% | 7.8 | 7.6 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 87 | January | 2.9 | 2.9 | -1% | -1% | 6.4 | 6.5 | 1% | 1% | 9.5 | 9.2 | -3% | -3% | 7.0 | 7.0 | 0% | 0% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 1% | 1% |
| 87 | February | 2.5 | 2.5 | 0% | 0% | 5.6 | 5.8 | 3% | 3% | 8.3 | 8.2 | -1% | -1% | 5.9 | 6.0 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 4% | 4% |
| 87 | March | 5.4 | 5.4 | 0% | 0% | 11.6 | 11.4 | -2% | -2% | 16.1 | 16.4 | 2% | 2% | 13.4 | 16.8 | 25% | 25% | 2.6 | 0.0 | -100% | -100% | 5.7 | 5.2 | -9% | -9% |
| 87 | April | 19.3 | 19.2 | -1% | -1% | 42.3 | 42.0 | -1% | -1% | 50.0 | 51.4 | 3% | 3% | 33.9 | 39.1 | 15% | 15% | 11.4 | 7.2 | -37% | -37% | 22.5 | 21.5 | -4% | -4% |
| 87 | May | 11.2 | 11.3 | 1% | 0% | 23.4 | 23.1 | -1% | 0% | 29.2 | 29.0 | -1% | 0% | 21.3 | 22.6 | 6% | 2% | 5.7 | 2.3 | -59% | -9% | 11.4 | 10.7 | -6% | -1% |
| 87 | June | 6.1 | 6.1 | 1% | 0% | 12.7 | 12.4 | -3% | 0% | 17.2 | 16.4 | -5% | -1% | 12.8 | 12.3 | -4% | -1% | 3.7 | 0.8 | -79% | -6% | 6.4 | 6.0 | -7% | -1% |
| 87 | July | 5.2 | 5.2 | 0% | 0% | 10.9 | 10.8 | -1% | 0% | 15.0 | 14.3 | -5% | -2% | 11.3 | 10.3 | -8% | -3% | 3.4 | 0.7 | -79% | -19% | 5.4 | 5.2 | -3% | -1% |
| 87 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 13.3 | 12.7 | -4% | -4% | 9.9 | 9.1 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -2% | -2% |
| 87 | September | 3.8 | 3.8 | -1% | -1% | 8.1 | 8.0 | -1% | -1% | 11.6 | 11.1 | -4% | -4% | 8.8 | 8.1 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.2 | -2% | -2% |
| 87 | October | 3.7 | 3.7 | 0% | 0% | 8.0 | 7.9 | -1% | -1% | 11.5 | 11.0 | -4% | -4% | 8.7 | 8.3 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.1 | 3.9 | -3% | -3% |
| 87 | November | 3.2 | 3.2 | 0% | 0% | 7.0 | 7.1 | 1% | 1% | 10.2 | 9.9 | -2% | -2% | 7.5 | 7.3 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 2% | 2% |
| 87 | December | 3.0 | 3.0 | -1% | -1% | 6.7 | 7.0 | 4% | 4% | 9.6 | 9.7 | 0% | 0% | 6.9 | 6.9 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.7 | 7% | 7% |
| 88 | January | 2.7 | 2.7 | 0% | 0% | 6.2 | 6.6 | 6% | 6% | 9.0 | 9.1 | 1% | 1% | 6.2 | 6.3 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 11% | 11% |
| 88 | February | 2.3 | 2.3 | 0% | 0% | 5.3 | 5.4 | 3% | 3% | 7.6 | 7.6 | 0% | 0% | 5.2 | 5.3 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.2 | 5% | 5% |
| 88 | March | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.7 | 2% | 2% | 12.0 | 12.4 | 3% | 3% | 9.1 | 11.0 | 21% | 21% | 2.2 | 0.0 | -100% | -100% | 4.3 | 4.3 | 0% | 0% |
| 88 | April | 19.5 | 19.4 | -1% | -1% | 43.0 | 42.9 | 0% | 0% | 51.0 | 53.0 | 4% | 4% | 34.8 | 41.4 | 19% | 19% | 11.5 | 7.2 | -37% | -37% | 22.9 | 22.1 | -3% | -3% |
| 88 | May | 62.4 | 62.5 | 0% | 0% | 136.0 | 136.6 | 0% | 0% | 163.9 | 169.6 | 4% | 4% | 111.5 | 112.7 | 1% | 1% | 42.1 | 34.3 | -19% | -19% | 70.8 | 69.6 | -2% | -2% |
| 88 | June | 47.6 | 47.7 | 0% | 0% | 101.2 | 102.1 | 1% | 1% | 126.2 | 127.8 | 1% | 1% | 92.7 | 92.1 | -1% | -1% | 31.3 | 24.8 | -21% | -13% | 53.3 | 52.9 | -1% | 0% |
| 88 | July | 6.8 | 6.9 | 2% | 1% | 13.9 | 14.2 | 2% | 1% | 20.3 | 19.1 | -6% | -3% | 15.3 | 13.8 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.7 | 2% | 1% |
| 88 | August | 5.7 | 5.7 | 0% | 0% | 11.6 | 11.5 | -1% | -1% | 17.3 | 15.7 | -10% | -10% | 13.1 | 11.7 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.3 | -3% | -3% |
| 88 | September | 4.8 | 4.8 | -1% | -1% | 9.8 | 9.8 | 0% | 0% | 14.9 | 13.4 | -10% | -10% | 11.5 | 10.3 | -10% | -10% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -1% | -1% |
| 88 | October | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 13.8 | 12.5 | -9% | -9% | 10.8 | 9.7 | -10% | -10% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -1% | -1% |
| 88 | November | 3.9 | 3.8 | -1% | -1% | 7.9 | 7.8 | 0% | 0% | 12.2 | 11.1 | -9% | -9% | 9.5 | 8.7 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | -1% | -1% |
| 88 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.5 | 1% | 1% | 11.5 | 10.8 | -7% | -7% | 8.8 | 8.2 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 2% | 2% |
| 89 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.9 | 3% | 3% | 10.5 | 9.8 | -6% | -6% | 8.0 | 7.6 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.5 | 5% | 5% |
| 89 | February | 2.5 | 2.5 | -2% | -2% | 5.6 | 5.8 | 3% | 3% | 8.7 | 8.3 | -5% | -5% | 6.6 | 6.3 | -4% | -4% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.4 | 6% | 6% |
| 89 | March | 2.9 | 2.9 | 0% | 0% | 6.4 | 6.2 | -3% | -3% | 9.7 | 9.1 | -6% | -6% | 7.3 | 7.4 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.1 | -6% | -6% |
| 89 | April | 6.3 | 6.3 | 0% | 0% | 13.6 | 13.4 | -1% | -1% | 18.8 | 19.2 | 2% | 2% | 16.1 | 20.3 | 26% | 26% | 2.8 | 0.0 | -100% | -41% | 6.8 | 6.4 | -7% | -4% |
| 89 | May | 13.1 | 13.0 | -1% | 0% | 28.1 | 27.6 | -2% | -1% | 34.7 | 35.8 | 3% | 1% | 24.5 | 28.8 | 18% | 6% | 6.3 | 3.0 | -53% | -9% | 14.0 | 13.2 | -6% | -2% |
| 89 | June | 4.8 | 4.8 | 0% | 0% | 9.9 | 9.7 | -1% | 0% | 13.6 | 12.9 | -5% | -1% | 10.1 | 9.4 | -7% | -1% | 2.8 | 0.3 | -89% | -5% | 4.9 | 4.7 | -4% | 0% |
| 89 | July | 4.3 | 4.3 | 0% | 0% | 9.2 | 9.0 | -1% | 0% | 12.6 | 12.0 | -5% | -1% | 9.4 | 8.6 | -8% | -3% | 2.8 | 0.4 | -86% | -18% | 4.6 | 4.4 | -4% | -1% |
| 89 | August | 3.8 | 3.8 | 1% | 1% | 8.1 | 8.1 | 0% | 0% | 11.5 | 11.0 | -4% | -4% | 8.7 | 8.0 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.1 | 4.0 | -2% | -2% |
| 89 | September | 3.3 | 3.3 | 1% | 1% | 7.1 | 7.1 | 0% | 0% | 10.2 | 9.8 | -4% | -4% | 7.6 | 7.1 | -5% | -5% | 2.3 | 0.1 | -96% | -96% | 3.8 | 3.7 | -2% | -2% |
| 89 | October | 4.7 | 4.7 | 0% | 0% | 9.8 | 9.8 | 0% | 0% | 13.7 | 13.7 | 0% | 0% | 10.9 | 12.0 | 10% | 10% | 2.6 | 0.0 | -100% | -100% | 4.8 | 4.6 | -4% | -4% |
| 89 | November | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 10.2 | 10.1 | -1% | -1% | 7.5 | 7.3 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.8 | 3.9 | 5% | 5% |
| 89 | December | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.0 | 2% | 2% | 9.7 | 9.5 | -2% | -2% | 6.8 | 6.7 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.6 | 1% | 1% |
| 90 | January | 2.8 | 2.8 | -1% | -1% | 6.4 | 6.8 | 6% | 6% | 9.0 | 9.2 | 1% | 1% | 6.2 | 6.2 | 0% | 0% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 10% | 10% |
| 90 | February | 3.2 | 3.2 | 1% | 1% | 7.0 | 7.1 | 1% | 1% | 9.8 | 9.9 | 1% | 1% | 7.2 | 8.0 | 12% | 12% | 2.1 | 0.0 | -100% | -100% | 3.9 | 3.9 | -1% | -1% |
| 90 | March | 2.9 | 2.8 | -1% | -1% | 6.3 | 6.8 | 7% | 7% | 8.9 | 9.2 | 3% | 3% | 6.1 | 6.2 | 2% | 2% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 90 | April | 17.9 | 17.8 | -1% | -1% | 39.5 | 39.4 | 0% | 0% | 47.1 | 49.0 | 4% | 4% | 32.5 | 39.4 | 21% | 21% | 10.6 | 6.3 | -40% | -40% | 21.0 | 20.3 | -4% | -4% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | May | 67.7 | 67.8 | 0% | 0% | 147.8 | 148.7 | 1% | 1% | 177.5 | 184.0 | 4% | 4% | 120.9 | 122.2 | 1% | 1% | 46.0 | 37.6 | -18% | -18% | 77.1 | 76.0 | -1% | -1% |
| 90 | June | 65.3 | 65.4 | 0% | 0% | 139.4 | 140.6 | 1% | 1% | 173.8 | 175.4 | 1% | 1% | 127.3 | 125.9 | -1% | -1% | 43.7 | 35.6 | -19% | -17% | 73.7 | 73.2 | -1% | -1% |
| 90 | July | 7.0 | 7.2 | 2% | 1% | 14.1 | 14.5 | 3% | 1% | 20.9 | 19.5 | -7% | -3% | 15.8 | 14.1 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.8 | 4% | 1% |
| 90 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.7 | -1% | -1% | 17.6 | 15.9 | -10% | -10% | 13.4 | 11.9 | -11% | -11% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.4 | -3% | -3% |
| 90 | September | 4.9 | 4.9 | -1% | -1% | 9.8 | 9.8 | 0% | 0% | 15.0 | 13.5 | -10% | -10% | 11.7 | 10.4 | -11% | -11% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -1% | -1% |
| 90 | October | 7.4 | 7.4 | 0% | 0% | 15.1 | 15.0 | -1% | -1% | 21.5 | 20.5 | -5% | -5% | 17.7 | 18.6 | 5% | 5% | 3.4 | 0.2 | -94% | -94% | 7.2 | 6.8 | -6% | -6% |
| 90 | November | 5.1 | 5.0 | -1% | -1% | 10.3 | 10.6 | 3% | 3% | 15.3 | 14.4 | -6% | -6% | 11.8 | 10.8 | -9% | -9% | 3.0 | 0.3 | -90% | -90% | 5.0 | 5.3 | 7% | 7% |
| 90 | December | 4.5 | 4.5 | 0% | 0% | 9.2 | 9.6 | 4% | 4% | 13.9 | 13.2 | -5% | -5% | 10.5 | 9.6 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.5 | 4.8 | 8% | 8% |
| 91 | January | 3.9 | 3.9 | -1% | -1% | 8.2 | 8.5 | 5% | 5% | 12.4 | 11.9 | -4% | -4% | 9.4 | 8.8 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.4 | 9% | 9% |
| 91 | February | 3.2 | 3.2 | -1% | -1% | 6.9 | 7.3 | 6% | 6% | 10.6 | 10.3 | -3% | -3% | 8.0 | 7.6 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.1 | 10% | 10% |
| 91 | March | 3.1 | 3.1 | 0% | 0% | 6.8 | 7.0 | 3% | 3% | 10.3 | 9.9 | -4% | -4% | 7.7 | 7.4 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.7 | 5% | 5% |
| 91 | April | 38.8 | 38.7 | 0% | 0% | 86.0 | 86.3 | 0% | 0% | 102.8 | 107.3 | 4% | 4% | 69.3 | 75.7 | 9% | 9% | 26.6 | 20.1 | -24% | -24% | 46.5 | 45.6 | -2% | -2% |
| 91 | May | 75.1 | 75.2 | 0% | 0% | 162.5 | 164.0 | 1% | 1% | 200.8 | 205.3 | 2% | 2% | 144.2 | 144.2 | 0% | 0% | 49.9 | 41.1 | -18% | -18% | 84.1 | 83.6 | -1% | -1% |
| 91 | June | 61.3 | 61.3 | 0% | 0% | 130.1 | 131.0 | 1% | 1% | 164.5 | 164.6 | 0% | 0% | 121.2 | 119.3 | -2% | -2% | 40.5 | 32.8 | -19% | -16% | 68.5 | 67.8 | -1% | -1% |
| 91 | July | 7.0 | 7.1 | 2% | 1% | 14.1 | 14.5 | 3% | 1% | 21.2 | 19.8 | -7% | -3% | 16.0 | 14.1 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.8 | 4% | 1% |
| 91 | August | 5.8 | 5.8 | 0% | 0% | 11.7 | 11.6 | -1% | -1% | 17.7 | 16.0 | -10% | -10% | 13.4 | 11.9 | -11% | -11% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.4 | -2% | -2% |
| 91 | September | 4.9 | 4.9 | 0% | 0% | 9.8 | 9.8 | 0% | 0% | 15.1 | 13.7 | -9% | -9% | 11.7 | 10.4 | -11% | -11% | 2.9 | 0.4 | -86% | -86% | 4.7 | 4.7 | -1% | -1% |
| 91 | October | 6.6 | 6.7 | 0% | 0% | 13.5 | 13.4 | -1% | -1% | 19.7 | 18.5 | -6% | -6% | 16.1 | 16.6 | 3% | 3% | 3.2 | 0.2 | -94% | -94% | 6.4 | 6.0 | -5% | -5% |
| 91 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 10.0 | 5% | 5% | 14.4 | 13.7 | -5% | -5% | 11.2 | 10.2 | -9% | -9% | 2.8 | 0.2 | -93% | -93% | 4.7 | 5.1 | 9% | 9% |
| 91 | December | 4.2 | 4.2 | -1% | -1% | 8.6 | 9.4 | 9% | 9% | 13.2 | 13.0 | -2% | -2% | 10.1 | 9.3 | -8% | -8% | 2.5 | 0.1 | -96% | -96% | 4.2 | 5.0 | 19% | 19% |
| 92 | January | 3.7 | 3.7 | -1% | -1% | 7.7 | 8.3 | 7% | 7% | 12.0 | 11.7 | -3% | -3% | 9.0 | 8.5 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.4 | 14% | 14% |
| 92 | February | 3.0 | 2.9 | -1% | -1% | 6.4 | 6.5 | 2% | 2% | 9.9 | 9.3 | -6% | -6% | 7.5 | 7.1 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 4% | 4% |
| 92 | March | 3.0 | 2.9 | -1% | -1% | 6.5 | 6.7 | 4% | 4% | 10.0 | 9.7 | -4% | -4% | 7.5 | 7.3 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.3 | 3.5 | 6% | 6% |
| 92 | April | 16.3 | 16.2 | -1% | -1% | 36.1 | 35.8 | -1% | -1% | 44.2 | 45.5 | 3% | 3% | 32.2 | 38.7 | 20% | 20% | 9.5 | 5.3 | -44% | -44% | 19.2 | 18.3 | -5% | -5% |
| 92 | May | 91.9 | 91.8 | 0% | 0% | 200.3 | 201.3 | 1% | 1% | 244.7 | 251.4 | 3% | 3% | 170.7 | 171.3 | 0% | 0% | 62.6 | 52.2 | -17% | -17% | 104.4 | 103.0 | -1% | -1% |
| 92 | June | 58.5 | 58.6 | 0% | 0% | 124.0 | 125.3 | 1% | 1% | 156.5 | 157.1 | 0% | 0% | 115.2 | 113.5 | -1% | -1% | 38.6 | 31.1 | -19% | -15% | 65.2 | 64.9 | 0% | 0% |
| 92 | July | 6.9 | 7.0 | 1% | 1% | 13.9 | 14.3 | 3% | 1% | 20.9 | 19.5 | -7% | -3% | 15.8 | 14.0 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.7 | 4% | 1% |
| 92 | August | 5.7 | 5.8 | 1% | 1% | 11.5 | 11.5 | 0% | 0% | 17.5 | 15.8 | -9% | -9% | 13.3 | 11.8 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 92 | September | 5.0 | 5.0 | 0% | 0% | 9.9 | 9.9 | -1% | -1% | 15.2 | 13.7 | -10% | -10% | 11.9 | 10.7 | -10% | -10% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -3% | -3% |
| 92 | October | 7.7 | 7.7 | 0% | 0% | 15.9 | 15.7 | -1% | -1% | 22.5 | 22.4 | -1% | -1% | 18.6 | 19.8 | 6% | 6% | 3.4 | 0.2 | -94% | -94% | 7.5 | 7.1 | -5% | -5% |
| 92 | November | 4.9 | 4.9 | -1% | -1% | 9.9 | 10.1 | 1% | 1% | 14.9 | 13.8 | -7% | -7% | 11.5 | 10.5 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.0 | 2% | 2% |
| 92 | December | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.1 | 1% | 1% | 13.7 | 12.7 | -8% | -8% | 10.4 | 9.5 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.4 | 1% | 1% |
| 93 | January | 3.9 | 3.8 | -1% | -1% | 8.0 | 8.5 | 6% | 6% | 12.3 | 11.8 | -4% | -4% | 9.3 | 8.7 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.4 | 11% | 11% |
| 93 | February | 3.1 | 3.1 | -1% | -1% | 6.6 | 6.8 | 3% | 3% | 10.2 | 9.7 | -5% | -5% | 7.7 | 7.3 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.9 | 6% | 6% |
| 93 | March | 3.1 | 3.0 | -1% | -1% | 6.7 | 6.9 | 3% | 3% | 10.3 | 9.9 | -4% | -4% | 7.7 | 7.4 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 93 | April | 10.3 | 10.3 | 0% | 0% | 22.6 | 22.2 | -2% | -2% | 29.2 | 29.7 | 2% | 2% | 22.3 | 27.8 | 24% | 24% | 5.2 | 1.6 | -69% | -53% | 11.8 | 11.0 | -7% | -7% |
| 93 | May | 55.8 | 55.8 | 0% | 0% | 122.3 | 122.8 | 0% | 0% | 147.0 | 152.0 | 3% | 3% | 99.1 | 101.5 | 2% | 2% | 38.1 | 30.7 | -19% | -19% | 63.9 | 62.8 | -2% | -2% |
| 93 | June | 39.5 | 39.6 | 0% | 0% | 84.3 | 85.0 | 1% | 1% | 105.3 | 106.7 | 1% | 1% | 76.9 | 77.1 | 0% | 0% | 26.1 | 20.2 | -23% | -12% | 44.4 | 44.0 | -1% | -1% |
| 93 | July | 6.6 | 6.6 | 1% | 0% | 13.5 | 13.6 | 1% | 0% | 20.0 | 18.6 | -7% | -3% | 14.8 | 13.4 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.4 | 0% | 0% |
| 93 | August | 5.5 | 5.6 | 1% | 1% | 11.3 | 11.2 | 0% | 0% | 17.0 | 15.4 | -9% | -9% | 12.8 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -2% | -2% |
| 93 | September | 8.5 | 8.5 | 0% | 0% | 17.8 | 17.6 | -1% | -1% | 24.6 | 23.6 | -4% | -4% | 20.4 | 21.6 | 6% | 6% | 4.0 | 0.6 | -85% | -85% | 8.9 | 8.4 | -5% | -5% |
| 93 | October | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 16.3 | 15.0 | -8% | -8% | 12.4 | 11.2 | -10% | -10% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.3 | 0% | 0% |
| 93 | November | 4.5 | 4.5 | 0% | 0% | 9.4 | 9.9 | 5% | 5% | 14.0 | 13.4 | -4% | -4% | 10.6 | 9.6 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.2 | 10% | 10% |
| 93 | December | 4.1 | 4.1 | 0% | 0% | 8.6 | 9.0 | 5% | 5% | 13.0 | 12.4 | -4% | -4% | 9.9 | 9.1 | -8% | -8% | 2.6 | 0.2 | -92% | -92% | 4.2 | 4.6 | 10% | 10% |
| 94 | January | 3.6 | 3.6 | -1% | -1% | 7.7 | 8.1 | 5% | 5% | 11.7 | 11.3 | -4% | -4% | 8.9 | 8.3 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.2 | 9% | 9% |
| 94 | February | 2.9 | 2.9 | 0% | 0% | 6.3 | 7.0 | 11% | 11% | 9.6 | 9.7 | 1% | 1% | 7.3 | 7.0 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.3 | 20% | 20% |
| 94 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.7 | 3% | 3% | 9.8 | 9.5 | -3% | -3% | 7.4 | 7.2 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.5 | 5% | 5% |
| 94 | April | 3.7 | 3.8 | 0% | 0% | 8.0 | 8.0 | -1% | 0% | 11.7 | 11.5 | -1% | -1% | 9.2 | 10.3 | 12% | 7% | 2.2 | 0.0 | -100% | -33% | 4.1 | 4.0 | -4% | -2% |
| 94 | May | 55.9 | 55.8 | 0% | 0% | 123.6 | 123.7 | 0% | 0% | 147.9 | 153.7 | 4% | 4% | 99.5 | 105.5 | 6% | 6% | 37.6 | 29.8 | -21% | -21% | 64.9 | 63.3 | -2% | -2% |
| 94 | June | 90.6 | 90.6 | 0% | 0% | 194.6 | 196.2 | 1% | 1% | 241.6 | 245.3 | 2% | 2% | 175.9 | 174.8 | -1% | -1% | 61.6 | 51.3 | -17% | -17% | 103.5 | 102.8 | -1% | -1% |
| 94 | July | 7.3 | 7.5 | 2% | 1% | 14.3 | 14.7 | 3% | 1% | 21.4 | 20.0 | -6% | -3% | 16.5 | 14.9 | -9% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 6.7 | 4% | 1% |
| 94 | August | 6.0 | 6.0 | 0% | 0% | 11.9 | 11.8 | -1% | -1% | 17.9 | 16.2 | -10% | -10% | 13.8 | 12.5 | -10% | -10% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.3 | -3% | -3% |
| 94 | September | 5.0 | 5.0 | 0% | 0% | 10.0 | 9.9 | 0% | 0% | 15.2 | 13.7 | -10% | -10% | 12.0 | 10.8 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.8 | 4.7 | -1% | -1% |
| 94 | October | 4.9 | 4.9 | 0% | 0% | 9.7 | 9.6 | -1% | -1% | 14.9 | 13.5 | -10% | -10% | 11.8 | 10.9 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.4 | -4% | -4% |
| 94 | November | 4.6 | 4.6 | 0% | 0% | 9.1 | 9.1 | 1% | 1% | 13.9 | 13.2 | -5% | -5% | 11.0 | 10.4 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.4 | 0% | 0% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94 | December | 4.1 | 4.1 | -1% | -1% | 8.4 | 8.5 | 2% | 2% | 12.9 | 12.0 | -7% | -7% | 10.0 | 9.5 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 95 | January | 3.6 | 3.6 | 0% | 0% | 7.5 | 7.9 | 5% | 5% | 11.7 | 11.1 | -5% | -5% | 8.8 | 8.5 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 9% | 9% |
| 95 | February | 3.0 | 3.0 | 0% | 0% | 6.4 | 6.8 | 5% | 5% | 10.0 | 9.6 | -4% | -4% | 7.5 | 7.4 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 95 | March | 2.9 | 2.9 | -1% | -1% | 6.3 | 6.5 | 2% | 2% | 9.8 | 9.3 | -5% | -5% | 7.3 | 7.3 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 95 | April | 25.2 | 25.1 | 0% | 0% | 55.9 | 55.5 | -1% | -1% | 66.5 | 69.2 | 4% | 4% | 46.9 | 54.1 | 15% | 15% | 15.8 | 10.8 | -32% | -32% | 29.9 | 28.7 | -4% | -4% |
| 95 | May | 42.3 | 42.4 | 0% | 0% | 91.4 | 91.8 | 0% | 0% | 112.0 | 114.6 | 2% | 2% | 77.1 | 78.6 | 2% | 2% | 27.5 | 21.5 | -22% | -16% | 47.0 | 46.2 | -2% | -1% |
| 95 | June | 19.0 | 19.2 | 1% | 0% | 39.7 | 39.7 | 0% | 0% | 50.6 | 50.4 | 0% | 0% | 38.0 | 38.6 | 2% | 1% | 11.2 | 7.2 | -36% | -8% | 20.3 | 19.8 | -3% | -1% |
| 95 | July | 6.3 | 6.4 | 1% | 0% | 13.1 | 13.1 | 0% | 0% | 19.3 | 17.8 | -8% | -3% | 14.2 | 13.0 | -9% | -4% | 3.7 | 0.8 | -78% | -21% | 6.3 | 6.2 | -1% | 0% |
| 95 | August | 5.4 | 5.3 | 0% | 0% | 11.0 | 10.9 | -1% | -1% | 16.5 | 15.1 | -9% | -9% | 12.4 | 11.2 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.3 | 5.2 | -2% | -2% |
| 95 | September | 5.9 | 6.0 | 1% | 1% | 12.2 | 12.0 | -2% | -2% | 17.8 | 16.7 | -6% | -6% | 14.1 | 14.0 | -1% | -1% | 3.4 | 0.4 | -88% | -88% | 6.1 | 5.7 | -6% | -6% |
| 95 | October | 11.5 | 11.4 | 0% | 0% | 24.3 | 24.2 | -1% | -1% | 31.8 | 31.4 | -1% | -1% | 25.5 | 27.9 | 9% | 9% | 5.4 | 1.7 | -69% | -69% | 12.0 | 11.6 | -3% | -3% |
| 95 | November | 5.4 | 5.4 | 0% | 0% | 11.3 | 11.4 | 1% | 1% | 16.3 | 15.3 | -6% | -6% | 12.2 | 11.2 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.7 | 1% | 1% |
| 95 | December | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.2 | 1% | 1% | 14.7 | 13.9 | -5% | -5% | 11.0 | 10.1 | -8% | -8% | 3.2 | 0.5 | -85% | -85% | 5.0 | 5.1 | 0% | 0% |
| 96 | January | 4.2 | 4.2 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 13.1 | 12.4 | -5% | -5% | 10.0 | 9.2 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.5 | 4.5 | 0% | 0% |
| 96 | February | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.3 | 1% | 1% | 10.7 | 10.2 | -4% | -4% | 8.2 | 7.7 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.1 | 4.1 | 0% | 0% |
| 96 | March | 3.6 | 3.6 | 0% | 0% | 7.9 | 7.9 | 0% | 0% | 11.6 | 11.2 | -3% | -3% | 8.8 | 8.6 | -3% | -3% | 2.5 | 0.0 | -100% | -100% | 4.0 | 4.0 | -1% | -1% |
| 96 | April | 8.5 | 8.5 | 0% | 0% | 18.2 | 17.9 | -1% | -1% | 24.0 | 24.4 | 2% | 2% | 19.1 | 23.2 | 21% | 21% | 3.9 | 0.4 | -90% | -52% | 9.3 | 8.7 | -6% | -5% |
| 96 | May | 16.7 | 16.6 | -1% | 0% | 36.1 | 35.5 | -2% | -1% | 43.3 | 43.6 | 1% | 0% | 30.0 | 33.1 | 10% | 5% | 10.0 | 6.0 | -40% | -11% | 18.3 | 17.4 | -5% | -2% |
| 96 | June | 6.0 | 6.0 | 1% | 0% | 12.6 | 12.5 | -2% | 0% | 17.3 | 16.6 | -4% | -1% | 12.7 | 12.2 | -4% | -1% | 3.8 | 0.8 | -79% | -6% | 6.4 | 6.1 | -5% | 0% |
| 96 | July | 5.2 | 5.2 | 0% | 0% | 11.0 | 10.9 | -1% | 0% | 15.3 | 14.6 | -5% | -2% | 11.3 | 10.5 | -7% | -3% | 3.4 | 0.6 | -83% | -20% | 5.4 | 5.3 | -3% | -1% |
| 96 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.5 | 0% | 0% | 13.5 | 13.1 | -3% | -3% | 10.0 | 9.3 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 4.8 | 4.7 | -2% | -2% |
| 96 | September | 3.8 | 3.8 | 0% | 0% | 8.2 | 8.1 | -1% | -1% | 11.7 | 11.3 | -4% | -4% | 8.9 | 8.3 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.2 | -2% | -2% |
| 96 | October | 7.6 | 7.6 | 0% | 0% | 16.0 | 15.8 | -1% | -1% | 21.4 | 21.6 | 1% | 1% | 17.1 | 19.8 | 16% | 16% | 3.4 | 0.1 | -97% | -97% | 7.7 | 7.3 | -6% | -6% |
| 96 | November | 4.7 | 4.8 | 0% | 0% | 10.0 | 10.2 | 2% | 2% | 13.8 | 13.6 | -1% | -1% | 10.2 | 9.7 | -4% | -4% | 3.0 | 0.2 | -93% | -93% | 5.1 | 5.2 | 2% | 2% |
| 96 | December | 4.2 | 4.2 | -1% | -1% | 9.1 | 9.4 | 3% | 3% | 12.7 | 13.6 | 7% | 7% | 9.2 | 8.8 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.9 | 6% | 6% |
| 97 | January | 3.7 | 3.7 | 1% | 1% | 8.1 | 8.4 | 4% | 4% | 11.4 | 11.4 | 0% | 0% | 8.2 | 8.0 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 5% | 5% |
| 97 | February | 3.1 | 3.0 | 0% | 0% | 6.8 | 6.8 | 1% | 1% | 9.5 | 9.4 | -2% | -2% | 6.8 | 6.7 | -2% | -2% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.0 | 2% | 2% |
| 97 | March | 3.1 | 3.1 | -1% | -1% | 6.9 | 7.2 | 4% | 4% | 9.8 | 9.8 | 0% | 0% | 6.9 | 6.9 | 0% | 0% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 6% | 6% |
| 97 | April | 21.8 | 21.7 | -1% | -1% | 48.2 | 47.9 | -1% | -1% | 56.8 | 59.1 | 4% | 4% | 38.5 | 45.2 | 17% | 17% | 13.9 | 8.9 | -36% | -36% | 25.8 | 24.8 | -4% | -4% |
| 97 | May | 34.9 | 35.0 | 0% | 0% | 75.2 | 75.3 | 0% | 0% | 90.7 | 93.4 | 3% | 2% | 60.1 | 61.9 | 3% | 3% | 22.7 | 17.2 | -24% | -15% | 38.6 | 37.7 | -2% | -2% |
| 97 | June | 31.6 | 31.6 | 0% | 0% | 67.6 | 67.5 | 0% | 0% | 83.8 | 84.5 | 1% | 1% | 60.5 | 60.8 | 1% | 0% | 20.8 | 15.5 | -25% | -11% | 35.6 | 34.8 | -2% | -1% |
| 97 | July | 6.5 | 6.6 | 1% | 0% | 13.6 | 13.8 | 1% | 0% | 19.6 | 18.6 | -5% | -2% | 14.6 | 13.2 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.7 | 1% | 0% |
| 97 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 16.8 | 15.5 | -8% | -8% | 12.6 | 11.3 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.4 | -2% | -2% |
| 97 | September | 4.7 | 4.7 | 0% | 0% | 9.7 | 9.6 | 0% | 0% | 14.4 | 13.3 | -8% | -8% | 11.0 | 10.0 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.8 | -1% | -1% |
| 97 | October | 4.3 | 4.3 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.4 | 12.4 | -8% | -8% | 10.4 | 9.5 | -9% | -9% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.3 | -1% | -1% |
| 97 | November | 3.7 | 3.7 | -1% | -1% | 7.8 | 7.8 | 1% | 1% | 11.8 | 11.0 | -7% | -7% | 9.2 | 8.5 | -7% | -7% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.0 | 2% | 2% |
| 97 | December | 3.4 | 3.4 | -1% | -1% | 7.3 | 7.8 | 7% | 7% | 11.1 | 10.9 | -2% | -2% | 8.6 | 8.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 13% | 13% |
| 98 | January | 3.0 | 3.0 | 0% | 0% | 6.6 | 7.1 | 7% | 7% | 10.1 | 10.0 | -1% | -1% | 7.8 | 7.5 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 13% | 13% |
| 98 | February | 2.5 | 2.5 | -1% | -1% | 5.6 | 5.8 | 3% | 3% | 8.5 | 8.2 | -3% | -3% | 6.3 | 6.2 | -2% | -2% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.4 | 5% | 5% |
| 98 | March | 2.7 | 2.7 | 0% | 0% | 6.1 | 6.5 | 6% | 6% | 9.2 | 9.2 | 0% | 0% | 6.8 | 6.9 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.5 | 11% | 11% |
| 98 | April | 28.6 | 28.5 | 0% | 0% | 63.4 | 63.4 | 0% | 0% | 75.0 | 78.8 | 5% | 5% | 51.5 | 58.9 | 14% | 14% | 18.5 | 13.2 | -29% | -29% | 34.1 | 33.1 | -3% | -3% |
| 98 | May | 66.0 | 66.1 | 0% | 0% | 143.5 | 144.4 | 1% | 1% | 175.5 | 180.0 | 3% | 3% | 123.1 | 124.1 | 1% | 1% | 44.0 | 36.0 | -18% | -18% | 74.5 | 73.6 | -1% | -1% |
| 98 | June | 40.3 | 40.4 | 0% | 0% | 85.1 | 85.6 | 0% | 0% | 107.2 | 107.6 | 0% | 0% | 79.4 | 78.9 | -1% | -1% | 25.9 | 20.1 | -22% | -12% | 44.4 | 43.8 | -1% | -1% |
| 98 | July | 6.7 | 6.8 | 1% | 0% | 13.6 | 13.9 | 2% | 1% | 20.2 | 18.9 | -7% | -3% | 15.1 | 13.6 | -10% | -5% | 3.7 | 0.8 | -78% | -20% | 6.4 | 6.6 | 2% | 1% |
| 98 | August | 5.6 | 5.7 | 1% | 1% | 11.4 | 11.3 | 0% | 0% | 17.1 | 15.6 | -9% | -9% | 13.0 | 11.6 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.2 | -2% | -2% |
| 98 | September | 4.8 | 4.7 | 0% | 0% | 9.6 | 9.6 | 0% | 0% | 14.7 | 13.3 | -10% | -10% | 11.4 | 10.2 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -1% | -1% |
| 98 | October | 4.4 | 4.3 | -1% | -1% | 8.8 | 8.8 | 0% | 0% | 13.7 | 12.4 | -10% | -10% | 10.6 | 9.6 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.1 | -1% | -1% |
| 98 | November | 3.8 | 3.8 | -1% | -1% | 7.7 | 7.9 | 2% | 2% | 12.1 | 11.2 | -7% | -7% | 9.4 | 8.6 | -8% | -8% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 5% | 5% |
| 98 | December | 3.5 | 3.5 | -1% | -1% | 7.3 | 7.7 | 6% | 6% | 11.4 | 10.9 | -5% | -5% | 8.7 | 8.1 | -6% | -6% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.9 | 10% | 10% |
| 99 | January | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.9 | 6% | 6% | 10.3 | 9.9 | -4% | -4% | 7.9 | 7.6 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.3 | 3.7 | 10% | 10% |
| 99 | February | 2.6 | 2.5 | -1% | -1% | 5.7 | 5.9 | 4% | 4% | 8.9 | 8.5 | -4% | -4% | 6.7 | 6.5 | -3% | -3% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 7% | 7% |
| 99 | March | 9.2 | 9.2 | 0% | 0% | 20.1 | 19.7 | -2% | -2% | 26.5 | 27.0 | 2% | 2% | 21.2 | 26.8 | 27% | 27% | 3.9 | 0.7 | -82% | -82% | 10.0 | 9.1 | -9% | -9% |
| 99 | April | 25.6 | 25.5 | 0% | 0% | 55.7 | 55.5 | 0% | 0% | 65.6 | 67.8 | 3% | 3% | 44.8 | 48.1 | 8% | 8% | 16.7 | 12.1 | -28% | -28% | 29.6 | 28.7 | -3% | -3% |
| 99 | May | 53.6 | 53.7 | 0% | 0% | 116.5 | 117.3 | 1% | 1% | 143.1 | 146.8 | 3% | 3% | 99.8 | 100.1 | 0% | 0% | 36.0 | 29.0 | -19% | -19% | 60.4 | 59.7 | -1% | -1% |
| 99 | June | 12.4 | 12.6 | 1% | 0% | 25.5 | 25.7 | 1% | 0% | 33.5 | 33.0 | -2% | 0% | 26.2 | 26.2 | 0% | 0% | 6.6 | 3.0 | -54% | -7% | 12.7 | 12.6 | -1% | 0% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 99 | July | 6.3 | 6.3 | 0% | 0% | 13.0 | 12.9 | -1% | 0% | 19.1 | 17.6 | -8% | -4% | 14.2 | 12.9 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.3 | 6.1 | -3% | -1% |
| 99 | August | 5.4 | 5.3 | -1% | -1% | 11.0 | 10.9 | -1% | -1% | 16.5 | 15.0 | -9% | -9% | 12.3 | 11.1 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.2 | -3% | -3% |
| 99 | September | 6.5 | 6.6 | 0% | 0% | 13.5 | 13.2 | -2% | -2% | 19.3 | 18.2 | -5% | -5% | 15.4 | 15.6 | 2% | 2% | 3.5 | 0.5 | -86% | -86% | 6.7 | 6.3 | -6% | -6% |
| 99 | October | 6.5 | 6.5 | 0% | 0% | 13.4 | 13.2 | -2% | -2% | 19.1 | 18.1 | -6% | -6% | 15.0 | 14.9 | 0% | 0% | 3.5 | 0.5 | -86% | -86% | 6.5 | 6.1 | -5% | -5% |
| 99 | November | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.1 | 0% | 0% | 14.7 | 13.8 | -7% | -7% | 11.2 | 10.3 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.1 | -1% | -1% |
| 99 | December | 4.3 | 4.2 | 0% | 0% | 9.0 | 9.2 | 2% | 2% | 13.3 | 12.7 | -5% | -5% | 10.2 | 9.4 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.6 | 3% | 3% |
| 100 | January | 3.7 | 3.7 | 0% | 0% | 8.0 | 8.1 | 1% | 1% | 12.0 | 11.4 | -5% | -5% | 9.1 | 8.6 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | 2% | 2% |
| 100 | February | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.6 | -1% | -1% | 9.9 | 9.4 | -5% | -5% | 7.5 | 7.2 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.7 | -2% | -2% |
| 100 | March | 3.5 | 3.5 | 0% | 0% | 7.5 | 7.7 | 2% | 2% | 11.0 | 10.9 | -1% | -1% | 8.3 | 8.3 | 0% | 0% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 100 | April | 10.5 | 10.4 | 0% | 0% | 22.8 | 22.4 | -2% | -2% | 29.1 | 29.8 | 2% | 2% | 22.1 | 27.5 | 24% | 24% | 5.1 | 1.5 | -71% | -54% | 11.8 | 11.0 | -7% | -7% |
| 100 | May | 32.2 | 32.2 | 0% | 0% | 69.9 | 69.9 | 0% | 0% | 83.0 | 85.9 | 4% | 3% | 55.3 | 58.4 | 6% | 5% | 21.1 | 15.7 | -26% | -14% | 36.1 | 35.1 | -3% | -2% |
| 100 | June | 14.6 | 14.7 | 1% | 0% | 30.7 | 30.7 | 0% | 0% | 38.3 | 38.4 | 0% | 0% | 28.0 | 28.6 | 2% | 1% | 8.4 | 4.6 | -45% | -8% | 15.7 | 15.3 | -2% | 0% |
| 100 | July | 6.1 | 6.2 | 0% | 0% | 12.9 | 12.8 | 0% | 0% | 18.4 | 17.3 | -6% | -3% | 13.4 | 12.2 | -9% | -4% | 3.8 | 0.9 | -76% | -21% | 6.3 | 6.2 | -1% | 0% |
| 100 | August | 5.3 | 5.2 | -1% | -1% | 11.0 | 10.9 | -1% | -1% | 15.9 | 14.9 | -6% | -6% | 11.9 | 10.8 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.4 | 5.3 | -2% | -2% |
| 100 | September | 4.4 | 4.4 | 1% | 1% | 9.3 | 9.3 | 0% | 0% | 13.7 | 12.9 | -6% | -6% | 10.5 | 9.6 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 100 | October | 5.0 | 5.0 | -1% | -1% | 10.5 | 10.3 | -2% | -2% | 15.1 | 14.5 | -5% | -5% | 12.1 | 12.0 | -1% | -1% | 3.0 | 0.2 | -93% | -93% | 5.1 | 4.9 | -5% | -5% |
| 100 | November | 4.0 | 4.0 | 0% | 0% | 8.5 | 8.8 | 3% | 3% | 12.5 | 12.2 | -3% | -3% | 9.7 | 9.1 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.7 | 6% | 6% |
| 100 | December | 3.6 | 3.6 | -1% | -1% | 7.9 | 8.4 | 6% | 6% | 11.6 | 11.6 | 0% | 0% | 8.8 | 8.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.5 | 12% | 12% |
| 101 | January | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.9 | 10% | 10% | 10.6 | 11.0 | 4% | 4% | 8.0 | 7.8 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.4 | 19% | 19% |
| 101 | February | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.2 | 3% | 3% | 8.9 | 8.8 | -1% | -1% | 6.5 | 6.5 | 0% | 0% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 5% | 5% |
| 101 | March | 2.7 | 2.7 | -1% | -1% | 6.2 | 6.5 | 5% | 5% | 9.1 | 9.2 | 1% | 1% | 6.6 | 6.6 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 9% | 9% |
| 101 | April | 52.2 | 52.1 | 0% | 0% | 115.9 | 116.4 | 0% | 0% | 138.2 | 144.8 | 5% | 5% | 92.1 | 98.9 | 7% | 7% | 36.4 | 28.6 | -21% | -21% | 62.9 | 61.8 | -2% | -2% |
| 101 | May | 85.4 | 85.4 | 0% | 0% | 183.5 | 185.0 | 1% | 1% | 227.1 | 231.3 | 2% | 2% | 165.1 | 164.6 | 0% | 0% | 56.1 | 46.4 | -17% | -17% | 94.6 | 93.8 | -1% | -1% |
| 101 | June | 50.4 | 50.5 | 0% | 0% | 106.5 | 107.4 | 1% | 1% | 135.1 | 135.1 | 0% | 0% | 100.1 | 98.5 | -2% | -2% | 32.7 | 26.0 | -21% | -14% | 55.7 | 55.3 | -1% | 0% |
| 101 | July | 7.0 | 7.1 | 2% | 1% | 14.0 | 14.5 | 4% | 1% | 21.1 | 19.9 | -6% | -3% | 15.9 | 14.1 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.8 | 5% | 2% |
| 101 | August | 5.8 | 5.7 | 0% | 0% | 11.6 | 11.5 | -1% | -1% | 17.6 | 15.9 | -10% | -10% | 13.3 | 11.9 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.5 | 5.4 | -2% | -2% |
| 101 | September | 4.9 | 4.9 | 1% | 1% | 9.8 | 9.9 | 1% | 1% | 15.0 | 13.7 | -9% | -9% | 11.7 | 10.4 | -11% | -11% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.7 | -1% | -1% |
| 101 | October | 4.7 | 4.7 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 14.7 | 13.2 | -10% | -10% | 11.5 | 10.5 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.3 | -3% | -3% |
| 101 | November | 4.1 | 4.0 | -1% | -1% | 8.2 | 8.7 | 5% | 5% | 12.8 | 12.1 | -6% | -6% | 10.0 | 9.2 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.5 | 11% | 11% |
| 101 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 8.0 | 4% | 4% | 12.1 | 11.3 | -6% | -6% | 9.2 | 8.7 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 8% | 8% |
| 102 | January | 3.3 | 3.3 | 0% | 0% | 7.0 | 7.1 | 1% | 1% | 11.0 | 10.2 | -8% | -8% | 8.3 | 7.9 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 1% | 1% |
| 102 | February | 2.7 | 2.6 | -1% | -1% | 5.8 | 6.1 | 5% | 5% | 9.1 | 8.7 | -4% | -4% | 6.9 | 6.6 | -3% | -3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 9% | 9% |
| 102 | March | 10.3 | 10.2 | 0% | 0% | 22.5 | 21.9 | -2% | -2% | 29.4 | 29.6 | 1% | 1% | 22.9 | 28.6 | 25% | 25% | 4.5 | 1.2 | -73% | -73% | 11.3 | 10.3 | -9% | -9% |
| 102 | April | 24.3 | 24.3 | 0% | 0% | 52.7 | 52.5 | 0% | 0% | 62.4 | 64.3 | 3% | 3% | 43.0 | 46.1 | 7% | 7% | 15.7 | 11.2 | -29% | -29% | 27.9 | 27.1 | -3% | -3% |
| 102 | May | 33.4 | 33.5 | 0% | 0% | 71.7 | 71.8 | 0% | 0% | 88.6 | 90.1 | 2% | 1% | 61.1 | 61.7 | 1% | 1% | 21.6 | 16.3 | -25% | -14% | 36.7 | 35.8 | -2% | -2% |
| 102 | June | 7.0 | 7.1 | 1% | 0% | 14.7 | 14.6 | -1% | 0% | 21.1 | 19.9 | -6% | -1% | 15.8 | 15.1 | -4% | -1% | 4.0 | 0.9 | -78% | -6% | 7.4 | 7.1 | -4% | 0% |
| 102 | July | 5.9 | 5.8 | 0% | 0% | 12.2 | 12.0 | -1% | 0% | 17.8 | 16.4 | -8% | -3% | 13.3 | 12.1 | -9% | -4% | 3.6 | 0.7 | -81% | -21% | 5.9 | 5.7 | -3% | -1% |
| 102 | August | 5.0 | 5.0 | 0% | 0% | 10.3 | 10.3 | -1% | -1% | 15.3 | 14.2 | -7% | -7% | 11.7 | 10.6 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 5.0 | 4.9 | -2% | -2% |
| 102 | September | 6.0 | 6.0 | 1% | 1% | 12.4 | 12.1 | -2% | -2% | 17.7 | 16.9 | -4% | -4% | 14.2 | 14.6 | 3% | 3% | 3.3 | 0.2 | -94% | -94% | 6.1 | 5.8 | -6% | -6% |
| 102 | October | 13.1 | 13.0 | -1% | -1% | 28.2 | 28.0 | -1% | -1% | 35.7 | 35.7 | 0% | 0% | 27.7 | 30.6 | 10% | 10% | 6.7 | 2.8 | -58% | -58% | 14.2 | 13.7 | -3% | -3% |
| 102 | November | 5.5 | 5.5 | 0% | 0% | 11.5 | 11.9 | 3% | 3% | 16.4 | 15.9 | -3% | -3% | 12.3 | 11.3 | -8% | -8% | 3.6 | 0.7 | -80% | -80% | 5.8 | 6.2 | 6% | 6% |
| 102 | December | 4.8 | 4.8 | 0% | 0% | 10.3 | 10.6 | 4% | 4% | 14.7 | 14.3 | -2% | -2% | 11.0 | 10.0 | -8% | -8% | 3.3 | 0.5 | -85% | -85% | 5.1 | 5.4 | 6% | 6% |
| 103 | January | 4.2 | 4.2 | 0% | 0% | 9.1 | 9.5 | 5% | 5% | 13.1 | 13.0 | -1% | -1% | 9.9 | 9.1 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.6 | 5.0 | 9% | 9% |
| 103 | February | 3.5 | 3.5 | 0% | 0% | 7.6 | 7.9 | 4% | 4% | 11.1 | 11.0 | -1% | -1% | 8.4 | 7.9 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 7% | 7% |
| 103 | March | 3.4 | 3.3 | -1% | -1% | 7.4 | 7.6 | 3% | 3% | 10.9 | 10.7 | -2% | -2% | 8.2 | 7.9 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 103 | April | 4.1 | 4.1 | 0% | 0% | 8.8 | 8.8 | 0% | 0% | 12.6 | 12.5 | -1% | 0% | 9.9 | 10.7 | 9% | 5% | 2.5 | 0.0 | -100% | -38% | 4.5 | 4.4 | -3% | -1% |
| 103 | May | 67.6 | 67.5 | 0% | 0% | 149.2 | 149.4 | 0% | 0% | 179.3 | 185.9 | 4% | 4% | 121.7 | 126.9 | 4% | 4% | 46.0 | 37.1 | -19% | -19% | 78.4 | 76.6 | -2% | -2% |
| 103 | June | 53.1 | 53.2 | 0% | 0% | 113.0 | 114.0 | 1% | 1% | 140.8 | 142.9 | 2% | 2% | 102.4 | 102.5 | 0% | 0% | 35.1 | 28.1 | -20% | -14% | 59.6 | 59.1 | -1% | -1% |
| 103 | July | 6.8 | 6.9 | 1% | 1% | 13.6 | 14.0 | 3% | 1% | 20.2 | 19.0 | -6% | -3% | 15.2 | 13.7 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.6 | 4% | 1% |
| 103 | August | 5.7 | 5.7 | 0% | 0% | 11.5 | 11.4 | 0% | 0% | 17.3 | 15.7 | -9% | -9% | 13.1 | 11.8 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.3 | -3% | -3% |
| 103 | September | 4.9 | 4.8 | -1% | -1% | 9.8 | 9.7 | -1% | -1% | 14.9 | 13.4 | -10% | -10% | 11.5 | 10.3 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.7 | -2% | -2% |
| 103 | October | 4.5 | 4.4 | -1% | -1% | 9.0 | 9.0 | 0% | 0% | 13.9 | 12.5 | -10% | -10% | 10.8 | 9.8 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -1% | -1% |
| 103 | November | 4.3 | 4.3 | 0% | 0% | 8.6 | 8.7 | 1% | 1% | 13.2 | 12.3 | -7% | -7% | 10.4 | 9.8 | -6% | -6% | 2.5 | 0.0 | -100% | -100% | 4.2 | 4.3 | 1% | 1% |
| 103 | December | 3.9 | 3.8 | -1% | -1% | 7.9 | 8.2 | 4% | 4% | 12.3 | 11.6 | -5% | -5% | 9.5 | 9.0 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.1 | 7% | 7% |
| 104 | January | 3.4 | 3.4 | -1% | -1% | 7.2 | 7.4 | 2% | 2% | 11.1 | 10.5 | -6% | -6% | 8.4 | 8.1 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 4% | 4% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | February | 2.7 | 2.7 | -1% | -1% | 5.9 | 6.0 | 1% | 1% | 9.2 | 8.6 | -6% | -6% | 7.0 | 6.8 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 1% | 1% |
| 104 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.5 | 6% | 6% | 9.4 | 9.3 | -1% | -1% | 7.0 | 6.9 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.5 | 11% | 11% |
| 104 | April | 15.7 | 15.6 | -1% | -1% | 34.9 | 34.5 | -1% | -1% | 42.8 | 44.1 | 3% | 3% | 31.3 | 38.3 | 22% | 22% | 8.8 | 4.8 | -45% | -45% | 18.5 | 17.6 | -5% | -5% |
| 104 | May | 57.6 | 57.7 | 0% | 0% | 125.6 | 126.2 | 0% | 0% | 151.5 | 156.9 | 4% | 4% | 103.5 | 105.2 | 2% | 2% | 38.7 | 31.3 | -19% | -19% | 65.3 | 64.3 | -2% | -2% |
| 104 | June | 38.4 | 38.5 | 0% | 0% | 81.6 | 82.3 | 1% | 1% | 102.1 | 103.3 | 1% | 1% | 75.1 | 75.2 | 0% | 0% | 25.0 | 19.3 | -23% | -12% | 42.8 | 42.4 | -1% | -1% |
| 104 | July | 6.6 | 6.6 | 1% | 1% | 13.4 | 13.7 | 2% | 1% | 19.9 | 18.6 | -6% | -3% | 14.8 | 13.4 | -9% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 6.5 | 2% | 1% |
| 104 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.2 | -1% | -1% | 17.0 | 15.4 | -10% | -10% | 12.9 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.2 | -3% | -3% |
| 104 | September | 4.7 | 4.7 | 0% | 0% | 9.5 | 9.5 | 0% | 0% | 14.6 | 13.2 | -9% | -9% | 11.3 | 10.1 | -11% | -11% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -1% | -1% |
| 104 | October | 12.3 | 12.2 | 0% | 0% | 26.3 | 26.2 | -1% | -1% | 34.3 | 34.0 | -1% | -1% | 27.4 | 30.4 | 11% | 11% | 6.0 | 2.2 | -63% | -63% | 13.1 | 12.6 | -4% | -4% |
| 104 | November | 5.2 | 5.2 | 0% | 0% | 10.8 | 11.0 | 2% | 2% | 15.8 | 14.9 | -6% | -6% | 11.9 | 10.7 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.5 | 4% | 4% |
| 104 | December | 4.7 | 4.7 | 0% | 0% | 9.7 | 9.8 | 1% | 1% | 14.3 | 13.4 | -6% | -6% | 10.8 | 9.7 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.7 | 4.8 | 1% | 1% |
| 105 | January | 4.2 | 4.1 | -3% | -3% | 8.7 | 8.9 | 2% | 2% | 12.9 | 12.3 | -5% | -5% | 9.8 | 8.9 | -9% | -9% | 2.7 | 0.3 | -89% | -89% | 4.3 | 4.5 | 6% | 6% |
| 105 | February | 3.3 | 3.3 | 0% | 0% | 6.9 | 7.0 | 1% | 1% | 10.5 | 10.0 | -4% | -4% | 8.0 | 7.4 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 3.9 | 3.9 | 1% | 1% |
| 105 | March | 3.4 | 3.4 | 0% | 0% | 7.4 | 7.6 | 2% | 2% | 11.1 | 10.7 | -4% | -4% | 8.5 | 8.2 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 3% | 3% |
| 105 | April | 13.8 | 13.8 | 0% | 0% | 30.4 | 30.0 | -1% | -1% | 37.7 | 38.5 | 2% | 2% | 28.0 | 33.5 | 20% | 20% | 7.8 | 3.8 | -51% | -51% | 16.0 | 15.2 | -5% | -5% |
| 105 | May | 38.3 | 38.4 | 0% | 0% | 83.0 | 83.4 | 0% | 0% | 100.0 | 103.5 | 3% | 3% | 66.5 | 68.5 | 3% | 3% | 25.5 | 19.6 | -23% | -16% | 42.8 | 42.1 | -2% | -1% |
| 105 | June | 68.5 | 68.5 | 0% | 0% | 148.2 | 149.4 | 1% | 1% | 183.6 | 187.4 | 2% | 2% | 132.7 | 131.9 | -1% | -1% | 47.3 | 38.7 | -18% | -18% | 79.3 | 78.7 | -1% | -1% |
| 105 | July | 6.8 | 7.0 | 2% | 1% | 13.9 | 14.6 | 5% | 2% | 20.7 | 19.8 | -4% | -2% | 15.3 | 13.8 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 7.1 | 7% | 2% |
| 105 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.6 | -1% | -1% | 17.5 | 15.9 | -9% | -9% | 13.2 | 11.8 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.4 | -2% | -2% |
| 105 | September | 4.9 | 4.8 | -1% | -1% | 9.8 | 9.8 | 0% | 0% | 14.9 | 13.6 | -9% | -9% | 11.5 | 10.3 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.7 | -1% | -1% |
| 105 | October | 7.2 | 7.2 | 0% | 0% | 14.8 | 14.6 | -1% | -1% | 21.1 | 20.1 | -5% | -5% | 17.3 | 18.2 | 5% | 5% | 3.3 | 0.2 | -94% | -94% | 7.1 | 6.7 | -6% | -6% |
| 105 | November | 4.8 | 4.8 | 0% | 0% | 9.8 | 10.0 | 2% | 2% | 14.6 | 13.7 | -6% | -6% | 11.3 | 10.3 | -9% | -9% | 2.9 | 0.2 | -93% | -93% | 4.8 | 5.0 | 4% | 4% |
| 105 | December | 4.3 | 4.3 | 0% | 0% | 8.8 | 9.2 | 5% | 5% | 13.3 | 12.8 | -4% | -4% | 10.2 | 9.3 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.6 | 8% | 8% |
| 106 | January | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.1 | 3% | 3% | 12.0 | 11.4 | -5% | -5% | 9.1 | 8.5 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.1 | 5% | 5% |
| 106 | February | 3.0 | 3.0 | 0% | 0% | 6.5 | 6.6 | 2% | 2% | 9.9 | 9.4 | -5% | -5% | 7.5 | 7.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 3% | 3% |
| 106 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 7.1 | 8% | 8% | 10.0 | 10.1 | 0% | 0% | 7.6 | 7.3 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 15% | 15% |
| 106 | April | 6.9 | 7.0 | 0% | 0% | 14.9 | 14.9 | 0% | 0% | 20.3 | 20.9 | 3% | 3% | 17.0 | 21.0 | 24% | 24% | 3.0 | 0.0 | -100% | -45% | 7.5 | 7.2 | -5% | -3% |
| 106 | May | 57.8 | 57.7 | 0% | 0% | 127.3 | 127.5 | 0% | 0% | 152.2 | 157.7 | 4% | 4% | 101.7 | 105.5 | 4% | 4% | 39.4 | 31.6 | -20% | -20% | 66.7 | 65.4 | -2% | -2% |
| 106 | June | 64.7 | 64.8 | 0% | 0% | 139.0 | 140.2 | 1% | 1% | 172.8 | 175.5 | 2% | 2% | 125.8 | 125.2 | -1% | -1% | 43.9 | 35.7 | -19% | -17% | 73.8 | 73.3 | -1% | -1% |
| 106 | July | 6.8 | 6.9 | 1% | 1% | 13.6 | 14.0 | 3% | 1% | 20.3 | 19.0 | -6% | -3% | 15.2 | 13.6 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 6.6 | 4% | 1% |
| 106 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 17.2 | 15.5 | -10% | -10% | 13.1 | 11.7 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.3 | 5.2 | -2% | -2% |
| 106 | September | 4.8 | 4.8 | -1% | -1% | 9.6 | 9.6 | 0% | 0% | 14.7 | 13.3 | -10% | -10% | 11.4 | 10.2 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -1% | -1% |
| 106 | October | 7.8 | 7.8 | 0% | 0% | 16.1 | 15.9 | -1% | -1% | 22.6 | 22.1 | -2% | -2% | 18.8 | 20.2 | 8% | 8% | 3.4 | 0.2 | -94% | -94% | 7.6 | 7.2 | -5% | -5% |
| 106 | November | 4.8 | 4.8 | -1% | -1% | 9.9 | 10.0 | 1% | 1% | 14.7 | 13.6 | -7% | -7% | 11.3 | 10.3 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.8 | 5.0 | 3% | 3% |
| 106 | December | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.0 | 1% | 1% | 13.5 | 12.5 | -7% | -7% | 10.2 | 9.4 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.4 | 2% | 2% |
| 107 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.3 | 5% | 5% | 12.1 | 11.6 | -4% | -4% | 9.2 | 8.6 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.3 | 9% | 9% |
| 107 | February | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.9 | 3% | 3% | 10.3 | 9.8 | -5% | -5% | 7.8 | 7.4 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 4% | 4% |
| 107 | March | 3.2 | 3.1 | 0% | 0% | 6.9 | 7.6 | 11% | 11% | 10.4 | 10.6 | 1% | 1% | 7.9 | 7.8 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 4.2 | 19% | 19% |
| 107 | April | 42.4 | 42.3 | 0% | 0% | 94.1 | 94.1 | 0% | 0% | 112.5 | 116.9 | 4% | 4% | 75.6 | 82.0 | 8% | 8% | 29.4 | 22.5 | -23% | -23% | 51.0 | 49.7 | -2% | -2% |
| 107 | May | 60.6 | 60.7 | 0% | 0% | 130.7 | 131.9 | 1% | 1% | 161.5 | 165.1 | 2% | 2% | 116.3 | 116.9 | 0% | 0% | 39.8 | 32.2 | -19% | -19% | 67.5 | 66.9 | -1% | -1% |
| 107 | June | 30.2 | 30.3 | 0% | 0% | 63.2 | 63.4 | 0% | 0% | 80.7 | 80.3 | 0% | 0% | 60.1 | 59.7 | -1% | 0% | 18.8 | 13.8 | -27% | -10% | 32.6 | 32.1 | -1% | -1% |
| 107 | July | 6.7 | 6.8 | 1% | 0% | 13.7 | 13.8 | 1% | 0% | 20.4 | 18.9 | -7% | -4% | 15.2 | 13.7 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.5 | 0% | 0% |
| 107 | August | 5.6 | 5.6 | 1% | 1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 15.8 | -8% | -8% | 13.0 | 11.7 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.4 | -2% | -2% |
| 107 | September | 4.8 | 4.7 | -1% | -1% | 9.7 | 9.6 | 0% | 0% | 14.8 | 13.4 | -9% | -9% | 11.3 | 10.2 | -10% | -10% | 2.9 | 0.4 | -86% | -86% | 4.7 | 4.7 | 0% | 0% |
| 107 | October | 11.1 | 11.1 | 0% | 0% | 23.7 | 23.5 | -1% | -1% | 31.4 | 30.8 | -2% | -2% | 25.5 | 28.3 | 11% | 11% | 5.2 | 1.4 | -73% | -73% | 11.7 | 11.2 | -4% | -4% |
| 107 | November | 5.4 | 5.4 | 0% | 0% | 11.1 | 11.4 | 3% | 3% | 16.2 | 15.4 | -5% | -5% | 12.3 | 11.2 | -9% | -9% | 3.2 | 0.5 | -85% | -85% | 5.4 | 5.7 | 4% | 4% |
| 107 | December | 4.8 | 4.8 | 0% | 0% | 10.0 | 10.5 | 6% | 6% | 14.7 | 14.6 | -1% | -1% | 11.0 | 10.0 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 5.4 | 10% | 10% |
| 108 | January | 4.2 | 4.2 | -1% | -1% | 8.8 | 9.0 | 2% | 2% | 13.1 | 12.4 | -5% | -5% | 9.9 | 9.2 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.5 | 3% | 3% |
| 108 | February | 3.3 | 3.3 | -1% | -1% | 7.1 | 7.1 | 0% | 0% | 10.7 | 10.1 | -6% | -6% | 8.1 | 7.6 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.0 | 0% | 0% |
| 108 | March | 3.6 | 3.6 | 0% | 0% | 7.8 | 7.8 | 0% | 0% | 11.7 | 11.1 | -5% | -5% | 8.9 | 8.6 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | -2% | -2% |
| 108 | April | 21.2 | 21.1 | -1% | -1% | 46.7 | 46.3 | -1% | -1% | 55.8 | 57.6 | 3% | 3% | 39.7 | 45.6 | 15% | 15% | 13.3 | 8.5 | -36% | -36% | 24.9 | 23.8 | -4% | -4% |
| 108 | May | 44.0 | 44.0 | 0% | 0% | 95.1 | 95.4 | 0% | 0% | 116.6 | 119.4 | 2% | 2% | 79.2 | 80.5 | 2% | 2% | 29.2 | 22.9 | -22% | -17% | 49.1 | 48.2 | -2% | -2% |
| 108 | June | 27.3 | 27.4 | 0% | 0% | 57.9 | 58.0 | 0% | 0% | 72.8 | 73.7 | 1% | 1% | 53.7 | 54.0 | 1% | 0% | 17.5 | 12.6 | -28% | -10% | 30.2 | 29.7 | -2% | -1% |
| 108 | July | 6.6 | 6.7 | 1% | 0% | 13.8 | 14.0 | 1% | 0% | 20.2 | 19.0 | -6% | -3% | 14.8 | 13.5 | -9% | -4% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.7 | 0% | 0% |
| 108 | August | 5.5 | 5.6 | 0% | 0% | 11.5 | 11.4 | -1% | -1% | 17.1 | 15.7 | -8% | -8% | 12.8 | 11.6 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.5 | -3% | -3% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 108 | September | 27.4 | 27.3 | 0% | 0% | 59.1 | 59.2 | 0% | 0% | 73.2 | 74.3 | 1% | 1% | 53.6 | 56.1 | 5% | 5% | 17.6 | 12.3 | -30% | -30% | 31.2 | 30.6 | -2% | -2% |
| 108 | October | 6.3 | 6.3 | 1% | 1% | 13.0 | 13.3 | 2% | 2% | 19.1 | 18.1 | -5% | -5% | 14.1 | 12.8 | -9% | -9% | 3.7 | 0.8 | -78% | -78% | 6.3 | 6.5 | 2% | 2% |
| 108 | November | 5.2 | 5.2 | 0% | 0% | 10.7 | 10.8 | 1% | 1% | 16.0 | 14.8 | -7% | -7% | 11.8 | 10.7 | -9% | -9% | 3.4 | 0.6 | -82% | -82% | 5.4 | 5.4 | 1% | 1% |
| 108 | December | 4.7 | 4.7 | 1% | 1% | 9.7 | 9.8 | 1% | 1% | 14.6 | 13.7 | -7% | -7% | 11.2 | 10.1 | -9% | -9% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.8 | 1% | 1% |
| 109 | January | 4.1 | 4.1 | -1% | -1% | 8.6 | 8.7 | 1% | 1% | 13.1 | 12.3 | -6% | -6% | 10.1 | 9.3 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.4 | 2% | 2% |
| 109 | February | 3.3 | 3.3 | -1% | -1% | 7.0 | 7.3 | 4% | 4% | 10.8 | 10.4 | -4% | -4% | 8.3 | 7.8 | -6% | -6% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 109 | March | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.3 | 7% | 7% | 11.7 | 11.7 | 0% | 0% | 9.2 | 8.9 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.4 | 12% | 12% |
| 109 | April | 20.1 | 20.0 | 0% | 0% | 44.3 | 43.9 | -1% | -1% | 53.2 | 55.0 | 3% | 3% | 38.6 | 44.4 | 15% | 15% | 12.3 | 7.5 | -39% | -39% | 23.6 | 22.6 | -4% | -4% |
| 109 | May | 46.3 | 46.4 | 0% | 0% | 100.4 | 100.6 | 0% | 0% | 123.0 | 126.2 | 3% | 3% | 84.4 | 85.6 | 1% | 1% | 30.9 | 24.3 | -21% | -17% | 51.9 | 50.9 | -2% | -2% |
| 109 | June | 19.5 | 19.6 | 1% | 0% | 40.8 | 40.9 | 0% | 0% | 51.9 | 52.0 | 0% | 0% | 38.9 | 39.4 | 1% | 1% | 11.7 | 7.5 | -36% | -9% | 20.9 | 20.4 | -2% | -1% |
| 109 | July | 6.5 | 6.5 | 0% | 0% | 13.6 | 13.5 | 0% | 0% | 19.8 | 18.6 | -6% | -3% | 14.6 | 13.3 | -9% | -4% | 3.9 | 0.9 | -77% | -21% | 6.6 | 6.5 | -2% | 0% |
| 109 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.3 | -1% | -1% | 16.9 | 15.5 | -8% | -8% | 12.6 | 11.5 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.4 | -3% | -3% |
| 109 | September | 4.7 | 4.7 | 0% | 0% | 9.7 | 9.6 | 0% | 0% | 14.5 | 13.4 | -8% | -8% | 11.1 | 10.1 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.8 | -2% | -2% |
| 109 | October | 7.2 | 7.2 | 0% | 0% | 14.9 | 14.7 | -1% | -1% | 20.9 | 20.2 | -3% | -3% | 17.0 | 18.2 | 7% | 7% | 3.4 | 0.2 | -94% | -94% | 7.2 | 6.8 | -6% | -6% |
| 109 | November | 4.7 | 4.6 | 0% | 0% | 9.7 | 10.1 | 4% | 4% | 14.2 | 13.7 | -4% | -4% | 11.0 | 10.1 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.3 | 7% | 7% |
| 109 | December | 4.1 | 4.1 | 0% | 0% | 8.8 | 9.1 | 4% | 4% | 13.0 | 12.5 | -3% | -3% | 9.9 | 9.2 | -7% | -7% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.7 | 6% | 6% |
| 110 | January | 3.6 | 3.6 | -1% | -1% | 7.8 | 8.0 | 2% | 2% | 11.7 | 11.2 | -4% | -4% | 9.0 | 8.5 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.1 | 4% | 4% |
| 110 | February | 3.9 | 3.9 | 0% | 0% | 8.3 | 8.4 | 1% | 1% | 12.0 | 11.9 | -1% | -1% | 9.6 | 10.1 | 5% | 5% | 2.6 | 0.0 | -100% | -100% | 4.5 | 4.5 | 0% | 0% |
| 110 | March | 11.3 | 11.3 | 0% | 0% | 24.8 | 24.3 | -2% | -2% | 31.4 | 31.8 | 1% | 1% | 23.8 | 28.3 | 19% | 19% | 5.6 | 1.9 | -66% | -66% | 12.6 | 11.8 | -7% | -7% |
| 110 | April | 19.0 | 19.0 | 0% | 0% | 40.8 | 40.5 | -1% | -1% | 48.5 | 49.4 | 2% | 2% | 34.0 | 36.4 | 7% | 7% | 12.1 | 7.8 | -35% | -35% | 21.4 | 20.6 | -4% | -4% |
| 110 | May | 35.4 | 35.5 | 0% | 0% | 76.3 | 76.3 | 0% | 0% | 93.5 | 95.7 | 2% | 2% | 63.3 | 64.3 | 1% | 1% | 23.4 | 17.8 | -24% | -15% | 39.2 | 38.2 | -2% | -2% |
| 110 | June | 6.3 | 6.4 | 1% | 0% | 13.3 | 13.3 | 0% | 0% | 19.0 | 17.9 | -6% | -1% | 13.9 | 12.8 | -8% | -1% | 4.0 | 1.0 | -75% | -6% | 6.7 | 6.7 | -1% | 0% |
| 110 | July | 5.5 | 5.5 | 0% | 0% | 11.6 | 11.5 | -1% | 0% | 16.8 | 15.6 | -7% | -3% | 12.5 | 11.4 | -9% | -4% | 3.6 | 0.7 | -80% | -20% | 5.7 | 5.5 | -3% | -1% |
| 110 | August | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.1 | 0% | 0% | 14.9 | 13.9 | -7% | -7% | 11.4 | 10.4 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.9 | -1% | -1% |
| 110 | September | 5.1 | 5.1 | 0% | 0% | 10.7 | 10.5 | -2% | -2% | 15.5 | 14.7 | -5% | -5% | 12.4 | 12.3 | -1% | -1% | 3.1 | 0.2 | -94% | -94% | 5.3 | 5.1 | -5% | -5% |
| 110 | October | 4.6 | 4.5 | 0% | 0% | 9.6 | 9.4 | -2% | -2% | 14.0 | 13.2 | -6% | -6% | 10.9 | 10.3 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.7 | 4.5 | -4% | -4% |
| 110 | November | 3.8 | 3.8 | -1% | -1% | 8.1 | 8.2 | 1% | 1% | 11.9 | 11.5 | -4% | -4% | 9.2 | 8.8 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.3 | 2% | 2% |
| 110 | December | 3.5 | 3.5 | 0% | 0% | 7.6 | 8.3 | 9% | 9% | 11.2 | 11.4 | 2% | 2% | 8.6 | 8.4 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.5 | 16% | 16% |
| 111 | January | 3.2 | 3.2 | -1% | -1% | 7.0 | 7.3 | 4% | 4% | 10.3 | 10.3 | 0% | 0% | 7.8 | 7.7 | -1% | -1% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 7% | 7% |
| 111 | February | 2.7 | 2.7 | -1% | -1% | 6.1 | 6.3 | 3% | 3% | 9.0 | 8.8 | -1% | -1% | 6.6 | 6.6 | 1% | 1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 4% | 4% |
| 111 | March | 3.9 | 3.9 | 0% | 0% | 8.4 | 8.7 | 4% | 4% | 12.0 | 12.4 | 4% | 4% | 9.3 | 10.6 | 14% | 14% | 2.2 | 0.0 | -100% | -100% | 4.2 | 4.4 | 6% | 6% |
| 111 | April | 58.8 | 58.7 | 0% | 0% | 130.2 | 130.4 | 0% | 0% | 155.4 | 162.0 | 4% | 4% | 104.8 | 110.9 | 6% | 6% | 40.9 | 32.6 | -20% | -20% | 70.6 | 69.1 | -2% | -2% |
| 111 | May | 48.3 | 48.4 | 0% | 0% | 102.9 | 103.8 | 1% | 1% | 127.3 | 129.7 | 2% | 2% | 92.9 | 93.6 | 1% | 1% | 30.6 | 24.2 | -21% | -17% | 52.4 | 52.0 | -1% | -1% |
| 111 | June | 16.6 | 16.7 | 1% | 0% | 33.9 | 34.0 | 0% | 0% | 44.1 | 43.3 | -2% | -1% | 34.1 | 34.0 | 0% | 0% | 9.1 | 5.2 | -43% | -8% | 17.0 | 16.6 | -2% | -1% |
| 111 | July | 6.6 | 6.6 | 0% | 0% | 13.6 | 13.5 | -1% | 0% | 19.9 | 18.4 | -8% | -4% | 14.9 | 13.6 | -9% | -4% | 3.8 | 0.9 | -76% | -21% | 6.5 | 6.4 | -2% | -1% |
| 111 | August | 5.7 | 5.6 | 0% | 0% | 11.6 | 11.5 | -1% | -1% | 17.2 | 15.6 | -9% | -9% | 12.9 | 11.7 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.4 | -2% | -2% |
| 111 | September | 4.8 | 4.7 | -1% | -1% | 9.8 | 9.7 | -1% | -1% | 14.8 | 13.4 | -9% | -9% | 11.3 | 10.2 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.8 | -2% | -2% |
| 111 | October | 17.2 | 17.2 | 0% | 0% | 37.3 | 37.2 | 0% | 0% | 46.5 | 47.3 | 2% | 2% | 35.4 | 38.7 | 10% | 10% | 9.7 | 5.4 | -45% | -45% | 18.9 | 18.3 | -3% | -3% |
| 111 | November | 6.0 | 6.0 | 0% | 0% | 12.3 | 12.4 | 1% | 1% | 17.9 | 16.8 | -6% | -6% | 13.2 | 12.2 | -8% | -8% | 3.6 | 0.6 | -83% | -83% | 6.0 | 6.1 | 2% | 2% |
| 111 | December | 5.2 | 5.2 | 0% | 0% | 10.7 | 11.0 | 2% | 2% | 15.9 | 15.1 | -5% | -5% | 11.8 | 10.8 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.2 | 5.4 | 4% | 4% |
| 112 | January | 4.5 | 4.5 | 0% | 0% | 9.4 | 9.8 | 4% | 4% | 14.1 | 13.6 | -4% | -4% | 10.6 | 9.8 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 5.0 | 7% | 7% |
| 112 | February | 3.6 | 3.6 | -1% | -1% | 7.6 | 8.4 | 10% | 10% | 11.5 | 11.6 | 0% | 0% | 8.7 | 8.1 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.2 | 5.0 | 21% | 21% |
| 112 | March | 18.5 | 18.4 | -1% | -1% | 40.4 | 40.6 | 1% | 1% | 49.1 | 50.6 | 3% | 3% | 35.8 | 40.7 | 13% | 13% | 10.8 | 6.3 | -42% | -42% | 20.6 | 20.4 | -1% | -1% |
| 112 | April | 38.1 | 38.1 | 0% | 0% | 82.2 | 82.9 | 1% | 1% | 101.2 | 104.0 | 3% | 3% | 68.7 | 69.8 | 2% | 2% | 26.1 | 20.1 | -23% | -23% | 43.7 | 43.3 | -1% | -1% |
| 112 | May | 92.3 | 92.2 | 0% | 0% | 199.5 | 200.7 | 1% | 1% | 248.6 | 251.8 | 1% | 1% | 180.5 | 178.5 | -1% | -1% | 61.9 | 51.3 | -17% | -17% | 103.3 | 102.3 | -1% | -1% |
| 112 | June | 65.7 | 65.7 | 0% | 0% | 139.7 | 140.9 | 1% | 1% | 177.0 | 177.2 | 0% | 0% | 130.8 | 127.9 | -2% | -2% | 43.8 | 35.5 | -19% | -17% | 73.6 | 73.2 | -1% | -1% |
| 112 | July | 7.5 | 7.7 | 2% | 1% | 15.3 | 15.9 | 4% | 2% | 22.8 | 21.7 | -5% | -2% | 17.1 | 15.3 | -11% | -6% | 4.2 | 1.1 | -74% | -22% | 7.2 | 7.7 | 7% | 2% |
| 112 | August | 6.2 | 6.2 | 0% | 0% | 12.7 | 12.6 | 0% | 0% | 18.9 | 17.3 | -9% | -9% | 14.2 | 12.7 | -10% | -10% | 3.7 | 0.7 | -81% | -81% | 6.1 | 5.9 | -2% | -2% |
| 112 | September | 12.7 | 12.7 | 0% | 0% | 26.6 | 26.5 | 0% | 0% | 35.0 | 34.1 | -2% | -2% | 28.5 | 30.1 | 6% | 6% | 6.4 | 2.5 | -61% | -61% | 13.4 | 12.9 | -4% | -4% |
| 112 | October | 11.6 | 11.6 | 0% | 0% | 24.0 | 23.9 | 0% | 0% | 31.8 | 30.9 | -3% | -3% | 24.5 | 24.7 | 1% | 1% | 6.1 | 2.5 | -59% | -59% | 11.6 | 11.3 | -2% | -2% |
| 112 | November | 6.0 | 6.0 | 0% | 0% | 12.6 | 13.0 | 3% | 3% | 18.3 | 17.5 | -5% | -5% | 13.4 | 12.4 | -8% | -8% | 4.0 | 1.0 | -75% | -75% | 6.3 | 6.7 | 6% | 6% |
| 112 | December | 5.3 | 5.3 | 0% | 0% | 11.1 | 11.2 | 0% | 0% | 16.5 | 15.4 | -7% | -7% | 12.1 | 11.0 | -9% | -9% | 3.6 | 0.7 | -80% | -80% | 5.5 | 5.5 | 0% | 0% |

| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -2 | January | 5.0 | 5.0 | 0% | 0% | 10.4 | 10.1 | -3% | -3% | 15.8 | 15.5 | -2% | -2% | 11.6 | 11.6 | 0% | 0% | 3.2 | 0.4 | -87% | -87% | 5.0 | 4.7 | -6% | -6% |
| -2 | February | 4.1 | 4.4 | 7% | 7% | 8.6 | 8.9 | 3% | 3% | 13.3 | 13.9 | 5% | 5% | 9.9 | 10.6 | 7% | 7% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.2 | -7% | -7% |
| -2 | March | 13.1 | 13.1 | 0% | 0% | 28.6 | 28.2 | -1% | -1% | 36.3 | 35.9 | -1% | -1% | 27.8 | 27.8 | 0% | 0% | 6.9 | 5.7 | -17% | -17% | 14.1 | 13.5 | -4% | -4% |
| -2 | April | 29.1 | 30.1 | 3% | 3% | 62.7 | 64.3 | 3% | 3% | 76.5 | 78.5 | 3% | 3% | 51.4 | 53.1 | 3% | 3% | 19.6 | 19.3 | -1% | -1% | 32.5 | 31.5 | -3% | -3% |
| -2 | May | 55.3 | 55.3 | 0% | 0% | 119.9 | 119.2 | -1% | -1% | 148.6 | 147.8 | 0% | 0% | 105.6 | 105.8 | 0% | 0% | 37.1 | 39.3 | 6% | 6% | 60.7 | 59.3 | -2% | -2% |
| -2 | June | 13.3 | 13.7 | 3% | 1% | 27.4 | 27.7 | 1% | 0% | 36.5 | 37.1 | 2% | 0% | 28.4 | 29.4 | 3% | 1% | 7.2 | 4.8 | -34% | -5% | 13.6 | 12.9 | -5% | -1% |
| -2 | July | 6.7 | 6.7 | 0% | 0% | 14.2 | 13.6 | -4% | -1% | 20.7 | 20.2 | -3% | -1% | 15.7 | 15.6 | 0% | 0% | 4.1 | 1.1 | -73% | -21% | 6.9 | 6.4 | -7% | -2% |
| -2 | August | 5.8 | 5.8 | 0% | 0% | 12.0 | 11.6 | -3% | -3% | 17.8 | 17.4 | -2% | -2% | 13.4 | 13.4 | 0% | 0% | 3.6 | 0.7 | -81% | -81% | 5.8 | 5.4 | -7% | -7% |
| -2 | September | 7.0 | 7.2 | 3% | 3% | 14.5 | 14.6 | 1% | 1% | 20.6 | 20.9 | 1% | 1% | 16.3 | 16.8 | 3% | 3% | 3.7 | 1.2 | -67% | -67% | 7.2 | 6.7 | -6% | -6% |
| -2 | October | 6.9 | 6.9 | 0% | 0% | 14.3 | 13.9 | -3% | -3% | 20.4 | 20.0 | -2% | -2% | 15.9 | 15.9 | 0% | 0% | 3.7 | 1.0 | -73% | -73% | 6.9 | 6.4 | -7% | -7% |
| -2 | November | 5.2 | 5.4 | 3% | 3% | 10.8 | 10.8 | -1% | -1% | 15.9 | 16.0 | 1% | 1% | 12.1 | 12.5 | 3% | 3% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.1 | -8% | -8% |
| -2 | December | 4.6 | 4.6 | 0% | 0% | 9.8 | 9.4 | -4% | -4% | 14.6 | 14.2 | -3% | -3% | 11.0 | 11.0 | 0% | 0% | 3.0 | 0.3 | -90% | -90% | 4.9 | 4.5 | -8% | -8% |
| -1 | January | 4.1 | 4.1 | 0% | 0% | 8.7 | 7.2 | -17% | -17% | 13.2 | 12.0 | -9% | -9% | 9.9 | 9.9 | 0% | 0% | 2.7 | 0.1 | -96% | -96% | 4.4 | 2.8 | -35% | -35% |
| -1 | February | 3.3 | 3.6 | 10% | 10% | 7.2 | 6.6 | -8% | -8% | 10.9 | 11.0 | 1% | 1% | 8.2 | 9.0 | 10% | 10% | 2.4 | 0.1 | -96% | -96% | 4.1 | 2.7 | -34% | -34% |
| -1 | March | 3.7 | 3.7 | 0% | 0% | 8.0 | 6.7 | -16% | -16% | 12.1 | 11.0 | -9% | -9% | 9.1 | 9.0 | 0% | 0% | 2.4 | 0.0 | -100% | -100% | 4.0 | 2.7 | -33% | -33% |
| -1 | April | 11.0 | 11.4 | 3% | 3% | 24.1 | 23.6 | -2% | -2% | 30.6 | 30.7 | 0% | 0% | 23.1 | 23.9 | 3% | 3% | 5.5 | 4.4 | -19% | -16% | 12.2 | 8.8 | -28% | -28% |
| -1 | May | 32.9 | 32.9 | 0% | 0% | 71.4 | 69.6 | -2% | -2% | 84.4 | 83.4 | -1% | -1% | 57.6 | 56.2 | -2% | -2% | 21.5 | 21.8 | 1% | 1% | 36.0 | 28.8 | -20% | -14% |
| -1 | June | 14.9 | 15.4 | 3% | 1% | 31.4 | 30.8 | -2% | 0% | 39.1 | 39.2 | 0% | 0% | 28.6 | 29.5 | 3% | 1% | 8.6 | 6.6 | -23% | -4% | 15.8 | 11.7 | -26% | -6% |
| -1 | July | 6.3 | 6.3 | 0% | 0% | 13.4 | 12.2 | -9% | -3% | 19.0 | 17.8 | -6% | -3% | 13.8 | 13.9 | 1% | 0% | 3.8 | 1.0 | -74% | -20% | 6.6 | 4.6 | -30% | -9% |
| -1 | August | 5.4 | 5.4 | 0% | 0% | 11.4 | 10.4 | -8% | -8% | 16.6 | 15.6 | -6% | -6% | 12.1 | 12.3 | 1% | 1% | 3.5 | 0.7 | -80% | -80% | 5.6 | 4.1 | -27% | -27% |
| -1 | September | 4.6 | 4.7 | 3% | 3% | 9.7 | 9.1 | -6% | -6% | 14.4 | 13.9 | -3% | -3% | 10.8 | 11.3 | 5% | 5% | 3.0 | 0.4 | -87% | -87% | 5.0 | 3.5 | -29% | -29% |
| -1 | October | 5.2 | 5.2 | 0% | 0% | 10.9 | 10.1 | -7% | -7% | 16.0 | 15.1 | -5% | -5% | 12.5 | 12.6 | 1% | 1% | 3.1 | 0.4 | -87% | -87% | 5.3 | 3.8 | -27% | -27% |
| -1 | November | 4.2 | 4.3 | 3% | 3% | 8.9 | 8.3 | -7% | -7% | 13.2 | 12.7 | -4% | -4% | 10.0 | 10.5 | 5% | 5% | 2.7 | 0.1 | -96% | -96% | 4.6 | 3.1 | -32% | -32% |
| -1 | December | 3.7 | 3.8 | 1% | 1% | 8.1 | 7.4 | -9% | -9% | 12.2 | 11.4 | -7% | -7% | 9.1 | 9.2 | 1% | 1% | 2.5 | 0.0 | -100% | -100% | 4.2 | 2.9 | -30% | -30% |
| 1 | January | 3.4 | 3.4 | 1% | 1% | 7.5 | 7.5 | 1% | 1% | 11.2 | 9.2 | -18% | -18% | 8.3 | 8.4 | 2% | 2% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.8 | -28% | -28% |
| 1 | February | 2.8 | 3.2 | 12% | 12% | 6.3 | 7.2 | 16% | 16% | 9.4 | 8.6 | -9% | -9% | 6.8 | 7.6 | 13% | 13% | 2.1 | 0.0 | -100% | -100% | 3.6 | 2.6 | -28% | -28% |
| 1 | March | 2.9 | 2.9 | 2% | 2% | 6.5 | 6.8 | 5% | 5% | 9.7 | 7.9 | -18% | -18% | 6.9 | 6.9 | 1% | 1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 2.5 | -27% | -27% |
| 1 | April | 52.6 | 54.4 | 3% | 3% | 116.8 | 120.6 | 3% | 3% | 138.0 | 141.0 | 2% | 2% | 95.1 | 95.2 | 0% | 0% | 36.8 | 41.2 | 12% | 12% | 61.7 | 50.6 | -18% | -18% |
| 1 | May | 85.6 | 85.7 | 0% | 0% | 184.1 | 183.5 | 0% | 0% | 227.2 | 229.3 | 1% | 1% | 167.8 | 166.9 | -1% | -1% | 56.3 | 62.3 | 11% | 11% | 92.7 | 75.6 | -18% | -18% |
| 1 | June | 50.6 | 52.3 | 3% | 3% | 106.8 | 109.7 | 3% | 2% | 135.2 | 138.0 | 2% | 2% | 100.0 | 103.3 | 3% | 3% | 32.9 | 34.6 | 5% | 4% | 54.7 | 43.8 | -20% | -15% |
| 1 | July | 7.1 | 7.1 | 1% | 0% | 14.2 | 14.3 | 1% | 0% | 21.5 | 17.8 | -17% | -9% | 15.4 | 15.7 | 3% | 1% | 3.7 | 0.9 | -75% | -20% | 6.6 | 4.6 | -30% | -9% |
| 1 | August | 5.9 | 5.9 | 1% | 1% | 11.9 | 12.3 | 3% | 3% | 18.0 | 15.2 | -16% | -16% | 13.1 | 13.5 | 3% | 3% | 3.4 | 0.7 | -79% | -79% | 5.6 | 4.2 | -25% | -25% |
| 1 | September | 5.0 | 5.2 | 4% | 4% | 10.0 | 10.8 | 8% | 8% | 15.3 | 13.3 | -13% | -13% | 11.4 | 12.2 | 7% | 7% | 2.9 | 0.4 | -86% | -86% | 4.9 | 3.7 | -24% | -24% |
| 1 | October | 4.8 | 4.8 | 1% | 1% | 9.6 | 10.0 | 4% | 4% | 14.9 | 12.4 | -17% | -17% | 11.3 | 11.6 | 3% | 3% | 2.7 | 0.1 | -96% | -96% | 4.6 | 3.3 | -27% | -27% |
| 1 | November | 4.1 | 4.3 | 5% | 5% | 8.4 | 9.1 | 9% | 9% | 13.1 | 11.2 | -14% | -14% | 9.8 | 10.5 | 7% | 7% | 2.4 | 0.1 | -96% | -96% | 4.1 | 3.1 | -25% | -25% |
| 1 | December | 3.8 | 3.9 | 1% | 1% | 7.8 | 8.3 | 7% | 7% | 12.4 | 10.2 | -18% | -18% | 9.0 | 9.4 | 4% | 4% | 2.3 | 0.1 | -96% | -96% | 3.8 | 2.9 | -25% | -25% |
| 2 | January | 3.4 | 3.4 | 2% | 2% | 7.1 | 7.7 | 8% | 8% | 11.3 | 8.7 | -23% | -23% | 8.1 | 8.4 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 2.7 | -25% | -25% |
| 2 | February | 2.7 | 3.1 | 14% | 14% | 5.9 | 7.2 | 22% | 22% | 9.4 | 7.9 | -15% | -15% | 6.7 | 7.7 | 15% | 15% | 1.9 | 0.0 | -100% | -100% | 3.3 | 2.5 | -26% | -26% |
| 2 | March | 10.4 | 10.4 | 0% | 0% | 22.6 | 23.0 | 2% | 2% | 29.4 | 26.6 | -9% | -9% | 22.7 | 22.9 | 1% | 1% | 4.8 | 4.0 | -16% | -16% | 10.9 | 7.9 | -27% | -27% |
| 2 | April | 24.5 | 25.3 | 4% | 4% | 53.1 | 54.5 | 3% | 3% | 62.3 | 62.0 | 0% | 0% | 43.5 | 44.3 | 2% | 2% | 15.9 | 15.7 | -1% | -1% | 27.5 | 21.6 | -22% | -22% |
| 2 | May | 33.5 | 33.5 | 0% | 0% | 72.0 | 71.4 | -1% | -1% | 87.9 | 84.3 | -4% | -3% | 61.9 | 60.6 | -2% | -2% | 21.7 | 21.7 | 0% | 0% | 36.1 | 28.7 | -20% | -14% |
| 2 | June | 7.1 | 7.4 | 4% | 1% | 14.9 | 15.4 | 4% | 0% | 21.2 | 17.5 | -17% | -3% | 15.7 | 16.4 | 4% | 1% | 4.1 | 1.2 | -70% | -6% | 7.5 | 5.2 | -31% | -3% |
| 2 | July | 5.9 | 6.0 | 1% | 0% | 12.3 | 12.7 | 3% | 1% | 18.0 | 14.3 | -21% | -9% | 13.2 | 13.5 | 2% | 1% | 3.6 | 0.8 | -78% | -20% | 6.0 | 4.5 | -26% | -7% |
| 2 | August | 5.0 | 5.1 | 1% | 1% | 10.4 | 10.9 | 5% | 5% | 15.7 | 12.3 | -22% | -22% | 11.6 | 11.9 | 2% | 2% | 3.1 | 0.4 | -87% | -87% | 5.1 | 3.8 | -25% | -25% |
| 2 | September | 6.1 | 6.3 | 4% | 4% | 12.5 | 13.4 | 7% | 7% | 18.1 | 15.2 | -16% | -16% | 14.1 | 14.9 | 5% | 5% | 3.3 | 0.9 | -73% | -73% | 6.2 | 4.5 | -26% | -26% |
| 2 | October | 13.2 | 13.2 | 0% | 0% | 28.4 | 28.3 | 0% | 0% | 35.9 | 32.1 | -11% | -11% | 27.6 | 27.8 | 1% | 1% | 6.7 | 5.0 | -25% | -25% | 13.9 | 10.0 | -28% | -28% |
| 2 | November | 5.5 | 5.7 | 4% | 4% | 11.6 | 12.4 | 6% | 6% | 16.7 | 13.9 | -17% | -17% | 12.2 | 12.8 | 5% | 5% | 3.5 | 0.8 | -77% | -77% | 5.9 | 4.4 | -26% | -26% |
| 2 | December | 4.9 | 4.9 | 1% | 1% | 10.4 | 10.8 | 5% | 5% | 15.1 | 12.0 | -21% | -21% | 10.9 | 11.1 | 2% | 2% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.0 | -24% | -24% |
| 3 | January | 4.3 | 4.3 | 1% | 1% | 9.1 | 9.6 | 5% | 5% | 13.5 | 10.4 | -23% | -23% | 10.0 | 10.1 | 1% | 1% | 2.9 | 0.3 | -90% | -90% | 4.6 | 3.5 | -24% | -24% |
| 3 | February | 3.5 | 3.8 | 8% | 8% | 7.7 | 8.6 | 13% | 13% | 11.5 | 9.2 | -20% | -20% | 8.5 | 9.2 | 8% | 8% | 2.6 | 0.1 | -96% | -96% | 4.2 | 3.2 | -24% | -24% |
| 3 | March | 3.4 | 3.4 | 1% | 1% | 7.5 | 8.0 | 7% | 7% | 11.2 | 8.2 | -27% | -27% | 8.2 | 8.3 | 1% | 1% | 2.3 | 0.1 | -96% | -96% | 3.9 | 3.0 | -24% | -24% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | April | 4.2 | 4.3 | 5% | 3% | 8.9 | 9.5 | 7% | 3% | 12.9 | 10.0 | -22% | -12% | 9.9 | 10.4 | 4% | 3% | 2.6 | 0.4 | -84% | -32% | 4.5 | 3.3 | -26% | -10% |
| 3 | May | 67.6 | 67.7 | 0% | 0% | 149.4 | 149.3 | 0% | 0% | 177.8 | 177.0 | 0% | 0% | 124.6 | 121.4 | -3% | -3% | 46.2 | 51.4 | 11% | 11% | 76.5 | 62.8 | -18% | -18% |
| 3 | June | 53.2 | 55.0 | 3% | 3% | 113.2 | 116.4 | 3% | 3% | 141.0 | 143.4 | 2% | 2% | 103.3 | 106.3 | 3% | 3% | 35.1 | 37.4 | 7% | 5% | 58.3 | 47.0 | -19% | -16% |
| 3 | July | 6.8 | 6.9 | 1% | 0% | 13.7 | 13.9 | 1% | 0% | 20.5 | 15.4 | -24% | -12% | 14.6 | 15.0 | 3% | 1% | 3.6 | 0.8 | -78% | -20% | 6.4 | 4.5 | -29% | -8% |
| 3 | August | 5.7 | 5.8 | 1% | 1% | 11.6 | 12.0 | 4% | 4% | 17.5 | 13.2 | -24% | -24% | 12.7 | 13.2 | 4% | 4% | 3.4 | 0.6 | -82% | -82% | 5.4 | 4.1 | -25% | -25% |
| 3 | September | 4.9 | 5.1 | 5% | 5% | 9.8 | 10.6 | 8% | 8% | 15.1 | 11.6 | -23% | -23% | 11.2 | 12.0 | 7% | 7% | 2.9 | 0.3 | -90% | -90% | 4.8 | 3.6 | -25% | -25% |
| 3 | October | 4.5 | 4.5 | 1% | 1% | 9.0 | 9.4 | 5% | 5% | 14.1 | 10.3 | -27% | -27% | 10.5 | 10.9 | 4% | 4% | 2.6 | 0.1 | -96% | -96% | 4.3 | 3.2 | -25% | -25% |
| 3 | November | 4.3 | 4.5 | 4% | 4% | 8.7 | 9.3 | 7% | 7% | 13.5 | 10.2 | -25% | -25% | 10.1 | 10.8 | 7% | 7% | 2.5 | 0.1 | -96% | -96% | 4.2 | 3.1 | -27% | -27% |
| 3 | December | 3.9 | 3.9 | 1% | 1% | 8.0 | 8.4 | 5% | 5% | 12.6 | 9.0 | -28% | -28% | 9.2 | 9.5 | 4% | 4% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.9 | -26% | -26% |
| 4 | January | 3.4 | 3.5 | 2% | 2% | 7.2 | 7.8 | 8% | 8% | 11.4 | 8.2 | -28% | -28% | 8.2 | 8.5 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 2.7 | -25% | -25% |
| 4 | February | 2.8 | 3.1 | 13% | 13% | 6.0 | 7.3 | 22% | 22% | 9.4 | 7.5 | -21% | -21% | 6.7 | 7.7 | 15% | 15% | 2.0 | 0.0 | -100% | -100% | 3.4 | 2.6 | -25% | -25% |
| 4 | March | 2.8 | 2.8 | 2% | 2% | 6.1 | 6.8 | 11% | 11% | 9.6 | 6.9 | -29% | -29% | 6.8 | 7.0 | 3% | 3% | 1.8 | 0.0 | -100% | -100% | 3.2 | 2.4 | -26% | -26% |
| 4 | April | 15.8 | 16.3 | 4% | 4% | 35.0 | 36.5 | 4% | 4% | 42.6 | 41.0 | -4% | -4% | 31.2 | 32.1 | 3% | 3% | 9.0 | 9.2 | 2% | 2% | 17.9 | 13.8 | -23% | -23% |
| 4 | May | 57.7 | 57.7 | 0% | 0% | 125.7 | 125.3 | 0% | 0% | 150.2 | 148.5 | -1% | -1% | 105.6 | 102.9 | -3% | -3% | 38.7 | 42.2 | 9% | 9% | 63.8 | 52.0 | -19% | -19% |
| 4 | June | 38.5 | 39.8 | 4% | 3% | 81.8 | 83.9 | 3% | 2% | 102.4 | 102.0 | 0% | 0% | 75.5 | 77.8 | 3% | 3% | 25.0 | 25.6 | 2% | 1% | 42.0 | 33.3 | -21% | -12% |
| 4 | July | 6.6 | 6.7 | 1% | 0% | 13.5 | 13.8 | 2% | 1% | 20.2 | 15.2 | -24% | -12% | 14.5 | 14.8 | 3% | 1% | 3.6 | 0.9 | -75% | -19% | 6.4 | 4.6 | -29% | -8% |
| 4 | August | 5.6 | 5.6 | 1% | 1% | 11.3 | 11.9 | 5% | 5% | 17.1 | 12.9 | -25% | -25% | 12.5 | 12.9 | 3% | 3% | 3.3 | 0.5 | -85% | -85% | 5.4 | 4.0 | -25% | -25% |
| 4 | September | 4.7 | 4.9 | 5% | 5% | 9.6 | 10.5 | 9% | 9% | 14.7 | 11.3 | -23% | -23% | 10.9 | 11.7 | 7% | 7% | 2.9 | 0.3 | -90% | -90% | 4.7 | 3.6 | -24% | -24% |
| 4 | October | 12.3 | 12.4 | 0% | 0% | 26.4 | 26.5 | 0% | 0% | 34.1 | 29.9 | -12% | -12% | 27.0 | 27.4 | 1% | 1% | 6.0 | 4.6 | -23% | -23% | 12.8 | 9.2 | -28% | -28% |
| 4 | November | 5.3 | 5.5 | 4% | 4% | 10.8 | 11.6 | 7% | 7% | 16.1 | 12.6 | -21% | -21% | 11.6 | 12.3 | 6% | 6% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.0 | -26% | -26% |
| 4 | December | 4.7 | 4.7 | 1% | 1% | 9.8 | 10.3 | 5% | 5% | 14.7 | 11.0 | -25% | -25% | 10.6 | 10.9 | 3% | 3% | 3.0 | 0.4 | -87% | -87% | 4.8 | 3.6 | -24% | -24% |
| 5 | January | 4.1 | 4.2 | 2% | 2% | 8.6 | 9.7 | 13% | 13% | 13.2 | 10.1 | -24% | -24% | 9.6 | 9.8 | 2% | 2% | 2.6 | 0.3 | -88% | -88% | 4.3 | 3.3 | -21% | -21% |
| 5 | February | 3.3 | 3.7 | 13% | 13% | 7.0 | 9.0 | 28% | 28% | 10.8 | 9.0 | -16% | -16% | 7.9 | 8.9 | 13% | 13% | 2.4 | 0.1 | -96% | -96% | 3.9 | 3.0 | -22% | -22% |
| 5 | March | 3.4 | 3.5 | 3% | 3% | 7.4 | 8.6 | 16% | 16% | 11.5 | 8.5 | -25% | -25% | 8.4 | 8.6 | 3% | 3% | 2.3 | 0.1 | -96% | -96% | 3.8 | 2.9 | -22% | -22% |
| 5 | April | 13.8 | 14.4 | 4% | 4% | 30.4 | 32.2 | 6% | 6% | 37.6 | 35.6 | -5% | -5% | 27.8 | 28.8 | 4% | 4% | 7.8 | 7.2 | -7% | -7% | 15.5 | 11.8 | -24% | -24% |
| 5 | May | 38.4 | 38.4 | 0% | 0% | 83.1 | 83.3 | 0% | 0% | 99.3 | 96.6 | -3% | -2% | 67.6 | 65.9 | -2% | -2% | 25.4 | 26.5 | 4% | 3% | 41.9 | 33.9 | -19% | -15% |
| 5 | June | 68.5 | 70.9 | 3% | 3% | 148.3 | 153.3 | 3% | 3% | 183.4 | 187.3 | 2% | 2% | 134.6 | 137.5 | 2% | 2% | 47.3 | 51.4 | 9% | 8% | 77.6 | 63.2 | -19% | -19% |
| 5 | July | 6.9 | 7.0 | 1% | 1% | 14.0 | 14.9 | 6% | 2% | 20.8 | 16.1 | -23% | -11% | 14.9 | 15.2 | 2% | 1% | 3.7 | 0.9 | -76% | -20% | 6.6 | 4.8 | -28% | -8% |
| 5 | August | 5.7 | 5.8 | 1% | 1% | 11.7 | 12.9 | 10% | 10% | 17.6 | 13.7 | -23% | -23% | 12.8 | 13.2 | 3% | 3% | 3.4 | 0.7 | -79% | -79% | 5.6 | 4.3 | -23% | -23% |
| 5 | September | 4.9 | 5.1 | 5% | 5% | 9.9 | 11.4 | 15% | 15% | 15.1 | 12.0 | -21% | -21% | 11.2 | 12.0 | 7% | 7% | 2.9 | 0.4 | -86% | -86% | 4.8 | 3.7 | -22% | -22% |
| 5 | October | 7.2 | 7.3 | 1% | 1% | 14.9 | 15.9 | 7% | 7% | 21.2 | 17.5 | -17% | -17% | 16.9 | 17.3 | 2% | 2% | 3.3 | 1.2 | -64% | -64% | 6.9 | 5.0 | -28% | -28% |
| 5 | November | 4.8 | 5.0 | 5% | 5% | 9.8 | 11.2 | 15% | 15% | 14.8 | 11.7 | -20% | -20% | 11.0 | 11.7 | 6% | 6% | 2.9 | 0.2 | -93% | -93% | 4.8 | 3.6 | -26% | -26% |
| 5 | December | 4.3 | 4.4 | 2% | 2% | 8.9 | 10.0 | 13% | 13% | 13.6 | 10.3 | -24% | -24% | 9.9 | 10.2 | 3% | 3% | 2.6 | 0.2 | -92% | -92% | 4.3 | 3.3 | -23% | -23% |
| 6 | January | 3.8 | 3.8 | 2% | 2% | 7.9 | 9.2 | 17% | 17% | 12.3 | 9.2 | -25% | -25% | 8.9 | 9.1 | 3% | 3% | 2.3 | 0.1 | -96% | -96% | 3.9 | 3.1 | -21% | -21% |
| 6 | February | 3.0 | 3.4 | 14% | 14% | 6.5 | 8.6 | 33% | 33% | 10.1 | 8.3 | -18% | -18% | 7.3 | 8.3 | 14% | 14% | 2.2 | 0.0 | -100% | -100% | 3.6 | 2.9 | -21% | -21% |
| 6 | March | 3.0 | 3.1 | 3% | 3% | 6.6 | 8.0 | 22% | 22% | 10.3 | 7.6 | -26% | -26% | 7.4 | 7.6 | 3% | 3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 2.7 | -22% | -22% |
| 6 | April | 6.9 | 7.2 | 5% | 5% | 15.0 | 16.9 | 12% | 9% | 20.5 | 18.4 | -10% | -8% | 16.8 | 17.5 | 4% | 4% | 3.0 | 1.9 | -37% | -16% | 7.4 | 5.4 | -26% | -18% |
| 6 | May | 57.8 | 57.9 | 0% | 0% | 127.3 | 127.8 | 0% | 0% | 150.6 | 149.0 | -1% | -1% | 103.6 | 100.9 | -3% | -3% | 39.6 | 43.2 | 9% | 9% | 65.1 | 53.2 | -18% | -18% |
| 6 | June | 64.8 | 67.0 | 3% | 3% | 139.1 | 144.0 | 4% | 4% | 172.9 | 177.1 | 2% | 2% | 127.1 | 130.7 | 3% | 3% | 43.8 | 47.5 | 8% | 8% | 72.2 | 58.7 | -19% | -19% |
| 6 | July | 6.8 | 6.9 | 1% | 1% | 13.6 | 14.7 | 8% | 3% | 20.6 | 15.7 | -24% | -11% | 14.6 | 14.9 | 2% | 1% | 3.6 | 0.9 | -75% | -19% | 6.3 | 4.6 | -27% | -8% |
| 6 | August | 5.7 | 5.8 | 2% | 2% | 11.4 | 12.8 | 12% | 12% | 17.4 | 13.4 | -23% | -23% | 12.7 | 13.1 | 3% | 3% | 3.3 | 0.5 | -85% | -85% | 5.4 | 4.1 | -23% | -23% |
| 6 | September | 4.8 | 5.0 | 5% | 5% | 9.7 | 11.3 | 17% | 17% | 14.9 | 11.7 | -21% | -21% | 11.1 | 11.8 | 7% | 7% | 2.9 | 0.4 | -86% | -86% | 4.7 | 3.6 | -22% | -22% |
| 6 | October | 7.8 | 7.9 | 1% | 1% | 16.1 | 17.2 | 7% | 7% | 22.6 | 18.9 | -16% | -16% | 18.4 | 18.7 | 2% | 2% | 3.4 | 1.4 | -59% | -59% | 7.5 | 5.4 | -28% | -28% |
| 6 | November | 4.9 | 5.1 | 5% | 5% | 9.9 | 11.4 | 16% | 16% | 14.9 | 11.8 | -21% | -21% | 11.0 | 11.7 | 6% | 6% | 2.9 | 0.3 | -90% | -90% | 4.8 | 3.6 | -25% | -25% |
| 6 | December | 4.3 | 4.4 | 2% | 2% | 9.0 | 10.2 | 14% | 14% | 13.7 | 10.4 | -24% | -24% | 10.0 | 10.2 | 3% | 3% | 2.7 | 0.3 | -89% | -89% | 4.4 | 3.4 | -22% | -22% |
| 7 | January | 3.8 | 4.0 | 5% | 5% | 8.0 | 10.7 | 34% | 34% | 12.4 | 10.6 | -14% | -14% | 9.0 | 9.2 | 3% | 3% | 2.4 | 0.1 | -96% | -96% | 4.0 | 3.0 | -24% | -24% |
| 7 | February | 3.1 | 3.6 | 14% | 14% | 6.7 | 10.2 | 51% | 51% | 10.5 | 9.9 | -6% | -6% | 7.6 | 8.4 | 10% | 10% | 2.2 | 0.0 | -100% | -100% | 3.7 | 2.8 | -25% | -25% |
| 7 | March | 3.2 | 3.4 | 6% | 6% | 6.9 | 9.7 | 41% | 41% | 10.7 | 9.4 | -12% | -12% | 7.7 | 7.9 | 3% | 3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 2.5 | -27% | -27% |
| 7 | April | 42.4 | 44.0 | 4% | 4% | 94.1 | 98.6 | 5% | 5% | 111.3 | 113.9 | 2% | 2% | 77.0 | 77.4 | 1% | 1% | 29.4 | 32.5 | 11% | 11% | 49.6 | 40.1 | -19% | -19% |
| 7 | May | 60.6 | 60.8 | 0% | 0% | 130.8 | 131.8 | 1% | 1% | 161.1 | 159.4 | -1% | -1% | 117.8 | 116.5 | -1% | -1% | 39.9 | 43.1 | 8% | 8% | 66.0 | 53.1 | -20% | -20% |
| 7 | June | 30.2 | 31.5 | 4% | 3% | 63.2 | 66.1 | 5% | 2% | 80.9 | 79.5 | -2% | -1% | 59.4 | 61.5 | 4% | 3% | 18.8 | 18.3 | -3% | -1% | 32.0 | 24.6 | -23% | -10% |
| 7 | July | 6.7 | 6.9 | 3% | 2% | 13.7 | 15.4 | 12% | 4% | 20.7 | 16.4 | -21% | -10% | 14.7 | 15.1 | 2% | 1% | 3.7 | 0.9 | -75% | -20% | 6.5 | 4.3 | -34% | -10% |
| 7 | August | 5.6 | 5.8 | 3% | 3% | 11.5 | 13.6 | 18% | 18% | 17.4 | 14.2 | -18% | -18% | 12.6 | 13.0 | 3% | 3% | 3.3 | 0.6 | -82% | -82% | 5.5 | 3.8 | -30% | -30% |
| 7 | September | 4.8 | 5.1 | 7% | 7% | 9.7 | 12.4 | 28% | 28% | 14.9 | 12.8 | -14% | -14% | 11.0 | 11.7 | 6% | 6% | 2.9 | 0.3 | -90% | -90% | 4.7 | 3.4 | -29% | -29% |
| 7 | October | 11.1 | 11.3 | 2% | 2% | 23.6 | 24.9 | 6% | 6% | 31.2 | 27.7 | -11% | -11% | 25.1 | 25.4 | 1% | 1% | 5.2 | 3.6 | -30% | -30% | 11.4 | 7.6 | -33% | -33% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | November | 5.4 | 5.8 | 7% | 7% | 11.1 | 13.4 | 21% | 21% | 16.4 | 14.0 | -15% | -15% | 11.9 | 12.6 | 6% | 6% | 3.1 | 0.5 | -84% | -84% | 5.4 | 3.7 | -32% | -32% |
| 7 | December | 4.8 | 5.0 | 5% | 5% | 10.0 | 12.4 | 24% | 24% | 15.0 | 12.6 | -15% | -15% | 10.8 | 11.1 | 2% | 2% | 3.0 | 0.4 | -87% | -87% | 4.9 | 3.6 | -27% | -27% |
| 8 | January | 4.2 | 4.4 | 6% | 6% | 8.8 | 12.1 | 37% | 37% | 13.4 | 12.1 | -10% | -10% | 9.8 | 10.0 | 2% | 2% | 2.8 | 0.2 | -93% | -93% | 4.4 | 3.2 | -26% | -26% |
| 8 | February | 3.3 | 3.9 | 19% | 19% | 7.1 | 11.2 | 59% | 59% | 11.0 | 11.1 | 1% | 1% | 8.0 | 9.0 | 13% | 13% | 2.5 | 0.1 | -96% | -96% | 4.0 | 2.9 | -26% | -26% |
| 8 | March | 3.6 | 3.9 | 7% | 7% | 7.8 | 11.0 | 41% | 41% | 11.9 | 10.8 | -10% | -10% | 8.7 | 8.9 | 2% | 2% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.8 | -29% | -29% |
| 8 | April | 21.2 | 22.1 | 4% | 4% | 46.7 | 49.1 | 5% | 5% | 55.4 | 54.6 | -1% | -1% | 39.8 | 40.7 | 2% | 2% | 13.4 | 13.5 | 1% | 1% | 24.2 | 18.2 | -25% | -25% |
| 8 | May | 44.0 | 44.2 | 1% | 1% | 95.2 | 96.0 | 1% | 1% | 115.5 | 112.7 | -2% | -2% | 80.3 | 78.3 | -3% | -3% | 29.2 | 30.6 | 5% | 4% | 48.0 | 38.1 | -21% | -19% |
| 8 | June | 27.3 | 28.5 | 4% | 2% | 57.9 | 60.5 | 4% | 2% | 73.0 | 71.2 | -2% | -1% | 53.6 | 55.2 | 3% | 2% | 17.5 | 16.6 | -5% | -2% | 29.6 | 22.4 | -25% | -10% |
| 8 | July | 6.6 | 6.9 | 4% | 2% | 13.8 | 15.6 | 13% | 5% | 20.2 | 16.7 | -17% | -8% | 14.5 | 14.9 | 2% | 1% | 3.8 | 1.0 | -74% | -20% | 6.7 | 4.2 | -37% | -11% |
| 8 | August | 5.6 | 5.8 | 5% | 5% | 11.6 | 14.0 | 21% | 21% | 17.3 | 14.6 | -15% | -15% | 12.6 | 12.9 | 3% | 3% | 3.4 | 0.7 | -79% | -79% | 5.6 | 3.8 | -32% | -32% |
| 8 | September | 27.4 | 28.5 | 4% | 4% | 59.1 | 61.8 | 5% | 5% | 73.1 | 71.7 | -2% | -2% | 53.8 | 54.9 | 2% | 2% | 17.6 | 17.4 | -1% | -1% | 30.5 | 23.2 | -24% | -24% |
| 8 | October | 6.3 | 6.6 | 5% | 5% | 13.1 | 15.0 | 15% | 15% | 19.3 | 16.0 | -17% | -17% | 13.9 | 14.1 | 2% | 2% | 3.6 | 0.8 | -78% | -78% | 6.3 | 4.0 | -36% | -36% |
| 8 | November | 5.2 | 5.6 | 8% | 8% | 10.7 | 13.7 | 27% | 27% | 16.2 | 14.2 | -12% | -12% | 11.6 | 12.3 | 6% | 6% | 3.4 | 0.6 | -82% | -82% | 5.4 | 3.7 | -31% | -31% |
| 8 | December | 4.7 | 5.0 | 6% | 6% | 9.7 | 12.6 | 29% | 29% | 14.9 | 12.9 | -14% | -14% | 11.0 | 11.3 | 3% | 3% | 2.9 | 0.3 | -90% | -90% | 4.7 | 3.3 | -30% | -30% |
| 9 | January | 4.1 | 4.3 | 5% | 5% | 8.6 | 10.0 | 16% | 16% | 13.5 | 10.3 | -23% | -23% | 10.0 | 10.2 | 3% | 3% | 2.6 | 0.2 | -92% | -92% | 4.3 | 2.8 | -34% | -34% |
| 9 | February | 3.3 | 3.8 | 16% | 16% | 7.0 | 9.0 | 28% | 28% | 11.1 | 9.6 | -14% | -14% | 8.2 | 9.3 | 14% | 14% | 2.3 | 0.1 | -96% | -96% | 3.9 | 2.6 | -34% | -34% |
| 9 | March | 3.6 | 3.8 | 5% | 5% | 7.8 | 8.8 | 13% | 13% | 12.1 | 9.4 | -22% | -22% | 8.9 | 9.2 | 3% | 3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.4 | -38% | -38% |
| 9 | April | 20.1 | 20.9 | 4% | 4% | 44.2 | 44.1 | 0% | 0% | 52.9 | 50.1 | -5% | -5% | 38.6 | 39.6 | 3% | 3% | 12.2 | 12.3 | 1% | 1% | 22.9 | 16.5 | -28% | -28% |
| 9 | May | 46.3 | 46.5 | 0% | 0% | 100.4 | 99.0 | -1% | -1% | 122.0 | 117.9 | -3% | -3% | 85.6 | 83.5 | -2% | -2% | 30.9 | 32.5 | 5% | 4% | 50.7 | 40.0 | -21% | -20% |
| 9 | June | 19.5 | 20.3 | 4% | 2% | 40.8 | 40.9 | 0% | 0% | 52.1 | 48.1 | -8% | -3% | 38.5 | 39.9 | 4% | 2% | 11.7 | 10.0 | -14% | -3% | 20.6 | 14.5 | -29% | -8% |
| 9 | July | 6.5 | 6.7 | 3% | 1% | 13.6 | 13.4 | -1% | 0% | 19.9 | 15.3 | -23% | -11% | 14.4 | 14.6 | 2% | 1% | 3.7 | 0.9 | -76% | -20% | 6.6 | 3.9 | -41% | -12% |
| 9 | August | 5.5 | 5.7 | 3% | 3% | 11.4 | 11.9 | 4% | 4% | 17.0 | 13.4 | -22% | -22% | 12.4 | 12.7 | 3% | 3% | 3.4 | 0.7 | -79% | -79% | 5.6 | 3.6 | -36% | -36% |
| 9 | September | 4.7 | 5.0 | 7% | 7% | 9.7 | 10.8 | 11% | 11% | 14.7 | 12.1 | -18% | -18% | 11.0 | 11.6 | 6% | 6% | 3.0 | 0.4 | -86% | -86% | 4.9 | 3.2 | -35% | -35% |
| 9 | October | 7.2 | 7.4 | 2% | 2% | 14.9 | 14.5 | -3% | -3% | 21.1 | 16.8 | -20% | -20% | 16.7 | 17.0 | 2% | 2% | 3.5 | 1.2 | -65% | -65% | 7.0 | 4.1 | -42% | -42% |
| 9 | November | 4.7 | 5.0 | 7% | 7% | 9.7 | 10.6 | 9% | 9% | 14.5 | 11.9 | -18% | -18% | 10.8 | 11.3 | 6% | 6% | 2.9 | 0.2 | -93% | -93% | 4.9 | 3.1 | -38% | -38% |
| 9 | December | 4.1 | 4.3 | 4% | 4% | 8.8 | 9.7 | 10% | 10% | 13.3 | 10.7 | -20% | -20% | 9.8 | 10.0 | 2% | 2% | 2.6 | 0.1 | -96% | -96% | 4.4 | 2.8 | -37% | -37% |
| 10 | January | 3.6 | 3.8 | 4% | 4% | 7.8 | 8.3 | 6% | 6% | 12.0 | 9.3 | -22% | -22% | 8.8 | 9.0 | 2% | 2% | 2.5 | 0.1 | -96% | -96% | 4.0 | 2.5 | -37% | -37% |
| 10 | February | 3.9 | 4.5 | 14% | 14% | 8.3 | 9.3 | 12% | 12% | 12.3 | 10.8 | -12% | -12% | 9.5 | 10.7 | 13% | 13% | 2.6 | 0.3 | -88% | -88% | 4.5 | 2.8 | -38% | -38% |
| 10 | March | 11.3 | 11.4 | 1% | 1% | 24.7 | 22.6 | -9% | -9% | 31.4 | 26.4 | -16% | -16% | 23.4 | 23.6 | 1% | 1% | 5.6 | 4.4 | -21% | -21% | 12.2 | 7.5 | -38% | -38% |
| 10 | April | 19.0 | 19.8 | 4% | 4% | 40.9 | 40.1 | -2% | -2% | 48.4 | 45.4 | -6% | -6% | 33.8 | 34.9 | 3% | 3% | 12.1 | 10.7 | -11% | -11% | 21.0 | 15.0 | -29% | -29% |
| 10 | May | 35.4 | 35.5 | 0% | 0% | 76.3 | 74.1 | -3% | -3% | 92.8 | 88.2 | -5% | -4% | 64.1 | 62.5 | -2% | -2% | 23.4 | 23.5 | 1% | 0% | 38.4 | 29.6 | -23% | -17% |
| 10 | June | 6.4 | 6.7 | 5% | 1% | 13.4 | 12.8 | -4% | -1% | 19.1 | 15.2 | -20% | -3% | 13.7 | 14.0 | 2% | 0% | 4.0 | 1.0 | -75% | -6% | 6.8 | 3.9 | -42% | -4% |
| 10 | July | 5.6 | 5.7 | 2% | 1% | 11.6 | 11.3 | -3% | -1% | 17.0 | 13.3 | -22% | -9% | 12.3 | 12.3 | 0% | 0% | 3.5 | 0.7 | -80% | -20% | 5.7 | 3.6 | -37% | -10% |
| 10 | August | 4.8 | 5.0 | 3% | 3% | 10.1 | 10.1 | 0% | 0% | 15.1 | 11.9 | -21% | -21% | 11.3 | 11.3 | 0% | 0% | 3.0 | 0.4 | -87% | -87% | 4.9 | 3.1 | -37% | -37% |
| 10 | September | 5.1 | 5.4 | 6% | 6% | 10.7 | 10.8 | 1% | 1% | 15.8 | 12.8 | -19% | -19% | 12.3 | 12.7 | 3% | 3% | 3.2 | 0.5 | -84% | -84% | 5.3 | 3.2 | -40% | -40% |
| 10 | October | 4.6 | 4.7 | 3% | 3% | 9.6 | 9.4 | -2% | -2% | 14.3 | 11.1 | -22% | -22% | 10.8 | 10.8 | 0% | 0% | 2.7 | 0.1 | -96% | -96% | 4.7 | 2.7 | -42% | -42% |
| 10 | November | 3.8 | 4.0 | 7% | 7% | 8.1 | 8.5 | 5% | 5% | 12.3 | 10.0 | -19% | -19% | 9.1 | 9.4 | 4% | 4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 2.6 | -39% | -39% |
| 10 | December | 3.5 | 3.6 | 4% | 4% | 7.6 | 7.9 | 4% | 4% | 11.5 | 9.2 | -20% | -20% | 8.5 | 8.5 | 0% | 0% | 2.3 | 0.0 | -100% | -100% | 3.9 | 2.4 | -39% | -39% |
| 11 | January | 3.2 | 3.3 | 5% | 5% | 7.0 | 7.5 | 7% | 7% | 10.6 | 8.7 | -18% | -18% | 7.7 | 7.7 | 0% | 0% | 2.2 | 0.0 | -100% | -100% | 3.6 | 2.2 | -40% | -40% |
| 11 | February | 2.7 | 3.0 | 12% | 12% | 6.1 | 7.1 | 16% | 16% | 9.2 | 8.3 | -10% | -10% | 6.5 | 7.0 | 7% | 7% | 2.0 | 0.0 | -100% | -100% | 3.4 | 2.1 | -39% | -39% |
| 11 | March | 3.9 | 4.0 | 4% | 4% | 8.4 | 8.7 | 4% | 4% | 12.1 | 10.3 | -15% | -15% | 9.2 | 9.2 | 0% | 0% | 2.2 | 0.4 | -82% | -82% | 4.1 | 2.5 | -40% | -40% |
| 11 | April | 58.8 | 60.9 | 4% | 4% | 130.2 | 132.0 | 1% | 1% | 153.9 | 156.5 | 2% | 2% | 107.0 | 107.3 | 0% | 0% | 41.2 | 45.9 | 12% | 12% | 68.8 | 54.8 | -20% | -20% |
| 11 | May | 48.3 | 48.4 | 0% | 0% | 102.9 | 100.9 | -2% | -2% | 127.1 | 124.2 | -2% | -2% | 93.6 | 92.3 | -1% | -1% | 30.6 | 32.4 | 6% | 5% | 51.3 | 40.0 | -22% | -22% |
| 11 | June | 16.6 | 17.3 | 4% | 1% | 34.0 | 33.3 | -2% | -1% | 44.2 | 40.5 | -8% | -3% | 33.0 | 34.1 | 3% | 1% | 9.2 | 7.1 | -23% | -4% | 16.7 | 11.3 | -33% | -8% |
| 11 | July | 6.6 | 6.8 | 2% | 1% | 13.6 | 12.9 | -5% | -2% | 20.1 | 15.7 | -22% | -10% | 14.3 | 14.3 | 0% | 0% | 3.7 | 0.9 | -76% | -20% | 6.5 | 3.8 | -41% | -12% |
| 11 | August | 5.6 | 5.8 | 3% | 3% | 11.5 | 11.4 | -1% | -1% | 17.3 | 13.8 | -20% | -20% | 12.4 | 12.4 | 0% | 0% | 3.4 | 0.6 | -82% | -82% | 5.5 | 3.4 | -38% | -38% |
| 11 | September | 4.8 | 5.1 | 6% | 6% | 9.8 | 10.3 | 5% | 5% | 15.0 | 12.5 | -17% | -17% | 10.9 | 11.2 | 3% | 3% | 3.0 | 0.4 | -86% | -86% | 4.8 | 3.1 | -36% | -36% |
| 11 | October | 17.2 | 17.4 | 1% | 1% | 37.3 | 35.2 | -5% | -5% | 46.0 | 41.2 | -10% | -10% | 34.7 | 34.6 | 0% | 0% | 9.8 | 8.5 | -13% | -13% | 18.5 | 12.6 | -32% | -32% |
| 11 | November | 6.0 | 6.3 | 6% | 6% | 12.3 | 12.1 | -1% | -1% | 18.1 | 14.7 | -18% | -18% | 12.9 | 13.1 | 2% | 2% | 3.6 | 0.7 | -81% | -81% | 6.1 | 3.5 | -42% | -42% |
| 11 | December | 5.2 | 5.3 | 3% | 3% | 10.8 | 10.8 | 1% | 1% | 16.2 | 13.0 | -20% | -20% | 11.5 | 11.4 | -1% | -1% | 3.2 | 0.5 | -84% | -84% | 5.3 | 3.3 | -37% | -37% |
| 12 | January | 4.5 | 4.7 | 4% | 4% | 9.4 | 11.1 | 17% | 17% | 14.4 | 13.0 | -10% | -10% | 10.4 | 10.3 | -1% | -1% | 2.9 | 0.2 | -93% | -93% | 4.6 | 3.1 | -34% | -34% |
| 12 | February | 3.6 | 4.2 | 16% | 16% | 7.6 | 10.5 | 37% | 37% | 11.8 | 12.2 | 4% | 4% | 8.4 | 9.2 | 10% | 10% | 2.6 | 0.2 | -92% | -92% | 4.2 | 2.9 | -32% | -32% |
| 12 | March | 18.5 | 18.7 | 1% | 1% | 40.3 | 40.0 | -1% | -1% | 48.9 | 46.0 | -6% | -6% | 35.3 | 35.1 | -1% | -1% | 10.8 | 10.2 | -6% | -6% | 20.1 | 14.4 | -28% | -28% |
| 12 | April | 38.1 | 39.6 | 4% | 4% | 82.3 | 84.8 | 3% | 3% | 100.4 | 101.4 | 1% | 1% | 69.2 | 69.6 | 1% | 1% | 26.1 | 26.9 | 3% | 3% | 42.8 | 33.6 | -21% | -21% |
| 12 | May | 92.4 | 92.6 | 0% | 0% | 199.5 | 199.2 | 0% | 0% | 248.5 | 249.6 | 0% | 0% | 182.4 | 179.5 | -2% | -2% | 61.8 | 68.0 | 10% | 10% | 101.0 | 81.7 | -19% | -19% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | June | 65.8 | 68.2 | 4% | 4% | 139.7 | 144.0 | 3% | 3% | 176.6 | 182.0 | 3% | 3% | 130.0 | 132.9 | 2% | 2% | 43.7 | 46.8 | 7% | 6% | 72.0 | 57.4 | -20% | -20% |
| 12 | July | 7.5 | 7.7 | 3% | 2% | 15.3 | 16.0 | 5% | 2% | 22.9 | 19.3 | -16% | -9% | 16.0 | 16.0 | 0% | 0% | 4.1 | 1.1 | -73% | -21% | 7.2 | 4.4 | -39% | -13% |
| 12 | August | 6.2 | 6.4 | 4% | 4% | 12.7 | 14.1 | 11% | 11% | 19.0 | 16.7 | -12% | -12% | 13.3 | 13.2 | 0% | 0% | 3.6 | 0.8 | -78% | -78% | 6.1 | 3.9 | -35% | -35% |
| 12 | September | 12.7 | 13.4 | 5% | 5% | 26.6 | 27.7 | 4% | 4% | 34.9 | 32.9 | -6% | -6% | 27.4 | 28.2 | 3% | 3% | 6.3 | 4.4 | -30% | -30% | 13.1 | 8.6 | -35% | -35% |
| 12 | October | 11.6 | 11.8 | 2% | 2% | 24.0 | 24.4 | 2% | 2% | 31.7 | 28.6 | -10% | -10% | 23.4 | 23.4 | 0% | 0% | 6.1 | 3.7 | -39% | -39% | 11.4 | 7.5 | -34% | -34% |
| 12 | November | 6.0 | 6.4 | 7% | 7% | 12.6 | 14.4 | 14% | 14% | 18.3 | 17.0 | -7% | -7% | 12.5 | 12.9 | 3% | 3% | 3.9 | 1.0 | -74% | -74% | 6.4 | 4.2 | -34% | -34% |
| 12 | December | 5.3 | 5.6 | 4% | 4% | 11.2 | 13.0 | 16% | 16% | 16.6 | 15.3 | -8% | -8% | 11.3 | 11.3 | 0% | 0% | 3.5 | 0.7 | -80% | -80% | 5.5 | 3.8 | -30% | -30% |
| 13 | January | 4.7 | 4.8 | 2% | 2% | 9.9 | 9.2 | -7% | -7% | 15.0 | 12.5 | -17% | -17% | 11.1 | 5.4 | -52% | -52% | 3.1 | 0.4 | -87% | -87% | 4.9 | 3.6 | -26% | -26% |
| 13 | February | 3.8 | 4.2 | 11% | 11% | 8.0 | 7.7 | -4% | -4% | 12.3 | 10.8 | -13% | -13% | 9.2 | 7.5 | -18% | -18% | 2.8 | 0.2 | -93% | -93% | 4.4 | 3.1 | -30% | -30% |
| 13 | March | 4.0 | 4.0 | -1% | -1% | 8.5 | 7.4 | -13% | -13% | 13.1 | 10.3 | -21% | -21% | 9.8 | 7.8 | -20% | -20% | 2.6 | 0.1 | -96% | -96% | 4.2 | 2.9 | -31% | -31% |
| 13 | April | 11.1 | 11.4 | 3% | 3% | 24.2 | 20.4 | -16% | -16% | 31.5 | 26.1 | -17% | -17% | 24.1 | 28.3 | 17% | 17% | 5.7 | 1.9 | -67% | -57% | 12.7 | 8.5 | -32% | -32% |
| 13 | May | 31.4 | 31.3 | 0% | 0% | 67.9 | 42.0 | -38% | -31% | 82.3 | 54.6 | -34% | -24% | 54.8 | 55.9 | 2% | 2% | 20.6 | 15.3 | -26% | -14% | 34.9 | 9.6 | -72% | -48% |
| 13 | June | 49.7 | 51.4 | 3% | 3% | 107.6 | 64.2 | -40% | -37% | 133.8 | 88.2 | -34% | -33% | 94.9 | 97.0 | 2% | 2% | 34.4 | 27.3 | -21% | -14% | 57.5 | 10.9 | -81% | -66% |
| 13 | July | 6.8 | 7.0 | 2% | 1% | 14.2 | 12.1 | -15% | -5% | 21.0 | 17.4 | -17% | -8% | 15.3 | 13.0 | -15% | -7% | 4.0 | 1.0 | -75% | -22% | 6.9 | 5.1 | -27% | -8% |
| 13 | August | 5.8 | 5.8 | 1% | 1% | 12.0 | 10.2 | -15% | -15% | 17.9 | 15.1 | -15% | -15% | 13.2 | 11.1 | -16% | -16% | 3.6 | 0.7 | -80% | -80% | 5.8 | 4.3 | -25% | -25% |
| 13 | September | 5.1 | 5.3 | 3% | 3% | 10.5 | 9.3 | -11% | -11% | 15.8 | 13.9 | -12% | -12% | 12.1 | 10.5 | -13% | -13% | 3.2 | 0.4 | -88% | -88% | 5.2 | 3.8 | -27% | -27% |
| 13 | October | 9.7 | 9.7 | 0% | 0% | 20.6 | 18.6 | -10% | -10% | 27.9 | 24.9 | -11% | -11% | 22.9 | 24.3 | 6% | 6% | 4.4 | 0.8 | -82% | -82% | 10.1 | 8.5 | -16% | -16% |
| 13 | November | 5.3 | 5.5 | 3% | 3% | 11.0 | 9.6 | -13% | -13% | 16.0 | 14.2 | -11% | -11% | 12.1 | 10.6 | -12% | -12% | 3.3 | 0.5 | -85% | -85% | 5.5 | 3.9 | -29% | -29% |
| 13 | December | 4.8 | 4.8 | 0% | 0% | 10.0 | 8.8 | -12% | -12% | 14.7 | 13.0 | -11% | -11% | 11.0 | 9.2 | -16% | -16% | 3.2 | 0.4 | -87% | -87% | 5.0 | 3.6 | -27% | -27% |
| 14 | January | 4.2 | 4.2 | -1% | -1% | 8.9 | 8.1 | -9% | -9% | 13.2 | 12.0 | -9% | -9% | 10.0 | 8.4 | -16% | -16% | 2.8 | 0.2 | -93% | -93% | 4.4 | 3.2 | -27% | -27% |
| 14 | February | 3.4 | 3.7 | 11% | 11% | 7.2 | 7.5 | 4% | 4% | 10.8 | 11.1 | 3% | 3% | 8.2 | 7.7 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 3.0 | -27% | -27% |
| 14 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.2 | -3% | -3% | 11.0 | 10.4 | -5% | -5% | 8.3 | 7.1 | -14% | -14% | 2.3 | 0.0 | -100% | -100% | 3.8 | 2.8 | -26% | -26% |
| 14 | April | 21.5 | 22.0 | 3% | 3% | 47.2 | 32.8 | -31% | -31% | 56.2 | 41.7 | -26% | -26% | 39.6 | 46.4 | 17% | 17% | 13.5 | 8.7 | -36% | -36% | 25.2 | 9.3 | -63% | -63% |
| 14 | May | 34.0 | 34.1 | 0% | 0% | 73.2 | 45.5 | -38% | -33% | 89.6 | 60.6 | -32% | -25% | 60.2 | 60.9 | 1% | 1% | 22.1 | 16.7 | -24% | -14% | 37.5 | 9.8 | -74% | -53% |
| 14 | June | 8.9 | 9.3 | 4% | 1% | 18.5 | 17.2 | -7% | -1% | 25.1 | 22.8 | -9% | -2% | 19.5 | 19.5 | 0% | 0% | 4.6 | 1.3 | -71% | -7% | 9.2 | 7.3 | -20% | -3% |
| 14 | July | 6.0 | 6.0 | 0% | 0% | 12.5 | 11.1 | -12% | -4% | 18.0 | 15.8 | -12% | -5% | 13.4 | 11.4 | -15% | -7% | 3.7 | 0.9 | -76% | -20% | 6.1 | 4.7 | -24% | -7% |
| 14 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 9.5 | -11% | -11% | 15.6 | 14.0 | -11% | -11% | 11.7 | 10.0 | -15% | -15% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.0 | -24% | -24% |
| 14 | September | 4.3 | 4.5 | 4% | 4% | 9.1 | 8.8 | -4% | -4% | 13.5 | 12.9 | -4% | -4% | 10.4 | 9.1 | -12% | -12% | 2.9 | 0.3 | -90% | -90% | 4.7 | 3.6 | -24% | -24% |
| 14 | October | 7.3 | 7.3 | 0% | 0% | 15.4 | 14.4 | -6% | -6% | 21.1 | 19.8 | -6% | -6% | 17.2 | 18.2 | 6% | 6% | 3.4 | 0.2 | -94% | -94% | 7.5 | 6.5 | -14% | -14% |
| 14 | November | 4.5 | 4.6 | 3% | 3% | 9.5 | 8.9 | -7% | -7% | 13.7 | 13.1 | -4% | -4% | 10.5 | 9.3 | -11% | -11% | 2.9 | 0.3 | -90% | -90% | 4.9 | 3.6 | -27% | -27% |
| 14 | December | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.2 | -5% | -5% | 12.5 | 11.9 | -5% | -5% | 9.5 | 8.2 | -14% | -14% | 2.7 | 0.2 | -93% | -93% | 4.4 | 3.3 | -24% | -24% |
| 15 | January | 3.5 | 3.5 | 0% | 0% | 7.8 | 7.7 | -1% | -1% | 11.3 | 11.1 | -2% | -2% | 8.6 | 7.5 | -13% | -13% | 2.5 | 0.1 | -96% | -96% | 4.0 | 3.1 | -21% | -21% |
| 15 | February | 3.0 | 3.2 | 7% | 7% | 6.7 | 7.4 | 11% | 11% | 9.8 | 10.5 | 7% | 7% | 7.3 | 6.9 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.0 | -20% | -20% |
| 15 | March | 3.0 | 2.9 | -1% | -1% | 6.6 | 7.1 | 7% | 7% | 9.6 | 9.9 | 2% | 2% | 7.1 | 6.3 | -11% | -11% | 2.1 | 0.0 | -100% | -100% | 3.5 | 2.8 | -17% | -17% |
| 15 | April | 6.7 | 6.9 | 3% | 3% | 14.3 | 15.4 | 8% | 6% | 19.2 | 20.1 | 5% | 4% | 15.9 | 19.7 | 24% | 24% | 3.0 | 0.0 | -100% | -44% | 7.2 | 7.6 | 6% | 4% |
| 15 | May | 29.6 | 29.5 | 0% | 0% | 64.9 | 63.8 | -2% | -1% | 75.9 | 74.6 | -2% | -1% | 49.8 | 53.8 | 8% | 6% | 19.1 | 13.9 | -27% | -14% | 33.6 | 32.6 | -3% | -2% |
| 15 | June | 42.2 | 43.6 | 3% | 3% | 91.3 | 94.6 | 4% | 3% | 111.6 | 113.7 | 2% | 1% | 76.9 | 79.5 | 3% | 3% | 29.0 | 22.7 | -22% | -13% | 48.7 | 48.9 | 0% | 0% |
| 15 | July | 6.4 | 6.5 | 2% | 1% | 13.2 | 12.7 | -4% | -1% | 19.0 | 17.5 | -8% | -4% | 14.0 | 12.1 | -14% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 5.7 | -10% | -3% |
| 15 | August | 5.4 | 5.5 | 1% | 1% | 11.1 | 10.9 | -3% | -3% | 16.4 | 15.4 | -6% | -6% | 12.4 | 10.6 | -15% | -15% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -8% | -8% |
| 15 | September | 7.7 | 8.0 | 4% | 4% | 16.1 | 16.4 | 2% | 2% | 22.2 | 22.0 | -1% | -1% | 18.1 | 19.1 | 6% | 6% | 3.7 | 0.5 | -87% | -87% | 8.0 | 7.8 | -3% | -3% |
| 15 | October | 18.4 | 18.4 | 0% | 0% | 39.4 | 39.5 | 0% | 0% | 48.2 | 47.7 | -1% | -1% | 35.7 | 37.1 | 4% | 4% | 10.8 | 6.5 | -40% | -40% | 19.8 | 20.0 | 1% | 1% |
| 15 | November | 5.8 | 6.0 | 3% | 3% | 12.2 | 12.9 | 6% | 6% | 17.6 | 18.0 | 3% | 3% | 12.9 | 11.5 | -11% | -11% | 3.8 | 0.9 | -76% | -76% | 6.2 | 6.4 | 4% | 4% |
| 15 | December | 5.1 | 5.1 | 0% | 0% | 10.6 | 11.0 | 4% | 4% | 15.6 | 15.8 | 1% | 1% | 11.6 | 9.9 | -14% | -14% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.6 | 6% | 6% |
| 16 | January | 4.4 | 4.4 | 0% | 0% | 9.4 | 9.9 | 5% | 5% | 13.9 | 14.4 | 3% | 3% | 10.5 | 9.0 | -15% | -15% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.1 | 9% | 9% |
| 16 | February | 3.5 | 3.9 | 10% | 10% | 7.5 | 8.7 | 15% | 15% | 11.3 | 13.0 | 15% | 15% | 8.7 | 8.3 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.5 | 6% | 6% |
| 16 | March | 3.5 | 3.5 | 0% | 0% | 7.5 | 7.8 | 3% | 3% | 11.4 | 11.9 | 4% | 4% | 8.7 | 7.6 | -13% | -13% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.0 | 5% | 5% |
| 16 | April | 7.3 | 7.6 | 3% | 3% | 15.5 | 15.9 | 3% | 2% | 21.0 | 21.6 | 3% | 2% | 17.5 | 20.8 | 19% | 19% | 3.2 | 0.0 | -100% | -48% | 7.8 | 7.7 | -1% | -1% |
| 16 | May | 81.7 | 81.6 | 0% | 0% | 179.7 | 181.4 | 1% | 1% | 217.5 | 219.1 | 1% | 1% | 149.8 | 151.8 | 1% | 1% | 56.5 | 46.5 | -18% | -18% | 94.3 | 95.9 | 2% | 2% |
| 16 | June | 68.5 | 70.8 | 3% | 3% | 146.0 | 152.0 | 4% | 4% | 183.2 | 189.7 | 4% | 4% | 133.9 | 136.2 | 2% | 2% | 45.9 | 37.5 | -18% | -17% | 77.1 | 78.0 | 1% | 1% |
| 16 | July | 7.0 | 7.2 | 2% | 1% | 14.1 | 13.7 | -3% | -1% | 21.1 | 20.1 | -5% | -2% | 16.0 | 13.6 | -15% | -8% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.0 | -9% | -3% |
| 16 | August | 5.8 | 5.9 | 0% | 0% | 11.8 | 11.4 | -3% | -3% | 17.8 | 16.9 | -5% | -5% | 13.4 | 11.5 | -14% | -14% | 3.4 | 0.7 | -79% | -79% | 5.6 | 5.1 | -7% | -7% |
| 16 | September | 6.1 | 6.4 | 4% | 4% | 12.5 | 12.6 | 1% | 1% | 18.3 | 18.2 | -1% | -1% | 14.7 | 14.2 | -3% | -3% | 3.4 | 0.4 | -88% | -88% | 6.1 | 5.7 | -5% | -5% |
| 16 | October | 5.4 | 5.3 | -1% | -1% | 10.8 | 10.6 | -1% | -1% | 16.2 | 15.7 | -3% | -3% | 12.6 | 11.0 | -13% | -13% | 3.0 | 0.3 | -90% | -90% | 5.0 | 4.9 | -2% | -2% |
| 16 | November | 4.9 | 5.1 | 3% | 3% | 9.8 | 10.4 | 6% | 6% | 14.9 | 15.4 | 3% | 3% | 11.6 | 10.8 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.8 | 5.0 | 5% | 5% |
| 16 | December | 4.4 | 4.4 | -1% | -1% | 9.0 | 9.1 | 1% | 1% | 13.7 | 13.7 | 0% | 0% | 10.5 | 9.4 | -11% | -11% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.4 | 1% | 1% |

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| 17 | January | 3.9 | 3.8 | 0% | 0% | 8.1 | 8.2 | 1% | 1% | 12.4 | 12.5 | 1% | 1% | 9.4 | 8.4 | -10% | -10% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.0 | 1% | 1% |
| 17 | February | 3.1 | 3.4 | 10% | 10% | 6.7 | 7.7 | 16% | 16% | 10.2 | 11.8 | 15% | 15% | 7.7 | 7.8 | 1% | 1% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 7% | 7% |
| 17 | March | 3.1 | 3.1 | 0% | 0% | 6.8 | 7.2 | 6% | 6% | 10.4 | 11.0 | 6% | 6% | 7.8 | 7.1 | -8% | -8% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 17 | April | 5.4 | 5.6 | 3% | 3% | 11.4 | 11.7 | 3% | 2% | 16.1 | 16.6 | 3% | 2% | 13.4 | 16.1 | 20% | 17% | 2.7 | 0.0 | -100% | -40% | 5.7 | 5.6 | -2% | -1% |
| 17 | May | 47.4 | 47.3 | 0% | 0% | 104.5 | 105.1 | 1% | 1% | 124.8 | 124.8 | 0% | 0% | 83.5 | 88.2 | 6% | 6% | 31.3 | 24.3 | -22% | -19% | 54.6 | 55.2 | 1% | 1% |
| 17 | June | 57.4 | 59.4 | 4% | 4% | 123.5 | 128.4 | 4% | 4% | 152.9 | 158.2 | 3% | 3% | 110.7 | 114.1 | 3% | 3% | 38.9 | 31.4 | -19% | -15% | 65.8 | 66.2 | 1% | 1% |
| 17 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 13.1 | -4% | -1% | 20.2 | 19.2 | -5% | -2% | 14.9 | 13.2 | -12% | -6% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.7 | -10% | -3% |
| 17 | August | 5.7 | 5.7 | 1% | 1% | 11.5 | 11.2 | -2% | -2% | 17.2 | 16.5 | -4% | -4% | 13.1 | 11.4 | -13% | -13% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.0 | -7% | -7% |
| 17 | September | 4.8 | 4.9 | 2% | 2% | 9.7 | 9.8 | 1% | 1% | 14.8 | 14.7 | -1% | -1% | 11.5 | 10.3 | -10% | -10% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.5 | -5% | -5% |
| 17 | October | 4.4 | 4.4 | 1% | 1% | 8.9 | 8.9 | 0% | 0% | 13.8 | 13.5 | -2% | -2% | 10.8 | 9.4 | -13% | -13% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -3% | -3% |
| 17 | November | 3.9 | 4.0 | 2% | 2% | 7.9 | 8.1 | 3% | 3% | 12.2 | 12.5 | 3% | 3% | 9.5 | 8.6 | -9% | -9% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 17 | December | 3.6 | 3.5 | -1% | -1% | 7.4 | 7.9 | 6% | 6% | 11.5 | 12.0 | 4% | 4% | 8.8 | 7.9 | -10% | -10% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.0 | 11% | 11% |
| 18 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 7.2 | 7% | 7% | 10.5 | 11.1 | 6% | 6% | 8.0 | 7.3 | -9% | -9% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.8 | 12% | 12% |
| 18 | February | 2.6 | 2.8 | 9% | 9% | 5.6 | 6.3 | 13% | 13% | 8.7 | 10.0 | 15% | 15% | 6.6 | 6.7 | 2% | 2% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 4% | 4% |
| 18 | March | 2.6 | 2.6 | 0% | 0% | 5.8 | 6.0 | 4% | 4% | 8.9 | 9.3 | 6% | 6% | 6.6 | 6.1 | -7% | -7% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.2 | 6% | 6% |
| 18 | April | 15.1 | 15.5 | 3% | 3% | 33.6 | 34.8 | 4% | 4% | 41.3 | 42.3 | 3% | 3% | 30.3 | 38.2 | 26% | 26% | 8.3 | 4.5 | -46% | -46% | 17.8 | 18.1 | 1% | 1% |
| 18 | May | 47.8 | 47.9 | 0% | 0% | 104.1 | 104.8 | 1% | 1% | 124.9 | 125.1 | 0% | 0% | 84.3 | 86.0 | 2% | 2% | 31.8 | 25.4 | -20% | -17% | 53.9 | 54.5 | 1% | 1% |
| 18 | June | 52.8 | 54.7 | 4% | 4% | 113.5 | 118.3 | 4% | 4% | 140.9 | 146.3 | 4% | 4% | 102.9 | 105.8 | 3% | 3% | 35.6 | 28.6 | -20% | -14% | 60.3 | 61.1 | 1% | 1% |
| 18 | July | 6.5 | 6.6 | 2% | 1% | 13.3 | 12.9 | -3% | -1% | 19.8 | 18.9 | -4% | -2% | 14.7 | 12.9 | -12% | -6% | 3.6 | 0.8 | -77% | -20% | 6.2 | 5.7 | -8% | -2% |
| 18 | August | 5.6 | 5.5 | -1% | -1% | 11.2 | 10.8 | -3% | -3% | 16.9 | 16.1 | -5% | -5% | 12.8 | 11.1 | -13% | -13% | 3.2 | 0.6 | -81% | -81% | 5.2 | 4.9 | -6% | -6% |
| 18 | September | 4.7 | 4.8 | 3% | 3% | 9.4 | 9.5 | 1% | 1% | 14.4 | 14.3 | -1% | -1% | 11.2 | 10.0 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.3 | -6% | -6% |
| 18 | October | 8.2 | 8.2 | 0% | 0% | 17.1 | 16.8 | -1% | -1% | 23.8 | 23.0 | -3% | -3% | 19.8 | 21.2 | 7% | 7% | 3.5 | 0.2 | -94% | -94% | 8.1 | 7.9 | -2% | -2% |
| 18 | November | 5.1 | 5.1 | 1% | 1% | 10.3 | 10.6 | 3% | 3% | 15.2 | 15.5 | 2% | 2% | 11.7 | 10.6 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 5.0 | 5.1 | 2% | 2% |
| 18 | December | 4.4 | 4.4 | 0% | 0% | 9.2 | 9.4 | 2% | 2% | 13.7 | 13.9 | 1% | 1% | 10.5 | 9.2 | -12% | -12% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.6 | 1% | 1% |
| 19 | January | 3.9 | 3.9 | -1% | -1% | 8.2 | 8.3 | 2% | 2% | 12.3 | 12.6 | 2% | 2% | 9.3 | 8.3 | -11% | -11% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.2 | 2% | 2% |
| 19 | February | 3.2 | 3.4 | 6% | 6% | 6.9 | 7.6 | 10% | 10% | 10.4 | 11.6 | 11% | 11% | 8.0 | 7.7 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 5% | 5% |
| 19 | March | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.8 | 1% | 1% | 10.2 | 10.5 | 4% | 4% | 7.7 | 7.0 | -8% | -8% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 0% | 0% |
| 19 | April | 5.7 | 5.9 | 3% | 3% | 11.9 | 12.1 | 1% | 1% | 16.6 | 17.0 | 2% | 2% | 14.0 | 16.9 | 21% | 18% | 2.8 | 0.1 | -96% | -40% | 5.9 | 5.6 | -5% | -3% |
| 19 | May | 11.7 | 11.6 | 0% | 0% | 25.8 | 25.1 | -3% | -1% | 32.2 | 31.3 | -3% | -1% | 23.0 | 26.9 | 17% | 6% | 6.1 | 2.5 | -59% | -10% | 13.2 | 12.6 | -4% | -1% |
| 19 | June | 5.2 | 5.3 | 4% | 0% | 10.8 | 10.7 | -1% | 0% | 14.8 | 14.8 | 0% | 0% | 11.1 | 10.7 | -4% | -1% | 3.1 | 0.4 | -87% | -6% | 5.4 | 4.9 | -9% | -1% |
| 19 | July | 4.7 | 4.7 | 0% | 0% | 9.9 | 9.4 | -5% | -1% | 13.5 | 13.2 | -3% | -1% | 10.1 | 9.0 | -10% | -4% | 3.0 | 0.4 | -87% | -19% | 4.9 | 4.3 | -11% | -2% |
| 19 | August | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.3 | -4% | -4% | 12.1 | 12.0 | -1% | -1% | 9.1 | 8.0 | -11% | -11% | 2.8 | 0.2 | -93% | -93% | 4.4 | 4.0 | -10% | -10% |
| 19 | September | 3.5 | 3.6 | 3% | 3% | 7.5 | 7.6 | 2% | 2% | 10.6 | 11.2 | 5% | 5% | 7.8 | 7.4 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.0 | 3.8 | -4% | -4% |
| 19 | October | 9.5 | 9.5 | 0% | 0% | 20.6 | 20.4 | -1% | -1% | 26.4 | 26.0 | -1% | -1% | 20.1 | 23.8 | 19% | 19% | 4.7 | 1.1 | -76% | -76% | 10.3 | 10.1 | -2% | -2% |
| 19 | November | 4.4 | 4.5 | 4% | 4% | 9.3 | 10.0 | 7% | 7% | 12.8 | 13.6 | 7% | 7% | 9.3 | 8.6 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.8 | 5.1 | 7% | 7% |
| 19 | December | 3.9 | 4.0 | 1% | 1% | 8.6 | 8.8 | 3% | 3% | 11.8 | 12.2 | 3% | 3% | 8.5 | 7.6 | -11% | -11% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.5 | 3% | 3% |
| 20 | January | 3.6 | 3.6 | 1% | 1% | 7.8 | 8.3 | 7% | 7% | 10.8 | 11.6 | 7% | 7% | 7.7 | 7.0 | -10% | -10% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.4 | 11% | 11% |
| 20 | February | 2.9 | 3.2 | 11% | 11% | 6.4 | 7.8 | 22% | 22% | 9.0 | 10.9 | 22% | 22% | 6.4 | 6.5 | 2% | 2% | 2.2 | 0.1 | -96% | -96% | 3.7 | 4.3 | 17% | 17% |
| 20 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.8 | 4% | 4% | 9.2 | 9.8 | 6% | 6% | 6.4 | 6.0 | -7% | -7% | 2.1 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 20 | April | 39.5 | 40.8 | 3% | 3% | 87.5 | 91.1 | 4% | 4% | 103.1 | 107.3 | 4% | 4% | 67.2 | 75.9 | 13% | 13% | 27.4 | 20.8 | -24% | -24% | 47.3 | 47.9 | 1% | 1% |
| 20 | May | 80.4 | 80.4 | 0% | 0% | 173.9 | 175.5 | 1% | 1% | 213.5 | 214.4 | 0% | 0% | 152.2 | 151.8 | 0% | 0% | 53.6 | 44.3 | -17% | -17% | 90.1 | 91.4 | 2% | 2% |
| 20 | June | 42.2 | 43.7 | 4% | 3% | 88.8 | 92.3 | 4% | 3% | 112.4 | 115.5 | 3% | 2% | 83.2 | 84.5 | 2% | 2% | 27.2 | 21.1 | -22% | -12% | 46.3 | 46.6 | 1% | 0% |
| 20 | July | 6.8 | 6.9 | 2% | 1% | 13.7 | 13.3 | -3% | -1% | 20.5 | 19.4 | -5% | -3% | 15.4 | 13.4 | -13% | -7% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.8 | -10% | -3% |
| 20 | August | 5.6 | 5.6 | 0% | 0% | 11.4 | 11.2 | -2% | -2% | 17.3 | 16.4 | -5% | -5% | 13.1 | 11.3 | -13% | -13% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.1 | -6% | -6% |
| 20 | September | 6.5 | 6.7 | 4% | 4% | 13.2 | 13.3 | 1% | 1% | 19.2 | 18.9 | -1% | -1% | 15.4 | 15.5 | 1% | 1% | 3.4 | 0.4 | -88% | -88% | 6.4 | 6.1 | -5% | -5% |
| 20 | October | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.1 | -1% | -1% | 16.8 | 16.2 | -4% | -4% | 13.0 | 11.7 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 5.3 | 5.2 | -2% | -2% |
| 20 | November | 4.6 | 4.7 | 3% | 3% | 9.4 | 9.7 | 4% | 4% | 14.2 | 14.5 | 2% | 2% | 11.0 | 10.1 | -8% | -8% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.6 | 0% | 0% |
| 20 | December | 4.2 | 4.1 | -1% | -1% | 8.6 | 8.7 | 2% | 2% | 13.1 | 13.2 | 1% | 1% | 10.0 | 9.0 | -10% | -10% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.3 | 4% | 4% |
| 21 | January | 3.7 | 3.6 | 0% | 0% | 7.7 | 7.9 | 2% | 2% | 11.9 | 12.1 | 2% | 2% | 9.0 | 8.2 | -9% | -9% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 3% | 3% |
| 21 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.7 | 21% | 21% | 9.8 | 11.7 | 19% | 19% | 7.4 | 7.6 | 3% | 3% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.1 | 15% | 15% |
| 21 | March | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.2 | -1% | -1% | 11.1 | 11.1 | 0% | 0% | 8.4 | 8.1 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.7 | 3.5 | -3% | -3% |
| 21 | April | 21.3 | 21.9 | 3% | 3% | 47.0 | 48.1 | 2% | 2% | 56.3 | 57.6 | 2% | 2% | 40.2 | 48.2 | 20% | 20% | 13.0 | 8.2 | -37% | -37% | 25.0 | 24.8 | -1% | -1% |
| 21 | May | 28.1 | 28.3 | 1% | 0% | 60.0 | 60.2 | 0% | 0% | 73.3 | 72.7 | -1% | 0% | 49.9 | 51.5 | 3% | 2% | 17.5 | 12.7 | -28% | -13% | 30.5 | 30.4 | 0% | 0% |
| 21 | June | 8.2 | 8.5 | 4% | 1% | 17.0 | 17.1 | 0% | 0% | 23.5 | 23.0 | -2% | 0% | 17.9 | 18.2 | 2% | 0% | 4.2 | 1.0 | -76% | -7% | 8.5 | 7.9 | -7% | -1% |
| 21 | July | 6.0 | 6.0 | 0% | 0% | 12.4 | 11.9 | -4% | -1% | 17.8 | 16.9 | -5% | -2% | 13.1 | 11.7 | -11% | -5% | 3.7 | 0.9 | -76% | -20% | 6.0 | 5.4 | -10% | -3% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | August | 5.1 | 5.1 | -1% | -1% | 10.6 | 10.3 | -2% | -2% | 15.4 | 15.0 | -3% | -3% | 11.7 | 10.4 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.9 | -5% | -5% |
| 21 | September | 5.5 | 5.7 | 4% | 4% | 11.5 | 11.6 | 1% | 1% | 16.4 | 16.6 | 1% | 1% | 13.0 | 13.1 | 1% | 1% | 3.3 | 0.4 | -88% | -88% | 5.7 | 5.4 | -6% | -6% |
| 21 | October | 4.9 | 4.9 | 0% | 0% | 10.3 | 10.1 | -2% | -2% | 14.8 | 14.7 | -1% | -1% | 11.5 | 10.6 | -8% | -8% | 3.0 | 0.3 | -90% | -90% | 5.0 | 4.8 | -5% | -5% |
| 21 | November | 5.2 | 5.3 | 3% | 3% | 10.8 | 11.5 | 7% | 7% | 15.3 | 16.3 | 7% | 7% | 12.2 | 12.5 | 3% | 3% | 3.1 | 0.2 | -93% | -93% | 5.4 | 5.8 | 7% | 7% |
| 21 | December | 4.4 | 4.3 | 0% | 0% | 9.2 | 9.4 | 2% | 2% | 13.2 | 13.6 | 3% | 3% | 10.1 | 9.4 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.6 | 4.8 | 4% | 4% |
| 22 | January | 3.8 | 3.7 | -1% | -1% | 8.2 | 8.5 | 4% | 4% | 11.8 | 12.4 | 5% | 5% | 8.9 | 8.4 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.4 | 6% | 6% |
| 22 | February | 3.1 | 3.5 | 12% | 12% | 6.8 | 8.3 | 23% | 23% | 9.8 | 12.0 | 22% | 22% | 7.4 | 7.8 | 5% | 5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.6 | 18% | 18% |
| 22 | March | 3.1 | 3.1 | 0% | 0% | 7.0 | 7.2 | 4% | 4% | 10.1 | 10.7 | 6% | 6% | 7.4 | 7.1 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 5% | 5% |
| 22 | April | 6.3 | 6.6 | 3% | 3% | 13.5 | 13.6 | 1% | 1% | 18.3 | 18.6 | 2% | 1% | 14.9 | 18.6 | 25% | 24% | 2.9 | 0.0 | -100% | -44% | 6.8 | 6.5 | -5% | -3% |
| 22 | May | 72.1 | 72.0 | 0% | 0% | 158.9 | 160.4 | 1% | 1% | 190.4 | 191.4 | 1% | 1% | 129.0 | 132.8 | 3% | 3% | 49.2 | 40.0 | -19% | -19% | 83.4 | 84.8 | 2% | 2% |
| 22 | June | 88.2 | 91.2 | 3% | 3% | 188.6 | 196.5 | 4% | 4% | 235.1 | 244.3 | 4% | 4% | 171.8 | 175.1 | 2% | 2% | 59.6 | 49.4 | -17% | -17% | 100.0 | 101.4 | 1% | 1% |
| 22 | July | 7.1 | 7.3 | 2% | 1% | 14.2 | 13.8 | -3% | -1% | 21.2 | 20.1 | -6% | -3% | 16.1 | 14.0 | -13% | -7% | 3.8 | 0.9 | -76% | -21% | 6.5 | 6.0 | -8% | -2% |
| 22 | August | 6.0 | 6.0 | 1% | 1% | 12.0 | 11.6 | -3% | -3% | 18.0 | 17.0 | -6% | -6% | 13.7 | 12.0 | -12% | -12% | 3.4 | 0.6 | -82% | -82% | 5.6 | 5.1 | -8% | -8% |
| 22 | September | 25.6 | 26.5 | 3% | 3% | 54.5 | 56.7 | 4% | 4% | 68.3 | 70.0 | 2% | 2% | 51.1 | 54.9 | 7% | 7% | 15.7 | 10.7 | -32% | -32% | 28.4 | 28.7 | 1% | 1% |
| 22 | October | 9.8 | 9.9 | 0% | 0% | 20.2 | 20.0 | -1% | -1% | 27.8 | 27.1 | -3% | -3% | 21.9 | 21.5 | -2% | -2% | 4.9 | 1.5 | -69% | -69% | 9.6 | 9.4 | -2% | -2% |
| 22 | November | 6.1 | 6.3 | 3% | 3% | 12.6 | 13.8 | 9% | 9% | 18.4 | 19.4 | 5% | 5% | 13.6 | 12.5 | -8% | -8% | 3.9 | 0.9 | -77% | -77% | 6.3 | 7.0 | 12% | 12% |
| 22 | December | 5.4 | 5.3 | -1% | -1% | 11.1 | 11.3 | 2% | 2% | 16.6 | 16.4 | -1% | -1% | 12.3 | 10.9 | -12% | -12% | 3.4 | 0.7 | -80% | -80% | 5.4 | 5.5 | 3% | 3% |
| 23 | January | 4.7 | 4.7 | 0% | 0% | 9.8 | 10.1 | 3% | 3% | 14.8 | 14.9 | 1% | 1% | 11.2 | 9.9 | -11% | -11% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.0 | 4% | 4% |
| 23 | February | 4.0 | 4.2 | 6% | 6% | 8.2 | 8.8 | 6% | 6% | 12.6 | 13.4 | 6% | 6% | 9.5 | 9.1 | -4% | -4% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.2 | -2% | -2% |
| 23 | March | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.4 | 7% | 7% | 12.2 | 12.8 | 5% | 5% | 9.2 | 8.4 | -9% | -9% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.5 | 13% | 13% |
| 23 | April | 7.3 | 7.5 | 4% | 4% | 15.3 | 15.8 | 3% | 2% | 21.2 | 21.7 | 2% | 2% | 17.6 | 20.9 | 19% | 19% | 3.2 | 0.0 | -100% | -48% | 7.7 | 7.6 | -1% | -1% |
| 23 | May | 101.0 | 100.8 | 0% | 0% | 221.1 | 222.9 | 1% | 1% | 270.0 | 271.6 | 1% | 1% | 188.5 | 190.1 | 1% | 1% | 69.3 | 57.6 | -17% | -17% | 115.8 | 117.4 | 1% | 1% |
| 23 | June | 30.4 | 31.6 | 4% | 2% | 63.3 | 65.5 | 4% | 2% | 81.0 | 82.7 | 2% | 1% | 59.8 | 61.2 | 2% | 2% | 18.9 | 13.8 | -27% | -10% | 32.5 | 32.5 | 0% | 0% |
| 23 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 13.6 | -3% | -1% | 20.9 | 19.9 | -5% | -2% | 15.6 | 13.8 | -12% | -6% | 3.8 | 0.9 | -77% | -21% | 6.6 | 5.9 | -10% | -3% |
| 23 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.4 | -3% | -3% | 17.7 | 16.9 | -5% | -5% | 13.3 | 11.8 | -12% | -12% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.2 | -7% | -7% |
| 23 | September | 4.9 | 5.1 | 4% | 4% | 10.0 | 10.2 | 2% | 2% | 15.2 | 15.3 | 1% | 1% | 11.6 | 10.6 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.7 | -3% | -3% |
| 23 | October | 6.3 | 6.4 | 1% | 1% | 12.9 | 12.7 | -2% | -2% | 18.9 | 18.2 | -3% | -3% | 15.3 | 15.4 | 0% | 0% | 3.2 | 0.2 | -94% | -94% | 6.1 | 5.8 | -5% | -5% |
| 23 | November | 4.7 | 4.8 | 3% | 3% | 9.6 | 9.9 | 4% | 4% | 14.4 | 14.7 | 2% | 2% | 11.1 | 10.3 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.7 | 4.7 | 0% | 0% |
| 23 | December | 4.2 | 4.2 | -1% | -1% | 8.7 | 8.8 | 2% | 2% | 13.2 | 13.3 | 1% | 1% | 10.0 | 9.1 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.4 | 5% | 5% |
| 24 | January | 3.7 | 3.6 | -1% | -1% | 7.8 | 8.0 | 3% | 3% | 12.0 | 12.3 | 3% | 3% | 9.0 | 8.3 | -7% | -7% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.1 | 5% | 5% |
| 24 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.3 | 14% | 14% | 9.9 | 11.3 | 14% | 14% | 7.4 | 7.7 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 4% | 4% |
| 24 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.7 | 2% | 2% | 10.1 | 10.5 | 4% | 4% | 7.5 | 7.1 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.5 | 2% | 2% |
| 24 | April | 5.8 | 6.0 | 3% | 3% | 12.2 | 12.5 | 3% | 2% | 17.1 | 17.6 | 3% | 2% | 14.3 | 17.8 | 25% | 22% | 2.7 | 0.0 | -100% | -41% | 6.1 | 6.0 | -2% | -1% |
| 24 | May | 19.9 | 19.8 | -1% | 0% | 43.5 | 43.1 | -1% | 0% | 51.8 | 50.9 | -2% | -1% | 35.8 | 40.7 | 14% | 7% | 11.4 | 7.1 | -38% | -12% | 22.3 | 22.1 | -1% | 0% |
| 24 | June | 27.6 | 28.7 | 4% | 2% | 59.3 | 61.3 | 3% | 2% | 71.6 | 73.8 | 3% | 2% | 48.4 | 51.4 | 6% | 4% | 18.2 | 13.4 | -26% | -10% | 31.3 | 31.1 | 0% | 0% |
| 24 | July | 6.1 | 6.1 | 1% | 0% | 12.7 | 12.1 | -5% | -2% | 18.3 | 17.1 | -6% | -3% | 13.1 | 11.8 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.2 | 5.5 | -11% | -3% |
| 24 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.3 | -4% | -4% | 15.7 | 15.0 | -4% | -4% | 11.5 | 10.3 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.7 | -9% | -9% |
| 24 | September | 4.3 | 4.5 | 4% | 4% | 9.1 | 9.2 | 2% | 2% | 13.5 | 13.7 | 2% | 2% | 10.2 | 9.4 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.6 | 4.4 | -6% | -6% |
| 24 | October | 4.1 | 4.0 | -1% | -1% | 8.6 | 8.5 | -1% | -1% | 12.8 | 12.8 | 0% | 0% | 9.9 | 9.0 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -2% | -2% |
| 24 | November | 3.5 | 3.5 | 2% | 2% | 7.5 | 7.7 | 3% | 3% | 11.2 | 11.7 | 5% | 5% | 8.7 | 8.2 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 24 | December | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.5 | 6% | 6% | 10.5 | 11.3 | 7% | 7% | 8.1 | 7.6 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.0 | 11% | 11% |
| 25 | January | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.7 | 4% | 4% | 9.7 | 10.3 | 6% | 6% | 7.3 | 7.0 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 25 | February | 2.4 | 2.7 | 10% | 10% | 5.5 | 6.4 | 18% | 18% | 8.1 | 9.7 | 20% | 20% | 6.0 | 6.4 | 8% | 8% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 11% | 11% |
| 25 | March | 2.5 | 2.4 | -1% | -1% | 5.6 | 5.9 | 5% | 5% | 8.4 | 9.0 | 7% | 7% | 6.0 | 5.9 | -1% | -1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.2 | 7% | 7% |
| 25 | April | 30.1 | 31.0 | 3% | 3% | 66.9 | 69.5 | 4% | 4% | 78.9 | 82.2 | 4% | 4% | 53.5 | 62.8 | 18% | 18% | 19.8 | 14.4 | -27% | -27% | 36.1 | 36.5 | 1% | 1% |
| 25 | May | 38.8 | 38.8 | 0% | 0% | 83.7 | 84.1 | 0% | 0% | 101.9 | 100.9 | -1% | -1% | 70.2 | 71.7 | 2% | 2% | 24.9 | 19.3 | -22% | -15% | 43.0 | 43.3 | 1% | 1% |
| 25 | June | 20.2 | 21.0 | 4% | 2% | 42.3 | 43.4 | 3% | 1% | 53.2 | 53.8 | 1% | 0% | 40.0 | 41.8 | 5% | 2% | 12.0 | 8.0 | -34% | -8% | 21.7 | 21.3 | -2% | -1% |
| 25 | July | 6.2 | 6.2 | 1% | 0% | 12.8 | 12.2 | -4% | -1% | 18.7 | 17.7 | -5% | -2% | 13.9 | 12.5 | -11% | -5% | 3.6 | 0.8 | -77% | -20% | 6.2 | 5.5 | -11% | -3% |
| 25 | August | 5.2 | 5.2 | 0% | 0% | 10.8 | 10.3 | -4% | -4% | 16.0 | 15.3 | -4% | -4% | 12.1 | 10.7 | -12% | -12% | 3.2 | 0.6 | -81% | -81% | 5.2 | 4.7 | -9% | -9% |
| 25 | September | 4.8 | 5.0 | 4% | 4% | 9.8 | 9.9 | 1% | 1% | 14.6 | 14.8 | 1% | 1% | 11.4 | 10.6 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -5% | -5% |
| 25 | October | 7.3 | 7.3 | 0% | 0% | 15.2 | 15.0 | -2% | -2% | 21.3 | 20.7 | -2% | -2% | 17.3 | 18.4 | 7% | 7% | 3.4 | 0.2 | -94% | -94% | 7.3 | 7.0 | -4% | -4% |
| 25 | November | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.2 | 5% | 5% | 14.2 | 14.8 | 4% | 4% | 11.0 | 10.2 | -7% | -7% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.0 | 4% | 4% |
| 25 | December | 4.1 | 4.1 | 0% | 0% | 8.7 | 8.7 | 0% | 0% | 12.9 | 13.1 | 1% | 1% | 9.9 | 9.0 | -9% | -9% | 2.7 | 0.2 | -92% | -92% | 4.4 | 4.3 | -1% | -1% |
| 26 | January | 3.6 | 3.6 | -1% | -1% | 7.8 | 8.0 | 3% | 3% | 11.6 | 12.1 | 4% | 4% | 8.9 | 8.2 | -8% | -8% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.2 | 6% | 6% |
| 26 | February | 2.9 | 3.2 | 10% | 10% | 6.4 | 7.3 | 14% | 14% | 9.6 | 11.1 | 16% | 16% | 7.4 | 7.6 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 3% | 3% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | March | 3.0 | 2.9 | -1% | -1% | 6.6 | 7.1 | 8% | 8% | 9.8 | 10.6 | 8% | 8% | 7.3 | 7.0 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.9 | 13% | 13% |
| 26 | April | 10.3 | 10.6 | 3% | 3% | 22.7 | 23.2 | 2% | 2% | 29.0 | 29.4 | 2% | 2% | 22.0 | 28.2 | 29% | 29% | 5.2 | 1.7 | -67% | -52% | 11.9 | 11.6 | -2% | -2% |
| 26 | May | 28.5 | 28.5 | 0% | 0% | 62.0 | 61.8 | 0% | 0% | 73.0 | 73.0 | 0% | 0% | 49.1 | 52.0 | 6% | 4% | 18.4 | 13.5 | -27% | -13% | 31.9 | 31.8 | 0% | 0% |
| 26 | June | 15.4 | 16.0 | 4% | 1% | 32.5 | 33.1 | 2% | 1% | 40.3 | 40.4 | 0% | 0% | 29.0 | 30.5 | 5% | 2% | 9.1 | 5.3 | -42% | -8% | 16.7 | 16.2 | -3% | -1% |
| 26 | July | 5.9 | 5.9 | 0% | 0% | 12.4 | 11.9 | -5% | -1% | 17.8 | 16.8 | -6% | -2% | 12.9 | 11.5 | -11% | -5% | 3.7 | 0.9 | -76% | -20% | 6.1 | 5.5 | -10% | -3% |
| 26 | August | 5.0 | 5.0 | 0% | 0% | 10.5 | 10.0 | -4% | -4% | 15.2 | 14.7 | -4% | -4% | 11.3 | 10.1 | -11% | -11% | 3.3 | 0.5 | -85% | -85% | 5.1 | 4.7 | -9% | -9% |
| 26 | September | 5.9 | 6.1 | 4% | 4% | 12.3 | 12.4 | 1% | 1% | 17.3 | 17.5 | 1% | 1% | 13.8 | 14.3 | 4% | 4% | 3.4 | 0.4 | -88% | -88% | 6.2 | 5.8 | -6% | -6% |
| 26 | October | 8.5 | 8.5 | 0% | 0% | 18.1 | 17.9 | -1% | -1% | 24.2 | 23.8 | -2% | -2% | 19.5 | 20.8 | 7% | 7% | 4.1 | 0.6 | -85% | -85% | 8.9 | 8.8 | -2% | -2% |
| 26 | November | 4.9 | 5.1 | 3% | 3% | 10.5 | 11.1 | 5% | 5% | 14.9 | 15.7 | 6% | 6% | 11.2 | 10.5 | -6% | -6% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.6 | 3% | 3% |
| 26 | December | 4.4 | 4.4 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 13.5 | 14.1 | 4% | 4% | 10.1 | 9.1 | -10% | -10% | 3.1 | 0.5 | -84% | -84% | 4.9 | 5.2 | 7% | 7% |
| 27 | January | 3.9 | 3.9 | 0% | 0% | 8.4 | 8.7 | 3% | 3% | 12.1 | 12.7 | 5% | 5% | 9.1 | 8.3 | -9% | -9% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.5 | 4% | 4% |
| 27 | February | 3.3 | 3.5 | 6% | 6% | 7.1 | 7.8 | 10% | 10% | 10.4 | 11.6 | 12% | 12% | 7.8 | 7.8 | 0% | 0% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.1 | 5% | 5% |
| 27 | March | 3.2 | 3.1 | -1% | -1% | 7.1 | 7.6 | 8% | 8% | 10.3 | 11.2 | 9% | 9% | 7.5 | 7.1 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.2 | 14% | 14% |
| 27 | April | 17.8 | 18.2 | 3% | 3% | 39.2 | 40.5 | 3% | 3% | 47.0 | 48.1 | 2% | 2% | 33.0 | 40.2 | 22% | 22% | 10.9 | 6.4 | -41% | -41% | 20.9 | 21.0 | 0% | 0% |
| 27 | May | 71.2 | 71.3 | 0% | 0% | 155.5 | 157.1 | 1% | 1% | 188.9 | 190.2 | 1% | 1% | 129.5 | 130.4 | 1% | 1% | 48.7 | 39.9 | -18% | -18% | 81.2 | 82.5 | 2% | 2% |
| 27 | June | 57.5 | 59.5 | 3% | 3% | 122.4 | 127.3 | 4% | 4% | 153.4 | 158.9 | 4% | 4% | 112.3 | 114.6 | 2% | 2% | 38.3 | 30.8 | -20% | -15% | 64.6 | 65.1 | 1% | 1% |
| 27 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 13.7 | -2% | -1% | 20.9 | 20.0 | -5% | -2% | 15.6 | 13.8 | -12% | -6% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.1 | -8% | -2% |
| 27 | August | 5.8 | 5.7 | 0% | 0% | 11.7 | 11.3 | -3% | -3% | 17.6 | 16.7 | -5% | -5% | 13.3 | 11.7 | -12% | -12% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.1 | -7% | -7% |
| 27 | September | 4.9 | 5.0 | 3% | 3% | 9.9 | 10.0 | 1% | 1% | 15.0 | 14.9 | -1% | -1% | 11.6 | 10.6 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -6% | -6% |
| 27 | October | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.0 | -2% | -2% | 16.8 | 16.2 | -4% | -4% | 13.6 | 13.1 | -3% | -3% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.1 | -5% | -5% |
| 27 | November | 4.5 | 4.6 | 3% | 3% | 9.1 | 9.6 | 6% | 6% | 13.8 | 14.3 | 3% | 3% | 10.8 | 10.1 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.5 | 4.7 | 4% | 4% |
| 27 | December | 4.0 | 4.0 | 0% | 0% | 8.3 | 8.6 | 4% | 4% | 12.7 | 13.0 | 2% | 2% | 9.7 | 8.9 | -8% | -8% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |
| 28 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.0 | 6% | 6% | 11.6 | 12.1 | 5% | 5% | 8.7 | 8.1 | -7% | -7% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 12% | 12% |
| 28 | February | 2.9 | 3.1 | 10% | 10% | 6.2 | 7.2 | 17% | 17% | 9.6 | 11.1 | 16% | 16% | 7.2 | 7.6 | 5% | 5% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 28 | March | 2.9 | 2.8 | -1% | -1% | 6.4 | 6.5 | 2% | 2% | 9.7 | 10.1 | 4% | 4% | 7.4 | 6.9 | -6% | -6% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 28 | April | 3.4 | 3.5 | 4% | 2% | 7.3 | 7.5 | 2% | 1% | 10.8 | 11.3 | 4% | 2% | 8.3 | 9.2 | 11% | 6% | 2.1 | 0.0 | -100% | -30% | 3.8 | 3.7 | -4% | -1% |
| 28 | May | 36.5 | 36.4 | 0% | 0% | 80.7 | 81.0 | 0% | 0% | 96.0 | 96.3 | 0% | 0% | 64.8 | 71.6 | 10% | 10% | 23.5 | 17.4 | -26% | -16% | 42.1 | 42.4 | 1% | 1% |
| 28 | June | 74.7 | 77.2 | 3% | 3% | 161.7 | 168.3 | 4% | 4% | 199.1 | 206.4 | 4% | 4% | 142.4 | 147.2 | 3% | 3% | 51.3 | 42.3 | -17% | -17% | 86.5 | 87.6 | 1% | 1% |
| 28 | July | 6.6 | 6.7 | 2% | 1% | 13.0 | 12.6 | -3% | -1% | 19.5 | 18.5 | -5% | -2% | 14.5 | 13.1 | -10% | -5% | 3.3 | 0.6 | -82% | -20% | 5.9 | 5.4 | -9% | -3% |
| 28 | August | 5.6 | 5.6 | 1% | 1% | 11.1 | 10.8 | -3% | -3% | 16.8 | 16.0 | -5% | -5% | 12.9 | 11.4 | -11% | -11% | 3.1 | 0.5 | -84% | -84% | 5.1 | 4.7 | -8% | -8% |
| 28 | September | 5.3 | 5.4 | 3% | 3% | 10.5 | 10.6 | 1% | 1% | 15.8 | 15.7 | -1% | -1% | 12.5 | 11.9 | -5% | -5% | 3.0 | 0.3 | -90% | -90% | 5.0 | 4.8 | -5% | -5% |
| 28 | October | 9.0 | 9.0 | 0% | 0% | 18.5 | 18.2 | -1% | -1% | 25.5 | 24.6 | -4% | -4% | 21.3 | 23.0 | 8% | 8% | 3.7 | 0.2 | -95% | -95% | 8.8 | 8.5 | -3% | -3% |
| 28 | November | 5.2 | 5.4 | 3% | 3% | 10.6 | 10.9 | 3% | 3% | 15.5 | 15.8 | 2% | 2% | 12.0 | 11.2 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.1 | 0% | 0% |
| 28 | December | 4.6 | 4.7 | 1% | 1% | 9.6 | 10.0 | 5% | 5% | 14.2 | 14.6 | 3% | 3% | 10.8 | 9.8 | -10% | -10% | 2.9 | 0.4 | -86% | -86% | 4.7 | 5.0 | 8% | 8% |
| 29 | January | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.9 | 3% | 3% | 12.8 | 13.2 | 3% | 3% | 9.7 | 8.9 | -9% | -9% | 2.6 | 0.2 | -92% | -92% | 4.2 | 4.4 | 5% | 5% |
| 29 | February | 3.6 | 4.0 | 10% | 10% | 7.6 | 8.4 | 10% | 10% | 11.3 | 12.6 | 11% | 11% | 8.6 | 9.0 | 5% | 5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | -1% | -1% |
| 29 | March | 10.1 | 10.0 | 0% | 0% | 21.8 | 21.6 | -1% | -1% | 28.4 | 27.9 | -2% | -2% | 22.2 | 26.3 | 18% | 18% | 4.8 | 1.2 | -75% | -75% | 10.9 | 10.7 | -1% | -1% |
| 29 | April | 28.5 | 29.5 | 3% | 3% | 61.7 | 63.9 | 3% | 3% | 73.4 | 75.8 | 3% | 3% | 49.7 | 54.2 | 9% | 9% | 19.1 | 13.9 | -27% | -27% | 32.7 | 32.8 | 0% | 0% |
| 29 | May | 17.1 | 17.2 | 1% | 0% | 36.2 | 35.8 | -1% | 0% | 45.4 | 44.3 | -2% | -1% | 32.7 | 33.1 | 1% | 1% | 10.1 | 6.1 | -39% | -11% | 18.1 | 17.6 | -3% | -1% |
| 29 | June | 7.8 | 8.1 | 4% | 1% | 16.7 | 16.8 | 1% | 0% | 23.0 | 22.8 | -1% | 0% | 17.5 | 17.6 | 1% | 0% | 4.6 | 1.3 | -72% | -7% | 8.5 | 8.0 | -5% | -1% |
| 29 | July | 6.1 | 6.0 | 0% | 0% | 12.7 | 12.2 | -4% | -1% | 18.2 | 17.4 | -4% | -2% | 13.4 | 12.1 | -10% | -4% | 3.9 | 1.0 | -75% | -21% | 6.3 | 5.8 | -8% | -2% |
| 29 | August | 5.1 | 5.1 | 0% | 0% | 10.8 | 10.4 | -3% | -3% | 15.7 | 15.3 | -2% | -2% | 11.8 | 10.7 | -10% | -10% | 3.5 | 0.5 | -86% | -86% | 5.4 | 4.9 | -8% | -8% |
| 29 | September | 4.4 | 4.5 | 3% | 3% | 9.3 | 9.4 | 1% | 1% | 13.6 | 14.0 | 3% | 3% | 10.4 | 9.7 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -6% | -6% |
| 29 | October | 8.8 | 8.8 | 0% | 0% | 18.7 | 18.4 | -1% | -1% | 24.9 | 24.6 | -1% | -1% | 20.1 | 22.5 | 12% | 12% | 4.1 | 0.5 | -88% | -88% | 9.2 | 9.0 | -2% | -2% |
| 29 | November | 5.1 | 5.3 | 4% | 4% | 10.8 | 11.4 | 5% | 5% | 15.3 | 16.1 | 5% | 5% | 11.6 | 11.1 | -4% | -4% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.7 | 4% | 4% |
| 29 | December | 4.6 | 4.5 | -1% | -1% | 9.8 | 10.0 | 1% | 1% | 13.9 | 14.3 | 3% | 3% | 10.4 | 9.5 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 5.0 | 5.1 | 2% | 2% |
| 30 | January | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.9 | 3% | 3% | 12.4 | 13.0 | 5% | 5% | 9.3 | 8.6 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.7 | 5% | 5% |
| 30 | February | 3.3 | 3.6 | 11% | 11% | 7.1 | 8.0 | 12% | 12% | 10.3 | 11.8 | 15% | 15% | 7.7 | 8.0 | 5% | 5% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | 1% | 1% |
| 30 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 10.5 | 11.1 | 6% | 6% | 7.7 | 7.4 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 30 | April | 14.5 | 14.9 | 3% | 3% | 31.8 | 32.8 | 3% | 3% | 38.8 | 39.9 | 3% | 3% | 27.8 | 34.7 | 25% | 25% | 8.4 | 4.2 | -50% | -50% | 16.8 | 16.9 | 1% | 1% |
| 30 | May | 33.3 | 33.4 | 0% | 0% | 72.0 | 72.3 | 0% | 0% | 86.1 | 86.3 | 0% | 0% | 56.9 | 59.0 | 4% | 3% | 21.8 | 16.4 | -25% | -14% | 37.0 | 37.1 | 0% | 0% |
| 30 | June | 31.0 | 32.1 | 3% | 2% | 66.5 | 68.6 | 3% | 2% | 82.2 | 83.5 | 2% | 1% | 58.4 | 60.6 | 4% | 3% | 20.6 | 15.4 | -25% | -11% | 35.1 | 34.9 | -1% | 0% |
| 30 | July | 6.5 | 6.6 | 1% | 0% | 13.7 | 13.2 | -4% | -1% | 19.6 | 18.7 | -5% | -2% | 14.5 | 13.0 | -10% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.0 | -9% | -3% |
| 30 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.0 | -3% | -3% | 16.7 | 16.2 | -3% | -3% | 12.5 | 11.2 | -11% | -11% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.1 | -9% | -9% |
| 30 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 9.8 | 1% | 1% | 14.4 | 14.6 | 1% | 1% | 11.0 | 10.2 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.6 | -6% | -6% |

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| 30 | October | 5.0 | 5.0 | 0% | 0% | 10.3 | 10.1 | -2% | -2% | 15.2 | 15.0 | -1% | -1% | 12.0 | 11.4 | -5% | -5% | 3.0 | 0.2 | -93% | -93% | 5.0 | 4.8 | -4% | -4% |
| 30 | November | 4.2 | 4.3 | 3% | 3% | 8.7 | 8.9 | 3% | 3% | 12.9 | 13.4 | 4% | 4% | 10.1 | 9.6 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.3 | -3% | -3% |
| 30 | December | 3.7 | 3.7 | -1% | -1% | 8.0 | 8.1 | 1% | 1% | 11.9 | 12.2 | 3% | 3% | 9.2 | 8.5 | -7% | -7% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.0 | 1% | 1% |
| 31 | January | 3.3 | 3.3 | 0% | 0% | 7.2 | 8.0 | 11% | 11% | 10.8 | 12.0 | 11% | 11% | 8.3 | 7.9 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.5 | 21% | 21% |
| 31 | February | 2.8 | 3.0 | 7% | 7% | 6.3 | 7.4 | 18% | 18% | 9.3 | 11.1 | 19% | 19% | 7.1 | 7.3 | 3% | 3% | 2.0 | 0.0 | -100% | -100% | 3.5 | 4.1 | 18% | 18% |
| 31 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.5 | 4% | 4% | 9.3 | 9.9 | 7% | 7% | 6.8 | 6.7 | -2% | -2% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 7% | 7% |
| 31 | April | 24.2 | 24.9 | 3% | 3% | 53.5 | 55.5 | 4% | 4% | 63.2 | 65.9 | 4% | 4% | 44.1 | 52.9 | 20% | 20% | 15.3 | 10.2 | -33% | -33% | 28.6 | 29.0 | 1% | 1% |
| 31 | May | 73.5 | 73.6 | 0% | 0% | 160.0 | 161.4 | 1% | 1% | 195.6 | 196.3 | 0% | 0% | 136.4 | 137.2 | 1% | 1% | 49.5 | 40.8 | -18% | -18% | 83.3 | 84.4 | 1% | 1% |
| 31 | June | 41.6 | 43.1 | 4% | 3% | 87.9 | 91.3 | 4% | 3% | 110.8 | 114.3 | 3% | 3% | 81.9 | 83.8 | 2% | 2% | 26.8 | 20.9 | -22% | -12% | 45.9 | 46.2 | 1% | 0% |
| 31 | July | 6.8 | 6.8 | 1% | 1% | 13.7 | 13.3 | -4% | -1% | 20.4 | 19.4 | -5% | -2% | 15.3 | 13.6 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.8 | -10% | -3% |
| 31 | August | 5.7 | 5.7 | -1% | -1% | 11.6 | 11.2 | -3% | -3% | 17.4 | 16.5 | -5% | -5% | 13.1 | 11.6 | -12% | -12% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.0 | -8% | -8% |
| 31 | September | 4.8 | 4.9 | 3% | 3% | 9.7 | 9.9 | 2% | 2% | 14.8 | 14.8 | 0% | 0% | 11.5 | 10.5 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -3% | -3% |
| 31 | October | 4.4 | 4.4 | -1% | -1% | 8.9 | 8.8 | -1% | -1% | 13.8 | 13.5 | -2% | -2% | 10.7 | 9.6 | -11% | -11% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -3% | -3% |
| 31 | November | 3.8 | 3.9 | 2% | 2% | 7.8 | 8.1 | 3% | 3% | 12.2 | 12.5 | 3% | 3% | 9.5 | 8.9 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 31 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.5 | 2% | 2% | 11.5 | 11.7 | 1% | 1% | 8.8 | 8.1 | -8% | -8% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 32 | January | 3.1 | 3.1 | -1% | -1% | 6.7 | 7.0 | 6% | 6% | 10.5 | 11.0 | 5% | 5% | 8.0 | 7.5 | -6% | -6% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 32 | February | 2.5 | 2.7 | 9% | 9% | 5.5 | 6.7 | 20% | 20% | 8.7 | 10.4 | 20% | 20% | 6.5 | 6.9 | 5% | 5% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.7 | 17% | 17% |
| 32 | March | 2.5 | 2.5 | 0% | 0% | 5.7 | 5.9 | 3% | 3% | 8.9 | 9.3 | 5% | 5% | 6.5 | 6.4 | -3% | -3% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.1 | 3% | 3% |
| 32 | April | 8.2 | 8.4 | 3% | 3% | 17.8 | 18.4 | 3% | 3% | 23.8 | 24.4 | 3% | 3% | 19.3 | 25.7 | 33% | 33% | 3.4 | 0.3 | -91% | -45% | 9.2 | 9.1 | 0% | 0% |
| 32 | May | 41.7 | 41.7 | 0% | 0% | 91.4 | 91.8 | 0% | 0% | 108.3 | 108.5 | 0% | 0% | 71.4 | 74.9 | 5% | 5% | 27.8 | 21.8 | -21% | -16% | 47.6 | 47.9 | 1% | 1% |
| 32 | June | 39.3 | 40.7 | 3% | 3% | 84.6 | 87.7 | 4% | 3% | 104.2 | 107.1 | 3% | 2% | 75.3 | 78.2 | 4% | 4% | 26.2 | 20.4 | -22% | -12% | 44.8 | 45.1 | 1% | 0% |
| 32 | July | 6.3 | 6.4 | 2% | 1% | 12.9 | 12.4 | -3% | -1% | 19.0 | 18.1 | -5% | -2% | 14.1 | 12.6 | -10% | -5% | 3.5 | 0.8 | -77% | -19% | 6.1 | 5.5 | -10% | -3% |
| 32 | August | 5.4 | 5.3 | -1% | -1% | 10.9 | 10.4 | -4% | -4% | 16.3 | 15.6 | -5% | -5% | 12.4 | 11.0 | -11% | -11% | 3.2 | 0.6 | -81% | -81% | 5.1 | 4.7 | -9% | -9% |
| 32 | September | 4.5 | 4.7 | 4% | 4% | 9.2 | 9.3 | 1% | 1% | 14.0 | 14.0 | 0% | 0% | 10.8 | 9.9 | -8% | -8% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.3 | -6% | -6% |
| 32 | October | 4.6 | 4.6 | 0% | 0% | 9.3 | 9.1 | -2% | -2% | 14.1 | 13.8 | -2% | -2% | 11.2 | 10.3 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.2 | -4% | -4% |
| 32 | November | 3.9 | 4.0 | 2% | 2% | 8.0 | 8.6 | 8% | 8% | 12.2 | 13.0 | 7% | 7% | 9.6 | 9.1 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.3 | 8% | 8% |
| 32 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.8 | 6% | 6% | 11.4 | 12.0 | 5% | 5% | 8.8 | 8.2 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 10% | 10% |
| 33 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 7.1 | 5% | 5% | 10.3 | 10.9 | 6% | 6% | 8.0 | 7.5 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.8 | 9% | 9% |
| 33 | February | 2.5 | 2.8 | 9% | 9% | 5.6 | 6.7 | 19% | 19% | 8.6 | 10.2 | 20% | 20% | 6.5 | 7.0 | 7% | 7% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.6 | 13% | 13% |
| 33 | March | 2.6 | 2.5 | 0% | 0% | 5.8 | 6.5 | 12% | 12% | 8.8 | 9.8 | 12% | 12% | 6.5 | 6.4 | -2% | -2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.7 | 21% | 21% |
| 33 | April | 29.3 | 30.2 | 3% | 3% | 65.2 | 67.8 | 4% | 4% | 77.1 | 80.4 | 4% | 4% | 53.0 | 62.3 | 18% | 18% | 19.1 | 13.8 | -28% | -28% | 35.2 | 35.7 | 1% | 1% |
| 33 | May | 72.7 | 72.7 | 0% | 0% | 158.0 | 159.4 | 1% | 1% | 193.5 | 194.3 | 0% | 0% | 136.5 | 137.2 | 1% | 1% | 48.6 | 40.0 | -18% | -18% | 82.1 | 83.3 | 1% | 1% |
| 33 | June | 91.8 | 94.9 | 3% | 3% | 195.9 | 204.2 | 4% | 4% | 245.8 | 254.9 | 4% | 4% | 181.2 | 183.6 | 1% | 1% | 61.8 | 51.4 | -17% | -17% | 103.7 | 105.2 | 1% | 1% |
| 33 | July | 6.9 | 7.1 | 2% | 1% | 13.7 | 13.5 | -2% | -1% | 20.9 | 19.8 | -5% | -2% | 15.9 | 13.9 | -12% | -6% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.8 | -7% | -2% |
| 33 | August | 5.7 | 5.7 | 1% | 1% | 11.4 | 11.1 | -3% | -3% | 17.4 | 16.5 | -5% | -5% | 13.4 | 11.8 | -12% | -12% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.9 | -7% | -7% |
| 33 | September | 4.8 | 5.0 | 4% | 4% | 9.6 | 9.8 | 2% | 2% | 14.8 | 14.8 | -1% | -1% | 11.6 | 10.6 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.4 | -5% | -5% |
| 33 | October | 6.8 | 6.8 | 0% | 0% | 13.8 | 13.5 | -2% | -2% | 20.1 | 19.3 | -4% | -4% | 16.7 | 17.2 | 3% | 3% | 3.2 | 0.2 | -94% | -94% | 6.5 | 6.2 | -5% | -5% |
| 33 | November | 4.7 | 4.8 | 4% | 4% | 9.4 | 10.0 | 7% | 7% | 14.3 | 14.8 | 4% | 4% | 11.1 | 10.3 | -7% | -7% | 2.7 | 0.2 | -92% | -92% | 4.6 | 4.8 | 6% | 6% |
| 33 | December | 4.2 | 4.1 | -1% | -1% | 8.5 | 8.6 | 1% | 1% | 13.2 | 13.1 | -1% | -1% | 10.0 | 9.1 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | 1% | 1% |
| 34 | January | 3.7 | 3.6 | -1% | -1% | 7.6 | 7.9 | 3% | 3% | 11.9 | 12.1 | 2% | 2% | 9.0 | 8.3 | -7% | -7% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 6% | 6% |
| 34 | February | 2.9 | 3.2 | 10% | 10% | 6.3 | 7.4 | 18% | 18% | 9.8 | 11.4 | 16% | 16% | 7.4 | 7.7 | 5% | 5% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.9 | 11% | 11% |
| 34 | March | 2.9 | 2.9 | -1% | -1% | 6.4 | 6.6 | 4% | 4% | 9.9 | 10.3 | 4% | 4% | 7.4 | 7.1 | -4% | -4% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 6% | 6% |
| 34 | April | 14.2 | 14.6 | 3% | 3% | 31.6 | 32.3 | 2% | 2% | 39.3 | 39.7 | 1% | 1% | 29.1 | 36.5 | 26% | 26% | 8.0 | 4.1 | -49% | -49% | 16.8 | 16.5 | -2% | -2% |
| 34 | May | 32.5 | 32.6 | 0% | 0% | 70.2 | 70.3 | 0% | 0% | 84.2 | 84.0 | 0% | 0% | 56.5 | 58.7 | 4% | 3% | 21.0 | 15.9 | -24% | -14% | 36.0 | 36.0 | 0% | 0% |
| 34 | June | 15.8 | 16.4 | 4% | 1% | 33.2 | 34.1 | 2% | 1% | 41.9 | 42.2 | 1% | 0% | 30.8 | 32.3 | 5% | 2% | 9.3 | 5.4 | -42% | -8% | 17.0 | 16.6 | -2% | -1% |
| 34 | July | 6.0 | 6.0 | 0% | 0% | 12.4 | 11.9 | -4% | -1% | 18.2 | 17.2 | -5% | -2% | 13.3 | 12.0 | -10% | -4% | 3.6 | 0.9 | -75% | -19% | 6.0 | 5.5 | -9% | -3% |
| 34 | August | 5.0 | 5.0 | -1% | -1% | 10.5 | 10.0 | -4% | -4% | 15.6 | 14.9 | -4% | -4% | 11.6 | 10.4 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.1 | 4.6 | -9% | -9% |
| 34 | September | 4.6 | 4.7 | 4% | 4% | 9.5 | 9.6 | 2% | 2% | 14.1 | 14.5 | 3% | 3% | 10.9 | 10.3 | -5% | -5% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.5 | -4% | -4% |
| 34 | October | 7.2 | 7.2 | 0% | 0% | 15.1 | 14.8 | -2% | -2% | 21.0 | 20.5 | -2% | -2% | 17.0 | 18.5 | 8% | 8% | 3.4 | 0.2 | -94% | -94% | 7.3 | 7.0 | -4% | -4% |
| 34 | November | 4.5 | 4.7 | 3% | 3% | 9.6 | 9.8 | 3% | 3% | 13.9 | 14.4 | 4% | 4% | 10.6 | 10.1 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.9 | 4.8 | -1% | -1% |
| 34 | December | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.9 | 3% | 3% | 12.6 | 13.1 | 4% | 4% | 9.6 | 8.8 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.6 | 4% | 4% |
| 35 | January | 3.5 | 3.5 | -1% | -1% | 7.7 | 8.1 | 5% | 5% | 11.3 | 12.1 | 7% | 7% | 8.7 | 8.1 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.3 | 9% | 9% |
| 35 | February | 3.0 | 3.2 | 7% | 7% | 6.6 | 7.9 | 20% | 20% | 9.8 | 11.6 | 19% | 19% | 7.3 | 7.5 | 3% | 3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.5 | 22% | 22% |
| 35 | March | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.7 | 3% | 3% | 15.9 | 16.4 | 3% | 3% | 13.1 | 15.2 | 16% | 16% | 2.7 | 0.0 | -100% | -100% | 5.4 | 5.8 | 7% | 7% |
| 35 | April | 39.1 | 40.4 | 3% | 3% | 86.6 | 90.0 | 4% | 4% | 102.7 | 106.6 | 4% | 4% | 67.6 | 75.1 | 11% | 11% | 27.0 | 20.5 | -24% | -24% | 46.9 | 47.4 | 1% | 1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | May | 67.3 | 67.3 | 0% | 0% | 145.6 | 146.6 | 1% | 1% | 179.3 | 179.9 | 0% | 0% | 128.4 | 128.3 | 0% | 0% | 44.9 | 36.6 | -18% | -18% | 75.4 | 76.2 | 1% | 1% |
| 35 | June | 32.6 | 33.7 | 4% | 2% | 68.4 | 70.6 | 3% | 2% | 87.0 | 89.2 | 2% | 2% | 64.6 | 66.0 | 2% | 2% | 20.7 | 15.4 | -25% | -11% | 35.4 | 35.2 | -1% | 0% |
| 35 | July | 6.9 | 7.0 | 1% | 0% | 14.3 | 13.7 | -4% | -1% | 21.0 | 20.0 | -5% | -2% | 15.6 | 14.0 | -10% | -5% | 4.0 | 1.0 | -75% | -21% | 6.8 | 6.2 | -10% | -3% |
| 35 | August | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.5 | -3% | -3% | 17.7 | 16.9 | -5% | -5% | 13.3 | 11.8 | -11% | -11% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.2 | -9% | -9% |
| 35 | September | 28.5 | 29.4 | 3% | 3% | 61.2 | 63.6 | 4% | 4% | 76.4 | 78.7 | 3% | 3% | 56.1 | 60.3 | 7% | 7% | 18.1 | 12.8 | -29% | -29% | 32.2 | 32.6 | 1% | 1% |
| 35 | October | 13.6 | 13.7 | 0% | 0% | 28.3 | 28.2 | 0% | 0% | 37.2 | 36.8 | -1% | -1% | 28.6 | 28.5 | 0% | 0% | 7.3 | 3.6 | -51% | -51% | 13.8 | 13.7 | 0% | 0% |
| 35 | November | 6.1 | 6.3 | 3% | 3% | 12.7 | 13.3 | 5% | 5% | 18.8 | 19.2 | 2% | 2% | 13.7 | 12.7 | -7% | -7% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.6 | 2% | 2% |
| 35 | December | 5.4 | 5.4 | 0% | 0% | 11.2 | 11.3 | 1% | 1% | 16.7 | 16.6 | -1% | -1% | 12.3 | 11.0 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.6 | 2% | 2% |
| 36 | January | 4.7 | 4.7 | 0% | 0% | 9.9 | 10.1 | 3% | 3% | 14.9 | 15.1 | 1% | 1% | 11.2 | 10.1 | -10% | -10% | 3.1 | 0.4 | -87% | -87% | 4.8 | 5.1 | 5% | 5% |
| 36 | February | 3.8 | 4.2 | 10% | 10% | 8.0 | 9.0 | 13% | 13% | 12.2 | 13.7 | 13% | 13% | 9.3 | 9.3 | 0% | 0% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.5 | 4% | 4% |
| 36 | March | 4.2 | 4.2 | 0% | 0% | 8.8 | 8.7 | -1% | -1% | 13.4 | 13.4 | 0% | 0% | 10.4 | 9.8 | -5% | -5% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.2 | -3% | -3% |
| 36 | April | 17.8 | 18.2 | 3% | 3% | 39.0 | 40.1 | 3% | 3% | 47.7 | 48.7 | 2% | 2% | 35.2 | 41.4 | 18% | 18% | 10.7 | 6.2 | -42% | -42% | 20.7 | 20.6 | -1% | -1% |
| 36 | May | 60.4 | 60.5 | 0% | 0% | 131.6 | 132.9 | 1% | 1% | 161.9 | 162.5 | 0% | 0% | 112.2 | 112.8 | 1% | 1% | 41.0 | 33.1 | -19% | -19% | 68.4 | 69.5 | 2% | 2% |
| 36 | June | 37.8 | 39.1 | 4% | 3% | 80.2 | 83.3 | 4% | 3% | 101.4 | 105.0 | 4% | 3% | 74.5 | 76.6 | 3% | 3% | 24.7 | 18.8 | -24% | -12% | 42.0 | 42.3 | 1% | 0% |
| 36 | July | 7.0 | 7.1 | 1% | 1% | 14.4 | 14.0 | -3% | -1% | 21.3 | 20.5 | -4% | -2% | 15.8 | 14.2 | -10% | -5% | 4.0 | 1.0 | -75% | -22% | 6.9 | 6.3 | -9% | -3% |
| 36 | August | 5.9 | 5.9 | 0% | 0% | 12.2 | 11.9 | -2% | -2% | 18.1 | 17.5 | -3% | -3% | 13.5 | 12.1 | -10% | -10% | 3.6 | 0.7 | -81% | -81% | 5.9 | 5.6 | -5% | -5% |
| 36 | September | 5.8 | 6.0 | 3% | 3% | 11.9 | 12.0 | 1% | 1% | 17.5 | 17.5 | 0% | 0% | 13.6 | 13.3 | -3% | -3% | 3.4 | 0.5 | -85% | -85% | 5.9 | 5.6 | -5% | -5% |
| 36 | October | 7.1 | 7.1 | 0% | 0% | 14.6 | 14.3 | -2% | -2% | 20.7 | 20.1 | -3% | -3% | 16.5 | 16.7 | 1% | 1% | 3.6 | 0.4 | -89% | -89% | 6.9 | 6.6 | -4% | -4% |
| 36 | November | 5.2 | 5.3 | 3% | 3% | 10.6 | 11.2 | 5% | 5% | 15.6 | 16.2 | 4% | 4% | 12.1 | 11.5 | -5% | -5% | 3.1 | 0.4 | -87% | -87% | 5.3 | 5.5 | 4% | 4% |
| 36 | December | 4.6 | 4.6 | 0% | 0% | 9.6 | 10.1 | 5% | 5% | 14.2 | 14.8 | 4% | 4% | 10.9 | 10.1 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.7 | 5.1 | 10% | 10% |
| 37 | January | 4.1 | 4.0 | -1% | -1% | 8.6 | 8.7 | 2% | 2% | 12.8 | 13.2 | 3% | 3% | 9.8 | 9.2 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 4% | 4% |
| 37 | February | 3.3 | 3.6 | 10% | 10% | 7.0 | 8.1 | 14% | 14% | 10.6 | 12.3 | 16% | 16% | 8.1 | 8.5 | 6% | 6% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |
| 37 | March | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.3 | 1% | 1% | 10.8 | 11.2 | 4% | 4% | 8.1 | 7.9 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.7 | 0% | 0% |
| 37 | April | 29.7 | 30.6 | 3% | 3% | 65.5 | 68.1 | 4% | 4% | 78.2 | 81.2 | 4% | 4% | 53.7 | 62.1 | 16% | 16% | 19.5 | 13.9 | -29% | -29% | 35.2 | 35.6 | 1% | 1% |
| 37 | May | 59.6 | 59.6 | 0% | 0% | 129.4 | 130.7 | 1% | 1% | 159.1 | 159.5 | 0% | 0% | 112.0 | 112.7 | 1% | 1% | 39.7 | 32.1 | -19% | -19% | 67.1 | 68.2 | 2% | 2% |
| 37 | June | 37.5 | 38.8 | 4% | 3% | 79.2 | 82.1 | 4% | 3% | 100.0 | 103.3 | 3% | 2% | 73.8 | 75.8 | 3% | 2% | 24.1 | 18.4 | -24% | -12% | 41.3 | 41.5 | 0% | 0% |
| 37 | July | 6.9 | 7.0 | 1% | 1% | 14.1 | 13.6 | -4% | -1% | 20.9 | 19.9 | -5% | -2% | 15.5 | 14.0 | -10% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.0 | -10% | -3% |
| 37 | August | 5.8 | 5.7 | 0% | 0% | 11.8 | 11.4 | -4% | -4% | 17.7 | 16.9 | -5% | -5% | 13.2 | 11.9 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.2 | -8% | -8% |
| 37 | September | 4.9 | 5.0 | 2% | 2% | 10.0 | 10.1 | 1% | 1% | 15.2 | 15.1 | 0% | 0% | 11.6 | 10.8 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.7 | -5% | -5% |
| 37 | October | 4.9 | 4.9 | 1% | 1% | 9.9 | 9.8 | -1% | -1% | 15.1 | 14.7 | -2% | -2% | 11.8 | 10.9 | -8% | -8% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.5 | -4% | -4% |
| 37 | November | 4.2 | 4.3 | 2% | 2% | 8.6 | 9.4 | 10% | 10% | 13.1 | 14.1 | 7% | 7% | 10.2 | 9.7 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.3 | 4.8 | 12% | 12% |
| 37 | December | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.6 | 8% | 8% | 12.3 | 13.0 | 6% | 6% | 9.4 | 8.8 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.5 | 15% | 15% |
| 38 | January | 3.4 | 3.4 | 0% | 0% | 7.2 | 7.9 | 9% | 9% | 11.2 | 12.0 | 8% | 8% | 8.5 | 8.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 16% | 16% |
| 38 | February | 2.7 | 3.0 | 11% | 11% | 6.0 | 6.9 | 15% | 15% | 9.3 | 10.8 | 16% | 16% | 7.0 | 7.5 | 8% | 8% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 7% | 7% |
| 38 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.5 | 5% | 5% | 9.5 | 10.0 | 6% | 6% | 7.0 | 6.9 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 8% | 8% |
| 38 | April | 56.9 | 58.7 | 3% | 3% | 126.1 | 131.6 | 4% | 4% | 151.2 | 157.1 | 4% | 4% | 103.0 | 113.3 | 10% | 10% | 39.6 | 31.5 | -20% | -20% | 68.4 | 69.8 | 2% | 2% |
| 38 | May | 56.9 | 57.1 | 0% | 0% | 121.8 | 122.9 | 1% | 1% | 151.2 | 152.2 | 1% | 1% | 110.2 | 110.8 | 0% | 0% | 36.5 | 29.4 | -19% | -19% | 62.3 | 63.2 | 1% | 1% |
| 38 | June | 66.6 | 68.8 | 3% | 3% | 141.7 | 147.5 | 4% | 4% | 178.8 | 184.7 | 3% | 3% | 131.7 | 134.0 | 2% | 2% | 44.2 | 36.1 | -18% | -17% | 74.7 | 75.6 | 1% | 1% |
| 38 | July | 11.6 | 11.8 | 1% | 1% | 23.4 | 23.0 | -2% | -1% | 32.5 | 31.2 | -4% | -3% | 26.0 | 25.2 | -3% | -3% | 5.5 | 2.0 | -64% | -25% | 11.0 | 10.4 | -5% | -3% |
| 38 | August | 6.6 | 6.6 | 0% | 0% | 13.5 | 13.1 | -3% | -3% | 20.0 | 19.0 | -5% | -5% | 15.0 | 13.5 | -10% | -10% | 3.9 | 0.9 | -77% | -77% | 6.4 | 5.9 | -8% | -8% |
| 38 | September | 5.5 | 5.6 | 3% | 3% | 11.1 | 11.2 | 1% | 1% | 16.7 | 16.5 | -1% | -1% | 12.6 | 11.7 | -7% | -7% | 3.4 | 0.7 | -80% | -80% | 5.5 | 5.1 | -6% | -6% |
| 38 | October | 9.1 | 9.0 | 0% | 0% | 19.0 | 18.8 | -1% | -1% | 26.3 | 25.3 | -3% | -3% | 21.7 | 23.0 | 6% | 6% | 4.2 | 0.7 | -83% | -83% | 9.2 | 9.0 | -2% | -2% |
| 38 | November | 5.4 | 5.5 | 3% | 3% | 11.1 | 11.5 | 4% | 4% | 16.4 | 16.7 | 2% | 2% | 12.3 | 11.4 | -7% | -7% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.6 | 1% | 1% |
| 38 | December | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.1 | 0% | 0% | 15.0 | 14.9 | -1% | -1% | 11.2 | 10.2 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 4.9 | 4.9 | -1% | -1% |
| 39 | January | 4.3 | 4.3 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.5 | 13.5 | 0% | 0% | 10.1 | 9.3 | -8% | -8% | 2.8 | 0.2 | -93% | -93% | 4.4 | 4.3 | -1% | -1% |
| 39 | February | 3.5 | 3.7 | 6% | 6% | 7.5 | 8.2 | 10% | 10% | 11.5 | 12.6 | 10% | 10% | 8.5 | 8.5 | 0% | 0% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.2 | 4% | 4% |
| 39 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.4 | 2% | 2% | 11.2 | 11.5 | 3% | 3% | 8.3 | 7.9 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.8 | 3% | 3% |
| 39 | April | 9.9 | 10.2 | 3% | 3% | 21.6 | 22.1 | 2% | 2% | 28.1 | 28.6 | 2% | 2% | 21.6 | 27.2 | 26% | 26% | 4.9 | 1.3 | -74% | -54% | 11.1 | 11.0 | -2% | -2% |
| 39 | May | 17.2 | 17.2 | 0% | 0% | 37.0 | 36.6 | -1% | 0% | 44.6 | 43.7 | -2% | -1% | 31.2 | 33.8 | 8% | 4% | 10.3 | 6.3 | -39% | -11% | 18.7 | 18.4 | -2% | -1% |
| 39 | June | 26.5 | 27.5 | 4% | 2% | 57.0 | 58.9 | 3% | 2% | 69.5 | 71.8 | 3% | 2% | 46.8 | 49.7 | 6% | 4% | 17.7 | 12.9 | -27% | -10% | 30.0 | 30.0 | 0% | 0% |
| 39 | July | 6.1 | 6.2 | 1% | 0% | 12.9 | 12.5 | -4% | -1% | 18.7 | 17.8 | -5% | -2% | 13.3 | 12.1 | -9% | -4% | 3.8 | 0.9 | -76% | -21% | 6.3 | 5.8 | -9% | -3% |
| 39 | August | 5.2 | 5.2 | 1% | 1% | 10.9 | 10.6 | -3% | -3% | 15.9 | 15.5 | -3% | -3% | 11.6 | 10.5 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.3 | 4.9 | -8% | -8% |
| 39 | September | 4.5 | 4.7 | 4% | 4% | 9.5 | 9.7 | 2% | 2% | 14.0 | 14.3 | 2% | 2% | 10.6 | 10.1 | -5% | -5% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -4% | -4% |
| 39 | October | 4.3 | 4.3 | 0% | 0% | 9.1 | 8.9 | -2% | -2% | 13.4 | 13.4 | 0% | 0% | 10.6 | 9.7 | -9% | -9% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.3 | -4% | -4% |
| 39 | November | 3.6 | 3.7 | 3% | 3% | 7.8 | 8.4 | 7% | 7% | 11.6 | 12.6 | 8% | 8% | 9.0 | 8.7 | -3% | -3% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.3 | 6% | 6% |

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| 39 | December | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.4 | 1% | 1% | 10.9 | 11.3 | 4% | 4% | 8.4 | 8.1 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 1% | 1% |
| 40 | January | 3.0 | 3.0 | 0% | 0% | 6.8 | 6.9 | 2% | 2% | 10.1 | 10.6 | 5% | 5% | 7.5 | 7.4 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 40 | February | 2.5 | 2.8 | 10% | 10% | 5.7 | 6.8 | 20% | 20% | 8.4 | 10.2 | 21% | 21% | 6.2 | 6.9 | 11% | 11% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 40 | March | 2.6 | 2.6 | 0% | 0% | 5.9 | 6.3 | 7% | 7% | 8.7 | 9.5 | 9% | 9% | 6.2 | 6.3 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.5 | 11% | 11% |
| 40 | April | 4.0 | 4.1 | 3% | 2% | 8.6 | 8.8 | 3% | 1% | 12.1 | 12.7 | 5% | 2% | 9.6 | 12.0 | 25% | 15% | 2.2 | 0.0 | -100% | -33% | 4.4 | 4.3 | -1% | 0% |
| 40 | May | 72.9 | 72.8 | 0% | 0% | 161.3 | 162.9 | 1% | 1% | 193.0 | 194.4 | 1% | 1% | 131.3 | 137.1 | 4% | 4% | 49.3 | 40.2 | -19% | -19% | 84.8 | 86.3 | 2% | 2% |
| 40 | June | 56.5 | 58.5 | 4% | 4% | 120.2 | 125.2 | 4% | 4% | 149.5 | 155.0 | 4% | 4% | 109.1 | 112.7 | 3% | 3% | 37.1 | 29.9 | -19% | -15% | 63.2 | 64.0 | 1% | 1% |
| 40 | July | 6.6 | 6.7 | 2% | 1% | 13.1 | 12.7 | -3% | -1% | 19.5 | 18.5 | -5% | -2% | 14.8 | 13.2 | -10% | -5% | 3.4 | 0.7 | -79% | -19% | 6.0 | 5.4 | -9% | -2% |
| 40 | August | 5.6 | 5.5 | -1% | -1% | 11.1 | 10.7 | -4% | -4% | 16.8 | 15.8 | -6% | -6% | 12.9 | 11.5 | -10% | -10% | 3.1 | 0.5 | -84% | -84% | 5.1 | 4.7 | -9% | -9% |
| 40 | September | 5.2 | 5.4 | 3% | 3% | 10.4 | 10.5 | 1% | 1% | 15.7 | 15.5 | -1% | -1% | 12.5 | 11.8 | -5% | -5% | 3.0 | 0.3 | -90% | -90% | 4.9 | 4.7 | -5% | -5% |
| 40 | October | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.5 | -2% | -2% | 14.8 | 14.2 | -4% | -4% | 11.7 | 10.8 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.3 | -5% | -5% |
| 40 | November | 4.1 | 4.3 | 3% | 3% | 8.3 | 9.0 | 8% | 8% | 12.8 | 13.5 | 5% | 5% | 10.0 | 9.6 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.5 | 9% | 9% |
| 40 | December | 3.8 | 3.8 | -1% | -1% | 7.8 | 8.2 | 5% | 5% | 12.1 | 12.4 | 3% | 3% | 9.3 | 8.8 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.2 | 11% | 11% |
| 41 | January | 3.4 | 3.3 | -1% | -1% | 7.1 | 7.4 | 5% | 5% | 11.0 | 11.4 | 3% | 3% | 8.4 | 8.0 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 9% | 9% |
| 41 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.9 | 18% | 18% | 9.1 | 10.6 | 17% | 17% | 6.9 | 7.4 | 8% | 8% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 12% | 12% |
| 41 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.3 | 4% | 4% | 9.3 | 9.7 | 5% | 5% | 6.9 | 6.8 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.4 | 6% | 6% |
| 41 | April | 30.7 | 31.7 | 3% | 3% | 68.2 | 70.8 | 4% | 4% | 81.1 | 84.3 | 4% | 4% | 55.8 | 65.2 | 17% | 17% | 20.1 | 14.6 | -27% | -27% | 36.8 | 37.1 | 1% | 1% |
| 41 | May | 63.7 | 63.7 | 0% | 0% | 138.3 | 139.4 | 1% | 1% | 169.7 | 169.8 | 0% | 0% | 120.0 | 120.9 | 1% | 1% | 42.3 | 34.5 | -18% | -18% | 71.7 | 72.6 | 1% | 1% |
| 41 | June | 36.5 | 37.8 | 4% | 3% | 76.8 | 79.5 | 4% | 2% | 97.2 | 99.9 | 3% | 2% | 72.1 | 74.1 | 3% | 2% | 23.2 | 17.8 | -23% | -11% | 40.0 | 39.9 | 0% | 0% |
| 41 | July | 6.6 | 6.7 | 1% | 1% | 13.5 | 13.0 | -4% | -1% | 20.1 | 19.1 | -5% | -2% | 15.0 | 13.5 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 5.8 | -9% | -3% |
| 41 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 10.9 | -3% | -3% | 17.1 | 16.3 | -5% | -5% | 12.9 | 11.6 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.3 | 4.9 | -7% | -7% |
| 41 | September | 8.6 | 8.9 | 3% | 3% | 18.0 | 18.4 | 2% | 2% | 25.0 | 24.9 | 0% | 0% | 20.8 | 22.8 | 9% | 9% | 4.0 | 0.6 | -85% | -85% | 9.0 | 8.8 | -3% | -3% |
| 41 | October | 18.5 | 18.4 | 0% | 0% | 39.1 | 39.2 | 0% | 0% | 48.5 | 48.3 | 0% | 0% | 36.3 | 37.6 | 4% | 4% | 10.9 | 6.7 | -38% | -38% | 19.5 | 19.7 | 1% | 1% |
| 41 | November | 5.8 | 6.0 | 3% | 3% | 12.2 | 13.2 | 8% | 8% | 17.9 | 18.8 | 5% | 5% | 13.1 | 12.2 | -7% | -7% | 3.7 | 0.9 | -76% | -76% | 6.1 | 6.7 | 9% | 9% |
| 41 | December | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.9 | 2% | 2% | 16.0 | 16.1 | 0% | 0% | 11.7 | 10.6 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.2 | 5.4 | 4% | 4% |
| 42 | January | 4.5 | 4.5 | 1% | 1% | 9.4 | 9.7 | 3% | 3% | 14.3 | 14.5 | 1% | 1% | 10.7 | 9.7 | -10% | -10% | 3.0 | 0.4 | -86% | -86% | 4.6 | 4.8 | 3% | 3% |
| 42 | February | 3.6 | 3.9 | 10% | 10% | 7.6 | 8.6 | 13% | 13% | 11.6 | 13.1 | 13% | 13% | 8.8 | 9.0 | 2% | 2% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.3 | 4% | 4% |
| 42 | March | 6.0 | 6.1 | 0% | 0% | 12.5 | 12.6 | 0% | 0% | 17.9 | 18.0 | 0% | 0% | 14.8 | 16.2 | 10% | 10% | 3.0 | 0.1 | -97% | -97% | 6.0 | 6.0 | 1% | 1% |
| 42 | April | 26.0 | 26.7 | 3% | 3% | 56.9 | 58.9 | 3% | 3% | 68.4 | 70.5 | 3% | 3% | 46.9 | 52.8 | 13% | 13% | 16.9 | 11.8 | -30% | -30% | 30.4 | 30.6 | 1% | 1% |
| 42 | May | 74.1 | 74.1 | 0% | 0% | 161.1 | 162.4 | 1% | 1% | 199.2 | 200.0 | 0% | 0% | 140.8 | 140.5 | 0% | 0% | 50.4 | 41.3 | -18% | -18% | 83.8 | 84.9 | 1% | 1% |
| 42 | June | 39.1 | 40.5 | 4% | 3% | 82.6 | 85.9 | 4% | 3% | 105.2 | 108.3 | 3% | 2% | 77.6 | 79.0 | 2% | 2% | 25.4 | 19.4 | -24% | -12% | 43.2 | 43.5 | 1% | 0% |
| 42 | July | 7.1 | 7.2 | 1% | 1% | 14.6 | 14.1 | -4% | -1% | 21.6 | 20.6 | -4% | -2% | 16.1 | 14.4 | -10% | -5% | 4.1 | 1.1 | -73% | -21% | 7.0 | 6.3 | -10% | -3% |
| 42 | August | 5.9 | 5.9 | 0% | 0% | 12.2 | 11.8 | -3% | -3% | 18.1 | 17.4 | -4% | -4% | 13.6 | 12.2 | -10% | -10% | 3.6 | 0.7 | -81% | -81% | 5.9 | 5.4 | -8% | -8% |
| 42 | September | 5.8 | 6.0 | 3% | 3% | 11.9 | 12.0 | 1% | 1% | 17.6 | 17.6 | 0% | 0% | 13.7 | 13.4 | -2% | -2% | 3.4 | 0.5 | -85% | -85% | 5.9 | 5.6 | -5% | -5% |
| 42 | October | 17.9 | 17.8 | 0% | 0% | 38.3 | 38.4 | 0% | 0% | 48.0 | 47.5 | -1% | -1% | 37.1 | 39.7 | 7% | 7% | 10.0 | 5.6 | -44% | -44% | 19.3 | 19.4 | 0% | 0% |
| 42 | November | 5.9 | 6.1 | 3% | 3% | 12.3 | 12.8 | 4% | 4% | 18.1 | 18.5 | 3% | 3% | 13.3 | 12.5 | -6% | -6% | 3.7 | 0.8 | -78% | -78% | 6.1 | 6.1 | 0% | 0% |
| 42 | December | 5.2 | 5.3 | 1% | 1% | 10.9 | 10.9 | 1% | 1% | 16.2 | 16.3 | 1% | 1% | 11.9 | 10.8 | -9% | -9% | 3.4 | 0.6 | -82% | -82% | 5.3 | 5.3 | 0% | 0% |
| 43 | January | 4.6 | 4.6 | 0% | 0% | 9.6 | 10.0 | 3% | 3% | 14.5 | 14.8 | 2% | 2% | 10.9 | 9.9 | -9% | -9% | 3.0 | 0.3 | -90% | -90% | 4.7 | 5.0 | 5% | 5% |
| 43 | February | 3.8 | 4.1 | 6% | 6% | 8.1 | 9.0 | 12% | 12% | 12.3 | 13.6 | 11% | 11% | 9.3 | 9.2 | -1% | -1% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.6 | 8% | 8% |
| 43 | March | 3.6 | 3.6 | -1% | -1% | 7.8 | 8.1 | 4% | 4% | 11.9 | 12.4 | 5% | 5% | 8.9 | 8.4 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 43 | April | 23.4 | 24.1 | 3% | 3% | 51.5 | 53.6 | 4% | 4% | 61.9 | 64.4 | 4% | 4% | 43.6 | 50.9 | 17% | 17% | 14.9 | 9.9 | -34% | -34% | 27.5 | 27.9 | 2% | 2% |
| 43 | May | 73.1 | 73.1 | 0% | 0% | 159.0 | 160.6 | 1% | 1% | 196.1 | 197.1 | 1% | 1% | 137.6 | 137.8 | 0% | 0% | 49.6 | 40.6 | -18% | -18% | 82.8 | 84.1 | 2% | 2% |
| 43 | June | 66.1 | 68.3 | 3% | 3% | 140.7 | 146.5 | 4% | 4% | 177.4 | 183.7 | 4% | 4% | 130.3 | 132.6 | 2% | 2% | 44.2 | 35.9 | -19% | -17% | 74.3 | 75.2 | 1% | 1% |
| 43 | July | 7.2 | 7.3 | 2% | 1% | 14.4 | 14.1 | -2% | -1% | 21.6 | 20.7 | -4% | -2% | 16.2 | 14.5 | -11% | -6% | 3.9 | 1.0 | -74% | -21% | 6.7 | 6.3 | -7% | -2% |
| 43 | August | 5.9 | 5.9 | 0% | 0% | 12.0 | 11.7 | -3% | -3% | 18.1 | 17.3 | -4% | -4% | 13.6 | 12.2 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.3 | -7% | -7% |
| 43 | September | 5.0 | 5.1 | 2% | 2% | 10.1 | 10.3 | 2% | 2% | 15.4 | 15.4 | 0% | 0% | 11.9 | 11.1 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.7 | -3% | -3% |
| 43 | October | 5.0 | 5.0 | 1% | 1% | 10.0 | 9.9 | -1% | -1% | 15.3 | 14.9 | -3% | -3% | 12.0 | 11.1 | -8% | -8% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.5 | -4% | -4% |
| 43 | November | 4.3 | 4.4 | 3% | 3% | 8.6 | 9.2 | 7% | 7% | 13.3 | 14.0 | 5% | 5% | 10.4 | 10.0 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.5 | 8% | 8% |
| 43 | December | 3.9 | 3.9 | -1% | -1% | 8.0 | 8.4 | 5% | 5% | 12.5 | 12.9 | 3% | 3% | 9.5 | 9.0 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.3 | 10% | 10% |
| 44 | January | 3.5 | 3.4 | 0% | 0% | 7.3 | 7.4 | 1% | 1% | 11.4 | 11.6 | 2% | 2% | 8.6 | 8.3 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.6 | 0% | 0% |
| 44 | February | 2.8 | 3.1 | 10% | 10% | 6.0 | 7.4 | 23% | 23% | 9.5 | 11.4 | 20% | 20% | 7.1 | 7.7 | 8% | 8% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.1 | 20% | 20% |
| 44 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.3 | 2% | 2% | 9.6 | 10.0 | 4% | 4% | 7.1 | 7.1 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.2 | 1% | 1% |
| 44 | April | 29.4 | 30.3 | 3% | 3% | 65.2 | 67.5 | 4% | 4% | 77.7 | 80.5 | 4% | 4% | 53.7 | 63.0 | 17% | 17% | 19.1 | 13.7 | -28% | -28% | 35.0 | 35.2 | 0% | 0% |
| 44 | May | 65.3 | 65.4 | 0% | 0% | 141.9 | 143.1 | 1% | 1% | 174.4 | 174.6 | 0% | 0% | 122.9 | 123.8 | 1% | 1% | 43.5 | 35.5 | -18% | -18% | 73.6 | 74.6 | 1% | 1% |
| 44 | June | 14.7 | 15.4 | 5% | 1% | 30.0 | 30.7 | 2% | 1% | 39.2 | 39.8 | 1% | 0% | 30.4 | 31.6 | 4% | 2% | 7.8 | 4.2 | -46% | -7% | 14.9 | 14.4 | -3% | -1% |

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| 44 | July | 6.3 | 6.4 | 1% | 0% | 12.9 | 12.4 | -4% | -1% | 19.2 | 18.1 | -6% | -3% | 14.3 | 13.0 | -9% | -4% | 3.6 | 0.8 | -78% | -20% | 6.1 | 5.5 | -10% | -3% |
| 44 | August | 5.4 | 5.4 | -1% | -1% | 11.0 | 10.6 | -4% | -4% | 16.6 | 15.7 | -5% | -5% | 12.6 | 11.4 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.2 | 4.8 | -8% | -8% |
| 44 | September | 4.9 | 5.0 | 3% | 3% | 9.8 | 9.9 | 1% | 1% | 14.9 | 14.9 | 0% | 0% | 11.5 | 10.9 | -5% | -5% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -5% | -5% |
| 44 | October | 6.1 | 6.1 | 1% | 1% | 12.5 | 12.2 | -2% | -2% | 18.2 | 17.6 | -3% | -3% | 14.8 | 15.2 | 3% | 3% | 3.1 | 0.2 | -94% | -94% | 5.9 | 5.6 | -6% | -6% |
| 44 | November | 5.3 | 5.5 | 3% | 3% | 10.8 | 11.2 | 3% | 3% | 15.8 | 16.2 | 2% | 2% | 12.4 | 12.5 | 1% | 1% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.3 | -1% | -1% |
| 44 | December | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.6 | 1% | 1% | 14.0 | 14.1 | 1% | 1% | 10.7 | 10.2 | -5% | -5% | 2.7 | 0.1 | -96% | -96% | 4.6 | 4.6 | 1% | 1% |
| 45 | January | 3.9 | 3.9 | -1% | -1% | 8.3 | 8.8 | 6% | 6% | 12.4 | 13.0 | 5% | 5% | 9.4 | 9.0 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.7 | 12% | 12% |
| 45 | February | 3.2 | 3.5 | 10% | 10% | 6.8 | 7.8 | 15% | 15% | 10.2 | 11.8 | 16% | 16% | 7.7 | 8.3 | 8% | 8% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.1 | 6% | 6% |
| 45 | March | 3.2 | 3.1 | 0% | 0% | 7.0 | 7.5 | 7% | 7% | 10.4 | 11.2 | 8% | 8% | 7.8 | 7.7 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.1 | 14% | 14% |
| 45 | April | 16.1 | 16.5 | 3% | 3% | 35.7 | 36.6 | 2% | 2% | 43.5 | 44.2 | 2% | 2% | 31.4 | 39.0 | 24% | 24% | 9.4 | 5.1 | -45% | -45% | 19.0 | 18.9 | -1% | -1% |
| 45 | May | 38.8 | 38.9 | 0% | 0% | 84.0 | 84.3 | 0% | 0% | 101.1 | 101.2 | 0% | 0% | 67.5 | 69.6 | 3% | 3% | 25.6 | 19.7 | -23% | -16% | 43.3 | 43.5 | 1% | 1% |
| 45 | June | 66.5 | 68.7 | 3% | 3% | 143.7 | 149.6 | 4% | 4% | 178.1 | 184.8 | 4% | 4% | 128.9 | 132.6 | 3% | 3% | 45.7 | 37.3 | -18% | -17% | 76.9 | 77.7 | 1% | 1% |
| 45 | July | 6.9 | 7.0 | 2% | 1% | 14.0 | 13.6 | -3% | -1% | 20.7 | 19.9 | -4% | -2% | 15.4 | 14.0 | -9% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.0 | -9% | -3% |
| 45 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.4 | -3% | -3% | 17.6 | 16.8 | -4% | -4% | 13.3 | 12.0 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.6 | 5.2 | -8% | -8% |
| 45 | September | 5.4 | 5.6 | 3% | 3% | 11.0 | 11.1 | 1% | 1% | 16.5 | 16.4 | 0% | 0% | 12.9 | 12.4 | -4% | -4% | 3.2 | 0.4 | -88% | -88% | 5.4 | 5.1 | -5% | -5% |
| 45 | October | 22.7 | 22.6 | 0% | 0% | 48.9 | 49.1 | 0% | 0% | 60.5 | 60.1 | -1% | -1% | 45.4 | 48.6 | 7% | 7% | 13.3 | 8.5 | -36% | -36% | 24.8 | 25.0 | 1% | 1% |
| 45 | November | 6.0 | 6.3 | 5% | 5% | 12.3 | 12.9 | 5% | 5% | 18.1 | 18.7 | 3% | 3% | 13.5 | 12.7 | -6% | -6% | 3.6 | 0.7 | -80% | -80% | 6.1 | 6.2 | 1% | 1% |
| 45 | December | 5.3 | 5.3 | 0% | 0% | 10.9 | 11.2 | 2% | 2% | 16.3 | 16.3 | 0% | 0% | 12.1 | 11.0 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.5 | 4% | 4% |
| 46 | January | 4.6 | 4.7 | 0% | 0% | 9.6 | 10.2 | 6% | 6% | 14.5 | 15.0 | 3% | 3% | 11.0 | 10.1 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 5.1 | 10% | 10% |
| 46 | February | 3.7 | 4.1 | 10% | 10% | 7.8 | 9.0 | 16% | 16% | 11.9 | 13.6 | 15% | 15% | 9.0 | 9.3 | 3% | 3% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.6 | 9% | 9% |
| 46 | March | 3.7 | 3.6 | -1% | -1% | 7.8 | 8.1 | 4% | 4% | 12.0 | 12.5 | 4% | 4% | 9.1 | 8.6 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 46 | April | 34.0 | 35.2 | 3% | 3% | 75.0 | 77.8 | 4% | 4% | 90.4 | 93.4 | 3% | 3% | 61.9 | 69.6 | 12% | 12% | 23.0 | 16.9 | -26% | -26% | 40.3 | 40.6 | 1% | 1% |
| 46 | May | 57.7 | 57.7 | 0% | 0% | 124.9 | 125.8 | 1% | 1% | 154.6 | 154.9 | 0% | 0% | 110.7 | 111.1 | 0% | 0% | 38.3 | 30.9 | -19% | -19% | 64.6 | 65.3 | 1% | 1% |
| 46 | June | 30.7 | 31.8 | 4% | 2% | 64.5 | 66.7 | 3% | 2% | 82.2 | 84.6 | 3% | 2% | 61.0 | 62.7 | 3% | 2% | 19.4 | 14.2 | -27% | -11% | 33.4 | 33.3 | 0% | 0% |
| 46 | July | 6.8 | 6.9 | 1% | 0% | 14.0 | 13.5 | -4% | -1% | 20.8 | 19.9 | -4% | -2% | 15.4 | 13.9 | -9% | -5% | 3.9 | 1.0 | -74% | -21% | 6.7 | 6.0 | -10% | -3% |
| 46 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.4 | -2% | -2% | 17.5 | 16.9 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.3 | -6% | -6% |
| 46 | September | 4.8 | 5.0 | 4% | 4% | 9.9 | 10.1 | 2% | 2% | 15.0 | 15.1 | 1% | 1% | 11.5 | 10.7 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.7 | -5% | -5% |
| 46 | October | 21.7 | 21.6 | 0% | 0% | 46.9 | 47.2 | 1% | 1% | 58.1 | 57.8 | -1% | -1% | 43.2 | 46.6 | 8% | 8% | 12.8 | 8.1 | -37% | -37% | 24.0 | 24.3 | 1% | 1% |
| 46 | November | 5.6 | 5.8 | 3% | 3% | 11.6 | 12.2 | 5% | 5% | 17.3 | 17.8 | 3% | 3% | 12.7 | 11.9 | -6% | -6% | 3.4 | 0.6 | -82% | -82% | 5.8 | 5.9 | 2% | 2% |
| 46 | December | 5.0 | 5.0 | 0% | 0% | 10.3 | 10.9 | 6% | 6% | 15.5 | 16.1 | 4% | 4% | 11.5 | 10.4 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.0 | 5.6 | 11% | 11% |
| 47 | January | 4.4 | 4.4 | 0% | 0% | 9.1 | 9.5 | 4% | 4% | 13.9 | 14.2 | 3% | 3% | 10.5 | 9.6 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.7 | 6% | 6% |
| 47 | February | 3.6 | 3.8 | 7% | 7% | 7.6 | 8.4 | 11% | 11% | 11.6 | 12.9 | 11% | 11% | 8.9 | 8.9 | 0% | 0% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.3 | 7% | 7% |
| 47 | March | 3.4 | 3.4 | 0% | 0% | 7.4 | 7.6 | 3% | 3% | 11.3 | 11.8 | 4% | 4% | 8.6 | 8.2 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.9 | 4% | 4% |
| 47 | April | 29.7 | 30.7 | 3% | 3% | 65.5 | 67.8 | 3% | 3% | 78.7 | 81.3 | 3% | 3% | 54.3 | 62.0 | 14% | 14% | 19.7 | 14.1 | -29% | -29% | 35.1 | 35.2 | 0% | 0% |
| 47 | May | 67.9 | 68.0 | 0% | 0% | 147.5 | 148.9 | 1% | 1% | 182.1 | 183.0 | 1% | 1% | 129.5 | 129.8 | 0% | 0% | 45.6 | 37.3 | -18% | -18% | 76.6 | 77.8 | 2% | 2% |
| 47 | June | 58.2 | 60.2 | 3% | 3% | 123.8 | 129.0 | 4% | 4% | 156.3 | 161.8 | 4% | 4% | 114.9 | 117.1 | 2% | 2% | 38.6 | 31.1 | -19% | -15% | 65.2 | 66.1 | 1% | 1% |
| 47 | July | 7.0 | 7.1 | 2% | 1% | 14.1 | 13.7 | -2% | -1% | 21.3 | 20.3 | -5% | -2% | 15.8 | 14.2 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.1 | -8% | -2% |
| 47 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.3 | -4% | -4% | 17.7 | 16.8 | -5% | -5% | 13.3 | 12.0 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.0 | -9% | -9% |
| 47 | September | 4.9 | 5.0 | 3% | 3% | 9.9 | 9.9 | 1% | 1% | 15.1 | 15.0 | 0% | 0% | 11.7 | 10.8 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -6% | -6% |
| 47 | October | 4.4 | 4.4 | 0% | 0% | 9.0 | 8.9 | -2% | -2% | 14.0 | 13.7 | -3% | -3% | 10.9 | 9.9 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -5% | -5% |
| 47 | November | 3.9 | 4.0 | 2% | 2% | 7.9 | 8.2 | 3% | 3% | 12.4 | 12.7 | 3% | 3% | 9.6 | 9.2 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 47 | December | 3.6 | 3.6 | -1% | -1% | 7.4 | 7.7 | 3% | 3% | 11.7 | 12.0 | 2% | 2% | 8.9 | 8.4 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 6% | 6% |
| 48 | January | 3.3 | 3.3 | 0% | 0% | 7.0 | 7.7 | 11% | 11% | 11.0 | 11.8 | 8% | 8% | 8.4 | 8.1 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.5 | 4.2 | 21% | 21% |
| 48 | February | 2.6 | 2.9 | 9% | 9% | 5.8 | 6.8 | 19% | 19% | 9.0 | 10.7 | 18% | 18% | 6.8 | 7.4 | 9% | 9% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 48 | March | 2.6 | 2.6 | -1% | -1% | 5.9 | 6.2 | 6% | 6% | 9.2 | 9.8 | 7% | 7% | 6.8 | 6.9 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 9% | 9% |
| 48 | April | 11.2 | 11.5 | 3% | 3% | 24.7 | 25.4 | 3% | 3% | 31.5 | 32.2 | 2% | 2% | 24.0 | 31.7 | 32% | 32% | 5.4 | 1.9 | -65% | -52% | 12.9 | 12.9 | 0% | 0% |
| 48 | May | 59.7 | 59.6 | 0% | 0% | 130.7 | 131.9 | 1% | 1% | 156.9 | 157.5 | 0% | 0% | 106.7 | 108.9 | 2% | 2% | 40.5 | 32.9 | -19% | -19% | 68.2 | 69.3 | 2% | 2% |
| 48 | June | 69.6 | 72.0 | 3% | 3% | 149.2 | 155.3 | 4% | 4% | 186.1 | 193.4 | 4% | 4% | 136.0 | 139.5 | 3% | 3% | 47.0 | 38.5 | -18% | -17% | 79.2 | 80.1 | 1% | 1% |
| 48 | July | 6.7 | 6.9 | 2% | 1% | 13.5 | 13.1 | -3% | -1% | 20.3 | 19.3 | -5% | -3% | 15.3 | 13.7 | -10% | -5% | 3.6 | 0.8 | -77% | -20% | 6.2 | 5.6 | -10% | -3% |
| 48 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 10.9 | -3% | -3% | 17.1 | 16.3 | -5% | -5% | 13.0 | 11.7 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.8 | -8% | -8% |
| 48 | September | 4.8 | 5.0 | 5% | 5% | 9.5 | 9.6 | 1% | 1% | 14.6 | 14.6 | -1% | -1% | 11.4 | 10.6 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.3 | -7% | -7% |
| 48 | October | 4.3 | 4.3 | 0% | 0% | 8.7 | 8.6 | -1% | -1% | 13.6 | 13.3 | -2% | -2% | 10.7 | 9.8 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -4% | -4% |
| 48 | November | 4.1 | 4.2 | 3% | 3% | 8.2 | 8.5 | 5% | 5% | 12.7 | 13.1 | 3% | 3% | 9.9 | 9.7 | -2% | -2% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 48 | December | 3.7 | 3.7 | 0% | 0% | 7.6 | 7.8 | 3% | 3% | 11.8 | 12.1 | 2% | 2% | 9.1 | 8.7 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 5% | 5% |
| 49 | January | 3.2 | 3.2 | 0% | 0% | 6.8 | 7.6 | 11% | 11% | 10.7 | 11.5 | 8% | 8% | 8.2 | 7.9 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.1 | 20% | 20% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | February | 2.6 | 2.8 | 10% | 10% | 5.7 | 6.7 | 18% | 18% | 8.9 | 10.4 | 18% | 18% | 6.7 | 7.3 | 9% | 9% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.6 | 13% | 13% |
| 49 | March | 2.6 | 2.6 | -1% | -1% | 5.8 | 5.9 | 3% | 3% | 9.0 | 9.4 | 5% | 5% | 6.7 | 6.7 | 1% | 1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.1 | 4% | 4% |
| 49 | April | 22.8 | 23.4 | 3% | 3% | 50.3 | 52.6 | 5% | 5% | 59.9 | 62.7 | 5% | 5% | 42.8 | 52.0 | 21% | 21% | 14.1 | 9.4 | -33% | -33% | 26.8 | 27.6 | 3% | 3% |
| 49 | May | 61.8 | 61.9 | 0% | 0% | 134.5 | 135.5 | 1% | 1% | 164.1 | 164.2 | 0% | 0% | 114.0 | 115.3 | 1% | 1% | 41.4 | 33.7 | -19% | -19% | 69.9 | 70.7 | 1% | 1% |
| 49 | June | 61.9 | 64.0 | 3% | 3% | 132.0 | 137.6 | 4% | 4% | 165.6 | 171.9 | 4% | 4% | 121.5 | 124.4 | 2% | 2% | 41.3 | 33.5 | -19% | -16% | 69.7 | 70.7 | 1% | 1% |
| 49 | July | 6.7 | 6.8 | 2% | 1% | 13.4 | 13.1 | -3% | -1% | 20.3 | 19.4 | -5% | -2% | 15.3 | 13.7 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.2 | 5.7 | -8% | -2% |
| 49 | August | 5.6 | 5.6 | -1% | -1% | 11.3 | 10.9 | -3% | -3% | 17.1 | 16.3 | -5% | -5% | 13.0 | 11.7 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.2 | 4.9 | -6% | -6% |
| 49 | September | 4.7 | 4.9 | 3% | 3% | 9.5 | 9.6 | 1% | 1% | 14.6 | 14.5 | 0% | 0% | 11.4 | 10.6 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.4 | -4% | -4% |
| 49 | October | 4.3 | 4.3 | 0% | 0% | 8.7 | 8.6 | 0% | 0% | 13.5 | 13.3 | -2% | -2% | 10.7 | 9.7 | -9% | -9% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -2% | -2% |
| 49 | November | 3.9 | 4.0 | 2% | 2% | 7.8 | 8.1 | 3% | 3% | 12.3 | 12.6 | 2% | 2% | 9.6 | 9.3 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | -1% | -1% |
| 49 | December | 3.6 | 3.5 | -1% | -1% | 7.3 | 7.4 | 2% | 2% | 11.5 | 11.7 | 1% | 1% | 8.8 | 8.4 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 50 | January | 3.1 | 3.1 | 0% | 0% | 6.6 | 6.7 | 2% | 2% | 10.4 | 10.7 | 2% | 2% | 8.0 | 7.8 | -3% | -3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 50 | February | 2.5 | 2.7 | 9% | 9% | 5.5 | 6.3 | 15% | 15% | 8.6 | 10.0 | 15% | 15% | 6.6 | 7.2 | 9% | 9% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 5% | 5% |
| 50 | March | 2.5 | 2.5 | 0% | 0% | 5.6 | 6.0 | 8% | 8% | 8.8 | 9.5 | 8% | 8% | 6.5 | 6.6 | 1% | 1% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.3 | 12% | 12% |
| 50 | April | 11.4 | 11.7 | 3% | 3% | 25.3 | 26.3 | 4% | 4% | 32.2 | 33.1 | 3% | 3% | 24.4 | 32.4 | 33% | 33% | 5.6 | 2.2 | -61% | -50% | 13.3 | 13.6 | 2% | 2% |
| 50 | May | 39.5 | 39.5 | 0% | 0% | 86.0 | 86.5 | 1% | 1% | 102.3 | 102.7 | 0% | 0% | 68.4 | 71.2 | 4% | 4% | 26.0 | 20.4 | -22% | -15% | 44.5 | 45.0 | 1% | 1% |
| 50 | June | 34.4 | 35.5 | 3% | 2% | 73.7 | 76.2 | 3% | 2% | 91.2 | 93.2 | 2% | 1% | 66.1 | 68.9 | 4% | 4% | 22.6 | 17.3 | -24% | -11% | 38.9 | 38.8 | 0% | 0% |
| 50 | July | 6.2 | 6.3 | 1% | 1% | 12.8 | 12.5 | -3% | -1% | 18.9 | 18.1 | -4% | -2% | 14.0 | 12.8 | -9% | -4% | 3.5 | 0.8 | -77% | -19% | 6.1 | 5.6 | -8% | -2% |
| 50 | August | 5.3 | 5.2 | 0% | 0% | 10.7 | 10.3 | -4% | -4% | 16.1 | 15.4 | -5% | -5% | 12.2 | 11.1 | -9% | -9% | 3.1 | 0.6 | -81% | -81% | 5.1 | 4.6 | -9% | -9% |
| 50 | September | 4.8 | 5.0 | 4% | 4% | 9.8 | 9.9 | 1% | 1% | 14.8 | 14.8 | 0% | 0% | 11.5 | 11.0 | -4% | -4% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.5 | -6% | -6% |
| 50 | October | 7.2 | 7.2 | 0% | 0% | 14.8 | 14.5 | -2% | -2% | 20.8 | 20.3 | -3% | -3% | 17.1 | 18.3 | 7% | 7% | 3.3 | 0.2 | -94% | -94% | 7.1 | 6.8 | -4% | -4% |
| 50 | November | 4.7 | 4.8 | 3% | 3% | 9.6 | 10.4 | 8% | 8% | 14.1 | 15.0 | 6% | 6% | 11.0 | 10.5 | -4% | -4% | 2.8 | 0.2 | -93% | -93% | 4.8 | 5.2 | 9% | 9% |
| 50 | December | 4.1 | 4.1 | 0% | 0% | 8.6 | 9.4 | 9% | 9% | 12.8 | 13.8 | 7% | 7% | 9.9 | 9.3 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.3 | 5.0 | 17% | 17% |
| 51 | January | 3.6 | 3.6 | -1% | -1% | 7.7 | 8.3 | 8% | 8% | 11.5 | 12.4 | 8% | 8% | 8.9 | 8.5 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.5 | 15% | 15% |
| 51 | February | 3.0 | 3.2 | 7% | 7% | 6.6 | 7.4 | 12% | 12% | 9.8 | 11.2 | 14% | 14% | 7.5 | 7.9 | 4% | 4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 9% | 9% |
| 51 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.8 | 6% | 6% | 9.7 | 10.4 | 8% | 8% | 7.3 | 7.2 | 0% | 0% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 51 | April | 34.5 | 35.6 | 3% | 3% | 76.3 | 79.4 | 4% | 4% | 90.7 | 94.4 | 4% | 4% | 61.3 | 70.4 | 15% | 15% | 23.5 | 17.4 | -26% | -26% | 41.1 | 41.7 | 1% | 1% |
| 51 | May | 102.5 | 102.4 | 0% | 0% | 221.9 | 224.1 | 1% | 1% | 273.8 | 275.9 | 1% | 1% | 196.6 | 195.8 | 0% | 0% | 68.7 | 57.4 | -16% | -16% | 115.1 | 117.1 | 2% | 2% |
| 51 | June | 58.5 | 60.5 | 3% | 3% | 123.8 | 128.9 | 4% | 4% | 156.7 | 161.5 | 3% | 3% | 115.9 | 117.7 | 2% | 2% | 38.4 | 30.9 | -20% | -15% | 64.9 | 65.6 | 1% | 1% |
| 51 | July | 7.0 | 7.1 | 2% | 1% | 13.9 | 13.6 | -3% | -1% | 21.1 | 20.0 | -5% | -3% | 16.0 | 14.3 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 5.9 | -8% | -2% |
| 51 | August | 5.8 | 5.8 | 0% | 0% | 11.6 | 11.3 | -2% | -2% | 17.6 | 16.8 | -5% | -5% | 13.4 | 12.0 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.1 | -6% | -6% |
| 51 | September | 4.9 | 5.0 | 3% | 3% | 9.7 | 9.9 | 2% | 2% | 15.0 | 14.9 | -1% | -1% | 11.7 | 10.9 | -7% | -7% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.4 | -5% | -5% |
| 51 | October | 19.1 | 19.1 | 0% | 0% | 41.1 | 41.3 | 0% | 0% | 51.3 | 50.7 | -1% | -1% | 39.5 | 42.9 | 8% | 8% | 10.8 | 6.4 | -41% | -41% | 20.8 | 21.0 | 1% | 1% |
| 51 | November | 5.5 | 5.7 | 3% | 3% | 11.3 | 11.7 | 4% | 4% | 17.0 | 17.3 | 2% | 2% | 12.5 | 11.8 | -6% | -6% | 3.3 | 0.6 | -82% | -82% | 5.5 | 5.6 | 1% | 1% |
| 51 | December | 4.9 | 4.9 | 0% | 0% | 10.0 | 10.2 | 2% | 2% | 15.3 | 15.2 | 0% | 0% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.9 | 3% | 3% |
| 52 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.1 | 3% | 3% | 13.8 | 13.8 | 0% | 0% | 10.3 | 9.4 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.4 | 4% | 4% |
| 52 | February | 3.4 | 3.8 | 10% | 10% | 7.2 | 8.4 | 18% | 18% | 11.2 | 12.9 | 15% | 15% | 8.5 | 8.7 | 3% | 3% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.3 | 11% | 11% |
| 52 | March | 3.4 | 3.3 | 0% | 0% | 7.2 | 7.6 | 6% | 6% | 11.3 | 11.8 | 5% | 5% | 8.5 | 8.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.0 | 10% | 10% |
| 52 | April | 17.5 | 17.9 | 3% | 3% | 38.4 | 39.5 | 3% | 3% | 46.9 | 47.8 | 2% | 2% | 34.4 | 41.4 | 20% | 20% | 10.4 | 6.1 | -42% | -42% | 20.4 | 20.3 | 0% | 0% |
| 52 | May | 81.4 | 81.4 | 0% | 0% | 177.4 | 179.3 | 1% | 1% | 217.9 | 219.6 | 1% | 1% | 151.9 | 152.5 | 0% | 0% | 55.5 | 45.9 | -17% | -17% | 92.5 | 94.1 | 2% | 2% |
| 52 | June | 33.6 | 34.8 | 4% | 3% | 70.5 | 73.1 | 4% | 2% | 90.0 | 92.2 | 3% | 2% | 66.5 | 68.2 | 3% | 2% | 21.3 | 16.0 | -25% | -11% | 36.5 | 36.6 | 0% | 0% |
| 52 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 13.1 | -4% | -1% | 20.5 | 19.5 | -5% | -2% | 15.2 | 13.7 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 5.8 | -10% | -3% |
| 52 | August | 5.6 | 5.6 | 0% | 0% | 11.4 | 11.0 | -3% | -3% | 17.2 | 16.5 | -4% | -4% | 13.0 | 11.7 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.0 | -7% | -7% |
| 52 | September | 4.7 | 4.9 | 3% | 3% | 9.6 | 9.7 | 2% | 2% | 14.7 | 14.8 | 0% | 0% | 11.3 | 10.6 | -6% | -6% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.5 | -5% | -5% |
| 52 | October | 5.5 | 5.5 | 0% | 0% | 11.2 | 11.0 | -2% | -2% | 16.8 | 16.2 | -3% | -3% | 13.6 | 13.5 | 0% | 0% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.0 | -4% | -4% |
| 52 | November | 4.4 | 4.5 | 3% | 3% | 8.9 | 9.2 | 4% | 4% | 13.5 | 13.9 | 3% | 3% | 10.5 | 10.1 | -4% | -4% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.3 | -1% | -1% |
| 52 | December | 3.9 | 3.9 | 0% | 0% | 8.1 | 8.4 | 4% | 4% | 12.5 | 12.8 | 3% | 3% | 9.5 | 9.0 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 6% | 6% |
| 53 | January | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.5 | 4% | 4% | 11.3 | 11.7 | 4% | 4% | 8.5 | 8.2 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 5% | 5% |
| 53 | February | 2.8 | 3.0 | 10% | 10% | 6.0 | 7.0 | 17% | 17% | 9.3 | 10.9 | 17% | 17% | 7.1 | 7.7 | 9% | 9% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 8% | 8% |
| 53 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.3 | 2% | 2% | 9.5 | 9.9 | 5% | 5% | 7.0 | 7.0 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 4% | 4% |
| 53 | April | 9.9 | 10.3 | 3% | 3% | 21.7 | 22.5 | 4% | 4% | 28.1 | 28.9 | 3% | 3% | 21.7 | 28.7 | 32% | 32% | 4.6 | 1.2 | -74% | -50% | 11.2 | 11.3 | 1% | 1% |
| 53 | May | 65.5 | 65.5 | 0% | 0% | 143.8 | 144.8 | 1% | 1% | 172.8 | 173.3 | 0% | 0% | 117.6 | 120.1 | 2% | 2% | 44.8 | 36.6 | -18% | -18% | 75.3 | 76.2 | 1% | 1% |
| 53 | June | 32.5 | 33.7 | 4% | 2% | 68.5 | 71.1 | 4% | 2% | 86.0 | 88.8 | 3% | 2% | 63.2 | 65.8 | 4% | 3% | 20.7 | 15.6 | -25% | -10% | 35.7 | 35.8 | 0% | 0% |
| 53 | July | 6.5 | 6.6 | 1% | 1% | 13.3 | 12.8 | -3% | -1% | 19.7 | 18.8 | -4% | -2% | 14.6 | 13.3 | -9% | -4% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.7 | -8% | -2% |
| 53 | August | 5.5 | 5.4 | -1% | -1% | 11.1 | 10.7 | -4% | -4% | 16.8 | 15.9 | -5% | -5% | 12.7 | 11.5 | -9% | -9% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.8 | -8% | -8% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | September | 4.8 | 5.0 | 3% | 3% | 9.7 | 9.9 | 2% | 2% | 14.8 | 14.8 | 0% | 0% | 11.5 | 10.9 | -5% | -5% | 2.9 | 0.4 | -86% | -86% | 4.8 | 4.6 | -4% | -4% |
| 53 | October | 4.8 | 4.9 | 0% | 0% | 9.7 | 9.6 | -2% | -2% | 14.8 | 14.4 | -2% | -2% | 11.7 | 11.0 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.6 | 4.4 | -4% | -4% |
| 53 | November | 4.1 | 4.2 | 2% | 2% | 8.4 | 8.9 | 7% | 7% | 12.8 | 13.5 | 5% | 5% | 10.0 | 9.7 | -2% | -2% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.4 | 6% | 6% |
| 53 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 7.9 | 3% | 3% | 11.9 | 12.2 | 3% | 3% | 9.1 | 8.8 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 5% | 5% |
| 54 | January | 3.3 | 3.2 | -1% | -1% | 7.0 | 7.5 | 8% | 8% | 10.8 | 11.5 | 7% | 7% | 8.3 | 8.1 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 4.0 | 14% | 14% |
| 54 | February | 2.7 | 2.9 | 10% | 10% | 5.8 | 6.8 | 17% | 17% | 8.9 | 10.5 | 18% | 18% | 6.8 | 7.5 | 10% | 10% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 10% | 10% |
| 54 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.3 | 5% | 5% | 9.1 | 9.7 | 7% | 7% | 6.8 | 6.9 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.4 | 9% | 9% |
| 54 | April | 24.6 | 25.2 | 3% | 3% | 54.6 | 56.5 | 4% | 4% | 64.6 | 67.3 | 4% | 4% | 45.4 | 54.6 | 20% | 20% | 15.4 | 10.5 | -32% | -32% | 29.3 | 29.5 | 1% | 1% |
| 54 | May | 58.4 | 58.5 | 0% | 0% | 127.0 | 128.2 | 1% | 1% | 155.2 | 155.2 | 0% | 0% | 107.7 | 109.0 | 1% | 1% | 38.9 | 31.6 | -19% | -19% | 65.9 | 66.9 | 2% | 2% |
| 54 | June | 72.6 | 75.1 | 3% | 3% | 155.3 | 161.6 | 4% | 4% | 194.4 | 201.9 | 4% | 4% | 142.6 | 145.8 | 2% | 2% | 48.9 | 40.1 | -18% | -18% | 82.3 | 83.2 | 1% | 1% |
| 54 | July | 6.8 | 6.9 | 2% | 1% | 13.7 | 13.3 | -3% | -1% | 20.7 | 19.6 | -5% | -3% | 15.6 | 14.0 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.8 | -9% | -3% |
| 54 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.1 | -3% | -3% | 17.3 | 16.5 | -5% | -5% | 13.2 | 11.9 | -10% | -10% | 3.2 | 0.6 | -81% | -81% | 5.3 | 4.9 | -7% | -7% |
| 54 | September | 21.7 | 22.4 | 3% | 3% | 46.2 | 47.9 | 4% | 4% | 58.1 | 59.4 | 2% | 2% | 44.2 | 48.2 | 9% | 9% | 13.0 | 8.4 | -35% | -35% | 24.0 | 24.2 | 1% | 1% |
| 54 | October | 18.6 | 18.6 | 0% | 0% | 38.9 | 39.0 | 0% | 0% | 50.4 | 49.9 | -1% | -1% | 37.3 | 37.6 | 1% | 1% | 10.8 | 6.7 | -38% | -38% | 19.3 | 19.3 | 0% | 0% |
| 54 | November | 6.0 | 6.3 | 4% | 4% | 12.6 | 13.0 | 3% | 3% | 18.7 | 18.9 | 1% | 1% | 13.6 | 12.8 | -6% | -6% | 3.8 | 0.9 | -76% | -76% | 6.3 | 6.2 | -2% | -2% |
| 54 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 16.6 | 16.3 | -2% | -2% | 12.2 | 11.0 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.3 | 0% | 0% |
| 55 | January | 4.6 | 4.7 | 1% | 1% | 9.6 | 9.8 | 2% | 2% | 14.7 | 14.8 | 1% | 1% | 11.1 | 10.1 | -9% | -9% | 3.0 | 0.4 | -86% | -86% | 4.7 | 4.8 | 3% | 3% |
| 55 | February | 3.9 | 4.1 | 6% | 6% | 8.0 | 8.9 | 11% | 11% | 12.4 | 13.6 | 9% | 9% | 9.5 | 9.4 | -1% | -1% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.5 | 8% | 8% |
| 55 | March | 3.6 | 3.6 | -1% | -1% | 7.7 | 8.2 | 7% | 7% | 12.0 | 12.6 | 5% | 5% | 9.1 | 8.6 | -6% | -6% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.3 | 12% | 12% |
| 55 | April | 21.2 | 21.8 | 3% | 3% | 46.8 | 48.4 | 3% | 3% | 56.5 | 58.4 | 3% | 3% | 40.8 | 47.7 | 17% | 17% | 13.4 | 8.6 | -36% | -36% | 24.9 | 25.1 | 1% | 1% |
| 55 | May | 54.5 | 54.6 | 0% | 0% | 118.5 | 119.6 | 1% | 1% | 146.3 | 146.4 | 0% | 0% | 101.6 | 102.3 | 1% | 1% | 36.8 | 29.6 | -19% | -19% | 61.5 | 62.4 | 1% | 1% |
| 55 | June | 29.8 | 30.8 | 4% | 2% | 62.9 | 64.9 | 3% | 2% | 80.0 | 82.3 | 3% | 2% | 59.0 | 61.1 | 4% | 3% | 19.0 | 14.0 | -26% | -10% | 32.8 | 32.5 | -1% | 0% |
| 55 | July | 6.7 | 6.7 | 1% | 0% | 13.8 | 13.1 | -4% | -2% | 20.4 | 19.4 | -5% | -2% | 15.0 | 13.7 | -9% | -4% | 3.8 | 0.9 | -76% | -21% | 6.6 | 5.9 | -11% | -3% |
| 55 | August | 5.5 | 5.6 | 1% | 1% | 11.4 | 11.2 | -2% | -2% | 17.2 | 16.7 | -3% | -3% | 12.9 | 11.7 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.2 | -5% | -5% |
| 55 | September | 4.7 | 4.9 | 3% | 3% | 9.7 | 9.8 | 2% | 2% | 14.7 | 15.0 | 2% | 2% | 11.3 | 10.6 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -4% | -4% |
| 55 | October | 5.4 | 5.4 | 0% | 0% | 11.1 | 10.9 | -2% | -2% | 16.5 | 16.1 | -2% | -2% | 13.2 | 13.1 | -1% | -1% | 3.0 | 0.2 | -93% | -93% | 5.2 | 5.0 | -4% | -4% |
| 55 | November | 4.4 | 4.5 | 3% | 3% | 8.9 | 9.6 | 8% | 8% | 13.4 | 14.3 | 6% | 6% | 10.5 | 10.1 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.8 | 9% | 9% |
| 55 | December | 3.9 | 3.8 | -1% | -1% | 8.1 | 8.2 | 1% | 1% | 12.4 | 12.6 | 2% | 2% | 9.4 | 9.0 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 2% | 2% |
| 56 | January | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.4 | 2% | 2% | 11.2 | 11.5 | 3% | 3% | 8.6 | 8.3 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 2% | 2% |
| 56 | February | 2.8 | 3.0 | 11% | 11% | 6.1 | 7.2 | 19% | 19% | 9.3 | 11.1 | 20% | 20% | 7.0 | 7.7 | 9% | 9% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.9 | 13% | 13% |
| 56 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.7 | 8% | 8% | 9.4 | 10.3 | 9% | 9% | 7.0 | 7.1 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.7 | 13% | 13% |
| 56 | April | 14.4 | 14.8 | 3% | 3% | 31.8 | 33.0 | 4% | 4% | 39.2 | 40.4 | 3% | 3% | 28.9 | 36.9 | 28% | 28% | 7.9 | 4.0 | -50% | -50% | 16.7 | 17.0 | 2% | 2% |
| 56 | May | 72.3 | 72.3 | 0% | 0% | 158.0 | 159.4 | 1% | 1% | 191.2 | 192.5 | 1% | 1% | 131.7 | 133.2 | 1% | 1% | 49.2 | 40.5 | -18% | -18% | 82.5 | 83.7 | 2% | 2% |
| 56 | June | 50.9 | 52.7 | 4% | 4% | 108.1 | 112.3 | 4% | 4% | 135.5 | 140.2 | 3% | 3% | 99.6 | 102.2 | 3% | 3% | 33.5 | 26.6 | -21% | -14% | 56.8 | 57.2 | 1% | 1% |
| 56 | July | 6.7 | 6.8 | 1% | 1% | 13.6 | 13.2 | -3% | -1% | 20.4 | 19.4 | -5% | -2% | 15.3 | 13.8 | -10% | -5% | 3.7 | 0.8 | -78% | -21% | 6.4 | 5.8 | -9% | -3% |
| 56 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.0 | -4% | -4% | 17.2 | 16.4 | -5% | -5% | 13.1 | 11.8 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.3 | 4.9 | -9% | -9% |
| 56 | September | 8.0 | 8.2 | 3% | 3% | 16.4 | 16.6 | 2% | 2% | 23.0 | 22.8 | -1% | -1% | 18.9 | 20.6 | 9% | 9% | 3.7 | 0.4 | -89% | -89% | 8.0 | 7.8 | -3% | -3% |
| 56 | October | 15.6 | 15.6 | 0% | 0% | 32.9 | 32.9 | 0% | 0% | 41.5 | 40.8 | -2% | -2% | 31.9 | 33.6 | 5% | 5% | 8.6 | 4.6 | -46% | -46% | 16.3 | 16.4 | 0% | 0% |
| 56 | November | 5.8 | 5.9 | 3% | 3% | 12.0 | 12.6 | 5% | 5% | 17.6 | 18.1 | 3% | 3% | 12.9 | 12.2 | -6% | -6% | 3.7 | 0.9 | -76% | -76% | 6.0 | 6.2 | 3% | 3% |
| 56 | December | 5.1 | 5.1 | 0% | 0% | 10.6 | 10.8 | 2% | 2% | 15.8 | 15.9 | 1% | 1% | 11.6 | 10.7 | -8% | -8% | 3.3 | 0.6 | -82% | -82% | 5.2 | 5.4 | 5% | 5% |
| 57 | January | 4.5 | 4.5 | 0% | 0% | 9.3 | 9.6 | 3% | 3% | 14.1 | 14.3 | 2% | 2% | 10.6 | 9.8 | -8% | -8% | 2.9 | 0.4 | -86% | -86% | 4.6 | 4.8 | 4% | 4% |
| 57 | February | 3.6 | 3.9 | 9% | 9% | 7.6 | 8.7 | 15% | 15% | 11.5 | 13.2 | 14% | 14% | 8.7 | 9.0 | 4% | 4% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 7% | 7% |
| 57 | March | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.8 | 4% | 4% | 11.6 | 12.1 | 5% | 5% | 8.7 | 8.3 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.1 | 7% | 7% |
| 57 | April | 31.7 | 32.7 | 3% | 3% | 69.9 | 72.5 | 4% | 4% | 84.1 | 87.0 | 4% | 4% | 57.4 | 65.2 | 14% | 14% | 21.4 | 15.6 | -27% | -27% | 37.6 | 37.9 | 1% | 1% |
| 57 | May | 55.9 | 55.9 | 0% | 0% | 121.2 | 122.3 | 1% | 1% | 149.7 | 150.1 | 0% | 0% | 106.1 | 106.6 | 1% | 1% | 37.2 | 29.9 | -20% | -20% | 62.8 | 63.7 | 1% | 1% |
| 57 | June | 35.7 | 37.0 | 4% | 3% | 75.6 | 78.2 | 3% | 2% | 95.8 | 98.8 | 3% | 2% | 70.6 | 72.7 | 3% | 3% | 23.1 | 17.5 | -24% | -11% | 39.4 | 39.4 | 0% | 0% |
| 57 | July | 6.8 | 6.8 | 1% | 1% | 13.9 | 13.4 | -3% | -1% | 20.7 | 19.8 | -4% | -2% | 15.3 | 13.9 | -9% | -5% | 3.8 | 0.9 | -77% | -21% | 6.6 | 6.0 | -9% | -3% |
| 57 | August | 5.6 | 5.6 | 0% | 0% | 11.6 | 11.2 | -3% | -3% | 17.4 | 16.7 | -4% | -4% | 13.1 | 12.0 | -8% | -8% | 3.4 | 0.7 | -79% | -79% | 5.6 | 5.1 | -7% | -7% |
| 57 | September | 4.8 | 4.9 | 3% | 3% | 9.8 | 10.0 | 2% | 2% | 14.9 | 15.0 | 1% | 1% | 11.4 | 10.7 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -3% | -3% |
| 57 | October | 35.0 | 35.0 | 0% | 0% | 76.2 | 77.1 | 1% | 1% | 94.1 | 94.3 | 0% | 0% | 67.5 | 70.9 | 5% | 5% | 22.5 | 16.5 | -27% | -27% | 39.3 | 40.1 | 2% | 2% |
| 57 | November | 5.9 | 6.1 | 4% | 4% | 12.1 | 12.8 | 6% | 6% | 18.1 | 18.7 | 4% | 4% | 13.3 | 12.6 | -5% | -5% | 3.4 | 0.7 | -79% | -79% | 5.9 | 6.2 | 5% | 5% |
| 57 | December | 5.2 | 5.2 | -1% | -1% | 10.7 | 10.8 | 1% | 1% | 16.2 | 16.0 | -1% | -1% | 12.1 | 11.0 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.1 | 5.2 | 2% | 2% |
| 58 | January | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.5 | 1% | 1% | 14.4 | 14.4 | 0% | 0% | 11.0 | 10.1 | -9% | -9% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.5 | 0% | 0% |
| 58 | February | 4.1 | 4.6 | 11% | 11% | 8.4 | 9.5 | 14% | 14% | 12.8 | 14.3 | 12% | 12% | 10.0 | 10.5 | 5% | 5% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.7 | 6% | 6% |
| 58 | March | 4.0 | 3.9 | -1% | -1% | 8.2 | 8.5 | 3% | 3% | 12.6 | 13.0 | 3% | 3% | 9.8 | 9.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |

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| 58 | April | 13.2 | 13.6 | 3% | 3% | 29.0 | 29.9 | 3% | 3% | 36.5 | 37.3 | 2% | 2% | 28.0 | 34.1 | 22% | 22% | 7.1 | 3.1 | -56% | -56% | 15.2 | 15.3 | 0% | 0% |
| 58 | May | 66.8 | 66.8 | 0% | 0% | 145.7 | 146.9 | 1% | 1% | 177.8 | 178.8 | 1% | 1% | 123.6 | 124.7 | 1% | 1% | 45.6 | 37.2 | -18% | -18% | 75.9 | 76.9 | 1% | 1% |
| 58 | June | 61.2 | 63.2 | 3% | 3% | 130.6 | 136.1 | 4% | 4% | 164.1 | 170.4 | 4% | 4% | 120.3 | 123.0 | 2% | 2% | 41.0 | 33.1 | -19% | -16% | 69.0 | 70.0 | 1% | 1% |
| 58 | July | 7.1 | 7.2 | 1% | 1% | 14.4 | 14.0 | -3% | -1% | 21.4 | 20.5 | -4% | -2% | 16.0 | 14.5 | -10% | -5% | 3.9 | 0.9 | -77% | -22% | 6.7 | 6.2 | -8% | -3% |
| 58 | August | 5.9 | 5.9 | 0% | 0% | 11.9 | 11.6 | -3% | -3% | 17.9 | 17.1 | -4% | -4% | 13.5 | 12.2 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.2 | -8% | -8% |
| 58 | September | 5.0 | 5.1 | 2% | 2% | 10.1 | 10.2 | 2% | 2% | 15.3 | 15.4 | 0% | 0% | 11.9 | 11.1 | -6% | -6% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.7 | -3% | -3% |
| 58 | October | 5.3 | 5.4 | 0% | 0% | 10.8 | 10.6 | -2% | -2% | 16.3 | 15.8 | -3% | -3% | 13.0 | 12.6 | -3% | -3% | 3.0 | 0.2 | -93% | -93% | 5.1 | 4.9 | -4% | -4% |
| 58 | November | 4.5 | 4.6 | 3% | 3% | 9.1 | 9.6 | 6% | 6% | 13.8 | 14.4 | 4% | 4% | 10.8 | 10.4 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.5 | 4.7 | 5% | 5% |
| 58 | December | 4.0 | 4.0 | -1% | -1% | 8.3 | 8.4 | 1% | 1% | 12.8 | 12.9 | 1% | 1% | 9.7 | 9.3 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.1 | 2% | 2% |
| 59 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.0 | 7% | 7% | 11.6 | 12.3 | 6% | 6% | 8.8 | 8.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 13% | 13% |
| 59 | February | 3.0 | 3.1 | 6% | 6% | 6.4 | 7.0 | 9% | 9% | 9.9 | 10.9 | 10% | 10% | 7.5 | 7.9 | 6% | 6% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 2% | 2% |
| 59 | March | 2.9 | 2.8 | -1% | -1% | 6.3 | 6.7 | 6% | 6% | 9.8 | 10.4 | 7% | 7% | 7.3 | 7.3 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 10% | 10% |
| 59 | April | 4.9 | 5.0 | 4% | 3% | 10.3 | 10.7 | 4% | 2% | 14.7 | 15.4 | 5% | 3% | 12.3 | 15.5 | 27% | 21% | 2.5 | 0.0 | -100% | -36% | 5.1 | 5.1 | 1% | 0% |
| 59 | May | 42.8 | 42.6 | 0% | 0% | 94.3 | 94.6 | 0% | 0% | 112.2 | 112.3 | 0% | 0% | 74.9 | 80.7 | 8% | 8% | 27.8 | 21.4 | -23% | -17% | 49.3 | 49.7 | 1% | 1% |
| 59 | June | 78.3 | 80.9 | 3% | 3% | 169.1 | 176.4 | 4% | 4% | 209.1 | 217.4 | 4% | 4% | 151.0 | 155.7 | 3% | 3% | 53.7 | 44.3 | -18% | -18% | 90.4 | 91.9 | 2% | 2% |
| 59 | July | 6.7 | 6.9 | 2% | 1% | 13.4 | 13.1 | -2% | -1% | 20.1 | 19.2 | -5% | -2% | 15.0 | 13.7 | -9% | -5% | 3.5 | 0.8 | -77% | -19% | 6.1 | 5.7 | -7% | -2% |
| 59 | August | 5.7 | 5.7 | -1% | -1% | 11.4 | 11.1 | -3% | -3% | 17.2 | 16.4 | -5% | -5% | 13.0 | 11.9 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.3 | 4.9 | -6% | -6% |
| 59 | September | 4.9 | 5.0 | 3% | 3% | 9.7 | 9.9 | 2% | 2% | 14.9 | 14.8 | 0% | 0% | 11.7 | 11.0 | -6% | -6% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.5 | -3% | -3% |
| 59 | October | 4.4 | 4.4 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.8 | 13.6 | -2% | -2% | 10.9 | 10.0 | -8% | -8% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.1 | -2% | -2% |
| 59 | November | 3.9 | 4.0 | 2% | 2% | 7.8 | 8.4 | 8% | 8% | 12.2 | 12.8 | 5% | 5% | 9.5 | 9.2 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 59 | December | 3.6 | 3.6 | 0% | 0% | 7.4 | 8.5 | 15% | 15% | 11.6 | 12.6 | 9% | 9% | 8.8 | 8.5 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.6 | 29% | 29% |
| 60 | January | 3.1 | 3.1 | -1% | -1% | 6.7 | 7.6 | 13% | 13% | 10.5 | 11.5 | 9% | 9% | 8.0 | 7.8 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 4.1 | 24% | 24% |
| 60 | February | 2.5 | 2.8 | 9% | 9% | 5.5 | 6.3 | 15% | 15% | 8.7 | 10.0 | 15% | 15% | 6.6 | 7.3 | 10% | 10% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 5% | 5% |
| 60 | March | 2.6 | 2.5 | -1% | -1% | 5.7 | 5.7 | 1% | 1% | 8.8 | 9.2 | 4% | 4% | 6.5 | 6.7 | 2% | 2% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.0 | 0% | 0% |
| 60 | April | 42.2 | 43.5 | 3% | 3% | 93.4 | 98.1 | 5% | 5% | 111.4 | 116.6 | 5% | 5% | 75.5 | 85.7 | 14% | 14% | 28.7 | 22.1 | -23% | -23% | 50.4 | 52.0 | 3% | 3% |
| 60 | May | 68.3 | 68.4 | 0% | 0% | 147.4 | 148.8 | 1% | 1% | 181.9 | 182.7 | 0% | 0% | 131.4 | 132.0 | 1% | 1% | 44.8 | 36.7 | -18% | -18% | 76.0 | 77.2 | 2% | 2% |
| 60 | June | 94.6 | 97.7 | 3% | 3% | 201.7 | 210.3 | 4% | 4% | 253.5 | 262.7 | 4% | 4% | 187.0 | 194.5 | 4% | 4% | 63.6 | 53.0 | -17% | -17% | 106.7 | 108.3 | 1% | 1% |
| 60 | July | 12.9 | 13.1 | 2% | 1% | 25.9 | 25.6 | -1% | -1% | 35.5 | 34.2 | -4% | -3% | 28.6 | 28.8 | 1% | 1% | 6.2 | 2.7 | -56% | -25% | 12.1 | 11.6 | -4% | -2% |
| 60 | August | 6.6 | 6.6 | 1% | 1% | 13.4 | 13.1 | -2% | -2% | 19.9 | 19.1 | -4% | -4% | 15.1 | 13.8 | -8% | -8% | 3.8 | 0.9 | -76% | -76% | 6.3 | 5.9 | -6% | -6% |
| 60 | September | 6.7 | 6.9 | 4% | 4% | 13.6 | 13.8 | 1% | 1% | 19.9 | 19.7 | -1% | -1% | 15.5 | 15.7 | 1% | 1% | 3.8 | 0.7 | -82% | -82% | 6.7 | 6.4 | -4% | -4% |
| 60 | October | 5.6 | 5.5 | -1% | -1% | 11.3 | 11.1 | -1% | -1% | 16.9 | 16.4 | -3% | -3% | 12.9 | 11.7 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.2 | -2% | -2% |
| 60 | November | 4.7 | 4.9 | 4% | 4% | 9.6 | 10.1 | 5% | 5% | 14.6 | 15.0 | 3% | 3% | 11.3 | 10.8 | -4% | -4% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.8 | 2% | 2% |
| 60 | December | 4.3 | 4.3 | -1% | -1% | 8.9 | 8.9 | 1% | 1% | 13.7 | 13.6 | -1% | -1% | 10.5 | 9.8 | -6% | -6% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.3 | 0% | 0% |
| 61 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.4 | 6% | 6% | 12.4 | 12.8 | 3% | 3% | 9.4 | 9.0 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.3 | 11% | 11% |
| 61 | February | 3.1 | 3.4 | 10% | 10% | 6.6 | 7.4 | 13% | 13% | 10.3 | 11.6 | 13% | 13% | 7.7 | 8.3 | 8% | 8% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 3% | 3% |
| 61 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 7.0 | 5% | 5% | 10.4 | 10.9 | 5% | 5% | 7.8 | 7.7 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 61 | April | 8.0 | 8.2 | 3% | 3% | 17.0 | 17.2 | 2% | 1% | 23.0 | 23.3 | 1% | 1% | 19.0 | 24.5 | 29% | 29% | 3.3 | 0.0 | -100% | -48% | 8.5 | 8.2 | -4% | -3% |
| 61 | May | 35.6 | 35.6 | 0% | 0% | 78.0 | 78.1 | 0% | 0% | 93.0 | 92.8 | 0% | 0% | 61.4 | 65.3 | 6% | 6% | 23.7 | 18.0 | -24% | -15% | 40.5 | 40.6 | 0% | 0% |
| 61 | June | 22.2 | 23.0 | 4% | 2% | 46.9 | 48.3 | 3% | 1% | 58.5 | 59.2 | 1% | 1% | 41.8 | 44.2 | 6% | 3% | 13.8 | 9.5 | -31% | -9% | 24.3 | 24.0 | -1% | 0% |
| 61 | July | 6.2 | 6.2 | 0% | 0% | 12.9 | 12.3 | -5% | -2% | 18.9 | 17.8 | -6% | -3% | 13.8 | 12.7 | -8% | -4% | 3.7 | 0.8 | -78% | -21% | 6.3 | 5.6 | -11% | -3% |
| 61 | August | 5.3 | 5.2 | -1% | -1% | 10.9 | 10.4 | -4% | -4% | 16.2 | 15.4 | -4% | -4% | 12.0 | 11.0 | -8% | -8% | 3.3 | 0.6 | -82% | -82% | 5.3 | 4.8 | -9% | -9% |
| 61 | September | 4.4 | 4.6 | 4% | 4% | 9.2 | 9.4 | 2% | 2% | 13.8 | 14.1 | 2% | 2% | 10.6 | 10.1 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.4 | -5% | -5% |
| 61 | October | 5.3 | 5.3 | -1% | -1% | 11.0 | 10.7 | -2% | -2% | 16.0 | 15.8 | -2% | -2% | 13.0 | 13.2 | 2% | 2% | 3.0 | 0.2 | -93% | -93% | 5.3 | 5.0 | -4% | -4% |
| 61 | November | 4.1 | 4.2 | 2% | 2% | 8.6 | 9.1 | 6% | 6% | 12.8 | 13.5 | 6% | 6% | 9.9 | 9.7 | -2% | -2% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.5 | 3% | 3% |
| 61 | December | 3.6 | 3.7 | 2% | 2% | 7.8 | 8.2 | 5% | 5% | 11.7 | 12.3 | 6% | 6% | 9.0 | 8.7 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 6% | 6% |
| 62 | January | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.9 | 11% | 11% | 10.6 | 11.8 | 11% | 11% | 8.1 | 8.0 | -1% | -1% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.4 | 19% | 19% |
| 62 | February | 2.7 | 2.9 | 10% | 10% | 5.9 | 6.8 | 15% | 15% | 8.9 | 10.4 | 18% | 18% | 6.7 | 7.4 | 12% | 12% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 5% | 5% |
| 62 | March | 2.7 | 2.7 | -1% | -1% | 6.1 | 6.4 | 5% | 5% | 9.1 | 9.8 | 8% | 8% | 6.7 | 6.8 | 3% | 3% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 7% | 7% |
| 62 | April | 6.4 | 6.7 | 3% | 3% | 14.0 | 14.4 | 3% | 2% | 19.0 | 19.6 | 3% | 2% | 15.9 | 20.9 | 32% | 32% | 2.9 | 0.0 | -100% | -42% | 7.2 | 7.1 | -1% | 0% |
| 62 | May | 58.0 | 57.9 | 0% | 0% | 127.8 | 128.7 | 1% | 1% | 152.1 | 152.6 | 0% | 0% | 101.2 | 105.5 | 4% | 4% | 39.3 | 31.5 | -20% | -20% | 66.9 | 67.8 | 1% | 1% |
| 62 | June | 82.4 | 85.1 | 3% | 3% | 176.9 | 184.4 | 4% | 4% | 219.6 | 228.6 | 4% | 4% | 160.0 | 164.2 | 3% | 3% | 56.1 | 46.5 | -17% | -17% | 94.2 | 95.5 | 1% | 1% |
| 62 | July | 6.8 | 7.0 | 2% | 1% | 13.6 | 13.2 | -3% | -1% | 20.3 | 19.3 | -5% | -2% | 15.4 | 13.8 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.2 | 5.7 | -9% | -3% |
| 62 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 10.9 | -4% | -4% | 17.2 | 16.2 | -6% | -6% | 13.2 | 11.9 | -10% | -10% | 3.2 | 0.5 | -84% | -84% | 5.3 | 4.7 | -10% | -10% |
| 62 | September | 4.8 | 5.0 | 3% | 3% | 9.6 | 9.8 | 2% | 2% | 14.7 | 14.6 | -1% | -1% | 11.5 | 10.8 | -6% | -6% | 2.9 | 0.3 | -89% | -89% | 4.6 | 4.4 | -4% | -4% |
| 62 | October | 19.4 | 19.4 | 0% | 0% | 41.8 | 42.0 | 0% | 0% | 51.7 | 51.1 | -1% | -1% | 39.8 | 43.3 | 9% | 9% | 11.0 | 6.7 | -39% | -39% | 21.2 | 21.3 | 1% | 1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | November | 5.5 | 5.7 | 3% | 3% | 11.3 | 11.7 | 4% | 4% | 16.9 | 17.2 | 2% | 2% | 12.5 | 11.8 | -6% | -6% | 3.2 | 0.6 | -81% | -81% | 5.5 | 5.6 | 1% | 1% |
| 62 | December | 4.9 | 4.9 | 0% | 0% | 10.0 | 10.3 | 3% | 3% | 15.2 | 15.2 | 0% | 0% | 11.3 | 10.3 | -9% | -9% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.0 | 3% | 3% |
| 63 | January | 4.3 | 4.3 | 0% | 0% | 8.8 | 9.1 | 3% | 3% | 13.7 | 13.8 | 1% | 1% | 10.3 | 9.5 | -8% | -8% | 2.7 | 0.2 | -92% | -92% | 4.3 | 4.5 | 5% | 5% |
| 63 | February | 3.6 | 3.8 | 6% | 6% | 7.4 | 8.5 | 15% | 15% | 11.5 | 12.9 | 12% | 12% | 8.7 | 8.7 | 0% | 0% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.4 | 13% | 13% |
| 63 | March | 3.8 | 3.8 | 0% | 0% | 7.9 | 8.0 | 1% | 1% | 12.2 | 12.3 | 1% | 1% | 9.4 | 9.1 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | 1% | 1% |
| 63 | April | 6.1 | 6.3 | 3% | 3% | 12.6 | 12.8 | 1% | 1% | 17.9 | 18.1 | 1% | 1% | 15.0 | 17.9 | 19% | 18% | 2.9 | 0.0 | -100% | -43% | 6.2 | 5.9 | -5% | -3% |
| 63 | May | 47.0 | 46.9 | 0% | 0% | 103.2 | 103.8 | 1% | 1% | 124.0 | 123.9 | 0% | 0% | 83.5 | 87.8 | 5% | 5% | 31.3 | 24.4 | -22% | -18% | 53.9 | 54.4 | 1% | 1% |
| 63 | June | 47.4 | 49.0 | 4% | 3% | 101.9 | 105.8 | 4% | 3% | 126.7 | 131.0 | 3% | 3% | 91.6 | 95.0 | 4% | 4% | 32.0 | 25.2 | -21% | -14% | 54.1 | 54.4 | 1% | 0% |
| 63 | July | 6.7 | 6.8 | 1% | 1% | 13.7 | 13.2 | -4% | -1% | 20.3 | 19.4 | -5% | -2% | 15.0 | 13.7 | -8% | -4% | 3.8 | 0.9 | -76% | -21% | 6.5 | 5.9 | -10% | -3% |
| 63 | August | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.6 | -2% | -2% | 17.7 | 17.1 | -3% | -3% | 13.3 | 12.2 | -8% | -8% | 3.4 | 0.7 | -80% | -80% | 5.6 | 5.4 | -4% | -4% |
| 63 | September | 9.7 | 10.0 | 3% | 3% | 20.4 | 20.9 | 2% | 2% | 27.7 | 27.7 | 0% | 0% | 22.9 | 25.3 | 11% | 11% | 4.6 | 1.0 | -78% | -78% | 10.2 | 10.1 | -2% | -2% |
| 63 | October | 12.2 | 12.2 | 0% | 0% | 25.0 | 24.9 | 0% | 0% | 32.5 | 31.8 | -2% | -2% | 24.7 | 25.6 | 4% | 4% | 6.3 | 2.6 | -58% | -58% | 12.0 | 11.9 | -1% | -1% |
| 63 | November | 5.8 | 5.9 | 3% | 3% | 12.1 | 12.8 | 6% | 6% | 17.4 | 18.1 | 4% | 4% | 12.9 | 12.2 | -5% | -5% | 3.8 | 0.9 | -77% | -77% | 6.1 | 6.3 | 4% | 4% |
| 63 | December | 5.2 | 5.1 | 0% | 0% | 10.8 | 11.1 | 3% | 3% | 15.7 | 16.1 | 2% | 2% | 11.7 | 10.7 | -8% | -8% | 3.5 | 0.7 | -80% | -80% | 5.3 | 5.6 | 6% | 6% |
| 64 | January | 4.5 | 4.5 | 0% | 0% | 9.5 | 10.4 | 10% | 10% | 14.0 | 15.1 | 7% | 7% | 10.6 | 9.8 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.6 | 18% | 18% |
| 64 | February | 3.6 | 4.0 | 10% | 10% | 7.6 | 8.8 | 15% | 15% | 11.4 | 13.2 | 16% | 16% | 8.7 | 9.0 | 4% | 4% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.5 | 6% | 6% |
| 64 | March | 3.5 | 3.5 | -1% | -1% | 7.6 | 7.7 | 1% | 1% | 11.5 | 11.9 | 4% | 4% | 8.8 | 8.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.0 | 1% | 1% |
| 64 | April | 37.5 | 38.6 | 3% | 3% | 82.8 | 86.0 | 4% | 4% | 99.6 | 103.1 | 4% | 4% | 67.0 | 75.1 | 12% | 12% | 25.9 | 19.4 | -25% | -25% | 44.7 | 45.1 | 1% | 1% |
| 64 | May | 74.9 | 74.9 | 0% | 0% | 162.1 | 163.4 | 1% | 1% | 200.6 | 201.8 | 1% | 1% | 144.1 | 144.0 | 0% | 0% | 50.0 | 41.1 | -18% | -18% | 84.0 | 85.1 | 1% | 1% |
| 64 | June | 44.8 | 46.3 | 4% | 3% | 94.6 | 98.3 | 4% | 3% | 120.3 | 123.8 | 3% | 3% | 88.7 | 90.5 | 2% | 2% | 29.1 | 22.8 | -22% | -13% | 49.5 | 49.8 | 1% | 0% |
| 64 | July | 7.0 | 7.1 | 2% | 1% | 14.3 | 13.8 | -3% | -1% | 21.3 | 20.4 | -4% | -2% | 15.9 | 14.4 | -10% | -5% | 3.9 | 1.0 | -74% | -21% | 6.7 | 6.1 | -9% | -3% |
| 64 | August | 5.8 | 5.8 | 0% | 0% | 11.9 | 11.4 | -4% | -4% | 17.8 | 16.9 | -5% | -5% | 13.4 | 12.2 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.1 | -9% | -9% |
| 64 | September | 5.3 | 5.4 | 3% | 3% | 10.6 | 10.8 | 2% | 2% | 16.1 | 16.1 | 0% | 0% | 12.5 | 11.9 | -5% | -5% | 3.2 | 0.4 | -87% | -87% | 5.2 | 4.9 | -5% | -5% |
| 64 | October | 7.5 | 7.5 | 0% | 0% | 15.3 | 15.1 | -2% | -2% | 21.8 | 21.1 | -3% | -3% | 17.7 | 18.6 | 5% | 5% | 3.5 | 0.3 | -91% | -91% | 7.3 | 7.0 | -4% | -4% |
| 64 | November | 5.0 | 5.2 | 3% | 3% | 10.2 | 10.6 | 4% | 4% | 15.2 | 15.6 | 2% | 2% | 11.7 | 11.2 | -4% | -4% | 3.0 | 0.3 | -90% | -90% | 5.0 | 5.0 | 1% | 1% |
| 64 | December | 4.5 | 4.5 | 0% | 0% | 9.3 | 9.5 | 3% | 3% | 14.0 | 14.2 | 2% | 2% | 10.6 | 10.0 | -6% | -6% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.7 | 5% | 5% |
| 65 | January | 3.9 | 3.9 | 0% | 0% | 8.3 | 9.4 | 14% | 14% | 12.6 | 13.9 | 10% | 10% | 9.5 | 9.1 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.1 | 5.2 | 27% | 27% |
| 65 | February | 3.2 | 3.5 | 10% | 10% | 6.8 | 7.8 | 15% | 15% | 10.4 | 12.0 | 15% | 15% | 7.9 | 8.4 | 8% | 8% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.1 | 7% | 7% |
| 65 | March | 3.2 | 3.1 | 0% | 0% | 6.9 | 7.2 | 5% | 5% | 10.6 | 11.1 | 5% | 5% | 7.9 | 7.8 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.8 | 7% | 7% |
| 65 | April | 6.0 | 6.2 | 3% | 3% | 12.8 | 13.0 | 2% | 1% | 17.8 | 18.3 | 3% | 2% | 14.8 | 18.5 | 25% | 24% | 2.9 | 0.0 | -100% | -42% | 6.4 | 6.2 | -2% | -1% |
| 65 | May | 73.8 | 73.7 | 0% | 0% | 162.7 | 164.1 | 1% | 1% | 196.0 | 197.1 | 1% | 1% | 134.0 | 138.3 | 3% | 3% | 50.4 | 40.9 | -19% | -19% | 85.5 | 86.7 | 1% | 1% |
| 65 | June | 98.9 | 102.2 | 3% | 3% | 211.4 | 220.6 | 4% | 4% | 264.3 | 274.7 | 4% | 4% | 193.4 | 198.6 | 3% | 3% | 66.9 | 55.8 | -17% | -17% | 112.1 | 114.0 | 2% | 2% |
| 65 | July | 7.1 | 7.2 | 2% | 1% | 14.0 | 13.8 | -2% | -1% | 21.2 | 20.1 | -5% | -3% | 16.0 | 15.0 | -6% | -3% | 3.7 | 0.8 | -78% | -21% | 6.4 | 5.9 | -7% | -2% |
| 65 | August | 5.9 | 5.9 | 0% | 0% | 11.8 | 11.3 | -4% | -4% | 17.8 | 16.8 | -6% | -6% | 13.6 | 12.5 | -8% | -8% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -9% | -9% |
| 65 | September | 23.0 | 23.8 | 3% | 3% | 48.8 | 50.7 | 4% | 4% | 61.4 | 62.8 | 2% | 2% | 46.6 | 50.6 | 9% | 9% | 13.8 | 9.1 | -34% | -34% | 25.4 | 25.6 | 1% | 1% |
| 65 | October | 13.1 | 13.2 | 0% | 0% | 27.1 | 27.0 | 0% | 0% | 35.8 | 35.2 | -2% | -2% | 27.7 | 28.1 | 1% | 1% | 6.9 | 3.3 | -52% | -52% | 13.1 | 13.0 | -1% | -1% |
| 65 | November | 6.0 | 6.2 | 3% | 3% | 12.5 | 13.3 | 7% | 7% | 18.6 | 19.1 | 3% | 3% | 13.6 | 12.8 | -6% | -6% | 3.9 | 0.9 | -77% | -77% | 6.3 | 6.6 | 5% | 5% |
| 65 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.5 | 4% | 4% | 16.6 | 16.8 | 1% | 1% | 12.2 | 11.1 | -9% | -9% | 3.5 | 0.7 | -80% | -80% | 5.4 | 5.8 | 8% | 8% |
| 66 | January | 4.7 | 4.7 | 0% | 0% | 9.7 | 10.5 | 8% | 8% | 14.8 | 15.4 | 4% | 4% | 11.1 | 10.2 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.4 | 15% | 15% |
| 66 | February | 3.8 | 4.2 | 9% | 9% | 7.9 | 9.0 | 14% | 14% | 12.2 | 13.7 | 12% | 12% | 9.2 | 9.5 | 3% | 3% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.5 | 5% | 5% |
| 66 | March | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.4 | 7% | 7% | 12.2 | 12.8 | 5% | 5% | 9.2 | 8.7 | -5% | -5% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.4 | 13% | 13% |
| 66 | April | 13.6 | 14.0 | 3% | 3% | 29.8 | 30.6 | 3% | 3% | 37.6 | 38.2 | 1% | 1% | 28.4 | 34.5 | 22% | 22% | 7.6 | 3.6 | -53% | -53% | 15.7 | 15.6 | -1% | -1% |
| 66 | May | 109.3 | 109.3 | 0% | 0% | 238.0 | 240.4 | 1% | 1% | 293.0 | 295.3 | 1% | 1% | 206.3 | 208.5 | 1% | 1% | 74.8 | 62.7 | -16% | -16% | 124.1 | 126.2 | 2% | 2% |
| 66 | June | 91.4 | 94.5 | 3% | 3% | 194.5 | 203.1 | 4% | 4% | 244.9 | 253.8 | 4% | 4% | 180.9 | 189.5 | 5% | 5% | 61.4 | 50.9 | -17% | -17% | 102.7 | 104.5 | 2% | 2% |
| 66 | July | 7.5 | 7.6 | 2% | 1% | 14.9 | 14.5 | -2% | -1% | 22.4 | 21.2 | -5% | -3% | 17.0 | 15.9 | -6% | -4% | 3.9 | 1.0 | -75% | -21% | 6.8 | 6.3 | -8% | -3% |
| 66 | August | 6.1 | 6.1 | -1% | -1% | 12.3 | 11.8 | -4% | -4% | 18.5 | 17.5 | -5% | -5% | 14.0 | 12.7 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.8 | 5.2 | -10% | -10% |
| 66 | September | 5.2 | 5.3 | 2% | 2% | 10.3 | 10.5 | 2% | 2% | 15.7 | 15.7 | 0% | 0% | 12.2 | 11.4 | -6% | -6% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.8 | -3% | -3% |
| 66 | October | 5.1 | 5.1 | 0% | 0% | 10.2 | 10.0 | -1% | -1% | 15.6 | 15.1 | -3% | -3% | 12.3 | 11.4 | -7% | -7% | 2.9 | 0.2 | -93% | -93% | 4.7 | 4.6 | -3% | -3% |
| 66 | November | 4.4 | 4.5 | 3% | 3% | 8.8 | 9.3 | 6% | 6% | 13.6 | 14.0 | 4% | 4% | 10.6 | 10.2 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.4 | 4% | 4% |
| 66 | December | 4.0 | 4.0 | -1% | -1% | 8.2 | 8.6 | 5% | 5% | 12.8 | 13.1 | 2% | 2% | 9.7 | 9.3 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.3 | 9% | 9% |
| 67 | January | 3.6 | 3.5 | -1% | -1% | 7.4 | 7.9 | 7% | 7% | 11.7 | 12.2 | 4% | 4% | 8.7 | 8.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 13% | 13% |
| 67 | February | 2.9 | 3.1 | 6% | 6% | 6.3 | 7.3 | 15% | 15% | 10.0 | 11.2 | 13% | 13% | 7.5 | 7.9 | 6% | 6% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 13% | 13% |
| 67 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.6 | 6% | 6% | 9.8 | 10.3 | 5% | 5% | 7.2 | 7.3 | 0% | 0% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 10% | 10% |
| 67 | April | 9.0 | 9.3 | 3% | 3% | 19.4 | 20.1 | 4% | 4% | 25.8 | 26.4 | 2% | 2% | 20.6 | 27.2 | 32% | 32% | 3.8 | 0.6 | -84% | -47% | 9.9 | 10.0 | 1% | 1% |
| 67 | May | 78.6 | 78.5 | 0% | 0% | 172.6 | 174.0 | 1% | 1% | 208.6 | 209.7 | 1% | 1% | 143.4 | 146.0 | 2% | 2% | 53.9 | 44.5 | -17% | -17% | 90.4 | 91.8 | 1% | 1% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67 | June | 74.1 | 76.5 | 3% | 3% | 157.8 | 164.3 | 4% | 4% | 197.9 | 204.8 | 3% | 3% | 145.0 | 149.8 | 3% | 3% | 49.5 | 40.6 | -18% | -18% | 83.4 | 84.3 | 1% | 1% |
| 67 | July | 6.9 | 7.1 | 2% | 1% | 13.8 | 13.4 | -3% | -1% | 20.8 | 19.7 | -5% | -3% | 15.8 | 14.7 | -6% | -3% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.8 | -9% | -2% |
| 67 | August | 5.8 | 5.8 | 1% | 1% | 11.5 | 11.2 | -3% | -3% | 17.5 | 16.6 | -5% | -5% | 13.3 | 12.1 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -9% | -9% |
| 67 | September | 5.0 | 5.2 | 3% | 3% | 10.1 | 10.2 | 2% | 2% | 15.4 | 15.3 | -1% | -1% | 12.0 | 11.4 | -5% | -5% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.7 | -3% | -3% |
| 67 | October | 4.8 | 4.8 | 0% | 0% | 9.7 | 9.5 | -1% | -1% | 14.9 | 14.4 | -3% | -3% | 11.7 | 10.9 | -7% | -7% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.4 | -3% | -3% |
| 67 | November | 4.1 | 4.3 | 3% | 3% | 8.4 | 8.7 | 4% | 4% | 13.0 | 13.3 | 2% | 2% | 10.1 | 9.9 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 4.1 | 4.1 | -1% | -1% |
| 67 | December | 3.8 | 3.8 | -1% | -1% | 7.8 | 8.2 | 5% | 5% | 12.2 | 12.6 | 3% | 3% | 9.3 | 8.9 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.2 | 11% | 11% |
| 68 | January | 3.4 | 3.3 | -1% | -1% | 7.1 | 7.5 | 5% | 5% | 11.1 | 11.5 | 4% | 4% | 8.4 | 8.2 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 68 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.6 | 12% | 12% | 9.2 | 10.4 | 13% | 13% | 6.9 | 7.6 | 10% | 10% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.3 | 0% | 0% |
| 68 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.1 | 2% | 2% | 9.4 | 9.7 | 3% | 3% | 7.0 | 7.0 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.2 | 2% | 2% |
| 68 | April | 8.0 | 8.2 | 3% | 3% | 17.2 | 17.4 | 1% | 1% | 23.2 | 23.5 | 1% | 1% | 19.1 | 25.5 | 33% | 33% | 3.1 | 0.1 | -97% | -45% | 8.8 | 8.4 | -4% | -4% |
| 68 | May | 30.6 | 30.5 | 0% | 0% | 66.8 | 66.8 | 0% | 0% | 78.7 | 78.8 | 0% | 0% | 52.6 | 56.7 | 8% | 6% | 19.7 | 14.8 | -25% | -13% | 34.5 | 34.6 | 0% | 0% |
| 68 | June | 20.0 | 20.9 | 4% | 2% | 42.4 | 43.6 | 3% | 1% | 52.4 | 52.9 | 1% | 0% | 37.1 | 39.5 | 7% | 3% | 12.3 | 8.3 | -32% | -8% | 22.0 | 21.6 | -2% | -1% |
| 68 | July | 6.0 | 6.0 | 1% | 0% | 12.5 | 12.0 | -4% | -1% | 18.2 | 17.1 | -6% | -3% | 13.1 | 12.1 | -8% | -4% | 3.5 | 0.8 | -77% | -19% | 6.0 | 5.5 | -9% | -2% |
| 68 | August | 5.1 | 5.0 | -1% | -1% | 10.6 | 10.1 | -4% | -4% | 15.6 | 14.9 | -4% | -4% | 11.6 | 10.7 | -8% | -8% | 3.2 | 0.6 | -81% | -81% | 5.1 | 4.7 | -8% | -8% |
| 68 | September | 6.2 | 6.4 | 4% | 4% | 12.8 | 12.9 | 1% | 1% | 18.2 | 18.2 | 0% | 0% | 14.5 | 15.5 | 7% | 7% | 3.4 | 0.4 | -88% | -88% | 6.4 | 6.0 | -6% | -6% |
| 68 | October | 5.1 | 5.1 | 0% | 0% | 10.6 | 10.5 | -1% | -1% | 15.4 | 15.2 | -1% | -1% | 11.9 | 11.3 | -5% | -5% | 3.1 | 0.4 | -87% | -87% | 5.2 | 5.0 | -3% | -3% |
| 68 | November | 4.2 | 4.3 | 2% | 2% | 8.9 | 9.9 | 12% | 12% | 13.0 | 14.3 | 10% | 10% | 10.0 | 9.9 | -2% | -2% | 2.8 | 0.2 | -93% | -93% | 4.6 | 5.3 | 16% | 16% |
| 68 | December | 3.8 | 3.8 | 0% | 0% | 8.1 | 8.6 | 6% | 6% | 12.0 | 12.7 | 6% | 6% | 9.2 | 8.9 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.5 | 10% | 10% |
| 69 | January | 3.4 | 3.3 | -1% | -1% | 7.4 | 8.2 | 11% | 11% | 10.9 | 12.1 | 11% | 11% | 8.3 | 8.2 | -2% | -2% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.6 | 22% | 22% |
| 69 | February | 2.8 | 3.1 | 10% | 10% | 6.2 | 7.2 | 17% | 17% | 9.1 | 10.9 | 19% | 19% | 6.9 | 7.6 | 11% | 11% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.9 | 10% | 10% |
| 69 | March | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.5 | 7% | 7% | 10.3 | 11.1 | 8% | 8% | 7.7 | 8.0 | 4% | 4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 4.0 | 12% | 12% |
| 69 | April | 46.5 | 47.9 | 3% | 3% | 103.1 | 107.4 | 4% | 4% | 122.8 | 127.6 | 4% | 4% | 82.0 | 91.8 | 12% | 12% | 32.2 | 24.9 | -23% | -23% | 55.8 | 56.8 | 2% | 2% |
| 69 | May | 85.1 | 85.1 | 0% | 0% | 183.4 | 185.0 | 1% | 1% | 226.7 | 228.2 | 1% | 1% | 164.5 | 164.2 | 0% | 0% | 56.2 | 46.5 | -17% | -17% | 94.7 | 96.1 | 2% | 2% |
| 69 | June | 122.1 | 126.3 | 3% | 3% | 260.3 | 271.6 | 4% | 4% | 326.8 | 338.9 | 4% | 4% | 242.3 | 247.8 | 2% | 2% | 82.4 | 69.3 | -16% | -16% | 137.8 | 139.9 | 2% | 2% |
| 69 | July | 7.5 | 7.6 | 2% | 1% | 14.7 | 14.4 | -1% | -1% | 22.1 | 21.0 | -5% | -3% | 16.8 | 15.9 | -6% | -3% | 3.8 | 0.9 | -76% | -21% | 6.7 | 6.2 | -7% | -2% |
| 69 | August | 6.1 | 6.1 | 0% | 0% | 12.2 | 11.9 | -3% | -3% | 18.3 | 17.4 | -5% | -5% | 14.0 | 12.7 | -9% | -9% | 3.4 | 0.7 | -80% | -80% | 5.7 | 5.3 | -7% | -7% |
| 69 | September | 5.2 | 5.3 | 2% | 2% | 10.3 | 10.3 | 1% | 1% | 15.6 | 15.4 | -1% | -1% | 12.2 | 11.4 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.9 | 4.6 | -5% | -5% |
| 69 | October | 4.7 | 4.6 | 0% | 0% | 9.3 | 9.3 | -1% | -1% | 14.5 | 14.1 | -3% | -3% | 11.3 | 10.4 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.2 | -4% | -4% |
| 69 | November | 4.0 | 4.2 | 3% | 3% | 8.1 | 8.6 | 5% | 5% | 12.8 | 13.1 | 3% | 3% | 10.0 | 9.6 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 69 | December | 3.8 | 3.7 | -1% | -1% | 7.7 | 8.0 | 4% | 4% | 12.2 | 12.3 | 1% | 1% | 9.3 | 8.8 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.9 | 5% | 5% |
| 70 | January | 3.3 | 3.3 | -1% | -1% | 7.0 | 7.4 | 6% | 6% | 11.1 | 11.5 | 3% | 3% | 8.4 | 8.1 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 70 | February | 2.7 | 2.9 | 10% | 10% | 5.8 | 6.9 | 19% | 19% | 9.2 | 10.7 | 17% | 17% | 6.9 | 7.5 | 9% | 9% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 70 | March | 2.7 | 2.6 | -1% | -1% | 5.9 | 6.2 | 5% | 5% | 9.4 | 9.8 | 5% | 5% | 6.9 | 6.9 | 0% | 0% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 9% | 9% |
| 70 | April | 4.8 | 4.9 | 3% | 2% | 10.1 | 10.5 | 4% | 2% | 14.7 | 15.2 | 3% | 2% | 12.2 | 15.7 | 29% | 22% | 2.3 | 0.0 | -100% | -35% | 5.1 | 5.1 | 0% | 0% |
| 70 | May | 37.6 | 37.6 | 0% | 0% | 83.1 | 83.3 | 0% | 0% | 98.8 | 98.8 | 0% | 0% | 66.3 | 72.2 | 9% | 9% | 24.1 | 18.3 | -24% | -15% | 43.4 | 43.6 | 1% | 0% |
| 70 | June | 54.5 | 56.4 | 3% | 3% | 117.9 | 122.5 | 4% | 4% | 145.3 | 149.8 | 3% | 3% | 103.6 | 107.8 | 4% | 4% | 37.1 | 29.9 | -19% | -15% | 63.0 | 63.5 | 1% | 1% |
| 70 | July | 6.4 | 6.5 | 2% | 1% | 12.9 | 12.5 | -3% | -1% | 19.4 | 18.3 | -5% | -2% | 14.3 | 13.2 | -8% | -4% | 3.4 | 0.7 | -79% | -19% | 6.0 | 5.4 | -9% | -3% |
| 70 | August | 5.6 | 5.6 | 0% | 0% | 11.2 | 11.0 | -2% | -2% | 16.9 | 16.2 | -4% | -4% | 12.9 | 11.8 | -8% | -8% | 3.2 | 0.5 | -84% | -84% | 5.2 | 5.0 | -4% | -4% |
| 70 | September | 4.7 | 4.8 | 3% | 3% | 9.5 | 9.5 | 1% | 1% | 14.5 | 14.4 | -1% | -1% | 11.2 | 10.6 | -5% | -5% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.4 | -5% | -5% |
| 70 | October | 22.4 | 22.3 | 0% | 0% | 48.4 | 48.6 | 1% | 1% | 59.4 | 59.1 | -1% | -1% | 44.3 | 48.0 | 8% | 8% | 13.2 | 8.4 | -36% | -36% | 24.6 | 25.0 | 1% | 1% |
| 70 | November | 5.5 | 5.7 | 4% | 4% | 11.3 | 11.8 | 5% | 5% | 16.8 | 17.3 | 2% | 2% | 12.5 | 11.8 | -6% | -6% | 3.2 | 0.6 | -81% | -81% | 5.5 | 5.7 | 2% | 2% |
| 70 | December | 4.9 | 4.9 | -1% | -1% | 10.1 | 10.3 | 3% | 3% | 15.2 | 15.3 | 1% | 1% | 11.3 | 10.3 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 5.1 | 5% | 5% |
| 71 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.2 | 4% | 4% | 13.6 | 13.9 | 2% | 2% | 10.3 | 9.5 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.6 | 7% | 7% |
| 71 | February | 3.5 | 3.8 | 7% | 7% | 7.4 | 8.3 | 12% | 12% | 11.4 | 12.7 | 12% | 12% | 8.8 | 8.8 | 0% | 0% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.2 | 8% | 8% |
| 71 | March | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.4 | 4% | 4% | 11.1 | 11.6 | 4% | 4% | 8.5 | 8.1 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 6% | 6% |
| 71 | April | 19.0 | 19.5 | 3% | 3% | 41.8 | 43.2 | 3% | 3% | 50.5 | 51.9 | 3% | 3% | 36.9 | 44.0 | 19% | 19% | 11.6 | 7.1 | -39% | -39% | 22.2 | 22.3 | 0% | 0% |
| 71 | May | 60.0 | 60.1 | 0% | 0% | 130.7 | 131.8 | 1% | 1% | 160.0 | 160.5 | 0% | 0% | 110.8 | 111.8 | 1% | 1% | 40.7 | 33.0 | -19% | -19% | 68.0 | 68.8 | 1% | 1% |
| 71 | June | 38.9 | 40.2 | 4% | 3% | 82.5 | 85.6 | 4% | 3% | 103.9 | 107.6 | 4% | 3% | 76.4 | 78.8 | 3% | 3% | 25.4 | 19.6 | -23% | -12% | 43.2 | 43.5 | 1% | 0% |
| 71 | July | 6.7 | 6.7 | 1% | 1% | 13.6 | 13.2 | -3% | -1% | 20.3 | 19.5 | -4% | -2% | 15.0 | 13.7 | -9% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.9 | -8% | -2% |
| 71 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.2 | -2% | -2% | 17.1 | 16.5 | -3% | -3% | 12.9 | 11.7 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.4 | 5.2 | -4% | -4% |
| 71 | September | 4.8 | 4.9 | 2% | 2% | 9.7 | 9.9 | 2% | 2% | 14.8 | 14.9 | 1% | 1% | 11.4 | 10.8 | -6% | -6% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.6 | -4% | -4% |
| 71 | October | 4.4 | 4.4 | 0% | 0% | 8.9 | 8.8 | -1% | -1% | 13.7 | 13.6 | -1% | -1% | 10.7 | 9.9 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -3% | -3% |
| 71 | November | 3.8 | 3.9 | 2% | 2% | 7.8 | 8.0 | 3% | 3% | 12.1 | 12.5 | 4% | 4% | 9.4 | 9.2 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 71 | December | 3.5 | 3.5 | -1% | -1% | 7.3 | 7.3 | 0% | 0% | 11.4 | 11.5 | 1% | 1% | 8.7 | 8.4 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.5 | -2% | -2% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 72 | January | 3.1 | 3.0 | -1% | -1% | 6.6 | 6.7 | 1% | 1% | 10.3 | 10.6 | 3% | 3% | 7.9 | 7.8 | -2% | -2% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.3 | 0% | 0% |
| 72 | February | 2.5 | 2.7 | 9% | 9% | 5.5 | 6.1 | 11% | 11% | 8.6 | 9.8 | 14% | 14% | 6.5 | 7.2 | 10% | 10% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.1 | -1% | -1% |
| 72 | March | 2.5 | 2.5 | 0% | 0% | 5.7 | 6.0 | 6% | 6% | 8.8 | 9.4 | 8% | 8% | 6.5 | 6.6 | 2% | 2% | 1.7 | 0.0 | -100% | -100% | 3.0 | 3.3 | 10% | 10% |
| 72 | April | 3.5 | 3.6 | 3% | 2% | 7.7 | 7.7 | 0% | 0% | 11.3 | 11.6 | 3% | 2% | 8.9 | 10.9 | 23% | 13% | 2.0 | 0.0 | -100% | -30% | 4.0 | 3.7 | -6% | -2% |
| 72 | May | 9.4 | 9.4 | 0% | 0% | 20.4 | 20.0 | -2% | -1% | 26.5 | 25.9 | -2% | -1% | 20.5 | 26.3 | 28% | 9% | 3.8 | 0.8 | -79% | -8% | 10.2 | 9.8 | -4% | -1% |
| 72 | June | 4.0 | 4.1 | 3% | 0% | 8.1 | 8.2 | 0% | 0% | 11.5 | 11.7 | 2% | 0% | 8.5 | 8.6 | 1% | 0% | 2.0 | 0.0 | -100% | -4% | 4.0 | 3.7 | -7% | 0% |
| 72 | July | 3.7 | 3.7 | 0% | 0% | 7.8 | 7.4 | -5% | -1% | 10.9 | 10.7 | -2% | -1% | 8.0 | 7.7 | -4% | -1% | 2.3 | 0.1 | -96% | -15% | 3.9 | 3.5 | -10% | -2% |
| 72 | August | 3.3 | 3.3 | 0% | 0% | 7.1 | 6.9 | -4% | -4% | 10.0 | 10.0 | 0% | 0% | 7.4 | 7.2 | -2% | -2% | 2.2 | 0.1 | -95% | -95% | 3.6 | 3.3 | -9% | -9% |
| 72 | September | 13.4 | 13.8 | 3% | 3% | 29.7 | 30.5 | 3% | 3% | 36.2 | 36.9 | 2% | 2% | 26.1 | 32.5 | 24% | 24% | 7.8 | 3.9 | -50% | -50% | 15.7 | 15.7 | 0% | 0% |
| 72 | October | 5.7 | 5.8 | 1% | 1% | 12.0 | 11.7 | -2% | -2% | 16.1 | 15.8 | -2% | -2% | 12.1 | 12.2 | 1% | 1% | 3.1 | 0.3 | -90% | -90% | 5.8 | 5.5 | -4% | -4% |
| 72 | November | 4.5 | 4.7 | 4% | 4% | 9.5 | 10.1 | 6% | 6% | 12.8 | 13.6 | 6% | 6% | 9.5 | 9.2 | -3% | -3% | 3.0 | 0.4 | -86% | -86% | 4.8 | 5.1 | 5% | 5% |
| 72 | December | 4.0 | 4.0 | 0% | 0% | 8.5 | 9.1 | 7% | 7% | 11.8 | 12.5 | 6% | 6% | 8.8 | 8.2 | -6% | -6% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.8 | 11% | 11% |
| 73 | January | 3.5 | 3.5 | 0% | 0% | 7.6 | 8.0 | 5% | 5% | 10.7 | 11.3 | 5% | 5% | 7.9 | 7.6 | -4% | -4% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.3 | 9% | 9% |
| 73 | February | 2.9 | 3.2 | 11% | 11% | 6.3 | 7.3 | 16% | 16% | 8.9 | 10.5 | 18% | 18% | 6.5 | 7.0 | 9% | 9% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 9% | 9% |
| 73 | March | 4.0 | 4.0 | 0% | 0% | 8.5 | 8.5 | -1% | -1% | 11.9 | 12.0 | 0% | 0% | 9.1 | 10.1 | 10% | 10% | 2.4 | 0.0 | -100% | -100% | 4.2 | 4.1 | -2% | -2% |
| 73 | April | 24.5 | 25.2 | 3% | 3% | 53.8 | 55.5 | 3% | 3% | 62.8 | 65.1 | 4% | 4% | 42.6 | 50.3 | 18% | 18% | 15.6 | 10.5 | -33% | -33% | 28.7 | 28.7 | 0% | 0% |
| 73 | May | 52.7 | 52.8 | 0% | 0% | 114.4 | 115.3 | 1% | 1% | 138.9 | 138.3 | 0% | 0% | 94.4 | 95.5 | 1% | 1% | 35.3 | 28.3 | -20% | -19% | 59.3 | 60.0 | 1% | 1% |
| 73 | June | 46.7 | 48.3 | 4% | 3% | 99.7 | 103.4 | 4% | 3% | 124.3 | 128.6 | 4% | 3% | 91.0 | 93.7 | 3% | 3% | 31.1 | 24.5 | -21% | -13% | 52.6 | 52.8 | 0% | 0% |
| 73 | July | 6.9 | 7.0 | 1% | 1% | 14.2 | 13.7 | -3% | -1% | 20.7 | 19.8 | -4% | -2% | 15.5 | 14.1 | -9% | -5% | 3.9 | 0.9 | -77% | -21% | 6.7 | 6.2 | -8% | -2% |
| 73 | August | 5.7 | 5.8 | 0% | 0% | 11.8 | 11.5 | -2% | -2% | 17.5 | 16.8 | -4% | -4% | 13.2 | 12.0 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.3 | -6% | -6% |
| 73 | September | 5.1 | 5.2 | 2% | 2% | 10.4 | 10.5 | 1% | 1% | 15.6 | 15.5 | -1% | -1% | 12.1 | 11.4 | -5% | -5% | 3.1 | 0.4 | -87% | -87% | 5.1 | 4.9 | -4% | -4% |
| 73 | October | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.3 | -1% | -1% | 14.4 | 14.0 | -2% | -2% | 11.2 | 10.3 | -8% | -8% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.3 | -4% | -4% |
| 73 | November | 4.0 | 4.1 | 2% | 2% | 8.2 | 8.5 | 4% | 4% | 12.6 | 12.9 | 3% | 3% | 9.7 | 9.4 | -3% | -3% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.1 | 0% | 0% |
| 73 | December | 3.7 | 3.6 | -1% | -1% | 7.7 | 7.8 | 2% | 2% | 11.8 | 12.1 | 2% | 2% | 9.1 | 8.6 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 4% | 4% |
| 74 | January | 3.2 | 3.2 | -1% | -1% | 6.9 | 7.1 | 2% | 2% | 10.8 | 11.0 | 3% | 3% | 8.2 | 8.0 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 2% | 2% |
| 74 | February | 2.6 | 2.9 | 9% | 9% | 5.8 | 6.9 | 19% | 19% | 8.9 | 10.6 | 18% | 18% | 6.8 | 7.4 | 9% | 9% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 74 | March | 2.6 | 2.6 | -1% | -1% | 5.9 | 6.0 | 2% | 2% | 9.1 | 9.5 | 4% | 4% | 6.7 | 6.8 | 1% | 1% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.2 | 3% | 3% |
| 74 | April | 6.3 | 6.5 | 3% | 3% | 13.6 | 14.1 | 4% | 3% | 18.8 | 19.4 | 3% | 3% | 16.2 | 21.3 | 32% | 32% | 2.8 | 0.0 | -100% | -41% | 6.8 | 6.9 | 1% | 0% |
| 74 | May | 24.8 | 24.7 | 0% | 0% | 54.0 | 53.9 | 0% | 0% | 63.2 | 63.3 | 0% | 0% | 43.0 | 47.9 | 11% | 7% | 14.9 | 10.4 | -30% | -12% | 27.6 | 27.7 | 0% | 0% |
| 74 | June | 15.5 | 16.1 | 4% | 1% | 32.8 | 33.4 | 2% | 1% | 40.0 | 40.3 | 1% | 0% | 28.8 | 31.1 | 8% | 3% | 9.1 | 5.4 | -40% | -8% | 16.8 | 16.3 | -3% | -1% |
| 74 | July | 5.7 | 5.8 | 1% | 1% | 11.9 | 11.5 | -4% | -1% | 17.1 | 16.1 | -6% | -2% | 12.4 | 11.3 | -9% | -4% | 3.4 | 0.8 | -77% | -19% | 5.8 | 5.2 | -9% | -2% |
| 74 | August | 4.8 | 4.8 | 0% | 0% | 10.1 | 9.8 | -3% | -3% | 14.7 | 14.3 | -3% | -3% | 10.9 | 10.0 | -9% | -9% | 3.1 | 0.5 | -84% | -84% | 4.9 | 4.6 | -7% | -7% |
| 74 | September | 4.3 | 4.2 | -1% | -1% | 8.8 | 8.7 | -2% | -2% | 13.0 | 12.9 | 0% | 0% | 9.7 | 9.2 | -5% | -5% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.1 | -8% | -8% |
| 74 | October | 8.2 | 8.2 | 0% | 0% | 17.4 | 17.2 | -1% | -1% | 23.4 | 23.0 | -2% | -2% | 19.0 | 21.6 | 14% | 14% | 3.7 | 0.4 | -89% | -89% | 8.5 | 8.3 | -3% | -3% |
| 74 | November | 4.5 | 4.6 | 3% | 3% | 9.5 | 9.9 | 4% | 4% | 13.6 | 14.2 | 4% | 4% | 10.3 | 9.8 | -4% | -4% | 2.9 | 0.3 | -90% | -90% | 4.9 | 4.9 | 1% | 1% |
| 74 | December | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.8 | 1% | 1% | 12.4 | 12.8 | 3% | 3% | 9.3 | 8.6 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.5 | 2% | 2% |
| 75 | January | 3.6 | 3.5 | 0% | 0% | 7.8 | 8.2 | 6% | 6% | 11.2 | 12.0 | 7% | 7% | 8.4 | 8.0 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.4 | 11% | 11% |
| 75 | February | 3.0 | 3.2 | 7% | 7% | 6.6 | 7.4 | 13% | 13% | 9.6 | 11.0 | 14% | 14% | 7.1 | 7.4 | 4% | 4% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.0 | 8% | 8% |
| 75 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.9 | 5% | 5% | 9.5 | 10.2 | 7% | 7% | 6.9 | 6.8 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 75 | April | 24.6 | 25.3 | 3% | 3% | 54.2 | 56.3 | 4% | 4% | 63.8 | 66.5 | 4% | 4% | 43.7 | 52.0 | 19% | 19% | 16.1 | 11.0 | -32% | -32% | 29.0 | 29.4 | 1% | 1% |
| 75 | May | 62.6 | 62.7 | 0% | 0% | 136.4 | 137.7 | 1% | 1% | 166.4 | 166.5 | 0% | 0% | 114.3 | 115.3 | 1% | 1% | 42.3 | 34.5 | -18% | -18% | 71.0 | 72.1 | 2% | 2% |
| 75 | June | 36.4 | 37.7 | 4% | 3% | 76.9 | 79.7 | 4% | 2% | 96.5 | 99.8 | 3% | 2% | 71.1 | 73.3 | 3% | 3% | 23.4 | 17.9 | -24% | -11% | 40.1 | 40.3 | 0% | 0% |
| 75 | July | 6.6 | 6.7 | 1% | 0% | 13.5 | 13.1 | -3% | -1% | 20.0 | 19.1 | -4% | -2% | 14.9 | 13.4 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 5.9 | -8% | -2% |
| 75 | August | 5.5 | 5.5 | 0% | 0% | 11.3 | 11.0 | -3% | -3% | 16.9 | 16.2 | -4% | -4% | 12.8 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.0 | -7% | -7% |
| 75 | September | 7.6 | 7.8 | 3% | 3% | 15.6 | 15.9 | 2% | 2% | 22.1 | 21.9 | -1% | -1% | 17.9 | 19.3 | 8% | 8% | 3.7 | 0.4 | -89% | -89% | 7.7 | 7.4 | -3% | -3% |
| 75 | October | 5.2 | 5.2 | -1% | -1% | 10.7 | 10.6 | -1% | -1% | 16.0 | 15.6 | -2% | -2% | 12.2 | 11.1 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.0 | -1% | -1% |
| 75 | November | 4.4 | 4.5 | 4% | 4% | 9.0 | 9.6 | 6% | 6% | 13.6 | 14.2 | 5% | 5% | 10.4 | 9.8 | -6% | -6% | 2.8 | 0.3 | -89% | -89% | 4.6 | 4.7 | 3% | 3% |
| 75 | December | 4.0 | 4.0 | -1% | -1% | 8.4 | 8.8 | 5% | 5% | 12.7 | 13.2 | 4% | 4% | 9.7 | 9.0 | -7% | -7% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.5 | 12% | 12% |
| 76 | January | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.6 | 2% | 2% | 11.5 | 11.7 | 3% | 3% | 8.7 | 8.2 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 2% | 2% |
| 76 | February | 2.8 | 3.1 | 10% | 10% | 6.2 | 7.2 | 16% | 16% | 9.5 | 11.0 | 17% | 17% | 7.2 | 7.7 | 7% | 7% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 8% | 8% |
| 76 | March | 3.2 | 3.2 | -1% | -1% | 7.0 | 7.0 | 0% | 0% | 10.5 | 10.8 | 2% | 2% | 8.0 | 8.0 | 1% | 1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | -1% | -1% |
| 76 | April | 21.8 | 22.4 | 3% | 3% | 48.3 | 49.8 | 3% | 3% | 57.5 | 59.3 | 3% | 3% | 40.6 | 49.0 | 21% | 21% | 13.6 | 8.7 | -36% | -36% | 25.8 | 25.9 | 0% | 0% |
| 76 | May | 55.6 | 55.7 | 0% | 0% | 121.0 | 122.0 | 1% | 1% | 147.7 | 147.6 | 0% | 0% | 101.5 | 102.7 | 1% | 1% | 37.3 | 30.1 | -19% | -19% | 62.8 | 63.6 | 1% | 1% |
| 76 | June | 50.5 | 52.3 | 4% | 4% | 107.8 | 112.2 | 4% | 4% | 135.0 | 140.3 | 4% | 4% | 99.0 | 101.7 | 3% | 3% | 33.6 | 26.8 | -20% | -14% | 56.9 | 57.5 | 1% | 1% |
| 76 | July | 6.8 | 6.9 | 1% | 1% | 13.9 | 13.5 | -3% | -1% | 20.6 | 19.8 | -4% | -2% | 15.4 | 13.9 | -9% | -5% | 3.8 | 0.9 | -76% | -21% | 6.5 | 6.0 | -7% | -2% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 76 | August | 5.7 | 5.7 | 0% | 0% | 11.6 | 11.2 | -4% | -4% | 17.4 | 16.6 | -5% | -5% | 13.2 | 11.8 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.0 | -9% | -9% |
| 76 | September | 4.8 | 5.0 | 3% | 3% | 9.8 | 9.9 | 2% | 2% | 14.9 | 14.9 | 0% | 0% | 11.5 | 10.7 | -7% | -7% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.6 | -4% | -4% |
| 76 | October | 6.8 | 6.8 | 0% | 0% | 14.0 | 13.7 | -2% | -2% | 20.1 | 19.4 | -4% | -4% | 16.4 | 17.1 | 5% | 5% | 3.3 | 0.2 | -94% | -94% | 6.6 | 6.3 | -4% | -4% |
| 76 | November | 5.0 | 5.1 | 3% | 3% | 10.1 | 10.9 | 8% | 8% | 15.0 | 15.8 | 5% | 5% | 11.7 | 11.2 | -4% | -4% | 2.9 | 0.2 | -93% | -93% | 4.9 | 5.4 | 9% | 9% |
| 76 | December | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.4 | 4% | 4% | 13.6 | 14.0 | 3% | 3% | 10.4 | 9.7 | -7% | -7% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.7 | 8% | 8% |
| 77 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.5 | 6% | 6% | 12.2 | 12.8 | 5% | 5% | 9.3 | 8.8 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.4 | 11% | 11% |
| 77 | February | 3.1 | 3.4 | 10% | 10% | 6.6 | 7.9 | 20% | 20% | 10.0 | 11.9 | 19% | 19% | 7.6 | 8.1 | 7% | 7% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.2 | 14% | 14% |
| 77 | March | 3.0 | 3.0 | 0% | 0% | 6.7 | 7.1 | 6% | 6% | 10.2 | 10.9 | 7% | 7% | 7.7 | 7.5 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 10% | 10% |
| 77 | April | 11.9 | 12.2 | 3% | 3% | 26.2 | 27.1 | 4% | 4% | 33.1 | 34.0 | 3% | 3% | 25.0 | 32.0 | 28% | 28% | 6.2 | 2.4 | -61% | -56% | 13.7 | 13.9 | 2% | 2% |
| 77 | May | 83.7 | 83.6 | 0% | 0% | 182.9 | 184.6 | 1% | 1% | 221.7 | 223.5 | 1% | 1% | 153.3 | 154.8 | 1% | 1% | 57.3 | 47.5 | -17% | -17% | 95.6 | 97.1 | 2% | 2% |
| 77 | June | 112.5 | 116.3 | 3% | 3% | 240.4 | 251.0 | 4% | 4% | 301.0 | 312.7 | 4% | 4% | 221.8 | 224.6 | 1% | 1% | 76.2 | 63.9 | -16% | -16% | 127.4 | 129.6 | 2% | 2% |
| 77 | July | 10.2 | 10.3 | 2% | 1% | 20.3 | 20.1 | -1% | -1% | 29.0 | 27.8 | -4% | -3% | 23.3 | 22.4 | -4% | -3% | 4.8 | 1.4 | -71% | -24% | 9.5 | 9.0 | -5% | -2% |
| 77 | August | 6.7 | 6.8 | 0% | 0% | 13.6 | 13.1 | -3% | -3% | 20.0 | 19.0 | -5% | -5% | 15.2 | 13.7 | -10% | -10% | 3.9 | 0.9 | -77% | -77% | 6.4 | 5.8 | -9% | -9% |
| 77 | September | 8.4 | 8.7 | 3% | 3% | 17.4 | 17.7 | 2% | 2% | 24.4 | 24.2 | -1% | -1% | 20.1 | 21.1 | 5% | 5% | 4.3 | 0.9 | -79% | -79% | 8.6 | 8.3 | -3% | -3% |
| 77 | October | 32.0 | 32.0 | 0% | 0% | 67.4 | 68.1 | 1% | 1% | 84.4 | 84.2 | 0% | 0% | 60.5 | 61.8 | 2% | 2% | 19.8 | 14.4 | -27% | -27% | 33.9 | 34.5 | 2% | 2% |
| 77 | November | 6.5 | 6.7 | 4% | 4% | 13.5 | 14.0 | 4% | 4% | 19.8 | 20.2 | 2% | 2% | 14.4 | 13.6 | -6% | -6% | 4.1 | 1.1 | -73% | -73% | 6.8 | 6.7 | 0% | 0% |
| 77 | December | 5.6 | 5.6 | 0% | 0% | 11.7 | 12.1 | 3% | 3% | 17.5 | 17.5 | 0% | 0% | 13.0 | 11.8 | -9% | -9% | 3.6 | 0.7 | -81% | -81% | 5.7 | 6.0 | 5% | 5% |
| 78 | January | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.5 | 3% | 3% | 15.5 | 15.6 | 1% | 1% | 11.7 | 10.7 | -9% | -9% | 3.2 | 0.4 | -87% | -87% | 5.0 | 5.2 | 5% | 5% |
| 78 | February | 4.0 | 4.4 | 11% | 11% | 8.3 | 9.6 | 16% | 16% | 12.8 | 14.4 | 13% | 13% | 9.7 | 9.9 | 2% | 2% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.9 | 9% | 9% |
| 78 | March | 3.9 | 3.9 | 0% | 0% | 8.2 | 8.8 | 7% | 7% | 12.8 | 13.4 | 4% | 4% | 9.7 | 9.1 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.5 | 12% | 12% |
| 78 | April | 6.9 | 7.1 | 3% | 3% | 14.5 | 14.8 | 2% | 2% | 20.3 | 20.7 | 2% | 1% | 16.8 | 19.9 | 18% | 18% | 3.2 | 0.0 | -100% | -47% | 7.2 | 7.1 | -2% | -1% |
| 78 | May | 68.2 | 68.1 | 0% | 0% | 150.0 | 151.1 | 1% | 1% | 182.3 | 182.8 | 0% | 0% | 126.0 | 128.9 | 2% | 2% | 46.7 | 37.7 | -19% | -19% | 78.6 | 79.7 | 1% | 1% |
| 78 | June | 76.3 | 78.8 | 3% | 3% | 163.3 | 170.0 | 4% | 4% | 204.9 | 212.6 | 4% | 4% | 149.6 | 152.8 | 2% | 2% | 51.6 | 42.4 | -18% | -18% | 86.6 | 87.7 | 1% | 1% |
| 78 | July | 19.0 | 19.1 | 1% | 1% | 38.8 | 38.7 | 0% | 0% | 51.5 | 50.4 | -2% | -2% | 39.3 | 38.7 | -2% | -2% | 10.5 | 6.3 | -40% | -30% | 18.9 | 18.5 | -2% | -1% |
| 78 | August | 6.9 | 7.0 | 1% | 1% | 14.3 | 14.0 | -2% | -2% | 21.2 | 20.4 | -4% | -4% | 15.8 | 14.3 | -9% | -9% | 4.1 | 1.1 | -73% | -73% | 6.9 | 6.5 | -6% | -6% |
| 78 | September | 5.9 | 6.1 | 3% | 3% | 12.2 | 12.4 | 2% | 2% | 18.1 | 18.1 | 0% | 0% | 13.6 | 12.9 | -5% | -5% | 3.7 | 0.7 | -81% | -81% | 6.0 | 5.8 | -3% | -3% |
| 78 | October | 6.4 | 6.4 | 1% | 1% | 13.1 | 12.9 | -2% | -2% | 19.2 | 18.5 | -3% | -3% | 14.9 | 14.5 | -3% | -3% | 3.6 | 0.5 | -86% | -86% | 6.2 | 6.0 | -4% | -4% |
| 78 | November | 5.2 | 5.3 | 3% | 3% | 10.5 | 11.3 | 8% | 8% | 15.8 | 16.5 | 5% | 5% | 12.1 | 11.6 | -4% | -4% | 3.2 | 0.4 | -87% | -87% | 5.2 | 5.7 | 9% | 9% |
| 78 | December | 4.6 | 4.6 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 14.5 | 14.8 | 2% | 2% | 11.1 | 10.4 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.6 | 4.9 | 7% | 7% |
| 79 | January | 4.1 | 4.1 | -1% | -1% | 8.5 | 8.7 | 2% | 2% | 13.1 | 13.3 | 1% | 1% | 9.9 | 9.5 | -5% | -5% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.3 | 2% | 2% |
| 79 | February | 3.4 | 3.6 | 6% | 6% | 7.3 | 8.0 | 10% | 10% | 11.2 | 12.3 | 10% | 10% | 8.4 | 8.7 | 4% | 4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.1 | 5% | 5% |
| 79 | March | 3.3 | 3.3 | -1% | -1% | 7.1 | 7.5 | 6% | 6% | 11.0 | 11.6 | 5% | 5% | 8.3 | 8.1 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 9% | 9% |
| 79 | April | 9.0 | 9.3 | 3% | 3% | 19.3 | 19.8 | 3% | 2% | 25.6 | 26.1 | 2% | 2% | 20.5 | 26.2 | 28% | 28% | 3.9 | 0.5 | -87% | -50% | 9.8 | 9.7 | -1% | -1% |
| 79 | May | 69.3 | 69.2 | 0% | 0% | 152.2 | 153.8 | 1% | 1% | 183.9 | 184.9 | 1% | 1% | 125.6 | 128.3 | 2% | 2% | 47.6 | 38.9 | -18% | -18% | 79.8 | 81.2 | 2% | 2% |
| 79 | June | 78.3 | 80.9 | 3% | 3% | 167.4 | 174.5 | 4% | 4% | 209.6 | 217.7 | 4% | 4% | 153.2 | 156.5 | 2% | 2% | 52.8 | 43.4 | -18% | -18% | 88.7 | 90.1 | 2% | 2% |
| 79 | July | 11.8 | 12.0 | 2% | 1% | 23.6 | 23.3 | -1% | -1% | 32.7 | 31.5 | -4% | -3% | 26.1 | 25.5 | -3% | -2% | 5.6 | 2.1 | -62% | -25% | 11.1 | 10.6 | -5% | -2% |
| 79 | August | 6.8 | 6.8 | 0% | 0% | 13.8 | 13.4 | -3% | -3% | 20.3 | 19.4 | -5% | -5% | 15.3 | 13.9 | -9% | -9% | 4.0 | 1.1 | -73% | -73% | 6.6 | 6.1 | -8% | -8% |
| 79 | September | 7.0 | 7.3 | 4% | 4% | 14.4 | 14.6 | 1% | 1% | 20.7 | 20.5 | -1% | -1% | 16.1 | 16.4 | 2% | 2% | 4.0 | 0.9 | -78% | -78% | 7.1 | 6.8 | -5% | -5% |
| 79 | October | 9.3 | 9.3 | 0% | 0% | 19.4 | 19.3 | -1% | -1% | 26.7 | 25.9 | -3% | -3% | 21.9 | 22.5 | 3% | 3% | 4.6 | 1.0 | -78% | -78% | 9.4 | 9.3 | -1% | -1% |
| 79 | November | 5.8 | 6.0 | 2% | 2% | 12.0 | 12.7 | 6% | 6% | 17.5 | 18.1 | 4% | 4% | 13.1 | 12.4 | -5% | -5% | 3.7 | 0.8 | -78% | -78% | 6.0 | 6.3 | 5% | 5% |
| 79 | December | 5.2 | 5.3 | 0% | 0% | 10.8 | 11.1 | 2% | 2% | 16.0 | 16.1 | 1% | 1% | 11.8 | 11.0 | -7% | -7% | 3.4 | 0.5 | -85% | -85% | 5.3 | 5.4 | 3% | 3% |
| 80 | January | 4.6 | 4.6 | 0% | 0% | 9.6 | 9.6 | -1% | -1% | 14.4 | 14.3 | -1% | -1% | 10.8 | 10.1 | -6% | -6% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.6 | -3% | -3% |
| 80 | February | 3.7 | 4.1 | 10% | 10% | 7.8 | 8.8 | 13% | 13% | 11.8 | 13.4 | 13% | 13% | 8.8 | 9.3 | 6% | 6% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.4 | 4% | 4% |
| 80 | March | 3.6 | 3.6 | 0% | 0% | 7.9 | 8.1 | 3% | 3% | 11.9 | 12.3 | 3% | 3% | 8.9 | 8.6 | -3% | -3% | 2.5 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |
| 80 | April | 16.3 | 16.7 | 3% | 3% | 35.7 | 36.5 | 2% | 2% | 43.8 | 44.4 | 1% | 1% | 31.8 | 38.8 | 22% | 22% | 9.6 | 5.2 | -46% | -46% | 18.9 | 18.6 | -1% | -1% |
| 80 | May | 35.0 | 35.1 | 0% | 0% | 75.5 | 75.7 | 0% | 0% | 92.0 | 91.9 | 0% | 0% | 61.4 | 63.3 | 3% | 3% | 22.9 | 17.4 | -24% | -15% | 38.7 | 38.8 | 0% | 0% |
| 80 | June | 8.2 | 8.6 | 4% | 1% | 17.3 | 17.3 | 0% | 0% | 23.9 | 23.6 | -1% | 0% | 18.2 | 18.9 | 4% | 1% | 4.4 | 1.1 | -75% | -7% | 8.7 | 8.0 | -8% | -1% |
| 80 | July | 6.0 | 6.0 | 0% | 0% | 12.6 | 12.1 | -4% | -1% | 18.2 | 17.3 | -5% | -2% | 13.4 | 12.4 | -8% | -3% | 3.8 | 0.9 | -76% | -21% | 6.2 | 5.6 | -10% | -3% |
| 80 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.4 | -3% | -3% | 15.8 | 15.3 | -3% | -3% | 11.8 | 10.9 | -7% | -7% | 3.3 | 0.5 | -85% | -85% | 5.2 | 4.9 | -7% | -7% |
| 80 | September | 28.2 | 29.1 | 3% | 3% | 61.2 | 63.7 | 4% | 4% | 74.8 | 77.1 | 3% | 3% | 53.0 | 58.2 | 10% | 10% | 18.4 | 13.0 | -29% | -29% | 32.5 | 33.0 | 1% | 1% |
| 80 | October | 12.7 | 12.8 | 0% | 0% | 26.5 | 26.5 | 0% | 0% | 34.3 | 33.8 | -2% | -2% | 26.3 | 26.7 | 2% | 2% | 6.8 | 3.2 | -53% | -53% | 12.9 | 12.8 | -1% | -1% |
| 80 | November | 6.0 | 6.2 | 4% | 4% | 12.6 | 13.0 | 4% | 4% | 18.1 | 18.6 | 3% | 3% | 13.3 | 12.6 | -5% | -5% | 3.9 | 0.9 | -77% | -77% | 6.4 | 6.4 | 0% | 0% |
| 80 | December | 5.2 | 5.2 | 0% | 0% | 11.0 | 11.1 | 1% | 1% | 16.2 | 16.3 | 1% | 1% | 12.0 | 11.0 | -8% | -8% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.5 | 0% | 0% |
| 81 | January | 4.6 | 4.6 | 0% | 0% | 9.7 | 10.0 | 3% | 3% | 14.4 | 14.9 | 3% | 3% | 10.9 | 10.1 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 4.9 | 5.1 | 5% | 5% |
| 81 | February | 3.7 | 4.0 | 10% | 10% | 7.9 | 9.5 | 21% | 21% | 11.7 | 14.0 | 20% | 20% | 9.0 | 9.4 | 4% | 4% | 2.7 | 0.1 | -96% | -96% | 4.4 | 5.1 | 17% | 17% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | March | 16.2 | 16.1 | -1% | -1% | 35.5 | 35.5 | 0% | 0% | 43.5 | 43.2 | -1% | -1% | 32.4 | 37.0 | 14% | 14% | 9.3 | 5.0 | -46% | -46% | 18.2 | 18.3 | 0% | 0% |
| 81 | April | 32.5 | 33.7 | 4% | 4% | 70.1 | 73.0 | 4% | 4% | 86.1 | 89.2 | 4% | 4% | 58.3 | 61.8 | 6% | 6% | 22.1 | 16.6 | -25% | -25% | 37.2 | 37.5 | 1% | 1% |
| 81 | May | 56.3 | 56.3 | 0% | 0% | 122.1 | 122.8 | 1% | 1% | 151.7 | 152.5 | 1% | 1% | 109.3 | 109.0 | 0% | 0% | 37.8 | 30.3 | -20% | -20% | 63.2 | 63.9 | 1% | 1% |
| 81 | June | 39.4 | 40.7 | 3% | 3% | 83.6 | 86.6 | 4% | 3% | 106.1 | 109.4 | 3% | 2% | 78.2 | 79.8 | 2% | 2% | 25.8 | 19.8 | -23% | -12% | 43.8 | 43.9 | 0% | 0% |
| 81 | July | 7.2 | 7.2 | 1% | 1% | 15.0 | 14.6 | -2% | -1% | 21.9 | 21.3 | -3% | -2% | 16.2 | 14.8 | -9% | -5% | 4.2 | 1.1 | -74% | -23% | 7.3 | 6.7 | -7% | -2% |
| 81 | August | 6.0 | 6.0 | 0% | 0% | 12.5 | 12.1 | -3% | -3% | 18.5 | 17.8 | -4% | -4% | 13.7 | 12.6 | -8% | -8% | 3.7 | 0.8 | -78% | -78% | 6.1 | 5.6 | -7% | -7% |
| 81 | September | 16.4 | 16.9 | 3% | 3% | 35.1 | 36.3 | 3% | 3% | 44.3 | 45.5 | 3% | 3% | 34.8 | 38.0 | 9% | 9% | 9.4 | 5.1 | -46% | -46% | 18.2 | 18.2 | 0% | 0% |
| 81 | October | 6.3 | 6.3 | 0% | 0% | 13.1 | 12.9 | -1% | -1% | 19.2 | 18.8 | -2% | -2% | 14.1 | 12.9 | -8% | -8% | 3.8 | 0.9 | -76% | -76% | 6.4 | 6.1 | -4% | -4% |
| 81 | November | 5.2 | 5.3 | 3% | 3% | 10.8 | 11.3 | 5% | 5% | 16.0 | 16.6 | 3% | 3% | 11.8 | 11.2 | -5% | -5% | 3.5 | 0.6 | -83% | -83% | 5.5 | 5.5 | 2% | 2% |
| 81 | December | 4.8 | 4.8 | 0% | 0% | 9.9 | 9.9 | 0% | 0% | 14.9 | 14.9 | 0% | 0% | 11.1 | 10.3 | -8% | -8% | 3.1 | 0.4 | -87% | -87% | 4.8 | 4.8 | -1% | -1% |
| 82 | January | 4.2 | 4.2 | 0% | 0% | 8.8 | 8.9 | 2% | 2% | 13.4 | 13.6 | 2% | 2% | 10.1 | 9.5 | -6% | -6% | 2.7 | 0.1 | -96% | -96% | 4.4 | 4.5 | 2% | 2% |
| 82 | February | 3.4 | 3.7 | 10% | 10% | 7.2 | 8.1 | 13% | 13% | 11.0 | 12.6 | 14% | 14% | 8.3 | 8.7 | 6% | 6% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.2 | 5% | 5% |
| 82 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.5 | 4% | 4% | 11.2 | 11.7 | 5% | 5% | 8.4 | 8.1 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.7 | 3.9 | 5% | 5% |
| 82 | April | 12.5 | 12.9 | 3% | 3% | 27.5 | 28.0 | 2% | 2% | 34.7 | 35.1 | 1% | 1% | 26.2 | 32.8 | 25% | 25% | 6.7 | 2.8 | -58% | -58% | 14.4 | 14.1 | -2% | -2% |
| 82 | May | 22.8 | 22.8 | 0% | 0% | 49.0 | 48.8 | 0% | 0% | 58.7 | 58.5 | 0% | 0% | 40.3 | 42.7 | 6% | 4% | 14.2 | 9.8 | -31% | -12% | 24.9 | 24.7 | -1% | 0% |
| 82 | June | 5.6 | 5.8 | 4% | 0% | 11.7 | 11.8 | 1% | 0% | 16.8 | 16.8 | 0% | 0% | 12.0 | 11.5 | -4% | -1% | 3.4 | 0.7 | -80% | -6% | 5.9 | 5.5 | -6% | -1% |
| 82 | July | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.0 | -2% | -1% | 14.9 | 14.7 | -2% | -1% | 10.9 | 10.1 | -8% | -3% | 3.2 | 0.5 | -84% | -19% | 5.0 | 4.7 | -6% | -1% |
| 82 | August | 4.2 | 4.2 | 1% | 1% | 9.0 | 8.7 | -3% | -3% | 13.3 | 13.1 | -1% | -1% | 10.0 | 9.2 | -7% | -7% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.1 | -8% | -8% |
| 82 | September | 3.6 | 3.7 | 3% | 3% | 7.7 | 7.7 | 0% | 0% | 11.5 | 11.9 | 3% | 3% | 8.8 | 8.5 | -3% | -3% | 2.5 | 0.1 | -96% | -96% | 4.0 | 3.8 | -7% | -7% |
| 82 | October | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.1 | -2% | -2% | 10.9 | 11.0 | 1% | 1% | 8.2 | 7.9 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.5 | -6% | -6% |
| 82 | November | 2.9 | 3.0 | 3% | 3% | 6.5 | 6.8 | 5% | 5% | 9.7 | 10.5 | 8% | 8% | 7.2 | 7.3 | 2% | 2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 2% | 2% |
| 82 | December | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.5 | 4% | 4% | 9.3 | 9.8 | 6% | 6% | 6.7 | 6.8 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 5% | 5% |
| 83 | January | 2.5 | 2.5 | 0% | 0% | 5.8 | 6.1 | 6% | 6% | 8.6 | 9.3 | 9% | 9% | 6.1 | 6.3 | 3% | 3% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.4 | 9% | 9% |
| 83 | February | 2.2 | 2.3 | 6% | 6% | 5.1 | 5.5 | 9% | 9% | 7.5 | 8.5 | 14% | 14% | 5.1 | 5.8 | 13% | 13% | 1.7 | 0.0 | -100% | -100% | 2.9 | 3.0 | 1% | 1% |
| 83 | March | 2.2 | 2.1 | -1% | -1% | 5.1 | 5.3 | 3% | 3% | 7.5 | 8.1 | 8% | 8% | 5.0 | 5.4 | 7% | 7% | 1.6 | 0.0 | -100% | -100% | 2.8 | 2.9 | 4% | 4% |
| 83 | April | 20.1 | 20.6 | 3% | 3% | 44.8 | 46.4 | 4% | 4% | 53.2 | 55.0 | 3% | 3% | 36.5 | 46.2 | 27% | 27% | 12.0 | 7.8 | -35% | -35% | 23.9 | 24.2 | 1% | 1% |
| 83 | May | 37.0 | 37.1 | 0% | 0% | 79.9 | 80.3 | 0% | 0% | 95.3 | 95.6 | 0% | 0% | 63.4 | 65.7 | 4% | 3% | 23.8 | 18.5 | -22% | -14% | 41.1 | 41.2 | 0% | 0% |
| 83 | June | 16.2 | 16.9 | 4% | 1% | 33.9 | 34.7 | 2% | 1% | 42.3 | 42.1 | 0% | 0% | 31.9 | 33.8 | 6% | 2% | 9.3 | 5.6 | -40% | -8% | 17.3 | 16.9 | -3% | -1% |
| 83 | July | 5.9 | 5.9 | 0% | 0% | 12.2 | 11.6 | -5% | -2% | 17.6 | 16.3 | -8% | -3% | 13.2 | 12.1 | -9% | -4% | 3.4 | 0.8 | -77% | -19% | 5.9 | 5.2 | -11% | -3% |
| 83 | August | 5.0 | 5.0 | -1% | -1% | 10.3 | 9.9 | -4% | -4% | 15.2 | 14.4 | -5% | -5% | 11.6 | 10.6 | -9% | -9% | 3.1 | 0.5 | -84% | -84% | 5.0 | 4.5 | -9% | -9% |
| 83 | September | 4.2 | 4.4 | 3% | 3% | 8.8 | 8.9 | 1% | 1% | 13.2 | 13.3 | 1% | 1% | 10.2 | 9.7 | -5% | -5% | 2.8 | 0.3 | -89% | -89% | 4.4 | 4.2 | -5% | -5% |
| 83 | October | 3.9 | 3.9 | -1% | -1% | 8.1 | 8.0 | -2% | -2% | 12.2 | 12.1 | -1% | -1% | 9.6 | 8.9 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 3.8 | -5% | -5% |
| 83 | November | 3.3 | 3.4 | 3% | 3% | 7.0 | 7.8 | 10% | 10% | 10.7 | 11.7 | 9% | 9% | 8.4 | 8.2 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 11% | 11% |
| 83 | December | 3.0 | 3.0 | -1% | -1% | 6.7 | 6.9 | 2% | 2% | 10.2 | 10.6 | 4% | 4% | 7.9 | 7.6 | -3% | -3% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 3% | 3% |
| 84 | January | 2.7 | 2.7 | -1% | -1% | 6.1 | 6.4 | 6% | 6% | 9.3 | 9.9 | 7% | 7% | 7.0 | 7.0 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.5 | 9% | 9% |
| 84 | February | 2.3 | 2.5 | 11% | 11% | 5.1 | 5.8 | 14% | 14% | 7.8 | 9.1 | 18% | 18% | 5.7 | 6.4 | 12% | 12% | 1.8 | 0.0 | -100% | -100% | 3.0 | 3.1 | 3% | 3% |
| 84 | March | 2.3 | 2.2 | -2% | -2% | 5.3 | 5.7 | 8% | 8% | 8.0 | 8.8 | 10% | 10% | 5.7 | 5.9 | 4% | 4% | 1.7 | 0.0 | -100% | -100% | 2.9 | 3.3 | 15% | 15% |
| 84 | April | 26.3 | 27.0 | 3% | 3% | 58.1 | 60.7 | 5% | 5% | 68.5 | 71.9 | 5% | 5% | 47.5 | 57.1 | 20% | 20% | 16.9 | 11.9 | -30% | -30% | 31.1 | 31.9 | 2% | 2% |
| 84 | May | 45.9 | 45.9 | 0% | 0% | 99.5 | 100.1 | 1% | 1% | 121.0 | 120.1 | -1% | -1% | 82.9 | 84.6 | 2% | 2% | 30.1 | 23.9 | -21% | -16% | 51.4 | 51.9 | 1% | 1% |
| 84 | June | 36.1 | 37.3 | 4% | 3% | 76.8 | 79.5 | 3% | 2% | 95.8 | 98.7 | 3% | 2% | 70.7 | 73.4 | 4% | 3% | 23.5 | 18.1 | -23% | -11% | 40.4 | 40.3 | 0% | 0% |
| 84 | July | 6.3 | 6.4 | 1% | 1% | 12.9 | 12.4 | -4% | -1% | 19.1 | 18.1 | -5% | -2% | 14.2 | 12.9 | -9% | -4% | 3.5 | 0.8 | -77% | -19% | 6.1 | 5.4 | -11% | -3% |
| 84 | August | 5.3 | 5.3 | -1% | -1% | 10.8 | 10.5 | -3% | -3% | 16.3 | 15.6 | -4% | -4% | 12.4 | 11.3 | -9% | -9% | 3.1 | 0.5 | -84% | -84% | 5.1 | 4.8 | -7% | -7% |
| 84 | September | 4.7 | 4.9 | 4% | 4% | 9.6 | 9.8 | 2% | 2% | 14.6 | 14.6 | 0% | 0% | 11.4 | 10.8 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.5 | -4% | -4% |
| 84 | October | 6.6 | 6.7 | 1% | 1% | 13.6 | 13.4 | -2% | -2% | 19.5 | 18.9 | -3% | -3% | 16.1 | 16.9 | 5% | 5% | 3.2 | 0.2 | -94% | -94% | 6.5 | 6.2 | -5% | -5% |
| 84 | November | 4.6 | 4.7 | 4% | 4% | 9.3 | 9.7 | 5% | 5% | 13.9 | 14.3 | 3% | 3% | 10.8 | 10.3 | -5% | -5% | 2.7 | 0.2 | -93% | -93% | 4.6 | 4.6 | 1% | 1% |
| 84 | December | 4.0 | 4.0 | -1% | -1% | 8.4 | 8.3 | -1% | -1% | 12.6 | 12.6 | 0% | 0% | 9.7 | 9.1 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.0 | -2% | -2% |
| 85 | January | 3.5 | 3.5 | -1% | -1% | 7.5 | 7.8 | 4% | 4% | 11.4 | 11.8 | 4% | 4% | 8.7 | 8.3 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 6% | 6% |
| 85 | February | 2.8 | 3.1 | 10% | 10% | 6.2 | 7.1 | 16% | 16% | 9.4 | 11.0 | 17% | 17% | 7.2 | 7.7 | 8% | 8% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.8 | 7% | 7% |
| 85 | March | 3.0 | 3.0 | 0% | 0% | 6.5 | 6.6 | 2% | 2% | 9.8 | 10.2 | 4% | 4% | 7.5 | 7.4 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 2% | 2% |
| 85 | April | 22.6 | 23.2 | 3% | 3% | 50.2 | 51.8 | 3% | 3% | 59.5 | 61.7 | 4% | 4% | 41.9 | 50.4 | 20% | 20% | 14.3 | 9.5 | -34% | -34% | 26.9 | 27.0 | 0% | 0% |
| 85 | May | 33.6 | 33.7 | 0% | 0% | 72.2 | 72.7 | 1% | 1% | 88.1 | 87.6 | -1% | 0% | 59.5 | 61.3 | 3% | 3% | 21.6 | 16.3 | -25% | -14% | 37.0 | 37.3 | 1% | 1% |
| 85 | June | 6.7 | 7.0 | 5% | 1% | 13.9 | 13.8 | 0% | 0% | 19.7 | 19.2 | -3% | 0% | 14.9 | 14.9 | 0% | 0% | 3.6 | 0.8 | -78% | -6% | 6.9 | 6.2 | -9% | -1% |
| 85 | July | 5.6 | 5.6 | -1% | 0% | 11.5 | 11.0 | -4% | -1% | 16.7 | 15.9 | -5% | -2% | 12.7 | 11.6 | -8% | -4% | 3.3 | 0.7 | -79% | -19% | 5.5 | 5.0 | -8% | -2% |
| 85 | August | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.6 | -2% | -2% | 14.6 | 14.2 | -2% | -2% | 11.3 | 10.3 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -5% | -5% |
| 85 | September | 4.1 | 4.2 | 3% | 3% | 8.4 | 8.4 | 0% | 0% | 12.6 | 12.8 | 2% | 2% | 9.9 | 9.4 | -4% | -4% | 2.6 | 0.1 | -96% | -96% | 4.3 | 3.9 | -8% | -8% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | October | 5.4 | 5.4 | 0% | 0% | 11.1 | 10.9 | -2% | -2% | 16.0 | 15.8 | -1% | -1% | 13.3 | 14.1 | 6% | 6% | 2.9 | 0.1 | -97% | -97% | 5.3 | 5.1 | -4% | -4% |
| 85 | November | 3.9 | 4.0 | 3% | 3% | 8.3 | 8.6 | 4% | 4% | 12.1 | 12.7 | 5% | 5% | 9.4 | 9.3 | -2% | -2% | 2.4 | 0.0 | -100% | -100% | 4.2 | 4.2 | 0% | 0% |
| 85 | December | 3.5 | 3.5 | 0% | 0% | 7.6 | 7.6 | 0% | 0% | 11.1 | 11.4 | 3% | 3% | 8.6 | 8.3 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 3.8 | -1% | -1% |
| 86 | January | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.1 | 3% | 3% | 10.2 | 10.8 | 6% | 6% | 7.7 | 7.6 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 3% | 3% |
| 86 | February | 2.7 | 2.9 | 10% | 10% | 5.9 | 6.5 | 11% | 11% | 8.7 | 10.0 | 15% | 15% | 6.4 | 7.2 | 12% | 12% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | -1% | -1% |
| 86 | March | 2.7 | 2.6 | 0% | 0% | 6.0 | 6.3 | 5% | 5% | 8.9 | 9.5 | 7% | 7% | 6.4 | 6.6 | 2% | 2% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.4 | 7% | 7% |
| 86 | April | 7.9 | 8.2 | 3% | 3% | 17.1 | 17.6 | 2% | 2% | 22.6 | 23.1 | 2% | 2% | 18.2 | 24.4 | 34% | 34% | 3.3 | 0.2 | -94% | -46% | 8.7 | 8.6 | -2% | -2% |
| 86 | May | 23.7 | 23.6 | 0% | 0% | 51.6 | 51.5 | 0% | 0% | 60.2 | 60.1 | 0% | 0% | 40.1 | 44.2 | 10% | 6% | 14.8 | 10.4 | -30% | -12% | 26.6 | 26.6 | 0% | 0% |
| 86 | June | 16.1 | 16.8 | 4% | 1% | 34.3 | 35.1 | 2% | 1% | 41.3 | 42.1 | 2% | 1% | 29.7 | 31.9 | 7% | 3% | 9.7 | 5.9 | -39% | -8% | 17.7 | 17.3 | -2% | -1% |
| 86 | July | 5.8 | 5.8 | 1% | 0% | 12.1 | 11.6 | -4% | -1% | 17.1 | 16.1 | -5% | -2% | 12.4 | 11.3 | -9% | -4% | 3.5 | 0.8 | -77% | -20% | 5.9 | 5.3 | -10% | -3% |
| 86 | August | 4.9 | 4.9 | 0% | 0% | 10.2 | 9.8 | -4% | -4% | 14.7 | 14.1 | -4% | -4% | 10.9 | 9.9 | -9% | -9% | 3.2 | 0.5 | -84% | -84% | 5.0 | 4.5 | -10% | -10% |
| 86 | September | 4.1 | 4.3 | 4% | 4% | 8.7 | 8.8 | 1% | 1% | 12.8 | 13.0 | 2% | 2% | 9.6 | 9.1 | -6% | -6% | 2.8 | 0.3 | -89% | -89% | 4.5 | 4.2 | -7% | -7% |
| 86 | October | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.5 | -1% | -1% | 12.7 | 12.6 | 0% | 0% | 9.8 | 9.2 | -6% | -6% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.1 | -4% | -4% |
| 86 | November | 3.5 | 3.6 | 3% | 3% | 7.5 | 8.0 | 7% | 7% | 11.0 | 11.9 | 8% | 8% | 8.5 | 8.4 | -1% | -1% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 7% | 7% |
| 86 | December | 3.2 | 3.2 | 0% | 0% | 7.0 | 7.2 | 2% | 2% | 10.4 | 10.8 | 4% | 4% | 7.8 | 7.5 | -3% | -3% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 4% | 4% |
| 87 | January | 2.9 | 2.9 | -1% | -1% | 6.4 | 6.5 | 2% | 2% | 9.5 | 9.9 | 4% | 4% | 7.0 | 6.9 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 1% | 1% |
| 87 | February | 2.5 | 2.6 | 7% | 7% | 5.6 | 6.2 | 10% | 10% | 8.3 | 9.3 | 13% | 13% | 5.9 | 6.4 | 8% | 8% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 4% | 4% |
| 87 | March | 5.4 | 5.4 | 0% | 0% | 11.6 | 11.4 | -2% | -2% | 16.1 | 15.9 | -1% | -1% | 13.4 | 16.7 | 25% | 25% | 2.6 | 0.0 | -100% | -100% | 5.7 | 5.4 | -5% | -5% |
| 87 | April | 19.3 | 19.8 | 3% | 3% | 42.3 | 43.6 | 3% | 3% | 50.0 | 51.1 | 2% | 2% | 33.9 | 40.4 | 19% | 19% | 11.4 | 7.2 | -37% | -37% | 22.5 | 22.5 | 0% | 0% |
| 87 | May | 11.2 | 11.3 | 1% | 0% | 23.4 | 22.9 | -2% | -1% | 29.2 | 28.3 | -3% | -1% | 21.3 | 22.6 | 6% | 2% | 5.7 | 2.3 | -59% | -9% | 11.4 | 10.8 | -5% | -1% |
| 87 | June | 6.1 | 6.3 | 4% | 1% | 12.7 | 12.7 | 0% | 0% | 17.2 | 17.1 | 0% | 0% | 12.8 | 12.7 | 0% | 0% | 3.7 | 0.8 | -79% | -6% | 6.4 | 6.0 | -7% | -1% |
| 87 | July | 5.2 | 5.2 | 0% | 0% | 10.9 | 10.6 | -3% | -1% | 15.0 | 14.6 | -3% | -1% | 11.3 | 10.3 | -8% | -3% | 3.4 | 0.7 | -79% | -19% | 5.4 | 5.0 | -7% | -2% |
| 87 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.1 | -4% | -4% | 13.3 | 13.0 | -2% | -2% | 9.9 | 9.1 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.3 | -10% | -10% |
| 87 | September | 3.8 | 3.9 | 3% | 3% | 8.1 | 8.2 | 2% | 2% | 11.6 | 12.0 | 3% | 3% | 8.8 | 8.4 | -4% | -4% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.1 | -4% | -4% |
| 87 | October | 3.7 | 3.7 | 0% | 0% | 8.0 | 7.9 | -1% | -1% | 11.5 | 11.6 | 1% | 1% | 8.7 | 8.3 | -4% | -4% | 2.5 | 0.1 | -96% | -96% | 4.1 | 3.9 | -3% | -3% |
| 87 | November | 3.2 | 3.3 | 3% | 3% | 7.0 | 7.4 | 5% | 5% | 10.2 | 10.8 | 6% | 6% | 7.5 | 7.5 | 1% | 1% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.8 | 1% | 1% |
| 87 | December | 3.0 | 3.0 | 0% | 0% | 6.7 | 7.0 | 4% | 4% | 9.6 | 10.2 | 6% | 6% | 6.9 | 6.9 | -1% | -1% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.7 | 6% | 6% |
| 88 | January | 2.7 | 2.7 | -1% | -1% | 6.2 | 6.6 | 6% | 6% | 9.0 | 9.6 | 7% | 7% | 6.2 | 6.3 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 11% | 11% |
| 88 | February | 2.3 | 2.5 | 11% | 11% | 5.3 | 6.0 | 15% | 15% | 7.6 | 8.9 | 18% | 18% | 5.2 | 5.8 | 13% | 13% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.3 | 6% | 6% |
| 88 | March | 4.0 | 4.0 | 0% | 0% | 8.6 | 8.7 | 1% | 1% | 12.0 | 12.3 | 2% | 2% | 9.1 | 11.0 | 21% | 21% | 2.2 | 0.0 | -100% | -100% | 4.3 | 4.4 | 2% | 2% |
| 88 | April | 19.5 | 20.1 | 3% | 3% | 43.0 | 44.6 | 4% | 4% | 51.0 | 52.3 | 3% | 3% | 34.8 | 42.8 | 23% | 23% | 11.5 | 7.2 | -37% | -37% | 22.9 | 23.2 | 1% | 1% |
| 88 | May | 62.4 | 62.5 | 0% | 0% | 136.0 | 137.0 | 1% | 1% | 163.9 | 164.4 | 0% | 0% | 111.5 | 112.7 | 1% | 1% | 42.1 | 34.3 | -19% | -19% | 70.8 | 71.6 | 1% | 1% |
| 88 | June | 47.6 | 49.3 | 4% | 3% | 101.2 | 105.4 | 4% | 4% | 126.2 | 130.7 | 4% | 3% | 92.7 | 95.2 | 3% | 3% | 31.3 | 24.8 | -21% | -13% | 53.3 | 53.8 | 1% | 1% |
| 88 | July | 6.8 | 6.9 | 2% | 1% | 13.9 | 13.6 | -2% | -1% | 20.3 | 19.5 | -4% | -2% | 15.3 | 13.7 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.1 | -6% | -2% |
| 88 | August | 5.7 | 5.7 | 0% | 0% | 11.6 | 11.4 | -2% | -2% | 17.3 | 16.6 | -5% | -5% | 13.1 | 11.7 | -11% | -11% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.2 | -5% | -5% |
| 88 | September | 4.8 | 5.0 | 2% | 2% | 9.8 | 9.8 | 0% | 0% | 14.9 | 14.6 | -2% | -2% | 11.5 | 10.6 | -8% | -8% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.5 | -6% | -6% |
| 88 | October | 4.4 | 4.4 | 0% | 0% | 9.0 | 8.9 | -1% | -1% | 13.8 | 13.4 | -3% | -3% | 10.8 | 9.7 | -10% | -10% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -3% | -3% |
| 88 | November | 3.9 | 3.9 | 2% | 2% | 7.9 | 8.1 | 3% | 3% | 12.2 | 12.4 | 2% | 2% | 9.5 | 9.0 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 88 | December | 3.5 | 3.5 | -1% | -1% | 7.4 | 7.5 | 1% | 1% | 11.5 | 11.6 | 1% | 1% | 8.8 | 8.2 | -7% | -7% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.7 | 2% | 2% |
| 89 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.9 | 3% | 3% | 10.5 | 10.7 | 2% | 2% | 8.0 | 7.6 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.5 | 3% | 3% |
| 89 | February | 2.5 | 2.8 | 9% | 9% | 5.6 | 6.4 | 14% | 14% | 8.7 | 10.0 | 15% | 15% | 6.6 | 7.0 | 7% | 7% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.3 | 5% | 5% |
| 89 | March | 2.9 | 2.9 | 0% | 0% | 6.4 | 6.2 | -2% | -2% | 9.7 | 9.8 | 1% | 1% | 7.3 | 7.4 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.1 | -6% | -6% |
| 89 | April | 6.3 | 6.5 | 3% | 3% | 13.6 | 13.8 | 2% | 1% | 18.8 | 19.1 | 2% | 1% | 16.1 | 21.0 | 31% | 31% | 2.8 | 0.0 | -100% | -41% | 6.8 | 6.6 | -3% | -2% |
| 89 | May | 13.1 | 13.0 | -1% | 0% | 28.1 | 27.7 | -1% | 0% | 34.7 | 33.9 | -2% | -1% | 24.5 | 28.8 | 18% | 6% | 6.3 | 3.0 | -53% | -9% | 14.0 | 13.8 | -1% | 0% |
| 89 | June | 4.8 | 4.9 | 3% | 0% | 9.9 | 9.8 | 0% | 0% | 13.6 | 13.6 | 0% | 0% | 10.1 | 9.7 | -4% | 0% | 2.8 | 0.3 | -89% | -5% | 4.9 | 4.5 | -8% | -1% |
| 89 | July | 4.3 | 4.3 | 0% | 0% | 9.2 | 8.7 | -5% | -1% | 12.6 | 12.3 | -3% | -1% | 9.4 | 8.6 | -8% | -3% | 2.8 | 0.4 | -86% | -18% | 4.6 | 4.1 | -10% | -2% |
| 89 | August | 3.8 | 3.8 | 0% | 0% | 8.1 | 7.7 | -5% | -5% | 11.5 | 11.2 | -2% | -2% | 8.7 | 8.0 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.1 | 3.6 | -11% | -11% |
| 89 | September | 3.3 | 3.4 | 4% | 4% | 7.1 | 7.1 | 0% | 0% | 10.2 | 10.5 | 3% | 3% | 7.6 | 7.4 | -2% | -2% | 2.3 | 0.1 | -96% | -96% | 3.8 | 3.4 | -9% | -9% |
| 89 | October | 4.7 | 4.7 | 0% | 0% | 9.8 | 9.7 | -1% | -1% | 13.7 | 13.7 | 0% | 0% | 10.9 | 12.0 | 10% | 10% | 2.6 | 0.0 | -100% | -100% | 4.8 | 4.6 | -3% | -3% |
| 89 | November | 3.4 | 3.5 | 3% | 3% | 7.3 | 7.7 | 6% | 6% | 10.2 | 11.0 | 7% | 7% | 7.5 | 7.5 | 0% | 0% | 2.2 | 0.0 | -100% | -100% | 3.8 | 3.9 | 5% | 5% |
| 89 | December | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.0 | 2% | 2% | 9.7 | 10.1 | 4% | 4% | 6.8 | 6.7 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.6 | 1% | 1% |
| 90 | January | 2.8 | 2.8 | -1% | -1% | 6.4 | 6.7 | 6% | 6% | 9.0 | 9.7 | 7% | 7% | 6.2 | 6.2 | -1% | -1% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.7 | 9% | 9% |
| 90 | February | 3.2 | 3.6 | 11% | 11% | 7.0 | 7.8 | 11% | 11% | 9.8 | 11.1 | 14% | 14% | 7.2 | 8.8 | 24% | 24% | 2.1 | 0.0 | -100% | -100% | 3.9 | 3.9 | 0% | 0% |
| 90 | March | 2.9 | 2.8 | -1% | -1% | 6.3 | 6.8 | 7% | 7% | 8.9 | 9.6 | 8% | 8% | 6.1 | 6.2 | 2% | 2% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.7 | 13% | 13% |
| 90 | April | 17.9 | 18.3 | 3% | 3% | 39.5 | 40.9 | 4% | 4% | 47.1 | 48.3 | 3% | 3% | 32.5 | 40.7 | 25% | 25% | 10.6 | 6.3 | -40% | -40% | 21.0 | 21.3 | 1% | 1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | May | 67.7 | 67.8 | 0% | 0% | 147.8 | 149.1 | 1% | 1% | 177.5 | 178.7 | 1% | 1% | 120.9 | 122.2 | 1% | 1% | 46.0 | 37.6 | -18% | -18% | 77.1 | 78.1 | 1% | 1% |
| 90 | June | 65.3 | 67.6 | 3% | 3% | 139.4 | 145.3 | 4% | 4% | 173.8 | 180.2 | 4% | 4% | 127.3 | 130.1 | 2% | 2% | 43.7 | 35.6 | -19% | -17% | 73.7 | 74.7 | 1% | 1% |
| 90 | July | 7.0 | 7.1 | 2% | 1% | 14.1 | 13.8 | -2% | -1% | 20.9 | 19.8 | -5% | -3% | 15.8 | 14.1 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 6.1 | -6% | -2% |
| 90 | August | 5.8 | 5.8 | 0% | 0% | 11.8 | 11.4 | -3% | -3% | 17.6 | 16.6 | -6% | -6% | 13.4 | 11.9 | -11% | -11% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.1 | -7% | -7% |
| 90 | September | 4.9 | 5.0 | 3% | 3% | 9.8 | 9.9 | 1% | 1% | 15.0 | 14.7 | -2% | -2% | 11.7 | 10.7 | -8% | -8% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.5 | -6% | -6% |
| 90 | October | 7.4 | 7.4 | 0% | 0% | 15.1 | 14.9 | -2% | -2% | 21.5 | 20.6 | -4% | -4% | 17.7 | 18.6 | 5% | 5% | 3.4 | 0.2 | -94% | -94% | 7.2 | 6.9 | -4% | -4% |
| 90 | November | 5.1 | 5.2 | 2% | 2% | 10.3 | 10.9 | 6% | 6% | 15.3 | 15.7 | 3% | 3% | 11.8 | 11.1 | -6% | -6% | 3.0 | 0.3 | -90% | -90% | 5.0 | 5.3 | 6% | 6% |
| 90 | December | 4.5 | 4.5 | 0% | 0% | 9.2 | 9.6 | 4% | 4% | 13.9 | 14.1 | 2% | 2% | 10.5 | 9.6 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.5 | 4.8 | 7% | 7% |
| 91 | January | 3.9 | 3.9 | -1% | -1% | 8.2 | 8.6 | 5% | 5% | 12.4 | 12.8 | 3% | 3% | 9.4 | 8.7 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.4 | 10% | 10% |
| 91 | February | 3.2 | 3.4 | 6% | 6% | 6.9 | 7.8 | 13% | 13% | 10.6 | 11.8 | 12% | 12% | 8.0 | 8.1 | 1% | 1% | 2.3 | 0.0 | -100% | -100% | 3.7 | 4.1 | 10% | 10% |
| 91 | March | 3.1 | 3.1 | 0% | 0% | 6.8 | 7.0 | 4% | 4% | 10.3 | 10.8 | 4% | 4% | 7.7 | 7.4 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.6 | 4% | 4% |
| 91 | April | 38.8 | 40.0 | 3% | 3% | 86.0 | 89.7 | 4% | 4% | 102.8 | 106.7 | 4% | 4% | 69.3 | 78.2 | 13% | 13% | 26.6 | 20.1 | -24% | -24% | 46.5 | 47.3 | 2% | 2% |
| 91 | May | 75.1 | 75.2 | 0% | 0% | 162.5 | 164.2 | 1% | 1% | 200.8 | 202.0 | 1% | 1% | 144.2 | 144.1 | 0% | 0% | 49.9 | 41.1 | -18% | -18% | 84.1 | 85.6 | 2% | 2% |
| 91 | June | 61.3 | 63.4 | 3% | 3% | 130.1 | 135.3 | 4% | 4% | 164.5 | 169.6 | 3% | 3% | 121.2 | 123.2 | 2% | 2% | 40.5 | 32.8 | -19% | -16% | 68.5 | 69.1 | 1% | 1% |
| 91 | July | 7.0 | 7.1 | 2% | 1% | 14.1 | 13.6 | -3% | -1% | 21.2 | 20.1 | -5% | -3% | 16.0 | 14.1 | -12% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.9 | -9% | -3% |
| 91 | August | 5.8 | 5.8 | 0% | 0% | 11.7 | 11.3 | -3% | -3% | 17.7 | 16.8 | -5% | -5% | 13.4 | 11.9 | -11% | -11% | 3.4 | 0.6 | -82% | -82% | 5.5 | 5.0 | -9% | -9% |
| 91 | September | 4.9 | 5.0 | 3% | 3% | 9.8 | 10.0 | 2% | 2% | 15.1 | 15.1 | 0% | 0% | 11.7 | 10.8 | -8% | -8% | 2.9 | 0.4 | -86% | -86% | 4.7 | 4.6 | -3% | -3% |
| 91 | October | 6.6 | 6.7 | 0% | 0% | 13.5 | 13.3 | -2% | -2% | 19.7 | 19.0 | -4% | -4% | 16.1 | 16.6 | 3% | 3% | 3.2 | 0.2 | -94% | -94% | 6.4 | 6.1 | -4% | -4% |
| 91 | November | 4.7 | 4.9 | 3% | 3% | 9.6 | 10.3 | 8% | 8% | 14.4 | 15.2 | 5% | 5% | 11.2 | 10.5 | -6% | -6% | 2.8 | 0.2 | -93% | -93% | 4.7 | 5.1 | 9% | 9% |
| 91 | December | 4.2 | 4.2 | -1% | -1% | 8.6 | 9.4 | 9% | 9% | 13.2 | 14.0 | 6% | 6% | 10.1 | 9.3 | -8% | -8% | 2.5 | 0.1 | -96% | -96% | 4.2 | 5.0 | 20% | 20% |
| 92 | January | 3.7 | 3.6 | -1% | -1% | 7.7 | 8.3 | 8% | 8% | 12.0 | 12.6 | 5% | 5% | 9.0 | 8.5 | -6% | -6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.4 | 15% | 15% |
| 92 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.2 | 14% | 14% | 9.9 | 11.3 | 14% | 14% | 7.5 | 7.8 | 5% | 5% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.7 | 4% | 4% |
| 92 | March | 3.0 | 2.9 | -1% | -1% | 6.5 | 6.7 | 4% | 4% | 10.0 | 10.5 | 5% | 5% | 7.5 | 7.2 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.3 | 3.5 | 6% | 6% |
| 92 | April | 16.3 | 16.7 | 3% | 3% | 36.1 | 37.2 | 3% | 3% | 44.2 | 45.1 | 2% | 2% | 32.2 | 39.9 | 24% | 24% | 9.5 | 5.3 | -44% | -44% | 19.2 | 19.2 | 0% | 0% |
| 92 | May | 91.9 | 91.8 | 0% | 0% | 200.3 | 202.0 | 1% | 1% | 244.7 | 246.5 | 1% | 1% | 170.7 | 171.3 | 0% | 0% | 62.6 | 52.2 | -17% | -17% | 104.4 | 106.0 | 1% | 1% |
| 92 | June | 58.5 | 60.5 | 4% | 4% | 124.0 | 129.1 | 4% | 4% | 156.5 | 161.4 | 3% | 3% | 115.2 | 117.3 | 2% | 2% | 38.6 | 31.1 | -19% | -15% | 65.2 | 65.9 | 1% | 1% |
| 92 | July | 6.9 | 7.0 | 1% | 1% | 13.9 | 13.6 | -2% | -1% | 20.9 | 20.0 | -5% | -2% | 15.8 | 14.0 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.4 | 6.0 | -6% | -2% |
| 92 | August | 5.7 | 5.8 | 1% | 1% | 11.5 | 11.3 | -2% | -2% | 17.5 | 16.7 | -4% | -4% | 13.3 | 11.8 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.1 | -6% | -6% |
| 92 | September | 5.0 | 5.1 | 3% | 3% | 9.9 | 10.1 | 2% | 2% | 15.2 | 15.2 | 0% | 0% | 11.9 | 11.0 | -7% | -7% | 3.0 | 0.4 | -86% | -86% | 4.8 | 4.6 | -3% | -3% |
| 92 | October | 7.7 | 7.7 | 0% | 0% | 15.9 | 15.6 | -1% | -1% | 22.5 | 21.7 | -4% | -4% | 18.6 | 19.8 | 6% | 6% | 3.4 | 0.2 | -94% | -94% | 7.5 | 7.3 | -3% | -3% |
| 92 | November | 4.9 | 5.0 | 3% | 3% | 9.9 | 10.4 | 5% | 5% | 14.9 | 15.3 | 3% | 3% | 11.5 | 10.8 | -6% | -6% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.0 | 2% | 2% |
| 92 | December | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.1 | 1% | 1% | 13.7 | 13.7 | 0% | 0% | 10.4 | 9.5 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.4 | 1% | 1% |
| 93 | January | 3.9 | 3.8 | -1% | -1% | 8.0 | 8.5 | 6% | 6% | 12.3 | 12.8 | 4% | 4% | 9.3 | 8.7 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.4 | 11% | 11% |
| 93 | February | 3.1 | 3.4 | 10% | 10% | 6.6 | 7.6 | 15% | 15% | 10.2 | 11.7 | 15% | 15% | 7.7 | 8.0 | 5% | 5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 7% | 7% |
| 93 | March | 3.1 | 3.0 | -1% | -1% | 6.7 | 6.9 | 4% | 4% | 10.3 | 10.8 | 4% | 4% | 7.7 | 7.4 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 5% | 5% |
| 93 | April | 10.3 | 10.6 | 3% | 3% | 22.6 | 23.1 | 2% | 2% | 29.2 | 29.6 | 1% | 1% | 22.3 | 28.7 | 28% | 28% | 5.2 | 1.6 | -69% | -53% | 11.8 | 11.5 | -2% | -2% |
| 93 | May | 55.8 | 55.8 | 0% | 0% | 122.3 | 123.3 | 1% | 1% | 147.0 | 147.2 | 0% | 0% | 99.1 | 101.5 | 2% | 2% | 38.1 | 30.7 | -19% | -19% | 63.9 | 64.8 | 1% | 1% |
| 93 | June | 39.5 | 40.9 | 4% | 3% | 84.3 | 87.6 | 4% | 3% | 105.3 | 109.1 | 4% | 3% | 76.9 | 79.6 | 4% | 3% | 26.1 | 20.2 | -23% | -12% | 44.4 | 44.7 | 1% | 0% |
| 93 | July | 6.6 | 6.6 | 1% | 0% | 13.5 | 13.0 | -3% | -1% | 20.0 | 19.1 | -4% | -2% | 14.8 | 13.4 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.4 | 5.8 | -9% | -3% |
| 93 | August | 5.5 | 5.6 | 1% | 1% | 11.3 | 10.9 | -4% | -4% | 17.0 | 16.2 | -5% | -5% | 12.8 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -9% | -9% |
| 93 | September | 8.5 | 8.8 | 3% | 3% | 17.8 | 18.1 | 2% | 2% | 24.6 | 24.5 | 0% | 0% | 20.4 | 22.3 | 10% | 10% | 4.0 | 0.6 | -85% | -85% | 8.9 | 8.6 | -3% | -3% |
| 93 | October | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 16.3 | 16.0 | -2% | -2% | 12.4 | 11.1 | -10% | -10% | 3.3 | 0.5 | -85% | -85% | 5.3 | 5.3 | 0% | 0% |
| 93 | November | 4.5 | 4.7 | 3% | 3% | 9.4 | 10.2 | 8% | 8% | 14.0 | 14.9 | 7% | 7% | 10.6 | 9.9 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.7 | 5.1 | 9% | 9% |
| 93 | December | 4.1 | 4.1 | 0% | 0% | 8.6 | 9.0 | 5% | 5% | 13.0 | 13.5 | 4% | 4% | 9.9 | 9.1 | -8% | -8% | 2.6 | 0.2 | -92% | -92% | 4.2 | 4.6 | 10% | 10% |
| 94 | January | 3.6 | 3.6 | 0% | 0% | 7.7 | 8.1 | 5% | 5% | 11.7 | 12.3 | 5% | 5% | 8.9 | 8.3 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.2 | 9% | 9% |
| 94 | February | 2.9 | 3.2 | 10% | 10% | 6.3 | 7.7 | 22% | 22% | 9.6 | 11.7 | 21% | 21% | 7.3 | 7.8 | 6% | 6% | 2.2 | 0.0 | -100% | -100% | 3.6 | 4.2 | 19% | 19% |
| 94 | March | 2.9 | 2.9 | -1% | -1% | 6.5 | 6.7 | 3% | 3% | 9.8 | 10.4 | 6% | 6% | 7.4 | 7.2 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 6% | 6% |
| 94 | April | 3.7 | 3.9 | 4% | 2% | 8.0 | 8.2 | 2% | 1% | 11.7 | 12.3 | 5% | 2% | 9.2 | 10.6 | 15% | 9% | 2.2 | 0.0 | -100% | -33% | 4.1 | 4.0 | -3% | -1% |
| 94 | May | 55.9 | 55.8 | 0% | 0% | 123.6 | 124.4 | 1% | 1% | 147.9 | 148.1 | 0% | 0% | 99.5 | 105.5 | 6% | 6% | 37.6 | 29.8 | -21% | -21% | 64.9 | 65.6 | 1% | 1% |
| 94 | June | 90.6 | 93.6 | 3% | 3% | 194.6 | 202.9 | 4% | 4% | 241.6 | 251.6 | 4% | 4% | 175.9 | 180.6 | 3% | 3% | 61.6 | 51.3 | -17% | -17% | 103.5 | 105.2 | 2% | 2% |
| 94 | July | 7.3 | 7.5 | 2% | 1% | 14.3 | 13.8 | -3% | -1% | 21.4 | 20.2 | -6% | -3% | 16.5 | 14.9 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 5.8 | -10% | -3% |
| 94 | August | 6.0 | 6.0 | 0% | 0% | 11.9 | 11.5 | -4% | -4% | 17.9 | 16.9 | -6% | -6% | 13.8 | 12.5 | -10% | -10% | 3.3 | 0.5 | -85% | -85% | 5.5 | 5.0 | -9% | -9% |
| 94 | September | 5.0 | 5.2 | 3% | 3% | 10.0 | 10.0 | 0% | 0% | 15.2 | 15.0 | -1% | -1% | 12.0 | 11.1 | -7% | -7% | 2.9 | 0.3 | -90% | -90% | 4.8 | 4.4 | -7% | -7% |
| 94 | October | 4.9 | 4.9 | 0% | 0% | 9.7 | 9.6 | -2% | -2% | 14.9 | 14.4 | -3% | -3% | 11.8 | 10.9 | -8% | -8% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.3 | -5% | -5% |
| 94 | November | 4.6 | 4.7 | 3% | 3% | 9.1 | 9.4 | 4% | 4% | 13.9 | 14.2 | 2% | 2% | 11.0 | 10.8 | -2% | -2% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.4 | 0% | 0% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94 | December | 4.1 | 4.1 | -1% | -1% | 8.4 | 8.5 | 2% | 2% | 12.9 | 12.9 | 0% | 0% | 10.0 | 9.5 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.1 | 3% | 3% |
| 95 | January | 3.6 | 3.6 | 0% | 0% | 7.5 | 7.9 | 5% | 5% | 11.7 | 12.1 | 3% | 3% | 8.8 | 8.5 | -4% | -4% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.0 | 9% | 9% |
| 95 | February | 3.0 | 3.2 | 6% | 6% | 6.4 | 7.2 | 13% | 13% | 10.0 | 11.1 | 12% | 12% | 7.5 | 7.9 | 5% | 5% | 2.0 | 0.0 | -100% | -100% | 3.5 | 3.8 | 9% | 9% |
| 95 | March | 2.9 | 2.9 | -1% | -1% | 6.3 | 6.5 | 2% | 2% | 9.8 | 10.1 | 3% | 3% | 7.3 | 7.2 | -1% | -1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.4 | 3% | 3% |
| 95 | April | 25.2 | 26.0 | 3% | 3% | 55.9 | 57.8 | 3% | 3% | 66.5 | 68.8 | 4% | 4% | 46.9 | 55.9 | 19% | 19% | 15.8 | 10.8 | -32% | -32% | 29.9 | 30.0 | 0% | 0% |
| 95 | May | 42.3 | 42.4 | 0% | 0% | 91.4 | 91.9 | 1% | 1% | 112.0 | 110.9 | -1% | -1% | 77.1 | 78.6 | 2% | 2% | 27.5 | 21.5 | -22% | -16% | 47.0 | 47.4 | 1% | 1% |
| 95 | June | 19.0 | 19.8 | 4% | 2% | 39.7 | 40.7 | 3% | 1% | 50.6 | 51.5 | 2% | 1% | 38.0 | 39.9 | 5% | 2% | 11.2 | 7.2 | -36% | -8% | 20.3 | 19.9 | -2% | -1% |
| 95 | July | 6.3 | 6.4 | 1% | 0% | 13.1 | 12.5 | -4% | -1% | 19.3 | 18.3 | -5% | -2% | 14.2 | 13.0 | -9% | -4% | 3.7 | 0.8 | -78% | -21% | 6.3 | 5.6 | -11% | -3% |
| 95 | August | 5.4 | 5.3 | 0% | 0% | 11.0 | 10.6 | -4% | -4% | 16.5 | 15.7 | -5% | -5% | 12.4 | 11.2 | -9% | -9% | 3.3 | 0.6 | -82% | -82% | 5.3 | 4.8 | -10% | -10% |
| 95 | September | 5.9 | 6.2 | 4% | 4% | 12.2 | 12.3 | 1% | 1% | 17.8 | 17.8 | 0% | 0% | 14.1 | 14.5 | 3% | 3% | 3.4 | 0.4 | -88% | -88% | 6.1 | 5.7 | -6% | -6% |
| 95 | October | 11.5 | 11.4 | 0% | 0% | 24.3 | 24.2 | 0% | 0% | 31.8 | 31.1 | -2% | -2% | 25.5 | 27.9 | 9% | 9% | 5.4 | 1.7 | -69% | -69% | 12.0 | 11.9 | 0% | 0% |
| 95 | November | 5.4 | 5.6 | 3% | 3% | 11.3 | 11.7 | 3% | 3% | 16.3 | 16.7 | 3% | 3% | 12.2 | 11.5 | -6% | -6% | 3.5 | 0.7 | -80% | -80% | 5.7 | 5.7 | 0% | 0% |
| 95 | December | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.2 | 1% | 1% | 14.7 | 14.9 | 1% | 1% | 11.0 | 10.1 | -8% | -8% | 3.2 | 0.5 | -85% | -85% | 5.0 | 5.1 | 1% | 1% |
| 96 | January | 4.2 | 4.2 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 13.1 | 13.4 | 2% | 2% | 10.0 | 9.2 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.5 | 4.5 | -1% | -1% |
| 96 | February | 3.3 | 3.7 | 11% | 11% | 7.2 | 8.1 | 12% | 12% | 10.7 | 12.3 | 15% | 15% | 8.2 | 8.5 | 4% | 4% | 2.6 | 0.1 | -96% | -96% | 4.1 | 4.1 | 1% | 1% |
| 96 | March | 3.6 | 3.6 | 0% | 0% | 7.9 | 7.9 | 0% | 0% | 11.6 | 12.0 | 3% | 3% | 8.8 | 8.6 | -3% | -3% | 2.5 | 0.0 | -100% | -100% | 4.0 | 4.0 | -1% | -1% |
| 96 | April | 8.5 | 8.8 | 3% | 3% | 18.2 | 18.5 | 2% | 2% | 24.0 | 24.5 | 2% | 2% | 19.1 | 23.9 | 25% | 25% | 3.9 | 0.4 | -90% | -52% | 9.3 | 9.0 | -2% | -2% |
| 96 | May | 16.7 | 16.6 | 0% | 0% | 36.1 | 35.7 | -1% | -1% | 43.3 | 42.5 | -2% | -1% | 30.0 | 33.1 | 10% | 5% | 10.0 | 6.0 | -40% | -11% | 18.3 | 18.0 | -2% | -1% |
| 96 | June | 6.0 | 6.2 | 4% | 1% | 12.6 | 12.7 | 0% | 0% | 17.3 | 17.4 | 1% | 0% | 12.7 | 12.6 | -1% | 0% | 3.8 | 0.8 | -79% | -6% | 6.4 | 6.0 | -7% | -1% |
| 96 | July | 5.2 | 5.2 | 0% | 0% | 11.0 | 10.6 | -3% | -1% | 15.3 | 15.0 | -2% | -1% | 11.3 | 10.5 | -7% | -3% | 3.4 | 0.6 | -83% | -20% | 5.4 | 5.1 | -7% | -2% |
| 96 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.1 | -4% | -4% | 13.5 | 13.3 | -1% | -1% | 10.0 | 9.3 | -7% | -7% | 3.1 | 0.4 | -87% | -87% | 4.8 | 4.3 | -10% | -10% |
| 96 | September | 3.8 | 3.9 | 3% | 3% | 8.2 | 8.3 | 2% | 2% | 11.7 | 12.3 | 5% | 5% | 8.9 | 8.5 | -3% | -3% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.1 | -4% | -4% |
| 96 | October | 7.6 | 7.6 | 0% | 0% | 16.0 | 15.8 | -1% | -1% | 21.4 | 21.2 | -1% | -1% | 17.1 | 19.7 | 16% | 16% | 3.4 | 0.1 | -97% | -97% | 7.7 | 7.5 | -3% | -3% |
| 96 | November | 4.7 | 4.9 | 4% | 4% | 10.0 | 10.5 | 5% | 5% | 13.8 | 14.6 | 6% | 6% | 10.2 | 10.0 | -1% | -1% | 3.0 | 0.2 | -93% | -93% | 5.1 | 5.2 | 3% | 3% |
| 96 | December | 4.2 | 4.2 | -1% | -1% | 9.1 | 9.4 | 3% | 3% | 12.7 | 13.2 | 4% | 4% | 9.2 | 8.8 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.9 | 6% | 6% |
| 97 | January | 3.7 | 3.7 | 1% | 1% | 8.1 | 8.4 | 4% | 4% | 11.4 | 12.0 | 5% | 5% | 8.2 | 8.0 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 5% | 5% |
| 97 | February | 3.1 | 3.4 | 11% | 11% | 6.8 | 7.6 | 13% | 13% | 9.5 | 11.0 | 15% | 15% | 6.8 | 7.4 | 9% | 9% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.0 | 3% | 3% |
| 97 | March | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.2 | 4% | 4% | 9.8 | 10.4 | 6% | 6% | 6.9 | 6.8 | 0% | 0% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 6% | 6% |
| 97 | April | 21.8 | 22.4 | 3% | 3% | 48.2 | 49.8 | 3% | 3% | 56.8 | 58.6 | 3% | 3% | 38.5 | 46.7 | 21% | 21% | 13.9 | 8.9 | -36% | -36% | 25.8 | 25.9 | 0% | 0% |
| 97 | May | 34.9 | 35.0 | 0% | 0% | 75.2 | 75.4 | 0% | 0% | 90.7 | 90.4 | 0% | 0% | 60.1 | 61.9 | 3% | 3% | 22.7 | 17.2 | -24% | -15% | 38.6 | 38.6 | 0% | 0% |
| 97 | June | 31.6 | 32.7 | 3% | 2% | 67.6 | 69.7 | 3% | 2% | 83.8 | 85.1 | 2% | 1% | 60.5 | 62.8 | 4% | 3% | 20.8 | 15.5 | -25% | -11% | 35.6 | 35.4 | -1% | 0% |
| 97 | July | 6.5 | 6.6 | 1% | 0% | 13.6 | 13.1 | -4% | -1% | 19.6 | 18.6 | -5% | -2% | 14.6 | 13.2 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 5.9 | -10% | -3% |
| 97 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.1 | -3% | -3% | 16.8 | 16.2 | -4% | -4% | 12.6 | 11.3 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.2 | -7% | -7% |
| 97 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 9.8 | 2% | 2% | 14.4 | 14.6 | 1% | 1% | 11.0 | 10.3 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -4% | -4% |
| 97 | October | 4.3 | 4.3 | 0% | 0% | 8.9 | 8.8 | -1% | -1% | 13.4 | 13.3 | -1% | -1% | 10.4 | 9.5 | -9% | -9% | 2.7 | 0.1 | -96% | -96% | 4.3 | 4.2 | -3% | -3% |
| 97 | November | 3.7 | 3.8 | 3% | 3% | 7.8 | 8.1 | 5% | 5% | 11.8 | 12.4 | 5% | 5% | 9.2 | 8.8 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.0 | 2% | 2% |
| 97 | December | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.7 | 7% | 7% | 11.1 | 11.8 | 6% | 6% | 8.6 | 8.1 | -5% | -5% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 11% | 11% |
| 98 | January | 3.0 | 3.0 | 0% | 0% | 6.6 | 7.1 | 8% | 8% | 10.1 | 10.9 | 8% | 8% | 7.8 | 7.5 | -4% | -4% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 14% | 14% |
| 98 | February | 2.5 | 2.7 | 9% | 9% | 5.6 | 6.4 | 15% | 15% | 8.5 | 9.9 | 17% | 17% | 6.3 | 6.9 | 9% | 9% | 1.9 | 0.0 | -100% | -100% | 3.2 | 3.4 | 7% | 7% |
| 98 | March | 2.7 | 2.7 | 0% | 0% | 6.1 | 6.5 | 6% | 6% | 9.2 | 9.8 | 7% | 7% | 6.8 | 6.9 | 2% | 2% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.5 | 9% | 9% |
| 98 | April | 28.6 | 29.4 | 3% | 3% | 63.4 | 65.9 | 4% | 4% | 75.0 | 78.3 | 4% | 4% | 51.5 | 60.8 | 18% | 18% | 18.5 | 13.2 | -29% | -29% | 34.1 | 34.6 | 1% | 1% |
| 98 | May | 66.0 | 66.1 | 0% | 0% | 143.5 | 144.7 | 1% | 1% | 175.5 | 175.8 | 0% | 0% | 123.1 | 124.1 | 1% | 1% | 44.0 | 36.0 | -18% | -18% | 74.5 | 75.5 | 1% | 1% |
| 98 | June | 40.3 | 41.8 | 4% | 3% | 85.1 | 88.1 | 4% | 3% | 107.2 | 110.4 | 3% | 2% | 79.4 | 81.5 | 3% | 3% | 25.9 | 20.1 | -22% | -12% | 44.4 | 44.4 | 0% | 0% |
| 98 | July | 6.7 | 6.8 | 1% | 0% | 13.6 | 13.0 | -4% | -1% | 20.2 | 19.1 | -5% | -3% | 15.1 | 13.6 | -10% | -5% | 3.7 | 0.8 | -78% | -20% | 6.4 | 5.7 | -11% | -3% |
| 98 | August | 5.6 | 5.7 | 1% | 1% | 11.4 | 11.0 | -3% | -3% | 17.1 | 16.3 | -5% | -5% | 13.0 | 11.6 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -8% | -8% |
| 98 | September | 4.8 | 4.9 | 3% | 3% | 9.6 | 9.7 | 1% | 1% | 14.7 | 14.6 | -1% | -1% | 11.4 | 10.5 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.4 | -6% | -6% |
| 98 | October | 4.4 | 4.3 | -1% | -1% | 8.8 | 8.7 | -2% | -2% | 13.7 | 13.3 | -3% | -3% | 10.6 | 9.6 | -10% | -10% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.0 | -4% | -4% |
| 98 | November | 3.8 | 3.9 | 2% | 2% | 7.7 | 8.2 | 6% | 6% | 12.1 | 12.6 | 4% | 4% | 9.4 | 8.9 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 98 | December | 3.5 | 3.5 | 0% | 0% | 7.3 | 7.7 | 6% | 6% | 11.4 | 11.8 | 4% | 4% | 8.7 | 8.1 | -6% | -6% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.9 | 9% | 9% |
| 99 | January | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.9 | 6% | 6% | 10.3 | 10.8 | 5% | 5% | 7.9 | 7.5 | -5% | -5% | 2.0 | 0.0 | -100% | -100% | 3.3 | 3.6 | 9% | 9% |
| 99 | February | 2.6 | 2.7 | 6% | 6% | 5.7 | 6.3 | 12% | 12% | 8.9 | 10.0 | 12% | 12% | 6.7 | 6.9 | 3% | 3% | 1.8 | 0.0 | -100% | -100% | 3.1 | 3.4 | 8% | 8% |
| 99 | March | 9.2 | 9.2 | 0% | 0% | 20.1 | 19.7 | -2% | -2% | 26.5 | 25.9 | -2% | -2% | 21.2 | 26.8 | 26% | 26% | 3.9 | 0.7 | -82% | -82% | 10.0 | 9.6 | -4% | -4% |
| 99 | April | 25.6 | 26.4 | 3% | 3% | 55.7 | 57.5 | 3% | 3% | 65.6 | 67.9 | 3% | 3% | 44.8 | 49.7 | 11% | 11% | 16.7 | 12.1 | -28% | -28% | 29.6 | 29.7 | 0% | 0% |
| 99 | May | 53.6 | 53.7 | 0% | 0% | 116.5 | 117.5 | 1% | 1% | 143.1 | 143.0 | 0% | 0% | 99.8 | 100.0 | 0% | 0% | 36.0 | 29.0 | -19% | -19% | 60.4 | 61.3 | 1% | 1% |
| 99 | June | 12.4 | 13.0 | 5% | 1% | 25.5 | 26.1 | 2% | 1% | 33.5 | 34.0 | 1% | 0% | 26.2 | 27.0 | 3% | 1% | 6.6 | 3.0 | -54% | -7% | 12.7 | 12.3 | -3% | -1% |

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| 99 | July | 6.3 | 6.3 | 1% | 0% | 13.0 | 12.6 | -3% | -1% | 19.1 | 18.3 | -4% | -2% | 14.2 | 12.8 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.3 | 5.8 | -8% | -2% |
| 99 | August | 5.4 | 5.3 | -1% | -1% | 11.0 | 10.9 | -2% | -2% | 16.5 | 16.0 | -3% | -3% | 12.3 | 11.1 | -10% | -10% | 3.4 | 0.7 | -79% | -79% | 5.3 | 5.1 | -4% | -4% |
| 99 | September | 6.5 | 6.8 | 4% | 4% | 13.5 | 13.6 | 1% | 1% | 19.3 | 19.3 | 0% | 0% | 15.4 | 16.1 | 5% | 5% | 3.5 | 0.5 | -86% | -86% | 6.7 | 6.3 | -5% | -5% |
| 99 | October | 6.5 | 6.5 | 0% | 0% | 13.4 | 13.2 | -2% | -2% | 19.1 | 18.6 | -3% | -3% | 15.0 | 14.9 | -1% | -1% | 3.5 | 0.5 | -86% | -86% | 6.5 | 6.2 | -4% | -4% |
| 99 | November | 4.8 | 5.0 | 3% | 3% | 10.1 | 10.4 | 3% | 3% | 14.7 | 15.2 | 3% | 3% | 11.2 | 10.6 | -5% | -5% | 3.1 | 0.4 | -87% | -87% | 5.1 | 5.1 | 0% | 0% |
| 99 | December | 4.3 | 4.2 | 0% | 0% | 9.0 | 9.1 | 2% | 2% | 13.3 | 13.6 | 2% | 2% | 10.2 | 9.4 | -7% | -7% | 2.8 | 0.2 | -93% | -93% | 4.5 | 4.6 | 2% | 2% |
| 100 | January | 3.7 | 3.7 | 0% | 0% | 8.0 | 8.2 | 2% | 2% | 12.0 | 12.4 | 3% | 3% | 9.1 | 8.6 | -6% | -6% | 2.5 | 0.1 | -96% | -96% | 4.1 | 4.2 | 3% | 3% |
| 100 | February | 3.0 | 3.3 | 10% | 10% | 6.6 | 7.3 | 10% | 10% | 9.9 | 11.3 | 14% | 14% | 7.5 | 8.0 | 6% | 6% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.7 | -1% | -1% |
| 100 | March | 3.5 | 3.4 | 0% | 0% | 7.5 | 7.6 | 2% | 2% | 11.0 | 11.5 | 4% | 4% | 8.3 | 8.3 | -1% | -1% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 3% | 3% |
| 100 | April | 10.5 | 10.8 | 3% | 3% | 22.8 | 23.2 | 2% | 2% | 29.1 | 29.6 | 2% | 2% | 22.1 | 28.4 | 28% | 28% | 5.1 | 1.5 | -71% | -54% | 11.8 | 11.5 | -2% | -2% |
| 100 | May | 32.2 | 32.2 | 0% | 0% | 69.9 | 70.2 | 0% | 0% | 83.0 | 83.2 | 0% | 0% | 55.3 | 58.4 | 6% | 5% | 21.1 | 15.7 | -26% | -14% | 36.1 | 36.3 | 1% | 0% |
| 100 | June | 14.6 | 15.2 | 4% | 1% | 30.7 | 31.5 | 3% | 1% | 38.3 | 38.7 | 1% | 0% | 28.0 | 29.5 | 5% | 2% | 8.4 | 4.6 | -45% | -8% | 15.7 | 15.3 | -2% | 0% |
| 100 | July | 6.1 | 6.1 | 0% | 0% | 12.9 | 12.3 | -4% | -1% | 18.4 | 17.4 | -5% | -2% | 13.4 | 12.2 | -9% | -4% | 3.8 | 0.9 | -76% | -21% | 6.3 | 5.7 | -10% | -3% |
| 100 | August | 5.3 | 5.2 | 0% | 0% | 11.0 | 10.5 | -4% | -4% | 15.9 | 15.3 | -4% | -4% | 11.9 | 10.8 | -9% | -9% | 3.4 | 0.7 | -79% | -79% | 5.4 | 4.9 | -9% | -9% |
| 100 | September | 4.4 | 4.6 | 5% | 5% | 9.3 | 9.4 | 2% | 2% | 13.7 | 14.0 | 2% | 2% | 10.5 | 9.9 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -5% | -5% |
| 100 | October | 5.0 | 5.0 | -1% | -1% | 10.5 | 10.2 | -2% | -2% | 15.1 | 15.0 | -1% | -1% | 12.1 | 12.0 | -1% | -1% | 3.0 | 0.2 | -93% | -93% | 5.1 | 4.9 | -4% | -4% |
| 100 | November | 4.0 | 4.1 | 3% | 3% | 8.5 | 9.1 | 7% | 7% | 12.5 | 13.4 | 7% | 7% | 9.7 | 9.4 | -3% | -3% | 2.6 | 0.1 | -96% | -96% | 4.4 | 4.7 | 6% | 6% |
| 100 | December | 3.6 | 3.6 | -1% | -1% | 7.9 | 8.4 | 6% | 6% | 11.6 | 12.4 | 7% | 7% | 8.8 | 8.4 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.5 | 10% | 10% |
| 101 | January | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.9 | 10% | 10% | 10.6 | 11.7 | 10% | 10% | 8.0 | 7.8 | -2% | -2% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.4 | 18% | 18% |
| 101 | February | 2.7 | 3.0 | 10% | 10% | 6.0 | 6.9 | 15% | 15% | 8.9 | 10.4 | 18% | 18% | 6.5 | 7.2 | 10% | 10% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.7 | 5% | 5% |
| 101 | March | 2.7 | 2.7 | -1% | -1% | 6.2 | 6.5 | 5% | 5% | 9.1 | 9.8 | 8% | 8% | 6.6 | 6.6 | 1% | 1% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.6 | 9% | 9% |
| 101 | April | 52.2 | 53.8 | 3% | 3% | 115.9 | 121.0 | 4% | 4% | 138.2 | 143.8 | 4% | 4% | 92.1 | 102.2 | 11% | 11% | 36.4 | 28.6 | -21% | -21% | 62.9 | 64.1 | 2% | 2% |
| 101 | May | 85.4 | 85.4 | 0% | 0% | 183.5 | 185.2 | 1% | 1% | 227.1 | 228.7 | 1% | 1% | 165.1 | 164.6 | 0% | 0% | 56.1 | 46.4 | -17% | -17% | 94.6 | 96.0 | 2% | 2% |
| 101 | June | 50.4 | 52.2 | 4% | 4% | 106.5 | 110.7 | 4% | 4% | 135.1 | 138.9 | 3% | 3% | 100.1 | 101.8 | 2% | 2% | 32.7 | 26.0 | -21% | -14% | 55.7 | 56.1 | 1% | 1% |
| 101 | July | 7.0 | 7.1 | 2% | 1% | 14.0 | 13.5 | -4% | -1% | 21.1 | 19.9 | -6% | -3% | 15.9 | 14.1 | -11% | -6% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.8 | -11% | -3% |
| 101 | August | 5.8 | 5.7 | 0% | 0% | 11.6 | 11.2 | -4% | -4% | 17.6 | 16.7 | -5% | -5% | 13.3 | 11.9 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.5 | 5.0 | -8% | -8% |
| 101 | September | 4.9 | 5.1 | 4% | 4% | 9.8 | 10.1 | 3% | 3% | 15.0 | 15.0 | 0% | 0% | 11.7 | 10.8 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -3% | -3% |
| 101 | October | 4.7 | 4.7 | 0% | 0% | 9.5 | 9.4 | -1% | -1% | 14.7 | 14.2 | -3% | -3% | 11.5 | 10.5 | -9% | -9% | 2.7 | 0.1 | -96% | -96% | 4.5 | 4.3 | -4% | -4% |
| 101 | November | 4.1 | 4.2 | 2% | 2% | 8.2 | 8.9 | 9% | 9% | 12.8 | 13.5 | 5% | 5% | 10.0 | 9.5 | -5% | -5% | 2.4 | 0.0 | -100% | -100% | 4.0 | 4.4 | 10% | 10% |
| 101 | December | 3.7 | 3.7 | 0% | 0% | 7.7 | 8.0 | 5% | 5% | 12.1 | 12.3 | 2% | 2% | 9.2 | 8.6 | -6% | -6% | 2.2 | 0.0 | -100% | -100% | 3.7 | 4.1 | 9% | 9% |
| 102 | January | 3.3 | 3.3 | 0% | 0% | 7.0 | 7.1 | 1% | 1% | 11.0 | 11.1 | 1% | 1% | 8.3 | 7.9 | -5% | -5% | 2.1 | 0.0 | -100% | -100% | 3.5 | 3.5 | 1% | 1% |
| 102 | February | 2.7 | 2.9 | 9% | 9% | 5.8 | 6.7 | 16% | 16% | 9.1 | 10.5 | 15% | 15% | 6.9 | 7.3 | 7% | 7% | 1.9 | 0.0 | -100% | -100% | 3.3 | 3.5 | 7% | 7% |
| 102 | March | 10.3 | 10.2 | 0% | 0% | 22.5 | 22.0 | -2% | -2% | 29.4 | 28.6 | -3% | -3% | 22.9 | 28.6 | 25% | 25% | 4.5 | 1.2 | -73% | -73% | 11.3 | 10.9 | -4% | -4% |
| 102 | April | 24.3 | 25.1 | 3% | 3% | 52.7 | 54.4 | 3% | 3% | 62.4 | 64.4 | 3% | 3% | 43.0 | 47.6 | 11% | 11% | 15.7 | 11.2 | -29% | -29% | 27.9 | 28.0 | 0% | 0% |
| 102 | May | 33.4 | 33.5 | 0% | 0% | 71.7 | 71.8 | 0% | 0% | 88.6 | 87.5 | -1% | -1% | 61.1 | 61.7 | 1% | 1% | 21.6 | 16.3 | -25% | -14% | 36.7 | 36.6 | 0% | 0% |
| 102 | June | 7.0 | 7.3 | 4% | 1% | 14.7 | 14.7 | 0% | 0% | 21.1 | 20.6 | -2% | 0% | 15.8 | 15.6 | -1% | 0% | 4.0 | 0.9 | -78% | -6% | 7.4 | 6.7 | -9% | -1% |
| 102 | July | 5.9 | 5.8 | 0% | 0% | 12.2 | 11.6 | -5% | -2% | 17.8 | 16.8 | -6% | -2% | 13.3 | 12.1 | -9% | -4% | 3.6 | 0.7 | -81% | -21% | 5.9 | 5.3 | -11% | -3% |
| 102 | August | 5.0 | 5.0 | 0% | 0% | 10.3 | 9.9 | -4% | -4% | 15.3 | 14.8 | -4% | -4% | 11.7 | 10.6 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 5.0 | 4.6 | -9% | -9% |
| 102 | September | 6.0 | 6.2 | 4% | 4% | 12.4 | 12.5 | 1% | 1% | 17.7 | 17.8 | 1% | 1% | 14.2 | 15.0 | 6% | 6% | 3.3 | 0.2 | -94% | -94% | 6.1 | 5.8 | -6% | -6% |
| 102 | October | 13.1 | 13.0 | -1% | -1% | 28.2 | 28.1 | 0% | 0% | 35.7 | 35.2 | -1% | -1% | 27.7 | 30.6 | 10% | 10% | 6.7 | 2.8 | -58% | -58% | 14.2 | 14.2 | 0% | 0% |
| 102 | November | 5.5 | 5.6 | 3% | 3% | 11.5 | 12.2 | 5% | 5% | 16.4 | 17.2 | 5% | 5% | 12.3 | 11.6 | -5% | -5% | 3.6 | 0.7 | -80% | -80% | 5.8 | 6.0 | 4% | 4% |
| 102 | December | 4.8 | 4.8 | 0% | 0% | 10.3 | 10.6 | 4% | 4% | 14.7 | 15.2 | 4% | 4% | 11.0 | 10.0 | -8% | -8% | 3.3 | 0.5 | -85% | -85% | 5.1 | 5.4 | 6% | 6% |
| 103 | January | 4.2 | 4.2 | 0% | 0% | 9.1 | 9.5 | 5% | 5% | 13.1 | 13.9 | 6% | 6% | 9.9 | 9.1 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.6 | 5.0 | 8% | 8% |
| 103 | February | 3.5 | 3.7 | 7% | 7% | 7.6 | 8.4 | 12% | 12% | 11.1 | 12.6 | 14% | 14% | 8.4 | 8.4 | 0% | 0% | 2.6 | 0.1 | -96% | -96% | 4.2 | 4.4 | 7% | 7% |
| 103 | March | 3.4 | 3.3 | -1% | -1% | 7.4 | 7.6 | 3% | 3% | 10.9 | 11.5 | 6% | 6% | 8.2 | 7.9 | -4% | -4% | 2.4 | 0.0 | -100% | -100% | 3.8 | 4.0 | 4% | 4% |
| 103 | April | 4.1 | 4.3 | 3% | 2% | 8.8 | 9.1 | 3% | 1% | 12.6 | 13.3 | 5% | 3% | 9.9 | 11.0 | 12% | 8% | 2.5 | 0.0 | -100% | -38% | 4.5 | 4.4 | -2% | -1% |
| 103 | May | 67.6 | 67.4 | 0% | 0% | 149.2 | 150.2 | 1% | 1% | 179.3 | 179.7 | 0% | 0% | 121.7 | 126.9 | 4% | 4% | 46.0 | 37.1 | -19% | -19% | 78.4 | 79.3 | 1% | 1% |
| 103 | June | 53.1 | 54.9 | 4% | 4% | 113.0 | 117.5 | 4% | 4% | 140.8 | 146.2 | 4% | 4% | 102.4 | 105.8 | 3% | 3% | 35.1 | 28.1 | -20% | -14% | 59.6 | 60.1 | 1% | 1% |
| 103 | July | 6.8 | 6.9 | 1% | 1% | 13.6 | 13.2 | -3% | -1% | 20.2 | 19.3 | -5% | -2% | 15.2 | 13.6 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.7 | -9% | -3% |
| 103 | August | 5.7 | 5.7 | 0% | 0% | 11.5 | 11.1 | -3% | -3% | 17.3 | 16.4 | -5% | -5% | 13.1 | 11.8 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 4.9 | -9% | -9% |
| 103 | September | 4.9 | 5.0 | 2% | 2% | 9.8 | 9.9 | 2% | 2% | 14.9 | 14.8 | 0% | 0% | 11.5 | 10.7 | -7% | -7% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.6 | -3% | -3% |
| 103 | October | 4.5 | 4.4 | -1% | -1% | 9.0 | 8.9 | -1% | -1% | 13.9 | 13.6 | -2% | -2% | 10.8 | 9.8 | -9% | -9% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.1 | -2% | -2% |
| 103 | November | 4.3 | 4.4 | 3% | 3% | 8.6 | 9.0 | 4% | 4% | 13.2 | 13.6 | 3% | 3% | 10.4 | 10.1 | -3% | -3% | 2.5 | 0.0 | -100% | -100% | 4.2 | 4.2 | 0% | 0% |
| 103 | December | 3.9 | 3.8 | -1% | -1% | 7.9 | 8.2 | 4% | 4% | 12.3 | 12.5 | 2% | 2% | 9.5 | 8.9 | -5% | -5% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.1 | 7% | 7% |
| 104 | January | 3.4 | 3.4 | -1% | -1% | 7.2 | 7.4 | 3% | 3% | 11.1 | 11.4 | 3% | 3% | 8.4 | 8.1 | -4% | -4% | 2.1 | 0.0 | -100% | -100% | 3.6 | 3.8 | 5% | 5% |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.7 | 12% | 12% | 9.2 | 10.4 | 14% | 14% | 7.0 | 7.5 | 7% | 7% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.4 | 2% | 2% |
| 104 | March | 2.8 | 2.7 | -1% | -1% | 6.2 | 6.5 | 6% | 6% | 9.4 | 10.0 | 7% | 7% | 7.0 | 6.9 | -1% | -1% | 1.8 | 0.0 | -100% | -100% | 3.2 | 3.5 | 10% | 10% |
| 104 | April | 15.7 | 16.1 | 3% | 3% | 34.9 | 35.9 | 3% | 3% | 42.8 | 43.6 | 2% | 2% | 31.3 | 39.6 | 26% | 26% | 8.8 | 4.8 | -45% | -45% | 18.5 | 18.5 | 0% | 0% |
| 104 | May | 57.6 | 57.7 | 0% | 0% | 125.6 | 126.6 | 1% | 1% | 151.5 | 151.9 | 0% | 0% | 103.5 | 105.2 | 2% | 2% | 38.7 | 31.3 | -19% | -19% | 65.3 | 66.2 | 1% | 1% |
| 104 | June | 38.4 | 39.8 | 4% | 3% | 81.6 | 84.8 | 4% | 3% | 102.1 | 105.7 | 4% | 3% | 75.1 | 77.7 | 3% | 3% | 25.0 | 19.3 | -23% | -12% | 42.8 | 43.1 | 1% | 0% |
| 104 | July | 6.6 | 6.6 | 1% | 1% | 13.4 | 12.9 | -4% | -1% | 19.9 | 19.0 | -5% | -2% | 14.8 | 13.4 | -10% | -5% | 3.6 | 0.8 | -78% | -20% | 6.4 | 5.8 | -9% | -3% |
| 104 | August | 5.6 | 5.6 | 0% | 0% | 11.3 | 11.0 | -2% | -2% | 17.0 | 16.3 | -4% | -4% | 12.9 | 11.5 | -10% | -10% | 3.3 | 0.6 | -82% | -82% | 5.4 | 5.0 | -6% | -6% |
| 104 | September | 4.7 | 4.8 | 3% | 3% | 9.5 | 9.6 | 1% | 1% | 14.6 | 14.5 | -1% | -1% | 11.3 | 10.4 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.4 | -7% | -7% |
| 104 | October | 12.3 | 12.2 | 0% | 0% | 26.3 | 26.2 | 0% | 0% | 34.3 | 33.4 | -3% | -3% | 27.4 | 30.4 | 11% | 11% | 6.0 | 2.2 | -63% | -63% | 13.1 | 13.1 | 0% | 0% |
| 104 | November | 5.2 | 5.4 | 3% | 3% | 10.8 | 11.3 | 5% | 5% | 15.8 | 16.3 | 3% | 3% | 11.9 | 11.1 | -7% | -7% | 3.2 | 0.6 | -81% | -81% | 5.3 | 5.4 | 1% | 1% |
| 104 | December | 4.7 | 4.7 | 0% | 0% | 9.7 | 9.8 | 1% | 1% | 14.3 | 14.5 | 1% | 1% | 10.8 | 9.7 | -10% | -10% | 3.0 | 0.4 | -87% | -87% | 4.7 | 4.8 | 1% | 1% |
| 105 | January | 4.2 | 4.1 | -2% | -2% | 8.7 | 8.9 | 2% | 2% | 12.9 | 13.3 | 3% | 3% | 9.8 | 8.9 | -9% | -9% | 2.7 | 0.3 | -89% | -89% | 4.3 | 4.5 | 6% | 6% |
| 105 | February | 3.3 | 3.6 | 10% | 10% | 6.9 | 7.8 | 13% | 13% | 10.5 | 12.0 | 14% | 14% | 8.0 | 8.2 | 3% | 3% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.0 | 3% | 3% |
| 105 | March | 3.4 | 3.4 | 0% | 0% | 7.4 | 7.6 | 2% | 2% | 11.1 | 11.6 | 4% | 4% | 8.5 | 8.2 | -4% | -4% | 2.3 | 0.0 | -100% | -100% | 3.8 | 3.9 | 4% | 4% |
| 105 | April | 13.8 | 14.7 | 6% | 6% | 30.4 | 32.3 | 6% | 6% | 37.7 | 39.8 | 6% | 6% | 28.0 | 35.8 | 28% | 28% | 7.8 | 3.8 | -51% | -51% | 16.0 | 15.9 | -1% | -1% |
| 105 | May | 38.3 | 37.2 | -3% | -3% | 83.0 | 81.0 | -2% | -2% | 100.0 | 97.2 | -3% | -2% | 66.5 | 66.4 | 0% | 0% | 25.5 | 19.6 | -23% | -16% | 42.8 | 43.3 | 1% | 1% |
| 105 | June | 68.5 | 73.2 | 7% | 7% | 148.2 | 160.0 | 8% | 8% | 183.6 | 197.7 | 8% | 8% | 132.7 | 141.0 | 6% | 6% | 47.3 | 38.7 | -18% | -18% | 79.3 | 80.7 | 2% | 2% |
| 105 | July | 6.8 | 7.0 | 2% | 1% | 13.9 | 13.6 | -2% | -1% | 20.7 | 19.9 | -4% | -2% | 15.3 | 13.8 | -10% | -5% | 3.8 | 0.9 | -76% | -21% | 6.6 | 6.1 | -8% | -2% |
| 105 | August | 5.7 | 5.7 | 0% | 0% | 11.7 | 11.3 | -3% | -3% | 17.5 | 16.7 | -4% | -4% | 13.2 | 11.8 | -11% | -11% | 3.4 | 0.7 | -79% | -79% | 5.5 | 5.1 | -7% | -7% |
| 105 | September | 4.9 | 5.0 | 3% | 3% | 9.8 | 9.9 | 1% | 1% | 14.9 | 14.9 | 0% | 0% | 11.5 | 10.7 | -8% | -8% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.5 | -6% | -6% |
| 105 | October | 7.2 | 7.2 | 0% | 0% | 14.8 | 14.6 | -2% | -2% | 21.1 | 20.4 | -3% | -3% | 17.3 | 18.2 | 5% | 5% | 3.3 | 0.2 | -94% | -94% | 7.1 | 6.8 | -4% | -4% |
| 105 | November | 4.8 | 4.9 | 3% | 3% | 9.8 | 10.3 | 6% | 6% | 14.6 | 15.1 | 4% | 4% | 11.3 | 10.6 | -6% | -6% | 2.9 | 0.2 | -93% | -93% | 4.8 | 5.0 | 3% | 3% |
| 105 | December | 4.3 | 4.3 | 0% | 0% | 8.8 | 9.2 | 5% | 5% | 13.3 | 13.7 | 3% | 3% | 10.2 | 9.3 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.6 | 8% | 8% |
| 106 | January | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.1 | 3% | 3% | 12.0 | 12.4 | 3% | 3% | 9.1 | 8.5 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 3.9 | 4.1 | 5% | 5% |
| 106 | February | 3.0 | 3.3 | 10% | 10% | 6.5 | 7.4 | 14% | 14% | 9.9 | 11.3 | 15% | 15% | 7.5 | 7.9 | 5% | 5% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.8 | 3% | 3% |
| 106 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 7.1 | 8% | 8% | 10.0 | 10.8 | 8% | 8% | 7.6 | 7.3 | -3% | -3% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.9 | 15% | 15% |
| 106 | April | 6.9 | 7.2 | 4% | 4% | 14.9 | 15.3 | 3% | 2% | 20.3 | 20.9 | 3% | 3% | 17.0 | 21.7 | 27% | 27% | 3.0 | 0.0 | -100% | -45% | 7.5 | 7.4 | -1% | -1% |
| 106 | May | 57.8 | 57.7 | 0% | 0% | 127.3 | 128.2 | 1% | 1% | 152.2 | 152.4 | 0% | 0% | 101.7 | 105.5 | 4% | 4% | 39.4 | 31.6 | -20% | -20% | 66.7 | 67.6 | 1% | 1% |
| 106 | June | 64.7 | 67.0 | 3% | 3% | 139.0 | 144.8 | 4% | 4% | 172.8 | 179.9 | 4% | 4% | 125.8 | 129.3 | 3% | 3% | 43.9 | 35.7 | -19% | -17% | 73.8 | 74.8 | 1% | 1% |
| 106 | July | 6.8 | 6.9 | 2% | 1% | 13.6 | 13.2 | -3% | -1% | 20.3 | 19.4 | -5% | -2% | 15.2 | 13.6 | -11% | -5% | 3.6 | 0.8 | -78% | -20% | 6.3 | 5.8 | -9% | -2% |
| 106 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 10.9 | -4% | -4% | 17.2 | 16.3 | -5% | -5% | 13.1 | 11.7 | -11% | -11% | 3.3 | 0.6 | -82% | -82% | 5.3 | 4.8 | -9% | -9% |
| 106 | September | 4.8 | 4.9 | 3% | 3% | 9.6 | 9.7 | 0% | 0% | 14.7 | 14.6 | -1% | -1% | 11.4 | 10.6 | -8% | -8% | 2.9 | 0.3 | -90% | -90% | 4.7 | 4.4 | -7% | -7% |
| 106 | October | 7.8 | 7.8 | 0% | 0% | 16.1 | 15.8 | -2% | -2% | 22.6 | 21.8 | -4% | -4% | 18.8 | 20.2 | 7% | 7% | 3.4 | 0.2 | -94% | -94% | 7.6 | 7.4 | -3% | -3% |
| 106 | November | 4.8 | 5.0 | 3% | 3% | 9.9 | 10.3 | 5% | 5% | 14.7 | 15.1 | 3% | 3% | 11.3 | 10.7 | -6% | -6% | 2.9 | 0.3 | -90% | -90% | 4.8 | 5.0 | 3% | 3% |
| 106 | December | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.0 | 1% | 1% | 13.5 | 13.5 | 1% | 1% | 10.2 | 9.4 | -9% | -9% | 2.7 | 0.2 | -93% | -93% | 4.3 | 4.4 | 2% | 2% |
| 107 | January | 3.8 | 3.8 | -1% | -1% | 8.0 | 8.3 | 5% | 5% | 12.1 | 12.6 | 4% | 4% | 9.2 | 8.5 | -7% | -7% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.3 | 8% | 8% |
| 107 | February | 3.1 | 3.3 | 7% | 7% | 6.7 | 7.4 | 10% | 10% | 10.3 | 11.4 | 11% | 11% | 7.8 | 7.9 | 1% | 1% | 2.2 | 0.0 | -100% | -100% | 3.7 | 3.8 | 5% | 5% |
| 107 | March | 3.2 | 3.1 | 0% | 0% | 6.9 | 7.6 | 10% | 10% | 10.4 | 11.3 | 9% | 9% | 7.9 | 7.7 | -2% | -2% | 2.1 | 0.0 | -100% | -100% | 3.5 | 4.1 | 18% | 18% |
| 107 | April | 42.4 | 43.7 | 3% | 3% | 94.1 | 97.9 | 4% | 4% | 112.5 | 116.6 | 4% | 4% | 75.6 | 84.7 | 12% | 12% | 29.4 | 22.5 | -23% | -23% | 51.0 | 51.7 | 1% | 1% |
| 107 | May | 60.6 | 60.7 | 0% | 0% | 130.7 | 131.9 | 1% | 1% | 161.5 | 162.2 | 0% | 0% | 116.3 | 116.9 | 0% | 0% | 39.8 | 32.2 | -19% | -19% | 67.5 | 68.4 | 1% | 1% |
| 107 | June | 30.2 | 31.3 | 3% | 2% | 63.2 | 65.2 | 3% | 2% | 80.7 | 82.5 | 2% | 1% | 60.1 | 61.6 | 3% | 2% | 18.8 | 13.8 | -27% | -10% | 32.6 | 32.4 | -1% | 0% |
| 107 | July | 6.7 | 6.8 | 1% | 0% | 13.7 | 13.1 | -4% | -1% | 20.4 | 19.4 | -5% | -2% | 15.2 | 13.7 | -10% | -5% | 3.7 | 0.9 | -76% | -20% | 6.5 | 5.8 | -10% | -3% |
| 107 | August | 5.6 | 5.6 | 1% | 1% | 11.4 | 11.0 | -4% | -4% | 17.2 | 16.4 | -5% | -5% | 13.0 | 11.7 | -10% | -10% | 3.4 | 0.6 | -82% | -82% | 5.5 | 4.9 | -10% | -10% |
| 107 | September | 4.8 | 4.9 | 3% | 3% | 9.7 | 9.7 | 0% | 0% | 14.8 | 14.7 | -1% | -1% | 11.3 | 10.5 | -7% | -7% | 2.9 | 0.4 | -86% | -86% | 4.7 | 4.4 | -7% | -7% |
| 107 | October | 11.1 | 11.1 | 0% | 0% | 23.7 | 23.5 | -1% | -1% | 31.4 | 30.5 | -3% | -3% | 25.5 | 28.2 | 11% | 11% | 5.2 | 1.4 | -73% | -73% | 11.7 | 11.5 | -1% | -1% |
| 107 | November | 5.4 | 5.6 | 4% | 4% | 11.1 | 11.6 | 5% | 5% | 16.2 | 16.8 | 3% | 3% | 12.3 | 11.6 | -6% | -6% | 3.2 | 0.5 | -85% | -85% | 5.4 | 5.6 | 3% | 3% |
| 107 | December | 4.8 | 4.8 | 0% | 0% | 10.0 | 10.5 | 5% | 5% | 14.7 | 15.2 | 4% | 4% | 11.0 | 10.0 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 5.4 | 11% | 11% |
| 108 | January | 4.2 | 4.2 | -1% | -1% | 8.8 | 9.0 | 2% | 2% | 13.1 | 13.5 | 2% | 2% | 9.9 | 9.1 | -8% | -8% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.5 | 3% | 3% |
| 108 | February | 3.3 | 3.6 | 10% | 10% | 7.1 | 7.9 | 12% | 12% | 10.7 | 12.1 | 14% | 14% | 8.1 | 8.4 | 3% | 3% | 2.5 | 0.1 | -96% | -96% | 4.0 | 4.0 | 0% | 0% |
| 108 | March | 3.6 | 3.6 | 0% | 0% | 7.8 | 7.8 | 0% | 0% | 11.7 | 11.9 | 2% | 2% | 8.9 | 8.6 | -3% | -3% | 2.4 | 0.0 | -100% | -100% | 3.9 | 3.9 | -1% | -1% |
| 108 | April | 21.2 | 21.8 | 3% | 3% | 46.7 | 48.1 | 3% | 3% | 55.8 | 57.6 | 3% | 3% | 39.7 | 47.1 | 19% | 19% | 13.3 | 8.5 | -36% | -36% | 24.9 | 24.9 | 0% | 0% |
| 108 | May | 44.0 | 44.0 | 0% | 0% | 95.1 | 95.6 | 0% | 0% | 116.6 | 115.9 | -1% | -1% | 79.2 | 80.5 | 2% | 2% | 29.2 | 22.9 | -22% | -17% | 49.1 | 49.4 | 1% | 1% |
| 108 | June | 27.3 | 28.3 | 4% | 2% | 57.9 | 59.8 | 3% | 2% | 72.8 | 75.1 | 3% | 2% | 53.7 | 55.8 | 4% | 3% | 17.5 | 12.6 | -28% | -10% | 30.2 | 30.0 | -1% | 0% |
| 108 | July | 6.6 | 6.7 | 1% | 0% | 13.8 | 13.2 | -4% | -2% | 20.2 | 19.3 | -4% | -2% | 14.8 | 13.5 | -9% | -4% | 3.9 | 0.9 | -77% | -21% | 6.7 | 5.9 | -11% | -3% |
| 108 | August | 5.5 | 5.6 | 0% | 0% | 11.5 | 11.1 | -3% | -3% | 17.1 | 16.5 | -4% | -4% | 12.8 | 11.5 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.6 | 5.1 | -9% | -9% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 108 | September | 27.4 | 28.2 | 3% | 3% | 59.1 | 61.4 | 4% | 4% | 73.2 | 75.6 | 3% | 3% | 53.6 | 58.0 | 8% | 8% | 17.6 | 12.3 | -30% | -30% | 31.2 | 31.6 | 1% | 1% |
| 108 | October | 6.3 | 6.3 | 1% | 1% | 13.0 | 12.9 | -1% | -1% | 19.1 | 18.8 | -2% | -2% | 14.1 | 12.8 | -9% | -9% | 3.7 | 0.8 | -78% | -78% | 6.3 | 6.1 | -3% | -3% |
| 108 | November | 5.2 | 5.3 | 3% | 3% | 10.7 | 11.1 | 4% | 4% | 16.0 | 16.4 | 3% | 3% | 11.8 | 11.0 | -7% | -7% | 3.4 | 0.6 | -82% | -82% | 5.4 | 5.4 | 0% | 0% |
| 108 | December | 4.7 | 4.7 | 1% | 1% | 9.7 | 9.8 | 1% | 1% | 14.6 | 14.7 | 1% | 1% | 11.2 | 10.1 | -9% | -9% | 3.0 | 0.3 | -90% | -90% | 4.7 | 4.8 | 2% | 2% |
| 109 | January | 4.1 | 4.1 | -1% | -1% | 8.6 | 8.7 | 1% | 1% | 13.1 | 13.4 | 2% | 2% | 10.1 | 9.3 | -8% | -8% | 2.6 | 0.1 | -96% | -96% | 4.3 | 4.4 | 2% | 2% |
| 109 | February | 3.3 | 3.6 | 10% | 10% | 7.0 | 8.1 | 15% | 15% | 10.8 | 12.5 | 16% | 16% | 8.3 | 8.6 | 4% | 4% | 2.4 | 0.0 | -100% | -100% | 3.9 | 4.2 | 8% | 8% |
| 109 | March | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.2 | 6% | 6% | 11.7 | 12.5 | 6% | 6% | 9.2 | 8.8 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.3 | 12% | 12% |
| 109 | April | 20.1 | 20.6 | 3% | 3% | 44.3 | 45.7 | 3% | 3% | 53.2 | 54.9 | 3% | 3% | 38.6 | 45.9 | 19% | 19% | 12.3 | 7.5 | -39% | -39% | 23.6 | 23.6 | 0% | 0% |
| 109 | May | 46.3 | 46.4 | 0% | 0% | 100.4 | 100.9 | 0% | 0% | 123.0 | 122.4 | -1% | -1% | 84.4 | 85.6 | 1% | 1% | 30.9 | 24.3 | -21% | -17% | 51.9 | 52.2 | 1% | 1% |
| 109 | June | 19.5 | 20.3 | 4% | 2% | 40.8 | 41.9 | 3% | 1% | 51.9 | 53.3 | 3% | 1% | 38.9 | 40.6 | 4% | 2% | 11.7 | 7.5 | -36% | -9% | 20.9 | 20.5 | -2% | -1% |
| 109 | July | 6.5 | 6.5 | 1% | 0% | 13.6 | 12.9 | -5% | -2% | 19.8 | 18.8 | -5% | -2% | 14.6 | 13.3 | -9% | -4% | 3.9 | 0.9 | -77% | -21% | 6.6 | 5.8 | -11% | -3% |
| 109 | August | 5.5 | 5.5 | 0% | 0% | 11.4 | 11.1 | -2% | -2% | 16.9 | 16.4 | -3% | -3% | 12.6 | 11.4 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.2 | -6% | -6% |
| 109 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 9.8 | 1% | 1% | 14.5 | 14.8 | 2% | 2% | 11.1 | 10.4 | -6% | -6% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -4% | -4% |
| 109 | October | 7.2 | 7.2 | 0% | 0% | 14.9 | 14.6 | -2% | -2% | 20.9 | 20.5 | -2% | -2% | 17.0 | 18.1 | 7% | 7% | 3.4 | 0.2 | -94% | -94% | 7.2 | 6.9 | -4% | -4% |
| 109 | November | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.4 | 7% | 7% | 14.2 | 15.1 | 6% | 6% | 11.0 | 10.4 | -5% | -5% | 2.9 | 0.3 | -90% | -90% | 4.9 | 5.2 | 7% | 7% |
| 109 | December | 4.1 | 4.1 | 0% | 0% | 8.8 | 9.1 | 4% | 4% | 13.0 | 13.5 | 4% | 4% | 9.9 | 9.2 | -7% | -7% | 2.7 | 0.2 | -93% | -93% | 4.4 | 4.7 | 7% | 7% |
| 110 | January | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.0 | 3% | 3% | 11.7 | 12.2 | 4% | 4% | 9.0 | 8.5 | -6% | -6% | 2.4 | 0.1 | -96% | -96% | 4.0 | 4.1 | 4% | 4% |
| 110 | February | 3.9 | 4.3 | 11% | 11% | 8.3 | 9.3 | 12% | 12% | 12.0 | 13.7 | 14% | 14% | 9.6 | 11.2 | 16% | 16% | 2.6 | 0.0 | -100% | -100% | 4.5 | 4.6 | 1% | 1% |
| 110 | March | 11.3 | 11.2 | -1% | -1% | 24.8 | 24.4 | -2% | -2% | 31.4 | 30.9 | -2% | -2% | 23.8 | 28.3 | 19% | 19% | 5.6 | 1.9 | -66% | -66% | 12.6 | 12.3 | -2% | -2% |
| 110 | April | 19.0 | 19.6 | 3% | 3% | 40.8 | 42.0 | 3% | 3% | 48.5 | 49.8 | 3% | 3% | 34.0 | 37.6 | 10% | 10% | 12.1 | 7.8 | -35% | -35% | 21.4 | 21.2 | -1% | -1% |
| 110 | May | 35.4 | 35.5 | 0% | 0% | 76.3 | 76.5 | 0% | 0% | 93.5 | 93.0 | -1% | 0% | 63.3 | 64.3 | 1% | 1% | 23.4 | 17.8 | -24% | -15% | 39.2 | 39.2 | 0% | 0% |
| 110 | June | 6.3 | 6.6 | 4% | 1% | 13.3 | 13.4 | 0% | 0% | 19.0 | 18.8 | -1% | 0% | 13.9 | 13.2 | -5% | -1% | 4.0 | 1.0 | -75% | -6% | 6.7 | 6.2 | -8% | -1% |
| 110 | July | 5.5 | 5.5 | 0% | 0% | 11.6 | 11.2 | -3% | -1% | 16.8 | 16.3 | -3% | -1% | 12.5 | 11.3 | -9% | -4% | 3.6 | 0.7 | -80% | -20% | 5.7 | 5.3 | -7% | -2% |
| 110 | August | 4.8 | 4.8 | 0% | 0% | 10.1 | 9.7 | -4% | -4% | 14.9 | 14.5 | -3% | -3% | 11.4 | 10.4 | -9% | -9% | 3.1 | 0.4 | -87% | -87% | 4.9 | 4.5 | -8% | -8% |
| 110 | September | 5.1 | 5.3 | 3% | 3% | 10.7 | 10.7 | 1% | 1% | 15.5 | 15.7 | 2% | 2% | 12.4 | 12.6 | 2% | 2% | 3.1 | 0.2 | -94% | -94% | 5.3 | 5.1 | -5% | -5% |
| 110 | October | 4.6 | 4.5 | -1% | -1% | 9.6 | 9.4 | -2% | -2% | 14.0 | 13.9 | 0% | 0% | 10.9 | 10.3 | -6% | -6% | 2.8 | 0.1 | -96% | -96% | 4.7 | 4.5 | -4% | -4% |
| 110 | November | 3.8 | 3.9 | 3% | 3% | 8.1 | 8.5 | 5% | 5% | 11.9 | 12.7 | 7% | 7% | 9.2 | 9.1 | -1% | -1% | 2.5 | 0.1 | -96% | -96% | 4.2 | 4.3 | 3% | 3% |
| 110 | December | 3.5 | 3.5 | 0% | 0% | 7.6 | 8.2 | 8% | 8% | 11.2 | 12.2 | 9% | 9% | 8.6 | 8.3 | -3% | -3% | 2.3 | 0.0 | -100% | -100% | 3.9 | 4.5 | 15% | 15% |
| 111 | January | 3.2 | 3.2 | -1% | -1% | 7.0 | 7.3 | 5% | 5% | 10.3 | 11.1 | 7% | 7% | 7.8 | 7.7 | -1% | -1% | 2.2 | 0.0 | -100% | -100% | 3.6 | 3.9 | 8% | 8% |
| 111 | February | 2.7 | 2.9 | 6% | 6% | 6.1 | 6.7 | 10% | 10% | 9.0 | 10.1 | 13% | 13% | 6.6 | 7.1 | 8% | 8% | 2.0 | 0.0 | -100% | -100% | 3.4 | 3.6 | 5% | 5% |
| 111 | March | 3.9 | 3.9 | 0% | 0% | 8.4 | 8.7 | 4% | 4% | 12.0 | 12.5 | 5% | 5% | 9.3 | 10.6 | 14% | 14% | 2.2 | 0.0 | -100% | -100% | 4.2 | 4.5 | 7% | 7% |
| 111 | April | 58.8 | 60.7 | 3% | 3% | 130.2 | 135.6 | 4% | 4% | 155.4 | 161.2 | 4% | 4% | 104.8 | 114.6 | 9% | 9% | 40.9 | 32.6 | -20% | -20% | 70.6 | 71.7 | 2% | 2% |
| 111 | May | 48.3 | 48.4 | 0% | 0% | 102.9 | 103.6 | 1% | 1% | 127.3 | 127.7 | 0% | 0% | 92.9 | 93.6 | 1% | 1% | 30.6 | 24.2 | -21% | -17% | 52.4 | 52.9 | 1% | 1% |
| 111 | June | 16.6 | 17.3 | 4% | 1% | 33.9 | 34.7 | 2% | 1% | 44.1 | 44.7 | 1% | 0% | 34.1 | 35.1 | 3% | 1% | 9.1 | 5.2 | -43% | -8% | 17.0 | 16.5 | -3% | -1% |
| 111 | July | 6.6 | 6.6 | 0% | 0% | 13.6 | 13.1 | -4% | -1% | 19.9 | 18.9 | -5% | -2% | 14.9 | 13.7 | -8% | -4% | 3.8 | 0.9 | -76% | -21% | 6.5 | 5.9 | -9% | -3% |
| 111 | August | 5.7 | 5.6 | 0% | 0% | 11.6 | 11.1 | -4% | -4% | 17.2 | 16.3 | -5% | -5% | 12.9 | 11.7 | -10% | -10% | 3.5 | 0.7 | -80% | -80% | 5.5 | 5.1 | -8% | -8% |
| 111 | September | 4.8 | 4.9 | 3% | 3% | 9.8 | 9.9 | 2% | 2% | 14.8 | 14.8 | 0% | 0% | 11.3 | 10.5 | -7% | -7% | 3.0 | 0.4 | -87% | -87% | 4.8 | 4.6 | -4% | -4% |
| 111 | October | 17.2 | 17.2 | 0% | 0% | 37.3 | 37.3 | 0% | 0% | 46.5 | 45.6 | -2% | -2% | 35.4 | 38.7 | 9% | 9% | 9.7 | 5.4 | -45% | -45% | 18.9 | 19.0 | 0% | 0% |
| 111 | November | 6.0 | 6.2 | 3% | 3% | 12.3 | 12.6 | 3% | 3% | 17.9 | 18.1 | 1% | 1% | 13.2 | 12.6 | -5% | -5% | 3.6 | 0.6 | -83% | -83% | 6.0 | 6.0 | -1% | -1% |
| 111 | December | 5.2 | 5.2 | 0% | 0% | 10.7 | 11.0 | 2% | 2% | 15.9 | 16.0 | 1% | 1% | 11.8 | 10.8 | -9% | -9% | 3.3 | 0.5 | -85% | -85% | 5.2 | 5.4 | 4% | 4% |
| 112 | January | 4.5 | 4.5 | 0% | 0% | 9.4 | 9.8 | 4% | 4% | 14.1 | 14.5 | 3% | 3% | 10.6 | 9.7 | -9% | -9% | 2.9 | 0.3 | -90% | -90% | 4.7 | 5.0 | 7% | 7% |
| 112 | February | 3.6 | 4.0 | 10% | 10% | 7.6 | 9.3 | 22% | 22% | 11.5 | 13.7 | 19% | 19% | 8.7 | 8.9 | 3% | 3% | 2.6 | 0.1 | -96% | -96% | 4.2 | 5.0 | 19% | 19% |
| 112 | March | 18.5 | 18.4 | -1% | -1% | 40.4 | 40.8 | 1% | 1% | 49.1 | 49.3 | 0% | 0% | 35.8 | 40.6 | 13% | 13% | 10.8 | 6.3 | -42% | -42% | 20.6 | 21.2 | 3% | 3% |
| 112 | April | 38.1 | 39.4 | 4% | 4% | 82.2 | 85.8 | 4% | 4% | 101.2 | 104.6 | 3% | 3% | 68.7 | 72.1 | 5% | 5% | 26.1 | 20.1 | -23% | -23% | 43.7 | 44.4 | 2% | 2% |
| 112 | May | 92.3 | 92.2 | 0% | 0% | 199.5 | 201.2 | 1% | 1% | 248.6 | 250.5 | 1% | 1% | 180.5 | 178.5 | -1% | -1% | 61.9 | 51.3 | -17% | -17% | 103.3 | 104.8 | 1% | 1% |
| 112 | June | 65.7 | 67.9 | 3% | 3% | 139.7 | 145.3 | 4% | 4% | 177.0 | 182.6 | 3% | 3% | 130.8 | 132.1 | 1% | 1% | 43.8 | 35.5 | -19% | -17% | 73.6 | 74.4 | 1% | 1% |
| 112 | July | 7.5 | 7.6 | 2% | 1% | 15.3 | 14.8 | -3% | -1% | 22.8 | 21.6 | -5% | -3% | 17.1 | 15.2 | -11% | -6% | 4.2 | 1.1 | -74% | -22% | 7.2 | 6.5 | -10% | -3% |
| 112 | August | 6.2 | 6.2 | 1% | 1% | 12.7 | 12.2 | -4% | -4% | 18.9 | 18.0 | -5% | -5% | 14.2 | 12.7 | -11% | -11% | 3.7 | 0.7 | -81% | -81% | 6.1 | 5.5 | -9% | -9% |
| 112 | September | 12.7 | 13.2 | 4% | 4% | 26.6 | 27.4 | 3% | 3% | 35.0 | 35.3 | 1% | 1% | 28.5 | 31.1 | 9% | 9% | 6.4 | 2.5 | -61% | -61% | 13.4 | 13.3 | -1% | -1% |
| 112 | October | 11.6 | 11.6 | 0% | 0% | 24.0 | 23.9 | 0% | 0% | 31.8 | 31.2 | -2% | -2% | 24.5 | 24.7 | 1% | 1% | 6.1 | 2.5 | -59% | -59% | 11.6 | 11.4 | -1% | -1% |
| 112 | November | 6.0 | 6.2 | 3% | 3% | 12.6 | 13.3 | 6% | 6% | 18.3 | 19.0 | 4% | 4% | 13.4 | 12.6 | -6% | -6% | 4.0 | 1.0 | -75% | -75% | 6.3 | 6.6 | 5% | 5% |
| 112 | December | 5.3 | 5.3 | 0% | 0% | 11.1 | 11.2 | 1% | 1% | 16.5 | 16.5 | 0% | 0% | 12.1 | 11.0 | -9% | -9% | 3.6 | 0.7 | -80% | -80% | 5.5 | 5.5 | 0% | 0% |

| | | 13310800 (EFSFSR above Meadow) | | | | 13311000 (EFSFSR at Stibnite) | | | | 13311250 (EFSFSR above Sugar) | | | | 13311450 (Sugar Creek) | | | | 13310850 (Meadow Creek) | | | | Meadow Creek MC-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | | Simulated Streamflow | | | |
| Mine Year | Month | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference | No Action | Proposed Action | % Difference | Long-term % Difference |
| -2 | January | 5.0 | 4.0 | -20% | -20% | 10.4 | 9.4 | -10% | -10% | 15.8 | 14.8 | -6% | -6% | 11.6 | 11.6 | 0% | 0% | 3.2 | 3.2 | 2% | 2% | 5.0 | 5.1 | 1% | 1% |
| -2 | February | 4.1 | 3.3 | -20% | -20% | 8.6 | 7.8 | -9% | -9% | 13.3 | 12.5 | -6% | -6% | 9.9 | 9.9 | 0% | 0% | 2.8 | 2.9 | 2% | 2% | 4.5 | 4.5 | 0% | 0% |
| -2 | March | 13.1 | 12.4 | -6% | -6% | 28.6 | 27.8 | -3% | -3% | 36.3 | 35.5 | -2% | -2% | 27.8 | 27.8 | 0% | 0% | 6.9 | 7.0 | 3% | 3% | 14.1 | 14.1 | 0% | 0% |
| -2 | April | 29.1 | 27.9 | -4% | -4% | 62.7 | 61.5 | -2% | -2% | 76.5 | 75.3 | -2% | -2% | 51.4 | 51.4 | 0% | 0% | 19.6 | 19.8 | 1% | 1% | 32.5 | 32.5 | 0% | 0% |
| -2 | May | 55.3 | 54.6 | -1% | -1% | 119.9 | 119.2 | -1% | -1% | 148.6 | 147.9 | 0% | 0% | 105.6 | 105.6 | 0% | 0% | 37.1 | 37.5 | 1% | 1% | 60.7 | 60.7 | 0% | 0% |
| -2 | June | 13.3 | 11.3 | -14% | -4% | 27.4 | 25.5 | -7% | -2% | 36.5 | 34.6 | -5% | -1% | 28.4 | 28.4 | 0% | 0% | 7.2 | 7.4 | 2% | 0% | 13.6 | 13.6 | 0% | 0% |
| -2 | July | 6.7 | 5.0 | -26% | -12% | 14.2 | 12.4 | -12% | -4% | 20.7 | 19.0 | -8% | -4% | 15.7 | 15.7 | 0% | 0% | 4.1 | 4.2 | 4% | 1% | 6.9 | 6.9 | 0% | 0% |
| -2 | August | 5.8 | 4.4 | -24% | -24% | 12.0 | 10.6 | -12% | -12% | 17.8 | 16.4 | -8% | -8% | 13.4 | 13.4 | 0% | 0% | 3.6 | 3.7 | 2% | 2% | 5.8 | 5.9 | 0% | 0% |
| -2 | September | 7.0 | 5.8 | -17% | -17% | 14.5 | 13.3 | -8% | -8% | 20.6 | 19.5 | -6% | -6% | 16.3 | 16.3 | 0% | 0% | 3.7 | 3.9 | 5% | 5% | 7.2 | 7.2 | 0% | 0% |
| -2 | October | 6.9 | 5.7 | -18% | -18% | 14.3 | 13.1 | -9% | -9% | 20.4 | 19.2 | -6% | -6% | 15.9 | 15.9 | 0% | 0% | 3.7 | 3.8 | 3% | 3% | 6.9 | 6.9 | 0% | 0% |
| -2 | November | 5.2 | 4.0 | -22% | -22% | 10.8 | 9.7 | -11% | -11% | 15.9 | 14.8 | -7% | -7% | 12.1 | 12.1 | 0% | 0% | 3.3 | 3.4 | 4% | 4% | 5.5 | 5.5 | 0% | 0% |
| -2 | December | 4.6 | 3.7 | -20% | -20% | 9.8 | 8.9 | -9% | -9% | 14.6 | 13.7 | -6% | -6% | 11.0 | 11.0 | 0% | 0% | 3.0 | 3.0 | 1% | 1% | 4.9 | 4.9 | 0% | 0% |
| -1 | January | 4.1 | 3.3 | -19% | -19% | 8.7 | 7.0 | -20% | -20% | 13.2 | 11.4 | -13% | -13% | 9.9 | 9.9 | 0% | 0% | 2.7 | 2.7 | 1% | 1% | 4.4 | 3.4 | -22% | -22% |
| -1 | February | 3.3 | 2.7 | -17% | -17% | 7.2 | 6.0 | -17% | -17% | 10.9 | 9.7 | -11% | -11% | 8.2 | 8.2 | 0% | 0% | 2.4 | 2.5 | 2% | 2% | 4.1 | 3.3 | -18% | -18% |
| -1 | March | 3.7 | 3.1 | -16% | -16% | 8.0 | 6.8 | -15% | -15% | 12.1 | 10.9 | -10% | -10% | 9.1 | 9.1 | 0% | 0% | 2.4 | 2.4 | 1% | 1% | 4.0 | 3.4 | -15% | -15% |
| -1 | April | 11.0 | 10.2 | -7% | -7% | 24.1 | 22.9 | -5% | -5% | 30.6 | 29.4 | -4% | -4% | 23.1 | 23.1 | 0% | 0% | 5.5 | 5.5 | 1% | 1% | 12.2 | 11.7 | -4% | -4% |
| -1 | May | 32.9 | 31.6 | -4% | -3% | 71.4 | 69.5 | -3% | -2% | 84.4 | 82.5 | -2% | -2% | 57.6 | 57.6 | 0% | 0% | 21.5 | 21.7 | 1% | 1% | 36.0 | 35.3 | -2% | -1% |
| -1 | June | 14.9 | 13.1 | -13% | -4% | 31.4 | 29.1 | -7% | -2% | 39.1 | 36.9 | -6% | -2% | 28.6 | 28.6 | 0% | 0% | 8.6 | 8.8 | 2% | 0% | 15.8 | 15.4 | -3% | -1% |
| -1 | July | 6.3 | 4.7 | -25% | -11% | 13.4 | 11.6 | -13% | -5% | 19.0 | 17.3 | -9% | -4% | 13.8 | 13.8 | 0% | 0% | 3.8 | 4.0 | 5% | 1% | 6.6 | 6.4 | -3% | -1% |
| -1 | August | 5.4 | 4.2 | -23% | -23% | 11.4 | 10.0 | -12% | -12% | 16.6 | 15.2 | -8% | -8% | 12.1 | 12.1 | 0% | 0% | 3.5 | 3.6 | 3% | 3% | 5.6 | 5.4 | -3% | -3% |
| -1 | September | 4.6 | 3.6 | -21% | -21% | 9.7 | 8.5 | -12% | -12% | 14.4 | 13.3 | -8% | -8% | 10.8 | 10.8 | 0% | 0% | 3.0 | 3.2 | 4% | 4% | 5.0 | 4.8 | -4% | -4% |
| -1 | October | 5.2 | 4.3 | -17% | -17% | 10.9 | 9.9 | -9% | -9% | 16.0 | 15.0 | -6% | -6% | 12.5 | 12.5 | 0% | 0% | 3.1 | 3.1 | 2% | 2% | 5.3 | 5.2 | -2% | -2% |
| -1 | November | 4.2 | 3.4 | -20% | -20% | 8.9 | 8.0 | -11% | -11% | 13.2 | 12.3 | -7% | -7% | 10.0 | 10.0 | 0% | 0% | 2.7 | 2.7 | 2% | 2% | 4.6 | 4.4 | -4% | -4% |
| -1 | December | 3.7 | 3.1 | -17% | -17% | 8.1 | 7.4 | -9% | -9% | 12.2 | 11.5 | -6% | -6% | 9.1 | 9.1 | 0% | 0% | 2.5 | 2.5 | 2% | 2% | 4.2 | 4.0 | -3% | -3% |
| 1 | January | 3.4 | 2.9 | -15% | -15% | 7.5 | 7.6 | 2% | 2% | 11.2 | 9.3 | -17% | -17% | 8.3 | 8.3 | 0% | 0% | 2.3 | 2.4 | 2% | 2% | 3.9 | 3.8 | 0% | 0% |
| 1 | February | 2.8 | 2.4 | -14% | -14% | 6.3 | 6.7 | 6% | 6% | 9.4 | 7.8 | -17% | -17% | 6.8 | 6.8 | 0% | 0% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.6 | 1% | 1% |
| 1 | March | 2.9 | 2.5 | -14% | -14% | 6.5 | 7.0 | 8% | 8% | 9.7 | 8.0 | -18% | -18% | 6.9 | 6.9 | 0% | 0% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 1% | 1% |
| 1 | April | 52.6 | 52.7 | 0% | 0% | 116.8 | 117.6 | 1% | 1% | 138.0 | 137.7 | 0% | 0% | 95.1 | 95.1 | 0% | 0% | 36.8 | 37.0 | 1% | 1% | 61.7 | 61.7 | 0% | 0% |
| 1 | May | 85.6 | 85.8 | 0% | 0% | 184.1 | 185.0 | 0% | 0% | 227.2 | 230.3 | 1% | 1% | 167.8 | 167.8 | 0% | 0% | 56.3 | 56.7 | 1% | 1% | 92.7 | 92.6 | 0% | 0% |
| 1 | June | 50.6 | 48.3 | -4% | -4% | 106.8 | 105.3 | -1% | -1% | 135.2 | 132.7 | -2% | -2% | 100.0 | 100.0 | 0% | 0% | 32.9 | 33.2 | 1% | 1% | 54.7 | 54.6 | 0% | 0% |
| 1 | July | 7.1 | 4.8 | -32% | -15% | 14.2 | 12.9 | -9% | -3% | 21.5 | 16.4 | -24% | -12% | 15.4 | 15.4 | 0% | 0% | 3.7 | 3.8 | 4% | 1% | 6.6 | 6.7 | 2% | 0% |
| 1 | August | 5.9 | 4.2 | -29% | -29% | 11.9 | 11.2 | -5% | -5% | 18.0 | 14.1 | -22% | -22% | 13.1 | 13.1 | 0% | 0% | 3.4 | 3.4 | 2% | 2% | 5.6 | 5.7 | 3% | 3% |
| 1 | September | 5.0 | 3.6 | -27% | -27% | 10.0 | 9.6 | -4% | -4% | 15.3 | 12.0 | -21% | -21% | 11.4 | 11.4 | 0% | 0% | 2.9 | 3.0 | 3% | 3% | 4.9 | 4.9 | 2% | 2% |
| 1 | October | 4.8 | 3.6 | -25% | -25% | 9.6 | 9.4 | -3% | -3% | 14.9 | 11.8 | -21% | -21% | 11.3 | 11.3 | 0% | 0% | 2.7 | 2.8 | 4% | 4% | 4.6 | 4.6 | 1% | 1% |
| 1 | November | 4.1 | 3.1 | -25% | -25% | 8.4 | 8.3 | -1% | -1% | 13.1 | 10.3 | -21% | -21% | 9.8 | 9.8 | 0% | 0% | 2.4 | 2.5 | 3% | 3% | 4.1 | 4.2 | 1% | 1% |
| 1 | December | 3.8 | 2.9 | -23% | -23% | 7.8 | 8.0 | 2% | 2% | 12.4 | 9.8 | -21% | -21% | 9.0 | 9.0 | 0% | 0% | 2.3 | 2.3 | 2% | 2% | 3.8 | 3.9 | 3% | 3% |
| 2 | January | 3.4 | 2.7 | -20% | -20% | 7.1 | 7.5 | 5% | 5% | 11.3 | 8.4 | -26% | -26% | 8.1 | 8.1 | 0% | 0% | 2.1 | 2.1 | 1% | 1% | 3.6 | 3.6 | 3% | 3% |
| 2 | February | 2.7 | 2.2 | -17% | -17% | 5.9 | 6.4 | 8% | 8% | 9.4 | 6.9 | -26% | -26% | 6.7 | 6.7 | 0% | 0% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.4 | 3% | 3% |
| 2 | March | 10.4 | 9.7 | -7% | -7% | 22.6 | 23.0 | 1% | 1% | 29.4 | 26.6 | -9% | -9% | 22.7 | 22.7 | 0% | 0% | 4.8 | 4.7 | -2% | -2% | 10.9 | 11.0 | 1% | 1% |
| 2 | April | 24.5 | 23.2 | -5% | -5% | 53.1 | 52.6 | -1% | -1% | 62.3 | 59.9 | -4% | -4% | 43.5 | 43.5 | 0% | 0% | 15.9 | 16.0 | 1% | 1% | 27.5 | 27.4 | 0% | 0% |
| 2 | May | 33.5 | 31.7 | -5% | -4% | 72.0 | 71.1 | -1% | -1% | 87.9 | 84.0 | -4% | -3% | 61.9 | 61.9 | 0% | 0% | 21.7 | 21.9 | 1% | 1% | 36.1 | 36.0 | 0% | 0% |
| 2 | June | 7.1 | 5.3 | -25% | -4% | 14.9 | 14.1 | -5% | -1% | 21.2 | 16.1 | -24% | -4% | 15.7 | 15.7 | 0% | 0% | 4.1 | 4.1 | 1% | 0% | 7.5 | 7.6 | 1% | 0% |
| 2 | July | 5.9 | 4.4 | -25% | -10% | 12.3 | 11.9 | -3% | -1% | 18.0 | 13.4 | -26% | -11% | 13.2 | 13.2 | 0% | 0% | 3.6 | 3.7 | 2% | 0% | 6.0 | 6.1 | 2% | 1% |
| 2 | August | 5.0 | 3.9 | -23% | -23% | 10.4 | 10.3 | -1% | -1% | 15.7 | 11.5 | -27% | -27% | 11.6 | 11.6 | 0% | 0% | 3.1 | 3.2 | 2% | 2% | 5.1 | 5.2 | 2% | 2% |
| 2 | September | 6.1 | 5.1 | -17% | -17% | 12.5 | 12.6 | 0% | 0% | 18.1 | 14.2 | -21% | -21% | 14.1 | 14.1 | 0% | 0% | 3.3 | 3.4 | 1% | 1% | 6.2 | 6.3 | 2% | 2% |
| 2 | October | 13.2 | 12.0 | -9% | -9% | 28.4 | 28.1 | -1% | -1% | 35.9 | 31.8 | -11% | -11% | 27.6 | 27.6 | 0% | 0% | 6.7 | 6.9 | 3% | 3% | 13.9 | 13.9 | 0% | 0% |
| 2 | November | 5.5 | 4.3 | -22% | -22% | 11.6 | 11.5 | -1% | -1% | 16.7 | 12.8 | -23% | -23% | 12.2 | 12.2 | 0% | 0% | 3.5 | 3.6 | 4% | 4% | 5.9 | 6.0 | 2% | 2% |
| 2 | December | 4.9 | 4.0 | -19% | -19% | 10.4 | 10.5 | 1% | 1% | 15.1 | 11.5 | -24% | -24% | 10.9 | 10.9 | 0% | 0% | 3.3 | 3.3 | 3% | 3% | 5.2 | 5.3 | 1% | 1% |
| 3 | January | 4.3 | 3.5 | -17% | -17% | 9.1 | 9.4 | 2% | 2% | 13.5 | 10.0 | -26% | -26% | 10.0 | 10.0 | 0% | 0% | 2.9 | 3.0 | 1% | 1% | 4.6 | 4.7 | 2% | 2% |
| 3 | February | 3.5 | 3.0 | -14% | -14% | 7.7 | 8.0 | 4% | 4% | 11.5 | 8.3 | -28% | -28% | 8.5 | 8.5 | 0% | 0% | 2.6 | 2.7 | 3% | 3% | 4.2 | 4.3 | 1% | 1% |
| 3 | March | 3.4 | 2.9 | -14% | -14% | 7.5 | 7.9 | 6% | 6% | 11.2 | 8.0 | -29% | -29% | 8.2 | 8.2 | 0% | 0% | 2.3 | 2.4 | 4% | 4% | 3.9 | 4.0 | 2% | 2% |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | April | 4.2 | 3.7 | -12% | -7% | 8.9 | 9.2 | 4% | 2% | 12.9 | 9.6 | -25% | -13% | 9.9 | 9.9 | 0% | 0% | 2.6 | 2.6 | 2% | 1% | 4.5 | 4.5 | 1% | 0% |
| 3 | May | 67.6 | 68.1 | 1% | 1% | 149.4 | 150.7 | 1% | 1% | 177.8 | 178.7 | 1% | 1% | 124.6 | 124.6 | 0% | 0% | 46.2 | 46.5 | 1% | 1% | 76.5 | 76.6 | 0% | 0% |
| 3 | June | 53.2 | 51.9 | -2% | -2% | 113.2 | 112.6 | -1% | -1% | 141.0 | 138.3 | -2% | -2% | 103.3 | 103.3 | 0% | 0% | 35.1 | 35.5 | 1% | 1% | 58.3 | 58.3 | 0% | 0% |
| 3 | July | 6.8 | 4.7 | -31% | -14% | 13.7 | 12.5 | -9% | -3% | 20.5 | 14.0 | -32% | -15% | 14.6 | 14.6 | 0% | 0% | 3.6 | 3.7 | 1% | 0% | 6.4 | 6.5 | 2% | 0% |
| 3 | August | 5.7 | 4.1 | -28% | -28% | 11.6 | 10.9 | -6% | -6% | 17.5 | 12.0 | -31% | -31% | 12.7 | 12.7 | 0% | 0% | 3.4 | 3.4 | 0% | 0% | 5.4 | 5.6 | 2% | 2% |
| 3 | September | 4.9 | 3.6 | -27% | -27% | 9.8 | 9.4 | -4% | -4% | 15.1 | 10.3 | -32% | -32% | 11.2 | 11.2 | 0% | 0% | 2.9 | 3.0 | 1% | 1% | 4.8 | 4.8 | 1% | 1% |
| 3 | October | 4.5 | 3.3 | -25% | -25% | 9.0 | 8.8 | -3% | -3% | 14.1 | 9.5 | -32% | -32% | 10.5 | 10.5 | 0% | 0% | 2.6 | 2.7 | 3% | 3% | 4.3 | 4.3 | 1% | 1% |
| 3 | November | 4.3 | 3.3 | -24% | -24% | 8.7 | 8.5 | -2% | -2% | 13.5 | 9.2 | -32% | -32% | 10.1 | 10.1 | 0% | 0% | 2.5 | 2.6 | 4% | 4% | 4.2 | 4.3 | 1% | 1% |
| 3 | December | 3.9 | 3.0 | -23% | -23% | 8.0 | 8.0 | 0% | 0% | 12.6 | 8.5 | -32% | -32% | 9.2 | 9.2 | 0% | 0% | 2.3 | 2.4 | 3% | 3% | 3.9 | 4.0 | 2% | 2% |
| 4 | January | 3.4 | 2.8 | -19% | -19% | 7.2 | 7.6 | 5% | 5% | 11.4 | 7.8 | -31% | -31% | 8.2 | 8.2 | 0% | 0% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.7 | 2% | 2% |
| 4 | February | 2.8 | 2.3 | -17% | -17% | 6.0 | 6.4 | 8% | 8% | 9.4 | 6.5 | -31% | -31% | 6.7 | 6.7 | 0% | 0% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 3% | 3% |
| 4 | March | 2.8 | 2.3 | -16% | -16% | 6.1 | 6.8 | 10% | 10% | 9.6 | 6.6 | -31% | -31% | 6.8 | 6.8 | 0% | 0% | 1.8 | 1.9 | 1% | 1% | 3.2 | 3.3 | 3% | 3% |
| 4 | April | 15.8 | 15.0 | -5% | -5% | 35.0 | 35.2 | 0% | 0% | 42.6 | 39.6 | -7% | -7% | 31.2 | 31.2 | 0% | 0% | 9.0 | 8.9 | -1% | -1% | 17.9 | 18.0 | 1% | 1% |
| 4 | May | 57.7 | 56.9 | -1% | -1% | 125.7 | 125.8 | 0% | 0% | 150.2 | 149.2 | -1% | -1% | 105.6 | 105.6 | 0% | 0% | 38.7 | 39.1 | 1% | 1% | 63.8 | 63.8 | 0% | 0% |
| 4 | June | 38.5 | 36.6 | -5% | -4% | 81.8 | 80.7 | -1% | -1% | 102.4 | 97.9 | -4% | -3% | 75.5 | 75.5 | 0% | 0% | 25.0 | 25.3 | 1% | 1% | 42.0 | 41.9 | 0% | 0% |
| 4 | July | 6.6 | 4.6 | -31% | -14% | 13.5 | 12.6 | -7% | -2% | 20.2 | 14.0 | -31% | -15% | 14.5 | 14.5 | 0% | 0% | 3.6 | 3.7 | 3% | 1% | 6.4 | 6.6 | 2% | 1% |
| 4 | August | 5.6 | 4.0 | -28% | -28% | 11.3 | 10.9 | -4% | -4% | 17.1 | 11.8 | -31% | -31% | 12.5 | 12.5 | 0% | 0% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.5 | 3% | 3% |
| 4 | September | 4.7 | 3.5 | -26% | -26% | 9.6 | 9.3 | -2% | -2% | 14.7 | 10.1 | -32% | -32% | 10.9 | 10.9 | 0% | 0% | 2.9 | 2.9 | 2% | 2% | 4.7 | 4.8 | 2% | 2% |
| 4 | October | 12.3 | 10.8 | -13% | -13% | 26.4 | 25.8 | -2% | -2% | 34.1 | 29.2 | -14% | -14% | 27.0 | 27.0 | 0% | 0% | 6.0 | 6.1 | 2% | 2% | 12.8 | 12.8 | 0% | 0% |
| 4 | November | 5.3 | 3.9 | -25% | -25% | 10.8 | 10.5 | -3% | -3% | 16.1 | 11.4 | -29% | -29% | 11.6 | 11.6 | 0% | 0% | 3.2 | 3.2 | 2% | 2% | 5.3 | 5.4 | 2% | 2% |
| 4 | December | 4.7 | 3.6 | -22% | -22% | 9.8 | 9.7 | -1% | -1% | 14.7 | 10.3 | -30% | -30% | 10.6 | 10.6 | 0% | 0% | 3.0 | 3.1 | 3% | 3% | 4.8 | 4.8 | 1% | 1% |
| 5 | January | 4.1 | 3.3 | -20% | -20% | 8.6 | 9.3 | 8% | 8% | 13.2 | 9.5 | -28% | -28% | 9.6 | 9.6 | 0% | 0% | 2.6 | 2.7 | 6% | 6% | 4.3 | 4.4 | 4% | 4% |
| 5 | February | 3.3 | 2.7 | -17% | -17% | 7.0 | 7.9 | 13% | 13% | 10.8 | 7.8 | -28% | -28% | 7.9 | 7.9 | 0% | 0% | 2.4 | 2.5 | 1% | 1% | 3.9 | 4.0 | 4% | 4% |
| 5 | March | 3.4 | 2.9 | -15% | -15% | 7.4 | 8.5 | 15% | 15% | 11.5 | 8.2 | -28% | -28% | 8.4 | 8.4 | 0% | 0% | 2.3 | 2.3 | 4% | 4% | 3.8 | 3.9 | 5% | 5% |
| 5 | April | 13.8 | 12.8 | -7% | -7% | 30.4 | 31.0 | 2% | 2% | 37.6 | 34.2 | -9% | -9% | 27.8 | 27.8 | 0% | 0% | 7.8 | 7.9 | 2% | 2% | 15.5 | 15.7 | 1% | 1% |
| 5 | May | 38.4 | 36.8 | -4% | -4% | 83.1 | 83.0 | 0% | 0% | 99.3 | 96.2 | -3% | -3% | 67.6 | 67.6 | 0% | 0% | 25.4 | 25.7 | 1% | 1% | 41.9 | 41.9 | 0% | 0% |
| 5 | June | 68.5 | 68.0 | -1% | -1% | 148.3 | 149.2 | 1% | 1% | 183.4 | 181.7 | -1% | -1% | 134.6 | 134.6 | 0% | 0% | 47.3 | 47.8 | 1% | 1% | 77.6 | 77.6 | 0% | 0% |
| 5 | July | 6.9 | 4.8 | -30% | -14% | 14.0 | 13.6 | -3% | -1% | 20.8 | 14.7 | -30% | -15% | 14.9 | 14.9 | 0% | 0% | 3.7 | 3.8 | 4% | 1% | 6.6 | 6.8 | 3% | 1% |
| 5 | August | 5.7 | 4.1 | -28% | -28% | 11.7 | 11.8 | 1% | 1% | 17.6 | 12.5 | -29% | -29% | 12.8 | 12.8 | 0% | 0% | 3.4 | 3.4 | 2% | 2% | 5.6 | 5.8 | 4% | 4% |
| 5 | September | 4.9 | 3.6 | -26% | -26% | 9.9 | 10.2 | 3% | 3% | 15.1 | 10.6 | -30% | -30% | 11.2 | 11.2 | 0% | 0% | 2.9 | 3.0 | 2% | 2% | 4.8 | 4.9 | 3% | 3% |
| 5 | October | 7.2 | 5.9 | -18% | -18% | 14.9 | 15.2 | 2% | 2% | 21.2 | 16.7 | -21% | -21% | 16.9 | 16.9 | 0% | 0% | 3.3 | 3.4 | 2% | 2% | 6.9 | 7.1 | 2% | 2% |
| 5 | November | 4.8 | 3.6 | -24% | -24% | 9.8 | 10.2 | 4% | 4% | 14.8 | 10.5 | -29% | -29% | 11.0 | 11.0 | 0% | 0% | 2.9 | 2.9 | 0% | 0% | 4.8 | 4.9 | 2% | 2% |
| 5 | December | 4.3 | 3.3 | -22% | -22% | 8.9 | 9.5 | 8% | 8% | 13.6 | 9.6 | -29% | -29% | 9.9 | 9.9 | 0% | 0% | 2.6 | 2.7 | 4% | 4% | 4.3 | 4.4 | 3% | 3% |
| 6 | January | 3.8 | 3.0 | -19% | -19% | 7.9 | 8.9 | 13% | 13% | 12.3 | 8.7 | -29% | -29% | 8.9 | 8.9 | 0% | 0% | 2.3 | 2.4 | 4% | 4% | 3.9 | 4.1 | 5% | 5% |
| 6 | February | 3.0 | 2.5 | -16% | -16% | 6.5 | 7.6 | 17% | 17% | 10.1 | 7.2 | -29% | -29% | 7.3 | 7.3 | 0% | 0% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.8 | 5% | 5% |
| 6 | March | 3.0 | 2.6 | -15% | -15% | 6.6 | 8.0 | 20% | 20% | 10.3 | 7.3 | -29% | -29% | 7.4 | 7.4 | 0% | 0% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.6 | 6% | 6% |
| 6 | April | 6.9 | 6.2 | -10% | -10% | 15.0 | 16.2 | 8% | 6% | 20.5 | 17.5 | -14% | -12% | 16.8 | 16.8 | 0% | 0% | 3.0 | 3.1 | 4% | 2% | 7.4 | 7.7 | 4% | 3% |
| 6 | May | 57.8 | 57.3 | -1% | -1% | 127.3 | 128.3 | 1% | 1% | 150.6 | 149.8 | -1% | -1% | 103.6 | 103.6 | 0% | 0% | 39.6 | 39.7 | 0% | 0% | 65.1 | 65.1 | 0% | 0% |
| 6 | June | 64.8 | 63.8 | -1% | -1% | 139.1 | 139.6 | 0% | 0% | 172.9 | 171.1 | -1% | -1% | 127.1 | 127.1 | 0% | 0% | 43.8 | 44.3 | 1% | 1% | 72.2 | 72.2 | 0% | 0% |
| 6 | July | 6.8 | 4.7 | -31% | -14% | 13.6 | 13.3 | -2% | -1% | 20.6 | 14.2 | -31% | -15% | 14.6 | 14.6 | 0% | 0% | 3.6 | 3.7 | 3% | 1% | 6.3 | 6.6 | 4% | 1% |
| 6 | August | 5.7 | 4.1 | -28% | -28% | 11.4 | 11.7 | 2% | 2% | 17.4 | 12.1 | -30% | -30% | 12.7 | 12.7 | 0% | 0% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.6 | 4% | 4% |
| 6 | September | 4.8 | 3.5 | -26% | -26% | 9.7 | 10.1 | 4% | 4% | 14.9 | 10.3 | -31% | -31% | 11.1 | 11.1 | 0% | 0% | 2.9 | 2.9 | 3% | 3% | 4.7 | 4.8 | 3% | 3% |
| 6 | October | 7.8 | 6.5 | -17% | -17% | 16.1 | 16.5 | 3% | 3% | 22.6 | 18.1 | -20% | -20% | 18.4 | 18.4 | 0% | 0% | 3.4 | 3.5 | 2% | 2% | 7.5 | 7.7 | 3% | 3% |
| 6 | November | 4.9 | 3.7 | -25% | -25% | 9.9 | 10.4 | 5% | 5% | 14.9 | 10.6 | -29% | -29% | 11.0 | 11.0 | 0% | 0% | 2.9 | 2.9 | 2% | 2% | 4.8 | 5.0 | 3% | 3% |
| 6 | December | 4.3 | 3.4 | -22% | -22% | 9.0 | 9.7 | 9% | 9% | 13.7 | 9.7 | -29% | -29% | 10.0 | 10.0 | 0% | 0% | 2.7 | 2.7 | 2% | 2% | 4.4 | 4.5 | 3% | 3% |
| 7 | January | 3.8 | 3.2 | -17% | -17% | 8.0 | 9.9 | 25% | 25% | 12.4 | 9.7 | -22% | -22% | 9.0 | 9.0 | 0% | 0% | 2.4 | 2.5 | 1% | 1% | 4.0 | 3.0 | -24% | -24% |
| 7 | February | 3.1 | 2.7 | -13% | -13% | 6.7 | 8.7 | 29% | 29% | 10.5 | 8.2 | -22% | -22% | 7.6 | 7.6 | 0% | 0% | 2.2 | 2.3 | 2% | 2% | 3.7 | 2.3 | -37% | -37% |
| 7 | March | 3.2 | 2.8 | -11% | -11% | 6.9 | 8.9 | 30% | 30% | 10.7 | 8.3 | -22% | -22% | 7.7 | 7.7 | 0% | 0% | 2.1 | 2.1 | 1% | 1% | 3.5 | 2.0 | -42% | -42% |
| 7 | April | 42.4 | 41.9 | -1% | -1% | 94.1 | 94.9 | 1% | 1% | 111.3 | 109.9 | -1% | -1% | 77.0 | 77.0 | 0% | 0% | 29.4 | 29.6 | 1% | 1% | 49.6 | 47.1 | -5% | -5% |
| 7 | May | 60.6 | 60.0 | -1% | -1% | 130.8 | 131.7 | 1% | 1% | 161.1 | 159.1 | -1% | -1% | 117.8 | 117.8 | 0% | 0% | 39.9 | 40.2 | 1% | 1% | 66.0 | 63.6 | -4% | -4% |
| 7 | June | 30.2 | 27.7 | -9% | -5% | 63.2 | 62.1 | -2% | -1% | 80.9 | 74.9 | -7% | -4% | 59.4 | 59.4 | 0% | 0% | 18.8 | 19.0 | 1% | 0% | 32.0 | 29.6 | -8% | -3% |
| 7 | July | 6.7 | 4.8 | -28% | -13% | 13.7 | 13.5 | -1% | 0% | 20.7 | 14.5 | -30% | -15% | 14.7 | 14.7 | 0% | 0% | 3.7 | 3.8 | 4% | 1% | 6.5 | 4.3 | -33% | -10% |
| 7 | August | 5.6 | 4.2 | -25% | -25% | 11.5 | 12.0 | 5% | 5% | 17.4 | 12.5 | -28% | -28% | 12.6 | 12.6 | 0% | 0% | 3.3 | 3.4 | 2% | 2% | 5.5 | 3.5 | -36% | -36% |
| 7 | September | 4.8 | 3.7 | -23% | -23% | 9.7 | 10.7 | 10% | 10% | 14.9 | 10.9 | -27% | -27% | 11.0 | 11.0 | 0% | 0% | 2.9 | 3.0 | 3% | 3% | 4.7 | 3.0 | -37% | -37% |
| 7 | October | 11.1 | 9.7 | -13% | -13% | 23.6 | 23.6 | 0% | 0% | 31.2 | 26.3 | -16% | -16% | 25.1 | 25.1 | 0% | 0% | 5.2 | 5.2 | 1% | 1% | 11.4 | 8.8 | -22% | -22% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | November | 5.4 | 4.2 | -23% | -23% | 11.1 | 11.7 | 6% | 6% | 16.4 | 12.1 | -26% | -26% | 11.9 | 11.9 | 0% | 0% | 3.1 | 3.3 | 5% | 5% | 5.4 | 3.5 | -36% | -36% |
| 7 | December | 4.8 | 3.9 | -19% | -19% | 10.0 | 11.2 | 12% | 12% | 15.0 | 11.3 | -25% | -25% | 10.8 | 10.8 | 0% | 0% | 3.0 | 3.1 | 3% | 3% | 4.9 | 3.1 | -37% | -37% |
| 8 | January | 4.2 | 3.6 | -14% | -14% | 8.8 | 11.2 | 27% | 27% | 13.4 | 11.0 | -18% | -18% | 9.8 | 9.8 | 0% | 0% | 2.8 | 2.8 | -2% | -2% | 4.4 | 2.2 | -48% | -48% |
| 8 | February | 3.3 | 3.0 | -11% | -11% | 7.1 | 9.2 | 29% | 29% | 11.0 | 8.8 | -20% | -20% | 8.0 | 8.0 | 0% | 0% | 2.5 | 2.5 | 0% | 0% | 4.0 | 1.5 | -62% | -62% |
| 8 | March | 3.6 | 3.2 | -11% | -11% | 7.8 | 9.9 | 27% | 27% | 11.9 | 9.5 | -21% | -21% | 8.7 | 8.7 | 0% | 0% | 2.3 | 2.4 | 3% | 3% | 3.9 | 1.3 | -66% | -66% |
| 8 | April | 21.2 | 20.4 | -4% | -4% | 46.7 | 46.7 | 0% | 0% | 55.4 | 52.1 | -6% | -6% | 39.8 | 39.8 | 0% | 0% | 13.4 | 13.5 | 1% | 1% | 24.2 | 20.0 | -17% | -17% |
| 8 | May | 44.0 | 42.6 | -3% | -3% | 95.2 | 95.1 | 0% | 0% | 115.5 | 111.8 | -3% | -3% | 80.3 | 80.3 | 0% | 0% | 29.2 | 29.5 | 1% | 1% | 48.0 | 44.2 | -8% | -7% |
| 8 | June | 27.3 | 25.4 | -7% | -4% | 57.9 | 57.3 | -1% | -1% | 73.0 | 67.4 | -8% | -4% | 53.6 | 53.6 | 0% | 0% | 17.5 | 17.6 | 1% | 0% | 29.6 | 25.9 | -13% | -5% |
| 8 | July | 6.6 | 4.9 | -25% | -11% | 13.8 | 13.9 | 1% | 0% | 20.2 | 14.8 | -27% | -13% | 14.5 | 14.5 | 0% | 0% | 3.8 | 3.9 | 3% | 1% | 6.7 | 3.4 | -49% | -15% |
| 8 | August | 5.6 | 4.4 | -22% | -22% | 11.6 | 12.5 | 8% | 8% | 17.3 | 13.0 | -25% | -25% | 12.6 | 12.6 | 0% | 0% | 3.4 | 3.5 | 3% | 3% | 5.6 | 2.7 | -53% | -53% |
| 8 | September | 27.4 | 25.7 | -6% | -6% | 59.1 | 58.5 | -1% | -1% | 73.1 | 68.0 | -7% | -7% | 53.8 | 53.8 | 0% | 0% | 17.6 | 17.7 | 1% | 1% | 30.5 | 26.5 | -13% | -13% |
| 8 | October | 6.3 | 4.8 | -23% | -23% | 13.1 | 13.5 | 3% | 3% | 19.3 | 14.3 | -26% | -26% | 13.9 | 13.9 | 0% | 0% | 3.6 | 3.7 | 4% | 4% | 6.3 | 3.1 | -51% | -51% |
| 8 | November | 5.2 | 4.2 | -19% | -19% | 10.7 | 11.9 | 11% | 11% | 16.2 | 12.2 | -24% | -24% | 11.6 | 11.6 | 0% | 0% | 3.4 | 3.4 | 1% | 1% | 5.4 | 2.5 | -54% | -54% |
| 8 | December | 4.7 | 3.9 | -17% | -17% | 9.7 | 11.2 | 15% | 15% | 14.9 | 11.4 | -24% | -24% | 11.0 | 11.0 | 0% | 0% | 2.9 | 3.0 | 2% | 2% | 4.7 | 1.9 | -60% | -60% |
| 9 | January | 4.1 | 3.5 | -16% | -16% | 8.6 | 8.9 | 3% | 3% | 13.5 | 9.1 | -32% | -32% | 10.0 | 10.0 | 0% | 0% | 2.6 | 2.7 | 3% | 3% | 4.3 | 1.3 | -70% | -70% |
| 9 | February | 3.3 | 2.9 | -13% | -13% | 7.0 | 7.3 | 3% | 3% | 11.1 | 7.7 | -30% | -30% | 8.2 | 8.2 | 0% | 0% | 2.3 | 2.4 | 3% | 3% | 3.9 | 0.9 | -77% | -77% |
| 9 | March | 3.6 | 3.2 | -13% | -13% | 7.8 | 8.0 | 3% | 3% | 12.1 | 8.5 | -30% | -30% | 8.9 | 8.9 | 0% | 0% | 2.3 | 2.4 | 1% | 1% | 3.9 | 0.8 | -78% | -78% |
| 9 | April | 20.1 | 19.1 | -5% | -5% | 44.2 | 42.3 | -4% | -4% | 52.9 | 48.2 | -9% | -9% | 38.6 | 38.6 | 0% | 0% | 12.2 | 12.4 | 1% | 1% | 22.9 | 18.2 | -21% | -21% |
| 9 | May | 46.3 | 45.0 | -3% | -3% | 100.4 | 98.6 | -2% | -2% | 122.0 | 117.7 | -4% | -4% | 85.6 | 85.6 | 0% | 0% | 30.9 | 31.1 | 1% | 1% | 50.7 | 46.6 | -8% | -8% |
| 9 | June | 19.5 | 17.4 | -11% | -4% | 40.8 | 38.4 | -6% | -2% | 52.1 | 45.4 | -13% | -5% | 38.5 | 38.5 | 0% | 0% | 11.7 | 11.8 | 1% | 0% | 20.6 | 16.5 | -20% | -6% |
| 9 | July | 6.5 | 4.9 | -26% | -11% | 13.6 | 12.1 | -11% | -4% | 19.9 | 13.8 | -31% | -14% | 14.4 | 14.4 | 0% | 0% | 3.7 | 3.9 | 5% | 1% | 6.6 | 3.0 | -54% | -16% |
| 9 | August | 5.5 | 4.3 | -22% | -22% | 11.4 | 10.7 | -6% | -6% | 17.0 | 12.1 | -29% | -29% | 12.4 | 12.4 | 0% | 0% | 3.4 | 3.5 | 2% | 2% | 5.6 | 2.4 | -58% | -58% |
| 9 | September | 4.7 | 3.7 | -20% | -20% | 9.7 | 9.3 | -4% | -4% | 14.7 | 10.5 | -29% | -29% | 11.0 | 11.0 | 0% | 0% | 3.0 | 3.1 | 4% | 4% | 4.9 | 1.8 | -63% | -63% |
| 9 | October | 7.2 | 6.1 | -15% | -15% | 14.9 | 13.5 | -10% | -10% | 21.1 | 15.7 | -26% | -26% | 16.7 | 16.7 | 0% | 0% | 3.5 | 3.5 | 1% | 1% | 7.0 | 3.0 | -57% | -57% |
| 9 | November | 4.7 | 3.8 | -19% | -19% | 9.7 | 9.4 | -4% | -4% | 14.5 | 10.5 | -28% | -28% | 10.8 | 10.8 | 0% | 0% | 2.9 | 2.9 | 1% | 1% | 4.9 | 1.8 | -64% | -64% |
| 9 | December | 4.1 | 3.5 | -15% | -15% | 8.8 | 8.8 | 0% | 0% | 13.3 | 9.7 | -27% | -27% | 9.8 | 9.8 | 0% | 0% | 2.6 | 2.7 | 3% | 3% | 4.4 | 1.4 | -69% | -69% |
| 10 | January | 3.6 | 3.2 | -13% | -13% | 7.8 | 7.4 | -5% | -5% | 12.0 | 8.3 | -31% | -31% | 8.8 | 8.8 | 0% | 0% | 2.5 | 2.5 | 0% | 0% | 4.0 | 0.9 | -78% | -78% |
| 10 | February | 3.9 | 3.3 | -15% | -15% | 8.3 | 7.6 | -9% | -9% | 12.3 | 8.8 | -28% | -28% | 9.5 | 9.5 | 0% | 0% | 2.6 | 2.6 | 3% | 3% | 4.5 | 1.3 | -71% | -71% |
| 10 | March | 11.3 | 10.2 | -10% | -10% | 24.7 | 21.9 | -11% | -11% | 31.4 | 25.8 | -18% | -18% | 23.4 | 23.4 | 0% | 0% | 5.6 | 5.6 | 1% | 1% | 12.2 | 7.5 | -38% | -38% |
| 10 | April | 19.0 | 17.3 | -9% | -9% | 40.9 | 38.0 | -7% | -7% | 48.4 | 43.2 | -11% | -11% | 33.8 | 33.8 | 0% | 0% | 12.1 | 12.2 | 1% | 1% | 21.0 | 16.7 | -20% | -20% |
| 10 | May | 35.4 | 33.2 | -6% | -5% | 76.3 | 73.0 | -4% | -4% | 92.8 | 87.3 | -6% | -5% | 64.1 | 64.1 | 0% | 0% | 23.4 | 23.6 | 1% | 1% | 38.4 | 34.2 | -11% | -8% |
| 10 | June | 6.4 | 4.6 | -28% | -4% | 13.4 | 11.0 | -18% | -2% | 19.1 | 13.3 | -30% | -4% | 13.7 | 13.7 | 0% | 0% | 4.0 | 4.0 | 1% | 0% | 6.8 | 3.1 | -54% | -5% |
| 10 | July | 5.6 | 4.3 | -22% | -8% | 11.6 | 10.1 | -13% | -4% | 17.0 | 12.1 | -29% | -12% | 12.3 | 12.3 | 0% | 0% | 3.5 | 3.6 | 4% | 1% | 5.7 | 2.4 | -58% | -15% |
| 10 | August | 4.8 | 3.9 | -20% | -20% | 10.1 | 9.0 | -11% | -11% | 15.1 | 10.7 | -29% | -29% | 11.3 | 11.3 | 0% | 0% | 3.0 | 3.1 | 4% | 4% | 4.9 | 1.8 | -64% | -64% |
| 10 | September | 5.1 | 4.1 | -20% | -20% | 10.7 | 9.3 | -12% | -12% | 15.8 | 11.2 | -29% | -29% | 12.3 | 12.3 | 0% | 0% | 3.2 | 3.1 | 0% | 0% | 5.3 | 2.0 | -63% | -63% |
| 10 | October | 4.6 | 3.7 | -19% | -19% | 9.6 | 8.4 | -12% | -12% | 14.3 | 10.0 | -30% | -30% | 10.8 | 10.8 | 0% | 0% | 2.7 | 2.8 | 3% | 3% | 4.7 | 1.4 | -70% | -70% |
| 10 | November | 3.8 | 3.2 | -15% | -15% | 8.1 | 7.4 | -9% | -9% | 12.3 | 8.7 | -29% | -29% | 9.1 | 9.1 | 0% | 0% | 2.5 | 2.6 | 4% | 4% | 4.2 | 1.0 | -76% | -76% |
| 10 | December | 3.5 | 3.0 | -12% | -12% | 7.6 | 7.1 | -7% | -7% | 11.5 | 8.3 | -28% | -28% | 8.5 | 8.5 | 0% | 0% | 2.3 | 2.4 | 1% | 1% | 3.9 | 0.8 | -80% | -80% |
| 11 | January | 3.2 | 2.8 | -11% | -11% | 7.0 | 6.8 | -3% | -3% | 10.6 | 7.9 | -25% | -25% | 7.7 | 7.7 | 0% | 0% | 2.2 | 2.2 | 1% | 1% | 3.6 | 0.6 | -83% | -83% |
| 11 | February | 2.7 | 2.5 | -10% | -10% | 6.1 | 6.1 | 0% | 0% | 9.2 | 7.1 | -23% | -23% | 6.5 | 6.5 | 0% | 0% | 2.0 | 2.0 | 0% | 0% | 3.4 | 0.5 | -85% | -85% |
| 11 | March | 3.9 | 3.4 | -14% | -14% | 8.4 | 7.5 | -11% | -11% | 12.1 | 9.0 | -26% | -26% | 9.2 | 9.2 | 0% | 0% | 2.2 | 2.3 | 1% | 1% | 4.1 | 0.8 | -82% | -82% |
| 11 | April | 58.8 | 58.7 | 0% | 0% | 130.2 | 128.2 | -2% | -2% | 153.9 | 152.3 | -1% | -1% | 107.0 | 107.0 | 0% | 0% | 41.2 | 41.3 | 0% | 0% | 68.8 | 63.7 | -7% | -7% |
| 11 | May | 48.3 | 46.7 | -3% | -3% | 102.9 | 100.1 | -3% | -3% | 127.1 | 123.3 | -3% | -3% | 93.6 | 93.6 | 0% | 0% | 30.6 | 30.9 | 1% | 1% | 51.3 | 47.0 | -8% | -8% |
| 11 | June | 16.6 | 14.0 | -15% | -5% | 34.0 | 30.4 | -11% | -3% | 44.2 | 37.4 | -15% | -5% | 33.0 | 33.0 | 0% | 0% | 9.2 | 9.3 | 1% | 0% | 16.7 | 12.6 | -25% | -6% |
| 11 | July | 6.6 | 4.8 | -28% | -12% | 13.6 | 11.2 | -18% | -6% | 20.1 | 14.0 | -31% | -14% | 14.3 | 14.3 | 0% | 0% | 3.7 | 3.9 | 5% | 1% | 6.5 | 2.9 | -56% | -17% |
| 11 | August | 5.6 | 4.3 | -24% | -24% | 11.5 | 10.0 | -14% | -14% | 17.3 | 12.3 | -29% | -29% | 12.4 | 12.4 | 0% | 0% | 3.4 | 3.5 | 2% | 2% | 5.5 | 2.2 | -60% | -60% |
| 11 | September | 4.8 | 3.7 | -23% | -23% | 9.8 | 8.6 | -12% | -12% | 15.0 | 10.7 | -29% | -29% | 10.9 | 10.9 | 0% | 0% | 3.0 | 3.1 | 3% | 3% | 4.8 | 1.7 | -65% | -65% |
| 11 | October | 17.2 | 15.4 | -10% | -10% | 37.3 | 34.0 | -9% | -9% | 46.0 | 40.1 | -13% | -13% | 34.7 | 34.7 | 0% | 0% | 9.8 | 9.8 | 0% | 0% | 18.5 | 13.9 | -25% | -25% |
| 11 | November | 6.0 | 4.4 | -26% | -26% | 12.3 | 10.3 | -16% | -16% | 18.1 | 12.8 | -29% | -29% | 12.9 | 12.9 | 0% | 0% | 3.6 | 3.6 | 1% | 1% | 6.1 | 2.6 | -57% | -57% |
| 11 | December | 5.2 | 4.1 | -21% | -21% | 10.8 | 9.5 | -11% | -11% | 16.2 | 11.7 | -28% | -28% | 11.5 | 11.5 | 0% | 0% | 3.2 | 3.3 | 5% | 5% | 5.3 | 2.1 | -61% | -61% |
| 12 | January | 4.5 | 3.8 | -17% | -17% | 9.4 | 10.0 | 6% | 6% | 14.4 | 11.9 | -18% | -18% | 10.4 | 10.4 | 0% | 0% | 2.9 | 2.9 | 1% | 1% | 4.6 | 1.6 | -65% | -65% |
| 12 | February | 3.6 | 3.1 | -14% | -14% | 7.6 | 8.5 | 11% | 11% | 11.8 | 10.0 | -15% | -15% | 8.4 | 8.4 | 0% | 0% | 2.6 | 2.6 | 2% | 2% | 4.2 | 1.3 | -70% | -70% |
| 12 | March | 18.5 | 17.3 | -6% | -6% | 40.3 | 39.2 | -3% | -3% | 48.9 | 45.3 | -7% | -7% | 35.3 | 35.3 | 0% | 0% | 10.8 | 10.9 | 1% | 1% | 20.1 | 15.6 | -23% | -23% |
| 12 | April | 38.1 | 36.3 | -5% | -5% | 82.3 | 81.0 | -2% | -2% | 100.4 | 97.3 | -3% | -3% | 69.2 | 69.2 | 0% | 0% | 26.1 | 26.3 | 1% | 1% | 42.8 | 38.8 | -9% | -9% |
| 12 | May | 92.4 | 92.2 | 0% | 0% | 199.5 | 199.9 | 0% | 0% | 248.5 | 249.8 | 1% | 1% | 182.4 | 182.4 | 0% | 0% | 61.8 | 62.4 | 1% | 1% | 101.0 | 97.1 | -4% | -4% |

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| 12 | June | 65.8 | 63.4 | -4% | -4% | 139.7 | 137.9 | -1% | -1% | 176.6 | 174.6 | -1% | -1% | 130.0 | 130.0 | 0% | 0% | 43.7 | 44.2 | 1% | 1% | 72.0 | 68.1 | -5% | -5% |
| 12 | July | 7.5 | 5.2 | -30% | -15% | 15.3 | 13.9 | -9% | -4% | 22.9 | 17.2 | -25% | -13% | 16.0 | 16.0 | 0% | 0% | 4.1 | 4.2 | 4% | 1% | 7.2 | 3.7 | -49% | -16% |
| 12 | August | 6.2 | 4.6 | -26% | -26% | 12.7 | 12.4 | -3% | -3% | 19.0 | 15.0 | -21% | -21% | 13.3 | 13.3 | 0% | 0% | 3.6 | 3.7 | 3% | 3% | 6.1 | 2.8 | -54% | -54% |
| 12 | September | 12.7 | 10.8 | -15% | -15% | 26.6 | 25.2 | -5% | -5% | 34.9 | 30.2 | -13% | -13% | 27.4 | 27.4 | 0% | 0% | 6.3 | 6.4 | 2% | 2% | 13.1 | 9.1 | -30% | -30% |
| 12 | October | 11.6 | 9.7 | -17% | -17% | 24.0 | 22.7 | -5% | -5% | 31.7 | 27.0 | -15% | -15% | 23.4 | 23.4 | 0% | 0% | 6.1 | 6.2 | 2% | 2% | 11.4 | 7.6 | -33% | -33% |
| 12 | November | 6.0 | 4.7 | -23% | -23% | 12.6 | 12.5 | -1% | -1% | 18.3 | 15.0 | -18% | -18% | 12.5 | 12.6 | 0% | 0% | 3.9 | 4.0 | 3% | 3% | 6.4 | 3.2 | -50% | -50% |
| 12 | December | 5.3 | 4.3 | -19% | -19% | 11.2 | 11.7 | 5% | 5% | 16.6 | 13.9 | -16% | -16% | 11.3 | 11.3 | 0% | 0% | 3.5 | 3.6 | 3% | 3% | 5.5 | 2.5 | -54% | -54% |
| 13 | January | 4.7 | 4.7 | 0% | 0% | 9.9 | 6.0 | -40% | -40% | 15.0 | 9.3 | -38% | -38% | 11.1 | 5.4 | -52% | -52% | 3.1 | 3.2 | 0% | 0% | 4.9 | 0.3 | -95% | -95% |
| 13 | February | 3.8 | 4.2 | 11% | 11% | 8.0 | 4.6 | -43% | -43% | 12.3 | 7.8 | -36% | -36% | 9.2 | 7.5 | -18% | -18% | 2.8 | 2.8 | 1% | 1% | 4.4 | 0.0 | -99% | -99% |
| 13 | March | 4.0 | 3.9 | -3% | -3% | 8.5 | 4.1 | -52% | -52% | 13.1 | 7.3 | -44% | -44% | 9.8 | 7.8 | -20% | -20% | 2.6 | 2.6 | 0% | 0% | 4.2 | 0.0 | -100% | -100% |
| 13 | April | 11.1 | 10.7 | -4% | -4% | 24.2 | 15.8 | -35% | -35% | 31.5 | 21.5 | -32% | -32% | 24.1 | 28.3 | 17% | 17% | 5.7 | 4.6 | -20% | -17% | 12.7 | 5.6 | -56% | -56% |
| 13 | May | 31.4 | 30.2 | -4% | -3% | 67.9 | 58.9 | -13% | -11% | 82.3 | 71.5 | -13% | -9% | 54.8 | 55.9 | 2% | 2% | 20.6 | 18.3 | -11% | -6% | 34.9 | 27.4 | -21% | -14% |
| 13 | June | 49.7 | 50.9 | 2% | 2% | 107.6 | 102.8 | -5% | -4% | 133.8 | 126.6 | -5% | -5% | 94.9 | 97.0 | 2% | 2% | 34.4 | 30.6 | -11% | -8% | 57.5 | 49.5 | -14% | -11% |
| 13 | July | 6.8 | 6.6 | -3% | -1% | 14.2 | 7.2 | -49% | -18% | 21.0 | 12.6 | -40% | -20% | 15.3 | 13.1 | -14% | -7% | 4.0 | 4.0 | 1% | 0% | 6.9 | 0.7 | -90% | -28% |
| 13 | August | 5.8 | 5.8 | -1% | -1% | 12.0 | 6.1 | -49% | -49% | 17.9 | 11.1 | -38% | -38% | 13.2 | 11.1 | -16% | -16% | 3.6 | 3.6 | 0% | 0% | 5.8 | 0.3 | -96% | -96% |
| 13 | September | 5.1 | 5.2 | 1% | 1% | 10.5 | 5.4 | -49% | -49% | 15.8 | 10.2 | -36% | -36% | 12.1 | 10.5 | -13% | -13% | 3.2 | 3.2 | 1% | 1% | 5.2 | 0.1 | -98% | -98% |
| 13 | October | 9.7 | 9.2 | -6% | -6% | 20.6 | 11.6 | -44% | -44% | 27.9 | 17.9 | -36% | -36% | 22.9 | 24.3 | 6% | 6% | 4.4 | 3.7 | -16% | -16% | 10.1 | 3.0 | -71% | -71% |
| 13 | November | 5.3 | 5.3 | 0% | 0% | 11.0 | 5.6 | -49% | -49% | 16.0 | 10.4 | -35% | -35% | 12.1 | 10.6 | -12% | -12% | 3.3 | 3.3 | 1% | 1% | 5.5 | 0.2 | -97% | -97% |
| 13 | December | 4.8 | 4.8 | 0% | 0% | 10.0 | 4.9 | -51% | -51% | 14.7 | 9.4 | -36% | -36% | 11.0 | 9.2 | -16% | -16% | 3.2 | 3.2 | 0% | 0% | 5.0 | 0.1 | -99% | -99% |
| 14 | January | 4.2 | 4.2 | 0% | 0% | 8.9 | 4.3 | -52% | -52% | 13.2 | 8.5 | -35% | -35% | 10.0 | 8.4 | -15% | -15% | 2.8 | 2.8 | 1% | 1% | 4.4 | 0.0 | -100% | -100% |
| 14 | February | 3.4 | 3.8 | 13% | 13% | 7.2 | 3.8 | -48% | -48% | 10.8 | 7.8 | -28% | -28% | 8.2 | 7.7 | -6% | -6% | 2.5 | 2.6 | 1% | 1% | 4.1 | 0.0 | -100% | -100% |
| 14 | March | 3.3 | 3.4 | 1% | 1% | 7.3 | 3.3 | -55% | -55% | 11.0 | 7.1 | -35% | -35% | 8.3 | 7.1 | -14% | -14% | 2.3 | 2.3 | 0% | 0% | 3.8 | 0.0 | -100% | -100% |
| 14 | April | 21.5 | 21.3 | -1% | -1% | 47.2 | 38.2 | -19% | -19% | 56.2 | 47.4 | -16% | -16% | 39.6 | 46.4 | 17% | 17% | 13.5 | 11.2 | -17% | -17% | 25.2 | 17.4 | -31% | -31% |
| 14 | May | 34.0 | 32.9 | -3% | -3% | 73.2 | 64.1 | -12% | -11% | 89.6 | 79.4 | -11% | -9% | 60.2 | 61.0 | 1% | 1% | 22.1 | 19.6 | -11% | -7% | 37.5 | 29.9 | -20% | -15% |
| 14 | June | 8.9 | 8.5 | -5% | -1% | 18.5 | 11.1 | -40% | -6% | 25.1 | 17.1 | -32% | -6% | 19.5 | 19.5 | 0% | 0% | 4.6 | 4.3 | -6% | -1% | 9.2 | 2.7 | -71% | -9% |
| 14 | July | 6.0 | 5.8 | -4% | -1% | 12.5 | 6.2 | -51% | -16% | 18.0 | 11.2 | -38% | -16% | 13.4 | 11.5 | -15% | -7% | 3.7 | 3.8 | 1% | 0% | 6.1 | 0.3 | -94% | -26% |
| 14 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 5.3 | -50% | -50% | 15.6 | 10.1 | -36% | -36% | 11.7 | 10.0 | -15% | -15% | 3.3 | 3.3 | 1% | 1% | 5.2 | 0.1 | -98% | -98% |
| 14 | September | 4.3 | 4.6 | 6% | 6% | 9.1 | 4.7 | -48% | -48% | 13.5 | 9.2 | -32% | -32% | 10.4 | 9.1 | -12% | -12% | 2.9 | 3.0 | 0% | 0% | 4.7 | 0.0 | -99% | -99% |
| 14 | October | 7.3 | 7.0 | -5% | -5% | 15.4 | 7.2 | -53% | -53% | 21.1 | 12.8 | -39% | -39% | 17.2 | 18.2 | 6% | 6% | 3.4 | 3.0 | -14% | -14% | 7.5 | 0.9 | -88% | -88% |
| 14 | November | 4.5 | 4.6 | 2% | 2% | 9.5 | 4.8 | -50% | -50% | 13.7 | 9.2 | -33% | -33% | 10.5 | 9.3 | -11% | -11% | 2.9 | 2.9 | 1% | 1% | 4.9 | 0.0 | -99% | -99% |
| 14 | December | 4.0 | 4.0 | 2% | 2% | 8.6 | 4.1 | -52% | -52% | 12.5 | 8.2 | -34% | -34% | 9.5 | 8.2 | -14% | -14% | 2.7 | 2.8 | 1% | 1% | 4.4 | 0.0 | -100% | -100% |
| 15 | January | 3.5 | 3.6 | 1% | 1% | 7.8 | 3.6 | -54% | -54% | 11.3 | 7.5 | -34% | -34% | 8.6 | 7.5 | -13% | -13% | 2.5 | 2.5 | 0% | 0% | 4.0 | 0.0 | -99% | -99% |
| 15 | February | 3.0 | 3.3 | 9% | 9% | 6.7 | 3.2 | -52% | -52% | 9.8 | 6.9 | -30% | -30% | 7.3 | 6.9 | -5% | -5% | 2.3 | 2.3 | 0% | 0% | 3.7 | 0.0 | -100% | -100% |
| 15 | March | 3.0 | 3.0 | 1% | 1% | 6.6 | 2.9 | -56% | -56% | 9.6 | 6.3 | -35% | -35% | 7.1 | 6.3 | -10% | -10% | 2.1 | 2.1 | 0% | 0% | 3.5 | 0.0 | -100% | -100% |
| 15 | April | 6.7 | 6.3 | -5% | -5% | 14.3 | 6.7 | -53% | -38% | 19.2 | 11.8 | -39% | -30% | 15.9 | 19.7 | 24% | 24% | 3.0 | 2.3 | -24% | -11% | 7.2 | 1.3 | -82% | -54% |
| 15 | May | 29.6 | 28.5 | -4% | -3% | 64.9 | 56.7 | -13% | -10% | 75.9 | 67.8 | -11% | -7% | 49.8 | 53.8 | 8% | 6% | 19.1 | 16.5 | -13% | -7% | 33.6 | 26.9 | -20% | -13% |
| 15 | June | 42.2 | 42.8 | 2% | 1% | 91.3 | 87.0 | -5% | -4% | 111.6 | 106.2 | -5% | -4% | 76.9 | 79.5 | 3% | 3% | 29.0 | 25.7 | -11% | -7% | 48.7 | 42.0 | -14% | -9% |
| 15 | July | 6.4 | 6.1 | -5% | -2% | 13.2 | 7.3 | -45% | -15% | 19.0 | 12.4 | -34% | -15% | 14.0 | 12.2 | -13% | -6% | 3.7 | 3.7 | 1% | 0% | 6.4 | 1.3 | -79% | -23% |
| 15 | August | 5.4 | 5.3 | -2% | -2% | 11.1 | 5.8 | -48% | -48% | 16.4 | 10.7 | -34% | -34% | 12.4 | 10.6 | -15% | -15% | 3.3 | 3.3 | 1% | 1% | 5.4 | 0.6 | -90% | -90% |
| 15 | September | 7.7 | 7.6 | -2% | -2% | 16.1 | 11.0 | -32% | -32% | 22.2 | 16.9 | -24% | -24% | 18.1 | 19.1 | 6% | 6% | 3.7 | 3.3 | -12% | -12% | 8.0 | 3.2 | -60% | -60% |
| 15 | October | 18.4 | 17.5 | -5% | -5% | 39.4 | 33.0 | -16% | -16% | 48.2 | 41.4 | -14% | -14% | 35.7 | 37.1 | 4% | 4% | 10.8 | 9.6 | -11% | -11% | 19.8 | 14.6 | -27% | -27% |
| 15 | November | 5.8 | 5.7 | -1% | -1% | 12.2 | 7.4 | -39% | -39% | 17.6 | 12.7 | -27% | -27% | 12.9 | 11.5 | -11% | -11% | 3.8 | 3.8 | 1% | 1% | 6.2 | 1.6 | -73% | -73% |
| 15 | December | 5.1 | 5.1 | 0% | 0% | 10.6 | 6.0 | -44% | -44% | 15.6 | 11.0 | -30% | -30% | 11.6 | 10.0 | -14% | -14% | 3.4 | 3.4 | 1% | 1% | 5.3 | 1.0 | -82% | -82% |
| 16 | January | 4.4 | 4.5 | 1% | 1% | 9.4 | 5.0 | -47% | -47% | 13.9 | 9.6 | -31% | -31% | 10.5 | 9.0 | -15% | -15% | 3.0 | 3.0 | 1% | 1% | 4.7 | 0.5 | -89% | -89% |
| 16 | February | 3.5 | 4.0 | 13% | 13% | 7.5 | 4.3 | -44% | -44% | 11.3 | 8.7 | -23% | -23% | 8.7 | 8.3 | -5% | -5% | 2.6 | 2.7 | 1% | 1% | 4.2 | 0.2 | -95% | -95% |
| 16 | March | 3.5 | 3.5 | 2% | 2% | 7.5 | 3.8 | -50% | -50% | 11.4 | 7.9 | -31% | -31% | 8.7 | 7.6 | -13% | -13% | 2.4 | 2.4 | 1% | 1% | 3.9 | 0.1 | -96% | -96% |
| 16 | April | 7.3 | 7.1 | -4% | -4% | 15.5 | 11.9 | -23% | -18% | 21.0 | 17.6 | -16% | -14% | 17.5 | 20.8 | 19% | 19% | 3.2 | 2.5 | -23% | -11% | 7.8 | 4.4 | -43% | -31% |
| 16 | May | 81.7 | 82.2 | 1% | 1% | 179.7 | 175.2 | -3% | -3% | 217.5 | 212.4 | -2% | -2% | 149.8 | 151.9 | 1% | 1% | 56.5 | 49.3 | -13% | -13% | 94.3 | 88.2 | -6% | -6% |
| 16 | June | 68.5 | 70.3 | 3% | 3% | 146.0 | 145.8 | 0% | 0% | 183.2 | 183.2 | 0% | 0% | 133.9 | 136.2 | 2% | 2% | 45.9 | 40.5 | -12% | -11% | 77.1 | 71.7 | -7% | -7% |
| 16 | July | 7.0 | 6.9 | -3% | -1% | 14.1 | 10.6 | -25% | -9% | 21.1 | 17.0 | -20% | -10% | 16.0 | 13.6 | -14% | -8% | 3.8 | 3.8 | 1% | 0% | 6.6 | 3.4 | -47% | -14% |
| 16 | August | 5.8 | 5.8 | -1% | -1% | 11.8 | 8.6 | -27% | -27% | 17.8 | 14.1 | -21% | -21% | 13.4 | 11.5 | -14% | -14% | 3.4 | 3.4 | 1% | 1% | 5.6 | 2.6 | -53% | -53% |
| 16 | September | 6.1 | 6.1 | -1% | -1% | 12.5 | 9.7 | -23% | -23% | 18.3 | 15.2 | -17% | -17% | 14.7 | 14.2 | -3% | -3% | 3.4 | 3.3 | -3% | -3% | 6.1 | 3.2 | -47% | -47% |
| 16 | October | 5.4 | 5.1 | -5% | -5% | 10.8 | 7.5 | -31% | -31% | 16.2 | 12.5 | -23% | -23% | 12.6 | 11.0 | -13% | -13% | 3.0 | 3.0 | 1% | 1% | 5.0 | 2.1 | -57% | -57% |
| 16 | November | 4.9 | 4.7 | -3% | -3% | 9.8 | 7.0 | -29% | -29% | 14.9 | 11.9 | -20% | -20% | 11.6 | 10.8 | -7% | -7% | 2.9 | 2.9 | 0% | 0% | 4.8 | 2.1 | -57% | -57% |
| 16 | December | 4.4 | 4.2 | -4% | -4% | 9.0 | 6.0 | -33% | -33% | 13.7 | 10.6 | -22% | -22% | 10.5 | 9.4 | -11% | -11% | 2.6 | 2.6 | 1% | 1% | 4.3 | 1.6 | -62% | -62% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | January | 3.9 | 3.8 | -3% | -3% | 8.1 | 5.3 | -34% | -34% | 12.4 | 9.7 | -22% | -22% | 9.4 | 8.5 | -10% | -10% | 2.4 | 2.4 | 0% | 0% | 4.0 | 1.4 | -65% | -65% |
| 17 | February | 3.1 | 3.4 | 9% | 9% | 6.7 | 5.0 | -25% | -25% | 10.2 | 9.1 | -11% | -11% | 7.7 | 7.8 | 1% | 1% | 2.2 | 2.3 | 2% | 2% | 3.7 | 1.5 | -60% | -60% |
| 17 | March | 3.1 | 3.1 | -1% | -1% | 6.8 | 4.5 | -34% | -34% | 10.4 | 8.3 | -21% | -21% | 7.8 | 7.1 | -8% | -8% | 2.1 | 2.1 | 0% | 0% | 3.5 | 1.3 | -63% | -63% |
| 17 | April | 5.4 | 5.1 | -5% | -4% | 11.4 | 10.0 | -12% | -7% | 16.1 | 14.9 | -8% | -5% | 13.4 | 16.1 | 20% | 17% | 2.7 | 2.2 | -19% | -8% | 5.7 | 4.3 | -24% | -12% |
| 17 | May | 47.4 | 46.5 | -2% | -2% | 104.5 | 101.0 | -3% | -3% | 124.8 | 120.5 | -3% | -3% | 83.5 | 88.2 | 6% | 6% | 31.3 | 26.8 | -14% | -12% | 54.6 | 51.1 | -6% | -6% |
| 17 | June | 57.4 | 59.4 | 3% | 3% | 123.5 | 125.1 | 1% | 1% | 152.9 | 154.6 | 1% | 1% | 110.7 | 114.2 | 3% | 3% | 38.9 | 34.3 | -12% | -9% | 65.8 | 62.3 | -5% | -5% |
| 17 | July | 6.7 | 6.4 | -4% | -2% | 13.6 | 11.7 | -14% | -5% | 20.2 | 17.8 | -12% | -6% | 14.9 | 13.2 | -12% | -6% | 3.6 | 3.6 | 1% | 0% | 6.3 | 4.8 | -24% | -7% |
| 17 | August | 5.7 | 5.6 | -1% | -1% | 11.5 | 10.0 | -13% | -13% | 17.2 | 15.3 | -11% | -11% | 13.1 | 11.4 | -13% | -13% | 3.3 | 3.3 | 1% | 1% | 5.4 | 4.0 | -26% | -26% |
| 17 | September | 4.8 | 4.9 | 1% | 1% | 9.7 | 8.6 | -12% | -12% | 14.8 | 13.5 | -9% | -9% | 11.5 | 10.3 | -10% | -10% | 2.9 | 3.0 | 0% | 0% | 4.7 | 3.3 | -29% | -29% |
| 17 | October | 4.4 | 4.4 | 0% | 0% | 8.9 | 7.6 | -15% | -15% | 13.8 | 12.2 | -11% | -11% | 10.8 | 9.4 | -13% | -13% | 2.6 | 2.6 | 1% | 1% | 4.3 | 2.9 | -33% | -33% |
| 17 | November | 3.9 | 3.9 | 2% | 2% | 7.9 | 6.8 | -14% | -14% | 12.2 | 11.2 | -8% | -8% | 9.5 | 8.7 | -9% | -9% | 2.3 | 2.4 | 1% | 1% | 3.9 | 2.6 | -34% | -34% |
| 17 | December | 3.6 | 3.6 | 0% | 0% | 7.4 | 6.4 | -14% | -14% | 11.5 | 10.5 | -9% | -9% | 8.8 | 7.9 | -10% | -10% | 2.2 | 2.2 | -1% | -1% | 3.6 | 2.6 | -29% | -29% |
| 18 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.4 | -5% | -5% | 10.5 | 10.3 | -2% | -2% | 8.0 | 7.3 | -9% | -9% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.0 | -11% | -11% |
| 18 | February | 2.6 | 2.8 | 10% | 10% | 5.6 | 6.2 | 11% | 11% | 8.7 | 9.8 | 13% | 13% | 6.6 | 6.7 | 2% | 2% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.1 | -2% | -2% |
| 18 | March | 2.6 | 2.6 | 1% | 1% | 5.8 | 6.0 | 4% | 4% | 8.9 | 9.4 | 6% | 6% | 6.6 | 6.1 | -7% | -7% | 1.7 | 1.8 | 1% | 1% | 3.0 | 3.2 | 5% | 5% |
| 18 | April | 15.1 | 14.8 | -2% | -2% | 33.6 | 35.6 | 6% | 6% | 41.3 | 43.1 | 4% | 4% | 30.3 | 38.3 | 26% | 26% | 8.3 | 6.3 | -24% | -24% | 17.8 | 19.0 | 7% | 7% |
| 18 | May | 47.8 | 47.0 | -2% | -2% | 104.1 | 102.3 | -2% | -2% | 124.9 | 122.4 | -2% | -2% | 84.3 | 86.0 | 2% | 2% | 31.8 | 27.9 | -12% | -10% | 53.9 | 52.1 | -3% | -3% |
| 18 | June | 52.8 | 54.5 | 3% | 3% | 113.5 | 118.3 | 4% | 4% | 140.9 | 145.9 | 4% | 4% | 102.9 | 105.8 | 3% | 3% | 35.6 | 31.5 | -12% | -8% | 60.3 | 60.5 | 0% | 0% |
| 18 | July | 6.5 | 6.3 | -3% | -1% | 13.3 | 13.6 | 2% | 1% | 19.8 | 19.5 | -1% | -1% | 14.7 | 12.9 | -12% | -6% | 3.6 | 3.6 | 1% | 0% | 6.2 | 6.7 | 8% | 2% |
| 18 | August | 5.6 | 5.4 | -3% | -3% | 11.2 | 11.1 | -1% | -1% | 16.9 | 16.3 | -3% | -3% | 12.8 | 11.1 | -13% | -13% | 3.2 | 3.2 | 1% | 1% | 5.2 | 5.2 | 0% | 0% |
| 18 | September | 4.7 | 4.8 | 3% | 3% | 9.4 | 9.7 | 3% | 3% | 14.4 | 14.6 | 1% | 1% | 11.2 | 10.0 | -11% | -11% | 2.8 | 2.9 | 1% | 1% | 4.6 | 4.6 | 0% | 0% |
| 18 | October | 8.2 | 7.7 | -6% | -6% | 17.1 | 16.7 | -2% | -2% | 23.8 | 22.8 | -4% | -4% | 19.8 | 21.2 | 7% | 7% | 3.5 | 2.9 | -16% | -16% | 8.1 | 8.1 | -1% | -1% |
| 18 | November | 5.1 | 4.9 | -4% | -4% | 10.3 | 10.5 | 2% | 2% | 15.2 | 15.4 | 1% | 1% | 11.7 | 10.7 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 5.0 | 5.2 | 5% | 5% |
| 18 | December | 4.4 | 4.4 | -2% | -2% | 9.2 | 9.3 | 1% | 1% | 13.7 | 13.8 | 1% | 1% | 10.5 | 9.2 | -12% | -12% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.7 | 3% | 3% |
| 19 | January | 3.9 | 3.9 | -1% | -1% | 8.2 | 8.3 | 1% | 1% | 12.3 | 12.5 | 2% | 2% | 9.3 | 8.3 | -11% | -11% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.2 | 3% | 3% |
| 19 | February | 3.2 | 3.4 | 7% | 7% | 6.9 | 7.6 | 11% | 11% | 10.4 | 11.6 | 11% | 11% | 8.0 | 7.7 | -3% | -3% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 5% | 5% |
| 19 | March | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.8 | 1% | 1% | 10.2 | 10.5 | 3% | 3% | 7.7 | 7.0 | -8% | -8% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.4 | -1% | -1% |
| 19 | April | 5.7 | 5.4 | -5% | -4% | 11.9 | 11.8 | -1% | 0% | 16.6 | 16.8 | 1% | 1% | 14.0 | 16.9 | 21% | 18% | 2.8 | 2.2 | -20% | -8% | 5.9 | 5.7 | -3% | -2% |
| 19 | May | 11.7 | 10.7 | -8% | -2% | 25.8 | 24.6 | -5% | -1% | 32.2 | 30.7 | -5% | -1% | 23.0 | 26.9 | 17% | 6% | 6.1 | 5.0 | -17% | -3% | 13.2 | 12.7 | -4% | -1% |
| 19 | June | 5.2 | 4.8 | -8% | -1% | 10.8 | 10.6 | -2% | 0% | 14.8 | 14.7 | -1% | 0% | 11.1 | 10.7 | -4% | -1% | 3.1 | 3.1 | 1% | 0% | 5.4 | 5.4 | -1% | 0% |
| 19 | July | 4.7 | 4.6 | -2% | -1% | 9.9 | 9.8 | -1% | 0% | 13.5 | 13.6 | 0% | 0% | 10.1 | 9.1 | -10% | -3% | 3.0 | 3.1 | 1% | 0% | 4.9 | 4.9 | -1% | 0% |
| 19 | August | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.7 | 0% | 0% | 12.1 | 12.3 | 2% | 2% | 9.1 | 8.0 | -11% | -11% | 2.8 | 2.8 | 0% | 0% | 4.4 | 4.3 | -1% | -1% |
| 19 | September | 3.5 | 3.7 | 6% | 6% | 7.5 | 7.8 | 4% | 4% | 10.6 | 11.3 | 6% | 6% | 7.8 | 7.4 | -6% | -6% | 2.5 | 2.5 | 1% | 1% | 4.0 | 3.9 | -2% | -2% |
| 19 | October | 9.5 | 8.9 | -7% | -7% | 20.6 | 20.1 | -2% | -2% | 26.4 | 25.7 | -3% | -3% | 20.1 | 23.9 | 19% | 19% | 4.7 | 3.7 | -21% | -21% | 10.3 | 10.2 | -1% | -1% |
| 19 | November | 4.4 | 4.3 | -2% | -2% | 9.3 | 10.0 | 7% | 7% | 12.8 | 13.6 | 7% | 7% | 9.3 | 8.6 | -7% | -7% | 2.8 | 2.8 | 1% | 1% | 4.8 | 5.4 | 12% | 12% |
| 19 | December | 3.9 | 3.9 | 0% | 0% | 8.6 | 8.8 | 3% | 3% | 11.8 | 12.2 | 3% | 3% | 8.5 | 7.6 | -11% | -11% | 2.8 | 2.8 | 1% | 1% | 4.4 | 4.6 | 4% | 4% |
| 20 | January | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.3 | 7% | 7% | 10.8 | 11.6 | 7% | 7% | 7.7 | 7.0 | -10% | -10% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.5 | 13% | 13% |
| 20 | February | 2.9 | 3.2 | 12% | 12% | 6.4 | 7.8 | 22% | 22% | 9.0 | 10.9 | 22% | 22% | 6.4 | 6.5 | 2% | 2% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.3 | 18% | 18% |
| 20 | March | 2.9 | 3.0 | 1% | 1% | 6.5 | 6.7 | 3% | 3% | 9.2 | 9.7 | 5% | 5% | 6.4 | 6.0 | -7% | -7% | 2.1 | 2.1 | 1% | 1% | 3.4 | 3.5 | 4% | 4% |
| 20 | April | 39.5 | 40.1 | 1% | 1% | 87.5 | 90.0 | 3% | 3% | 103.1 | 106.1 | 3% | 3% | 67.2 | 75.9 | 13% | 13% | 27.4 | 23.2 | -15% | -15% | 47.3 | 46.7 | -1% | -1% |
| 20 | May | 80.4 | 81.0 | 1% | 1% | 173.9 | 175.7 | 1% | 1% | 213.5 | 214.1 | 0% | 0% | 152.2 | 151.8 | 0% | 0% | 53.6 | 47.1 | -12% | -12% | 90.1 | 90.0 | 0% | 0% |
| 20 | June | 42.2 | 42.6 | 1% | 1% | 88.8 | 91.9 | 3% | 3% | 112.4 | 114.9 | 2% | 2% | 83.2 | 84.6 | 2% | 2% | 27.2 | 24.2 | -11% | -6% | 46.3 | 46.7 | 1% | 1% |
| 20 | July | 6.8 | 6.7 | -2% | -1% | 13.7 | 14.1 | 2% | 1% | 20.5 | 20.2 | -2% | -1% | 15.4 | 13.4 | -13% | -7% | 3.7 | 3.7 | 1% | 0% | 6.5 | 6.9 | 6% | 2% |
| 20 | August | 5.6 | 5.6 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.3 | 16.7 | -3% | -3% | 13.1 | 11.4 | -13% | -13% | 3.3 | 3.4 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 20 | September | 6.5 | 6.4 | -2% | -2% | 13.2 | 13.3 | 1% | 1% | 19.2 | 18.9 | -2% | -2% | 15.4 | 15.6 | 1% | 1% | 3.4 | 3.2 | -6% | -6% | 6.4 | 6.3 | -2% | -2% |
| 20 | October | 5.6 | 5.2 | -7% | -7% | 11.3 | 11.0 | -3% | -3% | 16.8 | 16.0 | -5% | -5% | 13.0 | 11.7 | -10% | -10% | 3.1 | 3.2 | 1% | 1% | 5.3 | 5.4 | 1% | 1% |
| 20 | November | 4.6 | 4.6 | 0% | 0% | 9.4 | 9.7 | 4% | 4% | 14.2 | 14.4 | 2% | 2% | 11.0 | 10.1 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.6 | 4.8 | 3% | 3% |
| 20 | December | 4.2 | 4.1 | -2% | -2% | 8.6 | 8.7 | 1% | 1% | 13.1 | 13.1 | 0% | 0% | 10.0 | 9.1 | -10% | -10% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.3 | 4% | 4% |
| 21 | January | 3.7 | 3.6 | -1% | -1% | 7.7 | 7.9 | 2% | 2% | 11.9 | 12.1 | 1% | 1% | 9.0 | 8.2 | -8% | -8% | 2.3 | 2.4 | 1% | 1% | 3.8 | 4.0 | 3% | 3% |
| 21 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.7 | 20% | 20% | 9.8 | 11.6 | 18% | 18% | 7.4 | 7.6 | 3% | 3% | 2.1 | 2.2 | 1% | 1% | 3.6 | 4.2 | 16% | 16% |
| 21 | March | 3.4 | 3.2 | -7% | -7% | 7.3 | 7.0 | -4% | -4% | 11.1 | 10.9 | -1% | -1% | 8.4 | 8.1 | -4% | -4% | 2.1 | 2.2 | 1% | 1% | 3.7 | 3.6 | -2% | -2% |
| 21 | April | 21.3 | 21.0 | -1% | -1% | 47.0 | 47.4 | 1% | 1% | 56.3 | 56.7 | 1% | 1% | 40.2 | 48.2 | 20% | 20% | 13.0 | 10.6 | -18% | -18% | 25.0 | 24.3 | -3% | -3% |
| 21 | May | 28.1 | 27.0 | -4% | -3% | 60.0 | 59.5 | -1% | -1% | 73.3 | 71.9 | -2% | -1% | 49.9 | 51.5 | 3% | 2% | 17.5 | 15.6 | -11% | -5% | 30.5 | 30.5 | 0% | 0% |
| 21 | June | 8.2 | 7.7 | -5% | -1% | 17.0 | 17.1 | 0% | 0% | 23.5 | 23.0 | -2% | 0% | 17.9 | 18.3 | 2% | 1% | 4.2 | 4.0 | -5% | 0% | 8.5 | 8.6 | 1% | 0% |
| 21 | July | 6.0 | 5.7 | -4% | -2% | 12.4 | 12.2 | -1% | 0% | 17.8 | 17.3 | -3% | -1% | 13.1 | 11.7 | -11% | -5% | 3.7 | 3.7 | 1% | 0% | 6.0 | 6.0 | 1% | 0% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | August | 5.1 | 5.0 | -1% | -1% | 10.6 | 10.5 | 0% | 0% | 15.4 | 15.2 | -1% | -1% | 11.7 | 10.4 | -11% | -11% | 3.3 | 3.3 | 1% | 1% | 5.2 | 5.1 | -1% | -1% |
| 21 | September | 5.5 | 5.5 | -1% | -1% | 11.5 | 11.6 | 1% | 1% | 16.4 | 16.6 | 1% | 1% | 13.0 | 13.1 | 1% | 1% | 3.3 | 3.2 | -4% | -4% | 5.7 | 5.6 | -2% | -2% |
| 21 | October | 4.9 | 4.7 | -4% | -4% | 10.3 | 10.1 | -2% | -2% | 14.8 | 14.7 | -1% | -1% | 11.5 | 10.6 | -8% | -8% | 3.0 | 3.0 | 1% | 1% | 5.0 | 5.0 | 0% | 0% |
| 21 | November | 5.2 | 5.0 | -3% | -3% | 10.8 | 11.5 | 7% | 7% | 15.3 | 16.3 | 6% | 6% | 12.2 | 12.5 | 3% | 3% | 3.1 | 3.0 | -3% | -3% | 5.4 | 6.1 | 12% | 12% |
| 21 | December | 4.4 | 4.2 | -3% | -3% | 9.2 | 9.4 | 2% | 2% | 13.2 | 13.6 | 3% | 3% | 10.1 | 9.4 | -7% | -7% | 2.7 | 2.7 | 1% | 1% | 4.6 | 4.8 | 5% | 5% |
| 22 | January | 3.8 | 3.7 | -1% | -1% | 8.2 | 8.5 | 4% | 4% | 11.8 | 12.4 | 5% | 5% | 8.9 | 8.4 | -6% | -6% | 2.5 | 2.5 | 1% | 1% | 4.2 | 4.5 | 8% | 8% |
| 22 | February | 3.1 | 3.4 | 11% | 11% | 6.8 | 8.3 | 22% | 22% | 9.8 | 12.0 | 22% | 22% | 7.4 | 7.8 | 5% | 5% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.6 | 20% | 20% |
| 22 | March | 3.1 | 3.1 | 0% | 0% | 7.0 | 7.2 | 3% | 3% | 10.1 | 10.6 | 5% | 5% | 7.4 | 7.1 | -4% | -4% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.8 | 4% | 4% |
| 22 | April | 6.3 | 6.0 | -5% | -5% | 13.5 | 13.5 | 0% | 0% | 18.3 | 18.4 | 1% | 0% | 14.9 | 18.7 | 25% | 24% | 2.9 | 2.3 | -21% | -9% | 6.8 | 6.7 | -2% | -1% |
| 22 | May | 72.1 | 72.3 | 0% | 0% | 158.9 | 159.8 | 1% | 1% | 190.4 | 190.3 | 0% | 0% | 129.0 | 132.8 | 3% | 3% | 49.2 | 42.7 | -13% | -13% | 83.4 | 82.8 | -1% | -1% |
| 22 | June | 88.2 | 91.2 | 3% | 3% | 188.6 | 196.4 | 4% | 4% | 235.1 | 243.6 | 4% | 4% | 171.8 | 175.1 | 2% | 2% | 59.6 | 52.4 | -12% | -12% | 100.0 | 100.0 | 0% | 0% |
| 22 | July | 7.1 | 6.9 | -3% | -1% | 14.2 | 14.8 | 4% | 2% | 21.2 | 21.0 | -1% | -1% | 16.1 | 14.1 | -12% | -7% | 3.8 | 3.8 | 1% | 0% | 6.5 | 7.4 | 12% | 4% |
| 22 | August | 6.0 | 5.9 | 0% | 0% | 12.0 | 12.0 | 0% | 0% | 18.0 | 17.3 | -4% | -4% | 13.7 | 12.0 | -12% | -12% | 3.4 | 3.4 | 1% | 1% | 5.6 | 5.5 | 0% | 0% |
| 22 | September | 25.6 | 25.2 | -2% | -2% | 54.5 | 55.6 | 2% | 2% | 68.3 | 68.7 | 1% | 1% | 51.1 | 55.0 | 7% | 7% | 15.7 | 13.7 | -13% | -13% | 28.4 | 28.4 | 0% | 0% |
| 22 | October | 9.8 | 9.2 | -6% | -6% | 20.2 | 20.1 | -1% | -1% | 27.8 | 27.1 | -3% | -3% | 21.9 | 21.5 | -2% | -2% | 4.9 | 4.6 | -6% | -6% | 9.6 | 10.0 | 4% | 4% |
| 22 | November | 6.1 | 6.1 | -1% | -1% | 12.6 | 13.8 | 10% | 10% | 18.4 | 19.4 | 5% | 5% | 13.6 | 12.5 | -8% | -8% | 3.9 | 3.9 | 0% | 0% | 6.3 | 7.3 | 16% | 16% |
| 22 | December | 5.4 | 5.3 | -1% | -1% | 11.1 | 11.3 | 2% | 2% | 16.6 | 16.4 | -1% | -1% | 12.3 | 10.9 | -12% | -12% | 3.4 | 3.4 | 0% | 0% | 5.4 | 5.6 | 4% | 4% |
| 23 | January | 4.7 | 4.7 | 0% | 0% | 9.8 | 10.1 | 3% | 3% | 14.8 | 15.0 | 1% | 1% | 11.2 | 9.9 | -11% | -11% | 3.0 | 3.1 | 0% | 0% | 4.8 | 5.0 | 5% | 5% |
| 23 | February | 4.0 | 4.2 | 7% | 7% | 8.2 | 8.8 | 7% | 7% | 12.6 | 13.4 | 6% | 6% | 9.5 | 9.1 | -4% | -4% | 2.7 | 2.7 | -1% | -1% | 4.3 | 4.3 | -2% | -2% |
| 23 | March | 3.7 | 3.8 | 1% | 1% | 7.9 | 8.5 | 7% | 7% | 12.2 | 12.8 | 5% | 5% | 9.2 | 8.4 | -9% | -9% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.5 | 13% | 13% |
| 23 | April | 7.3 | 7.1 | -3% | -3% | 15.3 | 15.6 | 2% | 1% | 21.2 | 21.4 | 1% | 1% | 17.6 | 20.9 | 19% | 19% | 3.2 | 2.5 | -21% | -10% | 7.7 | 7.6 | 0% | 0% |
| 23 | May | 101.0 | 101.9 | 1% | 1% | 221.1 | 222.5 | 1% | 1% | 270.0 | 271.0 | 0% | 0% | 188.5 | 190.1 | 1% | 1% | 69.3 | 60.5 | -13% | -13% | 115.8 | 114.5 | -1% | -1% |
| 23 | June | 30.4 | 30.1 | -1% | -1% | 63.3 | 65.3 | 3% | 2% | 81.0 | 82.4 | 2% | 1% | 59.8 | 61.2 | 2% | 2% | 18.9 | 17.0 | -10% | -4% | 32.5 | 33.2 | 2% | 1% |
| 23 | July | 6.9 | 6.7 | -3% | -1% | 14.0 | 14.1 | 0% | 0% | 20.9 | 20.3 | -3% | -1% | 15.6 | 13.8 | -11% | -6% | 3.8 | 3.9 | 1% | 0% | 6.6 | 6.8 | 2% | 1% |
| 23 | August | 5.8 | 5.7 | -1% | -1% | 11.8 | 11.8 | 0% | 0% | 17.7 | 17.2 | -3% | -3% | 13.3 | 11.8 | -12% | -12% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.6 | 0% | 0% |
| 23 | September | 4.9 | 5.0 | 2% | 2% | 10.0 | 10.2 | 3% | 3% | 15.2 | 15.3 | 1% | 1% | 11.6 | 10.6 | -9% | -9% | 3.0 | 3.1 | 0% | 0% | 4.9 | 4.8 | -1% | -1% |
| 23 | October | 6.3 | 6.0 | -5% | -5% | 12.9 | 12.6 | -3% | -3% | 18.9 | 18.1 | -4% | -4% | 15.3 | 15.4 | 0% | 0% | 3.2 | 3.0 | -7% | -7% | 6.1 | 6.0 | -2% | -2% |
| 23 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 9.9 | 3% | 3% | 14.4 | 14.7 | 2% | 2% | 11.1 | 10.3 | -7% | -7% | 2.8 | 2.8 | 1% | 1% | 4.7 | 4.8 | 2% | 2% |
| 23 | December | 4.2 | 4.1 | -2% | -2% | 8.7 | 8.8 | 1% | 1% | 13.2 | 13.3 | 1% | 1% | 10.0 | 9.1 | -9% | -9% | 2.5 | 2.6 | 1% | 1% | 4.2 | 4.4 | 4% | 4% |
| 24 | January | 3.7 | 3.6 | -2% | -2% | 7.8 | 8.0 | 3% | 3% | 12.0 | 12.3 | 3% | 3% | 9.0 | 8.3 | -7% | -7% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.1 | 6% | 6% |
| 24 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.2 | 13% | 13% | 9.9 | 11.2 | 14% | 14% | 7.4 | 7.7 | 4% | 4% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.7 | 2% | 2% |
| 24 | March | 3.0 | 3.0 | 0% | 0% | 6.6 | 6.7 | 2% | 2% | 10.1 | 10.4 | 4% | 4% | 7.5 | 7.1 | -5% | -5% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 3% | 3% |
| 24 | April | 5.8 | 5.5 | -5% | -4% | 12.2 | 12.4 | 1% | 1% | 17.1 | 17.4 | 2% | 1% | 14.3 | 17.8 | 25% | 22% | 2.7 | 2.1 | -22% | -9% | 6.1 | 6.1 | 0% | 0% |
| 24 | May | 19.9 | 18.7 | -6% | -3% | 43.5 | 42.2 | -3% | -2% | 51.8 | 50.0 | -4% | -2% | 35.8 | 40.7 | 14% | 7% | 11.4 | 9.7 | -15% | -5% | 22.3 | 21.8 | -2% | -1% |
| 24 | June | 27.6 | 27.4 | -1% | 0% | 59.3 | 60.5 | 2% | 1% | 71.6 | 73.0 | 2% | 1% | 48.4 | 51.4 | 6% | 4% | 18.2 | 16.3 | -11% | -4% | 31.3 | 31.1 | 0% | 0% |
| 24 | July | 6.1 | 5.7 | -6% | -2% | 12.7 | 12.7 | 0% | 0% | 18.3 | 17.7 | -3% | -1% | 13.1 | 11.8 | -10% | -4% | 3.6 | 3.6 | 1% | 0% | 6.2 | 6.5 | 5% | 1% |
| 24 | August | 5.2 | 5.1 | -2% | -2% | 10.7 | 10.7 | 0% | 0% | 15.7 | 15.4 | -1% | -1% | 11.5 | 10.3 | -11% | -11% | 3.3 | 3.3 | 1% | 1% | 5.2 | 5.2 | 0% | 0% |
| 24 | September | 4.3 | 4.6 | 6% | 6% | 9.1 | 9.5 | 5% | 5% | 13.5 | 14.0 | 4% | 4% | 10.2 | 9.4 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.6 | 4.6 | 0% | 0% |
| 24 | October | 4.1 | 4.1 | 0% | 0% | 8.6 | 8.6 | 0% | 0% | 12.8 | 12.9 | 1% | 1% | 9.9 | 9.1 | -9% | -9% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 24 | November | 3.5 | 3.6 | 5% | 5% | 7.5 | 7.7 | 4% | 4% | 11.2 | 11.8 | 6% | 6% | 8.7 | 8.3 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.9 | 3.8 | -1% | -1% |
| 24 | December | 3.2 | 3.3 | 2% | 2% | 7.1 | 7.6 | 7% | 7% | 10.5 | 11.4 | 8% | 8% | 8.1 | 7.6 | -6% | -6% | 2.2 | 2.2 | 1% | 1% | 3.6 | 4.0 | 11% | 11% |
| 25 | January | 2.9 | 2.9 | 1% | 1% | 6.5 | 6.7 | 4% | 4% | 9.7 | 10.3 | 6% | 6% | 7.3 | 7.0 | -4% | -4% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 5% | 5% |
| 25 | February | 2.4 | 2.7 | 12% | 12% | 5.5 | 6.5 | 19% | 19% | 8.1 | 9.8 | 20% | 20% | 6.0 | 6.5 | 8% | 8% | 1.9 | 1.9 | 0% | 0% | 3.2 | 3.5 | 11% | 11% |
| 25 | March | 2.5 | 2.5 | 1% | 1% | 5.6 | 5.9 | 4% | 4% | 8.4 | 9.0 | 7% | 7% | 6.0 | 5.9 | -1% | -1% | 1.7 | 1.8 | 1% | 1% | 3.0 | 3.2 | 6% | 6% |
| 25 | April | 30.1 | 30.4 | 1% | 1% | 66.9 | 68.7 | 3% | 3% | 78.9 | 81.2 | 3% | 3% | 53.5 | 62.9 | 18% | 18% | 19.8 | 16.3 | -18% | -18% | 36.1 | 35.5 | -2% | -2% |
| 25 | May | 38.8 | 37.9 | -2% | -2% | 83.7 | 83.6 | 0% | 0% | 101.9 | 100.3 | -2% | -1% | 70.2 | 71.7 | 2% | 2% | 24.9 | 21.9 | -12% | -8% | 43.0 | 43.1 | 0% | 0% |
| 25 | June | 20.2 | 20.0 | -1% | 0% | 42.3 | 43.2 | 2% | 1% | 53.2 | 53.9 | 1% | 1% | 40.0 | 41.8 | 5% | 2% | 12.0 | 10.9 | -10% | -2% | 21.7 | 21.8 | 0% | 0% |
| 25 | July | 6.2 | 5.9 | -4% | -2% | 12.8 | 12.7 | -1% | 0% | 18.7 | 18.2 | -3% | -1% | 13.9 | 12.5 | -10% | -5% | 3.6 | 3.6 | 2% | 0% | 6.2 | 6.3 | 2% | 0% |
| 25 | August | 5.2 | 5.2 | -1% | -1% | 10.8 | 10.7 | 0% | 0% | 16.0 | 15.7 | -2% | -2% | 12.1 | 10.7 | -12% | -12% | 3.2 | 3.2 | 1% | 1% | 5.2 | 5.2 | 0% | 0% |
| 25 | September | 4.8 | 4.8 | 0% | 0% | 9.8 | 10.0 | 2% | 2% | 14.6 | 14.8 | 1% | 1% | 11.4 | 10.7 | -7% | -7% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 25 | October | 7.3 | 6.9 | -6% | -6% | 15.2 | 14.9 | -2% | -2% | 21.3 | 20.6 | -3% | -3% | 17.3 | 18.4 | 7% | 7% | 3.4 | 3.0 | -12% | -12% | 7.3 | 7.2 | -1% | -1% |
| 25 | November | 4.7 | 4.7 | 0% | 0% | 9.7 | 10.2 | 5% | 5% | 14.2 | 14.8 | 5% | 5% | 11.0 | 10.3 | -6% | -6% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.1 | 6% | 6% |
| 25 | December | 4.1 | 4.1 | 0% | 0% | 8.7 | 8.8 | 0% | 0% | 12.9 | 13.1 | 1% | 1% | 9.9 | 9.0 | -9% | -9% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.3 | 0% | 0% |
| 26 | January | 3.6 | 3.6 | 0% | 0% | 7.8 | 8.1 | 4% | 4% | 11.6 | 12.1 | 5% | 5% | 8.9 | 8.2 | -8% | -8% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.2 | 6% | 6% |
| 26 | February | 2.9 | 3.3 | 12% | 12% | 6.4 | 7.3 | 13% | 13% | 9.6 | 11.1 | 16% | 16% | 7.4 | 7.7 | 5% | 5% | 2.2 | 2.3 | 1% | 1% | 3.7 | 3.8 | 2% | 2% |

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| 26 | March | 3.0 | 3.0 | 1% | 1% | 6.6 | 7.1 | 8% | 8% | 9.8 | 10.6 | 9% | 9% | 7.3 | 7.0 | -4% | -4% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.9 | 12% | 12% |
| 26 | April | 10.3 | 9.9 | -4% | -4% | 22.7 | 22.8 | 0% | 0% | 29.0 | 29.0 | 0% | 0% | 22.0 | 28.3 | 29% | 29% | 5.2 | 3.9 | -24% | -19% | 11.9 | 11.6 | -3% | -3% |
| 26 | May | 28.5 | 27.4 | -4% | -3% | 62.0 | 61.0 | -2% | -1% | 73.0 | 72.0 | -1% | -1% | 49.1 | 52.0 | 6% | 4% | 18.4 | 16.2 | -12% | -6% | 31.9 | 31.4 | -1% | -1% |
| 26 | June | 15.4 | 14.9 | -3% | -1% | 32.5 | 32.8 | 1% | 0% | 40.3 | 40.1 | 0% | 0% | 29.0 | 30.5 | 5% | 2% | 9.1 | 8.3 | -9% | -2% | 16.7 | 16.7 | 0% | 0% |
| 26 | July | 5.9 | 5.6 | -5% | -2% | 12.4 | 12.4 | -1% | 0% | 17.8 | 17.3 | -3% | -1% | 12.9 | 11.5 | -11% | -5% | 3.7 | 3.7 | 1% | 0% | 6.1 | 6.3 | 3% | 1% |
| 26 | August | 5.0 | 5.0 | 0% | 0% | 10.5 | 10.5 | 0% | 0% | 15.2 | 15.1 | 0% | 0% | 11.3 | 10.1 | -11% | -11% | 3.3 | 3.3 | 1% | 1% | 5.1 | 5.2 | 0% | 0% |
| 26 | September | 5.9 | 5.9 | 0% | 0% | 12.3 | 12.4 | 1% | 1% | 17.3 | 17.5 | 1% | 1% | 13.8 | 14.3 | 4% | 4% | 3.4 | 3.2 | -6% | -6% | 6.2 | 6.0 | -2% | -2% |
| 26 | October | 8.5 | 8.0 | -7% | -7% | 18.1 | 17.7 | -2% | -2% | 24.2 | 23.6 | -3% | -3% | 19.5 | 20.9 | 7% | 7% | 4.1 | 3.5 | -13% | -13% | 8.9 | 8.9 | 0% | 0% |
| 26 | November | 4.9 | 4.9 | 0% | 0% | 10.5 | 11.1 | 6% | 6% | 14.9 | 15.6 | 5% | 5% | 11.2 | 10.5 | -6% | -6% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.8 | 7% | 7% |
| 26 | December | 4.4 | 4.4 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 13.5 | 14.2 | 5% | 5% | 10.1 | 9.2 | -10% | -10% | 3.1 | 3.1 | 1% | 1% | 4.9 | 5.2 | 8% | 8% |
| 27 | January | 3.9 | 3.9 | 1% | 1% | 8.4 | 8.7 | 3% | 3% | 12.1 | 12.7 | 5% | 5% | 9.1 | 8.4 | -8% | -8% | 2.7 | 2.8 | 1% | 1% | 4.3 | 4.5 | 5% | 5% |
| 27 | February | 3.3 | 3.5 | 7% | 7% | 7.1 | 7.9 | 10% | 10% | 10.4 | 11.7 | 12% | 12% | 7.8 | 7.8 | 0% | 0% | 2.5 | 2.5 | 2% | 2% | 4.0 | 4.1 | 4% | 4% |
| 27 | March | 3.2 | 3.2 | 0% | 0% | 7.1 | 7.7 | 9% | 9% | 10.3 | 11.2 | 9% | 9% | 7.5 | 7.1 | -5% | -5% | 2.3 | 2.3 | 0% | 0% | 3.7 | 4.2 | 15% | 15% |
| 27 | April | 17.8 | 17.4 | -2% | -2% | 39.2 | 39.7 | 1% | 1% | 47.0 | 47.3 | 1% | 1% | 33.0 | 40.2 | 22% | 22% | 10.9 | 8.9 | -18% | -18% | 20.9 | 20.5 | -2% | -2% |
| 27 | May | 71.2 | 71.4 | 0% | 0% | 155.5 | 156.7 | 1% | 1% | 188.9 | 189.7 | 0% | 0% | 129.5 | 130.5 | 1% | 1% | 48.7 | 42.8 | -12% | -12% | 81.2 | 80.9 | 0% | 0% |
| 27 | June | 57.5 | 58.8 | 2% | 2% | 122.4 | 126.9 | 4% | 4% | 153.4 | 158.4 | 3% | 3% | 112.3 | 114.7 | 2% | 2% | 38.3 | 33.9 | -11% | -9% | 64.6 | 64.6 | 0% | 0% |
| 27 | July | 6.9 | 6.7 | -3% | -1% | 14.0 | 14.4 | 3% | 1% | 20.9 | 20.7 | -1% | -1% | 15.6 | 13.8 | -12% | -6% | 3.8 | 3.8 | 1% | 0% | 6.6 | 7.1 | 8% | 2% |
| 27 | August | 5.8 | 5.7 | -1% | -1% | 11.7 | 11.7 | 0% | 0% | 17.6 | 17.1 | -3% | -3% | 13.3 | 11.7 | -12% | -12% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 27 | September | 4.9 | 5.0 | 2% | 2% | 9.9 | 10.2 | 3% | 3% | 15.0 | 15.1 | 1% | 1% | 11.6 | 10.6 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 27 | October | 5.6 | 5.3 | -6% | -6% | 11.3 | 11.0 | -3% | -3% | 16.8 | 16.1 | -4% | -4% | 13.6 | 13.1 | -3% | -3% | 3.0 | 2.9 | -4% | -4% | 5.3 | 5.2 | -1% | -1% |
| 27 | November | 4.5 | 4.5 | 0% | 0% | 9.1 | 9.6 | 5% | 5% | 13.8 | 14.3 | 3% | 3% | 10.8 | 10.1 | -6% | -6% | 2.6 | 2.6 | 1% | 1% | 4.5 | 4.8 | 6% | 6% |
| 27 | December | 4.0 | 3.9 | -2% | -2% | 8.3 | 8.5 | 3% | 3% | 12.7 | 12.9 | 1% | 1% | 9.7 | 9.0 | -8% | -8% | 2.4 | 2.5 | 2% | 2% | 4.0 | 4.3 | 5% | 5% |
| 28 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.0 | 6% | 6% | 11.6 | 12.1 | 4% | 4% | 8.7 | 8.2 | -7% | -7% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.2 | 11% | 11% |
| 28 | February | 2.9 | 3.1 | 10% | 10% | 6.2 | 7.2 | 16% | 16% | 9.6 | 11.1 | 16% | 16% | 7.2 | 7.6 | 5% | 5% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.8 | 8% | 8% |
| 28 | March | 2.9 | 2.8 | -1% | -1% | 6.4 | 6.5 | 2% | 2% | 9.7 | 10.1 | 4% | 4% | 7.4 | 6.9 | -6% | -6% | 1.9 | 1.9 | 0% | 0% | 3.3 | 3.4 | 3% | 3% |
| 28 | April | 3.4 | 3.2 | -4% | -2% | 7.3 | 7.3 | 0% | 0% | 10.8 | 11.2 | 3% | 1% | 8.3 | 9.3 | 11% | 6% | 2.1 | 2.0 | -5% | -1% | 3.8 | 3.8 | -1% | 0% |
| 28 | May | 36.5 | 35.6 | -2% | -2% | 80.7 | 80.0 | -1% | -1% | 96.0 | 95.1 | -1% | -1% | 64.8 | 71.6 | 11% | 10% | 23.5 | 19.7 | -16% | -10% | 42.1 | 41.4 | -2% | -1% |
| 28 | June | 74.7 | 77.6 | 4% | 4% | 161.7 | 168.4 | 4% | 4% | 199.1 | 206.3 | 4% | 4% | 142.4 | 147.2 | 3% | 3% | 51.3 | 45.0 | -12% | -12% | 86.5 | 86.2 | 0% | 0% |
| 28 | July | 6.6 | 6.3 | -4% | -2% | 13.0 | 13.6 | 5% | 2% | 19.5 | 19.5 | 0% | 0% | 14.5 | 13.1 | -10% | -5% | 3.3 | 3.4 | 2% | 0% | 5.9 | 6.8 | 15% | 4% |
| 28 | August | 5.6 | 5.5 | -1% | -1% | 11.1 | 11.1 | 0% | 0% | 16.8 | 16.3 | -3% | -3% | 12.9 | 11.5 | -11% | -11% | 3.1 | 3.1 | 1% | 1% | 5.1 | 5.1 | 0% | 0% |
| 28 | September | 5.3 | 5.2 | -2% | -2% | 10.5 | 10.6 | 1% | 1% | 15.8 | 15.6 | -1% | -1% | 12.5 | 11.9 | -5% | -5% | 3.0 | 3.0 | 1% | 1% | 5.0 | 5.0 | 0% | 0% |
| 28 | October | 9.0 | 8.4 | -7% | -7% | 18.5 | 18.0 | -3% | -3% | 25.5 | 24.3 | -5% | -5% | 21.3 | 23.1 | 8% | 8% | 3.7 | 3.1 | -16% | -16% | 8.8 | 8.7 | -1% | -1% |
| 28 | November | 5.2 | 5.1 | -2% | -2% | 10.6 | 10.8 | 2% | 2% | 15.5 | 15.7 | 1% | 1% | 12.0 | 11.2 | -7% | -7% | 3.1 | 3.1 | 1% | 1% | 5.1 | 5.3 | 3% | 3% |
| 28 | December | 4.6 | 4.6 | -1% | -1% | 9.6 | 10.0 | 5% | 5% | 14.2 | 14.6 | 3% | 3% | 10.8 | 9.8 | -10% | -10% | 2.9 | 3.0 | 1% | 1% | 4.7 | 5.1 | 10% | 10% |
| 29 | January | 4.1 | 4.1 | -1% | -1% | 8.6 | 8.8 | 3% | 3% | 12.8 | 13.2 | 2% | 2% | 9.7 | 8.9 | -9% | -9% | 2.6 | 2.7 | 1% | 1% | 4.2 | 4.5 | 6% | 6% |
| 29 | February | 3.6 | 3.8 | 4% | 4% | 7.6 | 8.2 | 8% | 8% | 11.3 | 12.4 | 10% | 10% | 8.6 | 9.1 | 5% | 5% | 2.5 | 2.6 | 1% | 1% | 4.1 | 4.1 | 0% | 0% |
| 29 | March | 10.1 | 9.3 | -8% | -8% | 21.8 | 21.2 | -3% | -3% | 28.4 | 27.5 | -3% | -3% | 22.2 | 26.3 | 19% | 19% | 4.8 | 3.8 | -20% | -20% | 10.9 | 10.8 | -1% | -1% |
| 29 | April | 28.5 | 28.4 | -1% | -1% | 61.7 | 62.9 | 2% | 2% | 73.4 | 74.8 | 2% | 2% | 49.7 | 54.2 | 9% | 9% | 19.1 | 16.9 | -12% | -12% | 32.7 | 32.5 | -1% | -1% |
| 29 | May | 17.1 | 16.1 | -6% | -2% | 36.2 | 35.4 | -2% | -1% | 45.4 | 43.9 | -3% | -1% | 32.7 | 33.1 | 1% | 1% | 10.1 | 9.2 | -9% | -2% | 18.1 | 18.0 | 0% | 0% |
| 29 | June | 7.8 | 7.5 | -4% | -1% | 16.7 | 16.7 | 0% | 0% | 23.0 | 22.8 | -1% | 0% | 17.5 | 17.6 | 1% | 0% | 4.6 | 4.5 | -3% | 0% | 8.5 | 8.5 | 1% | 0% |
| 29 | July | 6.1 | 5.8 | -4% | -2% | 12.7 | 12.6 | -1% | 0% | 18.2 | 17.8 | -2% | -1% | 13.4 | 12.2 | -9% | -4% | 3.9 | 4.0 | 1% | 0% | 6.3 | 6.3 | 0% | 0% |
| 29 | August | 5.1 | 5.2 | 0% | 0% | 10.8 | 10.9 | 0% | 0% | 15.7 | 15.7 | 0% | 0% | 11.8 | 10.7 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.4 | 5.3 | 0% | 0% |
| 29 | September | 4.4 | 4.6 | 5% | 5% | 9.3 | 9.7 | 4% | 4% | 13.6 | 14.3 | 5% | 5% | 10.4 | 9.7 | -6% | -6% | 3.0 | 3.1 | 1% | 1% | 4.8 | 4.7 | -1% | -1% |
| 29 | October | 8.8 | 8.3 | -5% | -5% | 18.7 | 18.3 | -2% | -2% | 24.9 | 24.5 | -2% | -2% | 20.1 | 22.6 | 12% | 12% | 4.1 | 3.4 | -17% | -17% | 9.2 | 9.1 | -1% | -1% |
| 29 | November | 5.1 | 5.0 | -3% | -3% | 10.8 | 11.3 | 5% | 5% | 15.3 | 16.0 | 5% | 5% | 11.6 | 11.1 | -4% | -4% | 3.3 | 3.3 | 1% | 1% | 5.5 | 6.0 | 8% | 8% |
| 29 | December | 4.6 | 4.5 | -2% | -2% | 9.8 | 10.0 | 2% | 2% | 13.9 | 14.3 | 3% | 3% | 10.4 | 9.6 | -8% | -8% | 3.1 | 3.1 | 0% | 0% | 5.0 | 5.2 | 4% | 4% |
| 30 | January | 4.0 | 4.0 | 0% | 0% | 8.7 | 9.0 | 3% | 3% | 12.4 | 13.1 | 5% | 5% | 9.3 | 8.7 | -7% | -7% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.7 | 6% | 6% |
| 30 | February | 3.3 | 3.6 | 11% | 11% | 7.1 | 8.0 | 11% | 11% | 10.3 | 11.8 | 15% | 15% | 7.7 | 8.0 | 5% | 5% | 2.5 | 2.6 | 1% | 1% | 4.1 | 4.1 | -1% | -1% |
| 30 | March | 3.3 | 3.3 | 0% | 0% | 7.3 | 7.5 | 3% | 3% | 10.5 | 11.1 | 6% | 6% | 7.7 | 7.5 | -4% | -4% | 2.3 | 2.4 | 1% | 1% | 3.8 | 4.0 | 4% | 4% |
| 30 | April | 14.5 | 14.0 | -3% | -3% | 31.8 | 32.2 | 1% | 1% | 38.8 | 39.2 | 1% | 1% | 27.8 | 34.7 | 25% | 25% | 8.4 | 6.8 | -19% | -19% | 16.8 | 16.7 | -1% | -1% |
| 30 | May | 33.3 | 32.3 | -3% | -3% | 72.0 | 71.3 | -1% | -1% | 86.1 | 85.2 | -1% | -1% | 56.9 | 59.0 | 4% | 3% | 21.8 | 19.3 | -11% | -7% | 37.0 | 36.7 | -1% | 0% |
| 30 | June | 31.0 | 31.1 | 0% | 0% | 66.5 | 68.1 | 2% | 1% | 82.2 | 82.9 | 1% | 0% | 58.4 | 60.6 | 4% | 3% | 20.6 | 18.5 | -10% | -4% | 35.1 | 34.9 | 0% | 0% |
| 30 | July | 6.5 | 6.2 | -4% | -2% | 13.7 | 13.7 | 0% | 0% | 19.6 | 19.3 | -2% | -1% | 14.5 | 13.0 | -10% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 6.9 | 4% | 1% |
| 30 | August | 5.5 | 5.4 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 16.7 | 16.6 | -1% | -1% | 12.5 | 11.2 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.6 | 0% | 0% |
| 30 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.0 | 4% | 4% | 14.4 | 14.9 | 3% | 3% | 11.0 | 10.2 | -8% | -8% | 3.0 | 3.1 | 0% | 0% | 4.9 | 4.9 | 0% | 0% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | October | 5.0 | 4.8 | -4% | -4% | 10.3 | 10.1 | -2% | -2% | 15.2 | 15.0 | -1% | -1% | 12.0 | 11.4 | -5% | -5% | 3.0 | 2.9 | -1% | -1% | 5.0 | 4.9 | 0% | 0% |
| 30 | November | 4.2 | 4.3 | 2% | 2% | 8.7 | 9.0 | 3% | 3% | 12.9 | 13.5 | 4% | 4% | 10.1 | 9.6 | -5% | -5% | 2.6 | 2.6 | 1% | 1% | 4.4 | 4.4 | -1% | -1% |
| 30 | December | 3.7 | 3.7 | 1% | 1% | 8.0 | 8.1 | 2% | 2% | 11.9 | 12.3 | 3% | 3% | 9.2 | 8.6 | -7% | -7% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.1 | 1% | 1% |
| 31 | January | 3.3 | 3.4 | 2% | 2% | 7.2 | 8.1 | 12% | 12% | 10.8 | 12.1 | 11% | 11% | 8.3 | 7.9 | -5% | -5% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.5 | 21% | 21% |
| 31 | February | 2.8 | 3.1 | 9% | 9% | 6.3 | 7.4 | 18% | 18% | 9.3 | 11.1 | 19% | 19% | 7.1 | 7.3 | 3% | 3% | 2.0 | 2.1 | 1% | 1% | 3.5 | 4.1 | 18% | 18% |
| 31 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.5 | 4% | 4% | 9.3 | 9.9 | 7% | 7% | 6.8 | 6.7 | -1% | -1% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.4 | 5% | 5% |
| 31 | April | 24.2 | 24.2 | 0% | 0% | 53.5 | 54.7 | 2% | 2% | 63.2 | 64.9 | 3% | 3% | 44.1 | 52.9 | 20% | 20% | 15.3 | 12.4 | -19% | -19% | 28.6 | 28.2 | -1% | -1% |
| 31 | May | 73.5 | 73.8 | 0% | 0% | 160.0 | 161.2 | 1% | 1% | 195.6 | 195.9 | 0% | 0% | 136.4 | 137.2 | 1% | 1% | 49.5 | 43.4 | -12% | -12% | 83.3 | 82.9 | 0% | 0% |
| 31 | June | 41.6 | 42.1 | 1% | 1% | 87.9 | 91.0 | 3% | 3% | 110.8 | 113.9 | 3% | 2% | 81.9 | 83.9 | 2% | 2% | 26.8 | 23.9 | -11% | -6% | 45.9 | 46.3 | 1% | 1% |
| 31 | July | 6.8 | 6.6 | -3% | -1% | 13.7 | 14.1 | 2% | 1% | 20.4 | 20.2 | -1% | 0% | 15.3 | 13.6 | -11% | -6% | 3.7 | 3.7 | 1% | 0% | 6.5 | 7.0 | 8% | 2% |
| 31 | August | 5.7 | 5.6 | -2% | -2% | 11.6 | 11.5 | 0% | 0% | 17.4 | 16.8 | -3% | -3% | 13.1 | 11.6 | -11% | -11% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 31 | September | 4.8 | 4.9 | 3% | 3% | 9.7 | 10.0 | 3% | 3% | 14.8 | 14.9 | 1% | 1% | 11.5 | 10.5 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 31 | October | 4.4 | 4.4 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.8 | 13.6 | -2% | -2% | 10.7 | 9.6 | -10% | -10% | 2.6 | 2.6 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 31 | November | 3.8 | 3.9 | 3% | 3% | 7.8 | 8.0 | 3% | 3% | 12.2 | 12.5 | 2% | 2% | 9.5 | 8.9 | -6% | -6% | 2.3 | 2.4 | 1% | 1% | 3.9 | 3.8 | -1% | -1% |
| 31 | December | 3.5 | 3.5 | 0% | 0% | 7.4 | 7.4 | 1% | 1% | 11.5 | 11.6 | 1% | 1% | 8.8 | 8.1 | -8% | -8% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.7 | 2% | 2% |
| 32 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 7.0 | 5% | 5% | 10.5 | 10.9 | 4% | 4% | 8.0 | 7.5 | -6% | -6% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.7 | 9% | 9% |
| 32 | February | 2.5 | 2.8 | 10% | 10% | 5.5 | 6.7 | 21% | 21% | 8.7 | 10.4 | 20% | 20% | 6.5 | 6.9 | 6% | 6% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.7 | 16% | 16% |
| 32 | March | 2.5 | 2.6 | 1% | 1% | 5.7 | 5.8 | 3% | 3% | 8.9 | 9.3 | 5% | 5% | 6.5 | 6.4 | -2% | -2% | 1.7 | 1.7 | 1% | 1% | 3.0 | 3.1 | 2% | 2% |
| 32 | April | 8.2 | 7.9 | -4% | -4% | 17.8 | 18.3 | 2% | 2% | 23.8 | 24.2 | 2% | 2% | 19.3 | 25.8 | 33% | 33% | 3.4 | 2.2 | -35% | -17% | 9.2 | 9.2 | 1% | 1% |
| 32 | May | 41.7 | 40.6 | -3% | -3% | 91.4 | 90.5 | -1% | -1% | 108.3 | 107.1 | -1% | -1% | 71.4 | 74.9 | 5% | 5% | 27.8 | 24.1 | -13% | -10% | 47.6 | 47.0 | -1% | -1% |
| 32 | June | 39.3 | 40.2 | 2% | 2% | 84.6 | 87.7 | 4% | 3% | 104.2 | 107.6 | 3% | 2% | 75.3 | 78.2 | 4% | 4% | 26.2 | 23.3 | -11% | -6% | 44.8 | 44.9 | 0% | 0% |
| 32 | July | 6.3 | 6.0 | -4% | -2% | 12.9 | 13.0 | 1% | 0% | 19.0 | 18.7 | -1% | -1% | 14.1 | 12.6 | -10% | -5% | 3.5 | 3.5 | 1% | 0% | 6.1 | 6.5 | 6% | 2% |
| 32 | August | 5.4 | 5.2 | -2% | -2% | 10.9 | 10.8 | -1% | -1% | 16.3 | 15.9 | -3% | -3% | 12.4 | 11.0 | -11% | -11% | 3.2 | 3.2 | 1% | 1% | 5.1 | 5.2 | 0% | 0% |
| 32 | September | 4.5 | 4.7 | 3% | 3% | 9.2 | 9.5 | 4% | 4% | 14.0 | 14.3 | 2% | 2% | 10.8 | 10.0 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.5 | 0% | 0% |
| 32 | October | 4.6 | 4.4 | -4% | -4% | 9.3 | 9.1 | -2% | -2% | 14.1 | 13.8 | -2% | -2% | 11.2 | 10.3 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.4 | -1% | -1% |
| 32 | November | 3.9 | 4.0 | 2% | 2% | 8.0 | 8.6 | 8% | 8% | 12.2 | 13.0 | 7% | 7% | 9.6 | 9.2 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.4 | 9% | 9% |
| 32 | December | 3.5 | 3.5 | 0% | 0% | 7.4 | 7.9 | 6% | 6% | 11.4 | 12.0 | 5% | 5% | 8.8 | 8.2 | -6% | -6% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.1 | 11% | 11% |
| 33 | January | 3.1 | 3.1 | 1% | 1% | 6.7 | 7.1 | 5% | 5% | 10.3 | 10.9 | 6% | 6% | 8.0 | 7.6 | -5% | -5% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.7 | 8% | 8% |
| 33 | February | 2.5 | 2.8 | 11% | 11% | 5.6 | 6.7 | 19% | 19% | 8.6 | 10.3 | 20% | 20% | 6.5 | 7.0 | 7% | 7% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.6 | 13% | 13% |
| 33 | March | 2.6 | 2.6 | 1% | 1% | 5.8 | 6.5 | 13% | 13% | 8.8 | 9.9 | 12% | 12% | 6.5 | 6.4 | -1% | -1% | 1.8 | 1.8 | 1% | 1% | 3.1 | 3.7 | 22% | 22% |
| 33 | April | 29.3 | 29.6 | 1% | 1% | 65.2 | 66.5 | 2% | 2% | 77.1 | 79.0 | 2% | 2% | 53.0 | 62.3 | 18% | 18% | 19.1 | 15.7 | -18% | -18% | 35.2 | 34.2 | -3% | -3% |
| 33 | May | 72.7 | 73.0 | 0% | 0% | 158.0 | 159.3 | 1% | 1% | 193.5 | 194.2 | 0% | 0% | 136.5 | 137.3 | 1% | 1% | 48.6 | 42.6 | -12% | -12% | 82.1 | 81.9 | 0% | 0% |
| 33 | June | 91.8 | 94.9 | 3% | 3% | 195.9 | 203.9 | 4% | 4% | 245.8 | 254.4 | 3% | 3% | 181.2 | 183.7 | 1% | 1% | 61.8 | 54.3 | -12% | -12% | 103.7 | 103.6 | 0% | 0% |
| 33 | July | 6.9 | 6.8 | -2% | -1% | 13.7 | 14.5 | 6% | 2% | 20.9 | 20.9 | 0% | 0% | 15.9 | 14.0 | -12% | -6% | 3.6 | 3.6 | 1% | 0% | 6.3 | 7.2 | 14% | 4% |
| 33 | August | 5.7 | 5.8 | 1% | 1% | 11.4 | 11.5 | 1% | 1% | 17.4 | 16.9 | -3% | -3% | 13.4 | 11.8 | -12% | -12% | 3.2 | 3.2 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 33 | September | 4.8 | 5.0 | 3% | 3% | 9.6 | 9.9 | 3% | 3% | 14.8 | 14.9 | 0% | 0% | 11.6 | 10.6 | -9% | -9% | 2.8 | 2.9 | 1% | 1% | 4.6 | 4.6 | -1% | -1% |
| 33 | October | 6.8 | 6.4 | -6% | -6% | 13.8 | 13.5 | -3% | -3% | 20.1 | 19.2 | -5% | -5% | 16.7 | 17.3 | 3% | 3% | 3.2 | 2.8 | -10% | -10% | 6.5 | 6.4 | -2% | -2% |
| 33 | November | 4.7 | 4.7 | 0% | 0% | 9.4 | 9.9 | 6% | 6% | 14.3 | 14.7 | 3% | 3% | 11.1 | 10.4 | -7% | -7% | 2.7 | 2.7 | 1% | 1% | 4.6 | 4.9 | 7% | 7% |
| 33 | December | 4.2 | 4.1 | -3% | -3% | 8.5 | 8.5 | 0% | 0% | 13.2 | 13.0 | -1% | -1% | 10.0 | 9.1 | -9% | -9% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.2 | 2% | 2% |
| 34 | January | 3.7 | 3.6 | -2% | -2% | 7.6 | 7.8 | 2% | 2% | 11.9 | 12.1 | 2% | 2% | 9.0 | 8.3 | -7% | -7% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 6% | 6% |
| 34 | February | 2.9 | 3.2 | 9% | 9% | 6.3 | 7.3 | 17% | 17% | 9.8 | 11.3 | 15% | 15% | 7.4 | 7.7 | 5% | 5% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.9 | 10% | 10% |
| 34 | March | 2.9 | 2.9 | -1% | -1% | 6.4 | 6.6 | 3% | 3% | 9.9 | 10.3 | 4% | 4% | 7.4 | 7.1 | -4% | -4% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.4 | 5% | 5% |
| 34 | April | 14.2 | 13.8 | -3% | -3% | 31.6 | 31.7 | 0% | 0% | 39.3 | 39.1 | -1% | -1% | 29.1 | 36.5 | 26% | 26% | 8.0 | 6.3 | -22% | -22% | 16.8 | 16.3 | -3% | -3% |
| 34 | May | 32.5 | 31.4 | -3% | -3% | 70.2 | 69.4 | -1% | -1% | 84.2 | 83.0 | -1% | -1% | 56.5 | 58.8 | 4% | 3% | 21.0 | 18.6 | -12% | -7% | 36.0 | 35.7 | -1% | -1% |
| 34 | June | 15.8 | 15.3 | -3% | -1% | 33.2 | 33.7 | 2% | 0% | 41.9 | 41.8 | 0% | 0% | 30.8 | 32.4 | 5% | 2% | 9.3 | 8.4 | -9% | -2% | 17.0 | 17.2 | 1% | 0% |
| 34 | July | 6.0 | 5.7 | -5% | -2% | 12.4 | 12.3 | -1% | 0% | 18.2 | 17.6 | -3% | -1% | 13.3 | 12.0 | -10% | -4% | 3.6 | 3.6 | 1% | 0% | 6.0 | 6.2 | 2% | 1% |
| 34 | August | 5.0 | 5.0 | -1% | -1% | 10.5 | 10.5 | 0% | 0% | 15.6 | 15.4 | -1% | -1% | 11.6 | 10.4 | -10% | -10% | 3.2 | 3.3 | 0% | 0% | 5.1 | 5.1 | 0% | 0% |
| 34 | September | 4.6 | 4.7 | 2% | 2% | 9.5 | 9.7 | 3% | 3% | 14.1 | 14.5 | 3% | 3% | 10.9 | 10.3 | -5% | -5% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.7 | -1% | -1% |
| 34 | October | 7.2 | 6.9 | -5% | -5% | 15.1 | 14.8 | -2% | -2% | 21.0 | 20.5 | -2% | -2% | 17.0 | 18.5 | 9% | 9% | 3.4 | 3.0 | -13% | -13% | 7.3 | 7.2 | -2% | -2% |
| 34 | November | 4.5 | 4.6 | 1% | 1% | 9.6 | 9.9 | 3% | 3% | 13.9 | 14.4 | 4% | 4% | 10.6 | 10.1 | -5% | -5% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.0 | 1% | 1% |
| 34 | December | 4.0 | 4.0 | 0% | 0% | 8.6 | 9.0 | 4% | 4% | 12.6 | 13.2 | 5% | 5% | 9.6 | 8.9 | -7% | -7% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.6 | 6% | 6% |
| 35 | January | 3.5 | 3.6 | 1% | 1% | 7.7 | 8.2 | 6% | 6% | 11.3 | 12.2 | 7% | 7% | 8.7 | 8.1 | -6% | -6% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.4 | 10% | 10% |
| 35 | February | 3.0 | 3.2 | 7% | 7% | 6.6 | 7.9 | 20% | 20% | 9.8 | 11.7 | 19% | 19% | 7.3 | 7.5 | 3% | 3% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.4 | 21% | 21% |
| 35 | March | 5.5 | 5.1 | -8% | -8% | 11.4 | 11.5 | 1% | 1% | 15.9 | 16.1 | 2% | 2% | 13.1 | 15.2 | 16% | 16% | 2.7 | 2.3 | -15% | -15% | 5.4 | 5.8 | 8% | 8% |
| 35 | April | 39.1 | 39.5 | 1% | 1% | 86.6 | 88.9 | 3% | 3% | 102.7 | 105.3 | 3% | 3% | 67.6 | 75.1 | 11% | 11% | 27.0 | 23.2 | -14% | -14% | 46.9 | 46.4 | -1% | -1% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | May | 67.3 | 67.5 | 0% | 0% | 145.6 | 146.7 | 1% | 1% | 179.3 | 179.9 | 0% | 0% | 128.4 | 128.4 | 0% | 0% | 44.9 | 39.6 | -12% | -12% | 75.4 | 75.1 | 0% | 0% |
| 35 | June | 32.6 | 32.5 | 0% | 0% | 68.4 | 70.2 | 3% | 2% | 87.0 | 88.8 | 2% | 1% | 64.6 | 66.0 | 2% | 2% | 20.7 | 18.6 | -10% | -4% | 35.4 | 35.6 | 1% | 0% |
| 35 | July | 6.9 | 6.7 | -3% | -1% | 14.3 | 14.5 | 2% | 1% | 21.0 | 20.8 | -1% | -1% | 15.6 | 14.1 | -10% | -5% | 4.0 | 4.0 | 1% | 0% | 6.8 | 7.2 | 6% | 2% |
| 35 | August | 5.8 | 5.7 | -1% | -1% | 11.9 | 11.9 | 0% | 0% | 17.7 | 17.3 | -2% | -2% | 13.3 | 11.9 | -11% | -11% | 3.5 | 3.5 | 0% | 0% | 5.7 | 5.7 | 0% | 0% |
| 35 | September | 28.5 | 28.3 | -1% | -1% | 61.2 | 62.4 | 2% | 2% | 76.4 | 77.5 | 1% | 1% | 56.1 | 60.3 | 7% | 7% | 18.1 | 15.9 | -13% | -13% | 32.2 | 32.0 | 0% | 0% |
| 35 | October | 13.6 | 12.9 | -6% | -6% | 28.3 | 28.1 | 0% | 0% | 37.2 | 36.7 | -1% | -1% | 28.6 | 28.5 | 0% | 0% | 7.3 | 6.7 | -8% | -8% | 13.8 | 14.2 | 3% | 3% |
| 35 | November | 6.1 | 6.1 | 0% | 0% | 12.7 | 13.5 | 6% | 6% | 18.8 | 19.3 | 3% | 3% | 13.7 | 12.7 | -7% | -7% | 3.9 | 4.0 | 1% | 1% | 6.4 | 6.9 | 7% | 7% |
| 35 | December | 5.4 | 5.4 | 0% | 0% | 11.2 | 11.4 | 2% | 2% | 16.7 | 16.7 | 0% | 0% | 12.3 | 11.0 | -10% | -10% | 3.5 | 3.5 | 0% | 0% | 5.5 | 5.6 | 3% | 3% |
| 36 | January | 4.7 | 4.8 | 0% | 0% | 9.9 | 10.2 | 4% | 4% | 14.9 | 15.2 | 2% | 2% | 11.2 | 10.1 | -10% | -10% | 3.1 | 3.1 | 0% | 0% | 4.8 | 5.1 | 6% | 6% |
| 36 | February | 3.8 | 4.3 | 12% | 12% | 8.0 | 9.1 | 14% | 14% | 12.2 | 13.8 | 13% | 13% | 9.3 | 9.3 | 1% | 1% | 2.7 | 2.8 | 1% | 1% | 4.4 | 4.5 | 4% | 4% |
| 36 | March | 4.2 | 4.1 | -4% | -4% | 8.8 | 8.7 | -2% | -2% | 13.4 | 13.3 | 0% | 0% | 10.4 | 9.8 | -5% | -5% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.3 | -1% | -1% |
| 36 | April | 17.8 | 17.4 | -2% | -2% | 39.0 | 39.5 | 1% | 1% | 47.7 | 48.0 | 1% | 1% | 35.2 | 41.4 | 18% | 18% | 10.7 | 8.9 | -16% | -16% | 20.7 | 20.3 | -2% | -2% |
| 36 | May | 60.4 | 60.2 | 0% | 0% | 131.6 | 132.3 | 1% | 1% | 161.9 | 161.8 | 0% | 0% | 112.2 | 112.9 | 1% | 1% | 41.0 | 36.2 | -12% | -12% | 68.4 | 68.3 | 0% | 0% |
| 36 | June | 37.8 | 38.3 | 1% | 1% | 80.2 | 83.1 | 4% | 2% | 101.4 | 104.7 | 3% | 2% | 74.5 | 76.6 | 3% | 3% | 24.7 | 22.1 | -11% | -5% | 42.0 | 42.4 | 1% | 1% |
| 36 | July | 7.0 | 6.8 | -3% | -1% | 14.4 | 14.7 | 2% | 1% | 21.3 | 21.2 | -1% | 0% | 15.8 | 14.3 | -10% | -5% | 4.0 | 4.1 | 1% | 0% | 6.9 | 7.4 | 6% | 2% |
| 36 | August | 5.9 | 5.8 | -1% | -1% | 12.2 | 12.1 | -1% | -1% | 18.1 | 17.6 | -3% | -3% | 13.5 | 12.1 | -10% | -10% | 3.6 | 3.6 | 1% | 1% | 5.9 | 5.8 | -2% | -2% |
| 36 | September | 5.8 | 5.9 | 1% | 1% | 11.9 | 12.1 | 2% | 2% | 17.5 | 17.6 | 1% | 1% | 13.6 | 13.3 | -2% | -2% | 3.4 | 3.4 | -1% | -1% | 5.9 | 5.8 | -1% | -1% |
| 36 | October | 7.1 | 6.7 | -6% | -6% | 14.6 | 14.2 | -3% | -3% | 20.7 | 19.9 | -4% | -4% | 16.5 | 16.7 | 1% | 1% | 3.6 | 3.3 | -6% | -6% | 6.9 | 6.9 | -1% | -1% |
| 36 | November | 5.2 | 5.1 | -1% | -1% | 10.6 | 11.1 | 5% | 5% | 15.6 | 16.2 | 3% | 3% | 12.1 | 11.5 | -5% | -5% | 3.1 | 3.2 | 1% | 1% | 5.3 | 5.6 | 6% | 6% |
| 36 | December | 4.6 | 4.6 | -1% | -1% | 9.6 | 10.1 | 5% | 5% | 14.2 | 14.8 | 4% | 4% | 10.9 | 10.1 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.7 | 5.2 | 11% | 11% |
| 37 | January | 4.1 | 4.0 | -1% | -1% | 8.6 | 8.7 | 2% | 2% | 12.8 | 13.2 | 3% | 3% | 9.8 | 9.2 | -6% | -6% | 2.6 | 2.6 | 1% | 1% | 4.2 | 4.4 | 4% | 4% |
| 37 | February | 3.3 | 3.6 | 10% | 10% | 7.0 | 8.0 | 14% | 14% | 10.6 | 12.3 | 15% | 15% | 8.1 | 8.5 | 6% | 6% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.2 | 6% | 6% |
| 37 | March | 3.3 | 3.3 | 0% | 0% | 7.2 | 7.2 | 1% | 1% | 10.8 | 11.2 | 3% | 3% | 8.1 | 7.9 | -3% | -3% | 2.2 | 2.2 | 0% | 0% | 3.7 | 3.7 | 0% | 0% |
| 37 | April | 29.7 | 29.9 | 1% | 1% | 65.5 | 67.2 | 3% | 3% | 78.2 | 80.2 | 3% | 3% | 53.7 | 62.2 | 16% | 16% | 19.5 | 16.4 | -16% | -16% | 35.2 | 34.7 | -1% | -1% |
| 37 | May | 59.6 | 59.5 | 0% | 0% | 129.4 | 130.5 | 1% | 1% | 159.1 | 159.2 | 0% | 0% | 112.0 | 112.7 | 1% | 1% | 39.7 | 35.0 | -12% | -12% | 67.1 | 67.2 | 0% | 0% |
| 37 | June | 37.5 | 37.8 | 1% | 1% | 79.2 | 81.7 | 3% | 2% | 100.0 | 102.9 | 3% | 2% | 73.8 | 75.9 | 3% | 3% | 24.1 | 21.6 | -11% | -5% | 41.3 | 41.6 | 1% | 0% |
| 37 | July | 6.9 | 6.7 | -2% | -1% | 14.1 | 14.2 | 1% | 0% | 20.9 | 20.6 | -2% | -1% | 15.5 | 14.0 | -10% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.0 | 3% | 1% |
| 37 | August | 5.8 | 5.7 | -1% | -1% | 11.8 | 11.8 | 0% | 0% | 17.7 | 17.2 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.7 | 5.7 | 0% | 0% |
| 37 | September | 4.9 | 5.0 | 2% | 2% | 10.0 | 10.3 | 3% | 3% | 15.2 | 15.3 | 1% | 1% | 11.6 | 10.8 | -7% | -7% | 3.0 | 3.1 | 0% | 0% | 4.9 | 4.9 | 0% | 0% |
| 37 | October | 4.9 | 4.7 | -3% | -3% | 9.9 | 9.8 | -2% | -2% | 15.1 | 14.7 | -2% | -2% | 11.8 | 10.9 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | -1% | -1% |
| 37 | November | 4.2 | 4.2 | 0% | 0% | 8.6 | 9.4 | 9% | 9% | 13.1 | 14.0 | 7% | 7% | 10.2 | 9.8 | -4% | -4% | 2.5 | 2.6 | 1% | 1% | 4.3 | 4.8 | 14% | 14% |
| 37 | December | 3.8 | 3.8 | 0% | 0% | 8.0 | 8.6 | 8% | 8% | 12.3 | 13.0 | 6% | 6% | 9.4 | 8.9 | -6% | -6% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.6 | 16% | 16% |
| 38 | January | 3.4 | 3.4 | 0% | 0% | 7.2 | 7.9 | 9% | 9% | 11.2 | 12.0 | 7% | 7% | 8.5 | 8.1 | -4% | -4% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.2 | 16% | 16% |
| 38 | February | 2.7 | 3.0 | 11% | 11% | 6.0 | 6.9 | 14% | 14% | 9.3 | 10.7 | 16% | 16% | 7.0 | 7.6 | 8% | 8% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.6 | 5% | 5% |
| 38 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.5 | 5% | 5% | 9.5 | 10.0 | 6% | 6% | 7.0 | 7.0 | -1% | -1% | 1.9 | 1.9 | 0% | 0% | 3.2 | 3.4 | 7% | 7% |
| 38 | April | 56.9 | 58.7 | 3% | 3% | 126.1 | 130.8 | 4% | 4% | 151.2 | 155.8 | 3% | 3% | 103.0 | 113.4 | 10% | 10% | 39.6 | 33.6 | -15% | -15% | 68.4 | 67.8 | -1% | -1% |
| 38 | May | 56.9 | 56.8 | 0% | 0% | 121.8 | 122.9 | 1% | 1% | 151.2 | 152.3 | 1% | 1% | 110.2 | 110.8 | 1% | 1% | 36.5 | 32.1 | -12% | -12% | 62.3 | 62.6 | 0% | 0% |
| 38 | June | 66.6 | 68.4 | 3% | 3% | 141.7 | 147.1 | 4% | 4% | 178.8 | 184.1 | 3% | 3% | 131.7 | 134.1 | 2% | 2% | 44.2 | 39.1 | -12% | -11% | 74.7 | 74.7 | 0% | 0% |
| 38 | July | 11.6 | 11.0 | -5% | -4% | 23.4 | 23.4 | 0% | 0% | 32.5 | 31.6 | -3% | -2% | 26.0 | 25.2 | -3% | -3% | 5.5 | 5.1 | -7% | -3% | 11.0 | 11.4 | 4% | 2% |
| 38 | August | 6.6 | 6.5 | -2% | -2% | 13.5 | 13.5 | 0% | 0% | 20.0 | 19.4 | -3% | -3% | 15.0 | 13.5 | -10% | -10% | 3.9 | 3.9 | 0% | 0% | 6.4 | 6.5 | 1% | 1% |
| 38 | September | 5.5 | 5.5 | 1% | 1% | 11.1 | 11.4 | 3% | 3% | 16.7 | 16.8 | 1% | 1% | 12.6 | 11.7 | -7% | -7% | 3.4 | 3.5 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 38 | October | 9.1 | 8.5 | -6% | -6% | 19.0 | 18.6 | -2% | -2% | 26.3 | 25.1 | -4% | -4% | 21.7 | 23.0 | 6% | 6% | 4.2 | 3.7 | -13% | -13% | 9.2 | 9.2 | -1% | -1% |
| 38 | November | 5.4 | 5.3 | -1% | -1% | 11.1 | 11.5 | 3% | 3% | 16.4 | 16.7 | 2% | 2% | 12.3 | 11.5 | -7% | -7% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.7 | 4% | 4% |
| 38 | December | 4.8 | 4.8 | -1% | -1% | 10.1 | 10.1 | 0% | 0% | 15.0 | 14.9 | -1% | -1% | 11.2 | 10.2 | -9% | -9% | 3.2 | 3.2 | 0% | 0% | 4.9 | 4.9 | 0% | 0% |
| 39 | January | 4.3 | 4.2 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.5 | 13.5 | 0% | 0% | 10.1 | 9.3 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.4 | 4.4 | 0% | 0% |
| 39 | February | 3.5 | 3.8 | 6% | 6% | 7.5 | 8.2 | 9% | 9% | 11.5 | 12.6 | 10% | 10% | 8.5 | 8.6 | 0% | 0% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.2 | 4% | 4% |
| 39 | March | 3.3 | 3.4 | 0% | 0% | 7.3 | 7.4 | 2% | 2% | 11.2 | 11.5 | 3% | 3% | 8.3 | 7.9 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.7 | 3.8 | 3% | 3% |
| 39 | April | 9.9 | 9.5 | -4% | -4% | 21.6 | 21.7 | 1% | 1% | 28.1 | 28.2 | 0% | 0% | 21.6 | 27.2 | 26% | 26% | 4.9 | 3.8 | -22% | -16% | 11.1 | 11.0 | -2% | -2% |
| 39 | May | 17.2 | 16.2 | -6% | -3% | 37.0 | 36.0 | -3% | -1% | 44.6 | 43.0 | -4% | -1% | 31.2 | 33.8 | 9% | 4% | 10.3 | 9.1 | -12% | -3% | 18.7 | 18.4 | -1% | 0% |
| 39 | June | 26.5 | 26.3 | -1% | 0% | 57.0 | 58.2 | 2% | 1% | 69.5 | 71.0 | 2% | 1% | 46.8 | 49.7 | 6% | 4% | 17.7 | 15.9 | -10% | -4% | 30.0 | 30.0 | 0% | 0% |
| 39 | July | 6.1 | 5.8 | -5% | -2% | 12.9 | 13.0 | 0% | 0% | 18.7 | 18.4 | -2% | -1% | 13.3 | 12.1 | -9% | -4% | 3.8 | 3.8 | 1% | 0% | 6.3 | 6.7 | 5% | 2% |
| 39 | August | 5.2 | 5.2 | 0% | 0% | 10.9 | 10.9 | 0% | 0% | 15.9 | 15.8 | 0% | 0% | 11.6 | 10.5 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 39 | September | 4.5 | 4.7 | 4% | 4% | 9.5 | 9.8 | 3% | 3% | 14.0 | 14.5 | 3% | 3% | 10.6 | 10.1 | -5% | -5% | 3.0 | 3.1 | 0% | 0% | 4.8 | 4.8 | -1% | -1% |
| 39 | October | 4.3 | 4.2 | -2% | -2% | 9.1 | 9.0 | -1% | -1% | 13.4 | 13.5 | 0% | 0% | 10.6 | 9.7 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.4 | -1% | -1% |
| 39 | November | 3.6 | 3.8 | 4% | 4% | 7.8 | 8.4 | 7% | 7% | 11.6 | 12.6 | 8% | 8% | 9.0 | 8.7 | -2% | -2% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.3 | 7% | 7% |

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| 39 | December | 3.3 | 3.4 | 1% | 1% | 7.3 | 7.4 | 2% | 2% | 10.9 | 11.3 | 4% | 4% | 8.4 | 8.1 | -4% | -4% | 2.3 | 2.3 | 1% | 1% | 3.8 | 3.8 | 1% | 1% |
| 40 | January | 3.0 | 3.1 | 1% | 1% | 6.8 | 7.0 | 2% | 2% | 10.1 | 10.6 | 5% | 5% | 7.5 | 7.4 | -1% | -1% | 2.1 | 2.1 | 0% | 0% | 3.6 | 3.6 | 2% | 2% |
| 40 | February | 2.5 | 2.8 | 11% | 11% | 5.7 | 6.8 | 20% | 20% | 8.4 | 10.2 | 21% | 21% | 6.2 | 6.9 | 11% | 11% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.8 | 15% | 15% |
| 40 | March | 2.6 | 2.6 | 1% | 1% | 5.9 | 6.3 | 7% | 7% | 8.7 | 9.5 | 9% | 9% | 6.2 | 6.3 | 2% | 2% | 1.8 | 1.9 | 1% | 1% | 3.1 | 3.5 | 11% | 11% |
| 40 | April | 4.0 | 3.7 | -6% | -4% | 8.6 | 8.7 | 1% | 0% | 12.1 | 12.5 | 3% | 2% | 9.6 | 12.0 | 25% | 15% | 2.2 | 1.9 | -14% | -5% | 4.4 | 4.4 | 1% | 0% |
| 40 | May | 72.9 | 73.3 | 0% | 0% | 161.3 | 162.3 | 1% | 1% | 193.0 | 193.7 | 0% | 0% | 131.3 | 137.1 | 4% | 4% | 49.3 | 42.3 | -14% | -14% | 84.8 | 84.0 | -1% | -1% |
| 40 | June | 56.5 | 57.8 | 2% | 2% | 120.2 | 125.0 | 4% | 4% | 149.5 | 154.7 | 4% | 4% | 109.1 | 112.7 | 3% | 3% | 37.1 | 32.7 | -12% | -9% | 63.2 | 63.7 | 1% | 1% |
| 40 | July | 6.6 | 6.3 | -4% | -2% | 13.1 | 13.3 | 2% | 1% | 19.5 | 19.1 | -2% | -1% | 14.8 | 13.3 | -10% | -5% | 3.4 | 3.4 | 2% | 0% | 6.0 | 6.4 | 8% | 2% |
| 40 | August | 5.6 | 5.5 | -2% | -2% | 11.1 | 11.0 | 0% | 0% | 16.8 | 16.2 | -4% | -4% | 12.9 | 11.6 | -10% | -10% | 3.1 | 3.1 | 1% | 1% | 5.1 | 5.1 | 0% | 0% |
| 40 | September | 5.2 | 5.1 | -2% | -2% | 10.4 | 10.4 | 1% | 1% | 15.7 | 15.4 | -2% | -2% | 12.5 | 11.8 | -5% | -5% | 3.0 | 3.0 | 1% | 1% | 4.9 | 4.9 | 0% | 0% |
| 40 | October | 4.8 | 4.7 | -4% | -4% | 9.7 | 9.5 | -2% | -2% | 14.8 | 14.2 | -4% | -4% | 11.7 | 10.8 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.5 | 4.5 | -1% | -1% |
| 40 | November | 4.1 | 4.2 | 0% | 0% | 8.3 | 9.0 | 8% | 8% | 12.8 | 13.4 | 5% | 5% | 10.0 | 9.6 | -4% | -4% | 2.4 | 2.5 | 1% | 1% | 4.1 | 4.5 | 11% | 11% |
| 40 | December | 3.8 | 3.7 | -2% | -2% | 7.8 | 8.2 | 4% | 4% | 12.1 | 12.4 | 2% | 2% | 9.3 | 8.8 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.2 | 10% | 10% |
| 41 | January | 3.4 | 3.3 | -1% | -1% | 7.1 | 7.3 | 4% | 4% | 11.0 | 11.3 | 3% | 3% | 8.4 | 8.0 | -4% | -4% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.8 | 7% | 7% |
| 41 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.9 | 18% | 18% | 9.1 | 10.6 | 17% | 17% | 6.9 | 7.5 | 8% | 8% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.7 | 12% | 12% |
| 41 | March | 2.7 | 2.7 | -1% | -1% | 6.0 | 6.3 | 4% | 4% | 9.3 | 9.8 | 5% | 5% | 6.9 | 6.9 | -1% | -1% | 1.8 | 1.8 | 1% | 1% | 3.2 | 3.3 | 6% | 6% |
| 41 | April | 30.7 | 31.1 | 1% | 1% | 68.2 | 70.0 | 3% | 3% | 81.1 | 83.2 | 3% | 3% | 55.8 | 65.3 | 17% | 17% | 20.1 | 16.6 | -17% | -17% | 36.8 | 36.1 | -2% | -2% |
| 41 | May | 63.7 | 63.7 | 0% | 0% | 138.3 | 139.3 | 1% | 1% | 169.7 | 169.7 | 0% | 0% | 120.0 | 120.9 | 1% | 1% | 42.3 | 37.1 | -12% | -12% | 71.7 | 71.6 | 0% | 0% |
| 41 | June | 36.5 | 36.7 | 0% | 0% | 76.8 | 79.2 | 3% | 2% | 97.2 | 99.5 | 2% | 2% | 72.1 | 74.1 | 3% | 2% | 23.2 | 20.7 | -11% | -5% | 40.0 | 40.2 | 1% | 0% |
| 41 | July | 6.6 | 6.4 | -3% | -1% | 13.5 | 13.6 | 1% | 0% | 20.1 | 19.7 | -2% | -1% | 15.0 | 13.6 | -10% | -5% | 3.6 | 3.7 | 1% | 0% | 6.4 | 6.6 | 4% | 1% |
| 41 | August | 5.6 | 5.5 | -1% | -1% | 11.3 | 11.3 | 0% | 0% | 17.1 | 16.6 | -3% | -3% | 12.9 | 11.6 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 41 | September | 8.6 | 8.4 | -3% | -3% | 18.0 | 18.2 | 1% | 1% | 25.0 | 24.7 | -1% | -1% | 20.8 | 22.8 | 10% | 10% | 4.0 | 3.4 | -14% | -14% | 9.0 | 8.9 | -1% | -1% |
| 41 | October | 18.5 | 17.4 | -6% | -6% | 39.1 | 38.5 | -1% | -1% | 48.5 | 47.7 | -2% | -2% | 36.3 | 37.7 | 4% | 4% | 10.9 | 9.7 | -11% | -11% | 19.5 | 19.7 | 1% | 1% |
| 41 | November | 5.8 | 5.8 | -1% | -1% | 12.2 | 13.4 | 10% | 10% | 17.9 | 19.1 | 6% | 6% | 13.1 | 12.3 | -7% | -7% | 3.7 | 3.8 | 1% | 1% | 6.1 | 7.1 | 17% | 17% |
| 41 | December | 5.2 | 5.1 | -2% | -2% | 10.7 | 10.9 | 2% | 2% | 16.0 | 16.1 | 0% | 0% | 11.7 | 10.6 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.2 | 5.5 | 4% | 4% |
| 42 | January | 4.5 | 4.5 | 1% | 1% | 9.4 | 9.7 | 3% | 3% | 14.3 | 14.5 | 2% | 2% | 10.7 | 9.7 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 4.6 | 4.8 | 4% | 4% |
| 42 | February | 3.6 | 4.0 | 11% | 11% | 7.6 | 8.6 | 13% | 13% | 11.6 | 13.2 | 13% | 13% | 8.8 | 9.0 | 2% | 2% | 2.6 | 2.7 | 1% | 1% | 4.2 | 4.3 | 3% | 3% |
| 42 | March | 6.0 | 5.7 | -6% | -6% | 12.5 | 12.4 | -1% | -1% | 17.9 | 17.8 | -1% | -1% | 14.8 | 16.2 | 10% | 10% | 3.0 | 2.7 | -12% | -12% | 6.0 | 6.1 | 2% | 2% |
| 42 | April | 26.0 | 25.8 | -1% | -1% | 56.9 | 58.0 | 2% | 2% | 68.4 | 69.5 | 2% | 2% | 46.9 | 52.8 | 13% | 13% | 16.9 | 14.6 | -14% | -14% | 30.4 | 30.0 | -1% | -1% |
| 42 | May | 74.1 | 74.2 | 0% | 0% | 161.1 | 162.1 | 1% | 1% | 199.2 | 199.6 | 0% | 0% | 140.8 | 140.5 | 0% | 0% | 50.4 | 44.5 | -12% | -12% | 83.8 | 83.4 | -1% | -1% |
| 42 | June | 39.1 | 39.4 | 1% | 1% | 82.6 | 85.6 | 4% | 3% | 105.2 | 108.0 | 3% | 2% | 77.6 | 79.1 | 2% | 2% | 25.4 | 22.8 | -10% | -5% | 43.2 | 43.7 | 1% | 1% |
| 42 | July | 7.1 | 6.9 | -3% | -1% | 14.6 | 14.8 | 1% | 1% | 21.6 | 21.4 | -1% | -1% | 16.1 | 14.5 | -10% | -5% | 4.1 | 4.1 | 1% | 0% | 7.0 | 7.3 | 5% | 2% |
| 42 | August | 5.9 | 5.8 | -1% | -1% | 12.2 | 12.1 | 0% | 0% | 18.1 | 17.7 | -2% | -2% | 13.6 | 12.2 | -10% | -10% | 3.6 | 3.6 | 1% | 1% | 5.9 | 5.8 | 0% | 0% |
| 42 | September | 5.8 | 5.7 | -2% | -2% | 11.9 | 12.0 | 1% | 1% | 17.6 | 17.6 | 0% | 0% | 13.7 | 13.4 | -2% | -2% | 3.4 | 3.4 | -1% | -1% | 5.9 | 5.8 | -1% | -1% |
| 42 | October | 17.9 | 16.8 | -6% | -6% | 38.3 | 37.6 | -2% | -2% | 48.0 | 46.7 | -3% | -3% | 37.1 | 39.8 | 7% | 7% | 10.0 | 8.7 | -13% | -13% | 19.3 | 19.3 | 0% | 0% |
| 42 | November | 5.9 | 5.8 | -2% | -2% | 12.3 | 12.9 | 5% | 5% | 18.1 | 18.7 | 3% | 3% | 13.3 | 12.5 | -6% | -6% | 3.7 | 3.7 | 1% | 1% | 6.1 | 6.6 | 8% | 8% |
| 42 | December | 5.2 | 5.2 | -1% | -1% | 10.9 | 10.9 | 1% | 1% | 16.2 | 16.2 | 0% | 0% | 11.9 | 10.9 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.3 | 5.4 | 1% | 1% |
| 43 | January | 4.6 | 4.6 | 0% | 0% | 9.6 | 10.0 | 4% | 4% | 14.5 | 14.9 | 3% | 3% | 10.9 | 10.0 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 4.7 | 5.0 | 7% | 7% |
| 43 | February | 3.8 | 4.1 | 6% | 6% | 8.1 | 9.0 | 12% | 12% | 12.3 | 13.6 | 11% | 11% | 9.3 | 9.2 | -1% | -1% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.6 | 9% | 9% |
| 43 | March | 3.6 | 3.6 | 1% | 1% | 7.8 | 8.1 | 5% | 5% | 11.9 | 12.4 | 5% | 5% | 8.9 | 8.5 | -5% | -5% | 2.4 | 2.5 | 1% | 1% | 3.9 | 4.2 | 7% | 7% |
| 43 | April | 23.4 | 23.4 | 0% | 0% | 51.5 | 52.9 | 3% | 3% | 61.9 | 63.6 | 3% | 3% | 43.6 | 50.9 | 17% | 17% | 14.9 | 12.5 | -16% | -16% | 27.5 | 27.3 | 0% | 0% |
| 43 | May | 73.1 | 73.3 | 0% | 0% | 159.0 | 160.3 | 1% | 1% | 196.1 | 196.7 | 0% | 0% | 137.6 | 137.9 | 0% | 0% | 49.6 | 43.6 | -12% | -12% | 82.8 | 82.6 | 0% | 0% |
| 43 | June | 66.1 | 67.8 | 3% | 3% | 140.7 | 146.2 | 4% | 4% | 177.4 | 183.2 | 3% | 3% | 130.3 | 132.6 | 2% | 2% | 44.2 | 39.1 | -12% | -10% | 74.3 | 74.5 | 0% | 0% |
| 43 | July | 7.2 | 7.0 | -2% | -1% | 14.4 | 15.1 | 5% | 2% | 21.6 | 21.7 | 0% | 0% | 16.2 | 14.5 | -11% | -6% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.5 | 12% | 4% |
| 43 | August | 5.9 | 5.9 | 0% | 0% | 12.0 | 12.0 | 0% | 0% | 18.1 | 17.6 | -3% | -3% | 13.6 | 12.2 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.7 | 5.7 | -1% | -1% |
| 43 | September | 5.0 | 5.1 | 2% | 2% | 10.1 | 10.4 | 3% | 3% | 15.4 | 15.5 | 1% | 1% | 11.9 | 11.1 | -7% | -7% | 3.1 | 3.1 | 0% | 0% | 4.9 | 4.9 | 0% | 0% |
| 43 | October | 5.0 | 4.8 | -4% | -4% | 10.0 | 9.8 | -2% | -2% | 15.3 | 14.8 | -3% | -3% | 12.0 | 11.1 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | -1% | -1% |
| 43 | November | 4.3 | 4.3 | 1% | 1% | 8.6 | 9.2 | 7% | 7% | 13.3 | 13.9 | 5% | 5% | 10.4 | 10.0 | -4% | -4% | 2.5 | 2.6 | 1% | 1% | 4.2 | 4.6 | 8% | 8% |
| 43 | December | 3.9 | 3.8 | -2% | -2% | 8.0 | 8.4 | 5% | 5% | 12.5 | 12.9 | 3% | 3% | 9.5 | 9.0 | -5% | -5% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.3 | 10% | 10% |
| 44 | January | 3.5 | 3.4 | -1% | -1% | 7.3 | 7.3 | 0% | 0% | 11.4 | 11.5 | 1% | 1% | 8.6 | 8.3 | -4% | -4% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.6 | 0% | 0% |
| 44 | February | 2.8 | 3.1 | 10% | 10% | 6.0 | 7.5 | 24% | 24% | 9.5 | 11.4 | 21% | 21% | 7.1 | 7.7 | 8% | 8% | 2.0 | 2.0 | 1% | 1% | 3.4 | 4.2 | 23% | 23% |
| 44 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.2 | 1% | 1% | 9.6 | 9.9 | 3% | 3% | 7.1 | 7.1 | -1% | -1% | 1.9 | 1.9 | 0% | 0% | 3.2 | 3.2 | 0% | 0% |
| 44 | April | 29.4 | 29.7 | 1% | 1% | 65.2 | 66.5 | 2% | 2% | 77.7 | 79.4 | 2% | 2% | 53.7 | 63.0 | 17% | 17% | 19.1 | 15.8 | -18% | -18% | 35.0 | 34.2 | -2% | -2% |
| 44 | May | 65.3 | 65.4 | 0% | 0% | 141.9 | 142.9 | 1% | 1% | 174.4 | 174.4 | 0% | 0% | 122.9 | 123.8 | 1% | 1% | 43.5 | 38.1 | -12% | -12% | 73.6 | 73.5 | 0% | 0% |
| 44 | June | 14.7 | 14.3 | -2% | -1% | 30.0 | 30.8 | 3% | 1% | 39.2 | 39.9 | 2% | 0% | 30.4 | 31.7 | 4% | 2% | 7.8 | 7.1 | -9% | -1% | 14.9 | 15.3 | 3% | 1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44 | July | 6.3 | 6.1 | -3% | -1% | 12.9 | 12.8 | -1% | 0% | 19.2 | 18.6 | -3% | -1% | 14.3 | 13.0 | -9% | -4% | 3.6 | 3.6 | 1% | 0% | 6.1 | 6.2 | 2% | 0% |
| 44 | August | 5.4 | 5.3 | -2% | -2% | 11.0 | 10.9 | -1% | -1% | 16.6 | 16.1 | -3% | -3% | 12.6 | 11.4 | -9% | -9% | 3.2 | 3.3 | 1% | 1% | 5.2 | 5.2 | 1% | 1% |
| 44 | September | 4.9 | 4.8 | 0% | 0% | 9.8 | 10.0 | 2% | 2% | 14.9 | 15.0 | 0% | 0% | 11.5 | 10.9 | -5% | -5% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 44 | October | 6.1 | 5.7 | -6% | -6% | 12.5 | 12.1 | -3% | -3% | 18.2 | 17.5 | -4% | -4% | 14.8 | 15.2 | 3% | 3% | 3.1 | 2.9 | -6% | -6% | 5.9 | 5.8 | -2% | -2% |
| 44 | November | 5.3 | 5.0 | -5% | -5% | 10.8 | 11.0 | 2% | 2% | 15.8 | 16.0 | 1% | 1% | 12.4 | 12.5 | 1% | 1% | 3.0 | 3.0 | -1% | -1% | 5.3 | 5.6 | 4% | 4% |
| 44 | December | 4.6 | 4.4 | -3% | -3% | 9.4 | 9.5 | 1% | 1% | 14.0 | 14.1 | 0% | 0% | 10.7 | 10.2 | -5% | -5% | 2.7 | 2.7 | 1% | 1% | 4.6 | 4.8 | 4% | 4% |
| 45 | January | 3.9 | 3.8 | -2% | -2% | 8.3 | 8.8 | 6% | 6% | 12.4 | 13.0 | 5% | 5% | 9.4 | 9.0 | -4% | -4% | 2.5 | 2.5 | 1% | 1% | 4.2 | 4.7 | 13% | 13% |
| 45 | February | 3.2 | 3.5 | 10% | 10% | 6.8 | 7.8 | 14% | 14% | 10.2 | 11.8 | 15% | 15% | 7.7 | 8.3 | 8% | 8% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 6% | 6% |
| 45 | March | 3.2 | 3.1 | 0% | 0% | 7.0 | 7.4 | 7% | 7% | 10.4 | 11.2 | 7% | 7% | 7.8 | 7.7 | -1% | -1% | 2.1 | 2.2 | 1% | 1% | 3.6 | 4.0 | 12% | 12% |
| 45 | April | 16.1 | 15.7 | -3% | -3% | 35.7 | 36.1 | 1% | 1% | 43.5 | 43.6 | 0% | 0% | 31.4 | 39.1 | 25% | 25% | 9.4 | 7.5 | -20% | -20% | 19.0 | 18.7 | -2% | -2% |
| 45 | May | 38.8 | 37.7 | -3% | -3% | 84.0 | 83.3 | -1% | -1% | 101.1 | 100.0 | -1% | -1% | 67.5 | 69.7 | 3% | 3% | 25.6 | 22.5 | -12% | -8% | 43.3 | 43.0 | -1% | 0% |
| 45 | June | 66.5 | 68.9 | 4% | 4% | 143.7 | 149.6 | 4% | 4% | 178.1 | 184.8 | 4% | 4% | 128.9 | 132.7 | 3% | 3% | 45.7 | 40.4 | -12% | -11% | 76.9 | 76.6 | 0% | 0% |
| 45 | July | 6.9 | 6.7 | -3% | -1% | 14.0 | 14.4 | 3% | 1% | 20.7 | 20.7 | 0% | 0% | 15.4 | 14.0 | -9% | -5% | 3.8 | 3.8 | 1% | 0% | 6.6 | 7.2 | 9% | 3% |
| 45 | August | 5.8 | 5.7 | -1% | -1% | 11.8 | 11.7 | 0% | 0% | 17.6 | 17.1 | -3% | -3% | 13.3 | 12.0 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.6 | 5.6 | 0% | 0% |
| 45 | September | 5.4 | 5.3 | -2% | -2% | 11.0 | 11.1 | 1% | 1% | 16.5 | 16.4 | -1% | -1% | 12.9 | 12.4 | -4% | -4% | 3.2 | 3.3 | 1% | 1% | 5.4 | 5.4 | -1% | -1% |
| 45 | October | 22.7 | 21.5 | -5% | -5% | 48.9 | 48.1 | -2% | -2% | 60.5 | 59.1 | -2% | -2% | 45.4 | 48.6 | 7% | 7% | 13.3 | 11.5 | -13% | -13% | 24.8 | 24.7 | 0% | 0% |
| 45 | November | 6.0 | 5.9 | -1% | -1% | 12.3 | 13.1 | 7% | 7% | 18.1 | 18.8 | 4% | 4% | 13.5 | 12.7 | -5% | -5% | 3.6 | 3.6 | 1% | 1% | 6.1 | 6.7 | 9% | 9% |
| 45 | December | 5.3 | 5.2 | -2% | -2% | 10.9 | 11.2 | 2% | 2% | 16.3 | 16.3 | 0% | 0% | 12.1 | 11.0 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.6 | 5% | 5% |
| 46 | January | 4.6 | 4.7 | 0% | 0% | 9.6 | 10.2 | 6% | 6% | 14.5 | 15.1 | 4% | 4% | 11.0 | 10.1 | -8% | -8% | 2.9 | 3.0 | 0% | 0% | 4.7 | 5.2 | 11% | 11% |
| 46 | February | 3.7 | 4.2 | 11% | 11% | 7.8 | 9.1 | 16% | 16% | 11.9 | 13.6 | 15% | 15% | 9.0 | 9.3 | 3% | 3% | 2.6 | 2.6 | 1% | 1% | 4.2 | 4.6 | 9% | 9% |
| 46 | March | 3.7 | 3.7 | 1% | 1% | 7.8 | 8.1 | 4% | 4% | 12.0 | 12.4 | 4% | 4% | 9.1 | 8.6 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.2 | 7% | 7% |
| 46 | April | 34.0 | 34.5 | 1% | 1% | 75.0 | 76.8 | 2% | 2% | 90.4 | 92.2 | 2% | 2% | 61.9 | 69.6 | 12% | 12% | 23.0 | 19.5 | -15% | -15% | 40.3 | 39.5 | -2% | -2% |
| 46 | May | 57.7 | 57.6 | 0% | 0% | 124.9 | 125.7 | 1% | 1% | 154.6 | 154.8 | 0% | 0% | 110.7 | 111.1 | 0% | 0% | 38.3 | 33.8 | -12% | -12% | 64.6 | 64.5 | 0% | 0% |
| 46 | June | 30.7 | 30.6 | 0% | 0% | 64.5 | 66.3 | 3% | 2% | 82.2 | 84.2 | 2% | 1% | 61.0 | 62.7 | 3% | 2% | 19.4 | 17.4 | -10% | -4% | 33.4 | 33.7 | 1% | 0% |
| 46 | July | 6.8 | 6.6 | -3% | -1% | 14.0 | 14.1 | 0% | 0% | 20.8 | 20.5 | -1% | -1% | 15.4 | 14.0 | -9% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 6.9 | 3% | 1% |
| 46 | August | 5.7 | 5.6 | -1% | -1% | 11.7 | 11.6 | -1% | -1% | 17.5 | 17.1 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.6 | -1% | -1% |
| 46 | September | 4.8 | 5.0 | 2% | 2% | 9.9 | 10.2 | 3% | 3% | 15.0 | 15.2 | 1% | 1% | 11.5 | 10.7 | -6% | -6% | 3.0 | 3.1 | 0% | 0% | 4.9 | 4.9 | -1% | -1% |
| 46 | October | 21.7 | 20.7 | -5% | -5% | 46.9 | 46.4 | -1% | -1% | 58.1 | 56.9 | -2% | -2% | 43.2 | 46.7 | 8% | 8% | 12.8 | 11.0 | -14% | -14% | 24.0 | 23.9 | 0% | 0% |
| 46 | November | 5.6 | 5.6 | -1% | -1% | 11.6 | 12.4 | 7% | 7% | 17.3 | 18.1 | 5% | 5% | 12.7 | 11.9 | -6% | -6% | 3.4 | 3.4 | 1% | 1% | 5.8 | 6.4 | 11% | 11% |
| 46 | December | 5.0 | 5.0 | 0% | 0% | 10.3 | 11.0 | 7% | 7% | 15.5 | 16.1 | 4% | 4% | 11.5 | 10.5 | -9% | -9% | 3.2 | 3.2 | 1% | 1% | 5.0 | 5.7 | 13% | 13% |
| 47 | January | 4.4 | 4.4 | 2% | 2% | 9.1 | 9.5 | 5% | 5% | 13.9 | 14.3 | 3% | 3% | 10.5 | 9.6 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.7 | 7% | 7% |
| 47 | February | 3.6 | 3.9 | 8% | 8% | 7.6 | 8.4 | 11% | 11% | 11.6 | 12.9 | 11% | 11% | 8.9 | 8.9 | 0% | 0% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.2 | 5% | 5% |
| 47 | March | 3.4 | 3.5 | 2% | 2% | 7.4 | 7.6 | 4% | 4% | 11.3 | 11.8 | 5% | 5% | 8.6 | 8.2 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.7 | 3.9 | 4% | 4% |
| 47 | April | 29.7 | 30.0 | 1% | 1% | 65.5 | 66.9 | 2% | 2% | 78.7 | 80.3 | 2% | 2% | 54.3 | 62.0 | 14% | 14% | 19.7 | 16.6 | -16% | -16% | 35.1 | 34.3 | -2% | -2% |
| 47 | May | 67.9 | 68.1 | 0% | 0% | 147.5 | 148.8 | 1% | 1% | 182.1 | 182.8 | 0% | 0% | 129.5 | 129.8 | 0% | 0% | 45.6 | 40.1 | -12% | -12% | 76.6 | 76.5 | 0% | 0% |
| 47 | June | 58.2 | 59.5 | 2% | 2% | 123.8 | 128.6 | 4% | 4% | 156.3 | 161.3 | 3% | 3% | 114.9 | 117.1 | 2% | 2% | 38.6 | 34.2 | -11% | -9% | 65.2 | 65.6 | 1% | 1% |
| 47 | July | 7.0 | 6.8 | -2% | -1% | 14.1 | 14.7 | 4% | 1% | 21.3 | 21.2 | 0% | 0% | 15.8 | 14.3 | -9% | -5% | 3.8 | 3.8 | 1% | 0% | 6.6 | 7.3 | 10% | 3% |
| 47 | August | 5.7 | 5.7 | -1% | -1% | 11.7 | 11.7 | 0% | 0% | 17.7 | 17.2 | -3% | -3% | 13.3 | 12.0 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 47 | September | 4.9 | 5.0 | 2% | 2% | 9.9 | 10.2 | 3% | 3% | 15.1 | 15.3 | 1% | 1% | 11.7 | 10.9 | -7% | -7% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 47 | October | 4.4 | 4.4 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 14.0 | 13.8 | -1% | -1% | 10.9 | 10.0 | -9% | -9% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 47 | November | 3.9 | 4.0 | 2% | 2% | 7.9 | 8.1 | 3% | 3% | 12.4 | 12.7 | 2% | 2% | 9.6 | 9.2 | -4% | -4% | 2.3 | 2.4 | 1% | 1% | 3.9 | 3.9 | -1% | -1% |
| 47 | December | 3.6 | 3.6 | 0% | 0% | 7.4 | 7.7 | 3% | 3% | 11.7 | 12.0 | 2% | 2% | 8.9 | 8.4 | -5% | -5% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.8 | 5% | 5% |
| 48 | January | 3.3 | 3.2 | -2% | -2% | 7.0 | 7.7 | 10% | 10% | 11.0 | 11.8 | 7% | 7% | 8.4 | 8.2 | -3% | -3% | 2.0 | 2.1 | 1% | 1% | 3.5 | 4.2 | 21% | 21% |
| 48 | February | 2.6 | 2.9 | 9% | 9% | 5.8 | 6.8 | 18% | 18% | 9.0 | 10.6 | 17% | 17% | 6.8 | 7.5 | 9% | 9% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.6 | 12% | 12% |
| 48 | March | 2.6 | 2.6 | 0% | 0% | 5.9 | 6.2 | 5% | 5% | 9.2 | 9.8 | 6% | 6% | 6.8 | 6.8 | 1% | 1% | 1.8 | 1.8 | 2% | 2% | 3.1 | 3.3 | 8% | 8% |
| 48 | April | 11.2 | 10.8 | -3% | -3% | 24.7 | 25.0 | 1% | 1% | 31.5 | 31.7 | 1% | 1% | 24.0 | 31.7 | 32% | 32% | 5.4 | 3.9 | -27% | -22% | 12.9 | 12.8 | -1% | -1% |
| 48 | May | 59.7 | 59.2 | -1% | -1% | 130.7 | 131.0 | 0% | 0% | 156.9 | 156.6 | 0% | 0% | 106.7 | 109.0 | 2% | 2% | 40.5 | 35.4 | -13% | -13% | 68.2 | 67.9 | 0% | 0% |
| 48 | June | 69.6 | 71.8 | 3% | 3% | 149.2 | 155.2 | 4% | 4% | 186.1 | 193.2 | 4% | 4% | 136.0 | 139.5 | 3% | 3% | 47.0 | 41.4 | -12% | -11% | 79.2 | 79.1 | 0% | 0% |
| 48 | July | 6.7 | 6.5 | -3% | -1% | 13.5 | 13.8 | 2% | 1% | 20.3 | 19.9 | -2% | -1% | 15.3 | 13.7 | -10% | -5% | 3.6 | 3.6 | 2% | 0% | 6.2 | 6.7 | 7% | 2% |
| 48 | August | 5.6 | 5.6 | -1% | -1% | 11.3 | 11.2 | 0% | 0% | 17.1 | 16.6 | -3% | -3% | 13.0 | 11.8 | -10% | -10% | 3.2 | 3.2 | 1% | 1% | 5.3 | 5.2 | 0% | 0% |
| 48 | September | 4.8 | 4.9 | 3% | 3% | 9.5 | 9.9 | 3% | 3% | 14.6 | 14.8 | 1% | 1% | 11.4 | 10.7 | -7% | -7% | 2.8 | 2.9 | 1% | 1% | 4.6 | 4.6 | 0% | 0% |
| 48 | October | 4.3 | 4.3 | -1% | -1% | 8.7 | 8.7 | 0% | 0% | 13.6 | 13.3 | -2% | -2% | 10.7 | 9.8 | -8% | -8% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.1 | -1% | -1% |
| 48 | November | 4.1 | 4.0 | -1% | -1% | 8.2 | 8.5 | 4% | 4% | 12.7 | 13.0 | 2% | 2% | 9.9 | 9.7 | -2% | -2% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.1 | 4% | 4% |
| 48 | December | 3.7 | 3.6 | -2% | -2% | 7.6 | 7.7 | 2% | 2% | 11.8 | 12.0 | 1% | 1% | 9.1 | 8.7 | -5% | -5% | 2.2 | 2.2 | 0% | 0% | 3.7 | 3.8 | 5% | 5% |
| 49 | January | 3.2 | 3.2 | -1% | -1% | 6.8 | 7.5 | 11% | 11% | 10.7 | 11.5 | 8% | 8% | 8.2 | 8.0 | -3% | -3% | 2.0 | 2.0 | 1% | 1% | 3.4 | 4.1 | 22% | 22% |

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| 49 | February | 2.6 | 2.8 | 9% | 9% | 5.7 | 6.6 | 17% | 17% | 8.9 | 10.4 | 17% | 17% | 6.7 | 7.3 | 9% | 9% | 1.9 | 1.9 | 0% | 0% | 3.2 | 3.6 | 11% | 11% |
| 49 | March | 2.6 | 2.6 | 0% | 0% | 5.8 | 5.9 | 2% | 2% | 9.0 | 9.4 | 4% | 4% | 6.7 | 6.7 | 1% | 1% | 1.7 | 1.8 | 1% | 1% | 3.0 | 3.1 | 3% | 3% |
| 49 | April | 22.8 | 22.8 | 0% | 0% | 50.3 | 51.4 | 2% | 2% | 59.9 | 61.3 | 2% | 2% | 42.8 | 52.0 | 21% | 21% | 14.1 | 11.3 | -20% | -20% | 26.8 | 26.3 | -2% | -2% |
| 49 | May | 61.8 | 61.7 | 0% | 0% | 134.5 | 135.1 | 0% | 0% | 164.1 | 163.8 | 0% | 0% | 114.0 | 115.3 | 1% | 1% | 41.4 | 36.3 | -12% | -12% | 69.9 | 69.5 | 0% | 0% |
| 49 | June | 61.9 | 63.5 | 3% | 3% | 132.0 | 137.3 | 4% | 4% | 165.6 | 171.4 | 4% | 4% | 121.5 | 124.4 | 2% | 2% | 41.3 | 36.4 | -12% | -10% | 69.7 | 70.1 | 0% | 0% |
| 49 | July | 6.7 | 6.5 | -2% | -1% | 13.4 | 13.8 | 3% | 1% | 20.3 | 20.1 | -1% | -1% | 15.3 | 13.7 | -10% | -5% | 3.6 | 3.6 | 1% | 0% | 6.2 | 6.8 | 8% | 2% |
| 49 | August | 5.6 | 5.5 | -2% | -2% | 11.3 | 11.2 | -1% | -1% | 17.1 | 16.5 | -3% | -3% | 13.0 | 11.7 | -10% | -10% | 3.2 | 3.2 | 1% | 1% | 5.2 | 5.2 | 0% | 0% |
| 49 | September | 4.7 | 4.8 | 2% | 2% | 9.5 | 9.8 | 3% | 3% | 14.6 | 14.7 | 1% | 1% | 11.4 | 10.6 | -6% | -6% | 2.8 | 2.9 | 1% | 1% | 4.6 | 4.6 | 0% | 0% |
| 49 | October | 4.3 | 4.3 | 0% | 0% | 8.7 | 8.6 | 0% | 0% | 13.5 | 13.3 | -2% | -2% | 10.7 | 9.7 | -9% | -9% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.0 | -1% | -1% |
| 49 | November | 3.9 | 3.9 | 1% | 1% | 7.8 | 8.0 | 3% | 3% | 12.3 | 12.5 | 2% | 2% | 9.6 | 9.3 | -3% | -3% | 2.3 | 2.4 | 1% | 1% | 3.8 | 3.8 | 0% | 0% |
| 49 | December | 3.6 | 3.5 | -1% | -1% | 7.3 | 7.4 | 1% | 1% | 11.5 | 11.6 | 0% | 0% | 8.8 | 8.4 | -5% | -5% | 2.1 | 2.1 | 1% | 1% | 3.6 | 3.6 | 2% | 2% |
| 50 | January | 3.1 | 3.1 | -1% | -1% | 6.6 | 6.6 | 1% | 1% | 10.4 | 10.6 | 2% | 2% | 8.0 | 7.8 | -3% | -3% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.3 | 1% | 1% |
| 50 | February | 2.5 | 2.7 | 10% | 10% | 5.5 | 6.3 | 14% | 14% | 8.6 | 9.9 | 15% | 15% | 6.6 | 7.2 | 9% | 9% | 1.8 | 1.9 | 1% | 1% | 3.1 | 3.3 | 6% | 6% |
| 50 | March | 2.5 | 2.5 | 1% | 1% | 5.6 | 6.0 | 8% | 8% | 8.8 | 9.5 | 8% | 8% | 6.5 | 6.6 | 2% | 2% | 1.7 | 1.7 | 1% | 1% | 3.0 | 3.3 | 12% | 12% |
| 50 | April | 11.4 | 11.0 | -3% | -3% | 25.3 | 26.0 | 3% | 3% | 32.2 | 32.7 | 2% | 2% | 24.4 | 32.4 | 33% | 33% | 5.6 | 4.0 | -28% | -23% | 13.3 | 13.4 | 1% | 1% |
| 50 | May | 39.5 | 38.3 | -3% | -3% | 86.0 | 85.2 | -1% | -1% | 102.3 | 101.2 | -1% | -1% | 68.4 | 71.2 | 4% | 4% | 26.0 | 22.7 | -13% | -9% | 44.5 | 44.2 | -1% | -1% |
| 50 | June | 34.4 | 34.9 | 1% | 1% | 73.7 | 76.0 | 3% | 2% | 91.2 | 93.1 | 2% | 1% | 66.1 | 68.9 | 4% | 4% | 22.6 | 20.2 | -11% | -5% | 38.9 | 38.8 | 0% | 0% |
| 50 | July | 6.2 | 5.9 | -5% | -2% | 12.8 | 12.9 | 1% | 0% | 18.9 | 18.6 | -2% | -1% | 14.0 | 12.8 | -8% | -4% | 3.5 | 3.5 | 1% | 0% | 6.1 | 6.4 | 5% | 2% |
| 50 | August | 5.3 | 5.2 | -2% | -2% | 10.7 | 10.7 | 0% | 0% | 16.1 | 15.8 | -2% | -2% | 12.2 | 11.1 | -9% | -9% | 3.1 | 3.2 | 1% | 1% | 5.1 | 5.1 | 1% | 1% |
| 50 | September | 4.8 | 4.8 | -1% | -1% | 9.8 | 10.0 | 2% | 2% | 14.8 | 14.9 | 1% | 1% | 11.5 | 11.1 | -4% | -4% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 50 | October | 7.2 | 6.8 | -6% | -6% | 14.8 | 14.4 | -3% | -3% | 20.8 | 22.1 | 6% | 6% | 17.1 | 18.3 | 7% | 7% | 3.3 | 2.9 | -12% | -12% | 7.1 | 7.0 | -2% | -2% |
| 50 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 10.4 | 9% | 9% | 14.1 | 15.1 | 7% | 7% | 11.0 | 10.6 | -4% | -4% | 2.8 | 2.8 | 1% | 1% | 4.8 | 5.4 | 12% | 12% |
| 50 | December | 4.1 | 4.1 | -1% | -1% | 8.6 | 9.4 | 9% | 9% | 12.8 | 13.8 | 8% | 8% | 9.9 | 9.3 | -6% | -6% | 2.6 | 2.6 | 1% | 1% | 4.3 | 5.1 | 18% | 18% |
| 51 | January | 3.6 | 3.6 | 0% | 0% | 7.7 | 8.3 | 8% | 8% | 11.5 | 12.4 | 8% | 8% | 8.9 | 8.5 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.4 | 14% | 14% |
| 51 | February | 3.0 | 3.2 | 8% | 8% | 6.6 | 7.4 | 12% | 12% | 9.8 | 11.2 | 14% | 14% | 7.5 | 7.9 | 4% | 4% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.9 | 7% | 7% |
| 51 | March | 2.9 | 2.9 | 0% | 0% | 6.5 | 6.8 | 5% | 5% | 9.7 | 10.4 | 8% | 8% | 7.3 | 7.3 | 0% | 0% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.6 | 8% | 8% |
| 51 | April | 34.5 | 34.9 | 1% | 1% | 76.3 | 78.2 | 2% | 2% | 90.7 | 93.0 | 3% | 3% | 61.3 | 70.4 | 15% | 15% | 23.5 | 19.7 | -16% | -16% | 41.1 | 40.4 | -2% | -2% |
| 51 | May | 102.5 | 103.5 | 1% | 1% | 221.9 | 224.3 | 1% | 1% | 273.8 | 275.4 | 1% | 1% | 196.6 | 195.8 | 0% | 0% | 68.7 | 60.2 | -12% | -12% | 115.1 | 114.9 | 0% | 0% |
| 51 | June | 58.5 | 59.6 | 2% | 2% | 123.8 | 128.5 | 4% | 4% | 156.7 | 160.8 | 3% | 3% | 115.9 | 117.8 | 2% | 2% | 38.4 | 34.0 | -12% | -9% | 64.9 | 65.4 | 1% | 1% |
| 51 | July | 7.0 | 6.9 | -1% | -1% | 13.9 | 14.4 | 4% | 1% | 21.1 | 20.9 | -1% | -1% | 16.0 | 14.3 | -11% | -6% | 3.7 | 3.7 | 1% | 0% | 6.4 | 7.0 | 9% | 3% |
| 51 | August | 5.8 | 5.7 | 0% | 0% | 11.6 | 11.6 | 0% | 0% | 17.6 | 17.0 | -3% | -3% | 13.4 | 12.1 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 51 | September | 4.9 | 5.0 | 3% | 3% | 9.7 | 10.0 | 3% | 3% | 15.0 | 15.1 | 1% | 1% | 11.7 | 10.9 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 51 | October | 19.1 | 18.1 | -5% | -5% | 41.1 | 40.5 | -2% | -2% | 51.3 | 49.8 | -3% | -3% | 39.5 | 42.9 | 8% | 8% | 10.8 | 9.3 | -14% | -14% | 20.8 | 20.8 | 0% | 0% |
| 51 | November | 5.5 | 5.5 | -1% | -1% | 11.3 | 11.9 | 5% | 5% | 17.0 | 17.5 | 3% | 3% | 12.5 | 11.8 | -6% | -6% | 3.3 | 3.3 | 1% | 1% | 5.5 | 6.0 | 8% | 8% |
| 51 | December | 4.9 | 4.8 | -1% | -1% | 10.0 | 10.2 | 2% | 2% | 15.3 | 15.2 | -1% | -1% | 11.3 | 10.3 | -9% | -9% | 3.0 | 3.1 | 0% | 0% | 4.8 | 5.0 | 4% | 4% |
| 52 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.1 | 3% | 3% | 13.8 | 13.8 | 1% | 1% | 10.3 | 9.5 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.5 | 5% | 5% |
| 52 | February | 3.4 | 3.8 | 10% | 10% | 7.2 | 8.4 | 17% | 17% | 11.2 | 12.8 | 15% | 15% | 8.5 | 8.8 | 4% | 4% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.3 | 11% | 11% |
| 52 | March | 3.4 | 3.4 | 1% | 1% | 7.2 | 7.6 | 6% | 6% | 11.3 | 11.8 | 5% | 5% | 8.5 | 8.1 | -5% | -5% | 2.2 | 2.2 | 1% | 1% | 3.6 | 4.0 | 10% | 10% |
| 52 | April | 17.5 | 17.2 | -2% | -2% | 38.4 | 38.9 | 1% | 1% | 46.9 | 47.1 | 0% | 0% | 34.4 | 41.4 | 20% | 20% | 10.4 | 8.5 | -18% | -18% | 20.4 | 19.9 | -2% | -2% |
| 52 | May | 81.4 | 81.8 | 1% | 1% | 177.4 | 179.0 | 1% | 1% | 217.9 | 218.7 | 0% | 0% | 151.9 | 152.5 | 0% | 0% | 55.5 | 48.7 | -12% | -12% | 92.5 | 92.2 | 0% | 0% |
| 52 | June | 33.6 | 33.6 | 0% | 0% | 70.5 | 72.8 | 3% | 2% | 90.0 | 91.8 | 2% | 1% | 66.5 | 68.3 | 3% | 2% | 21.3 | 19.1 | -11% | -5% | 36.5 | 37.0 | 1% | 1% |
| 52 | July | 6.7 | 6.5 | -3% | -1% | 13.6 | 13.8 | 1% | 1% | 20.5 | 20.2 | -1% | -1% | 15.2 | 13.8 | -9% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 6.8 | 6% | 2% |
| 52 | August | 5.6 | 5.5 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.8 | -2% | -2% | 13.0 | 11.8 | -10% | -10% | 3.3 | 3.4 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 52 | September | 4.7 | 4.9 | 2% | 2% | 9.6 | 9.9 | 3% | 3% | 14.7 | 14.9 | 1% | 1% | 11.3 | 10.6 | -6% | -6% | 2.9 | 3.0 | 0% | 0% | 4.7 | 4.7 | -1% | -1% |
| 52 | October | 5.5 | 5.2 | -6% | -6% | 11.2 | 10.9 | -3% | -3% | 16.8 | 16.2 | -4% | -4% | 13.6 | 13.5 | 0% | 0% | 3.0 | 2.8 | -4% | -4% | 5.3 | 5.2 | -1% | -1% |
| 52 | November | 4.4 | 4.4 | 0% | 0% | 8.9 | 9.1 | 3% | 3% | 13.5 | 13.8 | 2% | 2% | 10.5 | 10.1 | -4% | -4% | 2.6 | 2.6 | 1% | 1% | 4.4 | 4.4 | 2% | 2% |
| 52 | December | 3.9 | 3.8 | -1% | -1% | 8.1 | 8.4 | 4% | 4% | 12.5 | 12.8 | 3% | 3% | 9.5 | 9.1 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.3 | 8% | 8% |
| 53 | January | 3.4 | 3.4 | -1% | -1% | 7.3 | 7.5 | 3% | 3% | 11.3 | 11.6 | 3% | 3% | 8.5 | 8.3 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.7 | 3.8 | 5% | 5% |
| 53 | February | 2.8 | 3.1 | 11% | 11% | 6.0 | 7.0 | 16% | 16% | 9.3 | 10.8 | 16% | 16% | 7.1 | 7.7 | 9% | 9% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.7 | 8% | 8% |
| 53 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.3 | 2% | 2% | 9.5 | 9.9 | 4% | 4% | 7.0 | 7.1 | 0% | 0% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.3 | 3% | 3% |
| 53 | April | 9.9 | 9.5 | -4% | -4% | 21.7 | 22.1 | 2% | 2% | 28.1 | 28.4 | 1% | 1% | 21.7 | 28.7 | 32% | 32% | 4.6 | 3.3 | -28% | -19% | 11.2 | 11.3 | 1% | 1% |
| 53 | May | 65.5 | 65.4 | 0% | 0% | 143.8 | 144.1 | 0% | 0% | 172.8 | 172.1 | 0% | 0% | 117.6 | 120.2 | 2% | 2% | 44.8 | 39.1 | -13% | -13% | 75.3 | 74.5 | -1% | -1% |
| 53 | June | 32.5 | 32.6 | 0% | 0% | 68.5 | 71.0 | 4% | 2% | 86.0 | 88.4 | 3% | 2% | 63.2 | 65.9 | 4% | 3% | 20.7 | 18.5 | -11% | -5% | 35.7 | 36.2 | 2% | 1% |
| 53 | July | 6.5 | 6.2 | -4% | -2% | 13.3 | 13.4 | 1% | 0% | 19.7 | 19.4 | -1% | -1% | 14.6 | 13.4 | -8% | -4% | 3.6 | 3.6 | 1% | 0% | 6.3 | 6.7 | 6% | 2% |
| 53 | August | 5.5 | 5.4 | -2% | -2% | 11.1 | 11.1 | -1% | -1% | 16.8 | 16.3 | -3% | -3% | 12.7 | 11.5 | -9% | -9% | 3.2 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |

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| 53 | September | 4.8 | 4.8 | 0% | 0% | 9.7 | 10.0 | 2% | 2% | 14.8 | 14.9 | 0% | 0% | 11.5 | 10.9 | -5% | -5% | 2.9 | 3.0 | 0% | 0% | 4.8 | 4.7 | 0% | 0% |
| 53 | October | 4.8 | 4.6 | -5% | -5% | 9.7 | 9.5 | -2% | -2% | 14.8 | 14.3 | -3% | -3% | 11.7 | 11.0 | -6% | -6% | 2.8 | 2.8 | 1% | 1% | 4.6 | 4.5 | -1% | -1% |
| 53 | November | 4.1 | 4.1 | -1% | -1% | 8.4 | 8.9 | 6% | 6% | 12.8 | 13.4 | 5% | 5% | 10.0 | 9.7 | -2% | -2% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.5 | 9% | 9% |
| 53 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 7.9 | 2% | 2% | 11.9 | 12.2 | 2% | 2% | 9.1 | 8.8 | -4% | -4% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 5% | 5% |
| 54 | January | 3.3 | 3.3 | 0% | 0% | 7.0 | 7.5 | 8% | 8% | 10.8 | 11.5 | 7% | 7% | 8.3 | 8.1 | -2% | -2% | 2.1 | 2.1 | 0% | 0% | 3.5 | 4.0 | 14% | 14% |
| 54 | February | 2.7 | 2.9 | 10% | 10% | 5.8 | 6.8 | 17% | 17% | 8.9 | 10.5 | 18% | 18% | 6.8 | 7.5 | 10% | 10% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.6 | 10% | 10% |
| 54 | March | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.3 | 5% | 5% | 9.1 | 9.7 | 7% | 7% | 6.8 | 6.9 | 2% | 2% | 1.8 | 1.8 | 1% | 1% | 3.1 | 3.3 | 8% | 8% |
| 54 | April | 24.6 | 24.6 | 0% | 0% | 54.6 | 55.8 | 2% | 2% | 64.6 | 66.3 | 3% | 3% | 45.4 | 54.6 | 20% | 20% | 15.4 | 12.5 | -19% | -19% | 29.3 | 28.8 | -2% | -2% |
| 54 | May | 58.4 | 58.2 | 0% | 0% | 127.0 | 127.9 | 1% | 1% | 155.2 | 154.6 | 0% | 0% | 107.7 | 109.0 | 1% | 1% | 38.9 | 34.2 | -12% | -12% | 65.9 | 65.9 | 0% | 0% |
| 54 | June | 72.6 | 74.9 | 3% | 3% | 155.3 | 161.4 | 4% | 4% | 194.4 | 201.4 | 4% | 4% | 142.6 | 145.8 | 2% | 2% | 48.9 | 43.1 | -12% | -12% | 82.3 | 82.1 | 0% | 0% |
| 54 | July | 6.8 | 6.7 | -2% | -1% | 13.7 | 14.4 | 5% | 2% | 20.7 | 20.7 | 0% | 0% | 15.6 | 14.0 | -10% | -5% | 3.6 | 3.6 | 1% | 0% | 6.3 | 7.1 | 13% | 4% |
| 54 | August | 5.7 | 5.7 | 0% | 0% | 11.4 | 11.4 | 0% | 0% | 17.3 | 16.8 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.2 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 54 | September | 21.7 | 21.2 | -2% | -2% | 46.2 | 46.9 | 1% | 1% | 58.1 | 58.4 | 1% | 1% | 44.2 | 48.3 | 9% | 9% | 13.0 | 11.3 | -13% | -13% | 24.0 | 23.9 | 0% | 0% |
| 54 | October | 18.6 | 17.6 | -5% | -5% | 38.9 | 38.6 | -1% | -1% | 50.4 | 49.4 | -2% | -2% | 37.3 | 37.7 | 1% | 1% | 10.8 | 9.8 | -9% | -9% | 19.3 | 19.6 | 2% | 2% |
| 54 | November | 6.0 | 6.0 | 0% | 0% | 12.6 | 13.2 | 4% | 4% | 18.7 | 19.1 | 2% | 2% | 13.6 | 12.8 | -6% | -6% | 3.8 | 3.8 | 1% | 1% | 6.3 | 6.6 | 5% | 5% |
| 54 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.1 | 1% | 1% | 16.6 | 16.3 | -2% | -2% | 12.2 | 11.1 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.3 | 5.4 | 2% | 2% |
| 55 | January | 4.6 | 4.7 | 2% | 2% | 9.6 | 9.9 | 3% | 3% | 14.7 | 14.8 | 1% | 1% | 11.1 | 10.1 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 4.7 | 4.9 | 4% | 4% |
| 55 | February | 3.9 | 4.2 | 8% | 8% | 8.0 | 9.0 | 12% | 12% | 12.4 | 13.7 | 10% | 10% | 9.5 | 9.4 | -1% | -1% | 2.6 | 2.7 | 1% | 1% | 4.2 | 4.5 | 8% | 8% |
| 55 | March | 3.6 | 3.7 | 2% | 2% | 7.7 | 8.3 | 7% | 7% | 12.0 | 12.7 | 6% | 6% | 9.1 | 8.6 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.8 | 4.3 | 11% | 11% |
| 55 | April | 21.2 | 21.2 | 0% | 0% | 46.8 | 47.7 | 2% | 2% | 56.5 | 57.6 | 2% | 2% | 40.8 | 47.8 | 17% | 17% | 13.4 | 11.2 | -16% | -16% | 24.9 | 24.6 | -1% | -1% |
| 55 | May | 54.5 | 54.1 | -1% | -1% | 118.5 | 119.0 | 0% | 0% | 146.3 | 145.8 | 0% | 0% | 101.6 | 102.4 | 1% | 1% | 36.8 | 32.4 | -12% | -12% | 61.5 | 61.4 | 0% | 0% |
| 55 | June | 29.8 | 29.9 | 0% | 0% | 62.9 | 64.7 | 3% | 2% | 80.0 | 82.1 | 3% | 1% | 59.0 | 61.3 | 4% | 3% | 19.0 | 17.1 | -10% | -4% | 32.8 | 32.8 | 0% | 0% |
| 55 | July | 6.7 | 6.4 | -4% | -2% | 13.8 | 13.9 | 1% | 0% | 20.4 | 20.1 | -1% | -1% | 15.0 | 13.7 | -8% | -4% | 3.8 | 3.9 | 1% | 0% | 6.6 | 6.9 | 5% | 1% |
| 55 | August | 5.5 | 5.5 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.8 | -2% | -2% | 12.9 | 11.7 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | -1% | -1% |
| 55 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.0 | 3% | 3% | 14.7 | 15.0 | 2% | 2% | 11.3 | 10.6 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 55 | October | 5.4 | 5.1 | -6% | -6% | 11.1 | 10.8 | -3% | -3% | 16.5 | 16.0 | -3% | -3% | 13.2 | 13.1 | -1% | -1% | 3.0 | 2.9 | -4% | -4% | 5.2 | 5.2 | -1% | -1% |
| 55 | November | 4.4 | 4.4 | 0% | 0% | 8.9 | 9.6 | 8% | 8% | 13.4 | 14.3 | 7% | 7% | 10.5 | 10.1 | -3% | -3% | 2.6 | 2.6 | 1% | 1% | 4.4 | 4.9 | 12% | 12% |
| 55 | December | 3.9 | 3.8 | -1% | -1% | 8.1 | 8.1 | 1% | 1% | 12.4 | 12.6 | 2% | 2% | 9.4 | 9.0 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.0 | 1% | 1% |
| 56 | January | 3.4 | 3.4 | 0% | 0% | 7.3 | 7.4 | 2% | 2% | 11.2 | 11.6 | 3% | 3% | 8.6 | 8.3 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.7 | 3.7 | 1% | 1% |
| 56 | February | 2.8 | 3.1 | 12% | 12% | 6.1 | 7.2 | 19% | 19% | 9.3 | 11.1 | 20% | 20% | 7.0 | 7.7 | 10% | 10% | 2.0 | 2.1 | 1% | 1% | 3.5 | 3.9 | 13% | 13% |
| 56 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.7 | 7% | 7% | 9.4 | 10.3 | 9% | 9% | 7.0 | 7.1 | 1% | 1% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.6 | 12% | 12% |
| 56 | April | 14.4 | 14.0 | -3% | -3% | 31.8 | 32.4 | 2% | 2% | 39.2 | 39.7 | 1% | 1% | 28.9 | 37.0 | 28% | 28% | 7.9 | 6.1 | -23% | -23% | 16.7 | 16.7 | 0% | 0% |
| 56 | May | 72.3 | 72.5 | 0% | 0% | 158.0 | 159.0 | 1% | 1% | 191.2 | 191.7 | 0% | 0% | 131.7 | 133.3 | 1% | 1% | 49.2 | 43.1 | -12% | -12% | 82.5 | 82.0 | 0% | 0% |
| 56 | June | 50.9 | 51.8 | 2% | 2% | 108.1 | 111.9 | 4% | 3% | 135.5 | 139.7 | 3% | 3% | 99.6 | 102.7 | 3% | 3% | 33.5 | 29.7 | -11% | -8% | 56.8 | 57.0 | 0% | 0% |
| 56 | July | 6.7 | 6.5 | -3% | -2% | 13.6 | 14.1 | 3% | 1% | 20.4 | 20.3 | 0% | 0% | 15.3 | 13.9 | -9% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 7.0 | 10% | 3% |
| 56 | August | 5.7 | 5.6 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.7 | -3% | -3% | 13.1 | 11.8 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 56 | September | 8.0 | 7.7 | -3% | -3% | 16.4 | 16.5 | 1% | 1% | 23.0 | 22.7 | -1% | -1% | 18.9 | 20.6 | 9% | 9% | 3.7 | 3.3 | -11% | -11% | 8.0 | 7.9 | -1% | -1% |
| 56 | October | 15.6 | 14.6 | -6% | -6% | 32.9 | 32.3 | -2% | -2% | 41.5 | 40.2 | -3% | -3% | 31.9 | 33.6 | 5% | 5% | 8.6 | 7.6 | -11% | -11% | 16.3 | 16.4 | 0% | 0% |
| 56 | November | 5.8 | 5.7 | -1% | -1% | 12.0 | 12.7 | 6% | 6% | 17.6 | 18.2 | 4% | 4% | 12.9 | 12.2 | -5% | -5% | 3.7 | 3.7 | 1% | 1% | 6.0 | 6.6 | 9% | 9% |
| 56 | December | 5.1 | 5.0 | -2% | -2% | 10.6 | 10.8 | 2% | 2% | 15.8 | 15.9 | 1% | 1% | 11.6 | 10.7 | -8% | -8% | 3.3 | 3.3 | 0% | 0% | 5.2 | 5.4 | 5% | 5% |
| 57 | January | 4.5 | 4.5 | 0% | 0% | 9.3 | 9.6 | 3% | 3% | 14.1 | 14.4 | 2% | 2% | 10.6 | 9.8 | -8% | -8% | 2.9 | 3.0 | 0% | 0% | 4.6 | 4.8 | 4% | 4% |
| 57 | February | 3.6 | 4.0 | 10% | 10% | 7.6 | 8.7 | 15% | 15% | 11.5 | 13.2 | 15% | 15% | 8.7 | 9.0 | 4% | 4% | 2.6 | 2.6 | 1% | 1% | 4.2 | 4.5 | 7% | 7% |
| 57 | March | 3.5 | 3.5 | 0% | 0% | 7.5 | 7.8 | 4% | 4% | 11.6 | 12.1 | 4% | 4% | 8.7 | 8.3 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 3.8 | 4.1 | 6% | 6% |
| 57 | April | 31.7 | 32.0 | 1% | 1% | 69.9 | 71.6 | 2% | 2% | 84.1 | 85.9 | 2% | 2% | 57.4 | 65.2 | 14% | 14% | 21.4 | 18.1 | -15% | -15% | 37.6 | 36.9 | -2% | -2% |
| 57 | May | 55.9 | 55.7 | 0% | 0% | 121.2 | 122.0 | 1% | 1% | 149.7 | 149.9 | 0% | 0% | 106.1 | 106.7 | 1% | 1% | 37.2 | 32.8 | -12% | -12% | 62.8 | 62.8 | 0% | 0% |
| 57 | June | 35.7 | 36.0 | 1% | 1% | 75.6 | 77.9 | 3% | 2% | 95.8 | 98.4 | 3% | 2% | 70.6 | 73.5 | 4% | 4% | 23.1 | 20.7 | -11% | -5% | 39.4 | 39.6 | 0% | 0% |
| 57 | July | 6.8 | 6.6 | -3% | -1% | 13.9 | 14.1 | 1% | 0% | 20.7 | 20.4 | -1% | -1% | 15.3 | 14.0 | -9% | -4% | 3.8 | 3.9 | 1% | 0% | 6.6 | 7.0 | 5% | 2% |
| 57 | August | 5.6 | 5.6 | 0% | 0% | 11.6 | 11.6 | 0% | 0% | 17.4 | 17.0 | -2% | -2% | 13.1 | 11.9 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.6 | 5.5 | 0% | 0% |
| 57 | September | 4.8 | 4.9 | 2% | 2% | 9.8 | 10.0 | 3% | 3% | 14.9 | 15.1 | 1% | 1% | 11.4 | 10.7 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 57 | October | 35.0 | 34.1 | -3% | -3% | 76.2 | 75.9 | 0% | 0% | 94.1 | 93.1 | -1% | -1% | 67.5 | 70.9 | 5% | 5% | 22.5 | 19.4 | -14% | -14% | 39.3 | 39.3 | 0% | 0% |
| 57 | November | 5.9 | 5.9 | 0% | 0% | 12.1 | 13.3 | 10% | 10% | 18.1 | 19.1 | 6% | 6% | 13.3 | 12.6 | -5% | -5% | 3.4 | 3.4 | 1% | 1% | 5.9 | 6.9 | 16% | 16% |
| 57 | December | 5.2 | 5.2 | -1% | -1% | 10.7 | 10.9 | 1% | 1% | 16.2 | 16.1 | -1% | -1% | 12.1 | 11.0 | -9% | -9% | 3.2 | 3.2 | 1% | 1% | 5.1 | 5.3 | 3% | 3% |
| 58 | January | 4.6 | 4.6 | 1% | 1% | 9.4 | 9.6 | 2% | 2% | 14.4 | 14.4 | 0% | 0% | 11.0 | 10.1 | -9% | -9% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.6 | 2% | 2% |
| 58 | February | 4.1 | 4.4 | 6% | 6% | 8.4 | 9.5 | 13% | 13% | 12.8 | 14.3 | 12% | 12% | 10.0 | 10.5 | 5% | 5% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.8 | 8% | 8% |
| 58 | March | 4.0 | 3.9 | -1% | -1% | 8.2 | 8.5 | 3% | 3% | 12.6 | 13.0 | 3% | 3% | 9.8 | 9.4 | -4% | -4% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.3 | 6% | 6% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | April | 13.2 | 12.9 | -3% | -3% | 29.0 | 29.4 | 2% | 2% | 36.5 | 36.8 | 1% | 1% | 28.0 | 34.1 | 22% | 22% | 7.1 | 5.7 | -19% | -19% | 15.2 | 15.1 | 0% | 0% |
| 58 | May | 66.8 | 66.7 | 0% | 0% | 145.7 | 146.3 | 0% | 0% | 177.8 | 178.1 | 0% | 0% | 123.6 | 124.8 | 1% | 1% | 45.6 | 40.1 | -12% | -12% | 75.9 | 75.4 | -1% | -1% |
| 58 | June | 61.2 | 62.7 | 3% | 3% | 130.6 | 135.8 | 4% | 4% | 164.1 | 170.0 | 4% | 4% | 120.3 | 127.0 | 6% | 6% | 41.0 | 36.3 | -12% | -10% | 69.0 | 69.4 | 1% | 1% |
| 58 | July | 7.1 | 6.9 | -3% | -1% | 14.4 | 14.8 | 3% | 1% | 21.4 | 21.3 | 0% | 0% | 16.0 | 14.6 | -9% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.3 | 9% | 3% |
| 58 | August | 5.9 | 5.8 | -1% | -1% | 11.9 | 11.9 | 0% | 0% | 17.9 | 17.5 | -2% | -2% | 13.5 | 12.2 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.7 | 5.7 | 0% | 0% |
| 58 | September | 5.0 | 5.1 | 2% | 2% | 10.1 | 10.3 | 3% | 3% | 15.3 | 15.4 | 1% | 1% | 11.9 | 11.1 | -6% | -6% | 3.1 | 3.1 | 1% | 1% | 4.9 | 4.9 | -1% | -1% |
| 58 | October | 5.3 | 5.1 | -5% | -5% | 10.8 | 10.5 | -2% | -2% | 16.3 | 15.7 | -3% | -3% | 13.0 | 12.6 | -3% | -3% | 3.0 | 2.9 | -2% | -2% | 5.1 | 5.0 | -1% | -1% |
| 58 | November | 4.5 | 4.5 | 1% | 1% | 9.1 | 9.6 | 6% | 6% | 13.8 | 14.4 | 4% | 4% | 10.8 | 10.4 | -3% | -3% | 2.6 | 2.6 | 1% | 1% | 4.5 | 4.8 | 8% | 8% |
| 58 | December | 4.0 | 4.0 | -2% | -2% | 8.3 | 8.3 | 0% | 0% | 12.8 | 12.8 | 0% | 0% | 9.7 | 9.3 | -5% | -5% | 2.4 | 2.5 | 1% | 1% | 4.1 | 4.1 | 1% | 1% |
| 59 | January | 3.6 | 3.5 | -1% | -1% | 7.5 | 8.0 | 7% | 7% | 11.6 | 12.3 | 6% | 6% | 8.8 | 8.5 | -3% | -3% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.2 | 14% | 14% |
| 59 | February | 3.0 | 3.2 | 7% | 7% | 6.4 | 6.9 | 7% | 7% | 9.9 | 10.8 | 9% | 9% | 7.5 | 7.9 | 6% | 6% | 2.1 | 2.1 | 0% | 0% | 3.5 | 3.5 | 0% | 0% |
| 59 | March | 2.9 | 2.8 | -1% | -1% | 6.3 | 6.7 | 6% | 6% | 9.8 | 10.4 | 7% | 7% | 7.3 | 7.3 | 0% | 0% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.6 | 11% | 11% |
| 59 | April | 4.9 | 4.6 | -5% | -4% | 10.3 | 10.5 | 2% | 1% | 14.7 | 15.1 | 3% | 2% | 12.3 | 15.5 | 27% | 21% | 2.5 | 2.0 | -19% | -7% | 5.1 | 5.2 | 1% | 1% |
| 59 | May | 42.8 | 41.8 | -2% | -2% | 94.3 | 93.4 | -1% | -1% | 112.2 | 110.9 | -1% | -1% | 74.9 | 80.7 | 8% | 8% | 27.8 | 23.7 | -15% | -11% | 49.3 | 48.4 | -2% | -2% |
| 59 | June | 78.3 | 81.5 | 4% | 4% | 169.1 | 176.7 | 5% | 5% | 209.1 | 217.6 | 4% | 4% | 151.0 | 155.7 | 3% | 3% | 53.7 | 47.2 | -12% | -12% | 90.4 | 90.4 | 0% | 0% |
| 59 | July | 6.7 | 6.5 | -4% | -2% | 13.4 | 13.9 | 3% | 1% | 20.1 | 19.9 | -1% | -1% | 15.0 | 13.7 | -9% | -5% | 3.5 | 3.5 | 1% | 0% | 6.1 | 6.8 | 11% | 3% |
| 59 | August | 5.7 | 5.6 | -2% | -2% | 11.4 | 11.3 | -1% | -1% | 17.2 | 16.6 | -4% | -4% | 13.0 | 11.9 | -9% | -9% | 3.2 | 3.2 | 1% | 1% | 5.3 | 5.2 | -1% | -1% |
| 59 | September | 4.9 | 5.0 | 2% | 2% | 9.7 | 10.0 | 3% | 3% | 14.9 | 14.9 | 0% | 0% | 11.7 | 11.0 | -6% | -6% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.6 | -1% | -1% |
| 59 | October | 4.4 | 4.4 | -1% | -1% | 8.9 | 8.9 | -1% | -1% | 13.8 | 13.5 | -2% | -2% | 10.9 | 10.0 | -8% | -8% | 2.5 | 2.6 | 1% | 1% | 4.2 | 4.1 | -1% | -1% |
| 59 | November | 3.9 | 3.9 | 2% | 2% | 7.8 | 8.4 | 7% | 7% | 12.2 | 12.8 | 5% | 5% | 9.5 | 9.2 | -3% | -3% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.2 | 9% | 9% |
| 59 | December | 3.6 | 3.5 | -1% | -1% | 7.4 | 8.5 | 15% | 15% | 11.6 | 12.6 | 9% | 9% | 8.8 | 8.4 | -4% | -4% | 2.1 | 2.2 | 2% | 2% | 3.6 | 4.7 | 30% | 30% |
| 60 | January | 3.1 | 3.1 | -1% | -1% | 6.7 | 7.5 | 12% | 12% | 10.5 | 11.4 | 9% | 9% | 8.0 | 7.8 | -2% | -2% | 2.0 | 2.0 | 0% | 0% | 3.4 | 4.1 | 24% | 24% |
| 60 | February | 2.5 | 2.8 | 10% | 10% | 5.5 | 6.2 | 13% | 13% | 8.7 | 9.9 | 14% | 14% | 6.6 | 7.3 | 10% | 10% | 1.8 | 1.9 | 1% | 1% | 3.1 | 3.2 | 3% | 3% |
| 60 | March | 2.6 | 2.6 | 0% | 0% | 5.7 | 5.7 | 1% | 1% | 8.8 | 9.2 | 4% | 4% | 6.5 | 6.7 | 2% | 2% | 1.7 | 1.7 | 1% | 1% | 3.0 | 2.9 | -1% | -1% |
| 60 | April | 42.2 | 43.0 | 2% | 2% | 93.4 | 96.6 | 3% | 3% | 111.4 | 114.8 | 3% | 3% | 75.5 | 85.8 | 14% | 14% | 28.7 | 24.0 | -16% | -16% | 50.4 | 50.1 | -1% | -1% |
| 60 | May | 68.3 | 68.6 | 0% | 0% | 147.4 | 148.9 | 1% | 1% | 181.9 | 182.6 | 0% | 0% | 131.4 | 132.1 | 1% | 1% | 44.8 | 39.2 | -12% | -12% | 76.0 | 76.1 | 0% | 0% |
| 60 | June | 94.6 | 97.8 | 3% | 3% | 201.7 | 209.9 | 4% | 4% | 253.5 | 262.0 | 3% | 3% | 187.0 | 195.9 | 5% | 5% | 63.6 | 55.9 | -12% | -12% | 106.7 | 106.6 | 0% | 0% |
| 60 | July | 12.9 | 12.3 | -5% | -4% | 25.9 | 26.1 | 1% | 1% | 35.5 | 34.7 | -2% | -2% | 28.6 | 28.1 | -2% | -2% | 6.2 | 5.7 | -8% | -3% | 12.1 | 12.8 | 6% | 3% |
| 60 | August | 6.6 | 6.5 | -2% | -2% | 13.4 | 13.3 | 0% | 0% | 19.9 | 19.3 | -3% | -3% | 15.1 | 13.7 | -9% | -9% | 3.8 | 3.8 | 1% | 1% | 6.3 | 6.3 | 0% | 0% |
| 60 | September | 6.7 | 6.6 | -2% | -2% | 13.6 | 13.8 | 1% | 1% | 19.9 | 19.8 | 0% | 0% | 15.5 | 15.7 | 1% | 1% | 3.8 | 3.7 | -2% | -2% | 6.7 | 6.6 | -1% | -1% |
| 60 | October | 5.6 | 5.4 | -4% | -4% | 11.3 | 11.1 | -1% | -1% | 16.9 | 16.3 | -3% | -3% | 12.9 | 11.8 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.4 | 1% | 1% |
| 60 | November | 4.7 | 4.8 | 2% | 2% | 9.6 | 10.1 | 5% | 5% | 14.6 | 15.1 | 3% | 3% | 11.3 | 10.8 | -5% | -5% | 3.0 | 3.0 | 0% | 0% | 4.7 | 4.9 | 4% | 4% |
| 60 | December | 4.3 | 4.2 | -2% | -2% | 8.9 | 8.8 | 0% | 0% | 13.7 | 13.5 | -1% | -1% | 10.5 | 9.8 | -6% | -6% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.3 | 1% | 1% |
| 61 | January | 3.8 | 3.7 | -2% | -2% | 8.0 | 8.4 | 5% | 5% | 12.4 | 12.8 | 3% | 3% | 9.4 | 8.9 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.3 | 11% | 11% |
| 61 | February | 3.1 | 3.4 | 9% | 9% | 6.6 | 7.3 | 12% | 12% | 10.3 | 11.5 | 12% | 12% | 7.7 | 8.3 | 8% | 8% | 2.2 | 2.2 | 0% | 0% | 3.6 | 3.7 | 2% | 2% |
| 61 | March | 3.0 | 3.0 | -1% | -1% | 6.6 | 6.9 | 5% | 5% | 10.4 | 10.8 | 4% | 4% | 7.8 | 7.7 | -1% | -1% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.7 | 8% | 8% |
| 61 | April | 8.0 | 7.6 | -5% | -5% | 17.0 | 16.9 | 0% | 0% | 23.0 | 22.9 | 0% | 0% | 19.0 | 24.5 | 29% | 29% | 3.3 | 2.2 | -31% | -15% | 8.5 | 8.3 | -3% | -2% |
| 61 | May | 35.6 | 34.5 | -3% | -3% | 78.0 | 77.0 | -1% | -1% | 93.0 | 91.5 | -2% | -1% | 61.4 | 65.3 | 6% | 6% | 23.7 | 20.7 | -13% | -8% | 40.5 | 39.9 | -2% | -1% |
| 61 | June | 22.2 | 21.7 | -2% | -1% | 46.9 | 47.8 | 2% | 1% | 58.5 | 58.7 | 0% | 0% | 41.8 | 44.2 | 6% | 3% | 13.8 | 12.5 | -9% | -3% | 24.3 | 24.4 | 0% | 0% |
| 61 | July | 6.2 | 5.9 | -5% | -2% | 12.9 | 12.9 | -1% | 0% | 18.9 | 18.4 | -3% | -1% | 13.8 | 12.7 | -8% | -4% | 3.7 | 3.7 | 1% | 0% | 6.3 | 6.5 | 3% | 1% |
| 61 | August | 5.3 | 5.2 | -2% | -2% | 10.9 | 10.8 | 0% | 0% | 16.2 | 15.8 | -2% | -2% | 12.0 | 11.0 | -8% | -8% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 61 | September | 4.4 | 4.6 | 5% | 5% | 9.2 | 9.6 | 4% | 4% | 13.8 | 14.3 | 3% | 3% | 10.6 | 10.1 | -5% | -5% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.6 | -1% | -1% |
| 61 | October | 5.3 | 5.1 | -5% | -5% | 11.0 | 10.8 | -2% | -2% | 16.0 | 15.8 | -2% | -2% | 13.0 | 13.2 | 2% | 2% | 3.0 | 2.8 | -4% | -4% | 5.3 | 5.2 | -1% | -1% |
| 61 | November | 4.1 | 4.2 | 2% | 2% | 8.6 | 9.2 | 7% | 7% | 12.8 | 13.6 | 7% | 7% | 9.9 | 9.7 | -2% | -2% | 2.6 | 2.6 | 1% | 1% | 4.4 | 4.7 | 7% | 7% |
| 61 | December | 3.6 | 3.7 | 2% | 2% | 7.8 | 8.2 | 5% | 5% | 11.7 | 12.3 | 6% | 6% | 9.0 | 8.7 | -3% | -3% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.3 | 7% | 7% |
| 62 | January | 3.2 | 3.3 | 2% | 2% | 7.1 | 8.0 | 12% | 12% | 10.6 | 11.8 | 11% | 11% | 8.1 | 8.0 | -2% | -2% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.4 | 20% | 20% |
| 62 | February | 2.7 | 3.0 | 12% | 12% | 5.9 | 6.8 | 14% | 14% | 8.9 | 10.4 | 17% | 17% | 6.7 | 7.4 | 12% | 12% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.5 | 3% | 3% |
| 62 | March | 2.7 | 2.7 | 1% | 1% | 6.1 | 6.5 | 5% | 5% | 9.1 | 9.8 | 8% | 8% | 6.7 | 6.8 | 3% | 3% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.5 | 8% | 8% |
| 62 | April | 6.4 | 6.1 | -5% | -5% | 14.0 | 14.3 | 2% | 1% | 19.0 | 19.5 | 2% | 2% | 15.9 | 21.0 | 32% | 32% | 2.9 | 2.0 | -29% | -12% | 7.2 | 7.2 | 1% | 1% |
| 62 | May | 58.0 | 57.6 | -1% | -1% | 127.8 | 127.7 | 0% | 0% | 152.1 | 151.3 | -1% | -1% | 101.2 | 105.5 | 4% | 4% | 39.3 | 34.0 | -13% | -13% | 66.9 | 66.2 | -1% | -1% |
| 62 | June | 82.4 | 85.4 | 4% | 4% | 176.9 | 184.5 | 4% | 4% | 219.6 | 228.1 | 4% | 4% | 160.0 | 164.2 | 3% | 3% | 56.1 | 49.3 | -12% | -12% | 94.2 | 94.1 | 0% | 0% |
| 62 | July | 6.8 | 6.6 | -3% | -2% | 13.6 | 14.1 | 4% | 1% | 20.3 | 20.1 | -1% | 0% | 15.4 | 13.8 | -10% | -5% | 3.6 | 3.6 | 1% | 0% | 6.2 | 6.9 | 12% | 3% |
| 62 | August | 5.7 | 5.7 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.7 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.2 | 3.2 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 62 | September | 4.8 | 4.9 | 3% | 3% | 9.6 | 9.9 | 3% | 3% | 14.7 | 14.8 | 0% | 0% | 11.5 | 10.8 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.6 | 4.6 | -1% | -1% |
| 62 | October | 19.4 | 18.4 | -5% | -5% | 41.8 | 41.1 | -2% | -2% | 51.7 | 50.2 | -3% | -3% | 39.8 | 43.3 | 9% | 9% | 11.0 | 9.4 | -14% | -14% | 21.2 | 21.1 | 0% | 0% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | November | 5.5 | 5.5 | -1% | -1% | 11.3 | 11.9 | 6% | 6% | 16.9 | 17.4 | 3% | 3% | 12.5 | 11.8 | -6% | -6% | 3.2 | 3.3 | 1% | 1% | 5.5 | 6.0 | 9% | 9% |
| 62 | December | 4.9 | 4.8 | -1% | -1% | 10.0 | 10.3 | 3% | 3% | 15.2 | 15.2 | 0% | 0% | 11.3 | 10.3 | -9% | -9% | 3.0 | 3.1 | 0% | 0% | 4.8 | 5.1 | 5% | 5% |
| 63 | January | 4.3 | 4.3 | 0% | 0% | 8.8 | 9.1 | 3% | 3% | 13.7 | 13.8 | 1% | 1% | 10.3 | 9.5 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.5 | 5% | 5% |
| 63 | February | 3.6 | 3.8 | 6% | 6% | 7.4 | 8.5 | 14% | 14% | 11.5 | 12.9 | 12% | 12% | 8.7 | 8.7 | 0% | 0% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.4 | 13% | 13% |
| 63 | March | 3.8 | 3.6 | -5% | -5% | 7.9 | 7.9 | -1% | -1% | 12.2 | 12.2 | 0% | 0% | 9.4 | 9.1 | -2% | -2% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.0 | 2% | 2% |
| 63 | April | 6.1 | 5.8 | -5% | -5% | 12.6 | 12.6 | 0% | 0% | 17.9 | 18.0 | 0% | 0% | 15.0 | 17.9 | 19% | 18% | 2.9 | 2.4 | -17% | -7% | 6.2 | 6.1 | -2% | -1% |
| 63 | May | 47.0 | 46.0 | -2% | -2% | 103.2 | 102.5 | -1% | -1% | 124.0 | 122.4 | -1% | -1% | 83.5 | 87.8 | 5% | 5% | 31.3 | 27.1 | -13% | -11% | 53.9 | 53.2 | -1% | -1% |
| 63 | June | 47.4 | 48.8 | 3% | 3% | 101.9 | 105.9 | 4% | 3% | 126.7 | 131.2 | 4% | 3% | 91.6 | 95.0 | 4% | 4% | 32.0 | 28.3 | -11% | -7% | 54.1 | 54.1 | 0% | 0% |
| 63 | July | 6.7 | 6.4 | -5% | -2% | 13.7 | 13.9 | 2% | 1% | 20.3 | 20.1 | -1% | -1% | 15.0 | 13.8 | -8% | -4% | 3.8 | 3.8 | 1% | 0% | 6.5 | 7.0 | 7% | 2% |
| 63 | August | 5.8 | 5.7 | -3% | -3% | 11.9 | 11.7 | -1% | -1% | 17.7 | 17.1 | -3% | -3% | 13.3 | 12.2 | -8% | -8% | 3.4 | 3.5 | 2% | 2% | 5.6 | 5.6 | -1% | -1% |
| 63 | September | 9.7 | 9.4 | -3% | -3% | 20.4 | 20.6 | 1% | 1% | 27.7 | 27.4 | -1% | -1% | 22.9 | 25.3 | 11% | 11% | 4.6 | 4.0 | -14% | -14% | 10.2 | 10.2 | -1% | -1% |
| 63 | October | 12.2 | 11.4 | -6% | -6% | 25.0 | 24.5 | -2% | -2% | 32.5 | 31.5 | -3% | -3% | 24.7 | 25.6 | 4% | 4% | 6.3 | 5.7 | -9% | -9% | 12.0 | 12.1 | 1% | 1% |
| 63 | November | 5.8 | 5.7 | -1% | -1% | 12.1 | 12.8 | 6% | 6% | 17.4 | 18.1 | 4% | 4% | 12.9 | 12.2 | -5% | -5% | 3.8 | 3.9 | 1% | 1% | 6.1 | 6.6 | 9% | 9% |
| 63 | December | 5.2 | 5.1 | -2% | -2% | 10.8 | 11.1 | 3% | 3% | 15.7 | 16.1 | 2% | 2% | 11.7 | 10.7 | -8% | -8% | 3.5 | 3.5 | 1% | 1% | 5.3 | 5.7 | 7% | 7% |
| 64 | January | 4.5 | 4.5 | 0% | 0% | 9.5 | 10.5 | 10% | 10% | 14.0 | 15.2 | 8% | 8% | 10.6 | 9.8 | -7% | -7% | 3.0 | 3.1 | 0% | 0% | 4.7 | 5.6 | 20% | 20% |
| 64 | February | 3.6 | 4.0 | 11% | 11% | 7.6 | 8.8 | 15% | 15% | 11.4 | 13.2 | 15% | 15% | 8.7 | 9.0 | 4% | 4% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.5 | 6% | 6% |
| 64 | March | 3.5 | 3.5 | 1% | 1% | 7.6 | 7.7 | 1% | 1% | 11.5 | 11.9 | 3% | 3% | 8.8 | 8.4 | -4% | -4% | 2.4 | 2.5 | 1% | 1% | 3.9 | 3.9 | 0% | 0% |
| 64 | April | 37.5 | 38.0 | 1% | 1% | 82.8 | 85.0 | 3% | 3% | 99.6 | 101.9 | 2% | 2% | 67.0 | 75.2 | 12% | 12% | 25.9 | 22.1 | -15% | -15% | 44.7 | 44.0 | -2% | -2% |
| 64 | May | 74.9 | 75.2 | 0% | 0% | 162.1 | 163.5 | 1% | 1% | 200.6 | 201.7 | 1% | 1% | 144.1 | 144.1 | 0% | 0% | 50.0 | 44.0 | -12% | -12% | 84.0 | 83.8 | 0% | 0% |
| 64 | June | 44.8 | 45.3 | 1% | 1% | 94.6 | 97.9 | 3% | 3% | 120.3 | 123.2 | 2% | 2% | 88.7 | 90.6 | 2% | 2% | 29.1 | 25.9 | -11% | -7% | 49.5 | 49.8 | 1% | 0% |
| 64 | July | 7.0 | 6.9 | -2% | -1% | 14.3 | 14.7 | 3% | 1% | 21.3 | 21.2 | -1% | 0% | 15.9 | 14.4 | -10% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.2 | 7% | 2% |
| 64 | August | 5.8 | 5.7 | -1% | -1% | 11.9 | 11.8 | 0% | 0% | 17.8 | 17.4 | -2% | -2% | 13.4 | 12.1 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.7 | 0% | 0% |
| 64 | September | 5.3 | 5.3 | 0% | 0% | 10.6 | 10.8 | 2% | 2% | 16.1 | 16.1 | 0% | 0% | 12.5 | 11.9 | -5% | -5% | 3.2 | 3.2 | 1% | 1% | 5.2 | 5.2 | -1% | -1% |
| 64 | October | 7.5 | 7.0 | -6% | -6% | 15.3 | 14.9 | -3% | -3% | 21.8 | 20.9 | -4% | -4% | 17.7 | 18.6 | 5% | 5% | 3.5 | 3.1 | -10% | -10% | 7.3 | 7.2 | -1% | -1% |
| 64 | November | 5.0 | 5.0 | -1% | -1% | 10.2 | 10.5 | 3% | 3% | 15.2 | 15.5 | 2% | 2% | 11.7 | 11.2 | -4% | -4% | 3.0 | 3.0 | 1% | 1% | 5.0 | 5.1 | 2% | 2% |
| 64 | December | 4.5 | 4.4 | -2% | -2% | 9.3 | 9.5 | 3% | 3% | 14.0 | 14.2 | 2% | 2% | 10.6 | 10.0 | -6% | -6% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.8 | 7% | 7% |
| 65 | January | 3.9 | 3.9 | -1% | -1% | 8.3 | 9.4 | 14% | 14% | 12.6 | 13.9 | 10% | 10% | 9.5 | 9.1 | -5% | -5% | 2.5 | 2.5 | 1% | 1% | 4.1 | 5.2 | 28% | 28% |
| 65 | February | 3.2 | 3.5 | 10% | 10% | 6.8 | 7.7 | 14% | 14% | 10.4 | 11.9 | 14% | 14% | 7.9 | 8.4 | 7% | 7% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 4% | 4% |
| 65 | March | 3.2 | 3.2 | 0% | 0% | 6.9 | 7.2 | 4% | 4% | 10.6 | 11.1 | 5% | 5% | 7.9 | 7.8 | -1% | -1% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.8 | 7% | 7% |
| 65 | April | 6.0 | 5.7 | -5% | -5% | 12.8 | 12.9 | 1% | 1% | 17.8 | 18.1 | 2% | 1% | 14.8 | 18.5 | 25% | 24% | 2.9 | 2.3 | -20% | -9% | 6.4 | 6.4 | 0% | 0% |
| 65 | May | 73.8 | 74.0 | 0% | 0% | 162.7 | 163.4 | 0% | 0% | 196.0 | 196.1 | 0% | 0% | 134.0 | 138.3 | 3% | 3% | 50.4 | 43.6 | -13% | -13% | 85.5 | 84.6 | -1% | -1% |
| 65 | June | 98.9 | 102.4 | 4% | 4% | 211.4 | 220.4 | 4% | 4% | 264.3 | 274.2 | 4% | 4% | 193.4 | 200.8 | 4% | 4% | 66.9 | 58.8 | -12% | -12% | 112.1 | 112.2 | 0% | 0% |
| 65 | July | 7.1 | 6.9 | -3% | -2% | 14.0 | 14.9 | 6% | 2% | 21.2 | 21.2 | 0% | 0% | 16.0 | 14.5 | -9% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 7.4 | 16% | 5% |
| 65 | August | 5.9 | 5.9 | 0% | 0% | 11.8 | 11.8 | 0% | 0% | 17.8 | 17.2 | -3% | -3% | 13.6 | 12.4 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 65 | September | 23.0 | 22.5 | -2% | -2% | 48.8 | 49.6 | 2% | 2% | 61.4 | 61.7 | 0% | 0% | 46.6 | 50.6 | 9% | 9% | 13.8 | 12.0 | -13% | -13% | 25.4 | 25.3 | 0% | 0% |
| 65 | October | 13.1 | 12.3 | -6% | -6% | 27.1 | 26.8 | -1% | -1% | 35.8 | 35.0 | -2% | -2% | 27.7 | 27.9 | 1% | 1% | 6.9 | 6.3 | -9% | -9% | 13.1 | 13.4 | 3% | 3% |
| 65 | November | 6.0 | 6.1 | 0% | 0% | 12.5 | 13.5 | 7% | 7% | 18.6 | 19.3 | 4% | 4% | 13.6 | 12.8 | -6% | -6% | 3.9 | 3.9 | 1% | 1% | 6.3 | 6.9 | 10% | 10% |
| 65 | December | 5.3 | 5.3 | -1% | -1% | 11.0 | 11.6 | 5% | 5% | 16.6 | 16.8 | 1% | 1% | 12.2 | 11.1 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.4 | 5.9 | 10% | 10% |
| 66 | January | 4.7 | 4.7 | 0% | 0% | 9.7 | 10.5 | 8% | 8% | 14.8 | 15.5 | 4% | 4% | 11.1 | 10.2 | -8% | -8% | 3.0 | 3.0 | 1% | 1% | 4.7 | 5.5 | 16% | 16% |
| 66 | February | 3.8 | 4.2 | 11% | 11% | 7.9 | 9.0 | 14% | 14% | 12.2 | 13.7 | 12% | 12% | 9.2 | 9.5 | 3% | 3% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.5 | 4% | 4% |
| 66 | March | 3.7 | 3.7 | 1% | 1% | 7.9 | 8.4 | 7% | 7% | 12.2 | 12.9 | 5% | 5% | 9.2 | 8.7 | -5% | -5% | 2.4 | 2.5 | 1% | 1% | 3.9 | 4.4 | 12% | 12% |
| 66 | April | 13.6 | 13.2 | -3% | -3% | 29.8 | 30.1 | 1% | 1% | 37.6 | 37.6 | 0% | 0% | 28.4 | 34.5 | 22% | 22% | 7.6 | 6.2 | -18% | -18% | 15.7 | 15.4 | -2% | -2% |
| 66 | May | 109.3 | 110.4 | 1% | 1% | 238.0 | 240.2 | 1% | 1% | 293.0 | 294.8 | 1% | 1% | 206.3 | 209.5 | 2% | 2% | 74.8 | 65.5 | -12% | -12% | 124.1 | 123.3 | -1% | -1% |
| 66 | June | 91.4 | 94.2 | 3% | 3% | 194.5 | 202.8 | 4% | 4% | 244.9 | 253.2 | 3% | 3% | 180.9 | 189.6 | 5% | 5% | 61.4 | 54.1 | -12% | -12% | 102.7 | 103.3 | 1% | 1% |
| 66 | July | 7.5 | 7.3 | -3% | -1% | 14.9 | 15.4 | 3% | 1% | 22.4 | 22.1 | -1% | -1% | 17.0 | 15.4 | -9% | -5% | 3.9 | 4.0 | 1% | 0% | 6.8 | 7.5 | 10% | 3% |
| 66 | August | 6.1 | 6.1 | -1% | -1% | 12.3 | 12.3 | 0% | 0% | 18.5 | 18.0 | -3% | -3% | 14.0 | 12.8 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.8 | 5.7 | 0% | 0% |
| 66 | September | 5.2 | 5.3 | 2% | 2% | 10.3 | 10.6 | 3% | 3% | 15.7 | 15.8 | 1% | 1% | 12.2 | 11.4 | -6% | -6% | 3.1 | 3.1 | 1% | 1% | 4.9 | 4.9 | 0% | 0% |
| 66 | October | 5.1 | 4.8 | -5% | -5% | 10.2 | 9.9 | -2% | -2% | 15.6 | 15.0 | -4% | -4% | 12.3 | 11.4 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 66 | November | 4.4 | 4.4 | 0% | 0% | 8.8 | 9.2 | 5% | 5% | 13.6 | 13.9 | 3% | 3% | 10.6 | 10.2 | -3% | -3% | 2.6 | 2.6 | 1% | 1% | 4.3 | 4.5 | 5% | 5% |
| 66 | December | 4.0 | 3.9 | -3% | -3% | 8.2 | 8.5 | 4% | 4% | 12.8 | 13.0 | 2% | 2% | 9.7 | 9.3 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.3 | 10% | 10% |
| 67 | January | 3.6 | 3.5 | -2% | -2% | 7.4 | 7.9 | 6% | 6% | 11.7 | 12.1 | 4% | 4% | 8.7 | 8.5 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.1 | 13% | 13% |
| 67 | February | 2.9 | 3.1 | 5% | 5% | 6.3 | 7.2 | 14% | 14% | 10.0 | 11.2 | 12% | 12% | 7.5 | 7.9 | 6% | 6% | 2.0 | 2.0 | 0% | 0% | 3.4 | 3.9 | 12% | 12% |
| 67 | March | 2.8 | 2.8 | -1% | -1% | 6.2 | 6.6 | 5% | 5% | 9.8 | 10.3 | 5% | 5% | 7.2 | 7.3 | 0% | 0% | 1.9 | 1.9 | 0% | 0% | 3.2 | 3.5 | 10% | 10% |
| 67 | April | 9.0 | 8.6 | -4% | -4% | 19.4 | 19.8 | 2% | 2% | 25.8 | 26.1 | 1% | 1% | 20.6 | 27.2 | 32% | 32% | 3.8 | 2.6 | -32% | -18% | 9.9 | 10.0 | 1% | 1% |
| 67 | May | 78.6 | 78.9 | 0% | 0% | 172.6 | 173.5 | 0% | 0% | 208.6 | 208.9 | 0% | 0% | 143.4 | 146.0 | 2% | 2% | 53.9 | 47.0 | -13% | -13% | 90.4 | 89.6 | -1% | -1% |

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| 67 | June | 74.1 | 76.1 | 3% | 3% | 157.8 | 164.0 | 4% | 4% | 197.9 | 204.3 | 3% | 3% | 145.0 | 150.6 | 4% | 4% | 49.5 | 43.6 | -12% | -12% | 83.4 | 83.4 | 0% | 0% |
| 67 | July | 6.9 | 6.7 | -2% | -1% | 13.8 | 14.4 | 4% | 2% | 20.8 | 20.6 | -1% | 0% | 15.8 | 14.2 | -10% | -5% | 3.6 | 3.6 | 1% | 0% | 6.3 | 7.1 | 12% | 3% |
| 67 | August | 5.8 | 5.8 | 0% | 0% | 11.5 | 11.6 | 0% | 0% | 17.5 | 17.0 | -3% | -3% | 13.3 | 12.0 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 67 | September | 5.0 | 5.1 | 1% | 1% | 10.1 | 10.3 | 2% | 2% | 15.4 | 15.3 | 0% | 0% | 12.0 | 11.4 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 67 | October | 4.8 | 4.7 | -3% | -3% | 9.7 | 9.5 | -2% | -2% | 14.9 | 14.4 | -3% | -3% | 11.7 | 10.9 | -7% | -7% | 2.7 | 2.8 | 1% | 1% | 4.5 | 4.5 | -1% | -1% |
| 67 | November | 4.1 | 4.2 | 0% | 0% | 8.4 | 8.6 | 3% | 3% | 13.0 | 13.2 | 2% | 2% | 10.1 | 9.8 | -3% | -3% | 2.4 | 2.5 | 1% | 1% | 4.1 | 4.1 | 2% | 2% |
| 67 | December | 3.8 | 3.7 | -2% | -2% | 7.8 | 8.2 | 5% | 5% | 12.2 | 12.5 | 2% | 2% | 9.3 | 8.9 | -4% | -4% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.2 | 11% | 11% |
| 68 | January | 3.4 | 3.3 | -2% | -2% | 7.1 | 7.4 | 4% | 4% | 11.1 | 11.4 | 3% | 3% | 8.4 | 8.2 | -2% | -2% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.8 | 9% | 9% |
| 68 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.5 | 11% | 11% | 9.2 | 10.3 | 12% | 12% | 6.9 | 7.6 | 10% | 10% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.3 | 0% | 0% |
| 68 | March | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.1 | 2% | 2% | 9.4 | 9.7 | 3% | 3% | 7.0 | 7.0 | 1% | 1% | 1.8 | 1.8 | 1% | 1% | 3.1 | 3.2 | 3% | 3% |
| 68 | April | 8.0 | 7.6 | -4% | -4% | 17.2 | 17.2 | 0% | 0% | 23.2 | 23.2 | 0% | 0% | 19.1 | 25.5 | 33% | 33% | 3.1 | 2.0 | -35% | -16% | 8.8 | 8.5 | -4% | -3% |
| 68 | May | 30.6 | 29.4 | -4% | -3% | 66.8 | 65.7 | -2% | -1% | 78.7 | 77.6 | -1% | -1% | 52.6 | 56.7 | 8% | 6% | 19.7 | 17.1 | -13% | -7% | 34.5 | 34.0 | -1% | -1% |
| 68 | June | 20.0 | 19.6 | -2% | -1% | 42.4 | 43.1 | 2% | 1% | 52.4 | 52.4 | 0% | 0% | 37.1 | 39.5 | 7% | 3% | 12.3 | 11.1 | -10% | -2% | 22.0 | 22.0 | 0% | 0% |
| 68 | July | 6.0 | 5.7 | -5% | -2% | 12.5 | 12.5 | 0% | 0% | 18.2 | 17.6 | -3% | -1% | 13.1 | 12.1 | -8% | -4% | 3.5 | 3.5 | 1% | 0% | 6.0 | 6.3 | 4% | 1% |
| 68 | August | 5.1 | 5.0 | -2% | -2% | 10.6 | 10.5 | 0% | 0% | 15.6 | 15.3 | -2% | -2% | 11.6 | 10.7 | -8% | -8% | 3.2 | 3.2 | 1% | 1% | 5.1 | 5.1 | 0% | 0% |
| 68 | September | 6.2 | 6.1 | -1% | -1% | 12.8 | 12.9 | 1% | 1% | 18.2 | 18.2 | 0% | 0% | 14.5 | 15.5 | 7% | 7% | 3.4 | 3.2 | -6% | -6% | 6.4 | 6.2 | -2% | -2% |
| 68 | October | 5.1 | 4.9 | -5% | -5% | 10.6 | 10.5 | -1% | -1% | 15.4 | 15.2 | -1% | -1% | 11.9 | 11.3 | -5% | -5% | 3.1 | 3.1 | 1% | 1% | 5.2 | 5.2 | 1% | 1% |
| 68 | November | 4.2 | 4.3 | 2% | 2% | 8.9 | 10.1 | 13% | 13% | 13.0 | 14.4 | 11% | 11% | 10.0 | 9.9 | -2% | -2% | 2.8 | 2.8 | 1% | 1% | 4.6 | 5.4 | 19% | 19% |
| 68 | December | 3.8 | 3.8 | 1% | 1% | 8.1 | 8.6 | 6% | 6% | 12.0 | 12.7 | 6% | 6% | 9.2 | 8.9 | -4% | -4% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.5 | 10% | 10% |
| 69 | January | 3.4 | 3.4 | 1% | 1% | 7.4 | 8.3 | 12% | 12% | 10.9 | 12.2 | 12% | 12% | 8.3 | 8.2 | -2% | -2% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.7 | 22% | 22% |
| 69 | February | 2.8 | 3.1 | 12% | 12% | 6.2 | 7.2 | 17% | 17% | 9.1 | 10.8 | 19% | 19% | 6.9 | 7.6 | 11% | 11% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.8 | 8% | 8% |
| 69 | March | 3.2 | 3.0 | -6% | -6% | 7.1 | 7.5 | 6% | 6% | 10.3 | 11.0 | 7% | 7% | 7.7 | 8.0 | 4% | 4% | 2.1 | 2.1 | 1% | 1% | 3.6 | 4.2 | 15% | 15% |
| 69 | April | 46.5 | 47.3 | 2% | 2% | 103.1 | 106.2 | 3% | 3% | 122.8 | 126.2 | 3% | 3% | 82.0 | 91.8 | 12% | 12% | 32.2 | 27.3 | -15% | -15% | 55.8 | 55.3 | -1% | -1% |
| 69 | May | 85.1 | 85.7 | 1% | 1% | 183.4 | 185.3 | 1% | 1% | 226.7 | 228.4 | 1% | 1% | 164.5 | 164.2 | 0% | 0% | 56.2 | 49.3 | -12% | -12% | 94.7 | 94.6 | 0% | 0% |
| 69 | June | 122.1 | 126.7 | 4% | 4% | 260.3 | 271.2 | 4% | 4% | 326.8 | 338.1 | 3% | 3% | 242.3 | 249.1 | 3% | 3% | 82.4 | 72.4 | -12% | -12% | 137.8 | 137.5 | 0% | 0% |
| 69 | July | 7.5 | 7.3 | -2% | -1% | 14.7 | 15.8 | 8% | 3% | 22.1 | 22.3 | 1% | 1% | 16.8 | 15.3 | -9% | -5% | 3.8 | 3.9 | 1% | 0% | 6.7 | 7.9 | 18% | 5% |
| 69 | August | 6.1 | 6.1 | 1% | 1% | 12.2 | 12.2 | 0% | 0% | 18.3 | 17.8 | -3% | -3% | 14.0 | 12.6 | -10% | -10% | 3.4 | 3.5 | 1% | 1% | 5.7 | 5.6 | -1% | -1% |
| 69 | September | 5.2 | 5.2 | 1% | 1% | 10.3 | 10.6 | 3% | 3% | 15.6 | 15.7 | 0% | 0% | 12.2 | 11.4 | -6% | -6% | 3.0 | 3.1 | 0% | 0% | 4.9 | 4.9 | 0% | 0% |
| 69 | October | 4.7 | 4.6 | -1% | -1% | 9.3 | 9.3 | 0% | 0% | 14.5 | 14.1 | -3% | -3% | 11.3 | 10.3 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.3 | -1% | -1% |
| 69 | November | 4.0 | 4.1 | 2% | 2% | 8.1 | 8.5 | 4% | 4% | 12.8 | 13.1 | 2% | 2% | 10.0 | 9.6 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.1 | 2% | 2% |
| 69 | December | 3.8 | 3.7 | -2% | -2% | 7.7 | 7.9 | 3% | 3% | 12.2 | 12.2 | 0% | 0% | 9.3 | 8.8 | -5% | -5% | 2.2 | 2.3 | 1% | 1% | 3.7 | 3.9 | 6% | 6% |
| 70 | January | 3.3 | 3.3 | -2% | -2% | 7.0 | 7.3 | 5% | 5% | 11.1 | 11.4 | 2% | 2% | 8.4 | 8.1 | -3% | -3% | 2.0 | 2.1 | 1% | 1% | 3.5 | 3.8 | 10% | 10% |
| 70 | February | 2.7 | 2.9 | 9% | 9% | 5.8 | 6.8 | 19% | 19% | 9.2 | 10.7 | 16% | 16% | 6.9 | 7.5 | 9% | 9% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.7 | 14% | 14% |
| 70 | March | 2.7 | 2.7 | 0% | 0% | 5.9 | 6.2 | 5% | 5% | 9.4 | 9.8 | 4% | 4% | 6.9 | 6.9 | 0% | 0% | 1.8 | 1.8 | 0% | 0% | 3.1 | 3.3 | 8% | 8% |
| 70 | April | 4.8 | 4.5 | -6% | -5% | 10.1 | 10.3 | 1% | 1% | 14.7 | 14.9 | 2% | 1% | 12.2 | 15.7 | 29% | 22% | 2.3 | 1.9 | -20% | -7% | 5.1 | 5.1 | 2% | 1% |
| 70 | May | 37.6 | 36.7 | -2% | -2% | 83.1 | 82.2 | -1% | -1% | 98.8 | 97.5 | -1% | -1% | 66.3 | 72.2 | 9% | 9% | 24.1 | 20.4 | -15% | -10% | 43.4 | 42.6 | -2% | -1% |
| 70 | June | 54.5 | 56.3 | 3% | 3% | 117.9 | 122.6 | 4% | 4% | 145.3 | 149.8 | 3% | 3% | 103.6 | 107.8 | 4% | 4% | 37.1 | 32.7 | -12% | -9% | 63.0 | 62.8 | 0% | 0% |
| 70 | July | 6.4 | 6.1 | -5% | -2% | 12.9 | 13.0 | 1% | 0% | 19.4 | 18.8 | -3% | -1% | 14.3 | 13.2 | -8% | -4% | 3.4 | 3.4 | 1% | 0% | 6.0 | 6.4 | 6% | 2% |
| 70 | August | 5.6 | 5.4 | -3% | -3% | 11.2 | 11.0 | -2% | -2% | 16.9 | 16.3 | -4% | -4% | 12.9 | 11.8 | -8% | -8% | 3.2 | 3.2 | 1% | 1% | 5.2 | 5.2 | -1% | -1% |
| 70 | September | 4.7 | 4.8 | 2% | 2% | 9.5 | 9.7 | 3% | 3% | 14.5 | 14.6 | 1% | 1% | 11.2 | 10.6 | -6% | -6% | 2.8 | 2.8 | 1% | 1% | 4.6 | 4.6 | 0% | 0% |
| 70 | October | 22.4 | 21.3 | -5% | -5% | 48.4 | 47.8 | -1% | -1% | 59.4 | 58.2 | -2% | -2% | 44.3 | 48.0 | 8% | 8% | 13.2 | 11.3 | -14% | -14% | 24.6 | 24.6 | 0% | 0% |
| 70 | November | 5.5 | 5.5 | -1% | -1% | 11.3 | 12.1 | 7% | 7% | 16.8 | 17.5 | 4% | 4% | 12.5 | 11.8 | -6% | -6% | 3.2 | 3.3 | 1% | 1% | 5.5 | 6.1 | 11% | 11% |
| 70 | December | 4.9 | 4.9 | -1% | -1% | 10.1 | 10.3 | 3% | 3% | 15.2 | 15.3 | 1% | 1% | 11.3 | 10.3 | -9% | -9% | 3.0 | 3.1 | 1% | 1% | 4.8 | 5.1 | 7% | 7% |
| 71 | January | 4.3 | 4.3 | 0% | 0% | 8.9 | 9.3 | 5% | 5% | 13.6 | 13.9 | 3% | 3% | 10.3 | 9.5 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.6 | 8% | 8% |
| 71 | February | 3.5 | 3.8 | 8% | 8% | 7.4 | 8.3 | 12% | 12% | 11.4 | 12.7 | 11% | 11% | 8.8 | 8.8 | 0% | 0% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.2 | 8% | 8% |
| 71 | March | 3.3 | 3.4 | 1% | 1% | 7.2 | 7.5 | 4% | 4% | 11.1 | 11.6 | 5% | 5% | 8.5 | 8.1 | -4% | -4% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.8 | 5% | 5% |
| 71 | April | 19.0 | 18.8 | -1% | -1% | 41.8 | 42.5 | 2% | 2% | 50.5 | 51.1 | 1% | 1% | 36.9 | 44.0 | 19% | 19% | 11.6 | 9.5 | -18% | -18% | 22.2 | 21.8 | -2% | -2% |
| 71 | May | 60.0 | 59.8 | 0% | 0% | 130.7 | 131.2 | 0% | 0% | 160.0 | 159.9 | 0% | 0% | 110.8 | 111.8 | 1% | 1% | 40.7 | 35.8 | -12% | -12% | 68.0 | 67.6 | -1% | -1% |
| 71 | June | 38.9 | 39.4 | 1% | 1% | 82.5 | 85.4 | 4% | 2% | 103.9 | 107.3 | 3% | 2% | 76.4 | 78.8 | 3% | 3% | 25.4 | 22.6 | -11% | -6% | 43.2 | 43.5 | 1% | 0% |
| 71 | July | 6.7 | 6.4 | -3% | -1% | 13.6 | 13.7 | 1% | 0% | 20.3 | 20.0 | -1% | -1% | 15.0 | 13.7 | -9% | -5% | 3.7 | 3.8 | 1% | 0% | 6.5 | 6.8 | 5% | 1% |
| 71 | August | 5.5 | 5.5 | -1% | -1% | 11.4 | 11.3 | 0% | 0% | 17.1 | 16.7 | -3% | -3% | 12.9 | 11.7 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.4 | 5.4 | -1% | -1% |
| 71 | September | 4.8 | 4.9 | 1% | 1% | 9.7 | 10.0 | 2% | 2% | 14.8 | 15.0 | 1% | 1% | 11.4 | 10.8 | -6% | -6% | 3.0 | 3.0 | 0% | 0% | 4.8 | 4.7 | -1% | -1% |
| 71 | October | 4.4 | 4.3 | -1% | -1% | 8.9 | 8.9 | 0% | 0% | 13.7 | 13.6 | -1% | -1% | 10.7 | 9.9 | -8% | -8% | 2.6 | 2.6 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 71 | November | 3.8 | 3.9 | 2% | 2% | 7.8 | 8.0 | 3% | 3% | 12.1 | 12.5 | 3% | 3% | 9.4 | 9.1 | -3% | -3% | 2.3 | 2.4 | 1% | 1% | 3.9 | 3.8 | -1% | -1% |
| 71 | December | 3.5 | 3.5 | 0% | 0% | 7.3 | 7.3 | 0% | 0% | 11.4 | 11.5 | 1% | 1% | 8.7 | 8.3 | -4% | -4% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.6 | -1% | -1% |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 72 | January | 3.1 | 3.1 | 0% | 0% | 6.6 | 6.7 | 1% | 1% | 10.3 | 10.6 | 2% | 2% | 7.9 | 7.8 | -2% | -2% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.3 | -1% | -1% |
| 72 | February | 2.5 | 2.8 | 11% | 11% | 5.5 | 6.1 | 11% | 11% | 8.6 | 9.8 | 14% | 14% | 6.5 | 7.1 | 10% | 10% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.1 | -1% | -1% |
| 72 | March | 2.5 | 2.5 | 1% | 1% | 5.7 | 6.0 | 6% | 6% | 8.8 | 9.5 | 8% | 8% | 6.5 | 6.6 | 2% | 2% | 1.7 | 1.7 | 0% | 0% | 3.0 | 3.3 | 10% | 10% |
| 72 | April | 3.5 | 3.3 | -6% | -3% | 7.7 | 7.6 | -2% | -1% | 11.3 | 11.5 | 2% | 1% | 8.9 | 10.9 | 23% | 13% | 2.0 | 1.8 | -12% | -4% | 4.0 | 3.8 | -4% | -1% |
| 72 | May | 9.4 | 8.6 | -8% | -2% | 20.4 | 19.6 | -4% | -1% | 26.5 | 25.5 | -4% | -1% | 20.5 | 26.3 | 28% | 9% | 3.8 | 2.7 | -30% | -3% | 10.2 | 9.9 | -3% | -1% |
| 72 | June | 4.0 | 3.7 | -7% | -1% | 8.1 | 8.1 | -1% | 0% | 11.5 | 11.6 | 1% | 0% | 8.5 | 8.6 | 1% | 0% | 2.0 | 2.0 | 1% | 0% | 4.0 | 4.0 | 1% | 0% |
| 72 | July | 3.7 | 3.6 | -2% | 0% | 7.8 | 7.7 | -1% | 0% | 10.9 | 11.0 | 1% | 0% | 8.0 | 7.7 | -4% | -1% | 2.3 | 2.3 | 1% | 0% | 3.9 | 3.8 | -2% | 0% |
| 72 | August | 3.3 | 3.3 | 0% | 0% | 7.1 | 7.1 | 0% | 0% | 10.0 | 10.3 | 2% | 2% | 7.4 | 7.2 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.5 | -2% | -2% |
| 72 | September | 13.4 | 13.0 | -3% | -3% | 29.7 | 29.9 | 1% | 1% | 36.2 | 36.3 | 0% | 0% | 26.1 | 32.5 | 24% | 24% | 7.8 | 6.3 | -19% | -19% | 15.7 | 15.5 | -1% | -1% |
| 72 | October | 5.7 | 5.2 | -10% | -10% | 12.0 | 11.7 | -2% | -2% | 16.1 | 15.7 | -2% | -2% | 12.1 | 12.2 | 1% | 1% | 3.1 | 3.0 | -2% | -2% | 5.8 | 6.0 | 4% | 4% |
| 72 | November | 4.5 | 4.5 | 0% | 0% | 9.5 | 10.1 | 7% | 7% | 12.8 | 13.6 | 6% | 6% | 9.5 | 9.2 | -3% | -3% | 3.0 | 3.0 | 1% | 1% | 4.8 | 5.3 | 9% | 9% |
| 72 | December | 4.0 | 4.0 | 0% | 0% | 8.5 | 9.2 | 7% | 7% | 11.8 | 12.6 | 7% | 7% | 8.8 | 8.2 | -6% | -6% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.9 | 13% | 13% |
| 73 | January | 3.5 | 3.5 | 0% | 0% | 7.6 | 8.0 | 5% | 5% | 10.7 | 11.3 | 6% | 6% | 7.9 | 7.6 | -4% | -4% | 2.4 | 2.5 | 1% | 1% | 3.9 | 4.2 | 8% | 8% |
| 73 | February | 2.9 | 3.2 | 12% | 12% | 6.3 | 7.3 | 16% | 16% | 8.9 | 10.5 | 18% | 18% | 6.5 | 7.0 | 9% | 9% | 2.2 | 2.2 | 0% | 0% | 3.6 | 3.9 | 8% | 8% |
| 73 | March | 4.0 | 3.7 | -8% | -8% | 8.5 | 8.3 | -3% | -3% | 11.9 | 11.9 | 0% | 0% | 9.1 | 10.0 | 10% | 10% | 2.4 | 2.3 | -5% | -5% | 4.2 | 4.2 | -1% | -1% |
| 73 | April | 24.5 | 24.3 | -1% | -1% | 53.8 | 54.8 | 2% | 2% | 62.8 | 64.2 | 2% | 2% | 42.6 | 50.3 | 18% | 18% | 15.6 | 13.1 | -16% | -16% | 28.7 | 28.3 | -1% | -1% |
| 73 | May | 52.7 | 52.2 | -1% | -1% | 114.4 | 114.7 | 0% | 0% | 138.9 | 137.5 | -1% | -1% | 94.4 | 95.5 | 1% | 1% | 35.3 | 31.2 | -12% | -11% | 59.3 | 59.2 | 0% | 0% |
| 73 | June | 46.7 | 47.7 | 2% | 2% | 99.7 | 103.2 | 4% | 3% | 124.3 | 128.2 | 3% | 3% | 91.0 | 93.7 | 3% | 3% | 31.1 | 27.6 | -11% | -7% | 52.6 | 52.6 | 0% | 0% |
| 73 | July | 6.9 | 6.7 | -4% | -2% | 14.2 | 14.3 | 1% | 0% | 20.7 | 20.3 | -2% | -1% | 15.5 | 14.1 | -9% | -5% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.0 | 5% | 1% |
| 73 | August | 5.7 | 5.7 | -2% | -2% | 11.8 | 11.7 | -1% | -1% | 17.5 | 17.0 | -3% | -3% | 13.2 | 12.0 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.6 | -1% | -1% |
| 73 | September | 5.1 | 5.1 | -1% | -1% | 10.4 | 10.5 | 1% | 1% | 15.6 | 15.5 | -1% | -1% | 12.1 | 11.4 | -5% | -5% | 3.1 | 3.2 | 1% | 1% | 5.1 | 5.0 | -1% | -1% |
| 73 | October | 4.6 | 4.6 | -1% | -1% | 9.4 | 9.4 | 0% | 0% | 14.4 | 14.1 | -2% | -2% | 11.2 | 10.3 | -8% | -8% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.5 | -1% | -1% |
| 73 | November | 4.0 | 4.1 | 1% | 1% | 8.2 | 8.4 | 3% | 3% | 12.6 | 12.9 | 2% | 2% | 9.7 | 9.4 | -3% | -3% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.1 | 0% | 0% |
| 73 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 7.8 | 2% | 2% | 11.8 | 12.1 | 2% | 2% | 9.1 | 8.6 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.8 | 3.9 | 4% | 4% |
| 74 | January | 3.2 | 3.2 | 0% | 0% | 6.9 | 7.1 | 2% | 2% | 10.8 | 11.0 | 2% | 2% | 8.2 | 8.0 | -3% | -3% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.6 | 2% | 2% |
| 74 | February | 2.6 | 2.9 | 10% | 10% | 5.8 | 6.9 | 19% | 19% | 8.9 | 10.6 | 18% | 18% | 6.8 | 7.4 | 9% | 9% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.7 | 14% | 14% |
| 74 | March | 2.6 | 2.7 | 1% | 1% | 5.9 | 6.0 | 2% | 2% | 9.1 | 9.5 | 4% | 4% | 6.7 | 6.8 | 1% | 1% | 1.8 | 1.8 | 1% | 1% | 3.1 | 3.1 | 2% | 2% |
| 74 | April | 6.3 | 6.0 | -5% | -4% | 13.6 | 14.1 | 3% | 2% | 18.8 | 19.3 | 3% | 2% | 16.2 | 21.3 | 32% | 32% | 2.8 | 1.9 | -30% | -13% | 6.8 | 7.1 | 4% | 2% |
| 74 | May | 24.8 | 23.6 | -5% | -3% | 54.0 | 52.9 | -2% | -1% | 63.2 | 62.2 | -2% | -1% | 43.0 | 47.9 | 11% | 7% | 14.9 | 12.7 | -15% | -6% | 27.6 | 27.2 | -2% | -1% |
| 74 | June | 15.5 | 15.1 | -3% | -1% | 32.8 | 33.1 | 1% | 0% | 40.0 | 40.0 | 0% | 0% | 28.8 | 31.1 | 8% | 3% | 9.1 | 8.2 | -10% | -2% | 16.8 | 16.8 | 0% | 0% |
| 74 | July | 5.7 | 5.4 | -5% | -2% | 11.9 | 11.9 | -1% | 0% | 17.1 | 16.5 | -4% | -1% | 12.4 | 11.3 | -9% | -4% | 3.4 | 3.5 | 2% | 0% | 5.8 | 5.9 | 3% | 1% |
| 74 | August | 4.8 | 4.9 | 1% | 1% | 10.1 | 10.2 | 1% | 1% | 14.7 | 14.6 | -1% | -1% | 10.9 | 10.0 | -9% | -9% | 3.1 | 3.2 | 1% | 1% | 4.9 | 4.9 | 0% | 0% |
| 74 | September | 4.3 | 4.3 | 1% | 1% | 8.8 | 9.0 | 2% | 2% | 13.0 | 13.3 | 2% | 2% | 9.7 | 9.2 | -5% | -5% | 2.8 | 2.8 | 1% | 1% | 4.4 | 4.4 | -1% | -1% |
| 74 | October | 8.2 | 7.7 | -5% | -5% | 17.4 | 17.0 | -2% | -2% | 23.4 | 22.8 | -2% | -2% | 19.0 | 21.6 | 14% | 14% | 3.7 | 3.1 | -18% | -18% | 8.5 | 8.4 | -1% | -1% |
| 74 | November | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.9 | 4% | 4% | 13.6 | 14.1 | 4% | 4% | 10.3 | 9.9 | -4% | -4% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.1 | 3% | 3% |
| 74 | December | 4.0 | 4.0 | 0% | 0% | 8.7 | 8.9 | 2% | 2% | 12.4 | 12.8 | 3% | 3% | 9.3 | 8.6 | -7% | -7% | 2.8 | 2.8 | 1% | 1% | 4.4 | 4.6 | 3% | 3% |
| 75 | January | 3.6 | 3.6 | 1% | 1% | 7.8 | 8.3 | 6% | 6% | 11.2 | 12.0 | 7% | 7% | 8.4 | 8.0 | -5% | -5% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.4 | 11% | 11% |
| 75 | February | 3.0 | 3.2 | 8% | 8% | 6.6 | 7.4 | 13% | 13% | 9.6 | 11.0 | 14% | 14% | 7.1 | 7.4 | 4% | 4% | 2.3 | 2.3 | 0% | 0% | 3.7 | 4.0 | 7% | 7% |
| 75 | March | 2.9 | 2.9 | 1% | 1% | 6.5 | 6.9 | 5% | 5% | 9.5 | 10.2 | 7% | 7% | 6.9 | 6.8 | -1% | -1% | 2.1 | 2.1 | 0% | 0% | 3.4 | 3.7 | 8% | 8% |
| 75 | April | 24.6 | 24.5 | 0% | 0% | 54.2 | 55.3 | 2% | 2% | 63.8 | 65.4 | 3% | 3% | 43.7 | 52.0 | 19% | 19% | 16.1 | 13.3 | -17% | -17% | 29.0 | 28.5 | -2% | -2% |
| 75 | May | 62.6 | 62.6 | 0% | 0% | 136.4 | 137.4 | 1% | 1% | 166.4 | 166.2 | 0% | 0% | 114.3 | 115.4 | 1% | 1% | 42.3 | 37.2 | -12% | -12% | 71.0 | 70.9 | 0% | 0% |
| 75 | June | 36.4 | 36.6 | 1% | 1% | 76.9 | 79.4 | 3% | 2% | 96.5 | 99.4 | 3% | 2% | 71.1 | 73.3 | 3% | 3% | 23.4 | 20.9 | -11% | -5% | 40.1 | 40.5 | 1% | 1% |
| 75 | July | 6.6 | 6.4 | -3% | -2% | 13.5 | 13.6 | 1% | 0% | 20.0 | 19.7 | -2% | -1% | 14.9 | 13.4 | -10% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 6.7 | 5% | 2% |
| 75 | August | 5.5 | 5.5 | -1% | -1% | 11.3 | 11.2 | 0% | 0% | 16.9 | 16.5 | -3% | -3% | 12.8 | 11.5 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 75 | September | 7.6 | 7.4 | -2% | -2% | 15.6 | 15.8 | 1% | 1% | 22.1 | 21.8 | -1% | -1% | 17.9 | 19.3 | 8% | 8% | 3.7 | 3.3 | -10% | -10% | 7.7 | 7.6 | -1% | -1% |
| 75 | October | 5.2 | 5.0 | -4% | -4% | 10.7 | 10.6 | -1% | -1% | 16.0 | 15.5 | -3% | -3% | 12.2 | 11.1 | -9% | -9% | 3.1 | 3.1 | 1% | 1% | 5.1 | 5.2 | 1% | 1% |
| 75 | November | 4.4 | 4.5 | 2% | 2% | 9.0 | 9.6 | 6% | 6% | 13.6 | 14.2 | 4% | 4% | 10.4 | 9.8 | -6% | -6% | 2.8 | 2.9 | 1% | 1% | 4.6 | 4.8 | 5% | 5% |
| 75 | December | 4.0 | 4.0 | -1% | -1% | 8.4 | 8.8 | 5% | 5% | 12.7 | 13.2 | 4% | 4% | 9.7 | 9.0 | -7% | -7% | 2.5 | 2.6 | 1% | 1% | 4.1 | 4.5 | 11% | 11% |
| 76 | January | 3.5 | 3.5 | 0% | 0% | 7.5 | 7.6 | 1% | 1% | 11.5 | 11.7 | 2% | 2% | 8.7 | 8.3 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.8 | 3.8 | 1% | 1% |
| 76 | February | 2.8 | 3.2 | 12% | 12% | 6.2 | 7.2 | 16% | 16% | 9.5 | 11.1 | 17% | 17% | 7.2 | 7.7 | 7% | 7% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.7 | 8% | 8% |
| 76 | March | 3.2 | 3.0 | -6% | -6% | 7.0 | 6.9 | -1% | -1% | 10.5 | 10.7 | 2% | 2% | 8.0 | 8.0 | 0% | 0% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.6 | 1% | 1% |
| 76 | April | 21.8 | 21.6 | -1% | -1% | 48.3 | 49.0 | 2% | 2% | 57.5 | 58.5 | 2% | 2% | 40.6 | 49.0 | 21% | 21% | 13.6 | 11.1 | -18% | -18% | 25.8 | 25.4 | -2% | -2% |
| 76 | May | 55.6 | 55.2 | -1% | -1% | 121.0 | 121.4 | 0% | 0% | 147.7 | 146.8 | -1% | -1% | 101.5 | 102.7 | 1% | 1% | 37.3 | 32.8 | -12% | -12% | 62.8 | 62.6 | 0% | 0% |
| 76 | June | 50.5 | 51.7 | 2% | 2% | 107.8 | 112.0 | 4% | 4% | 135.0 | 140.0 | 4% | 4% | 99.0 | 101.7 | 3% | 3% | 33.6 | 29.8 | -11% | -8% | 56.9 | 57.2 | 0% | 0% |
| 76 | July | 6.8 | 6.6 | -3% | -2% | 13.9 | 14.2 | 2% | 1% | 20.6 | 20.5 | -1% | 0% | 15.4 | 13.9 | -9% | -5% | 3.8 | 3.8 | 1% | 0% | 6.5 | 7.0 | 7% | 2% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 76 | August | 5.7 | 5.6 | -2% | -2% | 11.6 | 11.5 | -1% | -1% | 17.4 | 16.9 | -3% | -3% | 13.2 | 11.8 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 76 | September | 4.8 | 5.0 | 3% | 3% | 9.8 | 10.1 | 3% | 3% | 14.9 | 15.1 | 1% | 1% | 11.5 | 10.7 | -7% | -7% | 3.0 | 3.0 | 0% | 0% | 4.8 | 4.7 | -1% | -1% |
| 76 | October | 6.8 | 6.4 | -6% | -6% | 14.0 | 13.6 | -3% | -3% | 20.1 | 19.3 | -4% | -4% | 16.4 | 17.1 | 5% | 5% | 3.3 | 2.9 | -10% | -10% | 6.6 | 6.5 | -1% | -1% |
| 76 | November | 5.0 | 4.8 | -3% | -3% | 10.1 | 10.8 | 7% | 7% | 15.0 | 15.7 | 5% | 5% | 11.7 | 11.2 | -4% | -4% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.6 | 13% | 13% |
| 76 | December | 4.4 | 4.3 | -3% | -3% | 9.0 | 9.4 | 4% | 4% | 13.6 | 13.9 | 2% | 2% | 10.4 | 9.7 | -7% | -7% | 2.6 | 2.7 | 1% | 1% | 4.4 | 4.8 | 9% | 9% |
| 77 | January | 3.8 | 3.8 | -2% | -2% | 8.0 | 8.5 | 5% | 5% | 12.2 | 12.7 | 4% | 4% | 9.3 | 8.8 | -5% | -5% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.4 | 11% | 11% |
| 77 | February | 3.1 | 3.4 | 10% | 10% | 6.6 | 7.9 | 19% | 19% | 10.0 | 11.9 | 19% | 19% | 7.6 | 8.1 | 7% | 7% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.2 | 14% | 14% |
| 77 | March | 3.0 | 3.1 | 0% | 0% | 6.7 | 7.1 | 6% | 6% | 10.2 | 10.8 | 6% | 6% | 7.7 | 7.5 | -2% | -2% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.8 | 9% | 9% |
| 77 | April | 11.9 | 11.4 | -4% | -4% | 26.2 | 26.6 | 2% | 2% | 33.1 | 33.4 | 1% | 1% | 25.0 | 32.0 | 28% | 28% | 6.2 | 4.7 | -23% | -21% | 13.7 | 13.8 | 0% | 0% |
| 77 | May | 83.7 | 84.1 | 0% | 0% | 182.9 | 184.2 | 1% | 1% | 221.7 | 222.9 | 1% | 1% | 153.3 | 154.8 | 1% | 1% | 57.3 | 50.2 | -12% | -12% | 95.6 | 95.0 | -1% | -1% |
| 77 | June | 112.5 | 116.7 | 4% | 4% | 240.4 | 250.7 | 4% | 4% | 301.0 | 312.1 | 4% | 4% | 221.8 | 224.6 | 1% | 1% | 76.2 | 66.9 | -12% | -12% | 127.4 | 127.5 | 0% | 0% |
| 77 | July | 10.2 | 9.5 | -6% | -4% | 20.3 | 20.8 | 2% | 1% | 29.0 | 28.4 | -2% | -1% | 23.3 | 22.4 | -4% | -3% | 4.8 | 4.5 | -5% | -2% | 9.5 | 10.4 | 10% | 4% |
| 77 | August | 6.7 | 6.6 | -1% | -1% | 13.6 | 13.5 | 0% | 0% | 20.0 | 19.4 | -3% | -3% | 15.2 | 13.7 | -10% | -10% | 3.9 | 3.9 | 1% | 1% | 6.4 | 6.4 | 0% | 0% |
| 77 | September | 8.4 | 8.2 | -3% | -3% | 17.4 | 17.6 | 1% | 1% | 24.4 | 24.0 | -1% | -1% | 20.1 | 21.1 | 5% | 5% | 4.3 | 3.9 | -9% | -9% | 8.6 | 8.5 | -1% | -1% |
| 77 | October | 32.0 | 30.5 | -5% | -5% | 67.4 | 66.7 | -1% | -1% | 84.4 | 82.8 | -2% | -2% | 60.5 | 61.8 | 2% | 2% | 19.8 | 17.6 | -11% | -11% | 33.9 | 34.0 | 1% | 1% |
| 77 | November | 6.5 | 6.5 | 0% | 0% | 13.5 | 14.4 | 7% | 7% | 19.8 | 20.5 | 4% | 4% | 14.4 | 13.6 | -6% | -6% | 4.1 | 4.1 | 1% | 1% | 6.8 | 7.4 | 9% | 9% |
| 77 | December | 5.6 | 5.6 | -1% | -1% | 11.7 | 12.2 | 4% | 4% | 17.5 | 17.6 | 0% | 0% | 13.0 | 11.9 | -8% | -8% | 3.6 | 3.6 | 0% | 0% | 5.7 | 6.2 | 8% | 8% |
| 78 | January | 4.9 | 4.9 | 0% | 0% | 10.2 | 10.6 | 3% | 3% | 15.5 | 15.6 | 1% | 1% | 11.7 | 10.7 | -9% | -9% | 3.2 | 3.2 | 1% | 1% | 5.0 | 5.3 | 6% | 6% |
| 78 | February | 4.0 | 4.4 | 11% | 11% | 8.3 | 9.7 | 17% | 17% | 12.8 | 14.5 | 13% | 13% | 9.7 | 9.8 | 2% | 2% | 2.8 | 2.8 | 0% | 0% | 4.5 | 4.9 | 10% | 10% |
| 78 | March | 3.9 | 4.0 | 1% | 1% | 8.2 | 8.8 | 7% | 7% | 12.8 | 13.4 | 4% | 4% | 9.7 | 9.1 | -6% | -6% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.5 | 12% | 12% |
| 78 | April | 6.9 | 6.7 | -3% | -3% | 14.5 | 14.7 | 1% | 1% | 20.3 | 20.5 | 1% | 1% | 16.8 | 19.9 | 18% | 18% | 3.2 | 2.6 | -18% | -8% | 7.2 | 7.2 | -1% | -1% |
| 78 | May | 68.2 | 68.2 | 0% | 0% | 150.0 | 150.3 | 0% | 0% | 182.3 | 181.9 | 0% | 0% | 126.0 | 128.9 | 2% | 2% | 46.7 | 40.6 | -13% | -13% | 78.6 | 77.7 | -1% | -1% |
| 78 | June | 76.3 | 78.7 | 3% | 3% | 163.3 | 169.9 | 4% | 4% | 204.9 | 212.2 | 4% | 4% | 149.6 | 152.8 | 2% | 2% | 51.6 | 45.5 | -12% | -12% | 86.6 | 86.6 | 0% | 0% |
| 78 | July | 19.0 | 18.0 | -5% | -5% | 38.8 | 38.8 | 0% | 0% | 51.5 | 50.5 | -2% | -2% | 39.3 | 38.7 | -2% | -2% | 10.5 | 9.6 | -9% | -7% | 18.9 | 19.4 | 3% | 3% |
| 78 | August | 6.9 | 6.8 | -2% | -2% | 14.3 | 14.3 | 0% | 0% | 21.2 | 20.7 | -2% | -2% | 15.8 | 14.3 | -9% | -9% | 4.1 | 4.1 | 1% | 1% | 6.9 | 7.0 | 1% | 1% |
| 78 | September | 5.9 | 6.0 | 0% | 0% | 12.2 | 12.4 | 2% | 2% | 18.1 | 18.2 | 1% | 1% | 13.6 | 12.9 | -5% | -5% | 3.7 | 3.7 | 1% | 1% | 6.0 | 6.0 | -1% | -1% |
| 78 | October | 6.4 | 6.1 | -5% | -5% | 13.1 | 12.8 | -2% | -2% | 19.2 | 18.5 | -3% | -3% | 14.9 | 14.5 | -3% | -3% | 3.6 | 3.5 | -1% | -1% | 6.2 | 6.2 | -1% | -1% |
| 78 | November | 5.2 | 5.1 | 0% | 0% | 10.5 | 11.3 | 8% | 8% | 15.8 | 16.5 | 5% | 5% | 12.1 | 11.6 | -4% | -4% | 3.2 | 3.2 | 0% | 0% | 5.2 | 5.8 | 11% | 11% |
| 78 | December | 4.6 | 4.6 | -2% | -2% | 9.5 | 9.9 | 4% | 4% | 14.5 | 14.7 | 2% | 2% | 11.1 | 10.4 | -6% | -6% | 2.8 | 2.8 | 1% | 1% | 4.6 | 5.0 | 8% | 8% |
| 79 | January | 4.1 | 4.1 | -1% | -1% | 8.5 | 8.6 | 1% | 1% | 13.1 | 13.2 | 0% | 0% | 9.9 | 9.5 | -5% | -5% | 2.5 | 2.6 | 1% | 1% | 4.2 | 4.2 | 2% | 2% |
| 79 | February | 3.4 | 3.6 | 6% | 6% | 7.3 | 8.0 | 10% | 10% | 11.2 | 12.3 | 10% | 10% | 8.4 | 8.7 | 4% | 4% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.1 | 5% | 5% |
| 79 | March | 3.3 | 3.3 | 0% | 0% | 7.1 | 7.5 | 5% | 5% | 11.0 | 11.6 | 5% | 5% | 8.3 | 8.1 | -2% | -2% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.0 | 9% | 9% |
| 79 | April | 9.0 | 8.6 | -5% | -5% | 19.3 | 19.4 | 1% | 1% | 25.6 | 25.7 | 0% | 0% | 20.5 | 26.2 | 28% | 28% | 3.9 | 2.8 | -28% | -16% | 9.8 | 9.7 | -1% | -1% |
| 79 | May | 69.3 | 69.3 | 0% | 0% | 152.2 | 153.1 | 1% | 1% | 183.9 | 184.0 | 0% | 0% | 125.6 | 128.3 | 2% | 2% | 47.6 | 41.6 | -13% | -13% | 79.8 | 79.4 | 0% | 0% |
| 79 | June | 78.3 | 80.7 | 3% | 3% | 167.4 | 174.3 | 4% | 4% | 209.6 | 217.3 | 4% | 4% | 153.2 | 157.2 | 3% | 3% | 52.8 | 46.6 | -12% | -12% | 88.7 | 88.9 | 0% | 0% |
| 79 | July | 11.8 | 11.1 | -5% | -4% | 23.6 | 23.7 | 0% | 0% | 32.7 | 31.8 | -3% | -2% | 26.1 | 25.5 | -2% | -2% | 5.6 | 5.2 | -6% | -3% | 11.1 | 11.7 | 5% | 3% |
| 79 | August | 6.8 | 6.6 | -2% | -2% | 13.8 | 13.7 | -1% | -1% | 20.3 | 19.7 | -3% | -3% | 15.3 | 13.9 | -9% | -9% | 4.0 | 4.0 | 1% | 1% | 6.6 | 6.6 | 0% | 0% |
| 79 | September | 7.0 | 6.9 | -2% | -2% | 14.4 | 14.5 | 1% | 1% | 20.7 | 20.5 | -1% | -1% | 16.1 | 16.4 | 1% | 1% | 4.0 | 3.9 | -3% | -3% | 7.1 | 7.1 | -1% | -1% |
| 79 | October | 9.3 | 8.6 | -7% | -7% | 19.4 | 19.0 | -2% | -2% | 26.7 | 25.5 | -4% | -4% | 21.9 | 22.5 | 3% | 3% | 4.6 | 4.2 | -9% | -9% | 9.4 | 9.5 | 1% | 1% |
| 79 | November | 5.8 | 5.8 | -2% | -2% | 12.0 | 12.7 | 6% | 6% | 17.5 | 18.1 | 3% | 3% | 13.1 | 12.4 | -5% | -5% | 3.7 | 3.8 | 1% | 1% | 6.0 | 6.5 | 9% | 9% |
| 79 | December | 5.2 | 5.2 | -1% | -1% | 10.8 | 11.0 | 2% | 2% | 16.0 | 16.1 | 1% | 1% | 11.8 | 11.0 | -7% | -7% | 3.4 | 3.4 | 0% | 0% | 5.3 | 5.5 | 4% | 4% |
| 80 | January | 4.6 | 4.6 | -1% | -1% | 9.6 | 9.5 | -1% | -1% | 14.4 | 14.3 | -1% | -1% | 10.8 | 10.1 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.7 | 4.7 | -1% | -1% |
| 80 | February | 3.7 | 4.1 | 9% | 9% | 7.8 | 8.8 | 13% | 13% | 11.8 | 13.3 | 13% | 13% | 8.8 | 9.3 | 5% | 5% | 2.7 | 2.7 | 0% | 0% | 4.3 | 4.5 | 4% | 4% |
| 80 | March | 3.6 | 3.6 | -1% | -1% | 7.9 | 8.0 | 2% | 2% | 11.9 | 12.3 | 3% | 3% | 8.9 | 8.6 | -3% | -3% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.1 | 4% | 4% |
| 80 | April | 16.3 | 15.9 | -2% | -2% | 35.7 | 35.9 | 1% | 1% | 43.8 | 43.7 | 0% | 0% | 31.8 | 38.8 | 22% | 22% | 9.6 | 7.9 | -18% | -18% | 18.9 | 18.3 | -3% | -3% |
| 80 | May | 35.0 | 33.9 | -3% | -3% | 75.5 | 74.8 | -1% | -1% | 92.0 | 90.8 | -1% | -1% | 61.4 | 63.3 | 3% | 3% | 22.9 | 20.3 | -11% | -7% | 38.7 | 38.5 | -1% | 0% |
| 80 | June | 8.2 | 7.8 | -5% | -1% | 17.3 | 17.4 | 1% | 0% | 23.9 | 23.7 | -1% | 0% | 18.2 | 18.9 | 4% | 1% | 4.4 | 4.2 | -4% | 0% | 8.7 | 8.8 | 1% | 0% |
| 80 | July | 6.0 | 5.8 | -4% | -1% | 12.6 | 12.5 | -1% | 0% | 18.2 | 17.7 | -3% | -1% | 13.4 | 12.4 | -8% | -4% | 3.8 | 3.8 | 1% | 0% | 6.2 | 6.2 | 0% | 0% |
| 80 | August | 5.2 | 5.1 | -1% | -1% | 10.7 | 10.7 | 0% | 0% | 15.8 | 15.6 | -1% | -1% | 11.8 | 10.9 | -8% | -8% | 3.3 | 3.3 | 1% | 1% | 5.2 | 5.2 | 0% | 0% |
| 80 | September | 28.2 | 28.3 | 0% | 0% | 61.2 | 62.9 | 3% | 3% | 74.8 | 76.2 | 2% | 2% | 53.0 | 58.2 | 10% | 10% | 18.4 | 16.0 | -13% | -13% | 32.5 | 32.4 | 0% | 0% |
| 80 | October | 12.7 | 12.0 | -6% | -6% | 26.5 | 26.4 | 0% | 0% | 34.3 | 33.8 | -2% | -2% | 26.3 | 26.7 | 2% | 2% | 6.8 | 6.2 | -9% | -9% | 12.9 | 13.4 | 3% | 3% |
| 80 | November | 6.0 | 6.0 | 0% | 0% | 12.6 | 13.1 | 4% | 4% | 18.1 | 18.7 | 3% | 3% | 13.3 | 12.6 | -5% | -5% | 3.9 | 3.9 | 1% | 1% | 6.4 | 6.7 | 4% | 4% |
| 80 | December | 5.2 | 5.2 | 0% | 0% | 11.0 | 11.2 | 1% | 1% | 16.2 | 16.3 | 1% | 1% | 12.0 | 11.1 | -8% | -8% | 3.5 | 3.5 | 1% | 1% | 5.5 | 5.5 | 1% | 1% |
| 81 | January | 4.6 | 4.7 | 2% | 2% | 9.7 | 10.2 | 5% | 5% | 14.4 | 15.0 | 4% | 4% | 10.9 | 10.1 | -7% | -7% | 3.1 | 3.1 | 1% | 1% | 4.9 | 5.2 | 7% | 7% |
| 81 | February | 3.7 | 4.1 | 13% | 13% | 7.9 | 9.6 | 22% | 22% | 11.7 | 14.2 | 21% | 21% | 9.0 | 9.4 | 4% | 4% | 2.7 | 2.8 | 1% | 1% | 4.4 | 5.2 | 18% | 18% |

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| 81 | March | 16.2 | 15.4 | -5% | -5% | 35.5 | 34.9 | -2% | -2% | 43.5 | 42.6 | -2% | -2% | 32.4 | 37.0 | 14% | 14% | 9.3 | 7.8 | -16% | -16% | 18.2 | 18.0 | -1% | -1% |
| 81 | April | 32.5 | 32.6 | 0% | 0% | 70.1 | 72.1 | 3% | 3% | 86.1 | 88.1 | 2% | 2% | 58.3 | 61.8 | 6% | 6% | 22.1 | 19.7 | -11% | -11% | 37.2 | 37.2 | 0% | 0% |
| 81 | May | 56.3 | 56.2 | 0% | 0% | 122.1 | 122.6 | 0% | 0% | 151.7 | 152.4 | 0% | 0% | 109.3 | 109.0 | 0% | 0% | 37.8 | 33.5 | -11% | -11% | 63.2 | 63.0 | 0% | 0% |
| 81 | June | 39.4 | 39.8 | 1% | 1% | 83.6 | 86.2 | 3% | 2% | 106.1 | 109.0 | 3% | 2% | 78.2 | 79.8 | 2% | 2% | 25.8 | 23.2 | -10% | -5% | 43.8 | 43.9 | 0% | 0% |
| 81 | July | 7.2 | 7.0 | -2% | -1% | 15.0 | 15.3 | 2% | 1% | 21.9 | 22.1 | 1% | 0% | 16.2 | 14.8 | -9% | -5% | 4.2 | 4.3 | 1% | 0% | 7.3 | 7.7 | 6% | 2% |
| 81 | August | 6.0 | 5.9 | -1% | -1% | 12.5 | 12.4 | -1% | -1% | 18.5 | 18.1 | -2% | -2% | 13.7 | 12.6 | -9% | -9% | 3.7 | 3.7 | 1% | 1% | 6.1 | 6.0 | -1% | -1% |
| 81 | September | 16.4 | 16.0 | -2% | -2% | 35.1 | 35.6 | 1% | 1% | 44.3 | 44.7 | 1% | 1% | 34.8 | 38.0 | 9% | 9% | 9.4 | 8.2 | -13% | -13% | 18.2 | 18.1 | 0% | 0% |
| 81 | October | 6.3 | 6.1 | -4% | -4% | 13.1 | 13.1 | 0% | 0% | 19.2 | 18.9 | -1% | -1% | 14.1 | 12.9 | -8% | -8% | 3.8 | 3.9 | 1% | 1% | 6.4 | 6.6 | 3% | 3% |
| 81 | November | 5.2 | 5.3 | 3% | 3% | 10.8 | 11.3 | 5% | 5% | 16.0 | 16.6 | 4% | 4% | 11.8 | 11.2 | -5% | -5% | 3.5 | 3.5 | 1% | 1% | 5.5 | 5.6 | 4% | 4% |
| 81 | December | 4.8 | 4.8 | 0% | 0% | 9.9 | 9.9 | 0% | 0% | 14.9 | 14.9 | 0% | 0% | 11.1 | 10.3 | -8% | -8% | 3.1 | 3.1 | 1% | 1% | 4.8 | 4.8 | -2% | -2% |
| 82 | January | 4.2 | 4.2 | 0% | 0% | 8.8 | 9.0 | 2% | 2% | 13.4 | 13.7 | 2% | 2% | 10.1 | 9.5 | -7% | -7% | 2.7 | 2.7 | 0% | 0% | 4.4 | 4.5 | 3% | 3% |
| 82 | February | 3.4 | 3.8 | 12% | 12% | 7.2 | 8.1 | 14% | 14% | 11.0 | 12.6 | 14% | 14% | 8.3 | 8.7 | 6% | 6% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.1 | 3% | 3% |
| 82 | March | 3.3 | 3.4 | 2% | 2% | 7.3 | 7.6 | 4% | 4% | 11.2 | 11.7 | 5% | 5% | 8.4 | 8.1 | -3% | -3% | 2.3 | 2.3 | 1% | 1% | 3.7 | 3.9 | 5% | 5% |
| 82 | April | 12.5 | 12.1 | -3% | -3% | 27.5 | 27.4 | 0% | 0% | 34.7 | 34.5 | 0% | 0% | 26.2 | 32.8 | 25% | 25% | 6.7 | 5.3 | -21% | -21% | 14.4 | 13.9 | -4% | -4% |
| 82 | May | 22.8 | 21.7 | -5% | -3% | 49.0 | 48.1 | -2% | -1% | 58.7 | 57.8 | -2% | -1% | 40.3 | 42.7 | 6% | 4% | 14.2 | 12.6 | -11% | -4% | 24.9 | 24.7 | -1% | 0% |
| 82 | June | 5.6 | 5.5 | -2% | 0% | 11.7 | 12.0 | 2% | 0% | 16.8 | 17.0 | 1% | 0% | 12.0 | 11.5 | -4% | -1% | 3.4 | 3.5 | 0% | 0% | 5.9 | 6.1 | 3% | 0% |
| 82 | July | 4.9 | 4.8 | -1% | 0% | 10.2 | 10.2 | 0% | 0% | 14.9 | 14.9 | 0% | 0% | 10.9 | 10.1 | -8% | -3% | 3.2 | 3.2 | 1% | 0% | 5.0 | 5.0 | -1% | 0% |
| 82 | August | 4.2 | 4.3 | 2% | 2% | 9.0 | 9.1 | 1% | 1% | 13.3 | 13.5 | 2% | 2% | 10.0 | 9.2 | -7% | -7% | 2.8 | 2.9 | 1% | 1% | 4.5 | 4.5 | -1% | -1% |
| 82 | September | 3.6 | 3.8 | 4% | 4% | 7.7 | 8.1 | 4% | 4% | 11.5 | 12.2 | 6% | 6% | 8.8 | 8.5 | -3% | -3% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.0 | -1% | -1% |
| 82 | October | 3.3 | 3.4 | 2% | 2% | 7.3 | 7.3 | 1% | 1% | 10.9 | 11.2 | 3% | 3% | 8.2 | 7.9 | -4% | -4% | 2.3 | 2.3 | 1% | 1% | 3.8 | 3.7 | -2% | -2% |
| 82 | November | 2.9 | 3.1 | 5% | 5% | 6.5 | 6.8 | 5% | 5% | 9.7 | 10.4 | 7% | 7% | 7.2 | 7.4 | 2% | 2% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.5 | 0% | 0% |
| 82 | December | 2.8 | 2.8 | 1% | 1% | 6.2 | 6.5 | 4% | 4% | 9.3 | 9.8 | 6% | 6% | 6.7 | 6.8 | 1% | 1% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.4 | 5% | 5% |
| 83 | January | 2.5 | 2.6 | 1% | 1% | 5.8 | 6.1 | 6% | 6% | 8.6 | 9.3 | 8% | 8% | 6.1 | 6.3 | 3% | 3% | 1.8 | 1.8 | 1% | 1% | 3.1 | 3.3 | 8% | 8% |
| 83 | February | 2.2 | 2.4 | 8% | 8% | 5.1 | 5.6 | 9% | 9% | 7.5 | 8.5 | 14% | 14% | 5.1 | 5.8 | 13% | 13% | 1.7 | 1.7 | 1% | 1% | 2.9 | 3.0 | 1% | 1% |
| 83 | March | 2.2 | 2.2 | 1% | 1% | 5.1 | 5.3 | 4% | 4% | 7.5 | 8.2 | 9% | 9% | 5.0 | 5.4 | 7% | 7% | 1.6 | 1.6 | 1% | 1% | 2.8 | 2.9 | 5% | 5% |
| 83 | April | 20.1 | 20.1 | 0% | 0% | 44.8 | 45.7 | 2% | 2% | 53.2 | 54.0 | 2% | 2% | 36.5 | 46.3 | 27% | 27% | 12.0 | 9.4 | -22% | -22% | 23.9 | 23.5 | -2% | -2% |
| 83 | May | 37.0 | 35.8 | -3% | -3% | 79.9 | 79.4 | -1% | -1% | 95.3 | 94.6 | -1% | -1% | 63.4 | 65.7 | 4% | 4% | 23.8 | 20.9 | -12% | -8% | 41.1 | 41.0 | 0% | 0% |
| 83 | June | 16.2 | 15.9 | -2% | -1% | 33.9 | 34.6 | 2% | 1% | 42.3 | 42.0 | -1% | 0% | 31.9 | 33.8 | 6% | 2% | 9.3 | 8.4 | -10% | -2% | 17.3 | 17.5 | 1% | 0% |
| 83 | July | 5.9 | 5.6 | -5% | -2% | 12.2 | 12.2 | 0% | 0% | 17.6 | 16.9 | -4% | -2% | 13.2 | 12.1 | -9% | -4% | 3.4 | 3.5 | 1% | 0% | 5.9 | 6.1 | 3% | 1% |
| 83 | August | 5.0 | 5.0 | -1% | -1% | 10.3 | 10.3 | 0% | 0% | 15.2 | 14.9 | -2% | -2% | 11.6 | 10.6 | -9% | -9% | 3.1 | 3.1 | 1% | 1% | 5.0 | 5.0 | 1% | 1% |
| 83 | September | 4.2 | 4.4 | 4% | 4% | 8.8 | 9.1 | 4% | 4% | 13.2 | 13.6 | 3% | 3% | 10.2 | 9.7 | -5% | -5% | 2.8 | 2.8 | 1% | 1% | 4.4 | 4.4 | -1% | -1% |
| 83 | October | 3.9 | 4.0 | 2% | 2% | 8.1 | 8.2 | 1% | 1% | 12.2 | 12.4 | 1% | 1% | 9.6 | 8.9 | -7% | -7% | 2.4 | 2.5 | 1% | 1% | 4.0 | 3.9 | -1% | -1% |
| 83 | November | 3.3 | 3.5 | 7% | 7% | 7.0 | 7.9 | 13% | 13% | 10.7 | 11.9 | 11% | 11% | 8.4 | 8.2 | -2% | -2% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.1 | 13% | 13% |
| 83 | December | 3.0 | 3.1 | 3% | 3% | 6.7 | 6.9 | 3% | 3% | 10.2 | 10.6 | 5% | 5% | 7.9 | 7.6 | -3% | -3% | 2.1 | 2.1 | -4% | -4% | 3.5 | 3.5 | 1% | 1% |
| 84 | January | 2.7 | 2.8 | 2% | 2% | 6.1 | 6.5 | 6% | 6% | 9.3 | 10.0 | 8% | 8% | 7.0 | 7.0 | -1% | -1% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.5 | 9% | 9% |
| 84 | February | 2.3 | 2.6 | 13% | 13% | 5.1 | 5.8 | 14% | 14% | 7.8 | 9.1 | 17% | 17% | 5.7 | 6.5 | 12% | 12% | 1.8 | 1.8 | 1% | 1% | 3.0 | 3.1 | 2% | 2% |
| 84 | March | 2.3 | 2.3 | 1% | 1% | 5.3 | 5.8 | 10% | 10% | 8.0 | 8.9 | 11% | 11% | 5.7 | 5.9 | 4% | 4% | 1.7 | 1.7 | 1% | 1% | 2.9 | 3.3 | 16% | 16% |
| 84 | April | 26.3 | 26.5 | 1% | 1% | 58.1 | 60.0 | 3% | 3% | 68.5 | 71.0 | 4% | 4% | 47.5 | 57.1 | 20% | 20% | 16.9 | 13.7 | -19% | -19% | 31.1 | 30.9 | -1% | -1% |
| 84 | May | 45.9 | 45.2 | -1% | -1% | 99.5 | 99.6 | 0% | 0% | 121.0 | 119.4 | -1% | -1% | 82.9 | 84.6 | 2% | 2% | 30.1 | 26.4 | -12% | -10% | 51.4 | 51.4 | 0% | 0% |
| 84 | June | 36.1 | 36.6 | 2% | 1% | 76.8 | 79.4 | 3% | 2% | 95.8 | 98.7 | 3% | 2% | 70.7 | 73.4 | 4% | 3% | 23.5 | 20.9 | -11% | -5% | 40.4 | 40.4 | 0% | 0% |
| 84 | July | 6.3 | 6.1 | -4% | -2% | 12.9 | 13.1 | 2% | 1% | 19.1 | 18.8 | -1% | 0% | 14.2 | 13.0 | -9% | -4% | 3.5 | 3.5 | 1% | 0% | 6.1 | 6.5 | 7% | 2% |
| 84 | August | 5.3 | 5.2 | -2% | -2% | 10.8 | 10.7 | -1% | -1% | 16.3 | 15.8 | -3% | -3% | 12.4 | 11.1 | -10% | -10% | 3.1 | 3.2 | 0% | 0% | 5.1 | 5.1 | 0% | 0% |
| 84 | September | 4.7 | 4.8 | 0% | 0% | 9.6 | 9.8 | 2% | 2% | 14.6 | 14.6 | 0% | 0% | 11.4 | 10.8 | -5% | -5% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | -1% | -1% |
| 84 | October | 6.6 | 6.2 | -6% | -6% | 13.6 | 13.3 | -3% | -3% | 19.5 | 18.8 | -4% | -4% | 16.1 | 16.9 | 5% | 5% | 3.2 | 2.9 | -9% | -9% | 6.5 | 6.4 | -2% | -2% |
| 84 | November | 4.6 | 4.6 | 0% | 0% | 9.3 | 9.7 | 4% | 4% | 13.9 | 14.3 | 3% | 3% | 10.8 | 10.3 | -5% | -5% | 2.7 | 2.7 | 1% | 1% | 4.6 | 4.7 | 3% | 3% |
| 84 | December | 4.0 | 4.0 | -2% | -2% | 8.4 | 8.3 | -1% | -1% | 12.6 | 12.6 | 0% | 0% | 9.7 | 9.1 | -6% | -6% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.0 | -1% | -1% |
| 85 | January | 3.5 | 3.5 | 0% | 0% | 7.5 | 7.8 | 4% | 4% | 11.4 | 11.8 | 4% | 4% | 8.7 | 8.3 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 8% | 8% |
| 85 | February | 2.8 | 3.1 | 11% | 11% | 6.2 | 7.1 | 15% | 15% | 9.4 | 10.9 | 17% | 17% | 7.2 | 7.7 | 8% | 8% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.7 | 7% | 7% |
| 85 | March | 3.0 | 2.9 | -2% | -2% | 6.5 | 6.6 | 0% | 0% | 9.8 | 10.2 | 3% | 3% | 7.5 | 7.4 | -1% | -1% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.4 | 1% | 1% |
| 85 | April | 22.6 | 22.5 | -1% | -1% | 50.2 | 51.2 | 2% | 2% | 59.5 | 60.8 | 2% | 2% | 41.9 | 50.4 | 20% | 20% | 14.3 | 11.7 | -18% | -18% | 26.9 | 26.5 | -2% | -2% |
| 85 | May | 33.6 | 32.4 | -3% | -3% | 72.2 | 71.9 | -1% | 0% | 88.1 | 86.6 | -2% | -1% | 59.5 | 61.3 | 3% | 3% | 21.6 | 19.1 | -12% | -7% | 37.0 | 37.1 | 0% | 0% |
| 85 | June | 6.7 | 6.3 | -5% | -1% | 13.9 | 14.0 | 1% | 0% | 19.7 | 19.4 | -2% | 0% | 14.9 | 14.9 | 0% | 0% | 3.6 | 3.6 | -1% | 0% | 6.9 | 7.0 | 3% | 0% |
| 85 | July | 5.6 | 5.4 | -4% | -2% | 11.5 | 11.3 | -1% | 0% | 16.7 | 16.2 | -3% | -1% | 12.7 | 11.6 | -8% | -4% | 3.3 | 3.4 | 1% | 0% | 5.5 | 5.5 | 0% | 0% |
| 85 | August | 4.8 | 4.8 | 0% | 0% | 9.8 | 9.8 | 0% | 0% | 14.6 | 14.4 | -1% | -1% | 11.3 | 10.3 | -8% | -8% | 3.0 | 3.0 | 0% | 0% | 4.8 | 4.7 | -1% | -1% |
| 85 | September | 4.1 | 4.3 | 5% | 5% | 8.4 | 8.8 | 4% | 4% | 12.6 | 13.1 | 4% | 4% | 9.9 | 9.4 | -4% | -4% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | October | 5.4 | 5.2 | -4% | -4% | 11.1 | 10.9 | -2% | -2% | 16.0 | 15.8 | -1% | -1% | 13.3 | 14.1 | 6% | 6% | 2.9 | 2.6 | -8% | -8% | 5.3 | 5.2 | -2% | -2% |
| 85 | November | 3.9 | 4.0 | 2% | 2% | 8.3 | 8.6 | 4% | 4% | 12.1 | 12.8 | 5% | 5% | 9.4 | 9.3 | -2% | -2% | 2.4 | 2.5 | 1% | 1% | 4.2 | 4.3 | 3% | 3% |
| 85 | December | 3.5 | 3.5 | 2% | 2% | 7.6 | 7.7 | 1% | 1% | 11.1 | 11.5 | 4% | 4% | 8.6 | 8.3 | -3% | -3% | 2.3 | 2.3 | 1% | 1% | 3.9 | 3.9 | 0% | 0% |
| 86 | January | 3.1 | 3.2 | 1% | 1% | 6.9 | 7.1 | 3% | 3% | 10.2 | 10.7 | 5% | 5% | 7.7 | 7.6 | -1% | -1% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.7 | 3% | 3% |
| 86 | February | 2.7 | 2.9 | 10% | 10% | 5.9 | 6.5 | 11% | 11% | 8.7 | 9.9 | 15% | 15% | 6.4 | 7.2 | 12% | 12% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.4 | -1% | -1% |
| 86 | March | 2.7 | 2.7 | 0% | 0% | 6.0 | 6.4 | 5% | 5% | 8.9 | 9.5 | 8% | 8% | 6.4 | 6.6 | 2% | 2% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.5 | 8% | 8% |
| 86 | April | 7.9 | 7.5 | -5% | -5% | 17.1 | 17.3 | 1% | 1% | 22.6 | 22.8 | 1% | 1% | 18.2 | 24.4 | 34% | 34% | 3.3 | 2.2 | -32% | -16% | 8.7 | 8.7 | -1% | -1% |
| 86 | May | 23.7 | 22.5 | -5% | -3% | 51.6 | 50.7 | -2% | -1% | 60.2 | 59.1 | -2% | -1% | 40.1 | 44.2 | 10% | 6% | 14.8 | 12.8 | -13% | -5% | 26.6 | 26.3 | -1% | 0% |
| 86 | June | 16.1 | 15.7 | -3% | -1% | 34.3 | 34.7 | 1% | 0% | 41.3 | 41.7 | 1% | 0% | 29.7 | 31.9 | 8% | 3% | 9.7 | 8.8 | -9% | -2% | 17.7 | 17.7 | 0% | 0% |
| 86 | July | 5.8 | 5.5 | -5% | -2% | 12.1 | 12.0 | -1% | 0% | 17.1 | 16.5 | -3% | -1% | 12.4 | 11.3 | -9% | -4% | 3.5 | 3.6 | 1% | 0% | 5.9 | 6.0 | 2% | 1% |
| 86 | August | 4.9 | 4.8 | -1% | -1% | 10.2 | 10.2 | 0% | 0% | 14.7 | 14.6 | -1% | -1% | 10.9 | 9.9 | -9% | -9% | 3.2 | 3.2 | 1% | 1% | 5.0 | 5.0 | 0% | 0% |
| 86 | September | 4.1 | 4.3 | 5% | 5% | 8.7 | 9.1 | 4% | 4% | 12.8 | 13.3 | 4% | 4% | 9.6 | 9.1 | -6% | -6% | 2.8 | 2.9 | 1% | 1% | 4.5 | 4.4 | -1% | -1% |
| 86 | October | 4.1 | 4.0 | -3% | -3% | 8.6 | 8.5 | -1% | -1% | 12.7 | 12.7 | 0% | 0% | 9.8 | 9.2 | -5% | -5% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.3 | -1% | -1% |
| 86 | November | 3.5 | 3.6 | 3% | 3% | 7.5 | 8.0 | 8% | 8% | 11.0 | 11.9 | 8% | 8% | 8.5 | 8.3 | -1% | -1% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.2 | 8% | 8% |
| 86 | December | 3.2 | 3.2 | 1% | 1% | 7.0 | 7.2 | 2% | 2% | 10.4 | 10.8 | 4% | 4% | 7.8 | 7.6 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.7 | 3% | 3% |
| 87 | January | 2.9 | 2.9 | 0% | 0% | 6.4 | 6.5 | 1% | 1% | 9.5 | 9.9 | 4% | 4% | 7.0 | 7.0 | 0% | 0% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.4 | 0% | 0% |
| 87 | February | 2.5 | 2.7 | 8% | 8% | 5.6 | 6.2 | 10% | 10% | 8.3 | 9.3 | 13% | 13% | 5.9 | 6.4 | 8% | 8% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.3 | 4% | 4% |
| 87 | March | 5.4 | 5.0 | -8% | -8% | 11.6 | 11.2 | -3% | -3% | 16.1 | 15.7 | -2% | -2% | 13.4 | 16.8 | 25% | 25% | 2.6 | 2.0 | -23% | -23% | 5.7 | 5.5 | -3% | -3% |
| 87 | April | 19.3 | 18.7 | -3% | -3% | 42.3 | 42.8 | 1% | 1% | 50.0 | 50.2 | 0% | 0% | 33.9 | 40.4 | 19% | 19% | 11.4 | 9.5 | -17% | -17% | 22.5 | 22.3 | -1% | -1% |
| 87 | May | 11.2 | 10.4 | -7% | -2% | 23.4 | 22.7 | -3% | -1% | 29.2 | 28.1 | -4% | -1% | 21.3 | 22.7 | 6% | 2% | 5.7 | 5.1 | -10% | -2% | 11.4 | 11.3 | -1% | 0% |
| 87 | June | 6.1 | 5.8 | -4% | -1% | 12.7 | 12.7 | 0% | 0% | 17.2 | 17.1 | 0% | 0% | 12.8 | 12.8 | 0% | 0% | 3.7 | 3.7 | 0% | 0% | 6.4 | 6.4 | 0% | 0% |
| 87 | July | 5.2 | 5.1 | -3% | -1% | 10.9 | 10.8 | -1% | 0% | 15.0 | 14.9 | -1% | 0% | 11.3 | 10.4 | -8% | -3% | 3.4 | 3.4 | 1% | 0% | 5.4 | 5.4 | 0% | 0% |
| 87 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.5 | 0% | 0% | 13.3 | 13.4 | 1% | 1% | 9.9 | 9.2 | -8% | -8% | 3.0 | 3.1 | 0% | 0% | 4.8 | 4.7 | -1% | -1% |
| 87 | September | 3.8 | 3.9 | 3% | 3% | 8.1 | 8.4 | 3% | 3% | 11.6 | 12.1 | 5% | 5% | 8.8 | 8.4 | -4% | -4% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.2 | -2% | -2% |
| 87 | October | 3.7 | 3.6 | -2% | -2% | 8.0 | 7.9 | -1% | -1% | 11.5 | 11.6 | 1% | 1% | 8.7 | 8.3 | -4% | -4% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.0 | -1% | -1% |
| 87 | November | 3.2 | 3.3 | 2% | 2% | 7.0 | 7.4 | 5% | 5% | 10.2 | 10.8 | 6% | 6% | 7.5 | 7.5 | 1% | 1% | 2.3 | 2.3 | 0% | 0% | 3.8 | 3.8 | 2% | 2% |
| 87 | December | 3.0 | 3.0 | 0% | 0% | 6.7 | 7.0 | 4% | 4% | 9.6 | 10.2 | 6% | 6% | 6.9 | 6.9 | -1% | -1% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.7 | 7% | 7% |
| 88 | January | 2.7 | 2.7 | 0% | 0% | 6.2 | 6.6 | 6% | 6% | 9.0 | 9.6 | 7% | 7% | 6.2 | 6.3 | 1% | 1% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.6 | 11% | 11% |
| 88 | February | 2.3 | 2.6 | 11% | 11% | 5.3 | 6.0 | 14% | 14% | 7.6 | 8.9 | 18% | 18% | 5.2 | 5.8 | 13% | 13% | 1.8 | 1.9 | 1% | 1% | 3.1 | 3.2 | 4% | 4% |
| 88 | March | 4.0 | 3.6 | -9% | -9% | 8.6 | 8.6 | 0% | 0% | 12.0 | 12.2 | 1% | 1% | 9.1 | 11.1 | 21% | 21% | 2.2 | 1.9 | -13% | -13% | 4.3 | 4.5 | 5% | 5% |
| 88 | April | 19.5 | 19.2 | -2% | -2% | 43.0 | 43.8 | 2% | 2% | 51.0 | 51.4 | 1% | 1% | 34.8 | 42.8 | 23% | 23% | 11.5 | 9.3 | -19% | -19% | 22.9 | 22.7 | -1% | -1% |
| 88 | May | 62.4 | 62.3 | 0% | 0% | 136.0 | 136.6 | 0% | 0% | 163.9 | 163.9 | 0% | 0% | 111.5 | 112.8 | 1% | 1% | 42.1 | 37.0 | -12% | -12% | 70.8 | 70.4 | -1% | -1% |
| 88 | June | 47.6 | 48.4 | 2% | 2% | 101.2 | 105.1 | 4% | 3% | 126.2 | 130.4 | 3% | 3% | 92.7 | 95.2 | 3% | 3% | 31.3 | 27.8 | -11% | -7% | 53.3 | 53.7 | 1% | 1% |
| 88 | July | 6.8 | 6.6 | -3% | -1% | 13.9 | 14.1 | 2% | 1% | 20.3 | 20.0 | -1% | -1% | 15.3 | 13.8 | -10% | -5% | 3.7 | 3.8 | 1% | 0% | 6.5 | 7.0 | 7% | 2% |
| 88 | August | 5.7 | 5.6 | -2% | -2% | 11.6 | 11.5 | -1% | -1% | 17.3 | 16.7 | -4% | -4% | 13.1 | 11.8 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | -1% | -1% |
| 88 | September | 4.8 | 4.9 | 2% | 2% | 9.8 | 10.1 | 3% | 3% | 14.9 | 14.9 | 0% | 0% | 11.5 | 10.6 | -8% | -8% | 3.0 | 3.0 | 0% | 0% | 4.8 | 4.8 | 0% | 0% |
| 88 | October | 4.4 | 4.4 | -1% | -1% | 9.0 | 8.9 | 0% | 0% | 13.8 | 13.5 | -2% | -2% | 10.8 | 9.7 | -10% | -10% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 88 | November | 3.9 | 3.9 | 2% | 2% | 7.9 | 8.1 | 3% | 3% | 12.2 | 12.4 | 2% | 2% | 9.5 | 9.0 | -5% | -5% | 2.4 | 2.4 | 1% | 1% | 3.9 | 3.9 | -1% | -1% |
| 88 | December | 3.5 | 3.5 | 0% | 0% | 7.4 | 7.5 | 1% | 1% | 11.5 | 11.6 | 0% | 0% | 8.8 | 8.2 | -6% | -6% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.7 | 2% | 2% |
| 89 | January | 3.1 | 3.1 | 0% | 0% | 6.7 | 6.9 | 2% | 2% | 10.5 | 10.7 | 2% | 2% | 8.0 | 7.6 | -5% | -5% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 4% | 4% |
| 89 | February | 2.5 | 2.8 | 10% | 10% | 5.6 | 6.4 | 14% | 14% | 8.7 | 10.0 | 15% | 15% | 6.6 | 7.0 | 7% | 7% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.3 | 5% | 5% |
| 89 | March | 2.9 | 2.7 | -7% | -7% | 6.4 | 6.2 | -4% | -4% | 9.7 | 9.7 | -1% | -1% | 7.3 | 7.4 | 1% | 1% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.2 | -3% | -3% |
| 89 | April | 6.3 | 6.0 | -5% | -5% | 13.6 | 13.7 | 1% | 1% | 18.8 | 18.9 | 1% | 1% | 16.1 | 21.0 | 31% | 31% | 2.8 | 2.0 | -29% | -12% | 6.8 | 6.8 | -1% | 0% |
| 89 | May | 13.1 | 11.9 | -9% | -3% | 28.1 | 27.0 | -4% | -1% | 34.7 | 33.1 | -5% | -1% | 24.5 | 28.8 | 18% | 6% | 6.3 | 5.2 | -18% | -3% | 14.0 | 13.7 | -2% | 0% |
| 89 | June | 4.8 | 4.6 | -4% | 0% | 9.9 | 10.0 | 1% | 0% | 13.6 | 13.8 | 1% | 0% | 10.1 | 9.8 | -3% | 0% | 2.8 | 2.8 | 0% | 0% | 4.9 | 5.0 | 2% | 0% |
| 89 | July | 4.3 | 4.3 | -1% | 0% | 9.2 | 9.1 | 0% | 0% | 12.6 | 12.7 | 0% | 0% | 9.4 | 8.6 | -8% | -3% | 2.8 | 2.9 | 1% | 0% | 4.6 | 4.5 | -1% | 0% |
| 89 | August | 3.8 | 3.8 | 1% | 1% | 8.1 | 8.2 | 0% | 0% | 11.5 | 11.7 | 2% | 2% | 8.7 | 8.0 | -8% | -8% | 2.6 | 2.6 | 1% | 1% | 4.1 | 4.1 | -1% | -1% |
| 89 | September | 3.3 | 3.4 | 5% | 5% | 7.1 | 7.4 | 4% | 4% | 10.2 | 10.8 | 6% | 6% | 7.6 | 7.4 | -2% | -2% | 2.3 | 2.4 | 1% | 1% | 3.8 | 3.7 | -1% | -1% |
| 89 | October | 4.7 | 4.4 | -7% | -7% | 9.8 | 9.6 | -2% | -2% | 13.7 | 13.6 | -1% | -1% | 10.9 | 12.0 | 10% | 10% | 2.6 | 2.4 | -9% | -9% | 4.8 | 4.8 | 0% | 0% |
| 89 | November | 3.4 | 3.4 | -1% | -1% | 7.3 | 7.7 | 6% | 6% | 10.2 | 11.0 | 7% | 7% | 7.5 | 7.5 | 0% | 0% | 2.2 | 2.2 | 1% | 1% | 3.8 | 4.0 | 8% | 8% |
| 89 | December | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.0 | 2% | 2% | 9.7 | 10.1 | 4% | 4% | 6.8 | 6.7 | -2% | -2% | 2.1 | 2.1 | -3% | -3% | 3.6 | 3.6 | 2% | 2% |
| 90 | January | 2.8 | 2.8 | 0% | 0% | 6.4 | 6.8 | 6% | 6% | 9.0 | 9.7 | 7% | 7% | 6.2 | 6.2 | 0% | 0% | 2.0 | 2.0 | -3% | -3% | 3.4 | 3.7 | 10% | 10% |
| 90 | February | 3.2 | 3.3 | 2% | 2% | 7.0 | 7.7 | 10% | 10% | 9.8 | 11.0 | 13% | 13% | 7.2 | 8.9 | 24% | 24% | 2.1 | 2.0 | -5% | -5% | 3.9 | 4.1 | 4% | 4% |
| 90 | March | 2.9 | 2.8 | -4% | -4% | 6.3 | 6.8 | 8% | 8% | 8.9 | 9.7 | 9% | 9% | 6.1 | 6.2 | 2% | 2% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.8 | 16% | 16% |
| 90 | April | 17.9 | 17.5 | -2% | -2% | 39.5 | 40.2 | 2% | 2% | 47.1 | 47.5 | 1% | 1% | 32.5 | 40.7 | 25% | 25% | 10.6 | 8.4 | -20% | -20% | 21.0 | 20.8 | -1% | -1% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | May | 67.7 | 67.8 | 0% | 0% | 147.8 | 148.8 | 1% | 1% | 177.5 | 178.2 | 0% | 0% | 120.9 | 122.3 | 1% | 1% | 46.0 | 40.3 | -12% | -12% | 77.1 | 76.7 | 0% | 0% |
| 90 | June | 65.3 | 67.1 | 3% | 3% | 139.4 | 145.0 | 4% | 4% | 173.8 | 179.8 | 3% | 3% | 127.3 | 130.1 | 2% | 2% | 43.7 | 38.6 | -12% | -10% | 73.7 | 74.0 | 0% | 0% |
| 90 | July | 7.0 | 6.8 | -4% | -2% | 14.1 | 14.5 | 3% | 1% | 20.9 | 20.4 | -2% | -1% | 15.8 | 14.1 | -11% | -6% | 3.7 | 3.8 | 1% | 0% | 6.5 | 7.1 | 9% | 3% |
| 90 | August | 5.8 | 5.8 | -1% | -1% | 11.8 | 11.7 | 0% | 0% | 17.6 | 16.9 | -4% | -4% | 13.4 | 11.9 | -11% | -11% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 90 | September | 4.9 | 5.0 | 2% | 2% | 9.8 | 10.1 | 3% | 3% | 15.0 | 15.0 | 0% | 0% | 11.7 | 10.8 | -8% | -8% | 3.0 | 3.0 | 0% | 0% | 4.8 | 4.8 | 0% | 0% |
| 90 | October | 7.4 | 7.0 | -6% | -6% | 15.1 | 14.8 | -2% | -2% | 21.5 | 20.5 | -5% | -5% | 17.7 | 18.6 | 5% | 5% | 3.4 | 3.0 | -11% | -11% | 7.2 | 7.1 | -1% | -1% |
| 90 | November | 5.1 | 4.9 | -4% | -4% | 10.3 | 10.8 | 5% | 5% | 15.3 | 15.6 | 2% | 2% | 11.8 | 11.1 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 5.0 | 5.5 | 10% | 10% |
| 90 | December | 4.5 | 4.4 | -2% | -2% | 9.2 | 9.6 | 4% | 4% | 13.9 | 14.0 | 1% | 1% | 10.5 | 9.6 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.5 | 4.9 | 9% | 9% |
| 91 | January | 3.9 | 3.8 | -2% | -2% | 8.2 | 8.5 | 4% | 4% | 12.4 | 12.7 | 3% | 3% | 9.4 | 8.8 | -7% | -7% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.4 | 9% | 9% |
| 91 | February | 3.2 | 3.4 | 6% | 6% | 6.9 | 7.8 | 13% | 13% | 10.6 | 11.8 | 11% | 11% | 8.0 | 8.1 | 1% | 1% | 2.3 | 2.3 | 1% | 1% | 3.7 | 4.1 | 10% | 10% |
| 91 | March | 3.1 | 3.1 | 0% | 0% | 6.8 | 6.9 | 3% | 3% | 10.3 | 10.7 | 3% | 3% | 7.7 | 7.4 | -4% | -4% | 2.1 | 2.1 | -2% | -2% | 3.5 | 3.6 | 4% | 4% |
| 91 | April | 38.8 | 39.3 | 1% | 1% | 86.0 | 88.7 | 3% | 3% | 102.8 | 105.5 | 3% | 3% | 69.3 | 78.2 | 13% | 13% | 26.6 | 22.5 | -15% | -15% | 46.5 | 46.2 | -1% | -1% |
| 91 | May | 75.1 | 75.6 | 1% | 1% | 162.5 | 164.4 | 1% | 1% | 200.8 | 202.2 | 1% | 1% | 144.2 | 144.2 | 0% | 0% | 49.9 | 43.8 | -12% | -12% | 84.1 | 84.3 | 0% | 0% |
| 91 | June | 61.3 | 62.7 | 2% | 2% | 130.1 | 134.9 | 4% | 4% | 164.5 | 169.0 | 3% | 3% | 121.2 | 123.3 | 2% | 2% | 40.5 | 35.9 | -12% | -10% | 68.5 | 68.5 | 0% | 0% |
| 91 | July | 7.0 | 6.9 | -2% | -1% | 14.1 | 14.5 | 3% | 1% | 21.2 | 21.0 | -1% | -1% | 16.0 | 14.1 | -11% | -6% | 3.7 | 3.8 | 1% | 0% | 6.5 | 7.1 | 8% | 2% |
| 91 | August | 5.8 | 5.7 | -1% | -1% | 11.7 | 11.7 | 0% | 0% | 17.7 | 17.1 | -3% | -3% | 13.4 | 11.9 | -11% | -11% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 91 | September | 4.9 | 5.1 | 3% | 3% | 9.8 | 10.2 | 4% | 4% | 15.1 | 15.2 | 1% | 1% | 11.7 | 10.8 | -8% | -8% | 2.9 | 3.0 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 91 | October | 6.6 | 6.3 | -5% | -5% | 13.5 | 13.2 | -3% | -3% | 19.7 | 18.9 | -4% | -4% | 16.1 | 16.6 | 3% | 3% | 3.2 | 2.9 | -9% | -9% | 6.4 | 6.3 | -2% | -2% |
| 91 | November | 4.7 | 4.7 | 0% | 0% | 9.6 | 10.3 | 7% | 7% | 14.4 | 15.1 | 5% | 5% | 11.2 | 10.5 | -6% | -6% | 2.8 | 2.8 | 0% | 0% | 4.7 | 5.2 | 11% | 11% |
| 91 | December | 4.2 | 4.1 | -2% | -2% | 8.6 | 9.4 | 9% | 9% | 13.2 | 14.0 | 5% | 5% | 10.1 | 9.3 | -8% | -8% | 2.5 | 2.5 | 1% | 1% | 4.2 | 5.0 | 20% | 20% |
| 92 | January | 3.7 | 3.6 | -1% | -1% | 7.7 | 8.3 | 7% | 7% | 12.0 | 12.6 | 5% | 5% | 9.0 | 8.5 | -6% | -6% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.4 | 14% | 14% |
| 92 | February | 3.0 | 3.3 | 10% | 10% | 6.4 | 7.2 | 13% | 13% | 9.9 | 11.2 | 14% | 14% | 7.5 | 7.9 | 5% | 5% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.6 | 3% | 3% |
| 92 | March | 3.0 | 2.9 | -1% | -1% | 6.5 | 6.7 | 3% | 3% | 10.0 | 10.5 | 4% | 4% | 7.5 | 7.3 | -3% | -3% | 2.0 | 2.0 | 1% | 1% | 3.3 | 3.5 | 6% | 6% |
| 92 | April | 16.3 | 15.9 | -2% | -2% | 36.1 | 36.6 | 1% | 1% | 44.2 | 44.4 | 0% | 0% | 32.2 | 40.0 | 24% | 24% | 9.5 | 7.5 | -21% | -21% | 19.2 | 18.9 | -2% | -2% |
| 92 | May | 91.9 | 92.5 | 1% | 1% | 200.3 | 201.8 | 1% | 1% | 244.7 | 246.2 | 1% | 1% | 170.7 | 171.4 | 0% | 0% | 62.6 | 54.8 | -12% | -12% | 104.4 | 103.7 | -1% | -1% |
| 92 | June | 58.5 | 59.7 | 2% | 2% | 124.0 | 128.8 | 4% | 4% | 156.5 | 160.9 | 3% | 3% | 115.2 | 117.3 | 2% | 2% | 38.6 | 34.1 | -12% | -9% | 65.2 | 65.6 | 1% | 1% |
| 92 | July | 6.9 | 6.7 | -3% | -1% | 13.9 | 14.3 | 3% | 1% | 20.9 | 20.6 | -2% | -1% | 15.8 | 14.0 | -11% | -6% | 3.7 | 3.7 | 1% | 0% | 6.4 | 7.0 | 8% | 2% |
| 92 | August | 5.7 | 5.7 | 0% | 0% | 11.5 | 11.6 | 0% | 0% | 17.5 | 17.0 | -3% | -3% | 13.3 | 11.8 | -11% | -11% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 92 | September | 5.0 | 5.0 | 1% | 1% | 9.9 | 10.2 | 2% | 2% | 15.2 | 15.2 | 0% | 0% | 11.9 | 11.0 | -7% | -7% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 92 | October | 7.7 | 7.3 | -6% | -6% | 15.9 | 15.5 | -2% | -2% | 22.5 | 21.5 | -4% | -4% | 18.6 | 19.8 | 7% | 7% | 3.4 | 3.0 | -13% | -13% | 7.5 | 7.4 | -1% | -1% |
| 92 | November | 4.9 | 4.8 | -1% | -1% | 9.9 | 10.3 | 4% | 4% | 14.9 | 15.2 | 2% | 2% | 11.5 | 10.8 | -6% | -6% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.1 | 5% | 5% |
| 92 | December | 4.4 | 4.3 | -2% | -2% | 9.0 | 9.1 | 1% | 1% | 13.7 | 13.7 | 0% | 0% | 10.4 | 9.5 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.4 | 2% | 2% |
| 93 | January | 3.9 | 3.8 | -2% | -2% | 8.0 | 8.5 | 5% | 5% | 12.3 | 12.8 | 4% | 4% | 9.3 | 8.7 | -7% | -7% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.4 | 11% | 11% |
| 93 | February | 3.1 | 3.4 | 9% | 9% | 6.6 | 7.5 | 14% | 14% | 10.2 | 11.6 | 14% | 14% | 7.7 | 8.1 | 5% | 5% | 2.2 | 2.3 | 1% | 1% | 3.7 | 3.9 | 6% | 6% |
| 93 | March | 3.1 | 3.0 | 0% | 0% | 6.7 | 6.9 | 3% | 3% | 10.3 | 10.7 | 4% | 4% | 7.7 | 7.5 | -3% | -3% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.6 | 5% | 5% |
| 93 | April | 10.3 | 9.9 | -4% | -4% | 22.6 | 22.7 | 0% | 0% | 29.2 | 29.2 | 0% | 0% | 22.3 | 28.7 | 29% | 29% | 5.2 | 3.9 | -24% | -18% | 11.8 | 11.5 | -2% | -2% |
| 93 | May | 55.8 | 55.3 | -1% | -1% | 122.3 | 122.4 | 0% | 0% | 147.0 | 146.0 | -1% | -1% | 99.1 | 101.5 | 2% | 2% | 38.1 | 33.4 | -12% | -12% | 63.9 | 63.5 | -1% | -1% |
| 93 | June | 39.5 | 40.3 | 2% | 2% | 84.3 | 87.6 | 4% | 3% | 105.3 | 109.2 | 4% | 3% | 76.9 | 79.7 | 4% | 3% | 26.1 | 23.2 | -11% | -6% | 44.4 | 44.7 | 1% | 0% |
| 93 | July | 6.6 | 6.3 | -4% | -2% | 13.5 | 13.5 | 1% | 0% | 20.0 | 19.6 | -2% | -1% | 14.8 | 13.4 | -9% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 6.7 | 5% | 1% |
| 93 | August | 5.5 | 5.5 | -1% | -1% | 11.3 | 11.2 | 0% | 0% | 17.0 | 16.5 | -3% | -3% | 12.8 | 11.5 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 93 | September | 8.5 | 8.3 | -3% | -3% | 17.8 | 17.9 | 1% | 1% | 24.6 | 24.3 | -1% | -1% | 20.4 | 22.3 | 10% | 10% | 4.0 | 3.4 | -13% | -13% | 8.9 | 8.8 | -1% | -1% |
| 93 | October | 5.3 | 5.1 | -4% | -4% | 11.0 | 11.0 | 0% | 0% | 16.3 | 16.0 | -2% | -2% | 12.4 | 11.2 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.4 | 2% | 2% |
| 93 | November | 4.5 | 4.6 | 2% | 2% | 9.4 | 10.2 | 9% | 9% | 14.0 | 14.9 | 7% | 7% | 10.6 | 9.9 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.7 | 5.2 | 11% | 11% |
| 93 | December | 4.1 | 4.1 | 0% | 0% | 8.6 | 9.0 | 5% | 5% | 13.0 | 13.5 | 4% | 4% | 9.9 | 9.1 | -8% | -8% | 2.6 | 2.7 | 1% | 1% | 4.2 | 4.6 | 9% | 9% |
| 94 | January | 3.6 | 3.6 | 0% | 0% | 7.7 | 8.1 | 5% | 5% | 11.7 | 12.3 | 5% | 5% | 8.9 | 8.3 | -6% | -6% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.2 | 9% | 9% |
| 94 | February | 2.9 | 3.3 | 12% | 12% | 6.3 | 7.7 | 22% | 22% | 9.6 | 11.7 | 22% | 22% | 7.3 | 7.8 | 6% | 6% | 2.2 | 2.2 | 0% | 0% | 3.6 | 4.2 | 19% | 19% |
| 94 | March | 2.9 | 2.9 | 0% | 0% | 6.5 | 6.7 | 3% | 3% | 9.8 | 10.4 | 5% | 5% | 7.4 | 7.2 | -3% | -3% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.5 | 4% | 4% |
| 94 | April | 3.7 | 3.6 | -5% | -3% | 8.0 | 8.1 | 1% | 0% | 11.7 | 12.2 | 4% | 2% | 9.2 | 10.6 | 16% | 9% | 2.2 | 2.1 | -8% | -3% | 4.1 | 4.1 | 0% | 0% |
| 94 | May | 55.9 | 55.4 | -1% | -1% | 123.6 | 123.4 | 0% | 0% | 147.9 | 146.8 | -1% | -1% | 99.5 | 105.6 | 6% | 6% | 37.6 | 32.2 | -15% | -15% | 64.9 | 63.9 | -1% | -1% |
| 94 | June | 90.6 | 94.2 | 4% | 4% | 194.6 | 203.2 | 4% | 4% | 241.6 | 251.8 | 4% | 4% | 175.9 | 180.6 | 3% | 3% | 61.6 | 54.1 | -12% | -12% | 103.5 | 103.5 | 0% | 0% |
| 94 | July | 7.3 | 6.8 | -7% | -3% | 14.3 | 14.5 | 1% | 1% | 21.4 | 20.9 | -3% | -1% | 16.5 | 14.9 | -9% | -5% | 3.6 | 3.7 | 1% | 0% | 6.4 | 7.1 | 10% | 3% |
| 94 | August | 6.0 | 5.9 | -2% | -2% | 11.9 | 11.9 | -1% | -1% | 17.9 | 17.3 | -4% | -4% | 13.8 | 12.5 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 94 | September | 5.0 | 5.1 | 1% | 1% | 10.0 | 10.3 | 3% | 3% | 15.2 | 15.2 | 0% | 0% | 12.0 | 11.2 | -7% | -7% | 2.9 | 3.0 | 0% | 0% | 4.8 | 4.8 | 0% | 0% |
| 94 | October | 4.9 | 4.7 | -4% | -4% | 9.7 | 9.5 | -2% | -2% | 14.9 | 14.4 | -4% | -4% | 11.8 | 10.9 | -8% | -8% | 2.7 | 2.8 | 1% | 1% | 4.5 | 4.5 | -1% | -1% |
| 94 | November | 4.6 | 4.4 | -3% | -3% | 9.1 | 9.3 | 2% | 2% | 13.9 | 14.0 | 1% | 1% | 11.0 | 10.8 | -2% | -2% | 2.6 | 2.6 | 1% | 1% | 4.4 | 4.5 | 4% | 4% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94 | December | 4.1 | 3.9 | -5% | -5% | 8.4 | 8.4 | 1% | 1% | 12.9 | 12.9 | 0% | 0% | 10.0 | 9.5 | -5% | -5% | 2.4 | 2.4 | 0% | 0% | 4.0 | 4.2 | 5% | 5% |
| 95 | January | 3.6 | 3.5 | -2% | -2% | 7.5 | 7.8 | 4% | 4% | 11.7 | 12.0 | 3% | 3% | 8.8 | 8.5 | -3% | -3% | 2.2 | 2.2 | 1% | 1% | 3.7 | 4.0 | 10% | 10% |
| 95 | February | 3.0 | 3.1 | 5% | 5% | 6.4 | 7.2 | 12% | 12% | 10.0 | 11.1 | 11% | 11% | 7.5 | 7.9 | 5% | 5% | 2.0 | 2.1 | 1% | 1% | 3.5 | 3.8 | 10% | 10% |
| 95 | March | 2.9 | 2.8 | -2% | -2% | 6.3 | 6.4 | 1% | 1% | 9.8 | 10.1 | 3% | 3% | 7.3 | 7.3 | -1% | -1% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.3 | 3% | 3% |
| 95 | April | 25.2 | 25.3 | 0% | 0% | 55.9 | 56.8 | 2% | 2% | 66.5 | 67.8 | 2% | 2% | 46.9 | 55.9 | 19% | 19% | 15.8 | 12.9 | -18% | -18% | 29.9 | 29.2 | -2% | -2% |
| 95 | May | 42.3 | 41.5 | -2% | -2% | 91.4 | 91.2 | 0% | 0% | 112.0 | 110.1 | -2% | -2% | 77.1 | 78.6 | 2% | 2% | 27.5 | 24.2 | -12% | -9% | 47.0 | 46.9 | 0% | 0% |
| 95 | June | 19.0 | 18.8 | -1% | 0% | 39.7 | 40.6 | 2% | 1% | 50.6 | 51.5 | 2% | 1% | 38.0 | 39.9 | 5% | 2% | 11.2 | 10.2 | -9% | -2% | 20.3 | 20.4 | 1% | 0% |
| 95 | July | 6.3 | 6.0 | -4% | -2% | 13.1 | 13.0 | 0% | 0% | 19.3 | 18.8 | -2% | -1% | 14.2 | 13.0 | -9% | -4% | 3.7 | 3.7 | 1% | 0% | 6.3 | 6.5 | 3% | 1% |
| 95 | August | 5.4 | 5.3 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 16.5 | 16.2 | -2% | -2% | 12.4 | 11.2 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 95 | September | 5.9 | 5.9 | -1% | -1% | 12.2 | 12.3 | 1% | 1% | 17.8 | 17.8 | 0% | 0% | 14.1 | 14.5 | 3% | 3% | 3.4 | 3.2 | -4% | -4% | 6.1 | 6.0 | -2% | -2% |
| 95 | October | 11.5 | 10.7 | -6% | -6% | 24.3 | 23.9 | -2% | -2% | 31.8 | 30.7 | -3% | -3% | 25.5 | 27.9 | 9% | 9% | 5.4 | 4.6 | -15% | -15% | 12.0 | 12.0 | 0% | 0% |
| 95 | November | 5.4 | 5.4 | -1% | -1% | 11.3 | 11.7 | 4% | 4% | 16.3 | 16.8 | 3% | 3% | 12.2 | 11.5 | -5% | -5% | 3.5 | 3.5 | 1% | 1% | 5.7 | 5.9 | 4% | 4% |
| 95 | December | 4.8 | 4.8 | 0% | 0% | 10.1 | 10.3 | 1% | 1% | 14.7 | 15.0 | 2% | 2% | 11.0 | 10.1 | -8% | -8% | 3.2 | 3.3 | 1% | 1% | 5.0 | 5.1 | 2% | 2% |
| 96 | January | 4.2 | 4.2 | 0% | 0% | 9.0 | 9.0 | 0% | 0% | 13.1 | 13.4 | 2% | 2% | 10.0 | 9.2 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.5 | 4.5 | 0% | 0% |
| 96 | February | 3.3 | 3.8 | 13% | 13% | 7.2 | 8.1 | 12% | 12% | 10.7 | 12.3 | 15% | 15% | 8.2 | 8.5 | 4% | 4% | 2.6 | 2.6 | 1% | 1% | 4.1 | 4.1 | 0% | 0% |
| 96 | March | 3.6 | 3.5 | -3% | -3% | 7.9 | 7.8 | 0% | 0% | 11.6 | 11.9 | 3% | 3% | 8.8 | 8.6 | -3% | -3% | 2.5 | 2.5 | 1% | 1% | 4.0 | 4.0 | 1% | 1% |
| 96 | April | 8.5 | 8.1 | -4% | -4% | 18.2 | 18.3 | 1% | 1% | 24.0 | 24.2 | 1% | 1% | 19.1 | 23.9 | 25% | 25% | 3.9 | 3.0 | -23% | -13% | 9.3 | 9.1 | -1% | -1% |
| 96 | May | 16.7 | 15.6 | -6% | -3% | 36.1 | 35.1 | -3% | -1% | 43.3 | 41.9 | -3% | -1% | 30.0 | 33.1 | 10% | 5% | 10.0 | 8.8 | -12% | -3% | 18.3 | 18.0 | -2% | -1% |
| 96 | June | 6.0 | 5.6 | -6% | -1% | 12.6 | 12.7 | 0% | 0% | 17.3 | 17.4 | 1% | 0% | 12.7 | 12.6 | -1% | 0% | 3.8 | 3.8 | 0% | 0% | 6.4 | 6.5 | 2% | 0% |
| 96 | July | 5.2 | 5.1 | -3% | -1% | 11.0 | 10.9 | -1% | 0% | 15.3 | 15.3 | 0% | 0% | 11.3 | 10.5 | -7% | -3% | 3.4 | 3.5 | 1% | 0% | 5.4 | 5.4 | 0% | 0% |
| 96 | August | 4.5 | 4.5 | 0% | 0% | 9.5 | 9.6 | 0% | 0% | 13.5 | 13.7 | 2% | 2% | 10.0 | 9.3 | -7% | -7% | 3.1 | 3.1 | 1% | 1% | 4.8 | 4.8 | -1% | -1% |
| 96 | September | 3.8 | 3.9 | 3% | 3% | 8.2 | 8.4 | 3% | 3% | 11.7 | 12.4 | 5% | 5% | 8.9 | 8.6 | -3% | -3% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.2 | -2% | -2% |
| 96 | October | 7.6 | 7.1 | -7% | -7% | 16.0 | 15.6 | -3% | -3% | 21.4 | 20.9 | -2% | -2% | 17.1 | 19.8 | 16% | 16% | 3.4 | 2.8 | -18% | -18% | 7.7 | 7.6 | -1% | -1% |
| 96 | November | 4.7 | 4.5 | -5% | -5% | 10.0 | 10.4 | 4% | 4% | 13.8 | 14.4 | 4% | 4% | 10.2 | 10.1 | -1% | -1% | 3.0 | 3.0 | 1% | 1% | 5.1 | 5.5 | 7% | 7% |
| 96 | December | 4.2 | 4.1 | -3% | -3% | 9.1 | 9.4 | 3% | 3% | 12.7 | 13.2 | 4% | 4% | 9.2 | 8.8 | -5% | -5% | 2.9 | 2.9 | 1% | 1% | 4.7 | 5.0 | 8% | 8% |
| 97 | January | 3.7 | 3.7 | 0% | 0% | 8.1 | 8.4 | 4% | 4% | 11.4 | 12.0 | 5% | 5% | 8.2 | 8.0 | -3% | -3% | 2.6 | 2.6 | 0% | 0% | 4.2 | 4.5 | 6% | 6% |
| 97 | February | 3.1 | 3.4 | 10% | 10% | 6.8 | 7.6 | 12% | 12% | 9.5 | 11.0 | 15% | 15% | 6.8 | 7.4 | 9% | 9% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.0 | 2% | 2% |
| 97 | March | 3.1 | 3.1 | 0% | 0% | 6.9 | 7.2 | 4% | 4% | 9.8 | 10.4 | 6% | 6% | 6.9 | 6.9 | 0% | 0% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.8 | 6% | 6% |
| 97 | April | 21.8 | 21.6 | -1% | -1% | 48.2 | 49.1 | 2% | 2% | 56.8 | 57.8 | 2% | 2% | 38.5 | 46.7 | 21% | 21% | 13.9 | 11.5 | -17% | -17% | 25.8 | 25.3 | -2% | -2% |
| 97 | May | 34.9 | 33.8 | -3% | -3% | 75.2 | 74.5 | -1% | -1% | 90.7 | 89.4 | -2% | -1% | 60.1 | 61.9 | 3% | 3% | 22.7 | 20.1 | -11% | -7% | 38.6 | 38.4 | -1% | 0% |
| 97 | June | 31.6 | 31.9 | 1% | 1% | 67.6 | 69.5 | 3% | 2% | 83.8 | 85.0 | 1% | 1% | 60.5 | 62.9 | 4% | 3% | 20.8 | 18.7 | -10% | -4% | 35.6 | 35.5 | -1% | 0% |
| 97 | July | 6.5 | 6.3 | -4% | -2% | 13.6 | 13.8 | 1% | 0% | 19.6 | 19.3 | -2% | -1% | 14.6 | 13.2 | -9% | -5% | 3.8 | 3.8 | 1% | 0% | 6.6 | 7.0 | 5% | 2% |
| 97 | August | 5.5 | 5.4 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 16.8 | 16.5 | -2% | -2% | 12.6 | 11.3 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 97 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.0 | 3% | 3% | 14.4 | 14.8 | 2% | 2% | 11.0 | 10.3 | -7% | -7% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 97 | October | 4.3 | 4.3 | 0% | 0% | 8.9 | 8.9 | 0% | 0% | 13.4 | 13.4 | 0% | 0% | 10.4 | 9.5 | -9% | -9% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.3 | -1% | -1% |
| 97 | November | 3.7 | 3.9 | 4% | 4% | 7.8 | 8.1 | 5% | 5% | 11.8 | 12.4 | 5% | 5% | 9.2 | 8.8 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 4.0 | 4.0 | 1% | 1% |
| 97 | December | 3.4 | 3.5 | 2% | 2% | 7.3 | 7.8 | 8% | 8% | 11.1 | 11.9 | 7% | 7% | 8.6 | 8.1 | -5% | -5% | 2.2 | 2.3 | 2% | 2% | 3.7 | 4.1 | 12% | 12% |
| 98 | January | 3.0 | 3.1 | 2% | 2% | 6.6 | 7.1 | 8% | 8% | 10.1 | 10.9 | 8% | 8% | 7.8 | 7.5 | -4% | -4% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.8 | 12% | 12% |
| 98 | February | 2.5 | 2.8 | 12% | 12% | 5.6 | 6.4 | 15% | 15% | 8.5 | 9.9 | 17% | 17% | 6.3 | 6.9 | 9% | 9% | 1.9 | 1.9 | 1% | 1% | 3.2 | 3.4 | 4% | 4% |
| 98 | March | 2.7 | 2.7 | -3% | -3% | 6.1 | 6.5 | 6% | 6% | 9.2 | 9.9 | 7% | 7% | 6.8 | 6.9 | 2% | 2% | 1.8 | 1.9 | 1% | 1% | 3.2 | 3.6 | 12% | 12% |
| 98 | April | 28.6 | 28.8 | 1% | 1% | 63.4 | 65.1 | 3% | 3% | 75.0 | 77.2 | 3% | 3% | 51.5 | 60.9 | 18% | 18% | 18.5 | 15.2 | -18% | -18% | 34.1 | 33.7 | -1% | -1% |
| 98 | May | 66.0 | 66.1 | 0% | 0% | 143.5 | 144.6 | 1% | 1% | 175.5 | 175.6 | 0% | 0% | 123.1 | 124.1 | 1% | 1% | 44.0 | 38.6 | -12% | -12% | 74.5 | 74.4 | 0% | 0% |
| 98 | June | 40.3 | 40.7 | 1% | 1% | 85.1 | 87.8 | 3% | 2% | 107.2 | 110.0 | 3% | 2% | 79.4 | 81.5 | 3% | 3% | 25.9 | 23.1 | -11% | -6% | 44.4 | 44.5 | 0% | 0% |
| 98 | July | 6.7 | 6.5 | -3% | -1% | 13.6 | 13.9 | 2% | 1% | 20.2 | 20.0 | -1% | 0% | 15.1 | 13.6 | -10% | -5% | 3.7 | 3.7 | 1% | 0% | 6.4 | 6.9 | 7% | 2% |
| 98 | August | 5.6 | 5.6 | 0% | 0% | 11.4 | 11.4 | 0% | 0% | 17.1 | 16.7 | -3% | -3% | 13.0 | 11.6 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 98 | September | 4.8 | 4.9 | 3% | 3% | 9.6 | 9.9 | 3% | 3% | 14.7 | 14.8 | 1% | 1% | 11.4 | 10.5 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 98 | October | 4.4 | 4.3 | -2% | -2% | 8.8 | 8.8 | -1% | -1% | 13.7 | 13.4 | -2% | -2% | 10.6 | 9.6 | -9% | -9% | 2.6 | 2.6 | 1% | 1% | 4.2 | 4.1 | -1% | -1% |
| 98 | November | 3.8 | 3.9 | 2% | 2% | 7.7 | 8.2 | 6% | 6% | 12.1 | 12.6 | 4% | 4% | 9.4 | 8.9 | -5% | -5% | 2.3 | 2.4 | 1% | 1% | 3.8 | 4.0 | 5% | 5% |
| 98 | December | 3.5 | 3.5 | 0% | 0% | 7.3 | 7.6 | 5% | 5% | 11.4 | 11.8 | 4% | 4% | 8.7 | 8.1 | -6% | -6% | 2.1 | 2.2 | 1% | 1% | 3.6 | 3.9 | 9% | 9% |
| 99 | January | 3.0 | 3.1 | 1% | 1% | 6.6 | 6.9 | 5% | 5% | 10.3 | 10.8 | 5% | 5% | 7.9 | 7.6 | -4% | -4% | 2.0 | 2.0 | 1% | 1% | 3.3 | 3.6 | 9% | 9% |
| 99 | February | 2.6 | 2.7 | 7% | 7% | 5.7 | 6.3 | 11% | 11% | 8.9 | 9.9 | 12% | 12% | 6.7 | 7.0 | 4% | 4% | 1.8 | 1.9 | 1% | 1% | 3.1 | 3.3 | 6% | 6% |
| 99 | March | 9.2 | 8.5 | -7% | -7% | 20.1 | 19.3 | -4% | -4% | 26.5 | 25.5 | -4% | -4% | 21.2 | 26.8 | 27% | 27% | 3.9 | 2.7 | -31% | -31% | 10.0 | 9.6 | -4% | -4% |
| 99 | April | 25.6 | 25.3 | -1% | -1% | 55.7 | 56.7 | 2% | 2% | 65.6 | 66.9 | 2% | 2% | 44.8 | 49.7 | 11% | 11% | 16.7 | 14.6 | -13% | -13% | 29.6 | 29.4 | -1% | -1% |
| 99 | May | 53.6 | 53.3 | -1% | -1% | 116.5 | 117.1 | 1% | 1% | 143.1 | 142.5 | 0% | 0% | 99.8 | 100.1 | 0% | 0% | 36.0 | 31.9 | -12% | -11% | 60.4 | 60.5 | 0% | 0% |
| 99 | June | 12.4 | 12.0 | -3% | -1% | 25.5 | 26.2 | 3% | 1% | 33.5 | 34.1 | 2% | 0% | 26.2 | 27.1 | 3% | 1% | 6.6 | 6.1 | -8% | -1% | 12.7 | 13.1 | 3% | 1% |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 99 | July | 6.3 | 6.1 | -3% | -1% | 13.0 | 12.9 | -1% | 0% | 19.1 | 18.6 | -3% | -1% | 14.2 | 12.9 | -10% | -5% | 3.8 | 3.8 | 0% | 0% | 6.3 | 6.3 | 1% | 0% |
| 99 | August | 5.4 | 5.3 | -2% | -2% | 11.0 | 10.9 | -1% | -1% | 16.5 | 16.1 | -2% | -2% | 12.3 | 11.1 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.3 | 5.3 | -1% | -1% |
| 99 | September | 6.5 | 6.4 | -2% | -2% | 13.5 | 13.6 | 1% | 1% | 19.3 | 19.2 | 0% | 0% | 15.4 | 16.2 | 5% | 5% | 3.5 | 3.3 | -7% | -7% | 6.7 | 6.5 | -2% | -2% |
| 99 | October | 6.5 | 6.1 | -7% | -7% | 13.4 | 13.1 | -3% | -3% | 19.1 | 18.5 | -3% | -3% | 15.0 | 14.9 | 0% | 0% | 3.5 | 3.4 | -4% | -4% | 6.5 | 6.5 | 0% | 0% |
| 99 | November | 4.8 | 4.9 | 0% | 0% | 10.1 | 10.4 | 3% | 3% | 14.7 | 15.2 | 3% | 3% | 11.2 | 10.7 | -5% | -5% | 3.1 | 3.1 | 1% | 1% | 5.1 | 5.2 | 1% | 1% |
| 99 | December | 4.3 | 4.2 | -1% | -1% | 9.0 | 9.2 | 2% | 2% | 13.3 | 13.7 | 3% | 3% | 10.2 | 9.4 | -7% | -7% | 2.8 | 2.8 | 1% | 1% | 4.5 | 4.7 | 4% | 4% |
| 100 | January | 3.7 | 3.7 | 0% | 0% | 8.0 | 8.1 | 1% | 1% | 12.0 | 12.3 | 3% | 3% | 9.1 | 8.6 | -6% | -6% | 2.5 | 2.5 | 1% | 1% | 4.1 | 4.1 | 2% | 2% |
| 100 | February | 3.0 | 3.4 | 11% | 11% | 6.6 | 7.3 | 10% | 10% | 9.9 | 11.3 | 14% | 14% | 7.5 | 8.0 | 6% | 6% | 2.3 | 2.4 | 1% | 1% | 3.8 | 3.7 | -2% | -2% |
| 100 | March | 3.5 | 3.3 | -6% | -6% | 7.5 | 7.6 | 1% | 1% | 11.0 | 11.4 | 4% | 4% | 8.3 | 8.3 | 0% | 0% | 2.3 | 2.3 | 1% | 1% | 3.8 | 4.0 | 7% | 7% |
| 100 | April | 10.5 | 10.0 | -5% | -5% | 22.8 | 22.7 | 0% | 0% | 29.1 | 29.1 | 0% | 0% | 22.1 | 28.4 | 28% | 28% | 5.1 | 3.9 | -24% | -18% | 11.8 | 11.5 | -3% | -3% |
| 100 | May | 32.2 | 31.1 | -3% | -3% | 69.9 | 69.2 | -1% | -1% | 83.0 | 82.2 | -1% | -1% | 55.3 | 58.4 | 6% | 5% | 21.1 | 18.6 | -12% | -7% | 36.1 | 35.8 | -1% | 0% |
| 100 | June | 14.6 | 14.1 | -3% | -1% | 30.7 | 31.2 | 2% | 0% | 38.3 | 38.4 | 0% | 0% | 28.0 | 29.6 | 6% | 2% | 8.4 | 7.7 | -9% | -2% | 15.7 | 15.9 | 1% | 0% |
| 100 | July | 6.1 | 5.8 | -5% | -2% | 12.9 | 12.8 | -1% | 0% | 18.4 | 17.9 | -3% | -1% | 13.4 | 12.2 | -9% | -4% | 3.8 | 3.8 | 1% | 0% | 6.3 | 6.5 | 2% | 1% |
| 100 | August | 5.3 | 5.2 | -1% | -1% | 11.0 | 11.0 | 0% | 0% | 15.9 | 15.8 | -1% | -1% | 11.9 | 10.8 | -9% | -9% | 3.4 | 3.4 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 100 | September | 4.4 | 4.7 | 6% | 6% | 9.3 | 9.7 | 5% | 5% | 13.7 | 14.3 | 5% | 5% | 10.5 | 9.9 | -6% | -6% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.7 | -1% | -1% |
| 100 | October | 5.0 | 4.8 | -5% | -5% | 10.5 | 10.3 | -2% | -2% | 15.1 | 15.0 | -1% | -1% | 12.1 | 12.0 | -1% | -1% | 3.0 | 2.9 | -2% | -2% | 5.1 | 5.1 | -1% | -1% |
| 100 | November | 4.0 | 4.1 | 2% | 2% | 8.5 | 9.2 | 7% | 7% | 12.5 | 13.5 | 8% | 8% | 9.7 | 9.4 | -3% | -3% | 2.6 | 2.6 | 0% | 0% | 4.4 | 4.8 | 8% | 8% |
| 100 | December | 3.6 | 3.6 | 0% | 0% | 7.9 | 8.4 | 7% | 7% | 11.6 | 12.4 | 7% | 7% | 8.8 | 8.4 | -4% | -4% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.5 | 12% | 12% |
| 101 | January | 3.3 | 3.3 | 1% | 1% | 7.2 | 8.0 | 11% | 11% | 10.6 | 11.7 | 11% | 11% | 8.0 | 7.8 | -2% | -2% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.4 | 18% | 18% |
| 101 | February | 2.7 | 3.0 | 12% | 12% | 6.0 | 6.9 | 14% | 14% | 8.9 | 10.4 | 17% | 17% | 6.5 | 7.2 | 10% | 10% | 2.1 | 2.1 | 1% | 1% | 3.5 | 3.6 | 4% | 4% |
| 101 | March | 2.7 | 2.8 | 0% | 0% | 6.2 | 6.6 | 5% | 5% | 9.1 | 9.8 | 8% | 8% | 6.6 | 6.6 | 1% | 1% | 1.9 | 2.0 | 1% | 1% | 3.3 | 3.6 | 9% | 9% |
| 101 | April | 52.2 | 53.6 | 3% | 3% | 115.9 | 119.9 | 4% | 4% | 138.2 | 142.5 | 3% | 3% | 92.1 | 102.2 | 11% | 11% | 36.4 | 30.8 | -15% | -15% | 62.9 | 62.4 | -1% | -1% |
| 101 | May | 85.4 | 85.9 | 1% | 1% | 183.5 | 185.5 | 1% | 1% | 227.1 | 229.0 | 1% | 1% | 165.1 | 164.6 | 0% | 0% | 56.1 | 49.2 | -12% | -12% | 94.6 | 94.5 | 0% | 0% |
| 101 | June | 50.4 | 51.2 | 2% | 2% | 106.5 | 110.3 | 4% | 3% | 135.1 | 138.4 | 2% | 2% | 100.1 | 101.8 | 2% | 2% | 32.7 | 29.0 | -11% | -8% | 55.7 | 56.0 | 1% | 1% |
| 101 | July | 7.0 | 6.9 | -1% | -1% | 14.0 | 14.6 | 4% | 2% | 21.1 | 21.1 | 0% | 0% | 15.9 | 14.1 | -11% | -6% | 3.7 | 3.7 | 1% | 0% | 6.5 | 7.1 | 10% | 3% |
| 101 | August | 5.8 | 5.7 | -1% | -1% | 11.6 | 11.6 | 0% | 0% | 17.6 | 17.1 | -3% | -3% | 13.3 | 11.9 | -11% | -11% | 3.3 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 101 | September | 4.9 | 5.0 | 2% | 2% | 9.8 | 10.1 | 3% | 3% | 15.0 | 15.1 | 1% | 1% | 11.7 | 10.8 | -8% | -8% | 2.9 | 3.0 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 101 | October | 4.7 | 4.6 | -3% | -3% | 9.5 | 9.3 | -1% | -1% | 14.7 | 14.2 | -3% | -3% | 11.5 | 10.5 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.5 | 4.4 | -1% | -1% |
| 101 | November | 4.1 | 4.1 | 1% | 1% | 8.2 | 8.9 | 9% | 9% | 12.8 | 13.5 | 5% | 5% | 10.0 | 9.5 | -5% | -5% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.5 | 12% | 12% |
| 101 | December | 3.7 | 3.7 | -1% | -1% | 7.7 | 8.0 | 4% | 4% | 12.1 | 12.3 | 2% | 2% | 9.2 | 8.7 | -6% | -6% | 2.2 | 2.3 | 1% | 1% | 3.7 | 4.0 | 7% | 7% |
| 102 | January | 3.3 | 3.3 | -1% | -1% | 7.0 | 7.0 | 0% | 0% | 11.0 | 11.0 | 0% | 0% | 8.3 | 7.9 | -4% | -4% | 2.1 | 2.1 | -2% | -2% | 3.5 | 3.5 | 0% | 0% |
| 102 | February | 2.7 | 2.9 | 9% | 9% | 5.8 | 6.7 | 15% | 15% | 9.1 | 10.5 | 15% | 15% | 6.9 | 7.4 | 7% | 7% | 1.9 | 1.9 | 1% | 1% | 3.3 | 3.5 | 8% | 8% |
| 102 | March | 10.3 | 9.5 | -7% | -7% | 22.5 | 21.7 | -3% | -3% | 29.4 | 28.2 | -4% | -4% | 22.9 | 28.6 | 25% | 25% | 4.5 | 3.3 | -28% | -28% | 11.3 | 10.9 | -3% | -3% |
| 102 | April | 24.3 | 23.9 | -2% | -2% | 52.7 | 53.6 | 2% | 2% | 62.4 | 63.5 | 2% | 2% | 43.0 | 47.6 | 11% | 11% | 15.7 | 13.8 | -12% | -12% | 27.9 | 27.8 | -1% | -1% |
| 102 | May | 33.4 | 32.2 | -3% | -3% | 71.7 | 71.0 | -1% | -1% | 88.6 | 86.5 | -2% | -2% | 61.1 | 61.7 | 1% | 1% | 21.6 | 19.3 | -11% | -6% | 36.7 | 36.5 | -1% | 0% |
| 102 | June | 7.0 | 6.7 | -5% | -1% | 14.7 | 14.9 | 1% | 0% | 21.1 | 20.8 | -1% | 0% | 15.8 | 15.6 | -1% | 0% | 4.0 | 4.0 | -1% | 0% | 7.4 | 7.6 | 3% | 0% |
| 102 | July | 5.9 | 5.6 | -4% | -2% | 12.2 | 12.0 | -1% | 0% | 17.8 | 17.2 | -3% | -1% | 13.3 | 12.1 | -9% | -4% | 3.6 | 3.6 | 1% | 0% | 5.9 | 5.9 | 0% | 0% |
| 102 | August | 5.0 | 5.0 | -1% | -1% | 10.3 | 10.3 | 0% | 0% | 15.3 | 15.2 | -1% | -1% | 11.7 | 10.6 | -9% | -9% | 3.1 | 3.2 | 0% | 0% | 5.0 | 5.0 | 0% | 0% |
| 102 | September | 6.0 | 5.9 | -1% | -1% | 12.4 | 12.5 | 1% | 1% | 17.7 | 17.9 | 1% | 1% | 14.2 | 15.1 | 6% | 6% | 3.3 | 3.1 | -7% | -7% | 6.1 | 6.0 | -2% | -2% |
| 102 | October | 13.1 | 12.3 | -6% | -6% | 28.2 | 27.7 | -2% | -2% | 35.7 | 34.8 | -3% | -3% | 27.7 | 30.6 | 10% | 10% | 6.7 | 5.7 | -15% | -15% | 14.2 | 14.1 | 0% | 0% |
| 102 | November | 5.5 | 5.4 | -1% | -1% | 11.5 | 12.3 | 7% | 7% | 16.4 | 17.3 | 6% | 6% | 12.3 | 11.6 | -5% | -5% | 3.6 | 3.6 | 1% | 1% | 5.8 | 6.4 | 10% | 10% |
| 102 | December | 4.8 | 4.8 | 0% | 0% | 10.3 | 10.7 | 4% | 4% | 14.7 | 15.3 | 4% | 4% | 11.0 | 10.1 | -8% | -8% | 3.3 | 3.3 | 1% | 1% | 5.1 | 5.5 | 7% | 7% |
| 103 | January | 4.2 | 4.3 | 1% | 1% | 9.1 | 9.6 | 6% | 6% | 13.1 | 14.0 | 6% | 6% | 9.9 | 9.1 | -8% | -8% | 2.9 | 3.0 | 0% | 0% | 4.6 | 5.0 | 10% | 10% |
| 103 | February | 3.5 | 3.8 | 8% | 8% | 7.6 | 8.5 | 12% | 12% | 11.1 | 12.6 | 14% | 14% | 8.4 | 8.4 | 0% | 0% | 2.6 | 2.6 | 1% | 1% | 4.2 | 4.4 | 7% | 7% |
| 103 | March | 3.4 | 3.4 | 1% | 1% | 7.4 | 7.6 | 3% | 3% | 10.9 | 11.5 | 6% | 6% | 8.2 | 7.9 | -4% | -4% | 2.4 | 2.4 | 1% | 1% | 3.8 | 4.0 | 4% | 4% |
| 103 | April | 4.1 | 4.0 | -3% | -2% | 8.8 | 8.9 | 1% | 1% | 12.6 | 13.1 | 4% | 2% | 9.9 | 11.1 | 12% | 8% | 2.5 | 2.4 | -6% | -2% | 4.5 | 4.5 | 0% | 0% |
| 103 | May | 67.6 | 67.6 | 0% | 0% | 149.2 | 149.5 | 0% | 0% | 179.3 | 178.8 | 0% | 0% | 121.7 | 126.9 | 4% | 4% | 46.0 | 39.7 | -14% | -14% | 78.4 | 77.3 | -1% | -1% |
| 103 | June | 53.1 | 54.3 | 2% | 2% | 113.0 | 117.4 | 4% | 4% | 140.8 | 146.0 | 4% | 4% | 102.4 | 105.9 | 3% | 3% | 35.1 | 31.0 | -12% | -8% | 59.6 | 59.8 | 0% | 0% |
| 103 | July | 6.8 | 6.5 | -4% | -2% | 13.6 | 13.9 | 2% | 1% | 20.2 | 20.0 | -1% | 0% | 15.2 | 13.7 | -10% | -5% | 3.6 | 3.7 | 2% | 1% | 6.3 | 6.9 | 9% | 2% |
| 103 | August | 5.7 | 5.6 | -1% | -1% | 11.5 | 11.5 | 0% | 0% | 17.3 | 16.8 | -3% | -3% | 13.1 | 11.8 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.4 | 0% | 0% |
| 103 | September | 4.9 | 5.0 | 2% | 2% | 9.8 | 10.0 | 3% | 3% | 14.9 | 14.9 | 0% | 0% | 11.5 | 10.8 | -6% | -6% | 2.9 | 3.0 | 0% | 0% | 4.7 | 4.7 | 0% | 0% |
| 103 | October | 4.5 | 4.4 | -1% | -1% | 9.0 | 8.9 | 0% | 0% | 13.9 | 13.6 | -2% | -2% | 10.8 | 9.8 | -9% | -9% | 2.6 | 2.6 | 1% | 1% | 4.3 | 4.2 | -1% | -1% |
| 103 | November | 4.3 | 4.2 | -2% | -2% | 8.6 | 8.9 | 3% | 3% | 13.2 | 13.5 | 2% | 2% | 10.4 | 10.1 | -3% | -3% | 2.5 | 2.5 | 1% | 1% | 4.2 | 4.4 | 4% | 4% |
| 103 | December | 3.9 | 3.8 | -3% | -3% | 7.9 | 8.2 | 3% | 3% | 12.3 | 12.5 | 2% | 2% | 9.5 | 9.0 | -5% | -5% | 2.3 | 2.3 | 1% | 1% | 3.9 | 4.2 | 8% | 8% |
| 104 | January | 3.4 | 3.4 | -1% | -1% | 7.2 | 7.3 | 2% | 2% | 11.1 | 11.4 | 2% | 2% | 8.4 | 8.1 | -4% | -4% | 2.1 | 2.1 | 0% | 0% | 3.6 | 3.7 | 4% | 4% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | February | 2.7 | 3.0 | 10% | 10% | 5.9 | 6.7 | 12% | 12% | 9.2 | 10.4 | 14% | 14% | 7.0 | 7.5 | 8% | 8% | 2.0 | 2.0 | 1% | 1% | 3.4 | 3.4 | 1% | 1% |
| 104 | March | 2.8 | 2.8 | 0% | 0% | 6.2 | 6.5 | 6% | 6% | 9.4 | 10.1 | 7% | 7% | 7.0 | 6.9 | -1% | -1% | 1.8 | 1.9 | 1% | 1% | 3.2 | 3.5 | 11% | 11% |
| 104 | April | 15.7 | 15.4 | -2% | -2% | 34.9 | 35.3 | 1% | 1% | 42.8 | 42.9 | 0% | 0% | 31.3 | 39.6 | 26% | 26% | 8.8 | 6.8 | -23% | -23% | 18.5 | 18.1 | -2% | -2% |
| 104 | May | 57.6 | 57.2 | -1% | -1% | 125.6 | 125.9 | 0% | 0% | 151.5 | 151.2 | 0% | 0% | 103.5 | 105.3 | 2% | 2% | 38.7 | 34.0 | -12% | -12% | 65.3 | 65.0 | 0% | 0% |
| 104 | June | 38.4 | 39.0 | 2% | 1% | 81.6 | 84.6 | 4% | 3% | 102.1 | 105.5 | 3% | 2% | 75.1 | 77.8 | 3% | 3% | 25.0 | 22.3 | -11% | -6% | 42.8 | 43.1 | 1% | 0% |
| 104 | July | 6.6 | 6.3 | -4% | -2% | 13.4 | 13.7 | 2% | 1% | 19.9 | 19.7 | -1% | 0% | 14.8 | 13.4 | -9% | -5% | 3.6 | 3.7 | 1% | 0% | 6.4 | 6.8 | 7% | 2% |
| 104 | August | 5.6 | 5.5 | -1% | -1% | 11.3 | 11.2 | 0% | 0% | 17.0 | 16.5 | -3% | -3% | 12.9 | 11.5 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.4 | 5.3 | -1% | -1% |
| 104 | September | 4.7 | 4.8 | 2% | 2% | 9.5 | 9.8 | 3% | 3% | 14.6 | 14.7 | 1% | 1% | 11.3 | 10.4 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 104 | October | 12.3 | 11.6 | -6% | -6% | 26.3 | 25.8 | -2% | -2% | 34.3 | 33.0 | -4% | -4% | 27.4 | 30.4 | 11% | 11% | 6.0 | 5.0 | -17% | -17% | 13.1 | 13.0 | 0% | 0% |
| 104 | November | 5.2 | 5.2 | -1% | -1% | 10.8 | 11.3 | 5% | 5% | 15.8 | 16.3 | 3% | 3% | 11.9 | 11.1 | -7% | -7% | 3.2 | 3.2 | 1% | 1% | 5.3 | 5.7 | 7% | 7% |
| 104 | December | 4.7 | 4.6 | -1% | -1% | 9.7 | 9.8 | 1% | 1% | 14.3 | 14.5 | 1% | 1% | 10.8 | 9.7 | -10% | -10% | 3.0 | 3.0 | 1% | 1% | 4.7 | 4.8 | 2% | 2% |
| 105 | January | 4.2 | 4.1 | -2% | -2% | 8.7 | 8.9 | 3% | 3% | 12.9 | 13.3 | 3% | 3% | 9.8 | 8.9 | -9% | -9% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.5 | 6% | 6% |
| 105 | February | 3.3 | 3.6 | 12% | 12% | 6.9 | 7.8 | 12% | 12% | 10.5 | 12.0 | 14% | 14% | 8.0 | 8.2 | 3% | 3% | 2.4 | 2.4 | 1% | 1% | 3.9 | 3.9 | 1% | 1% |
| 105 | March | 3.4 | 3.3 | -3% | -3% | 7.4 | 7.5 | 2% | 2% | 11.1 | 11.6 | 4% | 4% | 8.5 | 8.2 | -4% | -4% | 2.3 | 2.3 | 2% | 2% | 3.8 | 3.9 | 4% | 4% |
| 105 | April | 13.8 | 13.8 | 0% | 0% | 30.4 | 31.7 | 4% | 4% | 37.7 | 39.1 | 4% | 4% | 28.0 | 35.8 | 28% | 28% | 7.8 | 6.3 | -19% | -19% | 16.0 | 15.8 | -2% | -2% |
| 105 | May | 38.3 | 36.1 | -6% | -6% | 83.0 | 80.0 | -4% | -4% | 100.0 | 96.0 | -4% | -3% | 66.5 | 66.4 | 0% | 0% | 25.5 | 22.5 | -12% | -8% | 42.8 | 42.8 | 0% | 0% |
| 105 | June | 68.5 | 73.4 | 7% | 7% | 148.2 | 160.0 | 8% | 8% | 183.6 | 197.3 | 7% | 7% | 132.7 | 141.0 | 6% | 6% | 47.3 | 41.8 | -12% | -11% | 79.3 | 79.4 | 0% | 0% |
| 105 | July | 6.8 | 6.6 | -3% | -1% | 13.9 | 14.5 | 4% | 2% | 20.7 | 20.8 | 1% | 0% | 15.3 | 13.8 | -10% | -5% | 3.8 | 3.8 | 1% | 0% | 6.6 | 7.3 | 12% | 3% |
| 105 | August | 5.7 | 5.6 | -2% | -2% | 11.7 | 11.6 | -1% | -1% | 17.5 | 17.0 | -3% | -3% | 13.2 | 11.9 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 105 | September | 4.9 | 5.0 | 2% | 2% | 9.8 | 10.1 | 3% | 3% | 14.9 | 15.1 | 1% | 1% | 11.5 | 10.7 | -7% | -7% | 3.0 | 3.0 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 105 | October | 7.2 | 6.8 | -6% | -6% | 14.8 | 14.5 | -3% | -3% | 21.1 | 20.3 | -4% | -4% | 17.3 | 18.2 | 5% | 5% | 3.3 | 3.0 | -11% | -11% | 7.1 | 6.9 | -2% | -2% |
| 105 | November | 4.8 | 4.8 | 1% | 1% | 9.8 | 10.3 | 6% | 6% | 14.6 | 15.1 | 4% | 4% | 11.3 | 10.6 | -6% | -6% | 2.9 | 2.9 | 1% | 1% | 4.8 | 5.1 | 6% | 6% |
| 105 | December | 4.3 | 4.2 | -1% | -1% | 8.8 | 9.2 | 4% | 4% | 13.3 | 13.7 | 3% | 3% | 10.2 | 9.3 | -8% | -8% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.7 | 9% | 9% |
| 106 | January | 3.7 | 3.7 | -1% | -1% | 7.9 | 8.1 | 2% | 2% | 12.0 | 12.3 | 3% | 3% | 9.1 | 8.5 | -6% | -6% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.1 | 5% | 5% |
| 106 | February | 3.0 | 3.3 | 11% | 11% | 6.5 | 7.3 | 13% | 13% | 9.9 | 11.3 | 14% | 14% | 7.5 | 7.9 | 5% | 5% | 2.2 | 2.2 | 0% | 0% | 3.6 | 3.7 | 2% | 2% |
| 106 | March | 3.0 | 3.0 | 0% | 0% | 6.6 | 7.1 | 8% | 8% | 10.0 | 10.8 | 8% | 8% | 7.6 | 7.3 | -3% | -3% | 2.0 | 2.1 | 1% | 1% | 3.4 | 3.9 | 14% | 14% |
| 106 | April | 6.9 | 6.6 | -5% | -5% | 14.9 | 15.1 | 2% | 1% | 20.3 | 20.6 | 2% | 2% | 17.0 | 21.7 | 28% | 28% | 3.0 | 2.2 | -28% | -12% | 7.5 | 7.6 | 1% | 0% |
| 106 | May | 57.8 | 57.3 | -1% | -1% | 127.3 | 127.2 | 0% | 0% | 152.2 | 151.1 | -1% | -1% | 101.7 | 105.5 | 4% | 4% | 39.4 | 34.3 | -13% | -13% | 66.7 | 66.1 | -1% | -1% |
| 106 | June | 64.7 | 66.9 | 3% | 3% | 139.0 | 144.8 | 4% | 4% | 172.8 | 179.8 | 4% | 4% | 125.8 | 129.4 | 3% | 3% | 43.9 | 38.7 | -12% | -11% | 73.8 | 74.0 | 0% | 0% |
| 106 | July | 6.8 | 6.5 | -4% | -2% | 13.6 | 13.9 | 2% | 1% | 20.3 | 20.0 | -1% | -1% | 15.2 | 13.6 | -10% | -5% | 3.6 | 3.7 | 1% | 0% | 6.3 | 6.9 | 8% | 2% |
| 106 | August | 5.7 | 5.6 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.7 | -3% | -3% | 13.1 | 11.7 | -10% | -10% | 3.3 | 3.3 | 1% | 1% | 5.3 | 5.3 | 0% | 0% |
| 106 | September | 4.8 | 4.9 | 2% | 2% | 9.6 | 9.9 | 3% | 3% | 14.7 | 14.8 | 1% | 1% | 11.4 | 10.6 | -7% | -7% | 2.9 | 2.9 | 1% | 1% | 4.7 | 4.7 | 0% | 0% |
| 106 | October | 7.8 | 7.4 | -6% | -6% | 16.1 | 15.7 | -2% | -2% | 22.6 | 21.7 | -4% | -4% | 18.8 | 20.2 | 8% | 8% | 3.4 | 2.9 | -14% | -14% | 7.6 | 7.5 | -1% | -1% |
| 106 | November | 4.8 | 4.8 | -1% | -1% | 9.9 | 10.2 | 4% | 4% | 14.7 | 15.0 | 2% | 2% | 11.3 | 10.6 | -6% | -6% | 2.9 | 2.9 | 1% | 1% | 4.8 | 5.1 | 5% | 5% |
| 106 | December | 4.3 | 4.3 | -1% | -1% | 8.9 | 9.0 | 1% | 1% | 13.5 | 13.5 | 1% | 1% | 10.2 | 9.4 | -8% | -8% | 2.7 | 2.7 | 1% | 1% | 4.3 | 4.4 | 2% | 2% |
| 107 | January | 3.8 | 3.7 | -1% | -1% | 8.0 | 8.3 | 4% | 4% | 12.1 | 12.5 | 3% | 3% | 9.2 | 8.6 | -7% | -7% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.3 | 9% | 9% |
| 107 | February | 3.1 | 3.4 | 7% | 7% | 6.7 | 7.4 | 9% | 9% | 10.3 | 11.4 | 10% | 10% | 7.8 | 7.9 | 1% | 1% | 2.2 | 2.2 | 1% | 1% | 3.7 | 3.8 | 3% | 3% |
| 107 | March | 3.2 | 3.1 | -2% | -2% | 6.9 | 7.5 | 10% | 10% | 10.4 | 11.3 | 9% | 9% | 7.9 | 7.8 | -2% | -2% | 2.1 | 2.1 | 1% | 1% | 3.5 | 4.2 | 20% | 20% |
| 107 | April | 42.4 | 43.0 | 1% | 1% | 94.1 | 96.7 | 3% | 3% | 112.5 | 115.2 | 2% | 2% | 75.6 | 84.7 | 12% | 12% | 29.4 | 24.9 | -15% | -15% | 51.0 | 50.3 | -1% | -1% |
| 107 | May | 60.6 | 60.8 | 0% | 0% | 130.7 | 132.1 | 1% | 1% | 161.5 | 162.4 | 1% | 1% | 116.3 | 116.9 | 0% | 0% | 39.8 | 35.0 | -12% | -12% | 67.5 | 67.6 | 0% | 0% |
| 107 | June | 30.2 | 30.0 | -1% | 0% | 63.2 | 64.8 | 3% | 1% | 80.7 | 82.1 | 2% | 1% | 60.1 | 61.7 | 3% | 2% | 18.8 | 16.9 | -10% | -4% | 32.6 | 32.8 | 1% | 0% |
| 107 | July | 6.7 | 6.5 | -3% | -1% | 13.7 | 13.8 | 1% | 0% | 20.4 | 20.1 | -2% | -1% | 15.2 | 13.7 | -10% | -5% | 3.7 | 3.8 | 1% | 0% | 6.5 | 6.8 | 4% | 1% |
| 107 | August | 5.6 | 5.5 | 0% | 0% | 11.4 | 11.4 | 0% | 0% | 17.2 | 16.8 | -2% | -2% | 13.0 | 11.7 | -10% | -10% | 3.4 | 3.4 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 107 | September | 4.8 | 4.9 | 2% | 2% | 9.7 | 9.9 | 3% | 3% | 14.8 | 14.9 | 1% | 1% | 11.3 | 10.5 | -7% | -7% | 2.9 | 3.0 | 0% | 0% | 4.7 | 4.7 | 0% | 0% |
| 107 | October | 11.1 | 10.5 | -6% | -6% | 23.7 | 23.2 | -2% | -2% | 31.4 | 30.1 | -4% | -4% | 25.5 | 28.3 | 11% | 11% | 5.2 | 4.3 | -18% | -18% | 11.7 | 11.6 | -1% | -1% |
| 107 | November | 5.4 | 5.3 | -2% | -2% | 11.1 | 11.6 | 5% | 5% | 16.2 | 16.8 | 3% | 3% | 12.3 | 11.6 | -6% | -6% | 3.2 | 3.3 | 1% | 1% | 5.4 | 5.9 | 8% | 8% |
| 107 | December | 4.8 | 4.7 | -1% | -1% | 10.0 | 10.5 | 6% | 6% | 14.7 | 15.3 | 4% | 4% | 11.0 | 10.0 | -9% | -9% | 3.1 | 3.1 | 1% | 1% | 4.9 | 5.5 | 12% | 12% |
| 108 | January | 4.2 | 4.2 | -1% | -1% | 8.8 | 9.0 | 2% | 2% | 13.1 | 13.5 | 2% | 2% | 9.9 | 9.2 | -8% | -8% | 2.7 | 2.8 | 1% | 1% | 4.4 | 4.5 | 4% | 4% |
| 108 | February | 3.3 | 3.7 | 11% | 11% | 7.1 | 7.9 | 11% | 11% | 10.7 | 12.1 | 13% | 13% | 8.1 | 8.4 | 4% | 4% | 2.5 | 2.5 | 1% | 1% | 4.0 | 3.9 | 0% | 0% |
| 108 | March | 3.6 | 3.5 | -4% | -4% | 7.8 | 7.7 | -1% | -1% | 11.7 | 11.8 | 1% | 1% | 8.9 | 8.6 | -3% | -3% | 2.4 | 2.4 | 0% | 0% | 3.9 | 3.9 | 1% | 1% |
| 108 | April | 21.2 | 21.0 | -1% | -1% | 46.7 | 47.5 | 2% | 2% | 55.8 | 56.8 | 2% | 2% | 39.7 | 47.1 | 19% | 19% | 13.3 | 11.1 | -17% | -17% | 24.9 | 24.5 | -1% | -1% |
| 108 | May | 44.0 | 43.0 | -2% | -2% | 95.1 | 94.7 | 0% | 0% | 116.6 | 114.9 | -2% | -2% | 79.2 | 80.5 | 2% | 2% | 29.2 | 25.8 | -12% | -9% | 49.1 | 48.8 | -1% | 0% |
| 108 | June | 27.3 | 27.4 | 0% | 0% | 57.9 | 59.6 | 3% | 1% | 72.8 | 75.0 | 3% | 2% | 53.7 | 55.8 | 4% | 3% | 17.5 | 15.8 | -10% | -4% | 30.2 | 30.4 | 1% | 0% |
| 108 | July | 6.6 | 6.4 | -4% | -2% | 13.8 | 13.9 | 1% | 0% | 20.2 | 20.0 | -1% | -1% | 14.8 | 13.5 | -9% | -4% | 3.9 | 3.9 | 1% | 0% | 6.7 | 7.0 | 5% | 1% |
| 108 | August | 5.5 | 5.5 | -1% | -1% | 11.5 | 11.5 | 0% | 0% | 17.1 | 16.9 | -1% | -1% | 12.8 | 11.6 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.6 | 5.6 | 0% | 0% |

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| 108 | September | 27.4 | 27.3 | 0% | 0% | 59.1 | 60.5 | 2% | 2% | 73.2 | 74.6 | 2% | 2% | 53.6 | 58.0 | 8% | 8% | 17.6 | 15.3 | -13% | -13% | 31.2 | 31.1 | 0% | 0% |
| 108 | October | 6.3 | 6.0 | -4% | -4% | 13.0 | 13.3 | 2% | 2% | 19.1 | 19.1 | 0% | 0% | 14.1 | 12.8 | -9% | -9% | 3.7 | 3.7 | 1% | 1% | 6.3 | 6.7 | 6% | 6% |
| 108 | November | 5.2 | 5.3 | 2% | 2% | 10.7 | 11.2 | 4% | 4% | 16.0 | 16.4 | 3% | 3% | 11.8 | 11.1 | -6% | -6% | 3.4 | 3.4 | 0% | 0% | 5.4 | 5.5 | 2% | 2% |
| 108 | December | 4.7 | 4.7 | 1% | 1% | 9.7 | 9.9 | 2% | 2% | 14.6 | 14.8 | 1% | 1% | 11.2 | 10.1 | -9% | -9% | 3.0 | 3.0 | 1% | 1% | 4.7 | 4.8 | 2% | 2% |
| 109 | January | 4.1 | 4.2 | 1% | 1% | 8.6 | 8.8 | 2% | 2% | 13.1 | 13.4 | 2% | 2% | 10.1 | 9.3 | -8% | -8% | 2.6 | 2.7 | 1% | 1% | 4.3 | 4.4 | 2% | 2% |
| 109 | February | 3.3 | 3.7 | 13% | 13% | 7.0 | 8.2 | 17% | 17% | 10.8 | 12.6 | 17% | 17% | 8.3 | 8.6 | 4% | 4% | 2.4 | 2.4 | 1% | 1% | 3.9 | 4.2 | 8% | 8% |
| 109 | March | 3.6 | 3.5 | -2% | -2% | 7.8 | 8.3 | 7% | 7% | 11.7 | 12.5 | 6% | 6% | 9.2 | 8.9 | -3% | -3% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.4 | 14% | 14% |
| 109 | April | 20.1 | 19.9 | -1% | -1% | 44.3 | 44.9 | 1% | 1% | 53.2 | 54.0 | 2% | 2% | 38.6 | 45.9 | 19% | 19% | 12.3 | 10.1 | -17% | -17% | 23.6 | 23.1 | -2% | -2% |
| 109 | May | 46.3 | 45.5 | -2% | -2% | 100.4 | 100.1 | 0% | 0% | 123.0 | 121.5 | -1% | -1% | 84.4 | 85.7 | 1% | 1% | 30.9 | 27.2 | -12% | -10% | 51.9 | 51.5 | -1% | -1% |
| 109 | June | 19.5 | 19.3 | -1% | 0% | 40.8 | 41.8 | 2% | 1% | 51.9 | 53.2 | 3% | 1% | 38.9 | 40.7 | 5% | 2% | 11.7 | 10.6 | -9% | -2% | 20.9 | 21.1 | 1% | 0% |
| 109 | July | 6.5 | 6.2 | -4% | -2% | 13.6 | 13.5 | 0% | 0% | 19.8 | 19.4 | -2% | -1% | 14.6 | 13.4 | -9% | -4% | 3.9 | 3.9 | 1% | 0% | 6.6 | 6.8 | 3% | 1% |
| 109 | August | 5.5 | 5.4 | -1% | -1% | 11.4 | 11.4 | 0% | 0% | 16.9 | 16.6 | -1% | -1% | 12.6 | 11.5 | -9% | -9% | 3.5 | 3.5 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 109 | September | 4.7 | 4.8 | 3% | 3% | 9.7 | 10.0 | 3% | 3% | 14.5 | 14.9 | 3% | 3% | 11.1 | 10.4 | -6% | -6% | 3.0 | 3.1 | 0% | 0% | 4.8 | 4.8 | 0% | 0% |
| 109 | October | 7.2 | 6.8 | -5% | -5% | 14.9 | 14.6 | -2% | -2% | 20.9 | 20.4 | -3% | -3% | 17.0 | 18.2 | 7% | 7% | 3.4 | 3.0 | -11% | -11% | 7.2 | 7.0 | -2% | -2% |
| 109 | November | 4.7 | 4.7 | 1% | 1% | 9.7 | 10.4 | 8% | 8% | 14.2 | 15.2 | 6% | 6% | 11.0 | 10.4 | -5% | -5% | 2.9 | 2.9 | 1% | 1% | 4.9 | 5.4 | 9% | 9% |
| 109 | December | 4.1 | 4.1 | 0% | 0% | 8.8 | 9.1 | 4% | 4% | 13.0 | 13.6 | 4% | 4% | 9.9 | 9.2 | -7% | -7% | 2.7 | 2.7 | 1% | 1% | 4.4 | 4.7 | 7% | 7% |
| 110 | January | 3.6 | 3.7 | 1% | 1% | 7.8 | 8.0 | 3% | 3% | 11.7 | 12.2 | 5% | 5% | 9.0 | 8.5 | -6% | -6% | 2.4 | 2.5 | 1% | 1% | 4.0 | 4.1 | 3% | 3% |
| 110 | February | 3.9 | 4.1 | 5% | 5% | 8.3 | 9.2 | 11% | 11% | 12.0 | 13.6 | 13% | 13% | 9.6 | 11.2 | 17% | 17% | 2.6 | 2.5 | -5% | -5% | 4.5 | 4.7 | 3% | 3% |
| 110 | March | 11.3 | 10.4 | -8% | -8% | 24.8 | 24.0 | -3% | -3% | 31.4 | 30.4 | -3% | -3% | 23.8 | 28.4 | 19% | 19% | 5.6 | 4.5 | -20% | -20% | 12.6 | 12.3 | -2% | -2% |
| 110 | April | 19.0 | 18.5 | -3% | -3% | 40.8 | 41.4 | 1% | 1% | 48.5 | 49.1 | 1% | 1% | 34.0 | 37.6 | 10% | 10% | 12.1 | 10.8 | -11% | -11% | 21.4 | 21.3 | -1% | -1% |
| 110 | May | 35.4 | 34.2 | -3% | -3% | 76.3 | 75.5 | -1% | -1% | 93.5 | 91.9 | -2% | -1% | 63.3 | 64.3 | 1% | 1% | 23.4 | 21.0 | -11% | -7% | 39.2 | 38.9 | -1% | -1% |
| 110 | June | 6.3 | 6.2 | -2% | 0% | 13.3 | 13.7 | 3% | 0% | 19.0 | 19.2 | 1% | 0% | 13.9 | 13.2 | -5% | -1% | 4.0 | 4.0 | 1% | 0% | 6.7 | 7.0 | 3% | 0% |
| 110 | July | 5.5 | 5.5 | -1% | 0% | 11.6 | 11.5 | 0% | 0% | 16.8 | 16.6 | -1% | -1% | 12.5 | 11.4 | -9% | -4% | 3.6 | 3.6 | 1% | 0% | 5.7 | 5.7 | -1% | 0% |
| 110 | August | 4.8 | 4.9 | 0% | 0% | 10.1 | 10.1 | 0% | 0% | 14.9 | 14.9 | 0% | 0% | 11.4 | 10.4 | -9% | -9% | 3.1 | 3.1 | 1% | 1% | 4.9 | 4.9 | 0% | 0% |
| 110 | September | 5.1 | 5.1 | -1% | -1% | 10.7 | 10.8 | 1% | 1% | 15.5 | 15.8 | 2% | 2% | 12.4 | 12.7 | 2% | 2% | 3.1 | 3.0 | -3% | -3% | 5.3 | 5.3 | -1% | -1% |
| 110 | October | 4.6 | 4.4 | -3% | -3% | 9.6 | 9.4 | -1% | -1% | 14.0 | 14.0 | 0% | 0% | 10.9 | 10.3 | -6% | -6% | 2.8 | 2.8 | 1% | 1% | 4.7 | 4.7 | -1% | -1% |
| 110 | November | 3.8 | 3.9 | 3% | 3% | 8.1 | 8.5 | 5% | 5% | 11.9 | 12.8 | 7% | 7% | 9.2 | 9.1 | -1% | -1% | 2.5 | 2.5 | 1% | 1% | 4.2 | 4.4 | 3% | 3% |
| 110 | December | 3.5 | 3.5 | 1% | 1% | 7.6 | 8.3 | 9% | 9% | 11.2 | 12.3 | 10% | 10% | 8.6 | 8.4 | -3% | -3% | 2.3 | 2.4 | 1% | 1% | 3.9 | 4.5 | 16% | 16% |
| 111 | January | 3.2 | 3.2 | 1% | 1% | 7.0 | 7.3 | 5% | 5% | 10.3 | 11.0 | 7% | 7% | 7.8 | 7.7 | -1% | -1% | 2.2 | 2.2 | 1% | 1% | 3.6 | 3.9 | 7% | 7% |
| 111 | February | 2.7 | 2.9 | 8% | 8% | 6.1 | 6.7 | 10% | 10% | 9.0 | 10.2 | 14% | 14% | 6.6 | 7.1 | 8% | 8% | 2.0 | 2.0 | 0% | 0% | 3.4 | 3.5 | 4% | 4% |
| 111 | March | 3.9 | 3.6 | -8% | -8% | 8.4 | 8.6 | 2% | 2% | 12.0 | 12.4 | 4% | 4% | 9.3 | 10.6 | 14% | 14% | 2.2 | 2.1 | -7% | -7% | 4.2 | 4.6 | 9% | 9% |
| 111 | April | 58.8 | 60.5 | 3% | 3% | 130.2 | 134.5 | 3% | 3% | 155.4 | 159.8 | 3% | 3% | 104.8 | 114.6 | 9% | 9% | 40.9 | 34.9 | -15% | -15% | 70.6 | 69.6 | -1% | -1% |
| 111 | May | 48.3 | 47.8 | -1% | -1% | 102.9 | 103.6 | 1% | 1% | 127.3 | 127.6 | 0% | 0% | 92.9 | 93.7 | 1% | 1% | 30.6 | 27.0 | -12% | -10% | 52.4 | 52.7 | 1% | 1% |
| 111 | June | 16.6 | 16.2 | -2% | -1% | 33.9 | 34.6 | 2% | 1% | 44.1 | 44.6 | 1% | 0% | 34.1 | 35.1 | 3% | 1% | 9.1 | 8.3 | -9% | -2% | 17.0 | 17.2 | 2% | 0% |
| 111 | July | 6.6 | 6.4 | -3% | -1% | 13.6 | 13.5 | 0% | 0% | 19.9 | 19.4 | -3% | -1% | 14.9 | 13.6 | -9% | -4% | 3.8 | 3.8 | 1% | 0% | 6.5 | 6.6 | 2% | 1% |
| 111 | August | 5.7 | 5.5 | -2% | -2% | 11.6 | 11.5 | -1% | -1% | 17.2 | 16.7 | -3% | -3% | 12.9 | 11.7 | -10% | -10% | 3.5 | 3.5 | 1% | 1% | 5.5 | 5.5 | 0% | 0% |
| 111 | September | 4.8 | 4.9 | 3% | 3% | 9.8 | 10.1 | 4% | 4% | 14.8 | 15.0 | 2% | 2% | 11.3 | 10.6 | -7% | -7% | 3.0 | 3.1 | 1% | 1% | 4.8 | 4.8 | 0% | 0% |
| 111 | October | 17.2 | 16.3 | -6% | -6% | 37.3 | 36.6 | -2% | -2% | 46.5 | 44.9 | -3% | -3% | 35.4 | 38.8 | 10% | 10% | 9.7 | 8.3 | -14% | -14% | 18.9 | 18.8 | -1% | -1% |
| 111 | November | 6.0 | 5.7 | -4% | -4% | 12.3 | 12.7 | 3% | 3% | 17.9 | 18.1 | 2% | 2% | 13.2 | 12.6 | -5% | -5% | 3.6 | 3.6 | 2% | 2% | 6.0 | 6.4 | 7% | 7% |
| 111 | December | 5.2 | 5.1 | -2% | -2% | 10.7 | 11.0 | 3% | 3% | 15.9 | 16.1 | 1% | 1% | 11.8 | 10.8 | -9% | -9% | 3.3 | 3.3 | 1% | 1% | 5.2 | 5.6 | 6% | 6% |
| 112 | January | 4.5 | 4.5 | 0% | 0% | 9.4 | 9.9 | 4% | 4% | 14.1 | 14.6 | 3% | 3% | 10.6 | 9.8 | -8% | -8% | 2.9 | 2.9 | 1% | 1% | 4.7 | 5.0 | 8% | 8% |
| 112 | February | 3.6 | 4.0 | 11% | 11% | 7.6 | 9.3 | 22% | 22% | 11.5 | 13.7 | 19% | 19% | 8.7 | 9.0 | 3% | 3% | 2.6 | 2.6 | 1% | 1% | 4.2 | 5.0 | 20% | 20% |
| 112 | March | 18.5 | 17.6 | -5% | -5% | 40.4 | 40.2 | -1% | -1% | 49.1 | 48.5 | -1% | -1% | 35.8 | 40.7 | 13% | 13% | 10.8 | 9.1 | -16% | -16% | 20.6 | 20.9 | 1% | 1% |
| 112 | April | 38.1 | 38.3 | 1% | 1% | 82.2 | 84.8 | 3% | 3% | 101.2 | 103.4 | 2% | 2% | 68.7 | 72.1 | 5% | 5% | 26.1 | 23.1 | -11% | -11% | 43.7 | 43.9 | 0% | 0% |
| 112 | May | 92.3 | 93.0 | 1% | 1% | 199.5 | 201.3 | 1% | 1% | 248.6 | 250.6 | 1% | 1% | 180.5 | 178.5 | -1% | -1% | 61.9 | 54.5 | -12% | -12% | 103.3 | 103.0 | 0% | 0% |
| 112 | June | 65.7 | 67.3 | 2% | 2% | 139.7 | 145.1 | 4% | 4% | 177.0 | 182.1 | 3% | 3% | 130.8 | 132.2 | 1% | 1% | 43.8 | 38.8 | -11% | -10% | 73.6 | 73.9 | 0% | 0% |
| 112 | July | 7.5 | 7.4 | -1% | 0% | 15.3 | 16.0 | 5% | 2% | 22.8 | 22.9 | 1% | 0% | 17.1 | 15.3 | -11% | -6% | 4.2 | 4.2 | 1% | 0% | 7.2 | 8.0 | 10% | 3% |
| 112 | August | 6.2 | 6.2 | 0% | 0% | 12.7 | 12.7 | 0% | 0% | 18.9 | 18.5 | -2% | -2% | 14.2 | 12.7 | -10% | -10% | 3.7 | 3.7 | 0% | 0% | 6.1 | 6.0 | -1% | -1% |
| 112 | September | 12.7 | 12.4 | -3% | -3% | 26.6 | 26.9 | 1% | 1% | 35.0 | 34.7 | -1% | -1% | 28.5 | 31.1 | 9% | 9% | 6.4 | 5.5 | -13% | -13% | 13.4 | 13.3 | -1% | -1% |
| 112 | October | 11.6 | 10.9 | -6% | -6% | 24.0 | 23.6 | -1% | -1% | 31.8 | 30.9 | -3% | -3% | 24.5 | 24.7 | 1% | 1% | 6.1 | 5.6 | -8% | -8% | 11.6 | 11.7 | 1% | 1% |
| 112 | November | 6.0 | 6.0 | 0% | 0% | 12.6 | 13.4 | 6% | 6% | 18.3 | 19.1 | 4% | 4% | 13.4 | 12.8 | -5% | -5% | 4.0 | 4.0 | 0% | 0% | 6.3 | 6.9 | 9% | 9% |
| 112 | December | 5.3 | 5.3 | -1% | -1% | 11.1 | 11.2 | 1% | 1% | 16.5 | 16.5 | 0% | 0% | 12.1 | 11.0 | -9% | -9% | 3.6 | 3.6 | 1% | 1% | 5.5 | 5.6 | 1% | 1% |

| Average Monthly Discarge | 1929-2017 | Month | EFSFSR US of SC | EFSFSR DS of MC | SC US of EFSFSR | EFSFSR US of MC | MC US of EFSFSR | MC-6 |
|---|---|---|---|---|---|---|---|---|
| | | January | 9.9 | 8.0 | 6.5 | 3.5 | 2.3 | 4.2 |
| | | February | 9.5 | 7.7 | 6.4 | 3.3 | 1.9 | 3.8 |
| | | March | 10.5 | 8.7 | 7.3 | 3.4 | 2.2 | 4.3 |
| | | April | 24.3 | 19.8 | 15.8 | 6.5 | 6.7 | 11.0 |
| | | May | 116.4 | 82.8 | 66.2 | 40.7 | 37.5 | 52.2 |
| | | June | 138.9 | 116.8 | 80.6 | 48.2 | 48.8 | 70.9 |
| | | July | 42.6 | 38.7 | 29.9 | 14.8 | 13.9 | 22.0 |
| | | August | 17.3 | 15.4 | 12.5 | 7.3 | 4.1 | 7.7 |
| | | September | 13.1 | 11.9 | 9.0 | 5.7 | 3.0 | 5.9 |
| | | October | 12.6 | 11.5 | 8.3 | 5.3 | 3.1 | 5.8 |
| | | November | 12.8 | 10.8 | 8.3 | 4.6 | 3.4 | 5.8 |
| | | December | 11.0 | 9.0 | 7.2 | 3.7 | 2.8 | 4.8 |

For Vlookup Table Use Only

| Average Monthly Discarge | 1929-2017 | Month | EFSFSR US of SC | EFSFSR DS of MC | SC US of EFSFSR | EFSFSR US of MC | MC US of EFSFSR | MC-6 |
|---|---|---|---|---|---|---|---|---|
| | | April | 24.3 | 19.8 | 15.8 | 6.5 | 6.7 | 11.0 |
| | | August | 17.3 | 15.4 | 12.5 | 7.3 | 4.1 | 7.7 |
| | | December | 11.0 | 9.0 | 7.2 | 3.7 | 2.8 | 4.8 |
| | | February | 9.5 | 7.7 | 6.4 | 3.3 | 1.9 | 3.8 |
| | | January | 9.9 | 8.0 | 6.5 | 3.5 | 2.3 | 4.2 |
| | | July | 42.6 | 38.7 | 29.9 | 14.8 | 13.9 | 22.0 |
| | | June | 138.9 | 116.8 | 80.6 | 48.2 | 48.8 | 70.9 |
| | | March | 10.5 | 8.7 | 7.3 | 3.4 | 2.2 | 4.3 |
| | | May | 116.4 | 82.8 | 66.2 | 40.7 | 37.5 | 52.2 |
| | | November | 12.8 | 10.8 | 8.3 | 4.6 | 3.4 | 5.8 |
| | | October | 12.6 | 11.5 | 8.3 | 5.3 | 3.1 | 5.8 |
| | | September | 13.1 | 11.9 | 9.0 | 5.7 | 3.0 | 5.9 |

| Gage ID | USGS Gage Number | Description | Latitude | Longitude | Basin Area ($mi^2$) |
|---|---|---|---|---|---|
| MC US of EFSFSR | 13310850 | Meadow Creek Near Stibnite, ID | 44.88955 | -115.36018 | 5.66 |
| EFSFSR US of MC | 13310800 | EFSF Salmon Above Meadow Creek Near Stibnite, ID | 44.90211 | -115.32576 | 9.06 |
| SC US of EFSFSR | 13311450 | Sugar Creek Near Stibnite, ID | 44.93566 | -115.3361 | 17.94 |
| EFSFSR DS of MC | 13311000 | EFSF Salmon at Stibnite, ID | 44.90578 | -115.32962 | 19.28 |
| EFSFSR US of SC | 13311250 | EFSF Salmon Above Sugar Creek Near Stibnite, ID | 44.93476 | -115.33668 | 24.07 |

# Appendix J-6: Chinook Salmon Critical Habitat Technical Memorandum

This TM was developed and finalized for the Draft EIS in November 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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Technical Memorandum

# APPENDIX J-6

# CHINOOK SALMON CRITICAL HABITAT TECHNICAL MEMORANDUM

Midas Gold Stibnite Project, Idaho

November 12, 2019

Ecosystem Sciences, LLC

Science · Planning · Design

Ecosystem Sciences

Science · Planning · Design

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Prepared for: AECOM

Project Title: Stibnite Gold Project

# Technical Memorandum

Subject: Refining Chinook Salmon Critical Habitat

Date: November 12, 2019

To: AECOM

From: Ecosystem Sciences, LLC

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# 1.0 INTRODUCTION

Because the National Oceanic and Atmospheric Administration (NOAA) Fisheries has not mapped critical habitat for Chinook salmon (*Oncorhynchus tshawytscha*), and the current written description, "all river reaches presently or historically accessible" does not provide a precise basis for analysis, it became necessary to develop a method to define the spatial extent of accessible habitat. This refinement also was necessary because the stream alterations associated with the proposed Stibnite Gold Project (Project) are expected to change the extent of "all reaches presently accessible" following completion of the site reclamation. This baseline was necessary so that the habitat changes associated with the Project could be described.

This technical memorandum presents the methods used to refine the spatial extent of spring/summer-run Chinook salmon critical habitat within the upper East Fork South Fork Salmon River (EFSFSR; Project Study Area) and the results. The results identified refined critical habitat for the EFSFSR above the Yellow Pine pit (YPP). Critical habitat was designated for portions of the EFSFSR below the YPP and within the Sugar Creek drainage area (70 FR 52629).

## 1.1 PURPOSE

NOAA Fisheries (2019) defines critical habitat as:

- Specific areas within the geographical area occupied by the species at the time of listing that contain physical or biological features essential to conservation of the species and that may require special management considerations or protection; and
- Specific areas outside the geographical area occupied by the species if the agency determines that the area itself is essential for conservation.

The focus on critical habitat upstream of the YPP is based on Cooney and Holzer's (2006) Intrinsic Potential (IP) modeling that indicates that the YPP is a passage barrier for Chinook salmon upstream migration in the upper EFSFSR watershed. Although Chinook salmon have not been able to utilize the habitat upstream of the YPP through volitional passage, they have been released upstream of the YPP for many years and have utilized the streams for spawning. The Project would ultimately include filling the YPP and restoring that section of the EFSFSR. Such action would allow volitional Chinook salmon passage into the upper reaches of the EFSFSR (Meadow Creek and upper EFSFSR upstream of Meadow Creek) (**Figure 1**). For these reasons, refining the extent of critical habitat within the Study Area under existing conditions is necessary so that changes in the quantity of this habitat as a result of the proposed Project could be assessed.

## 1.2 APPROACH

The approach to refining critical habitat for Chinook salmon was discussed via email between the United States Forest Service (Forest Service), NOAA Fisheries, and AECOM and through a conference call between the Forest Service, NOAA Fisheries, AECOM, and Ecosystem Sciences on May 13, 2019. The approach focuses on juvenile Chinook salmon upstream migration within the EFSFSR. The agreed-upon approach would identify maximum gradient (percent slope) for Chinook salmon upstream migration based on an existing occurrence dataset (Isaak et al. 2017a) and use that gradient as the cut-off point for critical habitat (i.e., areas with steeper slopes would not be classified as critical habitat). The ultimate purpose is to identify stream reaches within the

upper EFSFSR, most importantly above YPP, in which juvenile Chinook salmon could migrate and to identify the upstream limits of juvenile migration. Once this gradient is established, stream reaches that are downstream of the gradient break (maximum allowable slope) and are contiguous to existing habitat (as defined by the Project IP modeling effort [Ecosystem Sciences 2019a]) would be identified as critical habitat for Chinook salmon.

# 2.0 METHODS

Refining critical habitat for Chinook salmon was a Geographic Information System (GIS) exercise performed in ArcGIS Pro. **Table 1** documents the data used. The following seven-step process was employed to determine critical habitat for Chinook salmon above the YPP.

1. *Join Isaak et al. (2017b) "Dryad Digital Repository" excel file to corresponding NHDPlus flowline* – In ArcGIS Pro, use the "join" tool to match COMID from the NHDPlus flowline dataset to the corresponding COMID in the Dryad Digital Repository excel file.
2. *Extract NHDPlus flowlines that document Chinook salmon occurrences within EFSFSR* – Select all records that are greater than or equal to 1 in the Dryad Digital Repository excel file row named "Chinook." These records indicate that Chinook salmon have been observed in these stream reaches.
3. *Select NHDPlus flowlines that Chinook salmon have migrated through* – Manually select flowlines within the EFSFSR that are downstream of the most upstream known Chinook salmon occurrences documented in Step 2 above. Selection indicates that the species has migrated through these areas to get to the location where they were observed.
4. *Derive slope and stream gradient for all streamlines created in Step 3* – Derive stream gradient per NHDplus flowline that is downstream of the most upstream Chinook salmon occurrence. Derive slope using rise over run method ([start elev – end elev]/length of segment). Derived slope was converted to percent slope (slope*100). The 10-meter Digital Elevation Model (DEM) provided the elevation data.
5. *Summarize slope for steam segments downstream of known Chinook salmon occupied reaches* – Derive distribution and statistics (min, mean, max) for stream segments that are downstream of Chinook salmon occupied reaches.
6. *Determine appropriate passage (percent slope) criteria for Chinook salmon* – Compare slope (gradient) results to Chinook salmon passage literature review (NOAA Fisheries, 2019) (**Table 2**).
7. *Select stream reaches upstream of YPP that fit the slope criteria* – Use analysis results and literature review to select initial critical habitat. Baseline Habitat Occupancy Model (OM) streamlines are used to determine critical habitat above YPP (Ecosystem Sciences 2019b). The OM streamline segments are equivalent to NHDPlus flowline stream segments and thus slope calculations are similar.

**Table 1: Data Used to Refine Chinook Salmon Critical Habitat in the EFSFSR Upstream of the YPP**

| Data | Description | Citation |
|---|---|---|
| NHDPlus Flowlines | National Hydrography Dataset (NHD) for the EFSFSR | Horizon System Corporation. 2019. NHDPlus Version 2. http://www.horizon-systems.com/NHDPlus/NHDPlusV2_home.php |
| Dryad Digital Repository | Chinook salmon occurrence records linked to NHD COMID (database years 1900 – 2011) | Isaak, D. J., Wenger, S. J., and Young, M. K. 2017b. Data from: Big biology meets microclimatology: Defining thermal niches of ectotherms at landscape scales for conservation planning. Dryad Digital Repository. https://doi.org/10.5061/dryad.d0s7k |

| Data | Description | Citation |
|---|---|---|
| Digital Elevation Model (DEM) – 3DEP | 10-meter resolution (1/3 arc second) | U.S. Geological Survey, The National Map, 2017, 3DEP products and services: The National Map, 3D Elevation Program Web page. https://nationalmap.gov/3DEP/3dep_prodserv.html |
| Stibnite Gold Project Intrinsic Potential (IP) Occupancy Model (OM) Streamlines | Streamlines derived for the Stibnite Gold Project Chinook/steelhead IP and OM analysis | Ecosystem Sciences. 2019a. Baseline Intrinsic Potential Model Chinook Salmon and Steelhead. Technical Memorandum. Stibnite Gold Project, Idaho.<br>Ecosystem Sciences. 2019b. Habitat Occupancy Model for Westslope Cutthroat Trout and Bull Trout. Technical Memorandum. Stibnite Gold Project, Idaho. |

# 3.0 RESULTS

Steps 1 and 2, shown in **Figure 2**, depict the reaches of the EFSFSR with known occurrences of Chinook salmon (Isaak et al. 2017b).

Step 3 of the GIS analysis of NHDPlus flowlines downstream from the most upstream known Chinook salmon occurrences within the EFSFSR resulted in the identification of 77 stream segments (**Figure 3**).

The gradient (percent slope) of these segments derived in Step 4 ranged from 0.4 percent to 17.6 percent, with a mean of 4.7 percent (**Figure 4**). The GIS analysis relied on NHDPlus flowlines and a 10-meter resolution DEM. Some of the NHDPlus flowlines do not follow the exact river course and instead traverse hillsides. This imprecision is common with the NHD dataset, as alignment of the dataset to the available DEMs is not exact. Such inaccuracies can affect the slope results per stream segment, often overestimating the metric (i.e., slopes are artificially high).

Steps 5 through 7 identified upstream stream reaches that meet appropriate passage criteria. Seventy-one of the 77 stream segments that are downstream of Chinook salmon occupied reaches had a percent slope of less than 12 percent (**Figure 4**). A slope of 12 percent was chosen as the appropriate passage criteria for Chinook salmon. Using this criterion, and OM streamlines, stream reaches upstream of the YPP were identified as refined critical habitat (**Figure 5**).

**Table 2: Chinook Salmon Habitat Preference Literature Review from NOAA Fisheries (via Johnna Sandow)**

| Findings | Comment | Reference |
|---|---|---|
| Steelhead and Chinook salmon juveniles documented at average gradient of 6.4% | Jackson Creek, OR: 5th order tributary to S. Umpqua R.; Reach 8 had slope of 6.4%; this was the upstream-most reach.<br>Upper extent not determined. | Roper, B. B., Scarnecchia, D. L., and LaMarr, T. J. 1994. Summer distribution of and habitat use by chinook salmon and steelhead within a major basin of the South Umpqua River, Oregon. Transactions of the American Fisheries Society 123:298–308. |
| Juvenile steelhead & Chinook<br>Mean (SD) gradients 4.7% (3.3%) | Documented presence; upper extent not determined. | Burnett, K. M. 2001. Relationships among juvenile anadromous salmonids, their freshwater habitat, and landscape characteristics over multiple years and spatial scales in Elk River, Oregon. Ph.D. Dissertation. Oregon State University, Corvallis, Oregon, USA |
| Juvenile Chinook gradient ranges from 0.7-4.2% | Known presence (due to upstream migration by juveniles) in various tributaries to the Yukon River.<br>Did not attempt to document upstream extent. | Brent, M., and Bradford, M. J. 2004. Importance of large woody debris for juvenile chinook salmon habitat in small boreal forest streams in the upper Yukon River basin, Canada. Canadian Journal of Forest Research. 34(9):1955-1966 |
| Juvenile Chinook documented in 12%<br>Juvenile Steelhead documented in 15% | Documented presence. | Isaak, D. J., Wenger, S. J., and Young M. K. 2017a. Big biology meets microclimatology: Defining thermal niches of aquatic ectotherms at landscape scales for conservation planning. Ecological Applications. 27(3):977-990 |

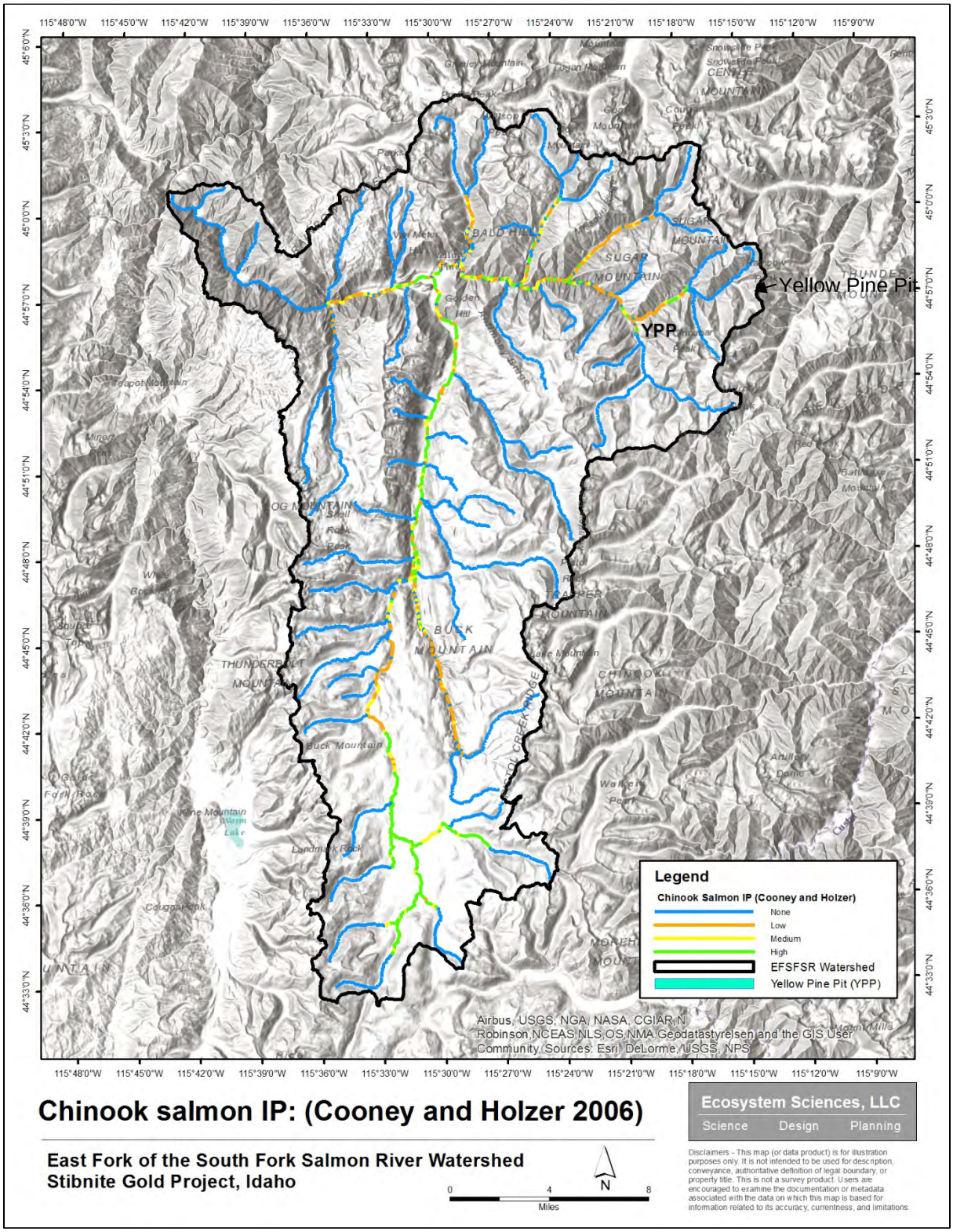



**Figure 1: Study Area and Cooney and Holzer (2006) Intrinsic Potential (IP) Model Results**

Note: No IP habitat upstream of the Yellow Pine pit. CHINRATE is the Chinook salmon IP rating.

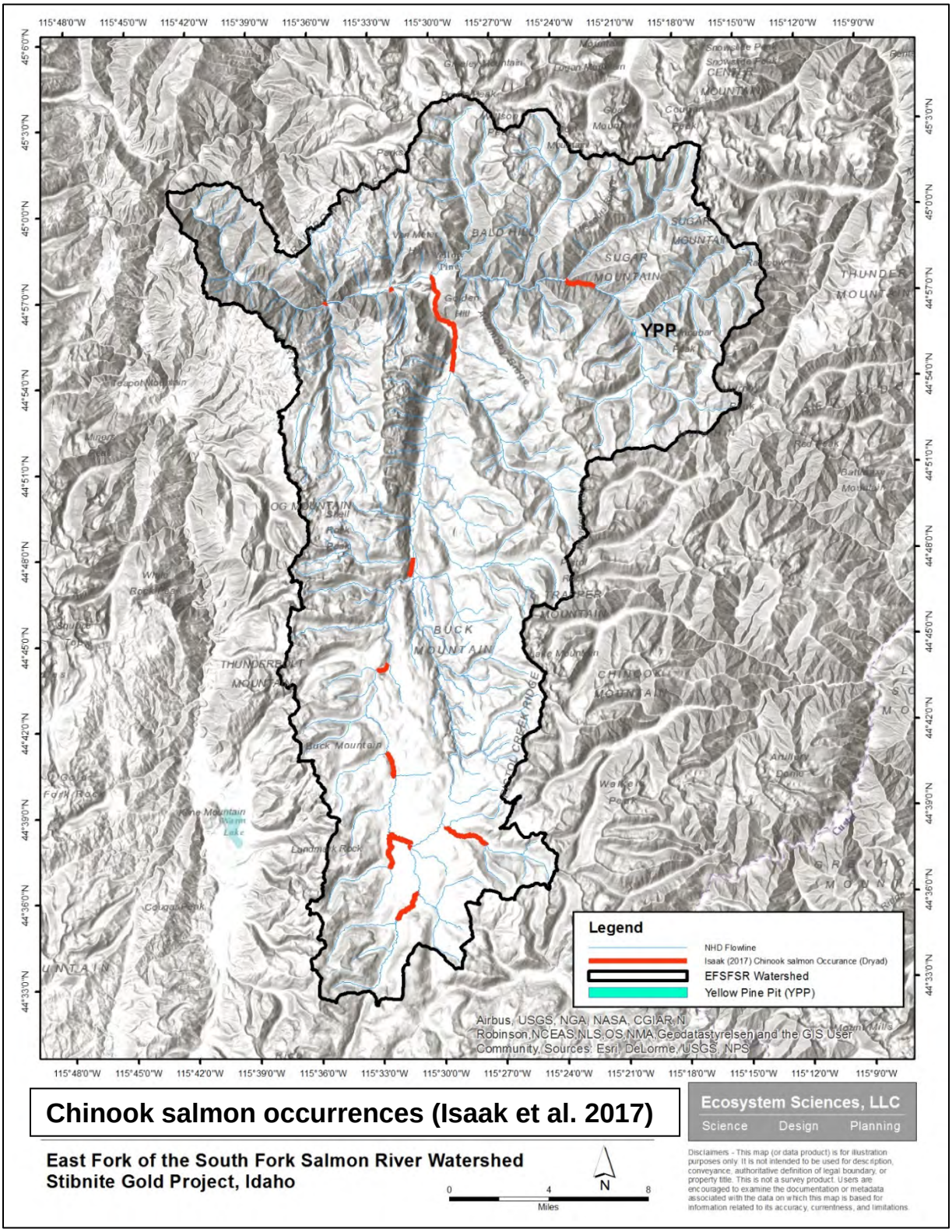



Figure Source: Isaak et al. 2017b

**Figure 2: Reaches of the EFSFSR with known Occurrences of Chinook Salmon**

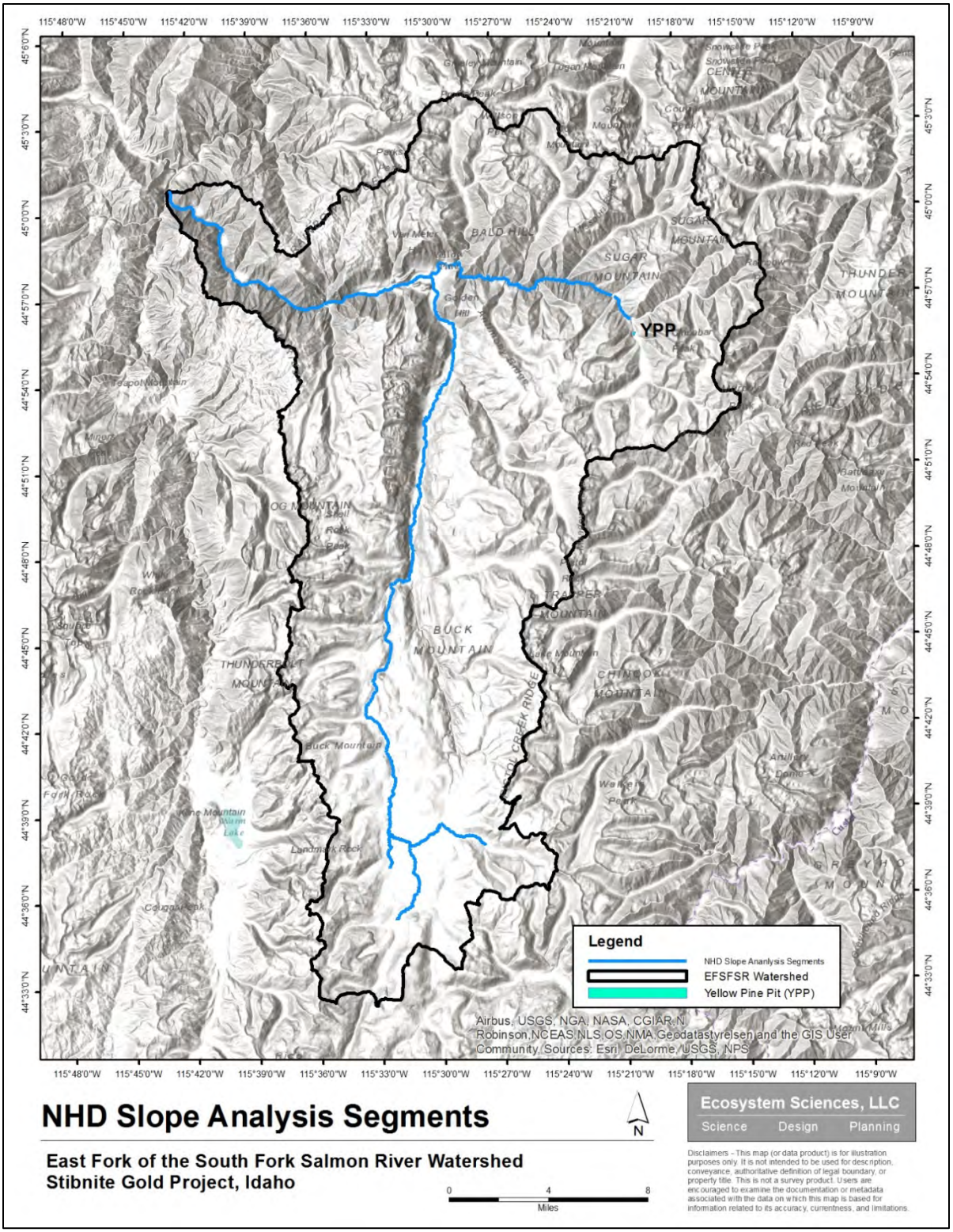



**Figure 3: NHDPlus Flowlines used to Derive Passage (percent slope) Criteria for Chinook Salmon in the EFSFSR Upstream of the YPP**

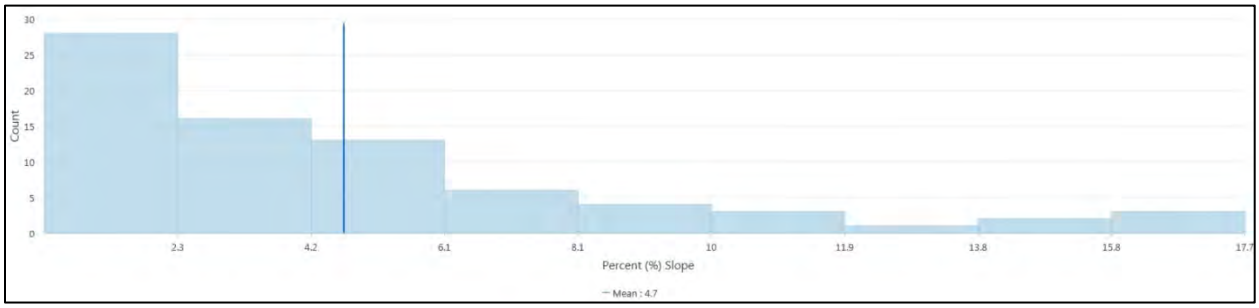



**Figure 4: NHDPlus Flowlines Average Slope Distribution and Mean**

# 4.0 DISCUSSION

NOAA Fisheries (via Johnna Sandow) provided the information presented in **Table 2**, which documents Chinook salmon (and other anadromous fish species) habitat preferences regarding stream gradient. The gradient (percent slope) values documented in **Table 2** are very similar to the results derived in the GIS analysis performed herein. For example, Burnett (2001) noted that mean gradient for juvenile Chinook salmon in Red Cedar Creek, a tributary to the Elk River in southwest Oregon, was 4.7 percent (**Table 2**), which is the same mean percent gradient derived through this GIS analysis (**Figure 4**). Isaak et al. (2017a) noted that juvenile Chinook salmon occurred in stream segments with a percent gradient of 12 percent (**Table 2**). Since 92 percent (71 out of 77) of stream segments within the EFSFSR downstream of known Chinook salmon occurrences had a percent slope of less than or equal to 12 percent, that value was chosen to be the break point (allowable passage) for refining critical habitat for the species in the upper EFSFSR upstream of the YPP (**Figure 5**).

Using these criteria, refined Chinook salmon critical habitat within the upper EFSFSR upstream of the YPP was identified (**Figure 5**). As mentioned in the Section 2.0 Methods, the reaches presented in **Figure 5** are the OM model reaches. The OM model reaches are based on NHD reaches, and their lengths and slope values are like the NHD reaches used to determine the appropriate slope value for Chinook salmon passage. **Figure 5** also includes observed Chinook salmon locations within the Study Area (MWH 2017). The points in **Figure 6** represent aquatic survey locations in which Chinook salmon were observed during snorkel surveys (MWH 2017).

The Study Area includes Sugar Creek and a portion of the upper EFSFSR downstream of Sugar Creek, as these areas match the Chinook salmon and steelhead IP modelling for the Project (Ecosystem Sciences 2019a). The critical habitat results are broken down by stream segments (**Table 3**). Stream segment 1 includes the upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek. Stream segment 2 includes the entirety of the Meadow Creek drainage. Stream segment 3 includes the upper EFSFSR and its tributaries upstream of Meadow Creek. Stream segment 4 is the portion of the upper EFSFSR within the Study Area that is downstream of its confluence with Sugar Creek. Stream segment 5 documents most of the mine-affected area (everything except West End Creek) and includes the upper EFSFSR upstream of Sugar Creek. In summary, stream segment 5 is the summation of stream segments 1, 2, and 3 (**Table 3**). Stream segment 6 includes Sugar Creek and its tributaries.




**Figure 5: Refined Chinook Salmon Critical Habitat in the Stibnite Gold Project Study Area**

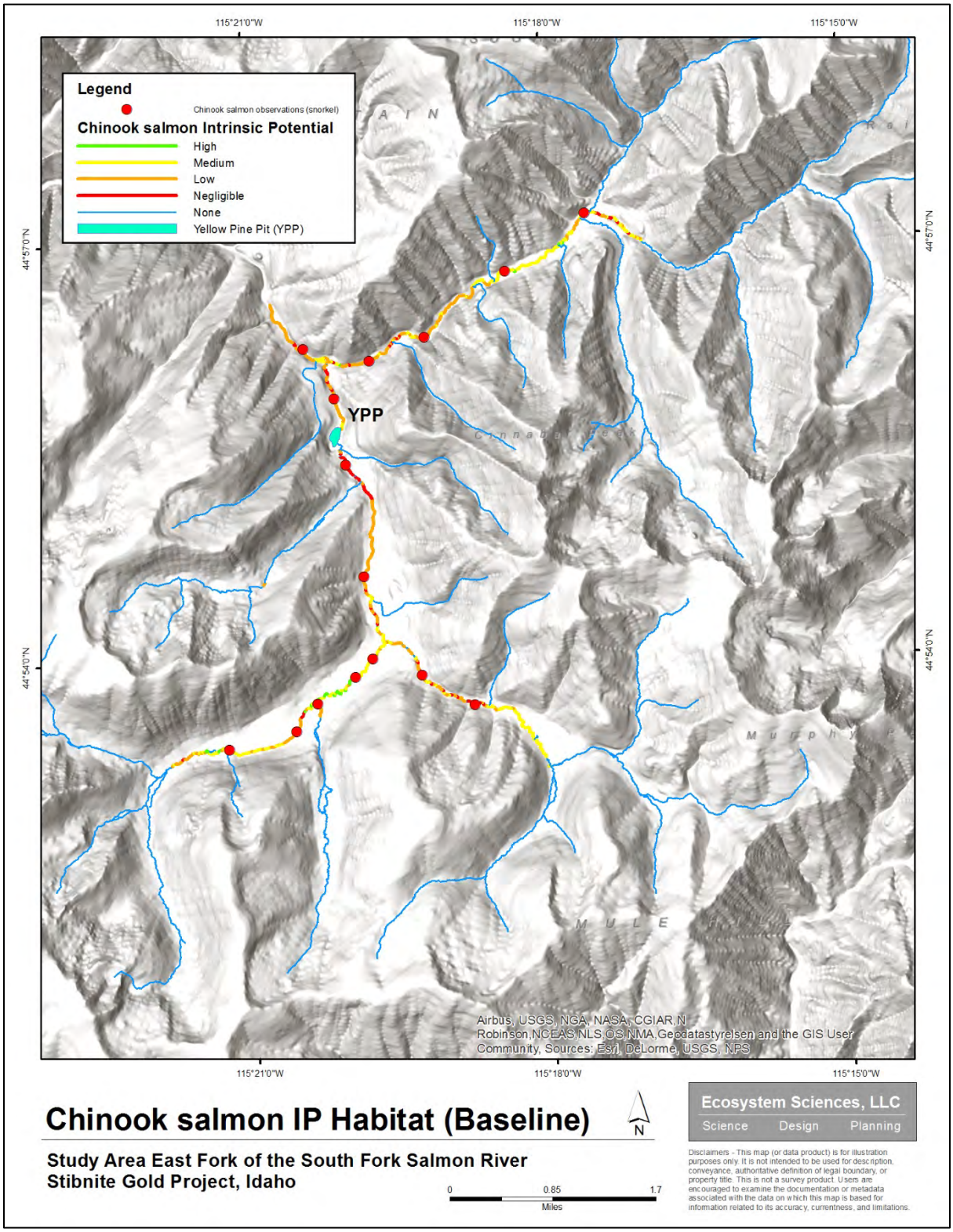



**Figure 6: Chinook Salmon Baseline IP with Chinook Salmon Observations (aquatic survey locations)**

Within the Study Area, 28.6 miles of stream reaches were identified as refined juvenile Chinook salmon critical habitat (**Table 3**, **Figure 5**). Stream segment 5, which includes stream reaches within the upper EFSFSR upstream of Sugar Creek (i.e., Study Area results excluding Sugar Creek), contains 17.2 miles of refined Chinook salmon critical habitat that was identified by the GIS analysis, with 16.5 miles of critical habitat above the YPP (**Figure 5**). Like the baseline IP modeling (Ecosystem Sciences 2019a), the majority of refined critical habitat for juvenile Chinook salmon occurs in the main trunk streams of the area, including Meadow Creek (stream segment 2), the upper EFSFSR upstream of Sugar Creek and downstream of Meadow Creek (stream segment 1), and the upper EFSFSR upstream of Meadow Creek (stream segment 3) (**Table 3**, **Figure 6**). The critical habitat extent includes all baseline fisheries sampling sites (MWH 2017) where Chinook salmon were detected and aligns well with the baseline IP model results (**Figure 6**).

**Table 3: Stream Segment Chinook Salmon Critical Habitat Breakdown (miles per segment)**

| Mine Site Segments | Description | Length (miles) |
|---|---|---|
| Stream Segment 1 | Upper EFSFSR upstream of Sugar Creek and downstream of Meadow Creek | 3.1 |
| Stream Segment 2 | Meadow Creek | 5.5 |
| Stream Segment 3 | Upper EFSFSR upstream of Meadow Creek | 8.6 |
| *Stream Segment 5** | "Mine Site Area" upper EFSFSR (includes segments 1,2, and 3) | *17.2* |
| Stream Segment 4 | Upper EFSFSR downstream of Sugar Creek | 0.7 |
| Stream Segment 6 | Sugar Creek | 10.7 |

* Stream segment 5 is out of order as it is the summation of stream segments 1, 2, and 3.

The NHD data layer is known to have alignment issues with DEM datasets, causing inaccuracies in slope measurements. This might explain the steepest reach values (over 17 percent). However, the initial results and cutoff at 12 percent match well with the existing dataset and with the available literature on the subject. Based on the literature values employed, a 12 percent cutoff is conservative, as many of the other studies have observed lower maximum slope values (**Table 2**).

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# Appendix J-7: Occupancy Modeling Technical Memoranda

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# HABITAT OCCUPANCY MODEL WESTSLOPE CUTTHROAT TROUT AND BULL TROUT EXISTING CONDITIONS

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

Ecosystem Sciences

Science · Planning · Design

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Prepared for: AECOM

Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Habitat Occupancy Model Westslope Cutthroat Trou8t and Bull Trout Existing Conditions

Date: November 22, 2019

To: AECOM

From: Ecosystem Sciences, LLC

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# Definitions

| | |
|---|---|
| Channel Slope | Stream gradient, expressed as a percentage. |
| DEM | Digital Elevation Model. |
| ESA | Endangered Species Act. |
| ESA group | Organizations consistently involved in approximately monthly meetings during the informal consultation process. The principal agencies were Forest Service, USFWS, USACE, NOAA Fisheries, and Midas Gold. There were occasional members and numerous consultants who all participated in the group. |
| EFSFSR | East Fork of the South Fork of the Salmon River. |
| Existing Regional OM | Either of the two example occupancy modeling papers published by the Rocky Mountain Research Station; Isaak et. al. 2015 or Isaak et. al. 2017. |
| Forest Service | United States Forest Service. |
| GIS | Geographic Information System. |
| Occupancy Probability | The probability that the species of interest would occur in a given stream reach based on physical and geomorphic characteristics. For this report, habitat occupancy is determined using methods by Isaak et. al. 2017. |
| Lidar | Light detection and ranging. |
| Midas Gold | Midas Gold Idaho, Inc. |
| Mine Site OM | The occupancy model produced for the study area with mine site scale data inputs for stream temperature, stream discharge, and channel slope. |
| Mine Site OM Reaches | The final set of stream reaches, consisting of merged SFA and NHD Plus Version 2 stream reaches, for which model variables were attributed and occupancy probabilities were produced. |
| NHD | National Hydrography Dataset. |
| OM | Occupancy Model. |
| Rio ASE data | Data collected by Rio ASE as part of the Stibnite Gold Project Stream Design Report (Rio ASE 2018a). |
| RMRS | Rocky Mountain Research Station, which is funded and under the management of the U.S. Forest Service. |
| SPLNT | stream and pit lake network temperature. |
| Streamlines | The ESRI ArcMap shapefile that estimates the precise location of the stream watercourses in the study area. |
| Stream Discharge | Modeled or measured stream discharge associated with a given stream reach. This variable unit of measure is cubic feet per second (CFS). |
| Stream Temperature | Modeled or measured stream temperatures associated with a given stream reach. This variables unit of measure is degrees Celsius. |
| Stream Functional | Stream Functional Assessment. This term refers to the reaches. |
| Assessment (SFA) | in the mine site area for which the SFA was performed, or for the ESRI shapefile with the same name. |
| USFWS | U.S. Fish and Wildlife Service. |
| USACE | United States Army Corps of Engineers. |
| NOAA Fisheries | National Oceanic and Atmospheric Administration, National Marine Fisheries Service. |
| USGS | United States Geological Survey. |
| VIC | Variable Infiltration Capacity. |
| YPP | Yellow Pine pit. |

# 1.0 INTRODUCTION

This technical memorandum details the methods and results used to estimate occupancy probabilities for native westslope cutthroat trout (*Oncorhynchus clarkia lewisi*) and bull trout (*Salvelinus confluentus*) in the mine site study area (see Section 2 for details about the study area). The goal of this report is to present and describe the model used to produce a baseline metric (occupancy probability) that represents the likelihood that the two native trout species occupy stream reaches in the study area. Occupancy probabilities for existing conditions can then be used for comparison with the predicted occupancy probabilities associated with the proposed actions of each alternative; both during and after the proposed life of the mine. This information supports the analysis of impacts on westslope cutthroat trout and bull trout from the Stibnite Gold Project as proposed in Midas Gold Idaho, Inc (Midas Gold) Plan of Restoration and Operations (proposed action) or any action alternative. Occupancy probabilities are the output of an occupancy model designed specifically for this project.

The model and methods described in this technical memorandum and used to develop the occupancy probabilities originate from studies that were developed and published by the Rocky Mountain Research Station (RMRS), a group of scientists funded by the United States Department of Agriculture (Isaak et al. 2015, 2017). The models from these RMRS studies—hereafter referred to as existing regional occupancy models or existing regional OM—were adapted to the scale of the mine site study area, which used data that were collected at the mine site. The resulting project-specific model is hereafter referred to as the mine site occupancy model or mine site OM.

The mine site OM quantifies potential habitat for each stream reach by assigning probabilities that each of the species would occur in a given stream reach. The model calculates occupancy probabilities for each species based on a combination of three independent variables: stream discharge, stream temperature, and channel slope. The resulting occupancy probabilities were then run through a sensitivity analysis, which was used to determine the level of influence that each of the independent variables has on the dependent variable (occupancy probability) in the model. The continuous range of occupancy probabilities are represented in percentages, from 0 to 100 percent for each reach. The model and results support analysis of impacts to the two native trout species and their habitat based on actions as presented in each alternative in the mine site study area. This technical memo specifically describes the predicted baseline (existing) conditions occupancy probabilities.

Section 1.1 details the stakeholders involved in the development of this model. Sections 2 and 3 provide detail about the mine site study area and the existing regional OM, respectively. Section 4 explains the methods that were used to produce mine site OM probabilities, and includes a review of the model study area; the regression equation used; model variables and coefficients used; data inputs and sources for each of the variables used in the model; and parameter transformations that were performed. Section 5 presents the results from the mine site OM (i.e., the occupancy probabilities), and a sensitivity analysis of each model variable. The results are discussed and summarized in Section 6.

## 1.1 CONSULTATION

This model is the result of an extensive consultation process involving members of the Endangered Species Act (ESA) fish informal consultation group (ESA group[1]) involved in the

[1] The ESA group consisted of Forest Service, NOAA Fisheries, USFWS, Midas Gold, and USACE. These entities constituted the core group of participants; however, other entities occasionally attended meetings.

Stibnite Gold Project. The original concept and approach to adapt an existing occupancy model for the region were presented to the ESA group by Ecosystem Sciences on February 7, 2018. Over the course of the next year and half, the methods, data inputs, analysis, and initial baseline results were discussed on numerous conference calls, in-person meetings, and via email correspondence. Following months of consultation, it was determined that the model documented in the publication "*Big biology meets microclimatology: defining thermal niches of ecotherms at landscape scales for conservation planning*" (Isaak et al. 2017) was most suitable for application to this project.

Ecosystem Sciences made numerous presentations at informal ESA consultation meetings beginning in June 2018. Information presented at these meetings included, but was not limited to: scale dependencies; general appropriateness and adaptability of Isaak et al. (2017); derivation and refinement of the streamlines (the Geographic Information System [GIS] shapefile used to represent the specific location of the streams in the mine site study area) to be used; stream segmentation processes; derivation of model variables (stream discharge, stream temperature, and channel slope); sensitivity analyses of model variables; and the utility of applying occupancy probabilities. Numerous modeling decisions regarding scale, data inputs, and other related subjects were made based on ESA group input. For example, the decision to model mine site OM variables using the same methods that were used in the existing regional OM was based on feedback from the ESA group.

# 2.0 STUDY AREA

The mine site OM study area (**Figure 1**) encompasses approximately 43 square miles at the headwaters of the East Fork of the South Fork of the Salmon River (EFSFSR). The Headwaters East Fork South Fork Salmon River (HUC 12 – 170602080201) contains the Stream Functional Assessment (SFA) reaches. Sugar Creek (HUC 12 – 1706020803) is not in the mine site study area. Occupancy probabilities are summarized for four mine site stream segments in the study area. These include Stream Segment 1 (Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek); Stream Segment 2 (Meadow Creek drainage area, including the East Fork Meadow Creek); Stream Segment 3 (Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek); and Stream Segment 5 (HUC 12 "Headwaters East Fork South Fork Salmon River," or the summation of Stream Segments 1, 2, and 3). In total, there are six mine site stream segments. **Appendix A** defines each stream segment, and provides a map showing their respective spatial extent.

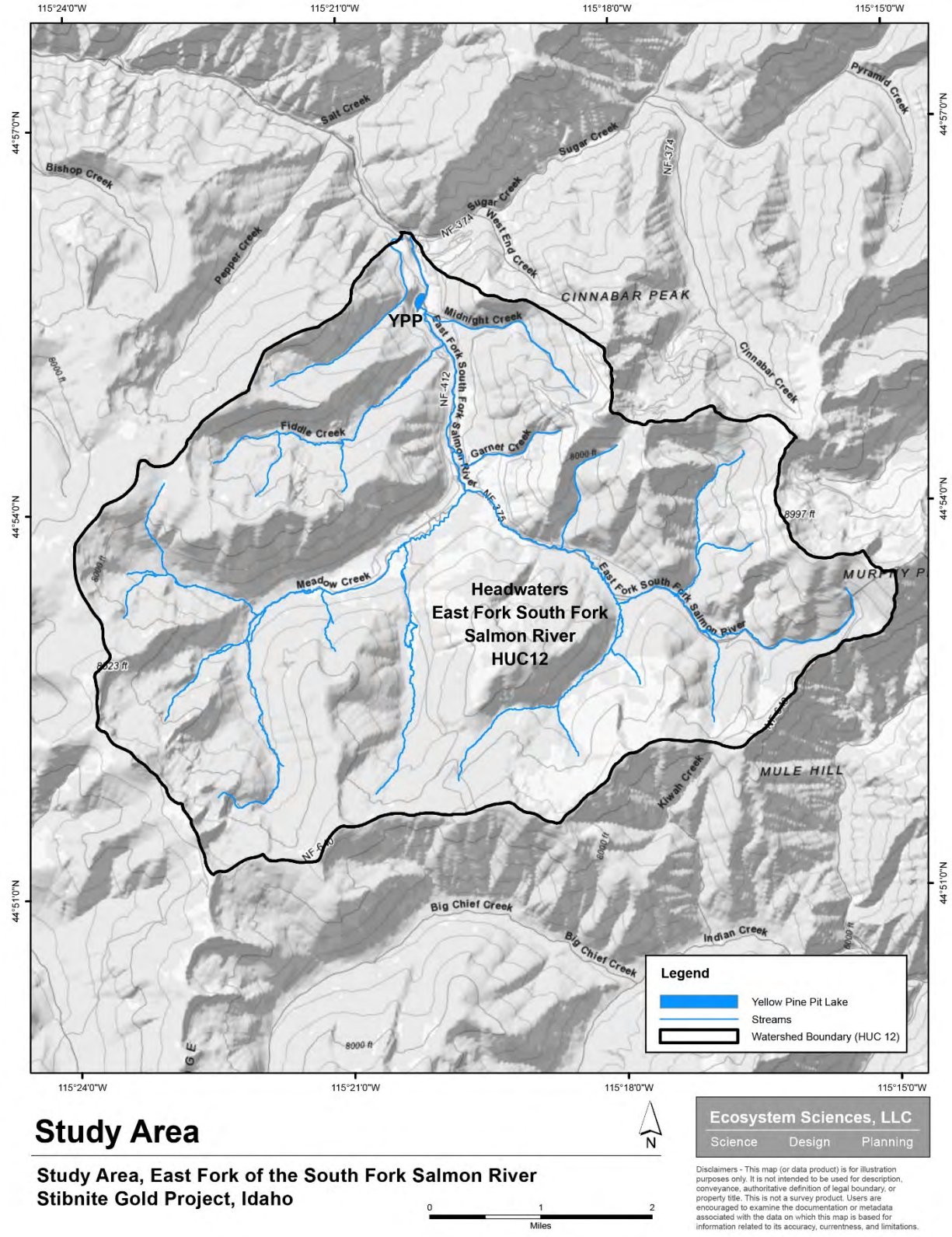
# 3.0 EXISTING REGIONAL OCCUPANCY MODEL AND METHODOLOGY

Following consultation with the ESA group, it was decided to build an occupancy model for the mine site study area. The results of the model could provide information to support the analysis of impacts on westslope cutthroat trout and bull trout, and other associated environmental documentation and determinations, from the proposed action or other alternatives. After reviewing the available literature, the methods and models developed in Isaak et al. 2015, 2017 emerged as appropriate examples that could be adapted for use on the mine site study area. The methods from the two investigations are similar; however, Isaak et al. (2017) was identified as the more appropriate example due to its larger scale (399,000 square kilometers [$km^2$] versus 506,000 $km^2$) and inclusion of stream discharge as a model variable.

The existing regional OM study areas are large stream networks in the Rocky Mountains/Pacific Northwest in Idaho, Montana, and parts of Oregon, Washington, and other adjacent states. Using both GIS-derived and empirical field observations, the existing regional OM studies incorporated stream reach hydrologic, thermal, and topographic conditions (i.e., stream discharge, stream temperature, and channel slope) to evaluate the ability of stream reaches to support populations of native westslope cutthroat trout and bull trout. The stream reach conditions, as represented by the model variables, were "fit" to westslope cutthroat trout and bull trout occurrence datasets (dichotomous presence/absence data) to create parameter estimates that were used in a logistic regression model to produce occupancy probabilities. Logistic regression is a predictive statistical analysis used to describe the relationship between one binary dependent variable (presence/absence of native trout species in sample locations in the dataset), and one or more independent variables, as listed above. By fitting the data to a sigmoidal function and producing the associated coefficients, logistic regression predicts probability of presence of a characteristic of interest (in this case, the occupancy of native trout species).

The species occurrence dataset was compiled from four sources: 1) a previously constructed database of salmonid occurrences for the U.S. Rocky Mountains (Wenger et al. 2011); 2) the MFISH database developed by Montana Fish, Wildlife and Parks (Montana Fish, Wildlife & Parks, n.d.); 3) the Beneficial Use Reconnaissance Program database provided by the Idaho Department of Environmental Quality (Idaho Department of Environmental Quality n.d.); and 4) a dataset of fish and herpetofauna surveys made from 2008 to 2011 in northern Idaho and western Montana (Young et al. 2013). The aggregated database was then filtered by several criteria—for example, only samples taken from 1985 to 2011 were included; and samples taken at sites where the discharge was greater than 1,130 cfs were excluded (see Isaak et al. 2017, for full list of filters).

The final presence/absence dataset included 10,998 individual bull trout sampling events and 19,704 individual westslope cutthroat trout sampling events. Stream conditions at collection sites ranged considerably in the following variables: mean August temperature (3.9 degrees Celsius (°C) to 20.2°C); reach slope (0 to 30 percent), and summer flow in cubic feet per second (cfs) (0 to to105 cfs). Most samples were collected from streams smaller than 3.28 cfs, which constituted the majority of the network (Isaak et al. 2017). **Table 1** reports statistics for the presence/absence data for each of the two species of interest. **Table 2** shows all of the parameter estimates that were produced for cold-water species in Isaak et al. (2017). See **Appendix B** for maps and summary statistics for westslope cutthroat trout and bull trout occurrences from the presence/absence dataset that was used by Isaak et al. (2017). **Figure 2** details the workflow used by Isaak et al. (2017), to determine the occupancy probabilities per stream reach.




## Study Area

**Study Area, East Fork of the South Fork Salmon River**
**Stibnite Gold Project, Idaho**

**Figure 1. Mine Site OM Study Area for Westslope Cutthroat Trout and Bull Trout**

**Table 1. Statistics for Presence/Absence Data used to Fit the Xxisting Regional OM for Westslope Cutthroat Trout and Bull Trout**

| | Bull Trout | | | Westslope Cutthroat Trout | | |
|---|---|---|---|---|---|---|
| | **Sample Size** | | | | | |
| Presence Only | 2,809 | | | 11,543 | | |
| Presence and Absence | 11,417 | | | 19,692 | | |
| Percent of Presence | 24.6% | | | 58.6% | | |
| | **Presence and Absence** | | | | | |
| | **Stream Temperature (°C)** | **Stream Flow (cfs)** | **Channel Slope (%)** | **Stream Temperature (°C)** | **Stream Flow (cfs)** | **Channel Slope (%)** |
| Median | 11.25 | 9.10 | 2.49 | 11.09 | 4.19 | 2.95 |
| Standard Deviation | 2.04 | 22.39 | 3.62 | 2.07 | 19.25 | 3.51 |
| Minimum | 5.63 | 0.00 | 0.00 | 3.90 | 0.00 | 0.00 |
| Maximum | 20.22 | 104.34 | 30.44 | 20.22 | 104.34 | 30.44 |
| | **Presence Only** | | | | | |
| | **Stream Temperature (°C)** | **Stream Flow (cfs)** | **Channel Slope (%)** | **Stream Temperature (°C)** | **Stream Flow (cfs)** | **Channel Slope (%)** |
| Median | 10.58 | 19.09 | 2.10 | 10.85 | 4.20 | 3.30 |
| Standard Deviation | 1.81 | 23.91 | 2.75 | 1.93 | 17.96 | 3.48 |
| Minimum | 5.63 | 0.00 | 0.00 | 4.58 | 0.00 | 0.00 |
| Maximum | 18.28 | 104.34 | 29.28 | 18.53 | 104.34 | 30.44 |

Table Source: Isaak et al. 2017

**Table 2. Parameter Estimates and Standard Errors (in parentheses) for the Multivariate Models Predicting Occurrence of Westslope Cutthroat Trout and Bull Trout (highlighting added)**

| Species | Intercept | Temperature | Temperature$^2$ | Flow† | Slope |
|---|---|---|---|---|---|
| Longnose dace | −6.25 (0.30) | 0.717* (0.131) | −0.221* (0.104) | 0.287* (0.094) | −26.2* (9.12) |
| Speckled dace | −9.84 (1.17) | 2.14* (0.579) | −0.851* (0.325) | −0.332 (0.236) | −55.0* (23.8) |
| Redside shiner | −8.79 (0.69) | 0.946* (0.256) | −0.300 (0.187) | −0.0332 (0.133) | −82.4* (20.8) |
| Longnose sucker | −6.17 (0.33) | 0.438* (0.111) | −0.178 (0.104) | 0.160 (0.103) | −57.1* (11.0) |
| Mountain whitefish | −4.13 (0.18) | 0.196* (0.051) | −0.0577 (0.046) | 0.810* (0.070) | −23.7* (5.70) |
| Cutthroat trout | 0.67 (0.10) | −0.115* (0.021) | −0.108* (0.018) | 0.0876* (0.030) | −3.28* (0.998) |
| Rainbow trout | −2.15 (0.13) | 0.337* (0.035) | −0.136* (0.035) | 0.532* (0.048) | −3.42 (2.42) |
| Chinook salmon | −1.1 (0.21) | 0.265* (0.053) | −0.0807 (0.048) | 0.0635 (0.076) | −44.5* (6.27) |
| Brown trout | −4.85 (0.20) | 0.461* (0.058) | −0.221* (0.053) | 0.438* (0.063) | −15.0* (3.85) |
| Bull trout | −2.39 (0.13) | −0.383* (0.032) | 0.023 (0.035) | 0.674* (0.054) | −9.26* (1.85) |
| Brook trout | −0.74 (0.11) | 0.145* (0.023) | −0.247* (0.025) | −0.0242 (0.033) | −14.4* (1.28) |
| Slimy sculpin | −2.73 (0.13) | 0.194* (0.048) | −0.152* (0.058) | 0.127* (0.063) | −5.84 (3.14) |
| Rocky Mountain tailed frog | −3.32 (0.15) | −0.413* (0.046) | −0.208* (0.065) | 0.154* (0.060) | 3.28 (1.71) |
| Columbia spotted frog | −4.49 (0.15) | 0.256* (0.071) | −0.277* (0.092) | 0.0302 (0.088) | −2.28 (3.99) |

* $P \leq 0.05$.
† Based on natural-log-transformed values.

Table Source: Isaak et al. 2017

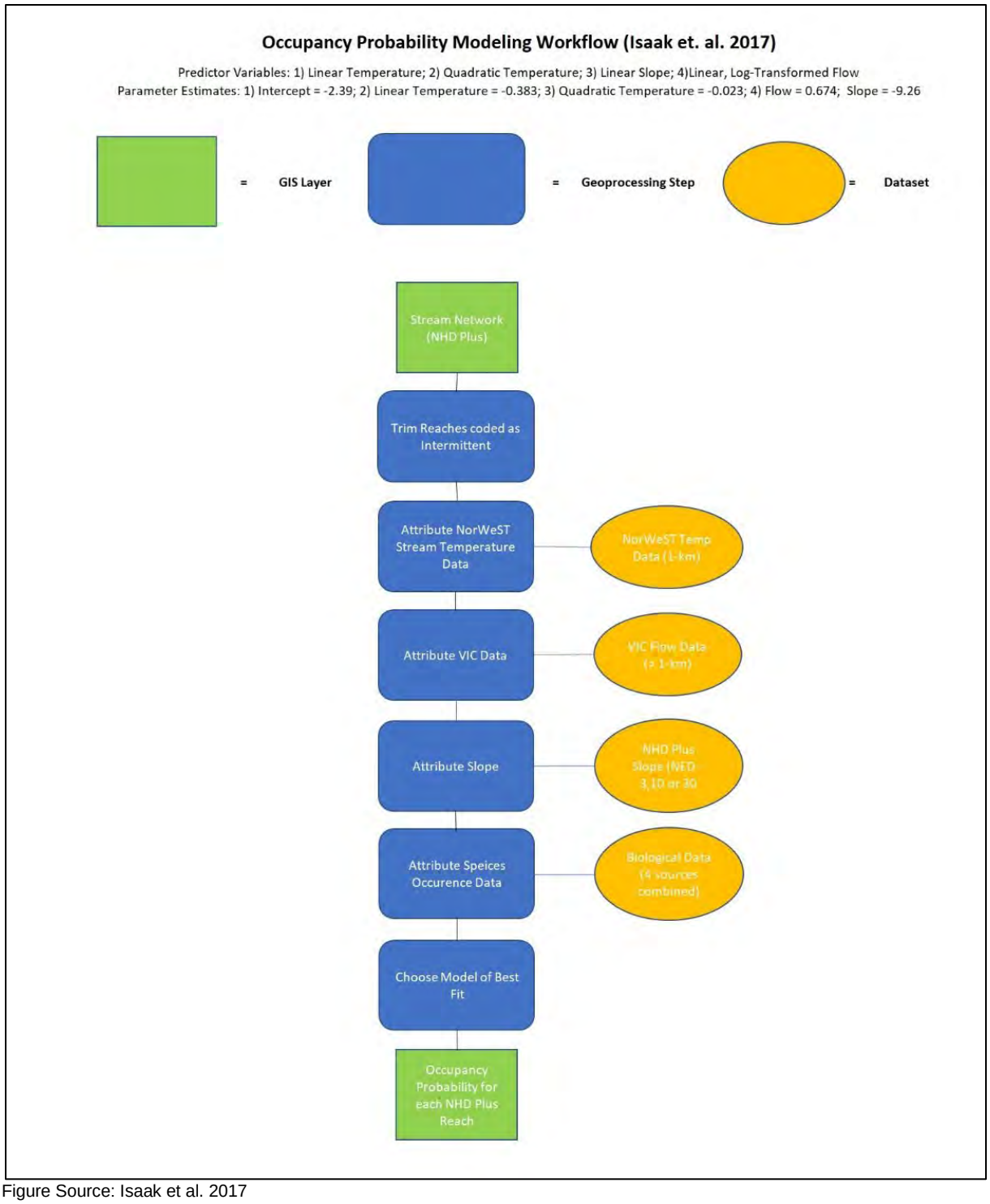



Figure Source: Isaak et al. 2017

**Figure 2. Existing Regional OM Workflow for Westslope Cutthroat Trout and Bull Trout**

# 4.0 MINE SITE OCCUPANCY MODEL AND METHODOLOGY

The mine site OM methodologies closely followed the existing regional OM methodologies from Isaak et al. (2017). However, because the existing regional OM was applied at a much smaller scale than the mine site study area, higher-resolution data inputs (a light detection and ranging Lidar-derived digital elevation model [DEM], reach-based modeled stream and pit lake network temperature [SPLNT], and stream discharge data from Brown and Caldwell 2018a) were used. Two steps from Isaak et al. (2015), were also included—reaches with stream discharges below 0.2 cfs were trimmed from the mine site study area, and headwater reaches with channel slopes above 15 percent were trimmed from the mine site study area. The workflow used in the mine site OM model is detailed in **Figure 3**.

Sections 4.1 through 4.10 describe the process used to adapt the existing regional OM methods to the mine site OM study area.

## 4.1 ASSUMPTIONS

The mine site OM uses key physical habitat variables (stream temperature, stream discharge, and channel slope) to determine the potential of stream reaches to support populations of westslope cutthroat trout and bull trout. Both stream temperature and stream discharge were modeled for existing conditions, and supplied on a reach basis from Brown and Caldwell 2018a and Rio ASE 2018b. Other assumptions included:

1. The existing regional OMs are appropriate model examples, given the physical characteristics that were of concern to the ESA group.
2. The presence/absence dataset that was used to condition the logistic regression equations used to calculate occupancy probabilities accurately reflects the presence/absence of the native trout species of interest in the mine site study area.
3. Stream reaches with slopes greater than 15 percent and discharges less than 0.2 cfs are uninhabitable by the native trout species of interest.

## 4.2 MODELING PROCEDURE

The mine site OM procedure was selected, developed, and run following the general approach described below:

1. Reviewed literature sources for occupancy model examples in the western U.S., including Isaak et al. 2015, 2017. The methods from Isaak et al. (2017) were found to be the best fit as described in Section 3.
2. Determined and confirmed the methods that Isaak et al. (2017) used to produce their model variables and parameter estimates.
3. Created a subset of SFA reaches (perennial streams only) for the mine site OM study area.
4. Added National Hydrography Dataset (NHD) Plus Version 2 reaches upstream of the SFA mine site OM study area. A global naming structure was applied to the final mine site OM study area (Horizon Systems Corporation 2019).
5. Calculated channel slopes for all stream reaches in the final mine site OM study area.

6. Gathered all variable inputs from existing condition reports. Stream temperatures and stream discharges per SFA reach were modeled with the same time frames that were used in Isaak et al. (2017).
7. Transformed all mine site OM model variables using methods in Gelman and Hill (2006).
8. Attributed mine site OM model variables to stream reaches in the final model study area, and paired them with parameter estimates from Isaak et al. (2017) to calculate preliminary occupancy probabilities for each stream reach in the final mine site OM study area.
9. Trimmed headwater stream reaches with channel slopes greater than 15 percent and stream discharges less than 0.2 cfs.
10. Performed Quality Checks on all data inputs and processes.
11. Performed sensitivity analysis to assess the influence of mine site OM variables on mine site OM probabilities.
12. Finalized all OM modeling results and summarized them by each stream segment.

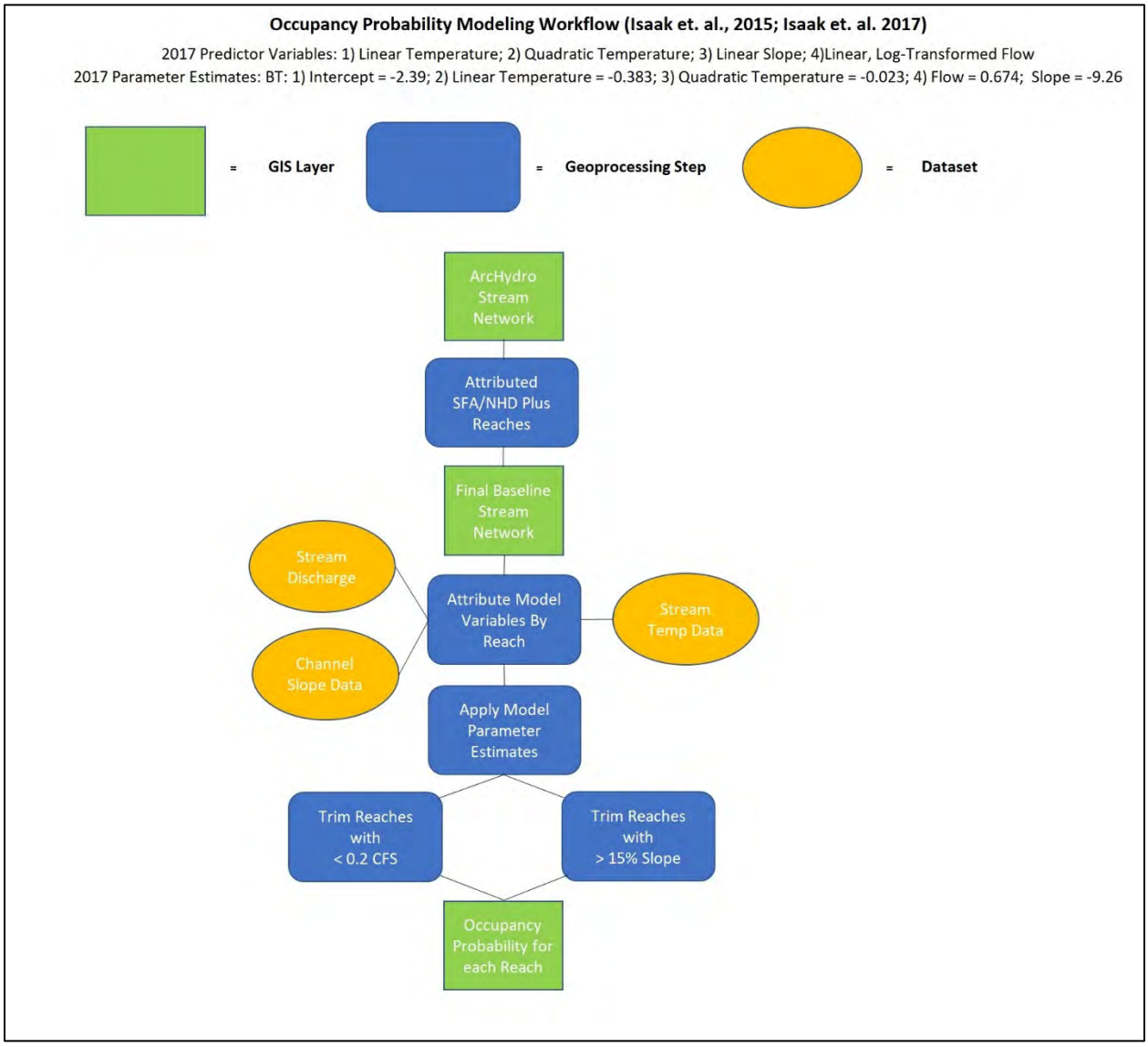



**Figure 3. Mine Site OM Workflow for Westslope Cutthroat Trout and Bull Trout**

## 4.3 DATA EMPLOYED

As detailed in Section 4.2, creating the mine site OM required several steps and inputs. **Table 3** shows the input variables, along with their units of measurement, temporal and spatial resolutions, and the sources of each dataset used in the mine site OM. Stream temperature inputs for the mine site OM were created using the QUAL2K model (Tufts University 2015) and were based on water temperature measurements collected at several sites by the U.S. Geological Survey (USGS) and HDR Engineering, Inc. (HDR 2015). Empirical stream discharge measurements at five gage locations in the study area were used to calibrate a basin-area-to-stream flow regression equation (Rio ASE 2018a). The results provided the stream reach discharges that were used in the mine site OM. Channel slope for each model reach was calculated in GIS by dividing the

elevation loss of each reach (top-of-reach elevation value less bottom-of-reach elevation value) by reach length.

**Table 3. Mine Site OM Variable Metadata**

| | Stream Temperature | Stream Flow | Channel Slope |
|---|---|---|---|
| Unit of Measurement | Mean Stream Temperature (°C) | Mean Stream Discharge (cfs) | Slope (%) |
| Temporal Resolution | August (Period of Record) | July 16-Sept. 30 (Period of Record) | Not Applicable |
| Spatial Resolution | Mine Site OM Reach Study area Scale | Mine Site OM Reach Study area Scale | Mine Site OM Reach Study area Scale |
| Data Source | Final SGP SPLNT Existing Conditions Report (Brown and Caldwell 2018a) | RIO ASE (2018a) | Ecosystem Sciences |

## 4.4 STREAMLINES

The RMRS employed segments derived from the NHD Plus Version 2 flow network to perform the existing regional OM; however, the NHD dataset does not accurately reflect the drainage lines in the mine site study area. Several streamline datasets existed for other analyses in the mine site study area (e.g., Aquatic Resources Study Area streams [MWH 2017]; delineated streams from wetland delineation [MWH 2017]; and Qual2K stream segmentation [Brown and Caldwell 2018a]). Ecosystem Sciences created a streamline file based on LiDAR data for the study area using the ArcHydro application from ESRI (ESRI 2019). The LiDAR-based streamline and other streamline datasets were merged and analyzed to create one layer that accurately represented the stream courses in the study area. Ecosystem Sciences provided this revised stream layer to the ESA group for review and edits. Midas Gold made edits based on their knowledge of the mine site study area. Ecosystem Sciences then made the following changes to the streamline file:

1. Added line segments through culverts to create contiguous study-area–wide stream segments.
2. Removed all but perennial streams from the streamline file. Where streams had multiple channels, the main channel, or larger channel, was used in the model.

## 4.5 STREAM FUNCTIONAL ASSESSMENT REACHES

SFA reaches were provided to Ecosystem Sciences by Midas Gold from Rio ASE (2018a). The SFA reach names were attributed to the finalized streamline file to create the existing conditions SFA reach network used in the mine site OM. NHD Plus Version 2 stream segments were then appended to the SFA reach network to include any headwater stream segments that were unaccounted for in the SFA reach network. The existing SFA naming convention was extended to the headwater reaches to create an all-inclusive final mine site OM stream network with a consistent reach-naming structure.

## 4.6 STREAM TEMPERATURE

Stream temperatures for existing conditions were modeled using QUAL2K, and provided in the SPLNT baseline report (Brown and Caldwell 2018a). These stream temperatures were originally

produced for a time period that did not match the low-flow period used by Isaak et al. 2017. A dedicated model run was performed to output SPLNT reach temperatures that represented mean August temperature in degrees Celsius. SPLNT reaches did not spatially match mine site OM reaches, and a transfer of temperatures was necessary. A distance-weighted average method was used for the transfer—for example, if more than one SPLNT reach occurred in one mine site OM reach, then the temperature for each SPLNT reach was multiplied by its length as a proportion of the entire mine site OM reach length. All temperatures were then added to produce the distance-weighted average for that mine site OM reach. Any mine site OM reaches that occurred upstream of the SPLNT study area were attributed with the stream temperature assigned to the closest downstream SPLNT reach.

Stream temperatures in the mine site OM reach network ranged from 7.91˚C to 11.77˚C, with a mean of 9.71˚C (**Table 4**).

## 4.7 STREAM DISCHARGE

Stream discharge for existing conditions in the study area were originally modelled using MODFLOW, a spatially distributed ground and surface water flow program created by the USGS (Brown and Caldwell 2018b). However, the timeframe of stream discharge that was modeled using the MODFLOW model was inconsistent with the timeframe used in the existing regional OM. The existing regional OM used stream discharge values from the Variable Infiltration Capacity (VIC) hydrologic model, which uses mean summer flow. Mean summer flow describes the lowest-flow period that may be most limiting to fish, and may correlate to maximum water temperature (Isaak et al. 2010). For the VIC model, the start of summer is defined as the first day after June 1 when flows fall below the mean annual value, which ensures that summer starts after the subsidence of the snowmelt flood; the end of summer is defined as September 30, regardless of starting date (Wenger et al. 2010). For the mine site study area, July 16 was calculated to be the start of summer (Rio ASE 2018b). Modelled flows for the July 16 through September 30 timeframe were supplied using a regression equation that links basin area to streamflow measurements taken at various sites in the study area.

Isaak et al. (2015) trimmed reaches in their network that have discharges less than 0.2 cfs because trout are rare in such small streams. The mine site OM used a 0.2-cfs restriction in the headwater reaches of the mine site OM stream network. RIO ASE imposed the flow threshold when outputting flows using their basin area-to-streamflow regression exercise (Rio ASE 2019b). Stream discharge in the mine site OM reach network ranged from 0.24 to 18.87 cfs, with a mean of 4.07 cfs (**Table 4**).

## 4.8 CHANNEL SLOPE

Channel slope for each mine site OM reach was delineated in ArcGIS 10.6 using a 1-meter Lidar DEM. Elevation values associated with the stream network were extracted from the DEM and added to the mine site OM reach stream network. The elevation in meters from the upstream and downstream end of each mine site OM reach were extracted from the DEM, and the difference divided by reach length.

Channel slopes in the mine site OM reach network ranged from 0.5 to 33.1 percent, with a mean of 9.6 percent. Isaak et al. (2015) trimmed reaches in their network that were greater than 15 percent because trout are rare in such high-gradient stream reaches. The mine site OM used a 15 percent restriction in the mine site OM stream reach network. In all, 21 of the 84 reaches (25 percent) were trimmed from the mine site OM reach network—leaving 65 reaches in the mine site OM study area. There were four reaches (EF3.2, MC0.8, HC1.4, and MN2) between in-

network lower gradient reaches that were also trimmed from the OM reach network; all other trimmed reaches were in the headwaters of the network. Most of the potentially occupied habitat for the two species in the study area is limited to the main trunk streams—EFSFSR, Meadow Creek, and their immediate low-gradient tributaries.

**Table 4. Statistics for Mine Site Occupancy Probability Model Variables**

| | Stream Temperature (°C) | Stream Discharge (cfs) | Channel Slope |
|---|---|---|---|
| Min | 7.91 | 0.31 | 0.45 |
| Max | 11.77 | 18.87 | 14.71 |
| Median | 9.98 | 1.66 | 6.03 |
| Mean | 9.83 | 4.96 | 6.33 |
| SD | 1.24 | 6.06 | 4.06 |

## 4.9 MODEL INPUT TRANSFORMATIONS

To produce occupancy probabilities for mine site OM reaches, the site-specific values for each independent variable (stream temperature, stream discharge, and channel slope) had to be matched with the model parameter estimates from Isaak et al. (2017). The parameter estimates and model variables published in Isaak et al. (2017) were back-transformed or changed back to their original scale or units of measurement. To use the parameter estimates from Isaak et al. 2017, they needed to be transformed into a standardized form (unitless). Similarly, all mine site OM variables required standardization before they could be applied to the mine site OM. Transformations to the parameter estimates were done by Seth Wenger, author and lead modeler for Isaak et al. (2017) (personal communication, February and March 2019). The mine site OM variables were transformed using a method employed by Gelman and Hill (2006). The results of these standardized values, along with the values in their original scales, are reported in **Appendix C**.

## 4.10 FISH ACCESS AND BARRIERS

For this model, only perennial streams were considered; SFA stream reaches labeled as intermittent or non-perennial were trimmed from the final set of streams. Further restrictions included maximum slope and minimum flow limitations. Any mine site OM reaches that had a slope greater than 15 percent or a flow less than 0.2 cfs were trimmed from the final stream network. The treatment of in-network barriers is addressed in a separate tech memo.

# 5.0 RESULTS

Section 5 details the results of the mine site OM. Results are summarized for four mine site stream segments in the study area (Stream Segment 1, Stream Segment 2, Stream Segment 3, and Stream Segment 5) for the existing condition. Stream Segment 4 was not within the model domain.

## 5.1 STREAM SEGMENT 5

Stream Segment 5 provides habitat for westslope cutthroat trout and bull trout. After accounting for maximum slope and minimum stream discharge criteria, Stream Segment 5 contained

41.7 kilometers of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout range from 55.7 to 70.1 percent; while those for bull trout range from 0.9 to 24.5 percent. A distance-weighted average method was used to represent the average occupancy probability for each stream segment. To produce the distance-weighted average, the occupancy probability of each mine site OM reach was multiplied by the proportion of that reach's stream length to the cumulative stream length of each stream segment. The distance-weighted average occupancy probability for westslope cutthroat trout is 63.8 percent, and 8.3 percent for bull trout for Stream Segment 5.

Occupancy probabilities are reported in quartiles (i.e., four classes of equal size)—the first quartile representing the reaches with the lowest 25 percent of occupancy probabilities; and the fourth quartile representing reaches with the highest 25 percent of occupancy probabilities. The values used to delineate the quartiles for each stream segment were calculated from all occupancy probabilities in Stream Segment 5. **Table 5** details the number of reaches, total length of reaches, percent of total Stream Segment 5, and distance-weighted average occupancy probabilities for each quartile in the species' respective range of occupancy probability values in Stream Segment 5. Quartiles are reclassified as low, medium-low, medium-high, and high. **Figures 4** and **5** display the occupancy probabilities for each mine site OM reach in the Stream Segment 5 for westslope cutthroat trout and bull trout, respectively.

**Table 5. Descriptive Statistics for Occupancy Probabilities for Stream Segment 5**

| | Number of Reaches | Length of Reaches (meters) | Percent of Stream Segment 5 | Distance-Weighted Average Occupancy Probability |
|---|---|---|---|---|
| **Westslope Cutthroat Trout** | | | | |
| Low | 17 | 12,184 | 29.22% | 58.24% |
| Medium-Low | 16 | 13,367 | 32.05% | 62.75% |
| Medium-High | 16 | 8,098 | 19.42% | 67.20% |
| High | 15 | 8,943 | 21.45% | 69.43% |
| Total | 63 | 41,700 | 100% | 63.79% |
| **Bull Trout** | | | | |
| Low | 16 | 11,327 | 27.16% | 2.37% |
| Medium-Low | 16 | 12,162 | 29.16% | 4.57% |
| Medium-High | 16 | 9,665 | 23.18% | 10.86% |
| High | 15 | 8,547 | 20.50% | 18.64% |
| Total | 63 | 41,700 | 100% | 8.31% |

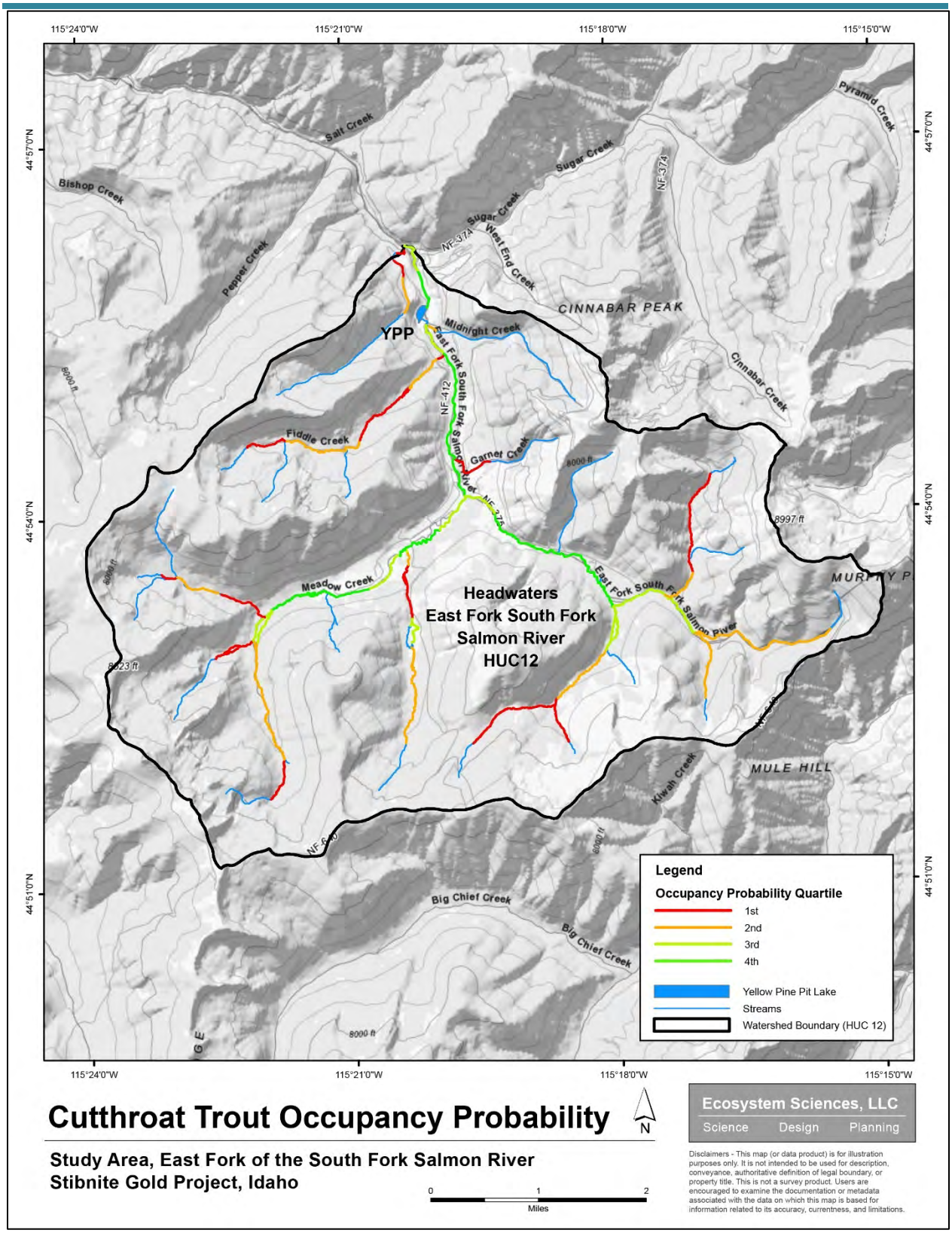



**Figure 4. Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 5**

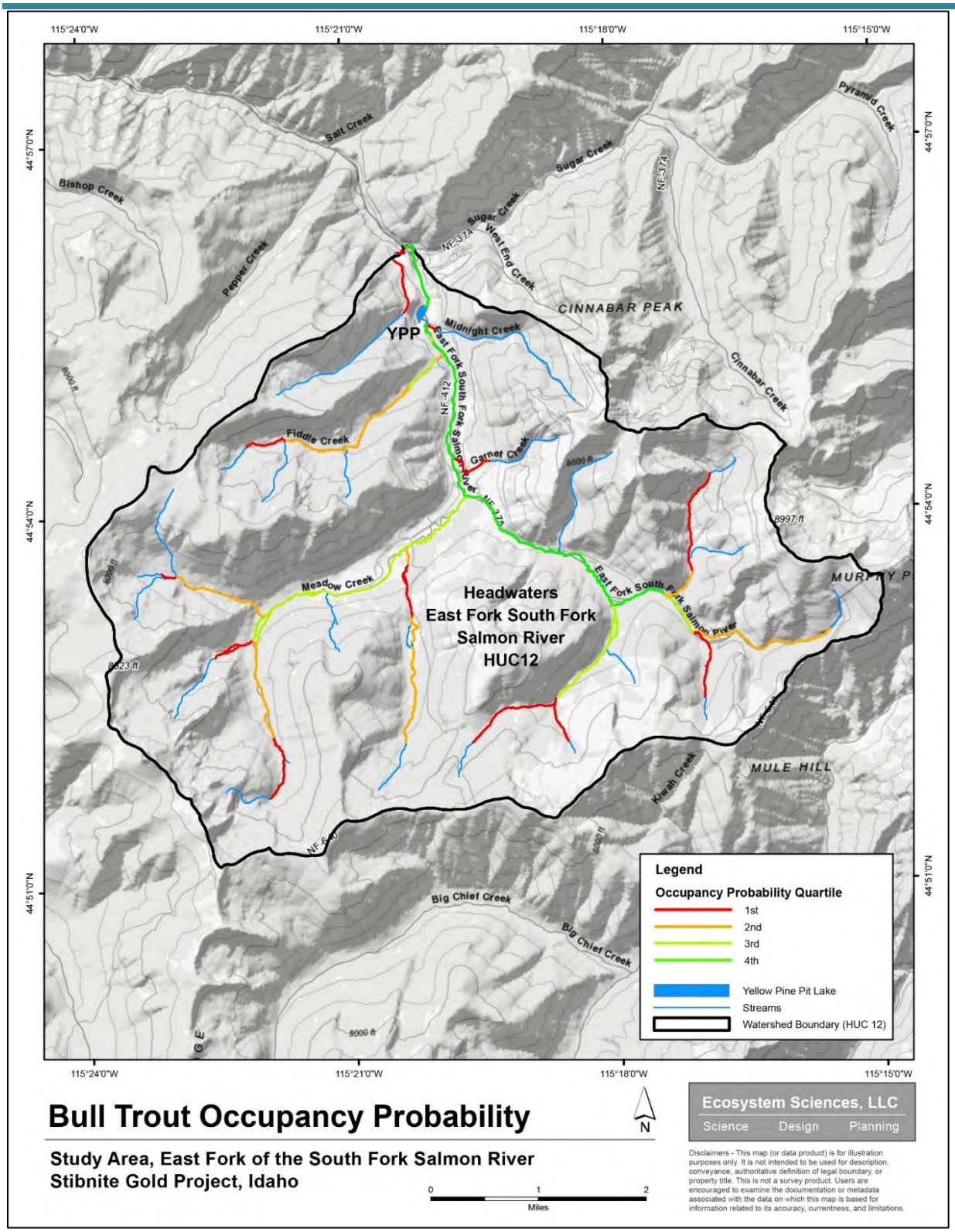



**Figure 5. Occupancy Probabilities for Bull Trout for Stream Segment 5**

### 5.1.1 Stream Segment 1

Stream Segment 1 contains 10.45 kilometers of potential habitat for westslope cutthroat trout and bull trout. The distance-weighted average occupancy probability for westslope cutthroat trout is 63.7 percent; and 9.7 percent for bull trout. **Table 6** details the number of reaches, total length of reaches, percent of Stream Segment 1, and distance-weighted average occupancy probabilities for each quartile within the species' respective range of occupancy probability values in Stream Segment 1. **Figure 6** and **Figure 7** display the occupancy probabilities for each mine site OM reach in Stream Segment 1 for westslope cutthroat trout and bull trout, respectively.

**Table 6. Descriptive Statistics for Occupancy Probabilities for Stream Segment 1**

| | Number of Reaches | Length of Reaches (meters) | Percent of Stream Segment 1 | Distance Weighted Average Occupancy Probability |
|---|---|---|---|---|
| **Westslope Cutthroat Trout** | | | | |
| Low | 7 | 3,358 | 32.15% | 58.18% |
| Medium-Low | 5 | 2,875 | 27.52% | 62.35% |
| Medium-High | 6 | 1,120 | 10.72% | 67.26% |
| High | 4 | 3,092 | 29.60% | 69.75% |
| Total | 22 | 10,445 | 100% | 63.73% |
| **Bull Trout** | | | | |
| Low | 6 | 2,616 | 25.04% | 2.02% |
| Medium-Low | 5 | 2,891 | 27.67% | 4.98% |
| Medium-High | 3 | 863 | 8.26% | 8.24% |
| High | 8 | 4,076 | 39.03% | 18.19% |
| Total | 22 | 10,445 | 100% | 9.66% |

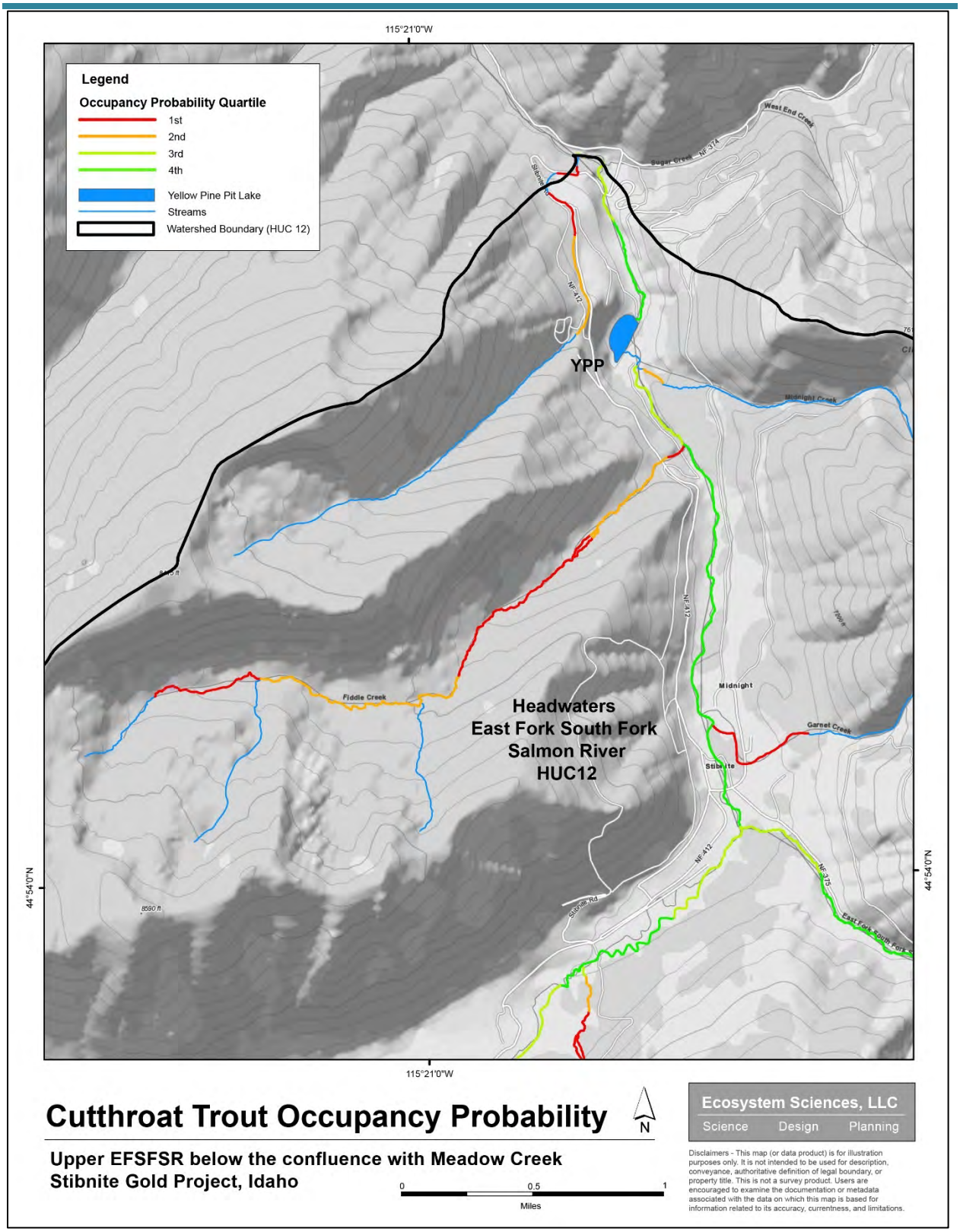



**Figure 6. Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 1**

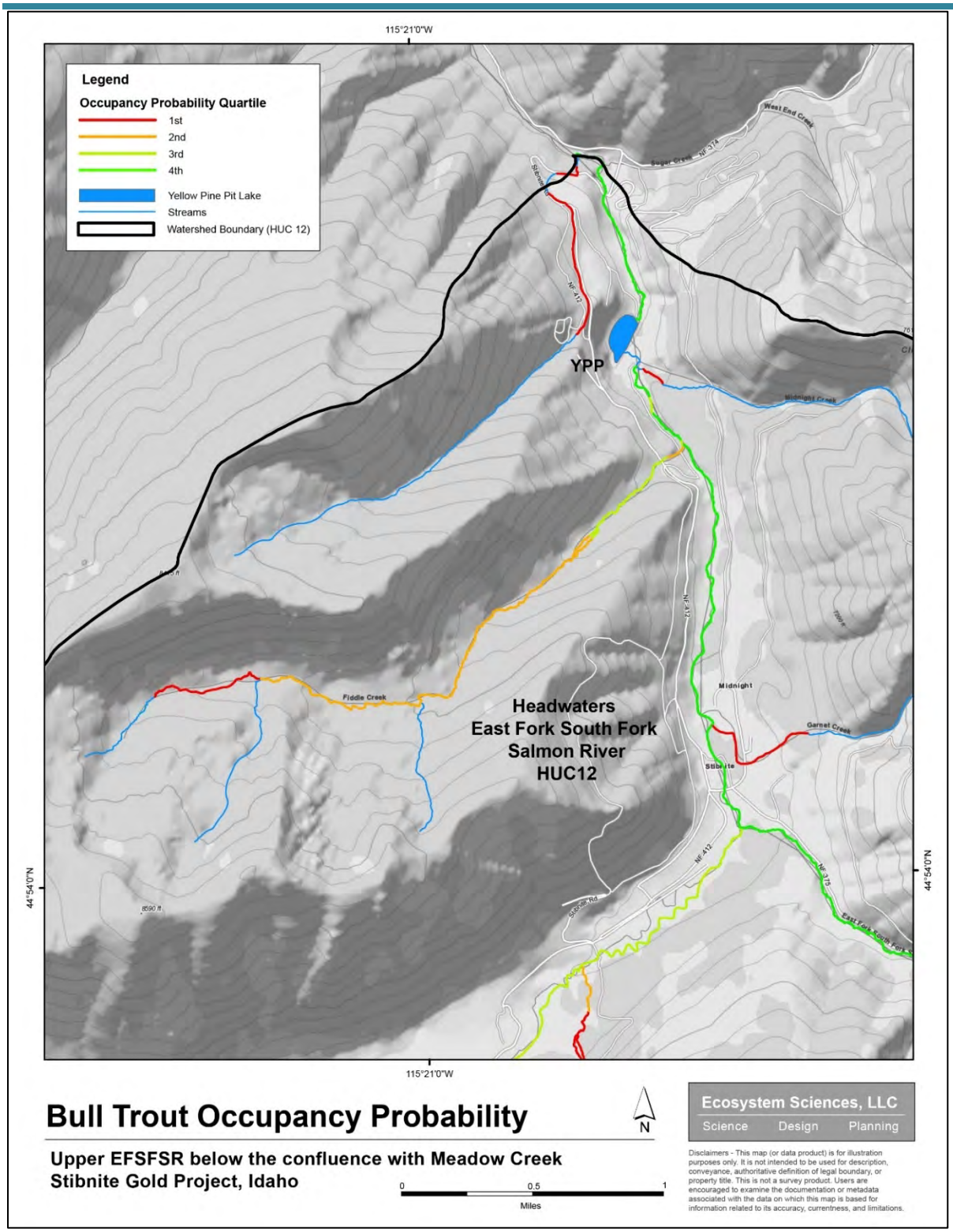



**Figure 7. Occupancy Probabilities for Bull Trout for Stream Segment 1**

### 5.1.2 Stream Segment 2

Stream Segment 2 contains 15.1 kilometers of potential habitat for westslope cutthroat trout and bull trout. The distance-weighted average occupancy probability for westslope cutthroat trout is 64.1 percent; for bull trout it is 6.3 percent. **Table 7** details the number of reaches, total length of reaches, percent of Stream Segment 2, and distance-weighted average occupancy probabilities for each quartile within the species' respective range of occupancy probability values in Stream Segment 2. **Figure 8** and **Figure 9** display the occupancy probabilities for each mine site OM reach in Stream Segment 2 for westslope cutthroat trout and bull trout, respectively.

**Table 7. Descriptive Statistics for Occupancy Probabilities for Stream Segment 2**

| | Number of Reaches | Length of Reaches (meters) | Percent of Stream Segment 2 | Distance Weighted Average Occupancy Probability |
|---|---|---|---|---|
| **Westslope Cutthroat Trout** | | | | |
| Low | 6 | 3,863 | 25.59% | 58.13% |
| Medium-Low | 6 | 5,009 | 33.18% | 63.51% |
| Medium-High | 6 | 3,287 | 21.78% | 67.44% |
| High | 6 | 2,937 | 19.46% | 69.00% |
| Total | 24 | 15,096 | 100% | 64.06% |
| **Bull Trout** | | | | |
| Low | 6 | 3,445 | 22.82% | 2.09% |
| Medium-Low | 8 | 6,130 | 40.61% | 4.39% |
| Medium-High | 10 | 5,521 | 36.58% | 11.01% |
| High | 0 | 0 | 0% | 0% |
| Total | 24 | 15,096 | 100% | 6.29% |

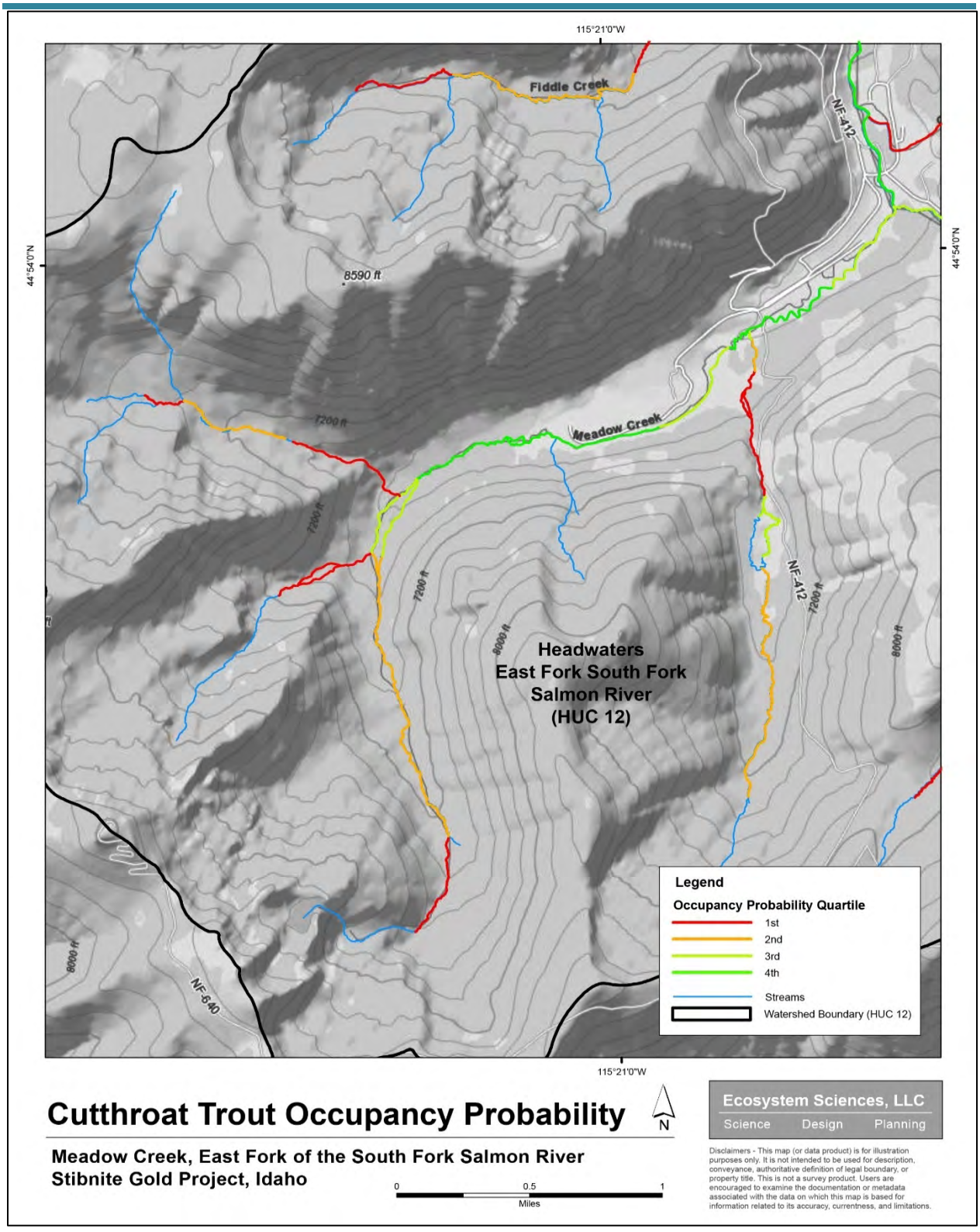



**Figure 8. Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 2**

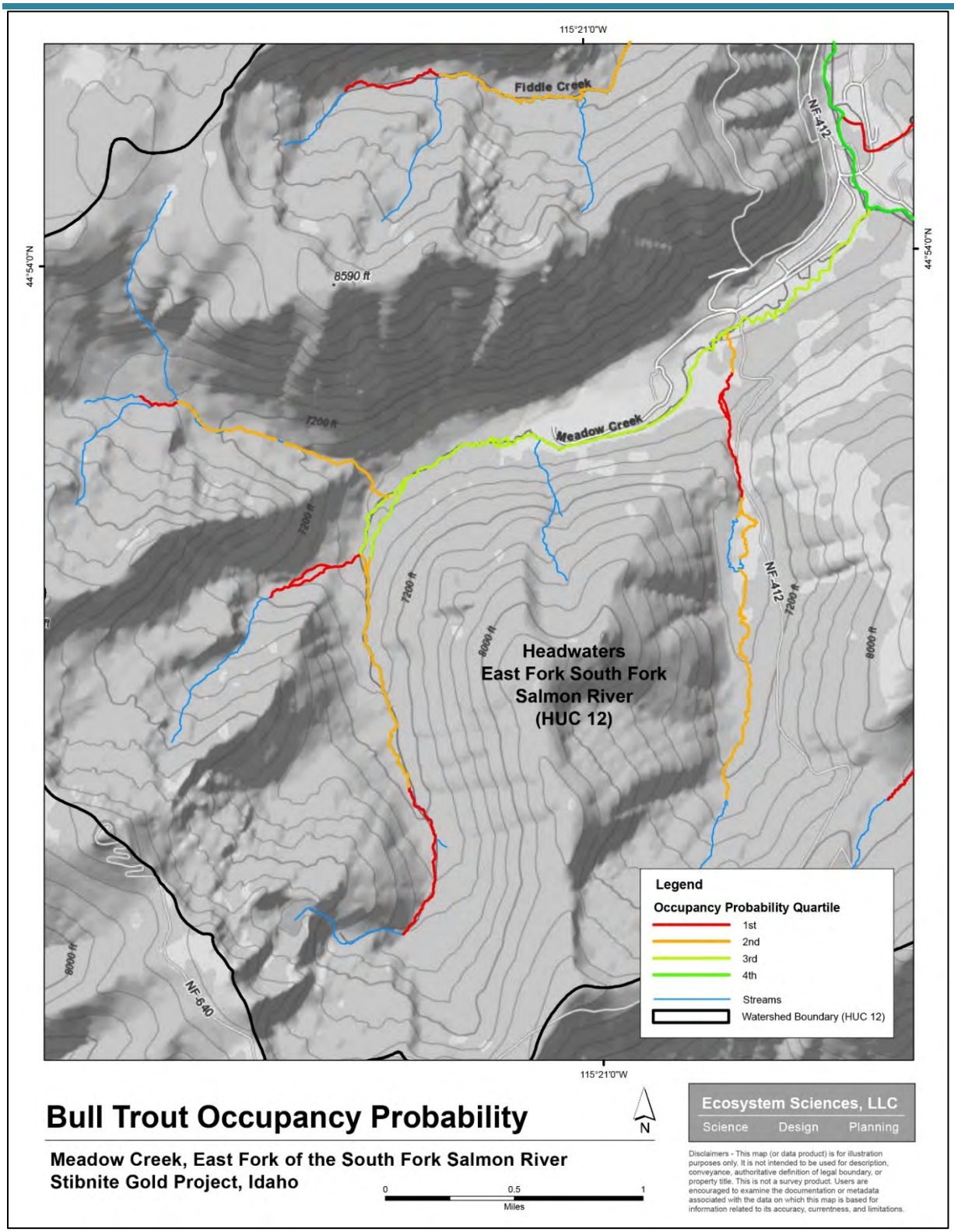



**Figure 9. Occupancy Probabilities for Bull Trout for Stream Segment 2**

### 5.1.3 Stream Segment 3

Stream Segment 3 contains 16.16 meters of potential habitat for westslope cutthroat trout and bull trout. The distance-weighted average occupancy probability for westslope cutthroat trout is 63.6 percent, and 9.3 percent for bull trout. **Table 8** details the number of reaches, total length of reaches, percent of Stream Segment 3, and distance-weighted average occupancy probabilities for each quartile within the species' respective range of occupancy probability values in Stream Segment 3. **Figures 10** and **11** display the occupancy probabilities for each mine site OM reach in Stream Segment 3 for westslope cutthroat trout and bull trout, respectively.

**Table 6. Descriptive Statistics for Occupancy Probabilities for Stream Segment 3**

| | Number of Reaches | Length of Reaches (meters) | Percent of Stream Segment 3 | Distance Weighted Average Occupancy Probability |
|---|---|---|---|---|
| **Westslope Cutthroat Trout** | | | | |
| Low | 3 | 4,071 | 25.19% | 58.07% |
| Medium-Low | 5 | 5,483 | 33.93% | 62.27% |
| Medium-High | 4 | 3,690 | 22.84% | 66.97% |
| High | 5 | 2,914 | 18.04% | 69.50% |
| Total | 17 | 16,159 | 100% | 63.59% |
| **Bull Trout** | | | | |
| Low | 4 | 5,267 | 32.60% | 2.72% |
| Medium-Low | 3 | 3,141 | 19.44% | 4.55% |
| Medium-High | 3 | 3,281 | 20.30% | 11.30% |
| High | 7 | 4,470 | 27.66% | 19.06% |
| Total | 17 | 16,159 | 100% | 9.34% |

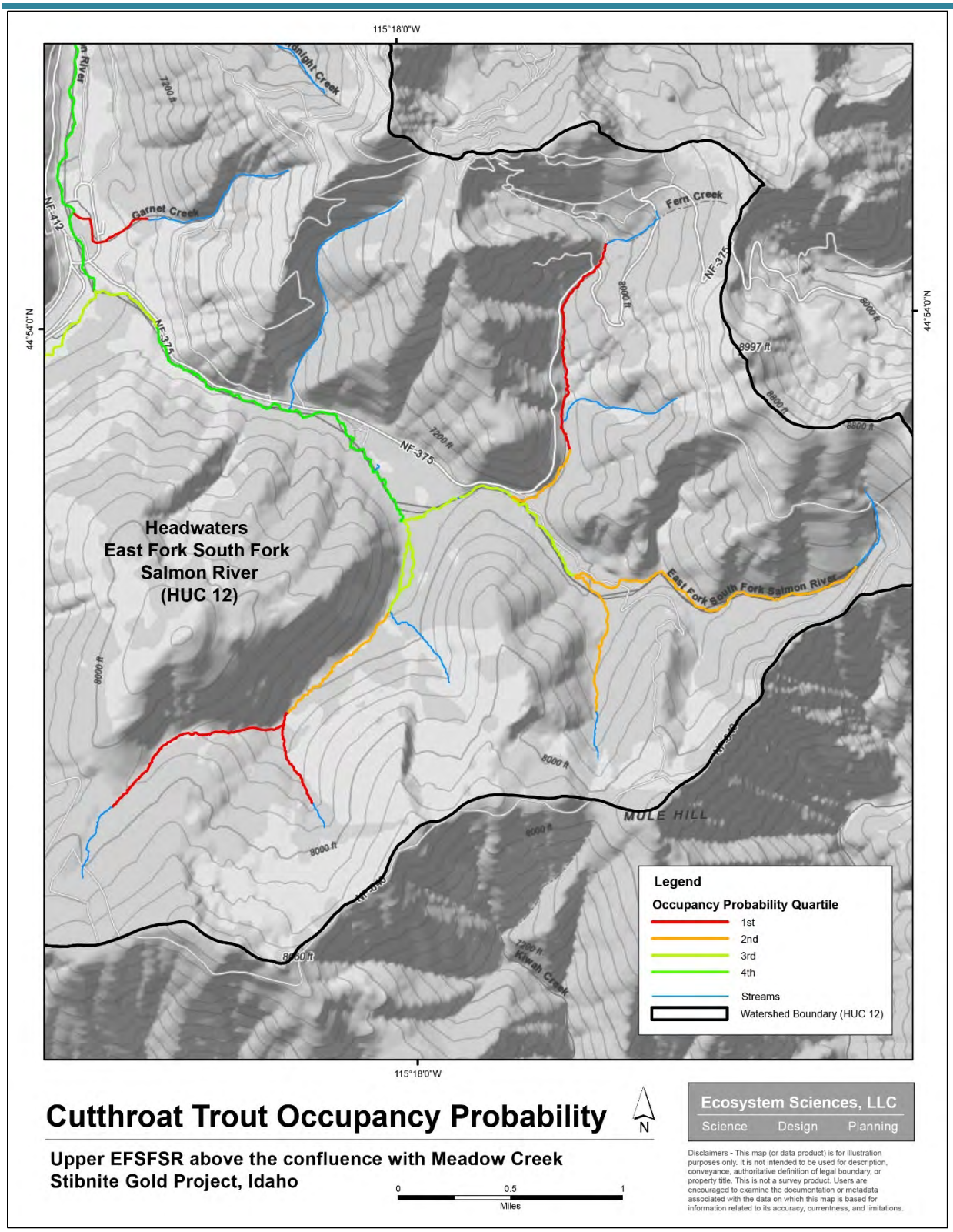



**Figure 6. Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 3**

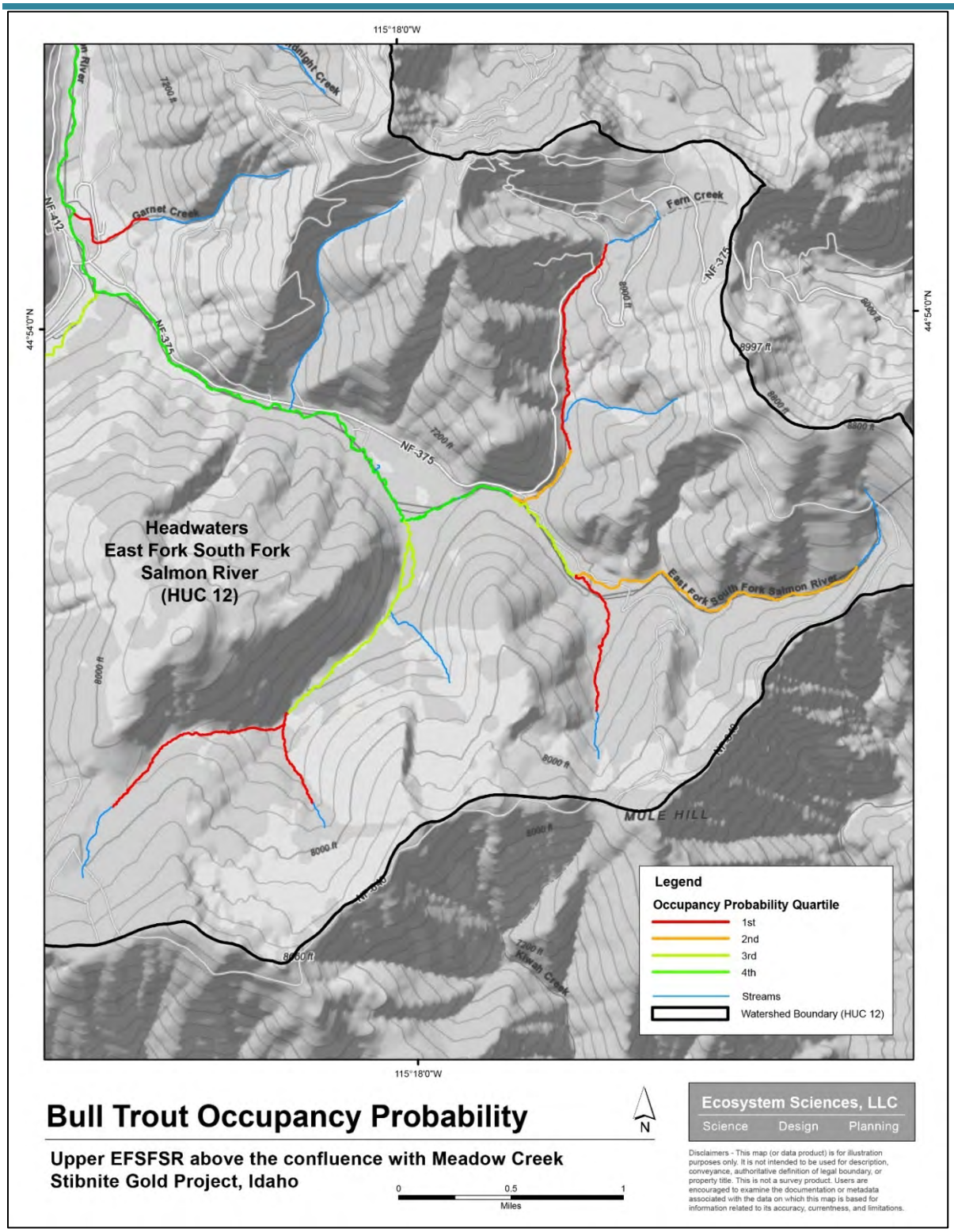



**Figure 7. Occupancy Probabilities for Bull Trout Stream Segment 3**

## 5.2 SENSITIVITY ANALYSES

The occupancy probabilities that resulted from the mine site OM are a function of three independent variables: stream temperature, stream discharge, and channel slope. This section describes the analyses that were performed to quantify the importance of each variable in producing the resulting occupancy probabilities.

Calculations were developed that link mine site OM probabilities for westslope cutthroat trout and bull trout under existing conditions to their respective independent variables. A simple 'one-at-a-time' sensitivity analysis was performed on the mine site OM probabilities and their associated model variables. This type of sensitivity analysis is performed by repeatedly varying one variable by a fixed increment, while holding all other independent variables to their sample means (Hamby 1994). Each variable was varied from its sample mean in both the positive and negative directions.

Sensitivity analysis runs were performed using two different scenarios: 1) means from all stream reaches in the study area (i.e., basecase, flow = 4.9 cfs, temperature = 9.71°C and slope = 7.3 percent); and 2) modeled values associated with the MC5 reach (flow = 7.91 cfs, temperature = 11.77°C, slope = 1 percent). The basecase analysis provides a theoretical understanding of how mine site OM probabilities change as each variable changes for the average mine site OM reach. The MC5 analysis describes the relationship between mine site OM probabilities and variables for a specific reach whose flow would be diverted under the project (MC5). Six graphical outputs from the sensitivity analyses (three for the base-case and three for the MC5 reach-case) for each species can be found in **Appendix D**. For each variable/species analyzed, one graph shows OM probabilities plotted against the variable of interest. The other two graphs show how increases and decreases in the variables affect mine site OM probabilities, and are in units of percent change (%Δ): for example, a 50 percent change in stream discharge results in a 20 percent change in mine site OM probability. Below, the sensitivity of mine site OM probabilities to each variable is discussed.

### 5.2.1 Stream Temperature

Stream temperature was varied by increments of 0.1°C for both westslope cutthroat trout and bull trout, ranging from 5°C to 20°C. **Table 9** shows the resulting change in occupancy probability from a 50 percent increase or decrease in stream temperature for both native trout species, and the two methods of analysis.

**Table 7. Changes in Occupancy Probability as a Result of Decreasing and Increasing Percent Change in Stream Temperature**

| Change in Stream Temperature | Change in Occupancy Probability | | | |
|---|---|---|---|---|
| | Bull Trout | | Cutthroat Trout | |
| | Basecase | MC5 | Basecase | MC5 |
| 50% Decrease | 342% Increase | 386% Increase | 13% Decrease | 2% Decrease |
| 50% Increase | 81% Decrease | 84% Decrease | 25% Decrease | 53% Decrease |

### 5.2.2 Stream Discharge

Stream discharge was varied by increments of 0.2 cfs for westslope cutthroat trout and 0.5 cfs for bull trout, ranging from 0 cfs to 30 cfs. **Table 10** shows the resulting change in occupancy

probability from a 50 percent increase or decrease in stream discharge for both native trout species, and the two methods of analysis.

**Table 8. Changes in Occupancy Probability as a Result of Decreasing and Increasing Percent Change in Stream Discharge**

| Change in Stream Discharge | Change in Occupancy Probability | | | |
|---|---|---|---|---|
| | Bull Trout | | Cutthroat Trout | |
| | Basecase | MC5 | Basecase | MC5 |
| 50% Decrease | 35% Decrease | 35% Decrease | 2% Decrease | 2% Decrease |
| 50% Increase | 27% Increase | 27% Increase | 1% Decrease | 1% Decrease |

### 5.2.3 Channel Slope

Channel slope was varied by increments of 0.5 percent for both westslope cutthroat trout and bull trout, ranging from 0 to 30 percent. **Table 11** shows the resulting change in occupancy probability from a 50 percent increase or decrease in channel slope for both native trout species, and the two methods of analysis.

**Table 9. Changes in Occupancy Probability Resulting from Decreasing and Increasing Percent Change in Channel Slope**

| Change in Channel Slope | Change in Occupancy Probability | | | |
|---|---|---|---|---|
| | Bull Trout | | Cutthroat Trout | |
| | Basecase | MC5 | Basecase | MC5 |
| 50% Decrease | 33% Increase | 4% Increase | 3% Increase | 0.4% Increase |
| 50% Increase | 25% Decrease | 4% Decrease | 3% Decrease | 0.4% Decrease |

## 5.3 STUDY AREA HABITAT AND OCCUPANCY

Overall, the mine site OM study area (Stream Segment 5) supports 41.70 kilometers of stream channel that is useable habitat for westslope cutthroat trout and bull trout. With just over 16.16 kilometers of stream channel, Stream Segment 3 contains the most available habitat for both species (**Figure 12**).

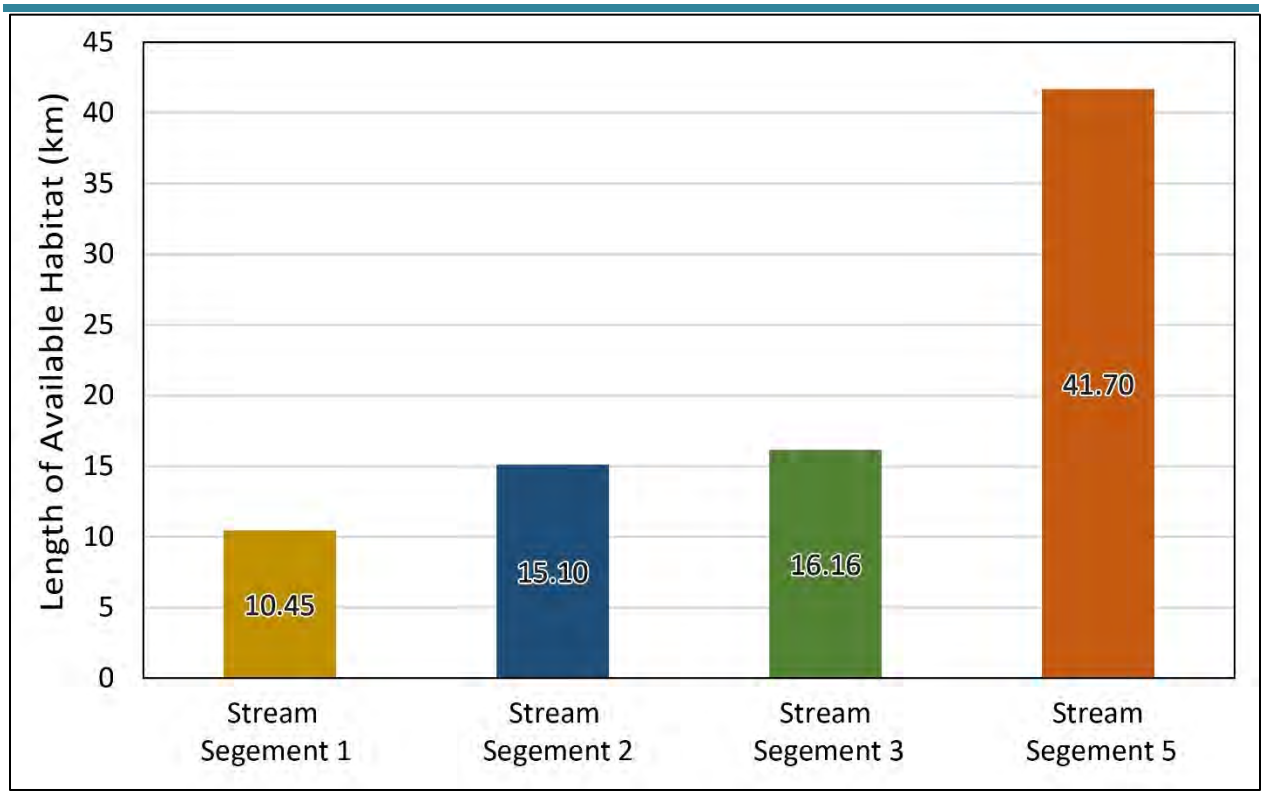



**Figure 8. Length of Available (kilometers) for each Stream Segment**

The occupancy probability distributions for each stream segment are displayed below (**Figure 13** and **Figure 14**). Of the three stream segments, Stream Segment 2 contains the highest distance-weighted average occupancy percentage (64.06 percent) for westslope cutthroat trout. There is little variability between the distributions of stream segments for westslope cutthroat trout. Westslope cutthroat trout have a greater tolerance for fluctuations in each of the OM model variables, and are more generalist in their occupancy of habitat in the mine site study area than bull trout. For bull trout, Stream Segment 1 contains the highest distance-weighted average occupancy percentage (9.66 percent) of the three nested stream segments. The weighted average occupancy percentage Stream Segment 2 is notably lower than Stream Segment 1 or 3. This is largely a function of stream temperature and stream discharge, because Stream Segment 2 has a higher average stream temperature (10.36°C) and a lower average stream discharge (2.96 cfs) than the average stream temperature and discharge of Stream Segment 5.

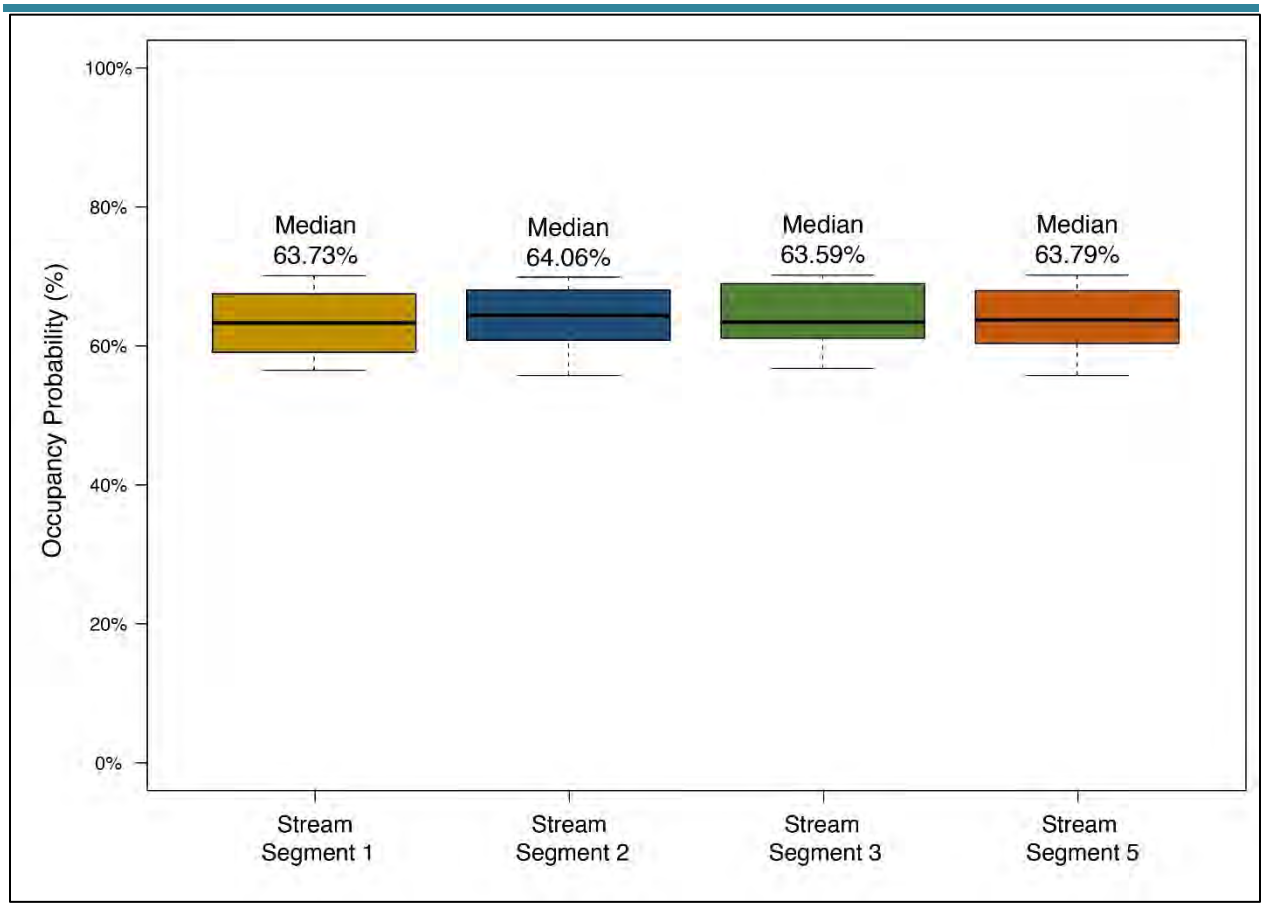



**Figure 9. Occupancy Probability Distributions for Westslope Cutthroat Trout for each Stream Segment**

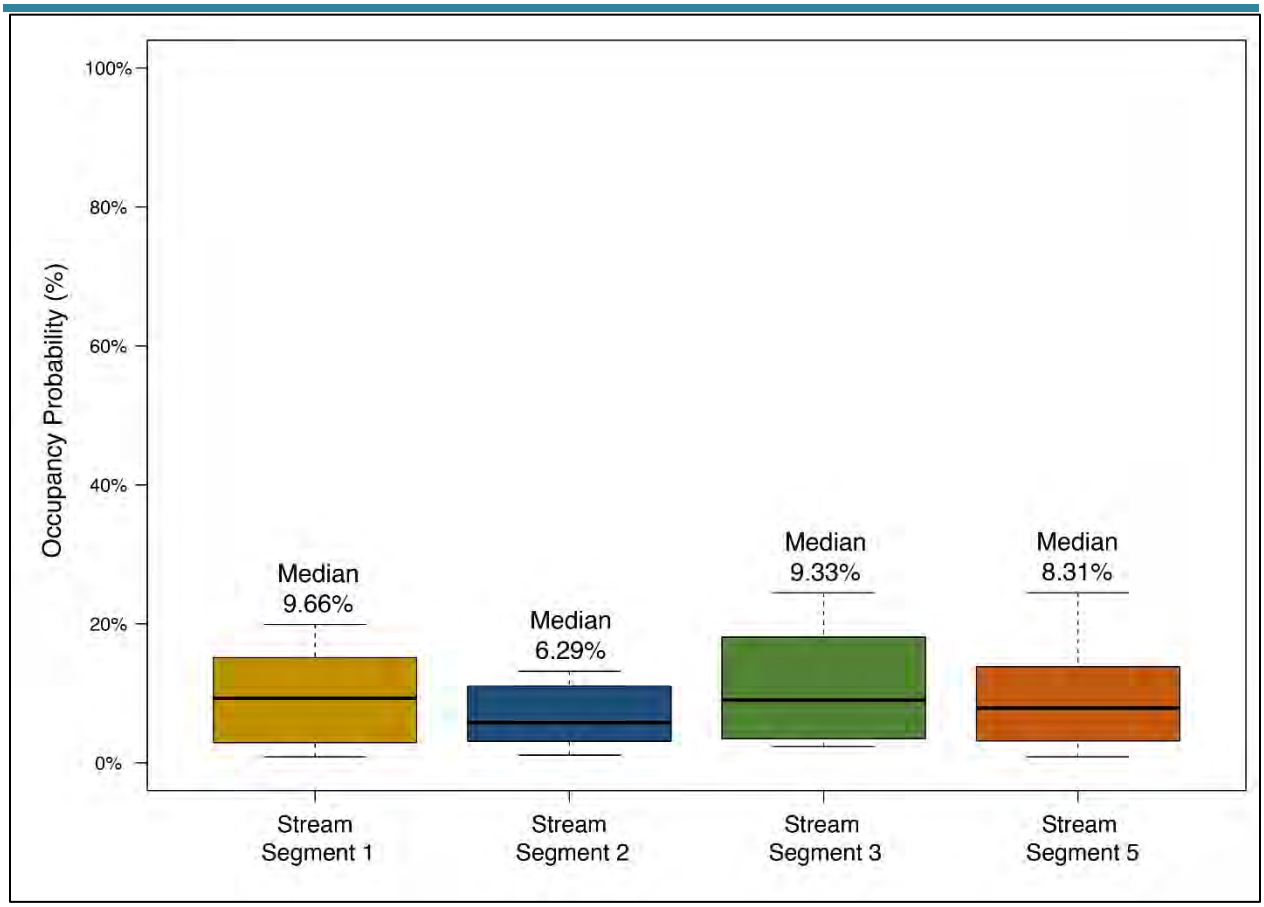



**Figure 10. Occupancy Probability Distributions for Bull Trout for each Stream Segment**

# 6.0 SUMMARY/DISCUSSION

This technical memorandum explains the methods and results of the mine site OM, which models the quantity and spatial distribution of westslope cutthroat trout and bull trout habitat for existing conditions in the mine site study area. This information supports the analysis of impacts on westslope cutthroat trout and bull trout from the Stibnite Gold Project or any action alternative, by providing the baseline against which changes can be compared.

The mine site OM estimates the probability of the two species' occurrence in the headwaters of the EFSFSR watershed upstream from the confluence of Sugar Creek. The methods used to determine the occupancy probability per stream reach follow the approaches that the existing regional OM employed for watersheds in the Rocky Mountains of Idaho and western Montana, in which the mine site study area is located. The mine site OM differs from the existing regional OM methodology by employing site-scale data attributed to stream reaches that are meaningful in terms of the mine site study area.

On average, westslope cutthroat trout are estimated to occupy 63.8 percent of all OM mine site reaches; while bull trout are estimated to occupy 8.3 percent of all OM mine site reaches. The mine site occupancy percentages in this technical memorandum provide a quantitative and spatial measure of the two native trout species' habitats in the mine site study area. There are different

ways to interpret the results. Rather than absolute percentages, an alternative interpretation uses appropriate prevalence-dependent cut-offs for each species. For example, bull trout would be expected to be present if the predicted probability is greater than 20 percent or 10 percent (rather than the intuitive 50 percent) (Wenger, Personal Communication, January 18, 2019). This way of reading the results would offer a practical rationale for the low-occupancy probability estimates for bull trout in the mine site study area, given that their occurrence has been documented.

**Recommendations/Limitations**

The results from the existing conditions OM could be compared with a comprehensive mine-site–specific presence/absence dataset to further place them in the context of actual westslope cutthroat and bull trout occupancy in the mine site study area. Both species are known to occur in the mine site study area, and their actual spatial distributions are a function of factors that were not used as independent variables in the OM model. For example, adfluvial bull trout populations, which have been observed residing in Yellow Pine Pit and migrating downstream of the lake and then moving upstream to spawning areas (Hogen 2002), are not well-represented by the reaches that were modeled in the mine site study area (less than 3 percent of the overall existing conditions OM stream length is below Yellow Pine Pit). Although the best available presence/absence dataset from Isaak et al. (2017) was used to condition the logistical regression equation in the mine site OM model, this dataset is not specific to just the mine site study area.

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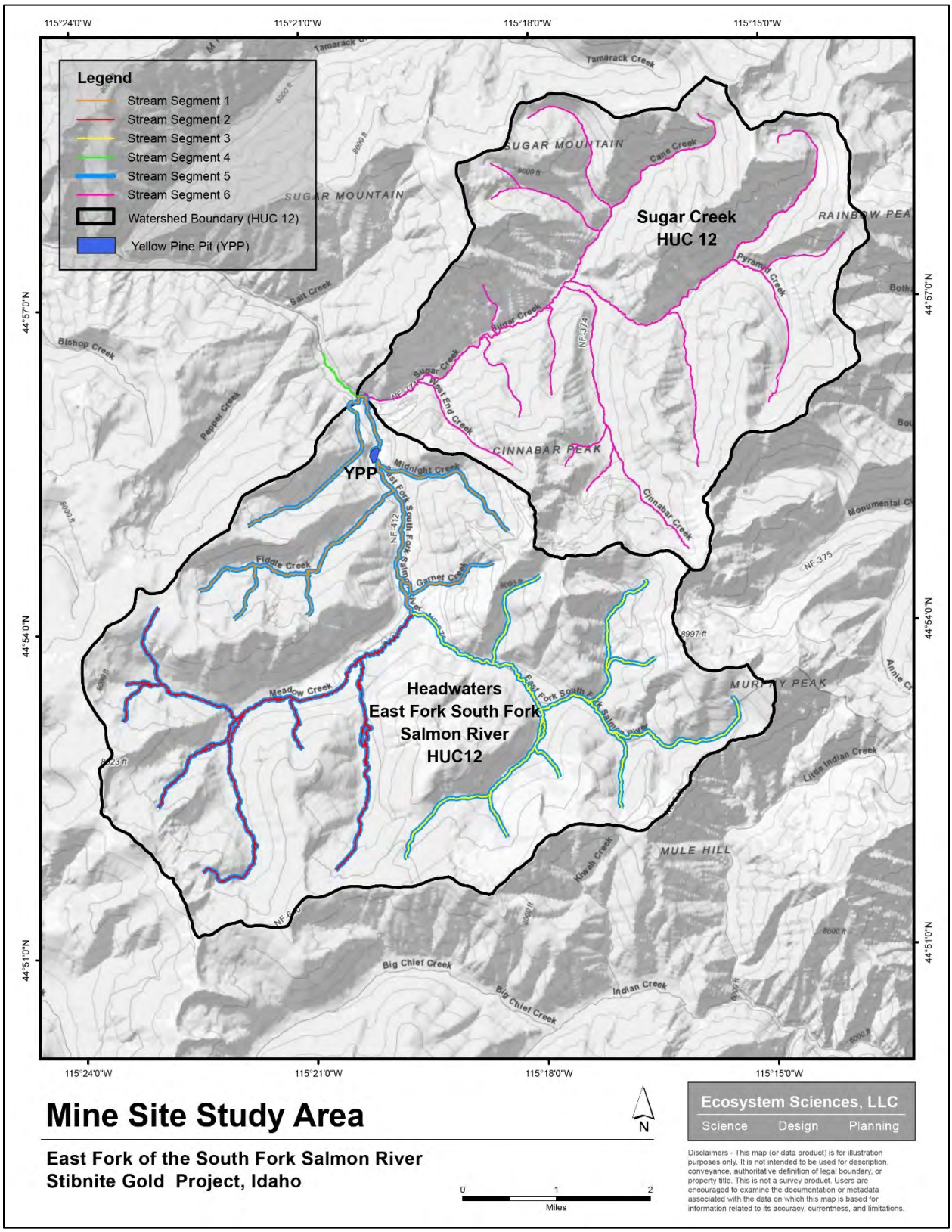
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# APPENDIX A: MINE SITE STREAM SEGMENTATION

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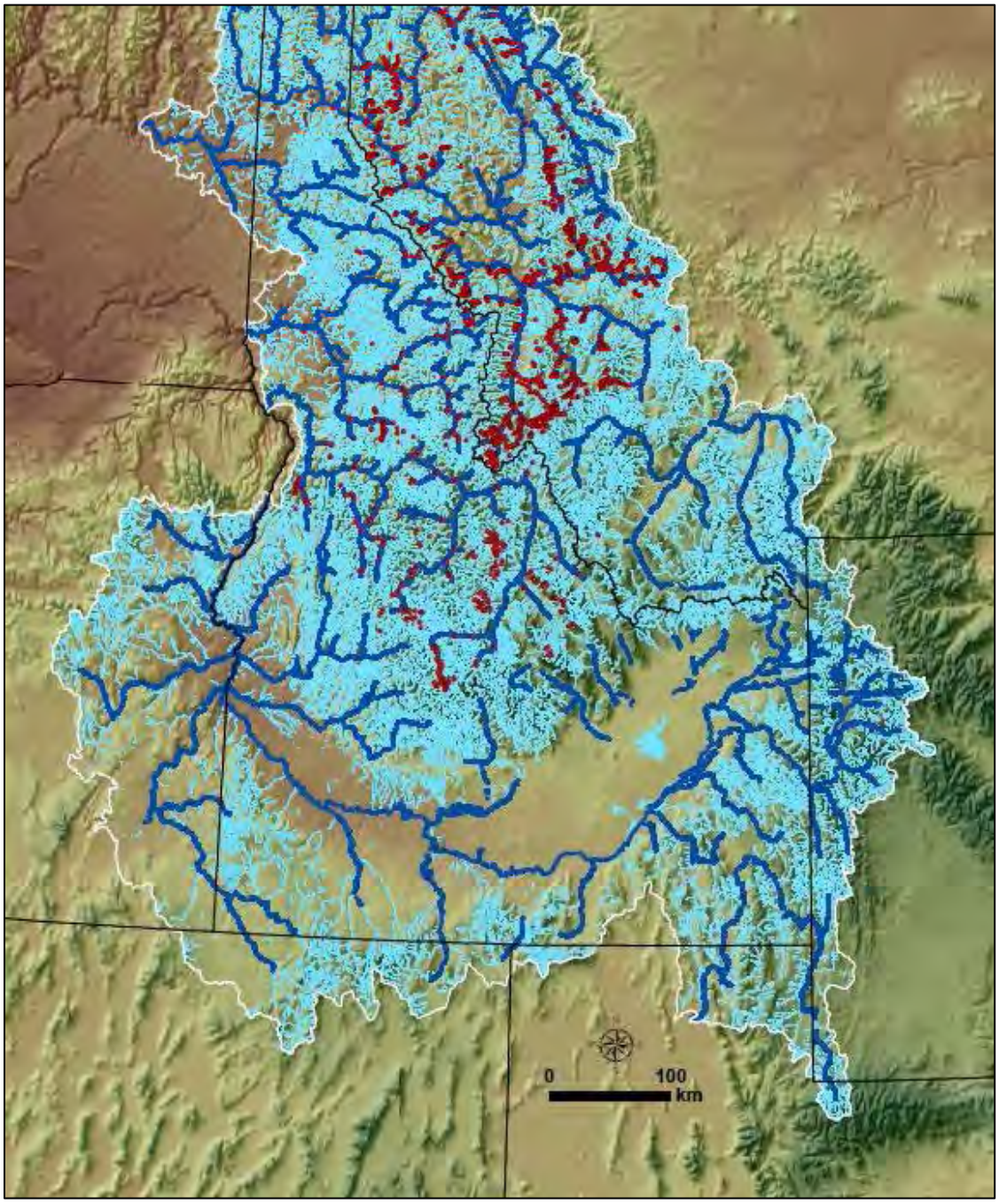
The mine site study area, as displayed below, has been delineated into six different stream segments as follows:

- **Stream Segment 1:** The Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream Segment 2:** The entirety of the Meadow Creek drainage area, including East Fork Meadow Creek.
- **Stream Segment 3:** The Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream Segment 4:** The modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream Segment 5:** The entirety of the HUC 12 "Headwaters East Fork South Fork Salmon River" (see figure below). Stream Segment 5 is the summation of Stream Segments 1, 2, and 3.
- **Stream Segment 6:** The Sugar Creek drainage area, or the HUC 12 "Sugar Creek" (see figure below).

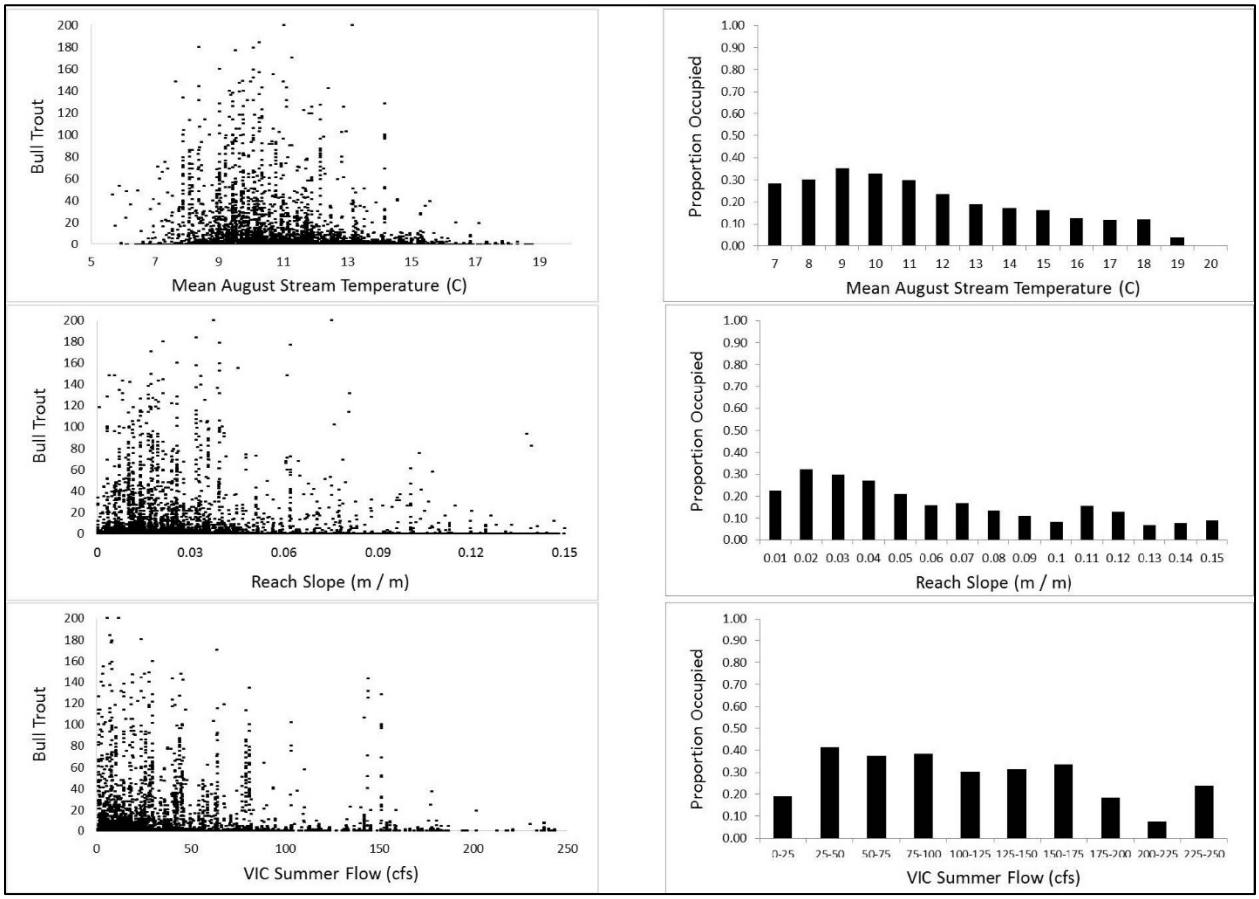

Legend
Stream Segment 1
Stream Segment 2
Stream Segment 3
Stream Segment 4
Stream Segment 5
Stream Segment 6
Watershed Boundary (HUC 12)
Yellow Pine Pit (YPP)
Sugar Creek HUC 12
Headwaters East Fork South Fork Salmon River HUC12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
MURRAY PEAK
MULE HILL
RAINBOW PEA
Tamarack Creek
Cane Creek
Pyramid Creek
Sugar Creek
West End Creek
Midnight Creek
Cinnabar Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Kinzel Creek
Little Indian Creek
Big Chief Creek
Indian Creek
Salt Creek
Bishop Creek
Peppel Creek
NF-374
NF-412
NF-375
115°24'0"W
115°21'0"W
115°18'0"W
115°15'0"W
44°57'0"N
44°54'0"N
44°51'0"N
Mine Site Study Area
East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
0
1
2
Miles
Ecosystem Sciences, LLC
Science Design Planning
Disclaimers - This map (or data product) is for illustration purposes only. It is not intended to be used for description, conveyance, authoritative definition of legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation or metadata associated with the data on which this map is based for information related to its accuracy, currentness, and limitations.

# APPENDIX B: MAPS AND SUMMARY STATISTICS FOR ISAAK ET AL. 2017 PRESENCE/ABSENCE DATASET

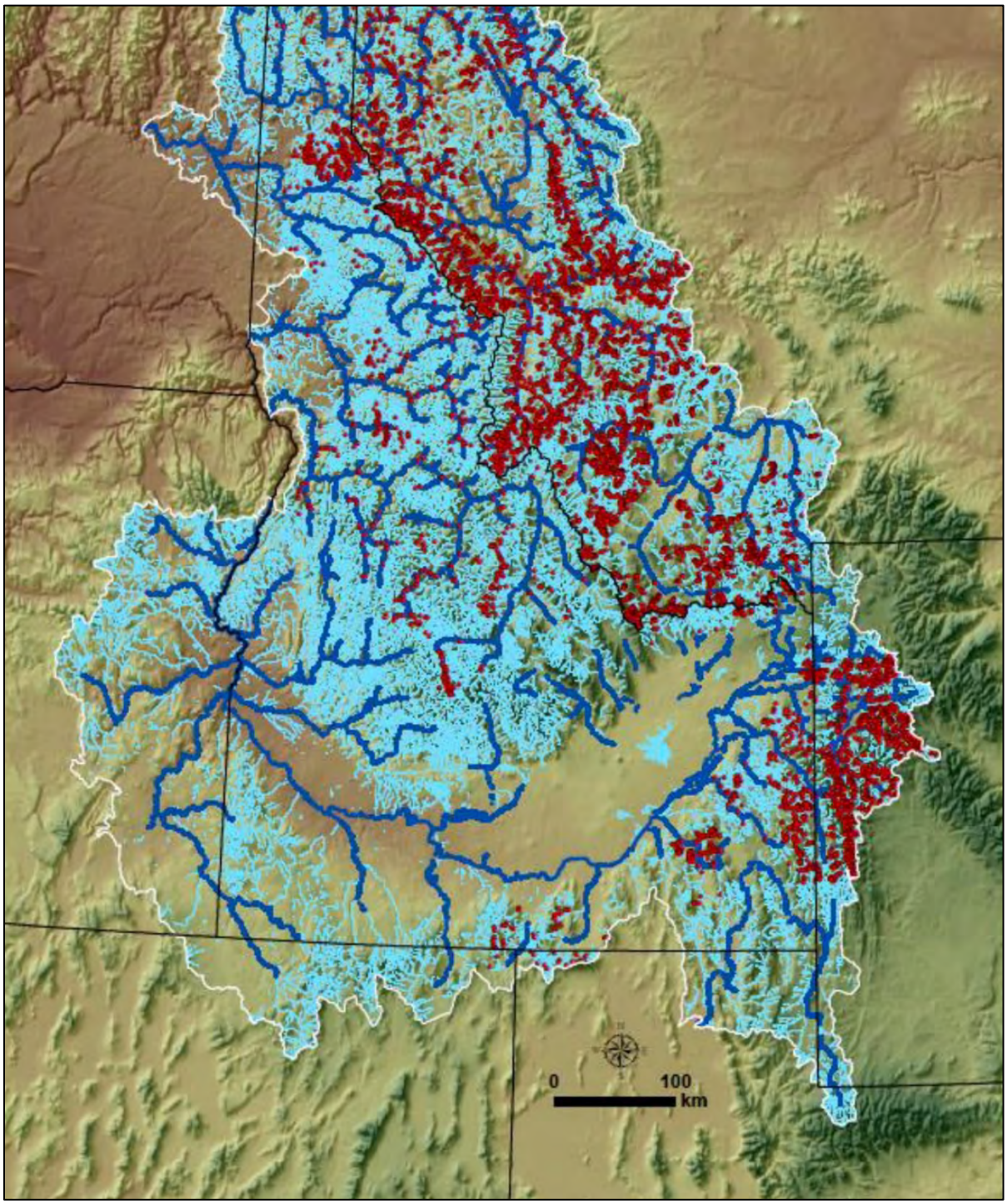
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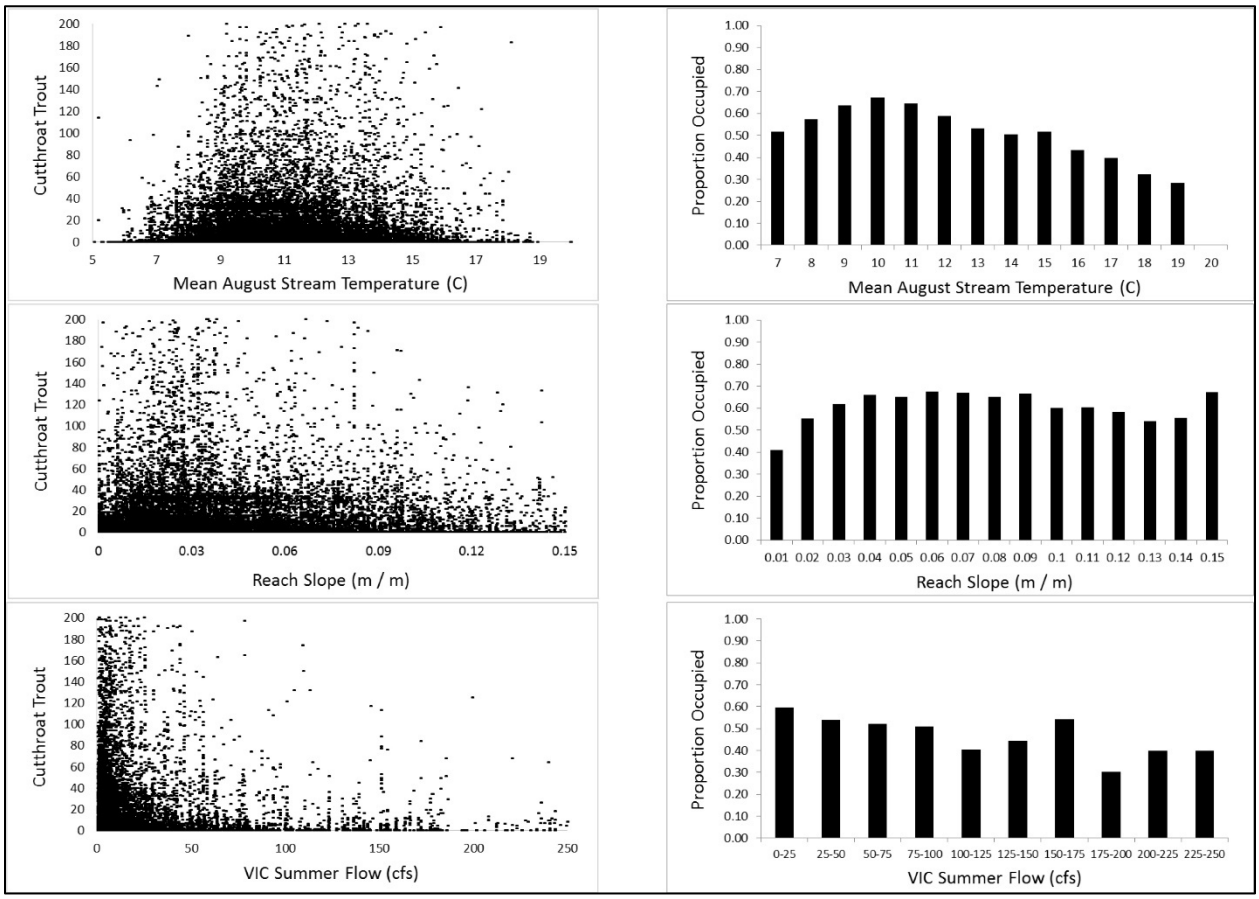

**Map of Bull Trout Occurrences from Isaak et al. 2017**




**Bull Trout Occurrences from Isaak et al. 2017 (2,809 Occurrences in 11,417 Surveys)**




**Map of Cutthroat Trout Occurrences from Isaak et al. 2017**




**Cutthroat Trout Occurrences from Isaak et al. 2017 (11,563 Occurrences in 19,692 Surveys**

# APPENDIX C: MINE SITE OM VARIABLES/OCCUPANCY PROBABILITIES (BACK-TRANSFORMED AND STANDARDIZED)

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**Back-transformed model variables.**

| Reach | Stream Temperature (°C) | Stream Temperature$^2$ | Stream Discharge (CFS) | Stream Discharge (LN) | Slope (%) |
|---|---|---|---|---|---|
| BC0.1 | 9.35 | 87.42 | 0.85 | -0.16 | 4.49% |
| BC1 | 10.80 | 116.64 | 1.58 | 0.46 | 1.56% |
| BC2 | 10.80 | 116.64 | 1.77 | 0.57 | 13.05% |
| BC3 | 10.80 | 116.64 | 1.84 | 0.61 | 5.16% |
| BC4 | 10.80 | 116.64 | 1.84 | 0.61 | 3.01% |
| EF0.01 | 7.91 | 62.51 | 0.32 | -1.13 | 7.23% |
| EF0.02 | 7.91 | 62.51 | 0.63 | -0.46 | 8.60% |
| EF0.03 | 7.91 | 62.51 | 1.06 | 0.06 | 5.05% |
| EF0.04 | 7.91 | 62.57 | 1.66 | 0.51 | 3.22% |
| EF0.05 | 7.91 | 62.51 | 0.72 | -0.33 | 10.79% |
| EF0.06 | 7.91 | 62.51 | 1.26 | 0.23 | 6.43% |
| EF0.07 | 7.91 | 62.51 | 2.51 | 0.92 | 5.05% |
| EF0.08 | 8.10 | 65.61 | 0.65 | -0.44 | 13.59% |
| EF0.09 | 8.10 | 65.61 | 0.34 | -1.09 | 11.40% |
| EF0.10 | 8.10 | 65.61 | 1.27 | 0.24 | 5.97% |
| EF0.11 | 8.10 | 65.61 | 1.70 | 0.53 | 2.19% |
| EF0.12 | 8.52 | 72.65 | 5.78 | 1.75 | 2.08% |
| EF0.14 | 9.06 | 82.08 | 6.17 | 1.82 | 3.45% |
| EF0.15 | 9.06 | 82.08 | 6.31 | 1.84 | 3.63% |
| EF0.17 | 9.24 | 85.38 | 6.89 | 1.93 | 4.47% |
| EF0.18 | 9.24 | 85.38 | 7.44 | 2.01 | 3.50% |
| EF1 | 9.24 | 85.38 | 7.55 | 2.02 | 6.44% |
| EF2.1 | 10.77 | 115.99 | 16.06 | 2.78 | 3.05% |
| EF2.2 | 10.96 | 120.12 | 16.57 | 2.81 | 2.71% |
| EF2.3 | 10.90 | 118.81 | 17.62 | 2.87 | 8.46% |
| EF2.4 | 10.91 | 118.92 | 17.64 | 2.87 | 6.03% |
| EF2.5 | 10.94 | 119.68 | 17.66 | 2.87 | 8.21% |
| EF3.1 | 10.94 | 119.68 | 17.66 | 2.87 | 6.64% |
| EF3.2 | 10.94 | 119.68 | 18.02 | 2.89 | 16.61% |
| EF3.3 | 11.72 | 137.36 | 18.12 | 2.90 | 1.96% |
| EF4.1 | 11.72 | 137.36 | 18.47 | 2.92 | 2.59% |
| EF4.2 | 11.72 | 137.36 | 18.81 | 2.93 | 4.23% |
| EF4.3 | 11.72 | 137.36 | 18.87 | 2.94 | 4.62% |

| Reach | Stream Temperature (°C) | Stream Temperature$^2$ | Stream Discharge (CFS) | Stream Discharge (LN) | Slope (%) |
|---|---|---|---|---|---|
| FC0 | 8.57 | 73.44 | 1.08 | 0.08 | 11.42% |
| FC0.1 | 7.96 | 63.36 | 0.34 | -1.07 | 9.68% |
| FC0.2 | 7.96 | 63.36 | 0.69 | -0.37 | 6.22% |
| FC0.3 | 8.19 | 67.08 | 1.01 | 0.01 | 9.86% |
| FC1 | 8.57 | 73.44 | 1.25 | 0.22 | 12.91% |
| FC2 | 8.57 | 73.44 | 1.50 | 0.41 | 7.38% |
| FC3 | 8.57 | 73.44 | 1.60 | 0.47 | 13.84% |
| GC0 | 10.80 | 116.64 | 0.31 | -1.18 | 10.40% |
| GC1 | 10.80 | 116.64 | 0.37 | -1.00 | 9.61% |
| HC1.2 | 9.81 | 96.24 | 0.61 | -0.49 | 7.08% |
| HC1.3 | 10.00 | 99.97 | 0.70 | -0.35 | 12.13% |
| HC1.4 | 10.09 | 101.81 | 0.74 | -0.30 | 30.09% |
| HL1 | 11.39 | 129.73 | 5.37 | 1.68 | 0.58% |
| HL2 | 11.77 | 138.53 | 7.42 | 2.00 | 0.54% |
| MC0.01 | 10.22 | 104.45 | 0.46 | -0.77 | 12.97% |
| MC0.02 | 10.22 | 104.45 | 0.85 | -0.16 | 6.33% |
| MC0.04 | 8.37 | 70.06 | 0.41 | -0.89 | 8.52% |
| MC0.06 | 8.37 | 70.06 | 1.02 | 0.02 | 9.00% |
| MC0.1 | 10.22 | 104.45 | 1.03 | 0.03 | 4.56% |
| MC0.7 | 9.27 | 85.93 | 0.49 | -0.71 | 14.71% |
| MC0.8 | 8.81 | 77.62 | 1.21 | 0.19 | 16.61% |
| MC1.1 | 10.72 | 114.92 | 1.50 | 0.40 | 6.85% |
| MC1.2 | 9.88 | 97.61 | 0.69 | -0.37 | 10.18% |
| MC1.31 | 8.92 | 79.57 | 1.36 | 0.31 | 14.68% |
| MC1.4 | 10.46 | 109.37 | 3.03 | 1.11 | 2.65% |
| MC1.5 | 10.22 | 104.45 | 4.44 | 1.49 | 1.99% |
| MC2 | 10.71 | 114.70 | 4.94 | 1.60 | 0.60% |
| MC3 | 10.71 | 114.70 | 5.22 | 1.65 | 0.45% |
| MC4.1 | 11.39 | 129.73 | 5.35 | 1.68 | 1.96% |
| MC4.2 | 11.39 | 129.73 | 5.40 | 1.69 | 1.57% |
| MC5 | 11.77 | 138.53 | 7.91 | 2.07 | 0.95% |
| MC6 | 11.57 | 133.78 | 8.10 | 2.09 | 1.84% |
| MN1 | 9.98 | 99.60 | 0.64 | -0.44 | 8.68% |
| MN2 | 9.98 | 99.60 | 0.66 | -0.42 | 33.14% |

**Standardized Model Variables**

| Reach | Stream Temperature (°C) | Stream Temperature$^2$ | Stream Discharge (LN) | Slope (%) |
|---|---|---|---|---|
| BC0.1 | 0.0597 | 0.0036 | 0.3441 | -0.1780 |
| BC1 | -0.6808 | 0.4635 | -0.9389 | 2.0415 |
| BC2 | -0.3470 | 0.1204 | -0.6481 | 0.9037 |
| BC3 | -0.4819 | 0.2322 | -0.7512 | 1.5487 |
| BC4 | -0.6808 | 0.4635 | -0.5311 | 0.7344 |
| EF0.01 | -0.1437 | 0.0206 | -0.3533 | 0.1880 |
| EF0.02 | -0.1437 | 0.0206 | -0.3525 | -0.1181 |
| EF0.03 | -0.1437 | 0.0206 | -0.3991 | -0.3245 |
| EF0.04 | -0.4642 | 0.2155 | -0.5857 | 0.0928 |
| EF0.05 | -0.7832 | 0.6135 | -0.8778 | 0.4826 |
| EF0.06 | -0.1437 | 0.0206 | -0.3562 | 0.6015 |
| EF0.07 | -0.1437 | 0.0206 | -0.3639 | 1.3114 |
| EF0.08 | -0.7405 | 0.5483 | -0.6685 | 1.3892 |
| EF0.09 | -0.7832 | 0.6135 | -0.2590 | 0.1718 |
| EF0.10 | -0.7832 | 0.6135 | -0.4668 | 0.3685 |
| EF0.11 | -0.7832 | 0.6135 | -0.6351 | 0.9904 |
| EF0.12 | -0.5283 | 0.2791 | 0.0195 | -0.0298 |
| EF0.14 | -0.4885 | 0.2386 | 0.0737 | 0.3710 |
| EF0.15 | -0.1503 | 0.0226 | 0.3019 | -0.1123 |
| EF0.17 | -0.1127 | 0.0127 | 0.3305 | 0.6222 |
| EF0.18 | -0.1204 | 0.0145 | 0.3303 | 0.3115 |
| EF1 | -0.1127 | 0.0127 | 0.3306 | 0.3988 |
| EF2.1 | -0.6808 | 0.4635 | -0.8070 | 0.6666 |
| EF2.2 | -0.0133 | 0.0002 | -0.0304 | -0.2676 |
| EF2.3 | -0.5592 | 0.3127 | -0.4576 | 1.4719 |
| EF2.4 | -0.2193 | 0.0481 | -0.2022 | -0.1691 |
| EF2.5 | -0.1636 | 0.0268 | -0.0545 | -0.4616 |
| EF3.1 | -0.2719 | 0.0739 | -0.0866 | -0.2629 |
| EF3.2 | -0.1636 | 0.0268 | -0.0377 | -0.4823 |
| EF3.3 | -0.3249 | 0.1056 | -0.8749 | 2.4096 |
| EF4.1 | -0.3249 | 0.1056 | -0.7783 | 1.6298 |
| EF4.2 | -0.3249 | 0.1056 | -0.7337 | 2.2829 |
| EF4.3 | -0.3249 | 0.1056 | -0.6817 | 1.6533 |
| FC0 | -0.4885 | 0.2386 | 0.0462 | 0.0892 |

| Reach | Stream Temperature (°C) | Stream Temperature$^2$ | Stream Discharge (LN) | Slope (%) |
|---|---|---|---|---|
| FC0.1 | -0.7825 | 0.6123 | -0.3838 | -0.0884 |
| FC0.2 | -0.7832 | 0.6135 | -0.5181 | 0.1717 |
| FC0.3 | -0.7405 | 0.5483 | -0.4645 | 0.3028 |
| FC1 | -0.4885 | 0.2386 | 0.0694 | -0.0489 |
| FC2 | -0.5283 | 0.2791 | -0.9262 | 2.9118 |
| FC3 | -0.7405 | 0.5483 | -0.9687 | 1.9218 |
| GC0 | -0.1614 | 0.0260 | -0.4146 | 0.4294 |
| GC1 | -0.2719 | 0.0739 | -0.5273 | 0.0620 |
| HC1.2 | 0.0597 | 0.0036 | 0.3507 | 0.1105 |
| HC1.3 | -0.3625 | 0.1314 | -0.7166 | 2.7658 |
| HC1.4 | -0.3625 | 0.1314 | -0.7154 | 2.0832 |
| HL1 | -0.0133 | 0.0002 | -0.0272 | -0.3237 |
| HL2 | -0.3249 | 0.1056 | -0.6708 | 0.6900 |
| MC0.01 | -0.3006 | 0.0904 | -0.6261 | 3.7388 |
| MC0.02 | -0.3208 | 0.1029 | -0.6436 | 1.1814 |
| MC0.04 | -0.7405 | 0.5483 | -0.3758 | -0.2355 |
| MC0.06 | -0.6469 | 0.4185 | -0.0070 | -0.2500 |
| MC0.7 | -0.1127 | 0.0127 | 0.3366 | 1.8195 |
| MC0.8 | -0.5283 | 0.2791 | -0.7984 | 2.0357 |
| MC1.1 | -0.4819 | 0.2322 | -0.9075 | 2.1565 |
| MC1.2 | -0.7205 | 0.5192 | -0.5333 | 0.8574 |
| MC1.4 | 0.0707 | 0.0050 | 0.0687 | -0.4703 |
| MC1.5 | -0.3625 | 0.1314 | -0.7141 | 1.8103 |
| MC2 | -0.2719 | 0.0739 | -0.5843 | 0.3549 |
| MC3 | -0.2719 | 0.0739 | -0.7687 | 1.3011 |
| MC4.1 | 0.0257 | 0.0007 | 0.0953 | -0.2856 |
| MC4.2 | 0.0707 | 0.0050 | 0.0880 | -0.4120 |
| MC5 | -0.3249 | 0.1056 | -0.6639 | 4.1739 |
| MC6 | -0.3249 | 0.1056 | -0.6919 | 1.7443 |
| MN1 | -0.6366 | 0.4053 | -0.4690 | 1.2918 |
| MN2 | -0.4598 | 0.2114 | -0.8274 | 2.8376 |

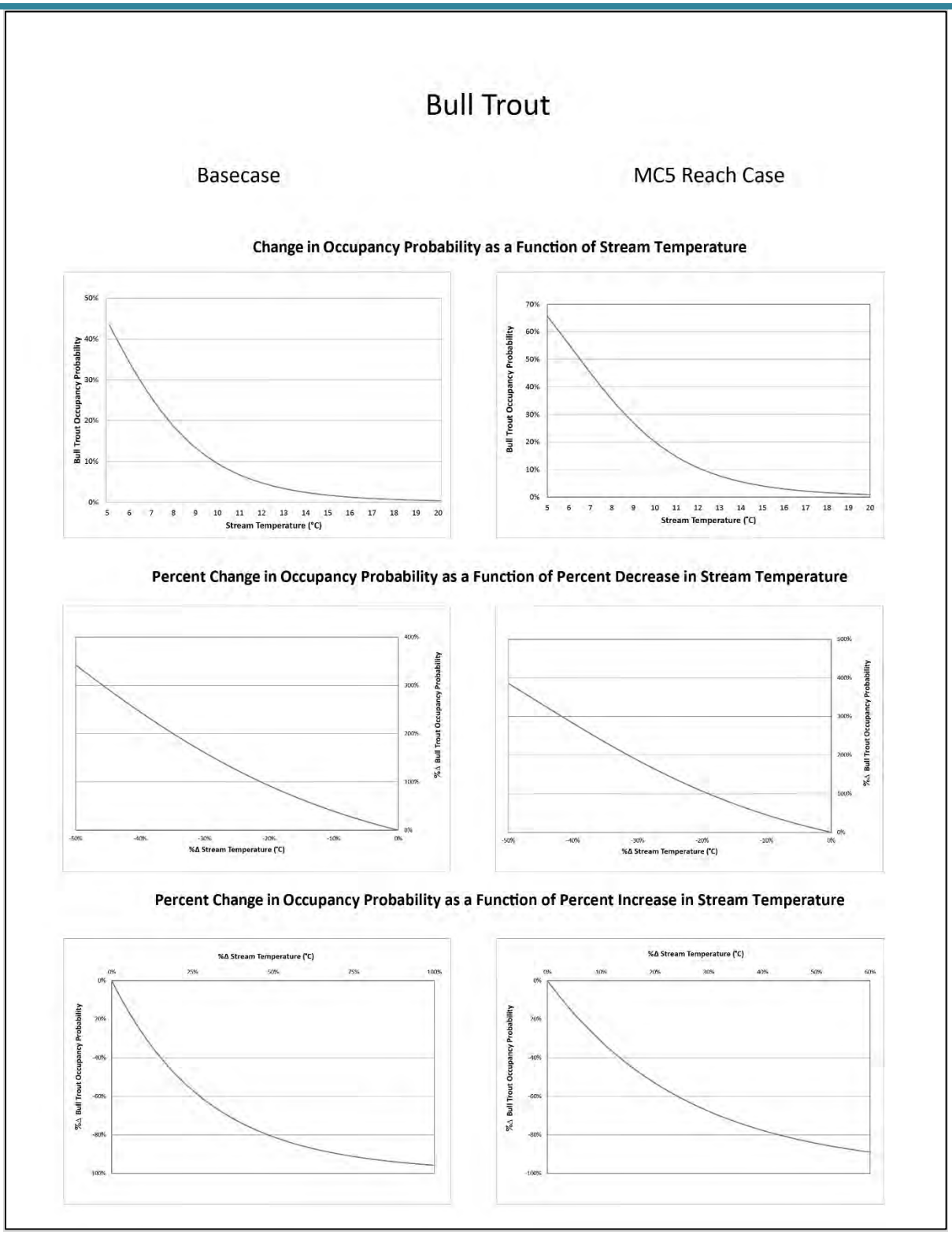
**Occupancy Probabilities and Length for all Stream Reaches within Mine Site OM Model Study Area**

| Reach | Westslope Cutthroat Trout | Bull Trout | Length (m) |
|---|---|---|---|
| BC0.1 | 64.8% | 4.9% | 1782.8 |
| BC1 | 66.6% | 5.6% | 641.4 |
| BC2 | 58.1% | 2.2% | 1060.5 |
| BC3 | 64.3% | 4.5% | 219.9 |
| BC4 | 65.9% | 5.4% | 61.5 |
| EF0.01 | 60.7% | 2.5% | 1196.4 |
| EF0.02 | 61.0% | 3.5% | 2057.3 |
| EF0.03 | 64.8% | 6.6% | 424.2 |
| EF0.04 | 67.0% | 10.2% | 864.3 |
| EF0.05 | 59.6% | 3.1% | 1730.1 |
| EF0.06 | 64.1% | 6.6% | 659.4 |
| EF0.07 | 65.9% | 15.2% | 971.5 |
| EF0.08 | 56.7% | 2.9% | 760.1 |
| EF0.09 | 57.1% | 2.3% | 1580.6 |
| EF0.10 | 64.1% | 8.8% | 1146.2 |
| EF0.11 | 67.4% | 14.3% | 1270.0 |
| EF0.12 | 70.1% | 24.5% | 1054.1 |
| EF0.14 | 69.4% | 19.5% | 210.0 |
| EF0.15 | 69.3% | 19.4% | 288.0 |
| EF0.17 | 68.9% | 18.1% | 1031.5 |
| EF0.18 | 69.7% | 20.3% | 330.6 |
| EF1 | 67.7% | 16.4% | 584.5 |
| EF2.1 | 70.0% | 19.9% | 664.3 |
| EF2.2 | 70.0% | 19.6% | 1788.9 |
| EF2.3 | 66.1% | 13.3% | 38.7 |
| EF2.4 | 67.9% | 16.0% | 231.4 |
| EF2.5 | 66.2% | 13.4% | 97.0 |
| EF3.1 | 67.4% | 15.1% | 221.5 |
| EF3.3 | 69.0% | 17.4% | 480.0 |
| EF4.1 | 68.6% | 16.7% | 158.6 |
| EF4.2 | 67.4% | 14.9% | 157.7 |
| EF4.3 | 67.1% | 14.4% | 373.7 |
| FC0 | 59.9% | 4.2% | 53.3 |
| FC0.1 | 58.3% | 2.9% | 684.2 |

| Reach | Westslope Cutthroat Trout | Bull Trout | Length (m) |
|---|---|---|---|
| FC0.2 | 62.5% | 6.2% | 1059.3 |
| FC0.3 | 60.7% | 5.3% | 366.2 |
| FC1 | 59.0% | 4.0% | 1293.3 |
| FC2 | 63.7% | 7.3% | 727.1 |
| FC3 | 58.8% | 4.3% | 118.5 |
| GC0 | 56.4% | 0.9% | 674.7 |
| GC1 | 57.4% | 1.0% | 72.7 |
| HC1.2 | 61.9% | 2.6% | 586.4 |
| HC1.3 | 58.0% | 1.7% | 461.7 |
| HL1 | 68.5% | 10.6% | 237.2 |
| HL2 | 68.1% | 11.4% | 703.6 |
| MC0.01 | 56.2% | 1.1% | 702.9 |
| MC0.02 | 62.7% | 3.0% | 401.5 |
| MC0.04 | 60.0% | 3.1% | 282.9 |
| MC0.06 | 61.5% | 5.3% | 744.9 |
| MC0.1 | 64.4% | 4.0% | 490.8 |
| MC0.7 | 55.7% | 1.4% | 104.9 |
| MC1.1 | 62.7% | 3.5% | 1368.7 |
| MC1.2 | 59.7% | 2.1% | 891.9 |
| MC1.31 | 57.9% | 3.2% | 820.2 |
| MC1.4 | 67.6% | 8.6% | 1167.9 |
| MC1.5 | 69.1% | 12.4% | 999.4 |
| MC2 | 69.6% | 12.6% | 259.7 |
| MC3 | 69.8% | 13.2% | 653.5 |
| MC4.1 | 67.5% | 9.4% | 634.7 |
| MC4.2 | 67.8% | 9.8% | 63.4 |
| MC5 | 68.0% | 11.5% | 83.7 |
| MC6 | 67.9% | 11.6% | 718.4 |
| MN1 | 60.6% | 2.2% | 136.0 |

# APPENDIX D: MINE SITE OM SENSITIVITY ANALYSIS

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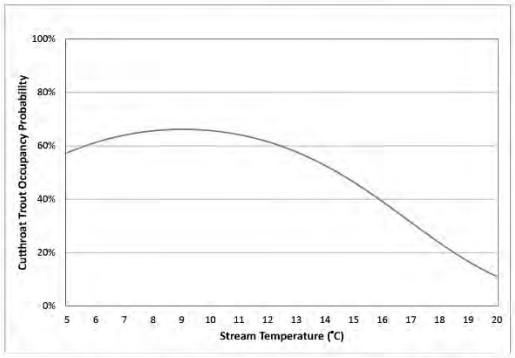

**Occupancy Probability as a Function of Stream Temperature**

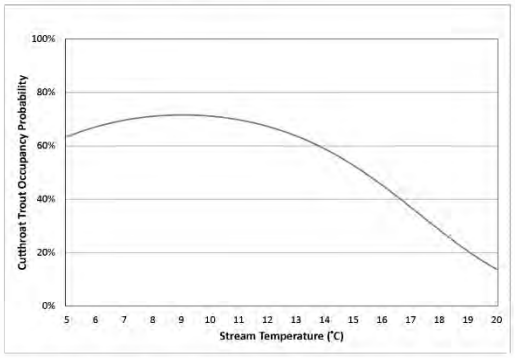
## Westslope Cutthroat Trout

Basecase

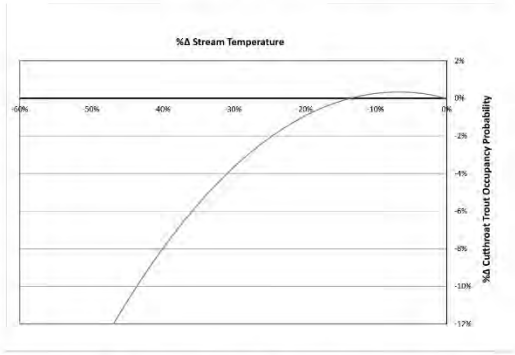
MC5 Reach Case

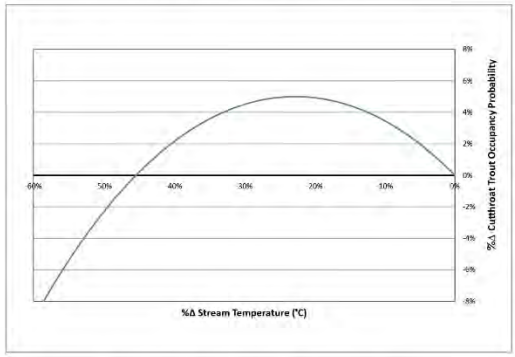
**Change in Occupancy Probability as a Function of Stream Temperature**



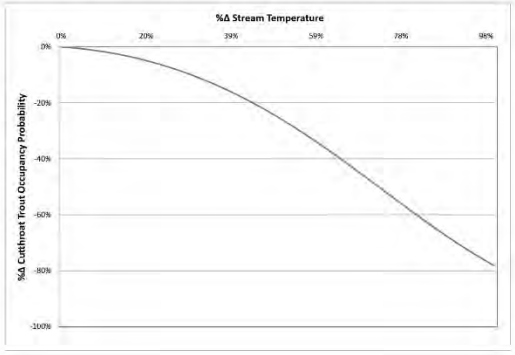



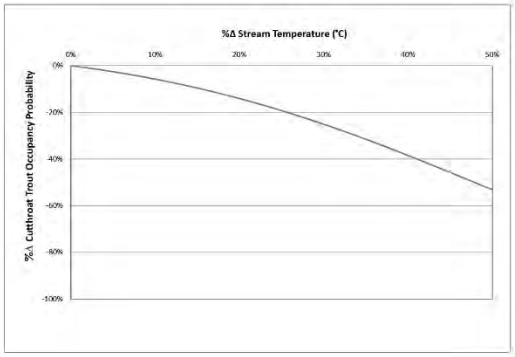

**Percent Change in Occupancy Probability as a Function of Percent Decrease in Stream Temperature**




**Percent Change in Occupancy Probability as a Function of Percent Increase in Stream Temperature**



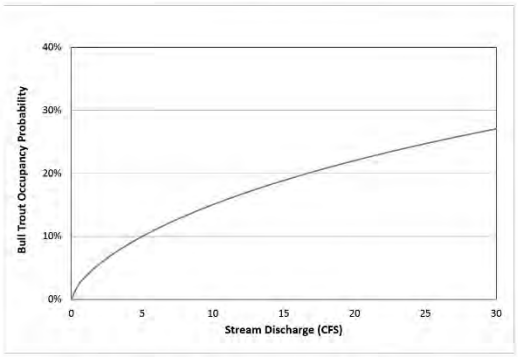

**Occupancy Probability as a Function of Stream Discharge**

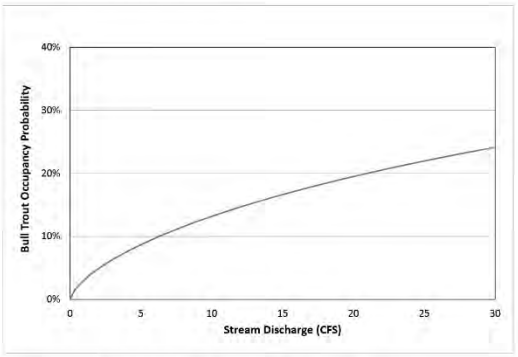
# Bull Trout

Basecase

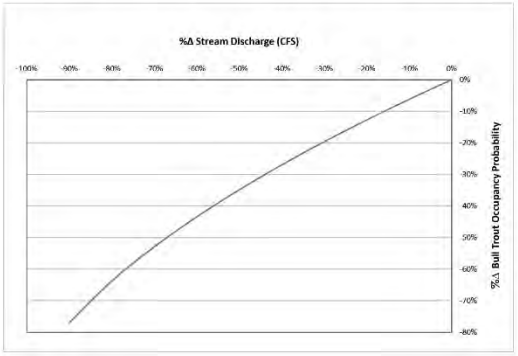
MC5 Reach Case

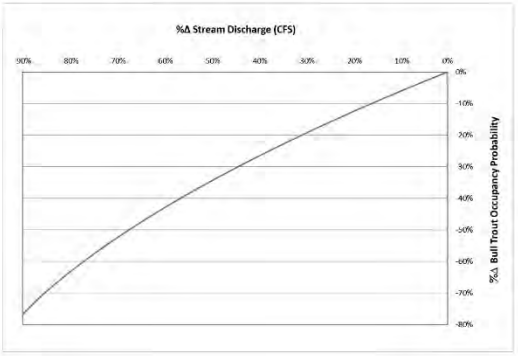
**Change in Occupancy Probability as a Function of Stream Discharge**



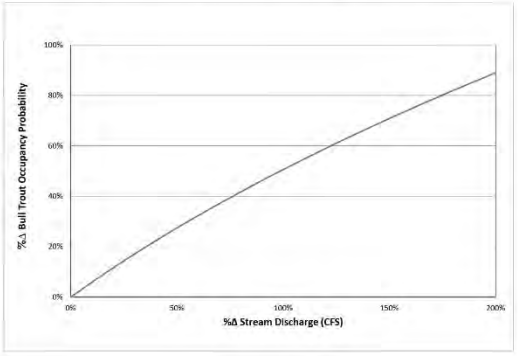



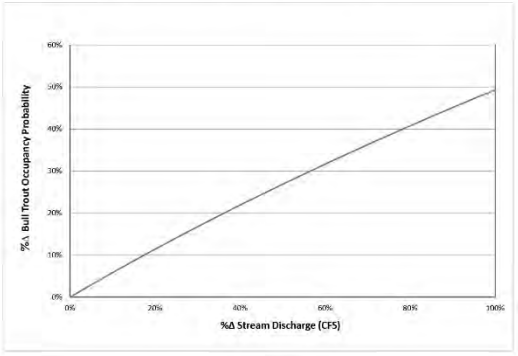

**Percent Change in Occupancy Probability as a Function of Percent Decrease in Stream Discharge**




**Percent Change in Occupancy Probability as a Function of Percent Increase in Stream Discharge**



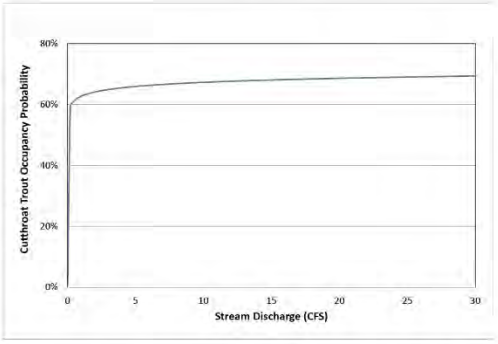



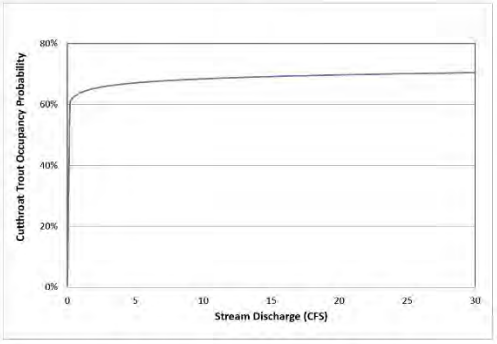
## Westslope Cutthroat Trout

Basecase

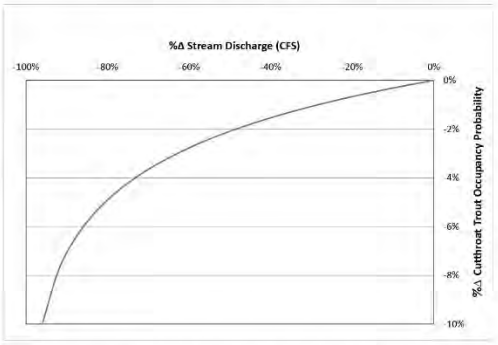
MC5 Reach Case

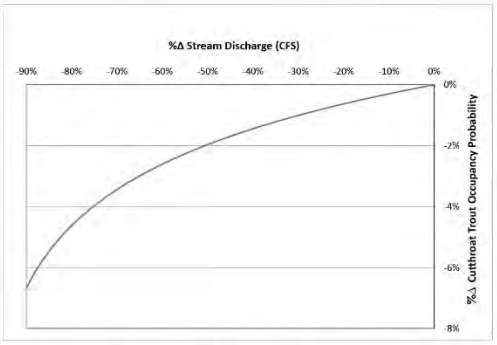
**Change in Occupancy Probability as a Function of Stream Discharge**



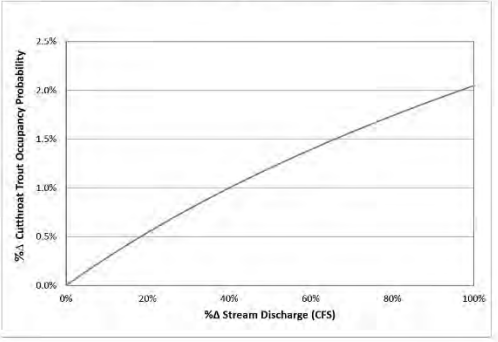



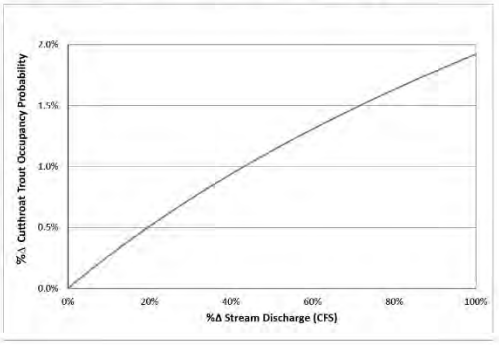

**Percent Change in Occupancy Probability as a Function of Percent Decrease in Stream Discharge**




**Percent Change in Occupancy Probability as a Function of Percent Increase in Stream Discharge**



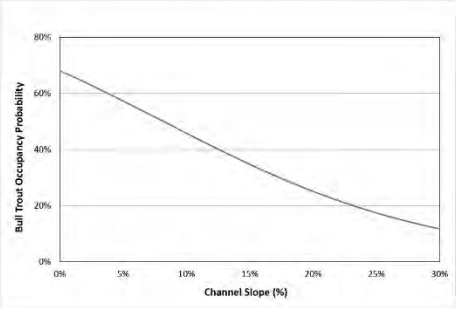

**Occupancy Probability as a Function of Channel Slope**

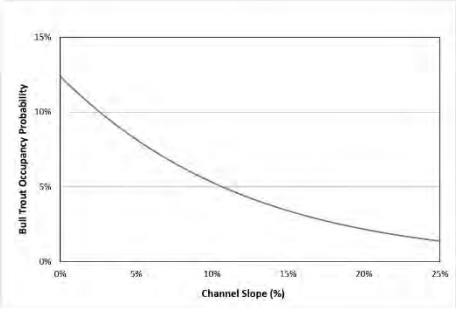
# Bull Trout

Basecase

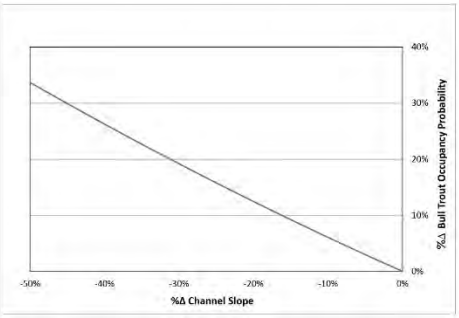
MC5 Reach Case

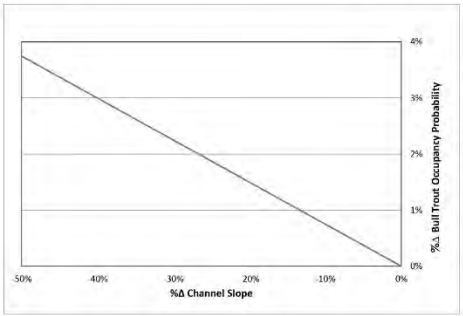
**Change in Occupancy Probability as a Function of Channel Slope**



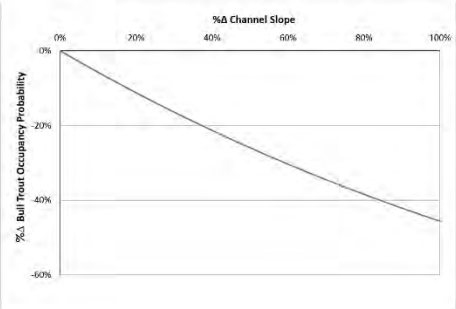



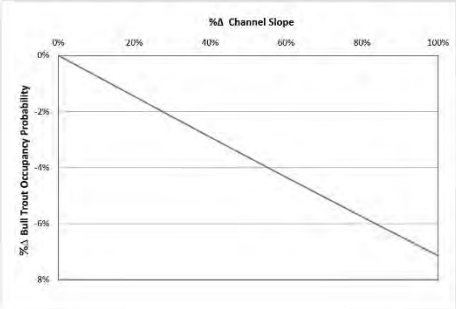

**Percent Change in Occupancy Probability as a Function of Percent Decrease in Channel Slope**




**Percent Change in Occupancy Probability as a Function of Percent Increase in Channel Slope**



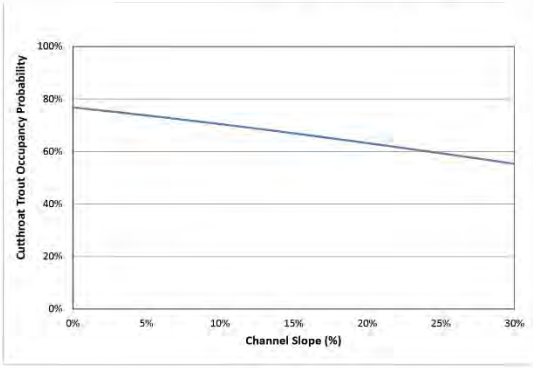



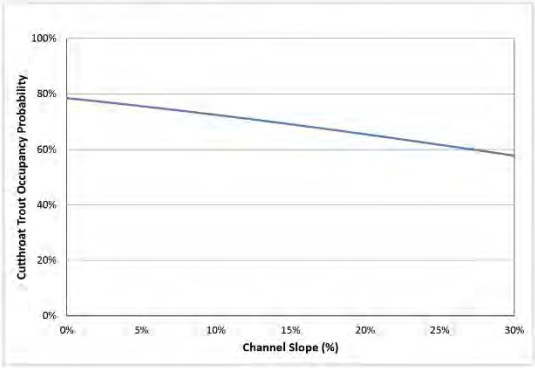
# Westslope Cutthroat Trout

Basecase

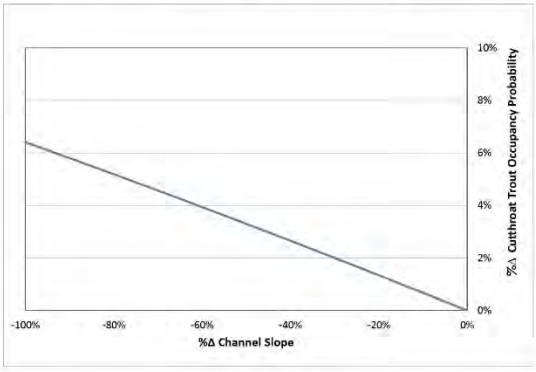
MC5 Reach Case

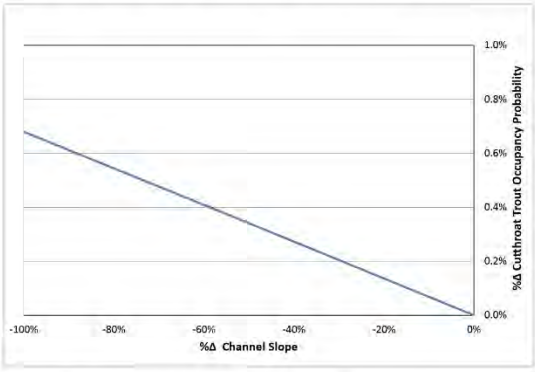
**Change in Occupancy Probability as a Function of Channel Slope**



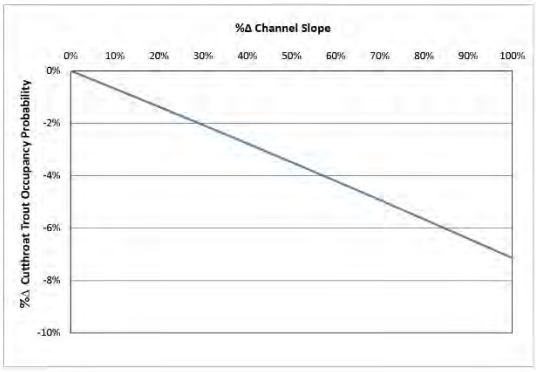



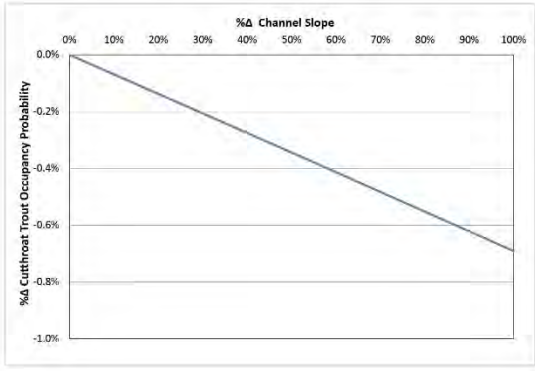

**Percent Change in Occupancy Probability as a Function of Percent Decrease in Channel Slope**




**Percent Change in Occupancy Probability as a Function of Percent Increase in Channel Slope**



# HABITAT OCCUPANCY MODEL WESTSLOPE CUTTHROAT TROUT AND BULL TROUT Alternative 1

Technical Memorandum

Stibnite Gold Project, Idaho

November 22th, 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

Ecosystem Sciences

Science · Planning · Design

Ecosystem Sciences
202 N. 9th Street, Suite 400
Boise, ID 83702
T: 208.383.0226

Prepared for: AECOM

Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Habitat Occupancy Model Westslope Cutthroat Trout and Bull Trout
Alternative 1

Date: December 2019

To: AECOM

From: Ecosystem Sciences

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## Definitions

| | |
|---|---|
| Channel Slope | Stream gradient, expressed as a percentage. |
| DEM | Digital Elevation Model. |
| DRSF | Development rock storage facility |
| ESA | Endangered Species Act. |
| ESA group | Organizations consistently involved in approximately monthly meetings during the informal consultation process. The principal agencies were USFS, USFWS, USACE, NOAA and Midas Gold. There were occasional members and numerous consultants who all participated in the group. |
| Existing Regional OM | Either of the two example occupancy modeling papers published by the Rocky Mountain Research Station; Isaak et al. 2015 or Isaak et al. 2017. |
| GIS | Geographic Information System. |
| Occupancy Probability | The probability that the species of interest will occur in a given stream reach based on physical and geomorphic characteristics. For this report habitat occupancy is determined using methods by Isaak et al. 2017. |
| Lidar | Light detection and ranging. |
| Midas Gold | Midas Gold Idaho, Inc. |
| Mine Life | The timeframe that the mine is operational. For this study mine life is defined by the Plan of Operations (Midas Gold 2016) and the SPLNT model (Brown and Caldwell 2019). Mine life = years negative 2 through year 20. |
| Mine Site OM | The occupancy model produces for the study area with mine site-scale date inputs for stream temperature, stream discharge, and channel slope. |
| Mine Site OM Reaches | The final set of stream reaches, consisting of merged SFA and NHDPlus V2 stream reaches, for which model variables were attributed and occupancy probabilities were produced. |
| NOAA Fisheries | National Oceanic and Atmospheric Administration Fisheries. |
| Proposed Action (PA) | Proposed action as defined by the PRO. Also referred to as Alternative 1. |
| PRO | Project plan as described in the Midas Gold Plan of Restoration and Operations dated September 2016. |
| RMRS | Rocky Mountain Research Station |
| SPLNT Report | Stream and Pit Lake Network Temperature Model PA Report (Brown and Caldwell 2019) |
| Streamlines | The ESRI ArcMap shapefile that estimates the precise location of the stream watercourses within the study area. |

| | |
|---|---|
| Stream Discharge | Modeled or measured stream discharge associated with a given stream reach. This variables unit of measure is cubic feet per second (CFS). |
| Stream Temperature | Modeled or measured stream temperatures associated with a given stream reach. This variables unit of measure is degrees Celsius. |
| Stream Functional Assessment (SFA) | Stream Functional Assessment. This term refers to the reaches within the mine site area for which the Stream Functional Assessment was performed or for the ESRI shapefile with the same name. |
| TSF | Tailings storage facility |
| USFS | United States Forest Service |
| USFWS | U.S. Fish and Wildlife Service |
| USACE | United States Army Corps of Engineers |

# 1.0 INTRODUCTION

This Technical Memorandum (TM) presents the methods and results of the Stibnite Gold Project proposed action (Alternative 1) occupancy model (OM) for native westslope cutthroat trout (*Onchorhynchus clarkia lewisi*) and bull trout (*Salvelinus confluentus*) within the study area (as defined in Section 2.0). The proposed action (PA) is defined by the Midas Gold Plan of Restoration and Operations (PRO) dated September 2016 (Midas Gold 2016). The goal of this TM is to derive occupancy probabilities, which represent the likelihood that the two native trout species will occupy streams within the study area. The mine life in this context is defined as two years before mining activities would commence (mine year -2) and lasting for the twenty years that mining operations and reclamation are scheduled to occur. The proposed action timeframe consists of 22 years in total; the OM was run for three years that are representative of various conditions throughout the life of the mine. The selected model runs are end of year (EOY) 6, EOY 12, and EOY 18. One year was selected to represent the post mine period (EOY 112). Results from the proposed action OM are compared to existing conditions OM results, as reported in a separate TM titled, "Existing Conditions (Baseline) Occupancy Model Technical Memorandum" (Ecosystem Sciences 2019).

The OM model provides occupancy probabilities for the two native trout species within the study area reaches (**Figure 1**), which consists of the Upper East Fork South Fork Salmon River (EFSFSR) from its confluence with Sugar Creek upstream to its headwaters (Hydrologic Unit Code [HUC] 12—Headwaters East Fork South Fork Salmon River). This TM uses the same methods and analyses that were presented in the Existing Conditions (Baseline) Occupancy Model Technical Memorandum (Ecosystem Sciences 2019). These two memos combined describe OM results for existing conditions and Alternative 1 through post mine life, including representative model years from throughout the 22-year mine life.

The mine site occupancy model quantifies potential habitat for each stream reach by assigning probabilities that each of the species will occur within a given stream reach. The study area for all proposed action model years and the post mine model year is the same as the study area for existing conditions, with the exception of reaches for which stream discharge would be diverted into hillslope channels during proposed action model years or would be restored. Reaches that would be dewatered during proposed action model years are not accounted for in the proposed action modeling. This can be seen in the loss of available habitat from the existing conditions model results to proposed action model results from EOY 6 and EOY 12.

The model calculates occupancy probabilities for each the two native trout species based on the combination of three independent variables: stream discharge, stream temperature, and channel slope. The resulting occupancy probabilities were run through a sensitivity analysis, which was utilized to determine the level of influence that each of the model's independent variables has on the model's dependent variable (occupancy probability). The continuous range of occupancy probabilities are represented in percentages, from 0%-100% for each reach. This modeling effort provides a quantitative measure from which to gauge how proposed project actions affect habitat for native bull trout and westslope cutthroat trout within the mine site study area.

Section 1.1 of this document details the stakeholders involved in this analysis. Section 2.0 provides detail about the geographic extent of the study area. Section 3 explains the methods that were used to produce the proposed action OM probabilities. The methods used and their precedence are detailed in the Existing Conditions (Baseline) Habitat Occupancy Model Technical Memorandum (Ecosystem Sciences 2019). Section 4 presents the resulting occupancy

probabilities from the mine site OM for years representing proposed action and post mine life. Lastly, the results are discussed and summarized in sections 5 and 6.

## 1.1 CONSULTATION

This modeling effort is a result of an extensive consultation process involving members of the Endangered Species Act (ESA) fish informal consultation group (ESA group[1]) involved in the Stibnite Gold Project. The original concept and approach to adapting the existing OM for the region, which is documented in the publication "*Big biology meets microclimatology: defining thermal niches of ecotherms at landscape scales for conservation planning*" (Isaak et al. 2017), was initially presented to the ESA group on February 7, 2018. Over the course of the next year and half, the methods, data inputs, analysis, and results were discussed on numerous conference calls, in-person meetings, and via email correspondence. Numerous presentations were made at informal ESA consultation meetings beginning in June 2018 and recurring, generally, monthly. Information presented at these meetings included, but was not limited to—scale dependencies; general appropriateness and adaptability of Isaak et al. 2017; derivation and refinement of the streamlines (the GIS shapefile used to represent the specific location of the streams within the mine site study area) to be used; stream segmentation process; derivation of model variables (stream discharge, stream temperature, and channel slope); sensitivity analyses of model variables, and; the utility of applying occupancy probabilities. Numerous modeling decisions regarding scale, data inputs, etc. were made based on ESA group input. For example, the decision to model mine site OM variables using the same methods that were used in the existing regional OM was based on feedback from the ESA Group.

[1] ESA group consisted of USFS, NOAA Fisheries, USFWS, Midas Gold, and USACE. Other entities occasionally attended meetings, but these entities constituted the core group of participants.

# 2.0 STUDY AREA

The mine site OM study area encompasses approximately 43 square miles at the headwaters of the East Fork of the South Fork of the Salmon River (EFSFSR). Identical to the existing conditions mine site OM study area, the study area for the proposed action and post mine life stages includes all perennial stream courses within the Upper East Fork South Fork Salmon River watershed (HUC 10 - 1706020802). The Headwaters East Fork South Fork Salmon River (HUC 12 - 170602080201) contains the SFA reaches or mine site impact areas, while Sugar Creek (HUC 12- 1706020803) is not within the model proposed action mine site OM study area (**Figure 1**). Occupancy probabilities are summarized for four mine site stream segments within the study area. These include: Stream Segment 1 (Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek), Stream Segment 2 (Meadow Creek drainage area, including the East Fork Meadow Creek), Stream Segment 3 (Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek), and Stream Segment 5 (HUC 12 “Headwaters East Fork South Fork Salmon River” or the summation of Stream Segments 1, 2 and 3). In total, there are six mine site stream segments (**Appendix A** defines each stream segment and provides a map showing their respective spatial extent).

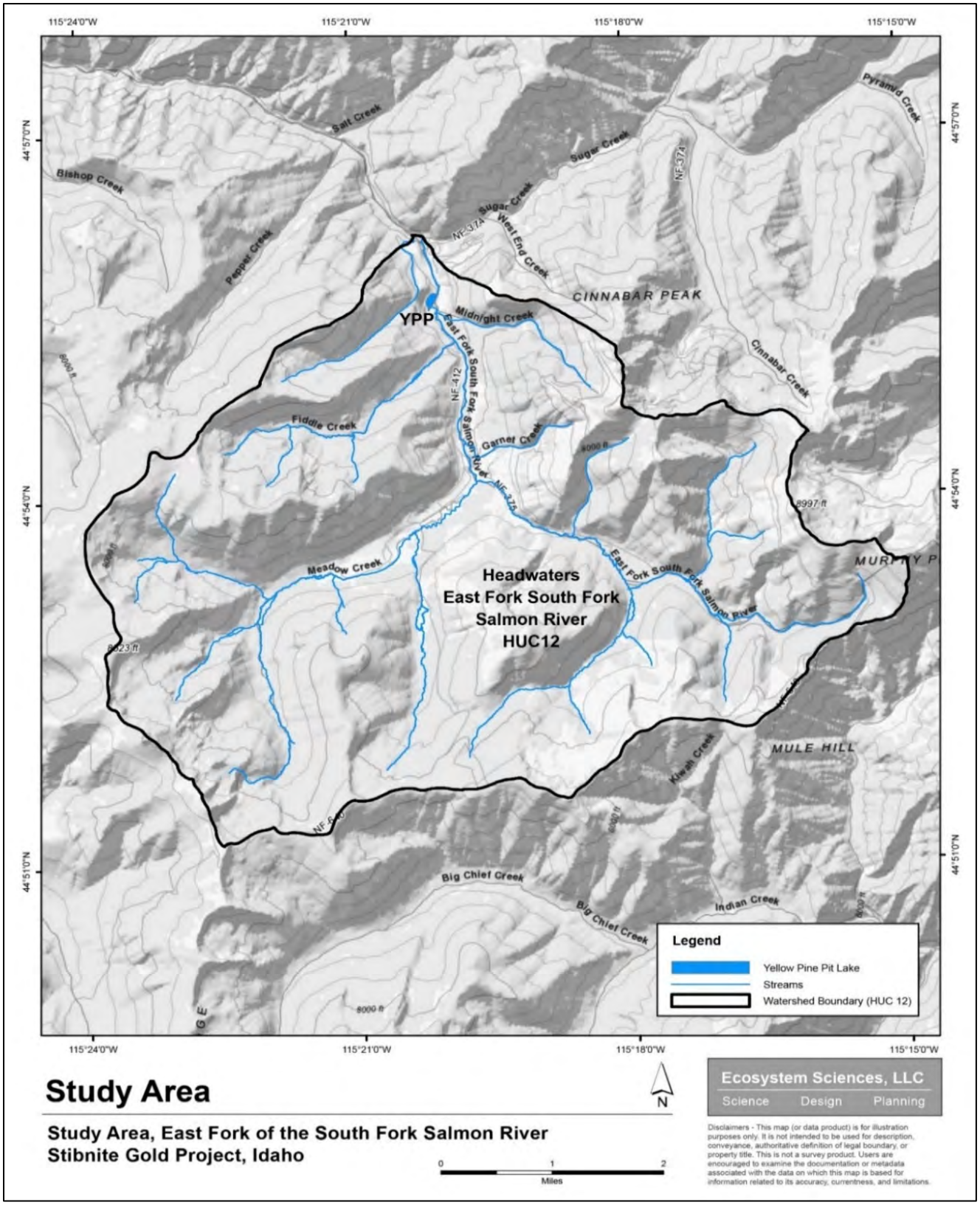



**Figure 1. Proposed Action Mine Site OM Study Area for Westslope Cutthroat Trout and Bull Trout**

# 3.0 METHODS

Similar to the existing conditions OM (Ecosystem Sciences 2019), the proposed action OM approach is based on the existing regional OM methodologies from Isaak et al. 2015 and 2017 (see Existing Conditions (Baseline) Occupancy Model TM). Methods from Isaak et al. 2017 were adapted to the mine site study area through the use of higher resolution data inputs (a Lidar-derived DEM and reach-based modeled stream temperature [SPLNT] and stream discharge data). Stream Functional Assessment (SFA) reach configurations from EOY 6, EOY 12, EOY 18, and EOY 112 were combined with unaffected headwater reaches and attributed with model variable data. Rio ASE provided modeled stream discharge and slope data associated with enhanced and restored reaches (Rio ASE, 2019a); Brown and Caldwell provided modeled stream temperature data (Brown and Caldwell, 2019). Two steps from Isaak et. al 2015 were included—reaches with stream discharges below 0.2 cfs and channel slopes above 15% were trimmed from the proposed action OM model. The workflow of methods used in the proposed action mine site OM model is detailed in **Figure 2**.

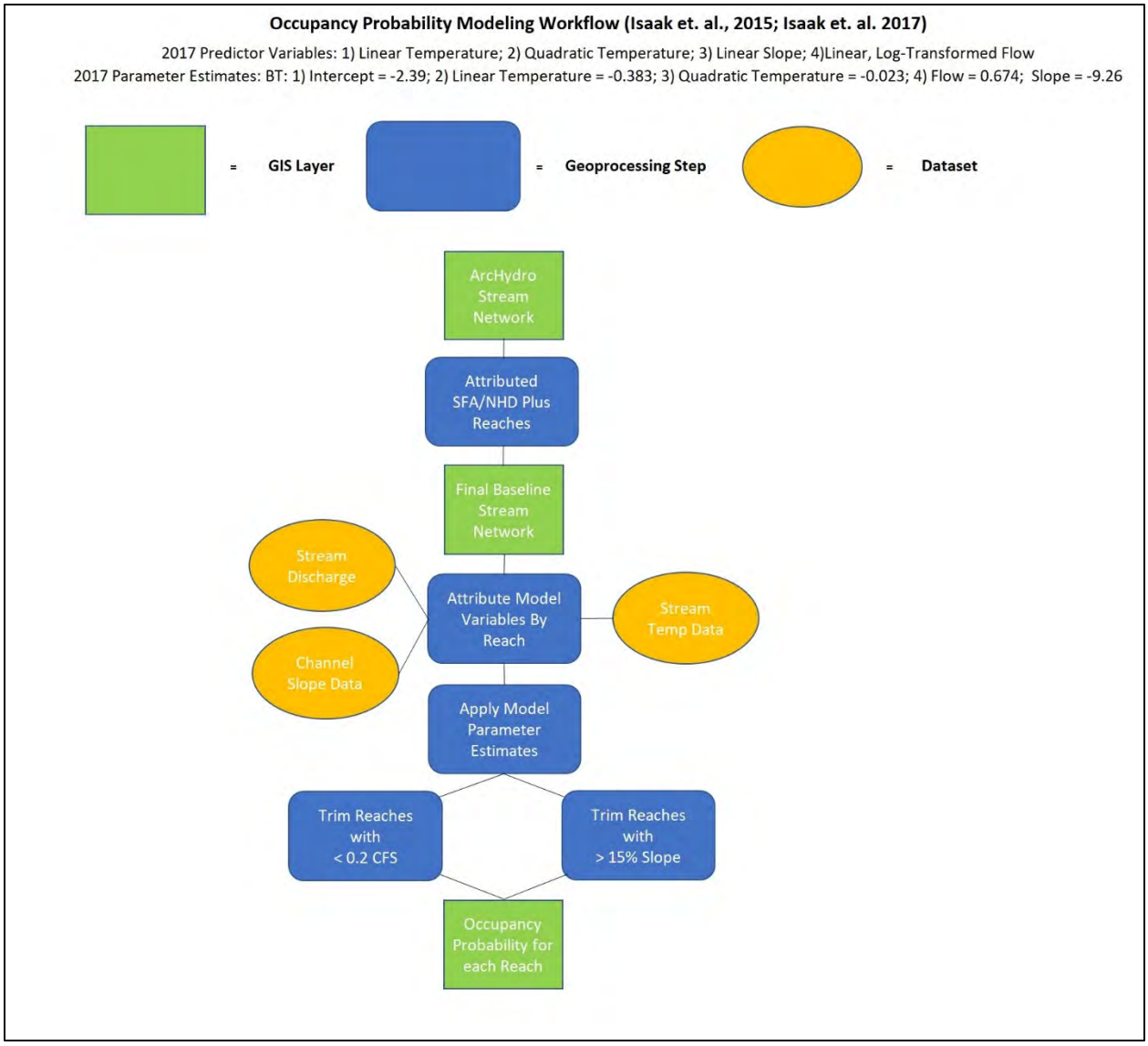



**Figure 2. Mine Site OM Workflow for Westslope Cutthroat Trout and Bull Trout**

## 3.1 PROPOSED ACTION PERTINENT EVENTS

The stream configuration within the study area changes throughout the mine life as actions of the project are implemented; some actions would be permanent while others would be temporary—inactive during the mine life, only to be reactivated at a later time. **Table 1** describes the pertinent events occurring throughout the mine life and the SFA reaches (stream segments) that would be affected. The mine life events and stream configuration (SFA reaches affected) changes shown in **Table 1** were obtained from the "*Stibnite Gold Project Stream and Pit Lake Network Temperature Model (SPLNT) Proposed Action and Proposed Action with Modifications Report*" (Brown and Caldwell 2019), herein referred to as the SPLNT report. The PRO (Midas Gold 2016) also provided information on mine life actions. Section 10 of the SPLNT report provides map-based, graphical representations of the year-to-year changes during mine life (Brown and

Caldwell 2019). On each map in section 10 the following note appears, "*Activities are depicted in the earliest possible year of implementation. Actual implementation will be phased to accommodate site construction activities, material availability (earth, rock and vegetation), lodging for workforce, mine plan, and general leveling of contractor and internal resources*" (Brown and Caldwell 2019). Therefore, there may be changes to the schedule as the project progresses; however, impacts to native trout occupancy within the study area would be consistent with the event that causes those changes to occur. For example, the filling of Hangar Flats Lake may take more or less time based on the magnitude of precipitation during the water years (i.e., low water years or high-water years) that the pit is being filled. Regardless of how accurately the proposed schedule of mine activities is, the modeled occupancy probabilities reflect the proposed actions themselves.

**Table 1. Proposed Action Pertinent Events per Year that Affect SFA Stream Reach Configurations. Adapted from SPLNT Report (Brown and Caldwell 2019). Proposed Action OM Years are Bolded and underlined.**

| Mine Year | Proposed Action Events Impacting IP Streams | SFA Reach/s Affected |
|---|---|---|
| Neg. 2 (-2) | Meadow Creek and tributaries diverted around both sides of TSF and Hangar Flats DRSF. EFSFSR tunnel construction begun but no water diverted. | MC0.7 to MC1.5, MC2, MC3, MC4.1 |
| Neg. 1 (-1) | EFSFSR Tunnel completed water diversion initiated, Hennessy and Midnight Creek diverted into tunnel, EFSFSR and Meadow Creek enhancement, Meadow Creek restored around Hangar Flats pit, EF Meadow Creek (Blowout Creek) engineered channel/rock drain, West End diversion completed. | BC2, BC2.1, BC3, EF1, EF2.1 – EF2.4, EF3.2, EF3.3, EF4.1, HL1 and HL2, MN0, MC4.2, MC 5, MC6, WE1, WE2, WE3, WL1 |
| 1 | YPP dewatered (EFSFSR flow in tunnel), rapid infiltration basins (Hangar Flats) initiated. | |
| 2 | Fiddle Creek diverted around DRSF | FC0, FC1, FC2 |
| 3 | Same configuration as Mine Year 2 | |
| 4 | Same configuration as Mine Year 2 | |
| 5 | Same configuration as Mine Year 2 | |
| **6** | **Same configuration as Mine Year 2** | |
| 7 | West End Creek restored atop DRSF | WE1 |
| 8 | Fiddle Creek restoration begun but no flow diverted | |
| 9 | Initial flow diverted into restored Fiddle Creek channel | FCO, FC1, FC2 |
| 10 | All flow diverted into restored Fiddle Creek channel | FCO, FC1, FC2 |
| 11 | EFSFSR, Hennessy Creek and Midnight Creek restoration begun but no flow diverted | |
| **12** | **Portion of flow diverted into EFSFSR, Hennessy Creek and Midnight Creek restored channels** | **EF2.5, EF3.1, EF3.2, EF3.3, EF4.1, HC1.1, HC1.2, MN0, MN0.4, MN1, MN2** |
| 13 | All flow diverted in EFSFSR, Hennessy Creek and Midnight Creek restored channels. Hangar Flats (HF) Lake begins to fill. Entrance and exit channels constructed connecting Meadow Creek and EF Meadow Creek (Blowout Creek) to HF lake. Restore EF Meadow Creek (blowout Creek) from upper meadow to confluence with Meadow Creek. West End Rock chute constructed | EF2.5, EF3.1, EF3.2, EF3.3, EF4.1, HC1.1, HC1.2, MN0, MN0.4, MN1, MN2, BC1, BC2, BC2.1, BC3, MC4.2, MC5, WE2, WE3 |
| 14 | Same configuration as Mine Year 13 | |

| Mine Year | Proposed Action Events Impacting IP Streams | SFA Reach/s Affected |
|---|---|---|
| 15 | EFSFSR Tunnel decommissioned, HF lake continues to fill. Garnett Creek restored. | G1 |
| 16 | Same configuration as Mine Year 15 | |
| 17 | Meadow Creek constructed on TSF and DRSF. Portion of flow diverted intro restored channel. | MC0.7, MC0.8, MC0.8, MC1.1 – MC1.5, MC2, MC3, MC4.1 |
| **18** | **All flow diverted into Meadow Creek restored channels on TSF and DRSF** | **MC0.7, MC0.8, MC0.8, MC1.1 – MC1.5, MC2, MC3, MC4.1** |
| 19 | Hanger Flats Lake is full. HL 1 and HL2 are now decommissioned. | HL1, HL2, MC4.2, MC5, BC3 |
| 20 | Same configuration as Mine Year 19 – Same channel configuration as Post/Closure Restoration (Figure 3.3 SPLNT Model and Proposed Action Report) | |
| **112** | **Same configuration as Mine Year 19 – Same channel configuration as Post/Closure Restoration (Figure 3.3 SPLNT Model and Proposed Action Report)** | |

## 3.2 DATA EMPLOYED

The proposed action OM required several steps and model inputs. **Table 2** shows the input variables, their units of measurement, their temporal and spatial resolutions, and sources of each dataset used in the mine site OM. Stream temperature inputs for the proposed action OM were created using the QUAL2K model (Tufts University, 2015) and were based on water temperature measurements collected at several sites by the USGS and HDR Engineering (HDR, 2015). Empirical stream discharge measurements at five gage locations within the study area were used to condition a basin area-to-stream flow regression equation created by Rio ASE (Rio ASE, 2018). The results provided the stream reach discharges for the mine site OM. Channel slope for each model reach was calculated in GIS by dividing the elevation loss of each reach (top of reach elevation value less bottom of reach elevation value) by the reach length.

**Table 2. Mine Site OM Variable Metadata**

| | Stream Temperature | Stream Flow | Channel Slope |
|---|---|---|---|
| Unit of Measurement | Mean Stream Temperature (°C) | Mean Stream Discharge (cfs) | Slope (%) |
| Temporal Resolution | August (Period of Record) | July 16-Sept. 30 (Period of Record) | N/A |
| Spatial Resolution | Mine Site OM Reach Domain Scale | Mine Site OM Reach Domain Scale | Mine Site OM Reach Domain Scale |
| Data Source | Final SGP SPLNT Existing Conditions Report (Brown and Caldwell, 2019 | RIO ASE (Rio ASE, 2019) | Ecosystem Sciences |

## 3.3 STREAM FUNCTIONAL ASSESSMENT REACHES

Stream Functional Assessment reaches were provided to Ecosystem Sciences by Midas Gold (Rio ASE, 2018). Refer to the Existing Conditions (Baseline) Occupancy Model TM for details on

the steps taken to create the final set of OM reaches. For each proposed action model year, only perennial reaches that would contain stream flow during that year were selected. Reaches without streamflow due to diversion were excluded from the analysis.

## 3.4 STREAM TEMPERATURE

Stream temperatures during and post-closure were provided by the SPLNT Proposed Action Report (Brown and Caldwell, 2019) and modeled using QUAL2K. These stream temperatures were originally produced for a time period that did not match the low flow period used by Isaak et al. 2017; a dedicated model run was performed to output SPLNT reach temperatures that represented mean August temperature in degrees Celsius for each of the proposed action model years. SPLNT reaches did not spatially match mine site OM reaches, so a transfer of temperatures was necessary for all selected proposed action model years. A distance weighted average was used for the transfer—for example, if more than one SPLNT reach occurred within one mine site OM reach, then the temperature for each SPLNT reach was multiplied by its length as a proportion of the entire mine site OM reach length. All temperatures were then added to produce the distance-weighted average for each mine site OM reach. Any mine site OM reaches that occurred upstream of the SPLNT model domain were attributed with the stream temperature assigned to the closest downstream SPLNT reach.

Descriptive statistics for stream temperature distributions associated with each of the proposed action model years, as well as for existing conditions, are shown in **Table 3**.

**Table 3. Descriptive Statistics for Stream Temperature Distributions for each Proposed Action Model Year and Existing Conditions**

| | Stream Temperature (°C) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 7.91 | 7.99 | 7.99 | 8.00 | 7.99 |
| Max | 11.77 | 12.60 | 12.52 | 16.97 | 16.88 |
| Median | 9.98 | 9.32 | 9.78 | 10.32 | 10.29 |
| Mean | 9.84 | 9.80 | 10.15 | 10.91 | 10.47 |
| SD | 1.22 | 1.44 | 1.49 | 2.34 | 2.04 |

## 3.5 STREAM DISCHARGE

Stream discharge for proposed action model years were originally modelled using MODFLOW, a spatially distributed ground and surface water flow program created by the USGS (Harbaugh, 2005). However, the timeframe of stream discharge that was modeled using the MODFLOW model was inconsistent with the timeframe used in the existing regional OM. The existing regional OM utilized stream discharge values from the Variable Infiltration Capacity (VIC) hydrologic model, which uses mean summer flow (MS). Mean summer flow describes the lowest-flow period that may be most limiting to fish and may correlate to maximum water temperature (Isaak et al. 2010). For the VIC model, the start of summer is defined as the first day after June 1 when flows fall below the mean annual value, which ensures that summer starts after the subsidence of the snowmelt flood; the end of summer is defined as September 30, regardless of starting date (Wenger et al., 2010). For the mine site study area, July 16 was calculated to be the start of summer (Rio ASE, 2018). Modelled flows for the July 16-September 30 timeframe were supplied

using a regression equation that links basin area to streamflow measurements taken at various sites within the study area.

Isaak et al. 2015 trimmed reaches within their network that have discharges less than 0.2 cfs because trout are rare in such small streams. The mine site OM used a 0.2 cfs restriction within the headwater reaches of the mine site OM stream network. RIO ASE imposed the flow threshold when outputting flows using their basin area-to-streamflow regression exercise.

Descriptive statistics for stream discharge distributions associated with each of the proposed action model years, as well as for existing conditions, are shown in **Table 4**.

**Table 4. Descriptive Statistics for Stream Discharge Distributions for each Proposed Action Model Year and Existing Conditions**

| | Stream Discharge (CFS) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 0.31 | 0.45 | 0.25 | 0.31 | 0.31 |
| Max | 18.87 | 17.74 | 17.91 | 18.11 | 19.87 |
| Median | 1.60 | 1.66 | 1.58 | 1.27 | 1.58 |
| Mean | 4.98 | 4.67 | 5.32 | 4.13 | 4.89 |
| SD | 6.15 | 5.61 | 6.34 | 5.41 | 6.14 |

## 3.6 CHANNEL SLOPE

Channel slope for each mine site OM reach was delineated in ArcGIS 10.6 using a one-meter lidar DEM. Elevation values associated with the stream network were extracted from the DEM and added to the mine site OM reach stream network. The elevation in meters (m) from the upstream and downstream end of each mine site OM reach were extracted from the DEM and the difference divided by reach length.

Isaak et al. 2015 trimmed reaches within their network that had a slope greater than 15 percent because trout are rare in such high gradient stream reaches. The mine site OM used a 15 percent restriction within the headwater reaches of the mine site OM stream network. Headwater reaches above the 15 percent threshold were trimmed from the network. There were four reaches (EF3.2, MC0.8, HC1.4, and MN2) located between in-network lower gradient reaches that were also removed from the modeling effort. Most of the potentially occupied habitat for the two species within the study area is limited to the main trunk streams—EFSFSR, Meadow Creek and their immediate low-gradient tributaries.

Descriptive statistics for channel slope distributions associated with each of the proposed action model years, as well as for existing conditions, are shown in **Table 5**.

**Table 5. Descriptive Statistics for Channel Slope Distributions for each Proposed Action Model Year and Existing Conditions**

| | Channel Slope (%) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 0.45 | 0.44 | 0.44 | 0.11 | 0.11 |
| Max | 33.14 | 13.84 | 32.49 | 32.49 | 32.49 |
| Median | 6.33 | 5.05 | 4.87 | 4.53 | 4.53 |
| Mean | 7.39 | 5.96 | 6.14 | 6.16 | 6.16 |
| SD | 6.08 | 3.69 | 5.08 | 5.78 | 5.78 |

## 3.7 MODEL INPUT TRANSFORMATIONS

For the purposes of producing occupancy probabilities for mine site OM reaches, the site-specific values for each independent variable (stream temperature, stream discharge and channel slope) had to be matched up with the model parameter estimates from Isaak et al. 2017. The parameter estimates and model variables published in Isaak et al. 2017 were back transformed and so were on their original scales (units of measurement). In order to use the parameter estimates from Isaak et al. 2017, they needed to be re-transformed into a standardized form (unitless). Similarly, all mine site OM variables required standardization before they could be applied to the mine site OM. Transformations to the parameter estimates were done by Seth Wenger, author and lead modeler for Isaak et al. 2017 (personal communication, February and March 2019 [Wenger pers. com 2019]). The mine site OM variables were transformed using a method employed by Gelman and Hill, 2006. The variable and occupancy probability values (in their original units of measurement) for each modeled reach within each modeled year are reported in **Appendix B**.

## 3.8 FISH ACCESS AND BARRIERS

For this modelling effort, only perennial streams were considered; any SFA stream reaches labeled as intermittent or non-perennial were trimmed from the final set of streams. Further restrictions include maximum slope and minimum flow limitations. Any mine site OM reaches that had a slope greater than 15 percent or a flow less than 0.2 cfs were trimmed from the final set or streams. A separate TM provides detail on additional fish barriers.

# 4.0 RESULTS

Section 4 details the results of the mine site proposed action OM. Results are summarized for four mine site stream segments within the study area (Stream Segment 1, Stream Segment 2, Stream Segment 3, and Stream Segment 5) for EOY 6, EOY 12, EOY 18, and EOY 112.

To calculate the average occupancy probability for each stream segment, a distance weighted average method was used. To produce the distance weighted average, the occupancy probability of each mine site OM reach was multiplied by the proportion of that reach's stream length to the cumulative stream length of the geographic unit of interest. Occupancy probabilities for each area are reported in quartile form (i.e., four classes of equal size)—the first quartile representing the reaches with the lowest occupancy probabilities and the fourth quartile representing reaches with the highest occupancy probabilities. The values used to delineate the quartiles for each geographic extent in the proposed action modeling were calculated from all existing condition reach occupancy probabilities for the study area.

## 4.1 EOY 6 RESULTS FOR STREAM SEGMENT 5

For EOY 6, it is estimated that the mine site OM study area (equivalent to Stream Segment 5) would provide 28.9 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 50.4 percent to 70.2 percent, while those for bull trout would range from 0.2 percent to 21.0 percent. The distance weighted average occupancy probability would be 63.8 percent for westslope cutthroat trout and 8.4 percent for bull trout for the entire mine site OM study area (Stream Segment 5).

**Table 6** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values across the entire study area. **Figures 3** and **4** display the occupancy probabilities for each mine site OM reach within the entire study area for westslope cutthroat trout and bull trout, respectively.

**Table 6. Descriptive Statistics for EOY 6 Occupancy Probabilities for Stream Segment 5**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 9 | 6,603 | 22.84% | 57.72% |
| Medium Low | 11 | 10,171 | 35.18% | 62.71% |
| Medium High | 13 | 6,188 | 21.40% | 66.79% |
| High | 8 | 5,950 | 20.58% | 69.29% |
| Total | 41 | 28,913 | 100% | 63.80% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 10 | 7,799 | 26.98% | 2.38% |
| Medium Low | 11 | 8,090 | 27.98% | 4.94% |
| Medium High | 11 | 6,956 | 24.06% | 10.58% |
| High | 9 | 6,067 | 20.98% | 18.35% |
| Total | 41 | 28,913 | 100% | 8.42% |

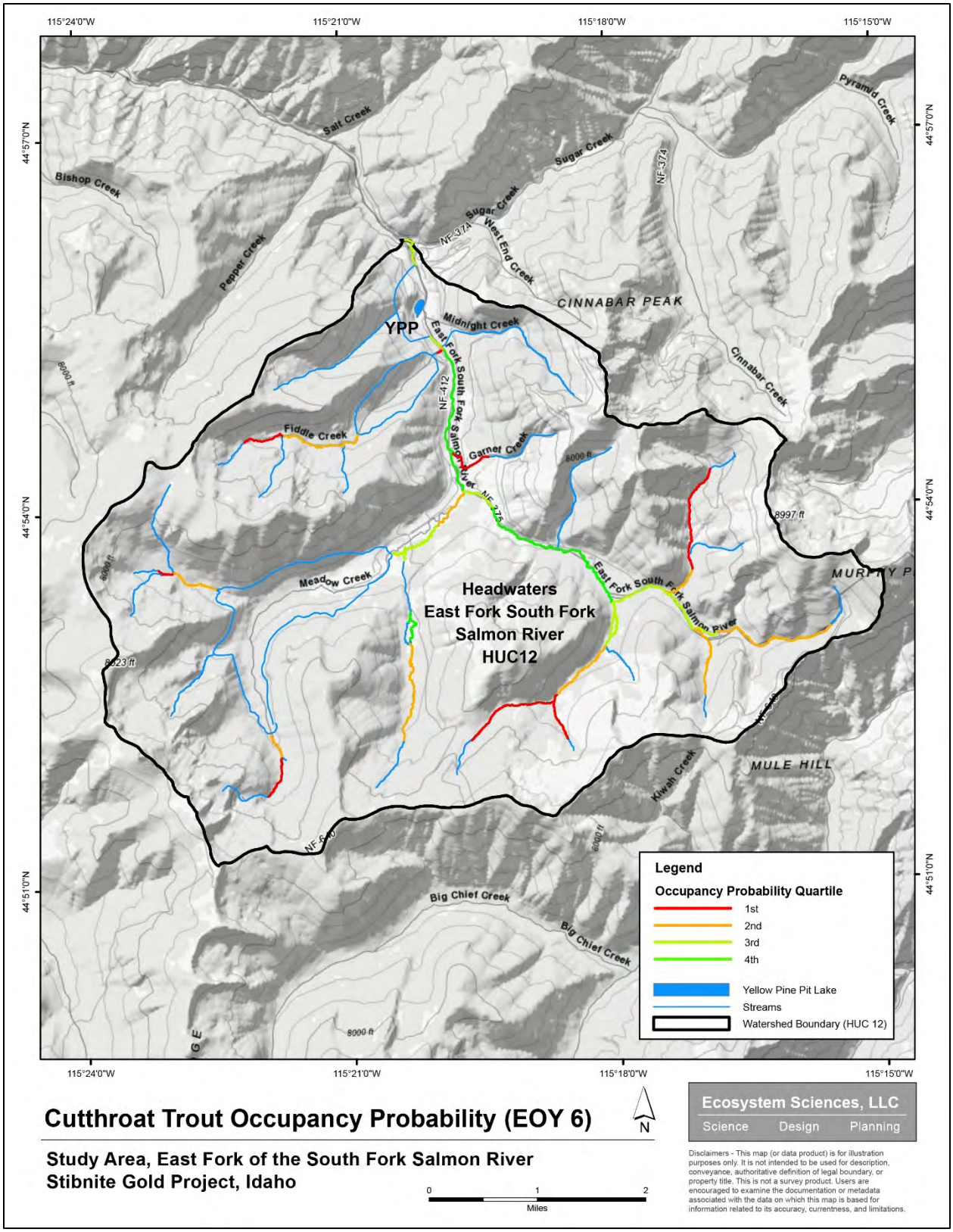



**Figure 3. EOY 6 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 5**

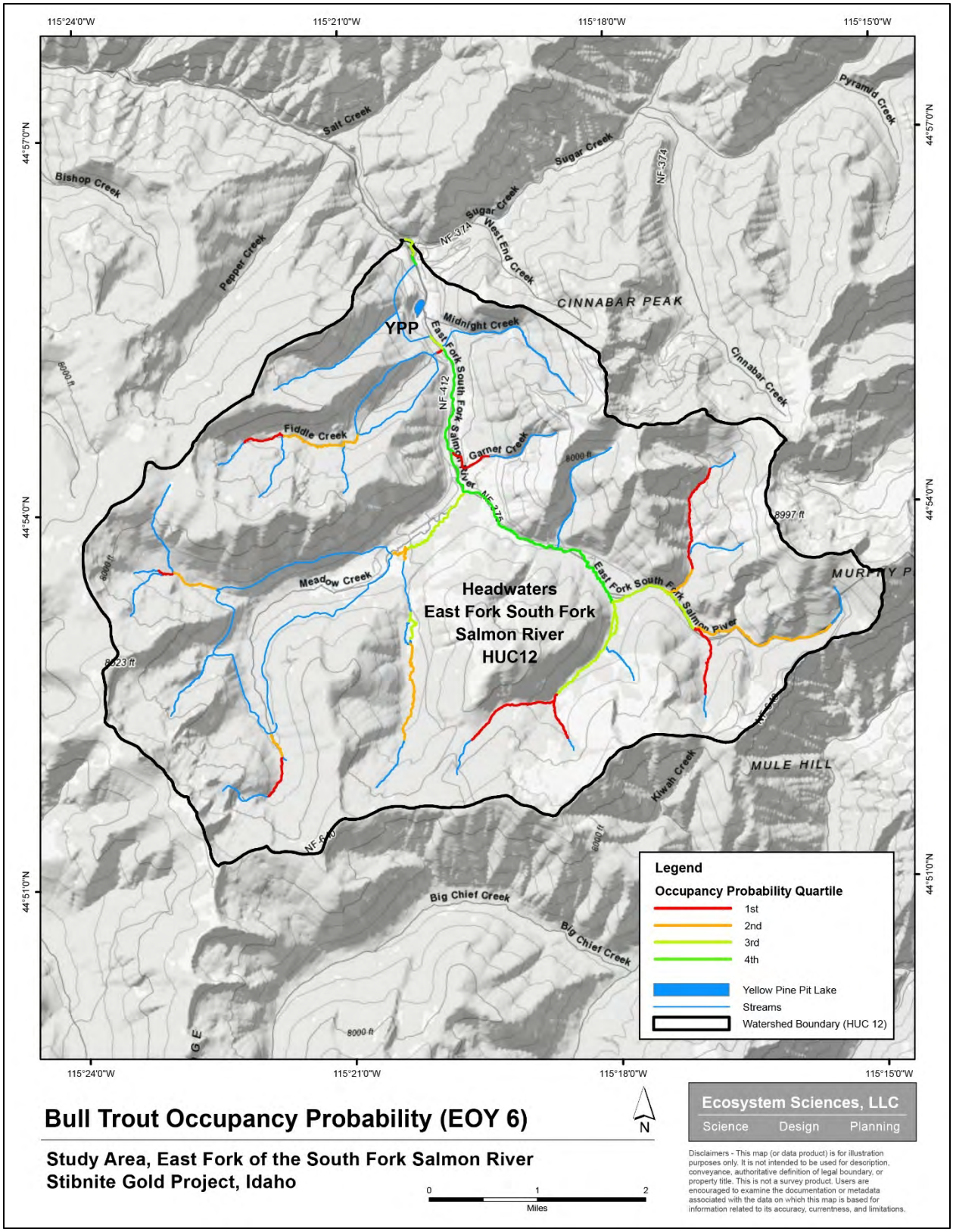



**Figure 4. EOY 6 Occupancy Probabilities for Bull Trout Stream Segment 5**

For bull trout, an important note is that the areas above the proposed TSFs and DRSFs in Meadow and Fiddle Creeks (**Figure 3**) that meet the model definition of available habitat may not have bull trout (but would be included in EOY 6 available habitat). Consequently, the restored habitat on top of these storage facilities (in subsequent years) may not have a mechanism for recolonization. For a more in-depth discussion of this factor, please refer to section 5.1. This applies to all of the reach descriptions below that involve TSFs or DRSFs.

### 4.1.1 EOY 6 Results Stream Segment 1

For EOY 6, it is estimated that Stream Segment 1 would provide 6.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 50.4 percent to 69.7 percent, while those for bull trout would range from 0.2 percent to 19.2 percent. The distance weighted average occupancy probability for Stream Segment 1 during EOY 6 would be 64.2 percent for westslope cutthroat trout and 10.6 percent for bull trout. **Table 7** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 1. **Figures 5** and **6** display the occupancy probabilities for each mine site OM reach within Stream Segment 1 for westslope cutthroat trout and bull trout, respectively.

**Table 7. Descriptive Statistics for EOY 6 Occupancy Probabilities for Stream Segment 1**

| **Westslope Cutthroat Trout** | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 1,546 | 25.15% | 56.88% |
| Medium Low | 3 | 1,464 | 23.81% | 62.10% |
| Medium High | 3 | 718 | 11.67% | 67.23% |
| High | 2 | 2,421 | 39.37% | 69.30% |
| Total | 12 | 6,150 | 100% | 64.22% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 1,546 | 25.15% | 1.71% |
| Medium Low | 2 | 1,425 | 23.18% | 5.93% |
| Medium High | 3 | 601 | 9.78% | 13.40% |
| High | 3 | 2,577 | 41.90% | 17.94% |
| Total | 12 | 6,150 | 100% | 10.63% |

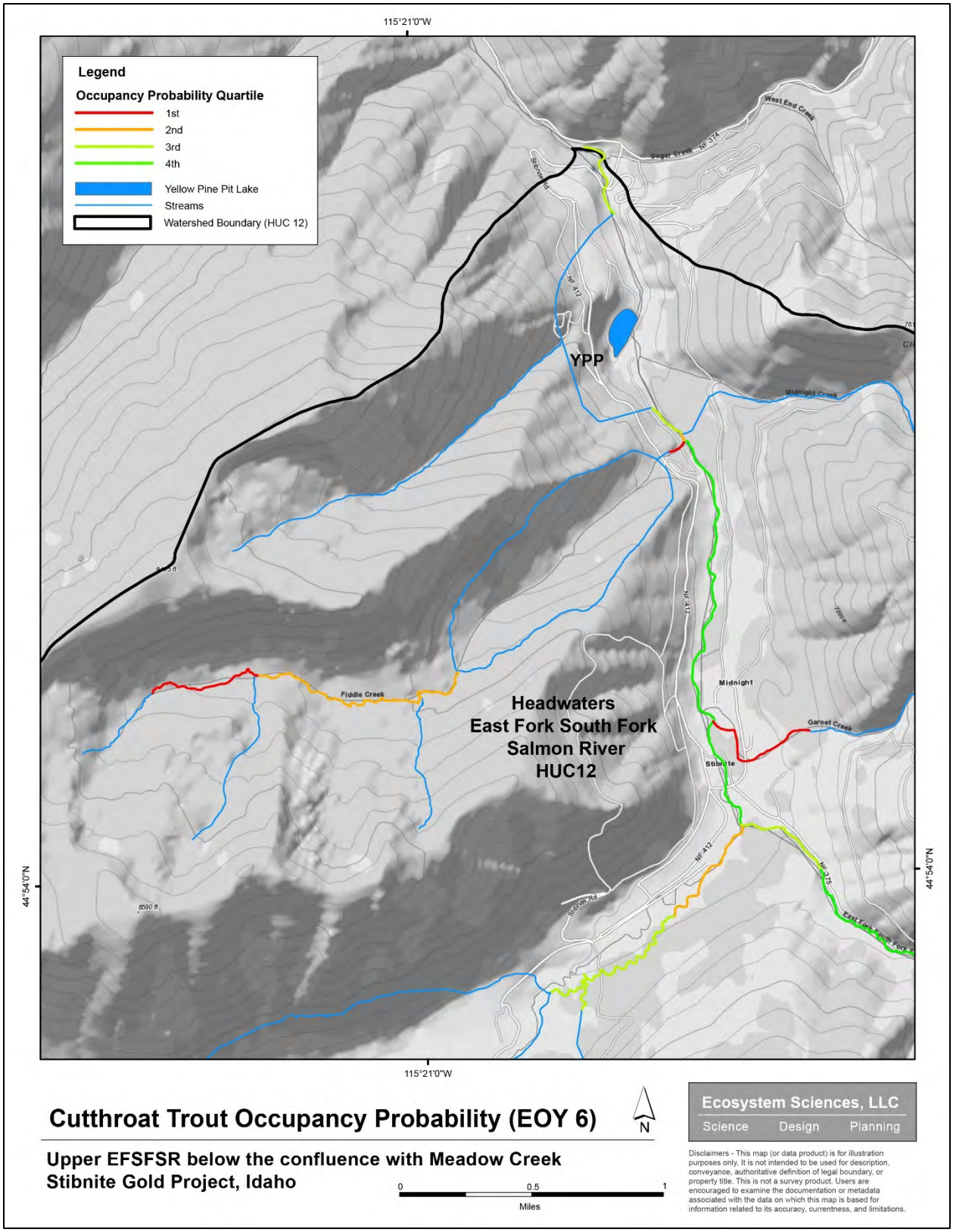



**Figure 5. EOY 6 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 1**

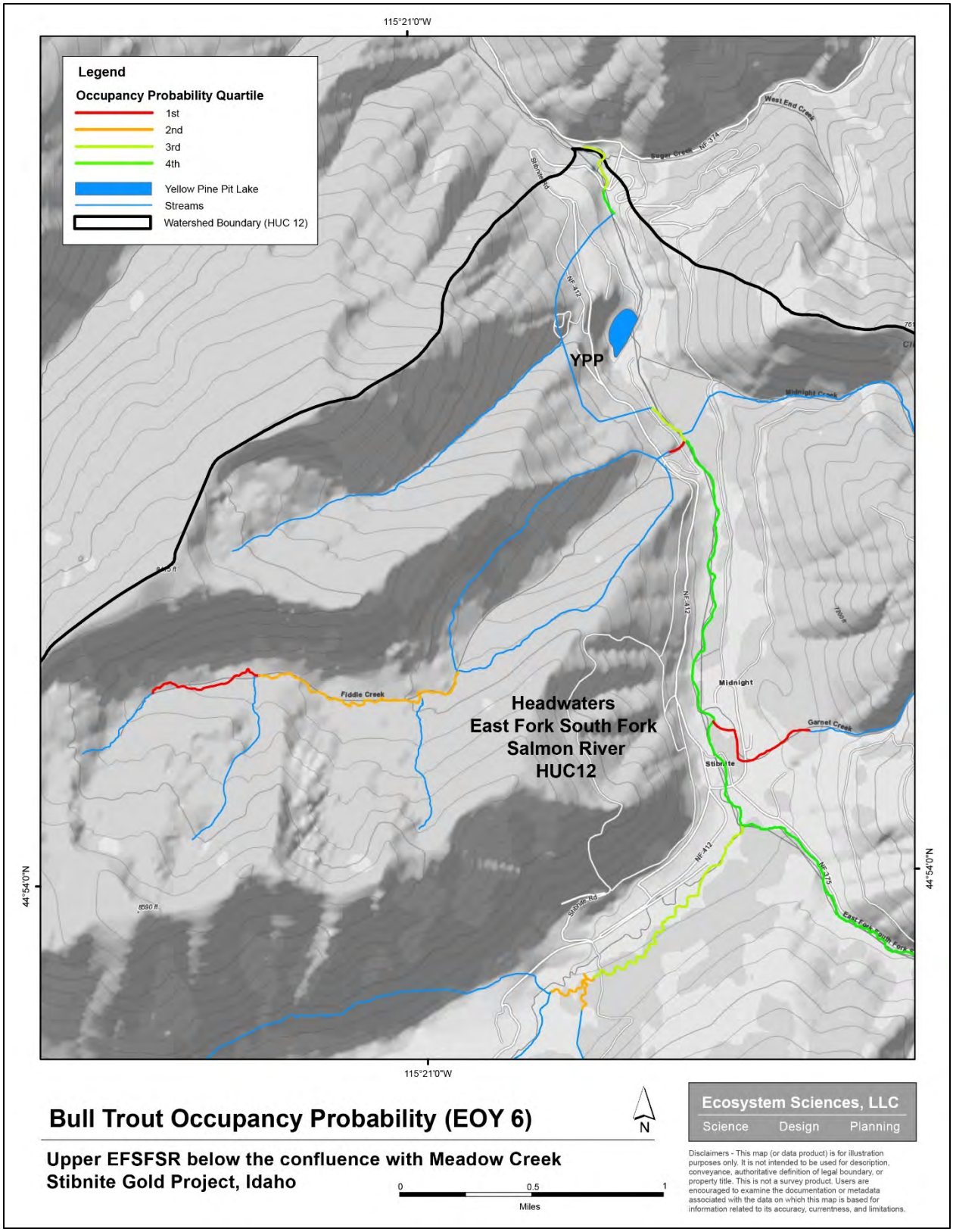



**Figure 6. EOY 6 Occupancy Probabilities for Bull Trout for Stream Segment 1**

### 4.1.2 EOY 6 Results for Stream Segment 2

For EOY 6, it is estimated that Stream Segment 2 would provide 6.6 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.4 percent to 68.1 percent, while those for bull trout would range from 1.2 percent to 9.5 percent. The distance weighted average occupancy probability for Stream Segment 2 during EOY 6 would be 63.8 percent for westslope cutthroat trout and 5.7 percent for bull trout. **Table 7** details the number of reaches, total length of reaches, percent of total study area, and distance weighted average occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 2. **Figures 7** and **8** display the occupancy probabilities for each mine site OM reach within Stream Segment 2 for westslope cutthroat trout and bull trout, respectively.

**Table 8. Descriptive Statistics for EOY 6 Occupancy Probabilities for Stream Segment 2**

| **Westslope Cutthroat Trout** | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 2 | 986 | 14.91% | 57.46% |
| Medium Low | 4 | 3,648 | 55.16% | 63.84% |
| Medium High | 5 | 1,365 | 20.64% | 66.19% |
| High | 1 | 615 | 9.30% | 68.08% |
| Total | 12 | 6,613 | 100% | 63.77% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 2 | 986 | 14.91% | 1.74% |
| Medium Low | 6 | 3,524 | 53.29% | 4.92% |
| Medium High | 4 | 2,103 | 31.80% | 8.73% |
| High | 0 | 0 | 0% | NA |
| Total | 12 | 6,613 | 100% | 5.66% |

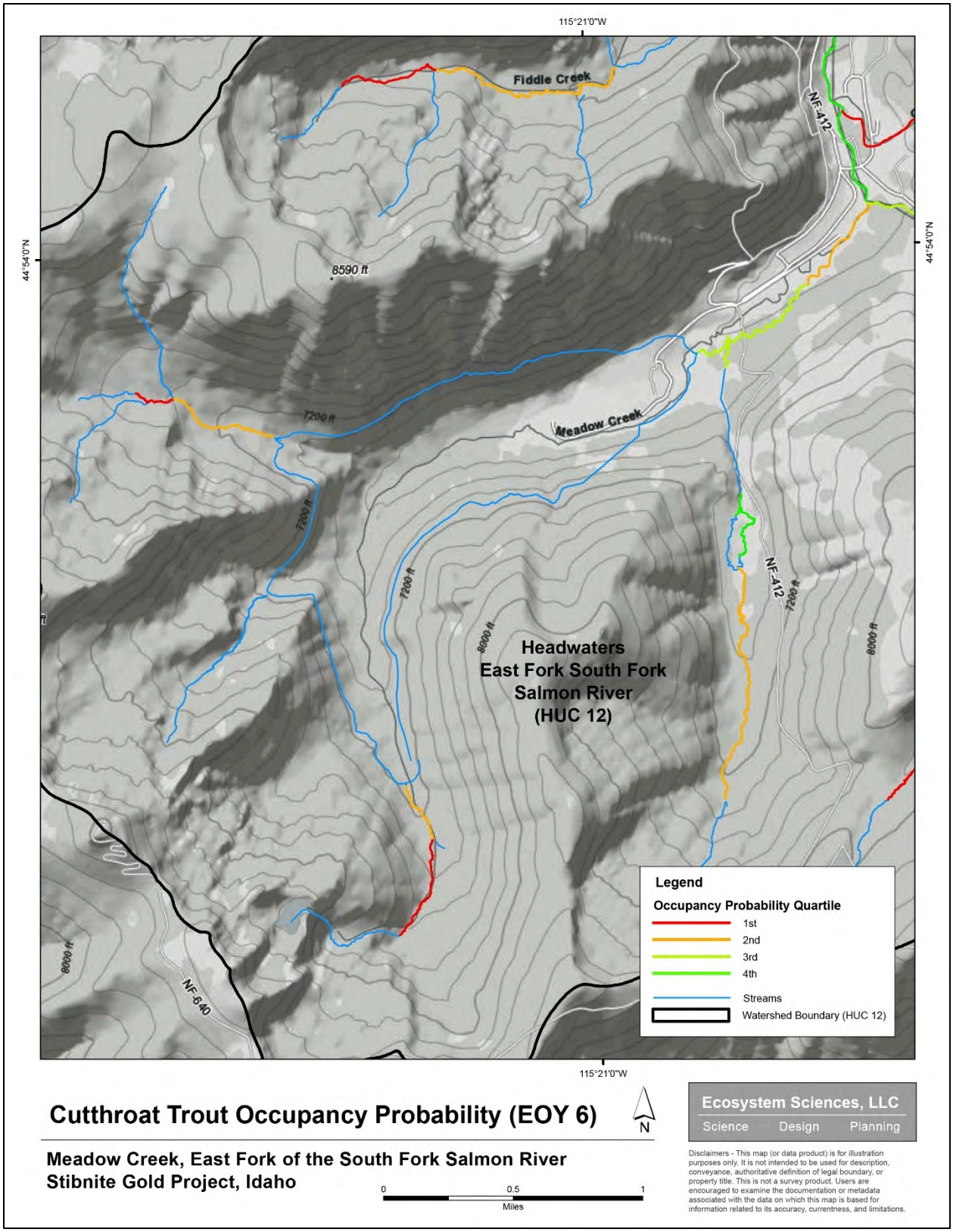



**Figure 7. EOY 6 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 2**

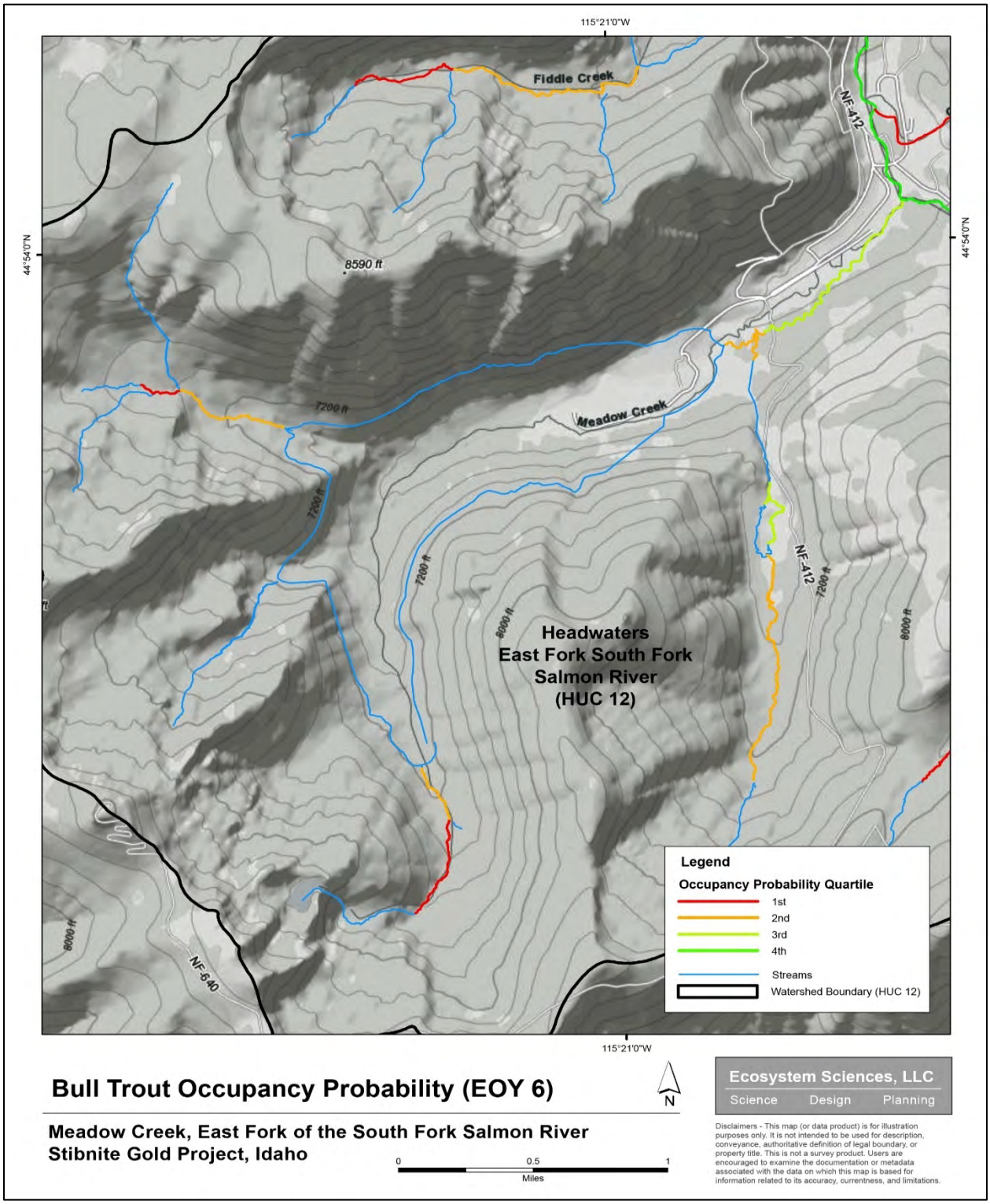



**Figure 8. EOY 6 Occupancy Probabilities for Bull Trout for Stream Segment 2**

### 4.1.3 EOY 6 Results for Stream Segment 3

For EOY 6, it is estimated that Stream Segment 3 would provide 16.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.7 percent to 70.2 percent, while those for bull trout would range from 2.3 percent to 21.0 percent. The distance weighted average occupancy probability for Stream Segment 3 during EOY 6 would be 63.7 percent for westslope cutthroat trout and 8.7 percent for bull trout. **Table 9** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 3. **Figures 9** and **10** display the occupancy probabilities for each mine site OM reach within Stream Segment 3 for westslope cutthroat trout and bull trout, respectively.

**Table 9. Descriptive Statistics for EOY 6 Occupancy Probabilities for Stream Segment 3**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 3 | 4,071 | 25.21% | 58.10% |
| Medium Low | 4 | 5,059 | 31.33% | 62.07% |
| Medium High | 5 | 4,106 | 25.42% | 66.91% |
| High | 5 | 2,914 | 18.04% | 69.54% |
| Total | 17 | 16,150 | 100% | 63.65% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 5,267 | 32.61% | 2.70% |
| Medium Low | 3 | 3,141 | 19.45% | 4.51% |
| Medium High | 4 | 4,252 | 26.33% | 11.09% |
| High | 6 | 3,490 | 21.61% | 18.65% |
| Total | 17 | 16,150 | 100% | 8.71% |

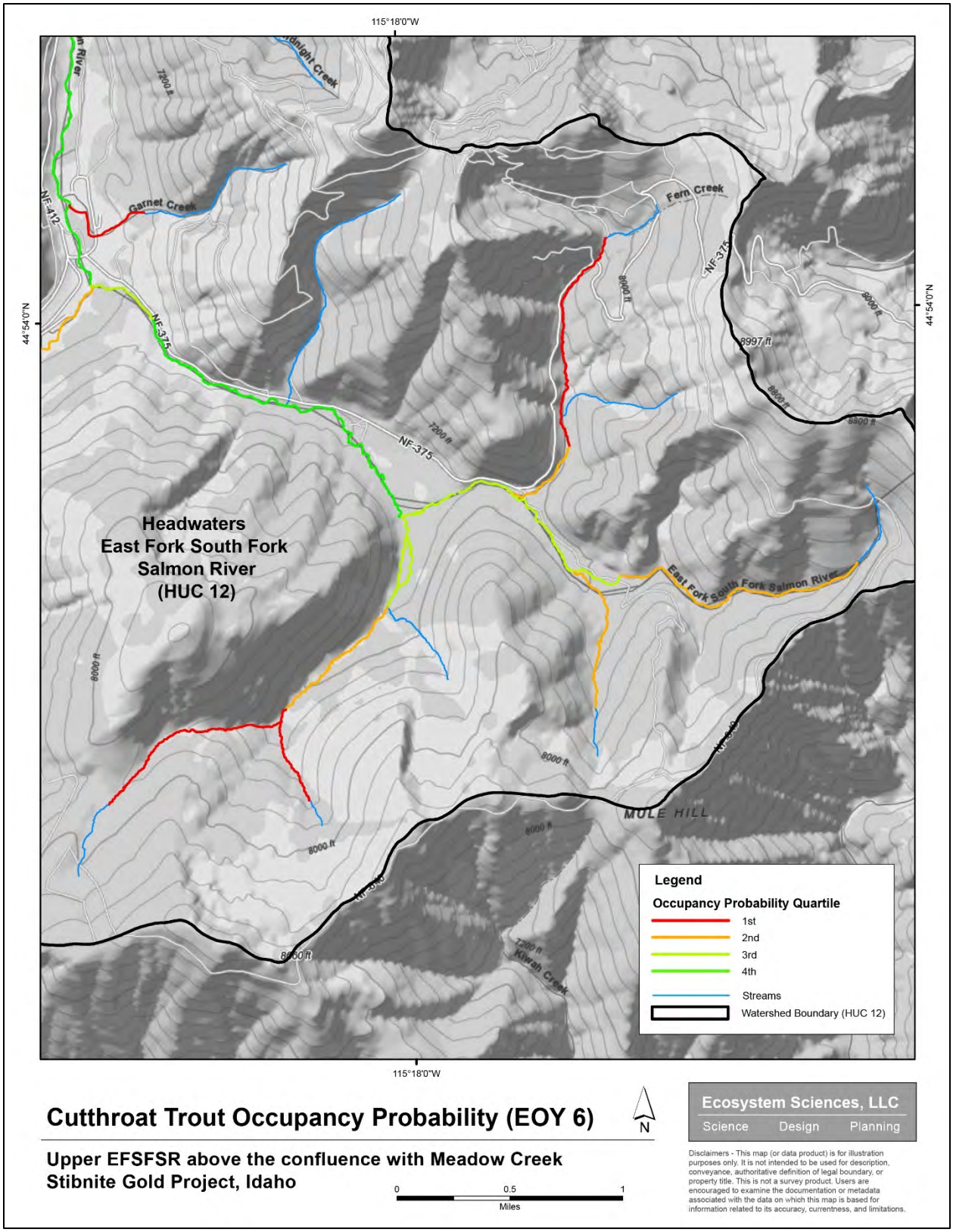



**Figure 9. EOY 6 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 3**

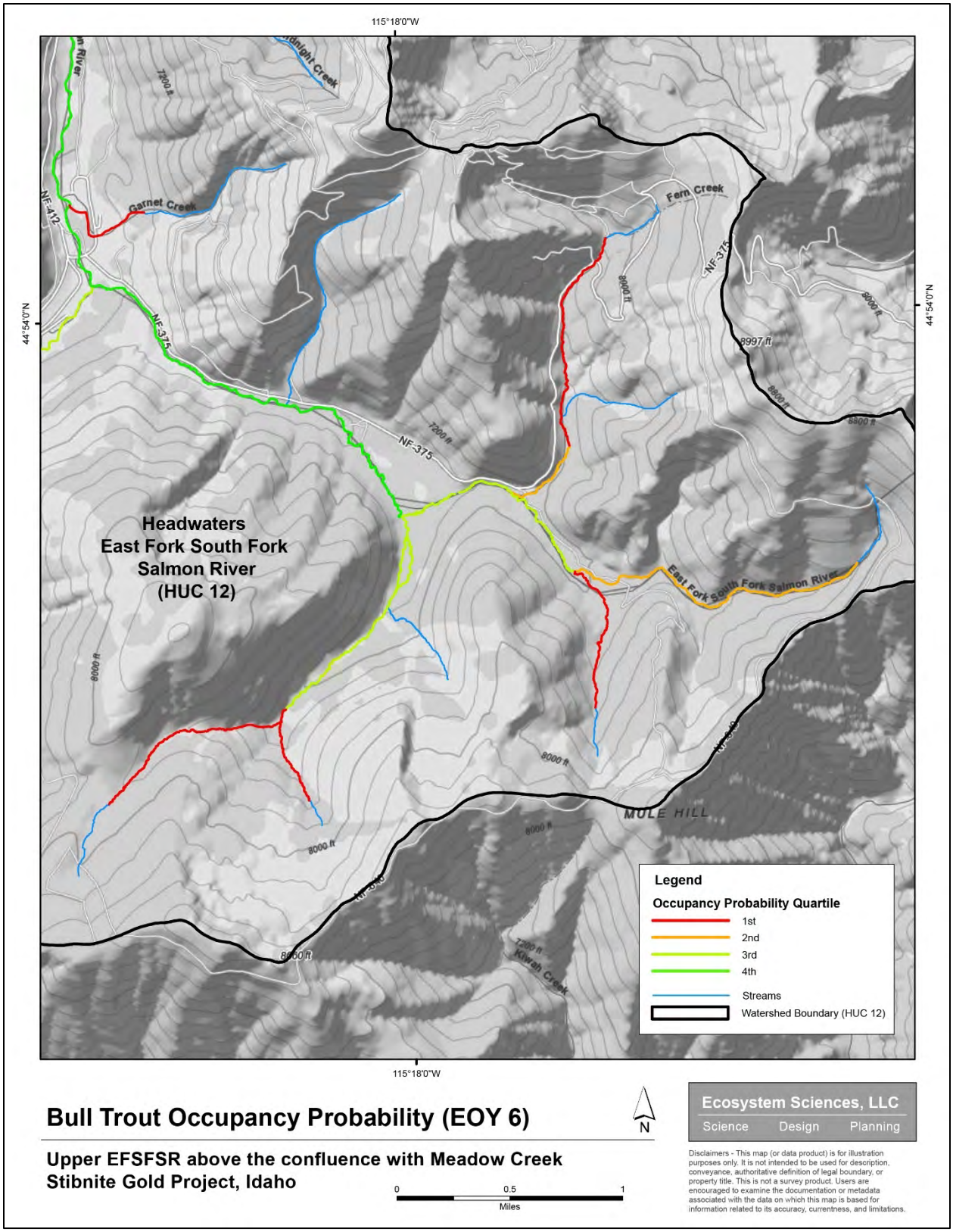



**Figure 10. EOY 6 Occupancy Probabilities for Bull Trout for Stream Segment 3**

## 4.2 EOY 12 RESULTS FOR STREAM SEGMENT 5

For EOY 12, it is estimated that the mine site OM study area would provide 33.1 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.0 percent to 70.2 percent, while those for bull trout would range from 0.7 percent to 20.5 percent. The distance weighted average occupancy probability would be 63.8 percent for westslope cutthroat trout and 8.4 percent for bull trout for the entire mine site OM study area (Stream Segment 5).

**Table 10** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values across the entire study area. **Figures 11** and **12** display the occupancy probabilities for each mine site OM reach within the entire study area for westslope cutthroat trout and bull trout, respectively.

**Table 10. Descriptive Statistics for EOY 12 Occupancy Probabilities for Stream Segment 5**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 11 | 6,956 | 21.04% | 57.94% |
| Medium Low | 14 | 6,272 | 32.89% | 62.72% |
| Medium High | 17 | 6,689 | 28.08% | 66.89% |
| High | 8 | 6,929 | 17.99% | 69.29% |
| Total | 50 | 33,068 | 100% | 64.07% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 13 | 8,512 | 25.74% | 2.35% |
| Medium Low | 13 | 10,594 | 32.04% | 5.13% |
| Medium High | 15 | 7,671 | 23.20% | 11.01% |
| High | 9 | 6,291 | 19.02% | 17.78% |
| Total | 50 | 33,068 | 100% | 8.19% |

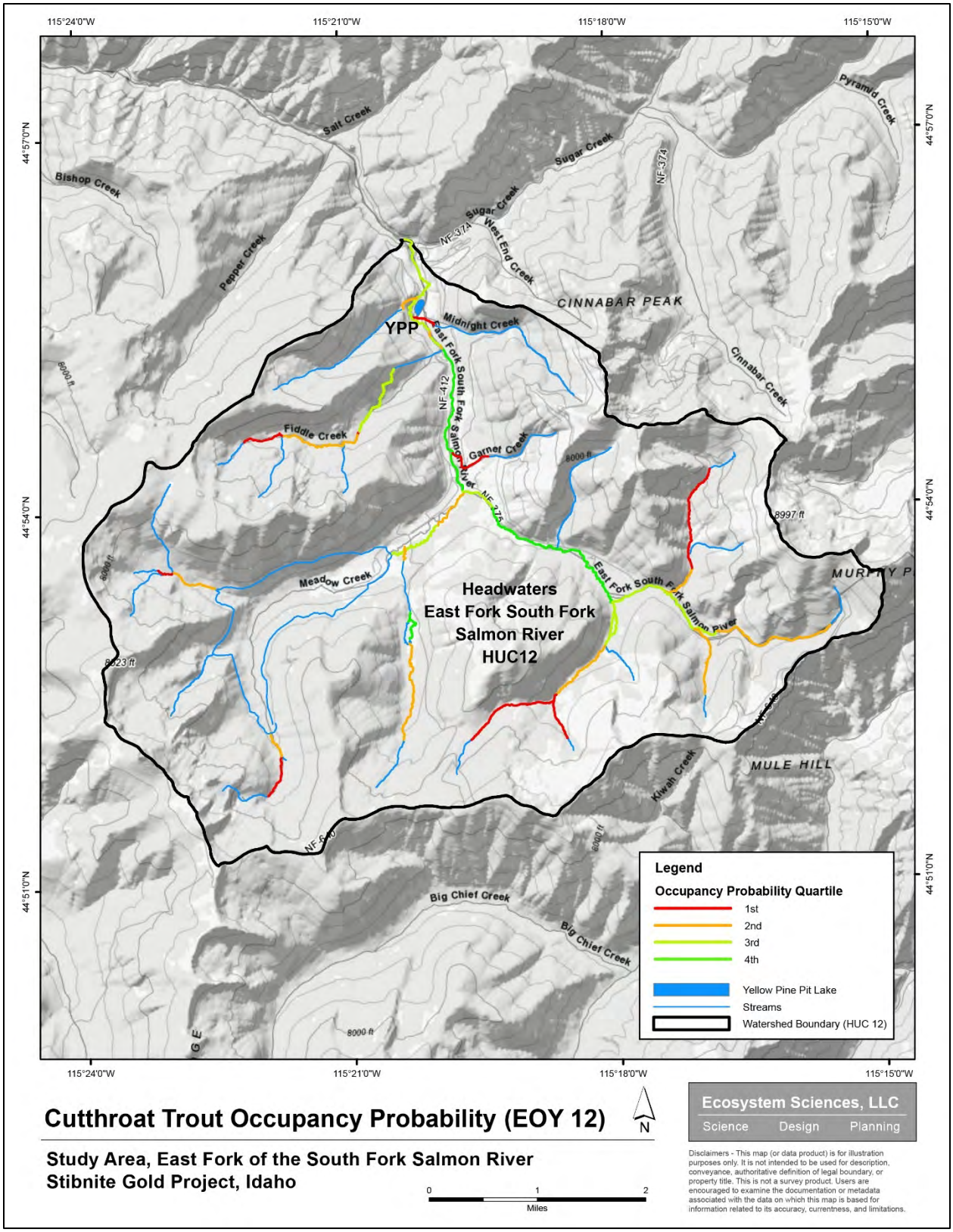



**Figure 11. EOY 12 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 5**

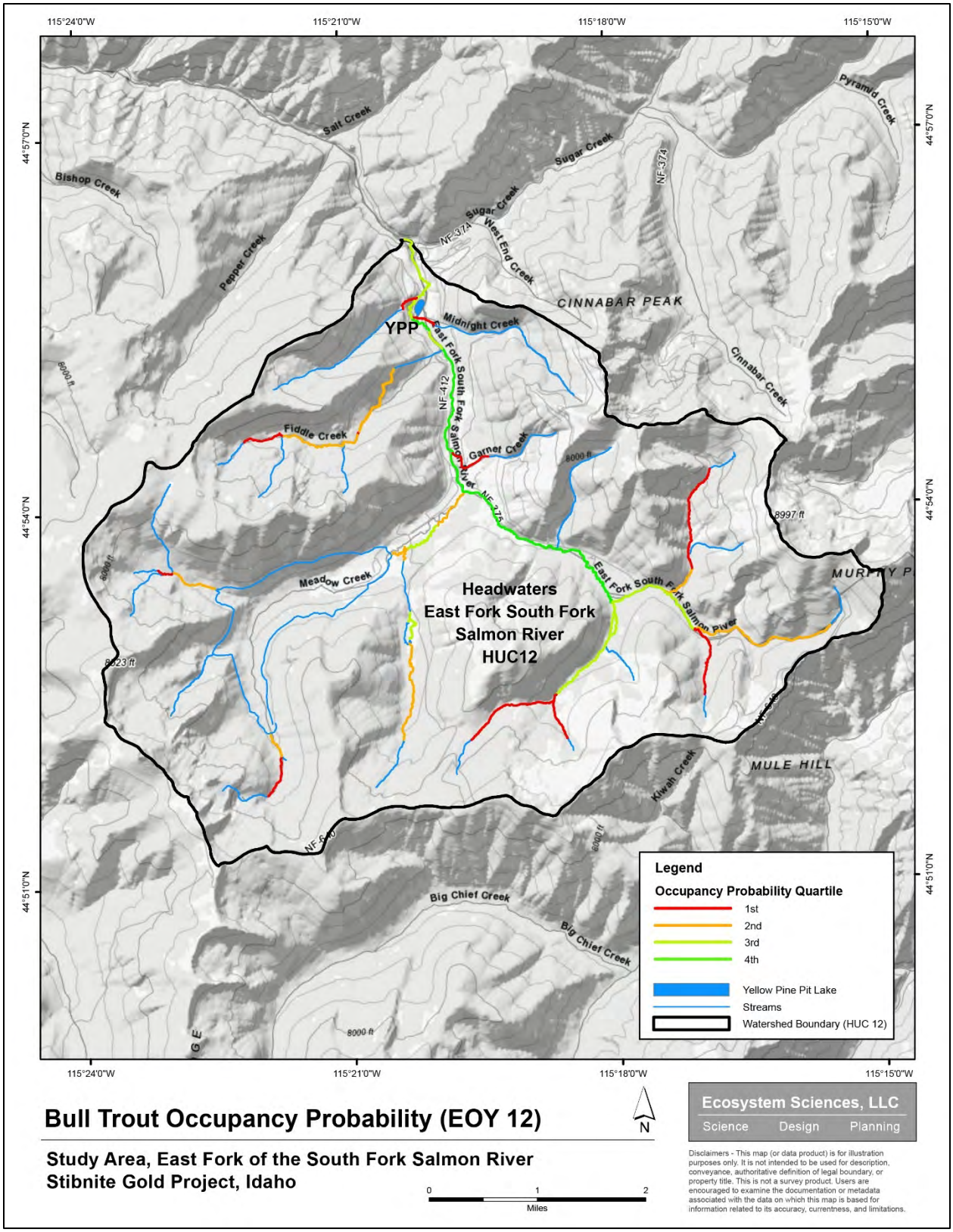



**Figure 12. EOY 12 Occupancy Probabilities for Bull Trout for Stream Segment 5**

### 4.2.1 EOY 12 Results for Stream Segment 1

For EOY 12, it is estimated that Stream Segment 1 would provide 10.3 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.0 percent to 69.7 percent, while those for bull trout would range from 0.7 percent to 18.9 percent. The distance weighted average occupancy probability for Stream Segment 1 during EOY 12 would be 65.0 percent for westslope cutthroat trout and 9.5 percent for bull trout. **Table 11** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 1. **Figures 13** and **14** display the occupancy probabilities for each mine site OM reach within Stream Segment 1 for westslope cutthroat trout and bull trout, respectively.

**Table 11. Descriptive Statistics for EOY 12 Occupancy Probabilities for Stream Segment 1**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 6 | 1,900 | 18.43% | 57.73% |
| Medium Low | 5 | 1,918 | 18.61% | 62.48% |
| Medium High | 8 | 4,065 | 39.45% | 67.06% |
| High | 2 | 2,421 | 23.50% | 69.33% |
| Total | 21 | 10,304 | 100% | 65.02% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 7 | 2,259 | 21.92% | 1.81% |
| Medium Low | 3 | 3,211 | 31.16% | 6.09% |
| Medium High | 8 | 2,034 | 19.74% | 12.72% |
| High | 3 | 2,800 | 27.18% | 17.35% |
| Total | 21 | 10,304 | 100% | 9.52% |

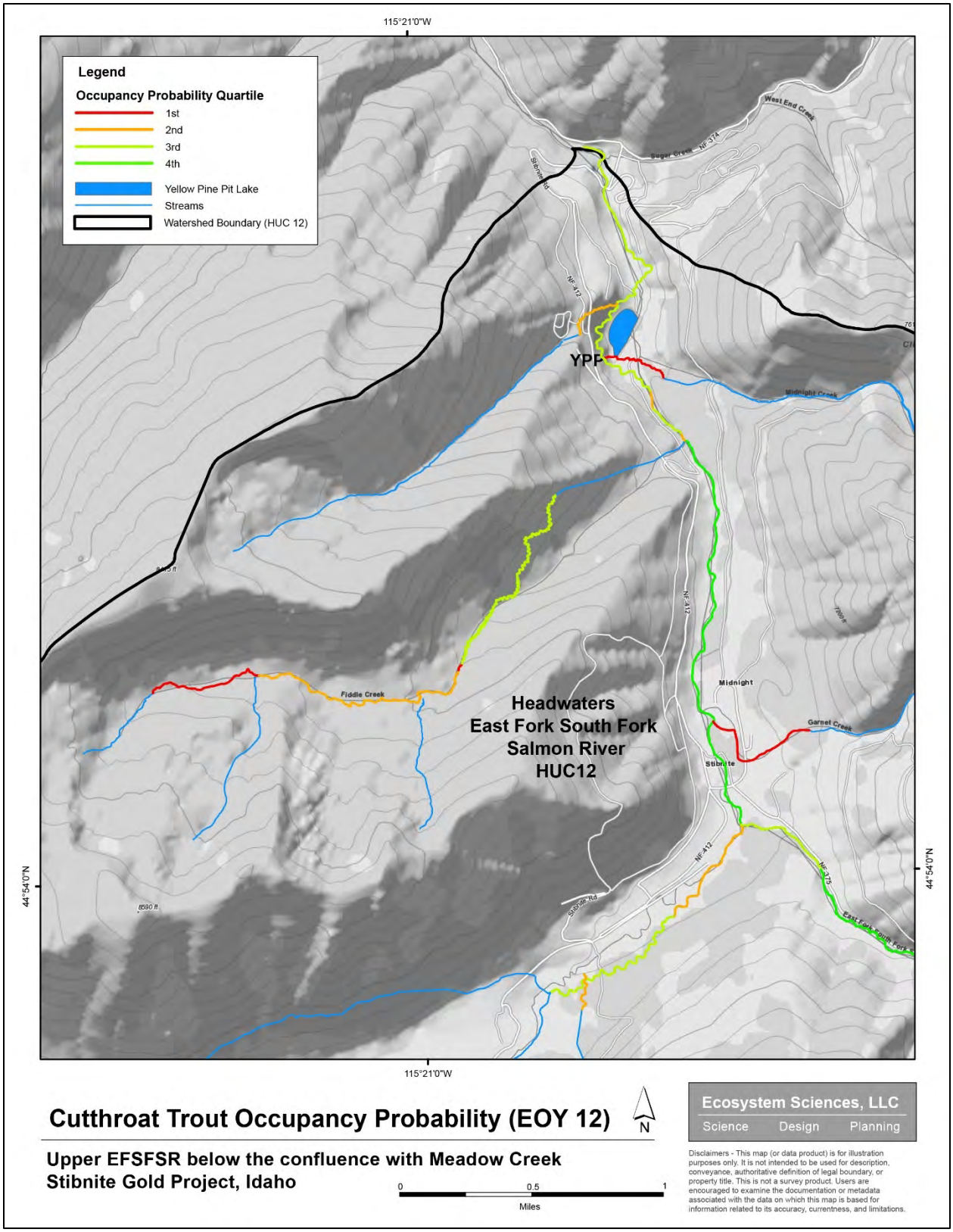



**Figure 13. EOY 12 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 1**

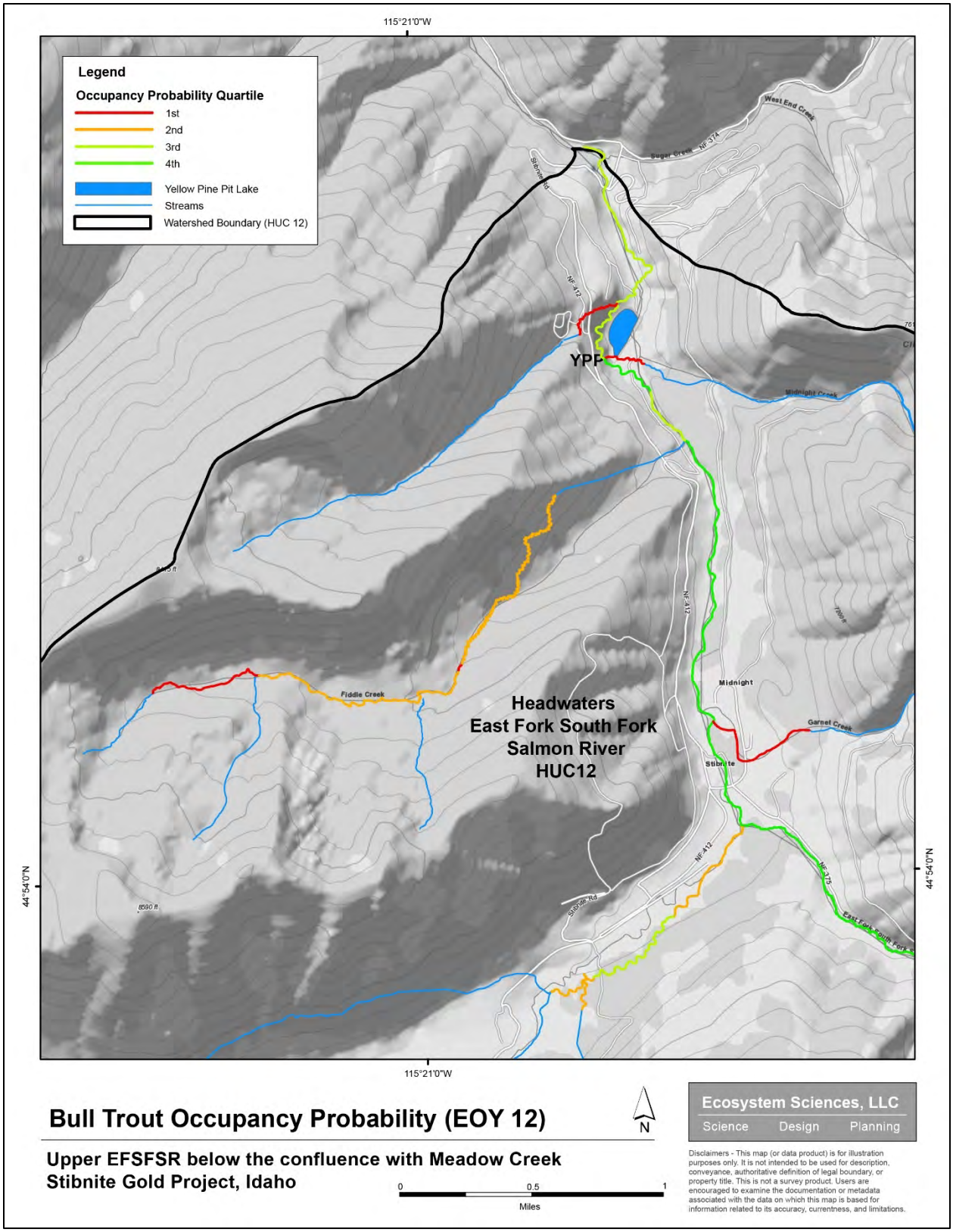



**Figure 14. EOY 12 Occupancy Probabilities for Bull Trout for Stream Segment 1**

### 4.2.2 EOY 12 Results for Stream Segment 2

For EOY 12, it is estimated that Stream Segment 2 would provide 6.6 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.7 percent to 68.0 percent, while those for bull trout would range from 1.3 percent to 8.6 percent. The distance weighted average occupancy probability for Stream Segment 2 during EOY 12 would be 63.6 percent for westslope cutthroat trout and 5.2 percent for bull trout. **Table 12** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 2. **Figures 15** and **16** display the occupancy probabilities for each mine site OM reach Stream Segment 2 for westslope cutthroat trout and bull trout, respectively.

**Table 12. Descriptive Statistics for EOY 12 Occupancy Probabilities for Stream Segment 2**

| **Westslope Cutthroat Trout** | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 2 | 986 | 14.91% | 57.62% |
| Medium Low | 5 | 3,899 | 58.97% | 63.68% |
| Medium High | 4 | 1,113 | 16.83% | 66.22% |
| High | 1 | 615 | 9.30% | 68.04% |
| Total | 12 | 6,613 | 100% | 63.61% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 2 | 986 | 14.91% | 1.82% |
| Medium Low | 7 | 4,242 | 64.15% | 4.87% |
| Medium High | 3 | 1,385 | 20.94% | 8.46% |
| High | 0 | 0 | 0% | NA |
| Total | 12 | 6,613 | 100% | 5.17% |

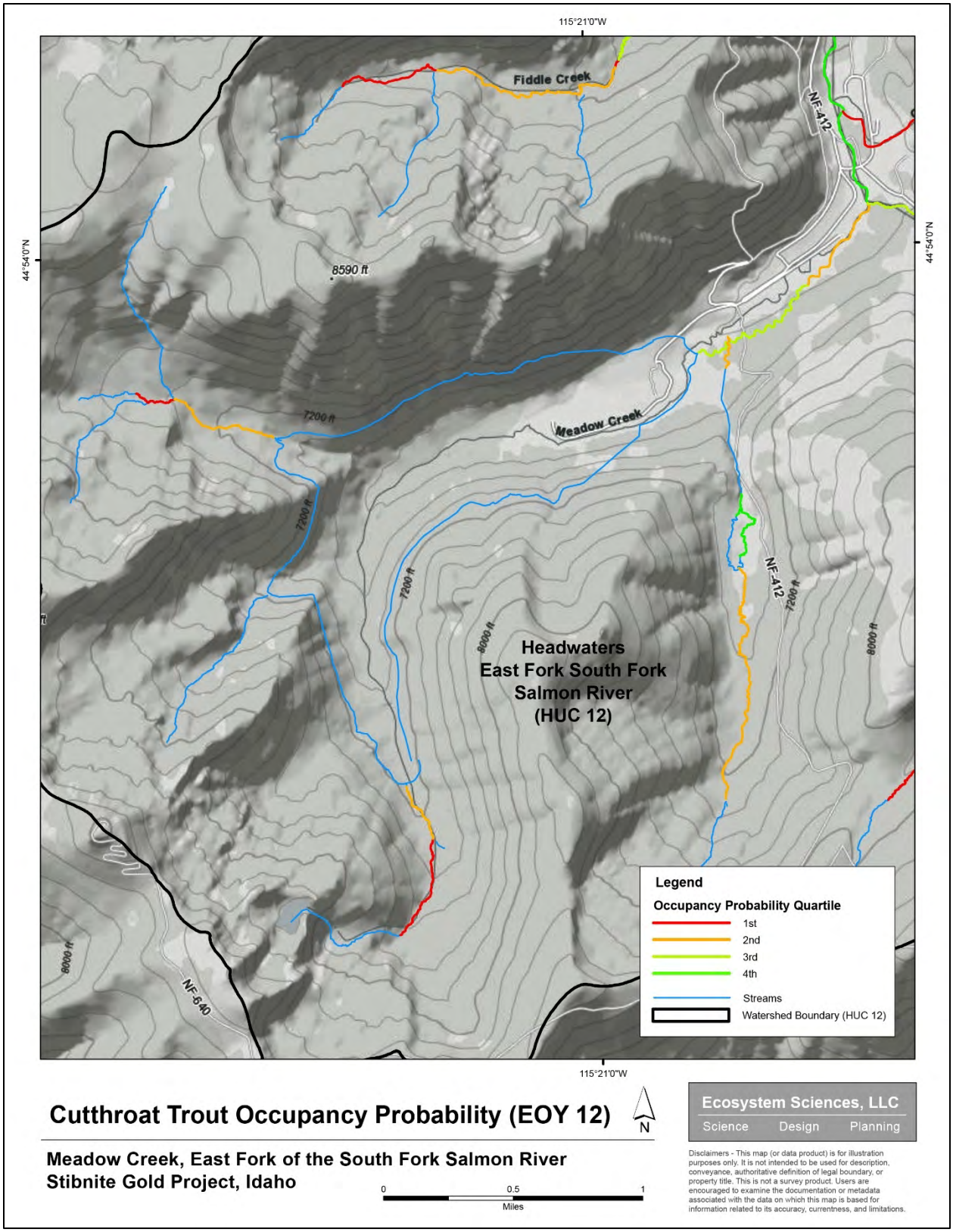



**Figure 15. EOY 12 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 2**

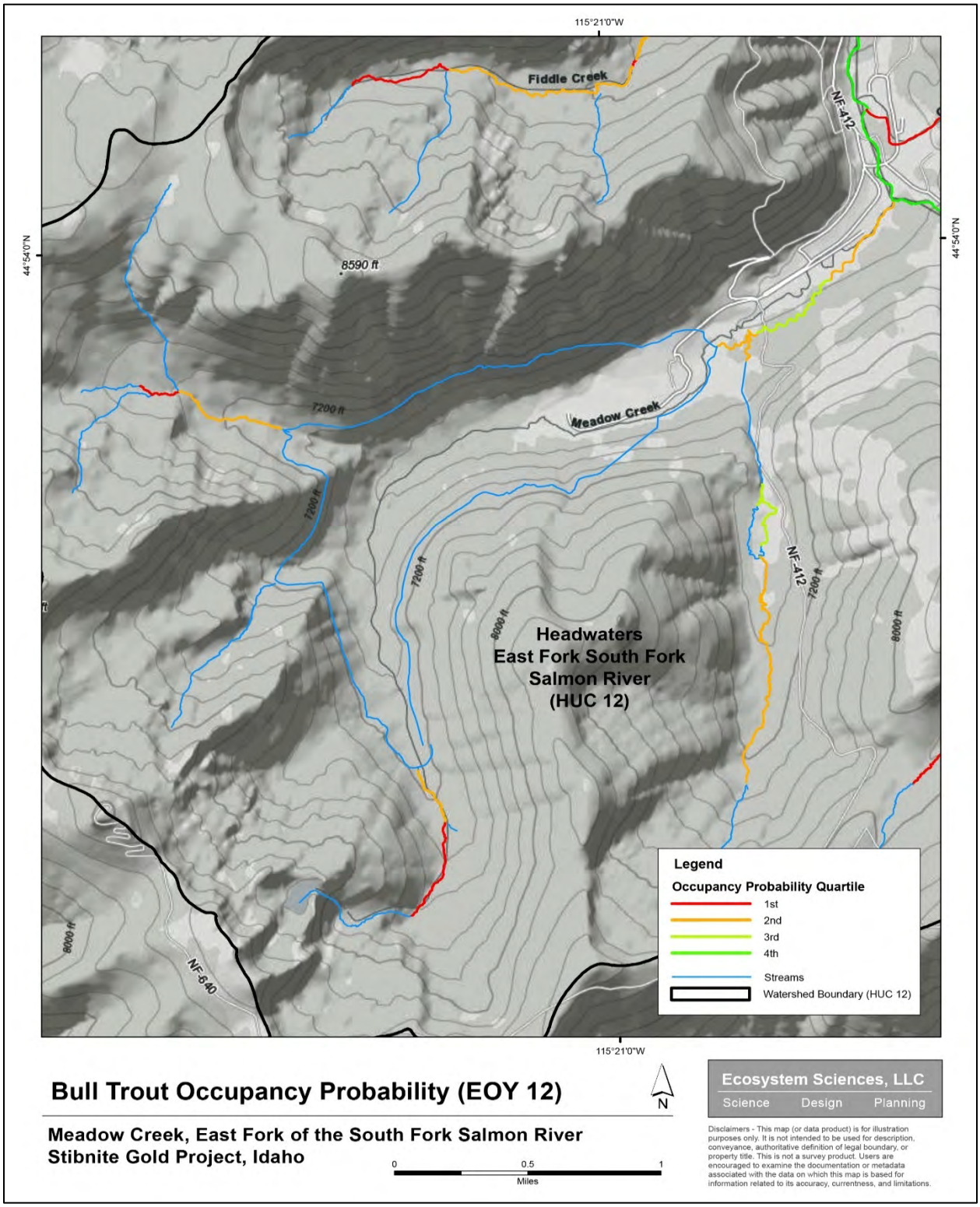



**Figure 16. EOY 12 Occupancy Probabilities for Bull Trout for Stream Segment 2**

### 4.2.3 EOY 12 Results for Stream Segment 3

For EOY 12, it is estimated that Stream Segment 3 would provide 16.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.8 percent to 70.2 percent, while those for bull trout would range from 2.3 percent to 20.5 percent. The distance weighted average occupancy probability Stream Segment 3 during EOY 12 would be 63.7 percent for westslope cutthroat trout and 8.6 percent for bull trout. **Table 13** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 3. **Figures 17** and **18** display the occupancy probabilities for each mine site OM reach within Stream Segment 3 for westslope cutthroat trout and bull trout, respectively.

**Table 13. Descriptive Statistics for EOY 12 Occupancy Probabilities for Stream Segment 3**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 3 | 4,071 | 25.21% | 58.11% |
| Medium Low | 4 | 5,059 | 31.33% | 62.07% |
| Medium High | 5 | 4,106 | 25.42% | 66.91% |
| High | 5 | 2,914 | 18.04% | 69.53% |
| Total | 17 | 16,150 | 100% | 63.65% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 5,267 | 36.15% | 2.68% |
| Medium Low | 3 | 3,141 | 21.56% | 4.50% |
| Medium High | 4 | 4,252 | 29.18% | 11.02% |
| High | 6 | 3,490 | 23.96% | 18.12% |
| Total | 17 | 16,150 | 100% | 8.57% |

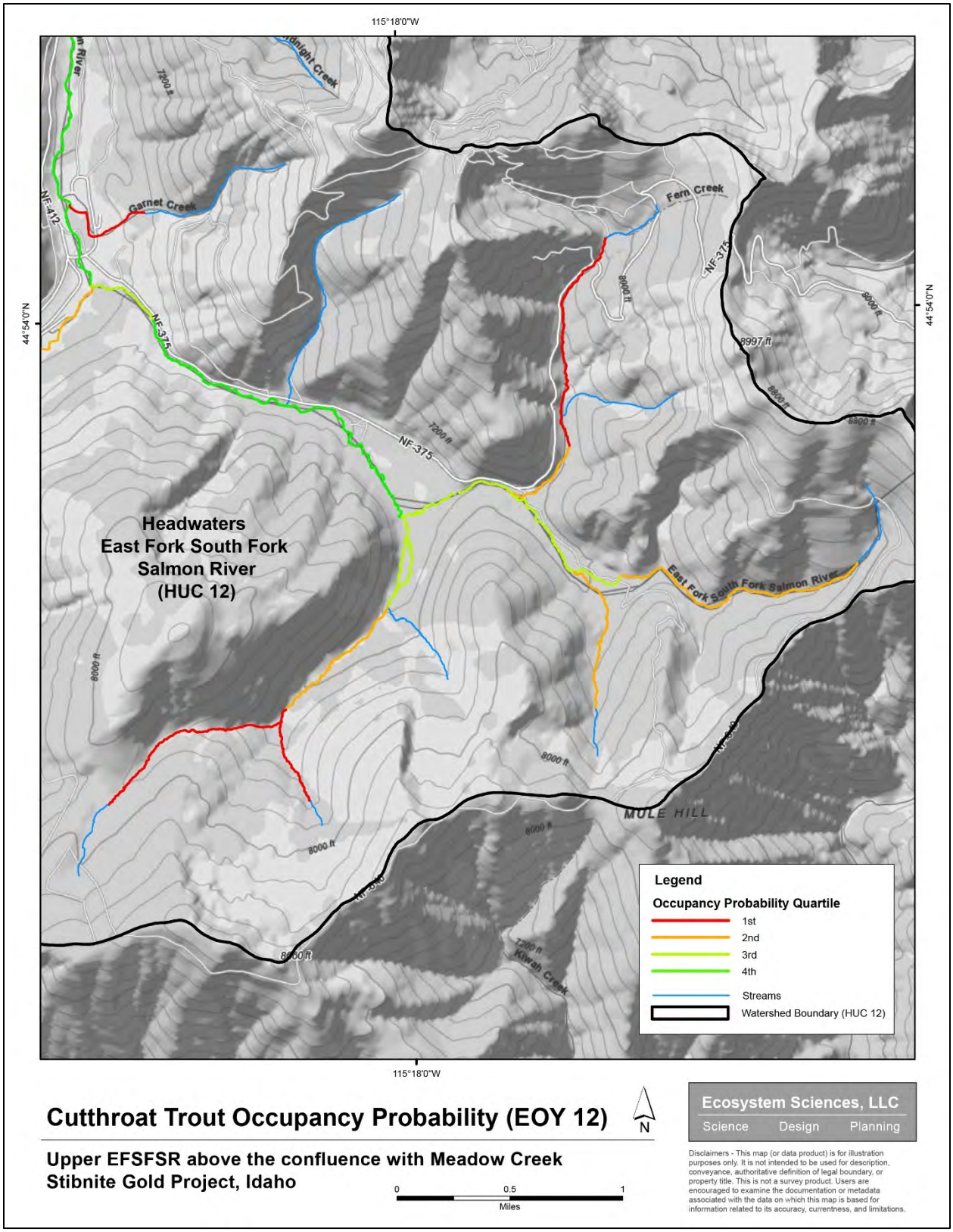



**Figure 17. EOY 12 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 3**

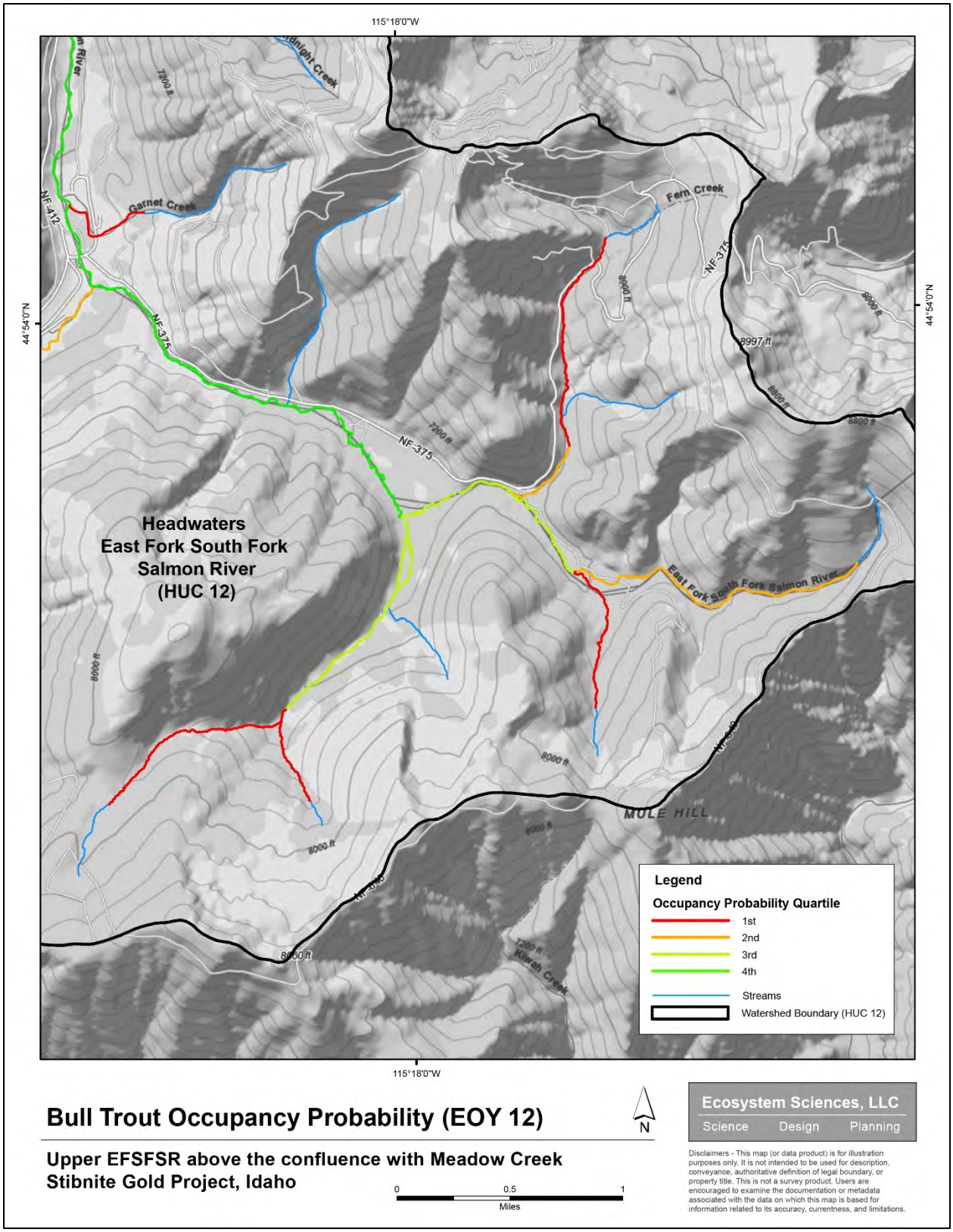



**Figure 18. EOY 12 Occupancy Probabilities for Bull Trout for Stream Segment 3**

## 4.3 EOY 18 RESULTS FOR STREAM SEGMENT 5

For EOY 18, it is estimated that the mine site OM study area would provide 41.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 35.6 percent to 70.2 percent, while those for bull trout would range from 0.9 percent to 21.1 percent. The distance weighted average occupancy probability would be 62.4 percent for westslope cutthroat trout and 6.4 percent for bull trout for the entire mine site OM study area.

**Table 14** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values across the entire study area. **Figures 19** and **20** display the occupancy probabilities for each mine site OM reach within the entire study area for westslope cutthroat trout and bull trout, respectively.

**Table 14. Descriptive Statistics for EOY 18 Occupancy Probabilities for Stream Segment 5**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 19 | 9,966 | 24.20% | 55.55% |
| Medium Low | 27 | 16,466 | 39.98% | 62.37% |
| Medium High | 12 | 11,844 | 28.75% | 66.45% |
| High | 5 | 2,914 | 7.08% | 69.54% |
| Total | 63 | 41,190 | 100% | 62.40% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 25 | 14,997 | 36.41% | 2.35% |
| Medium Low | 18 | 13,134 | 31.89% | 5.06% |
| Medium High | 14 | 9,569 | 23.23% | 10.24% |
| High | 6 | 3,490 | 8.47% | 18.63% |
| Total | 63 | 41,190 | 100% | 6.43% |

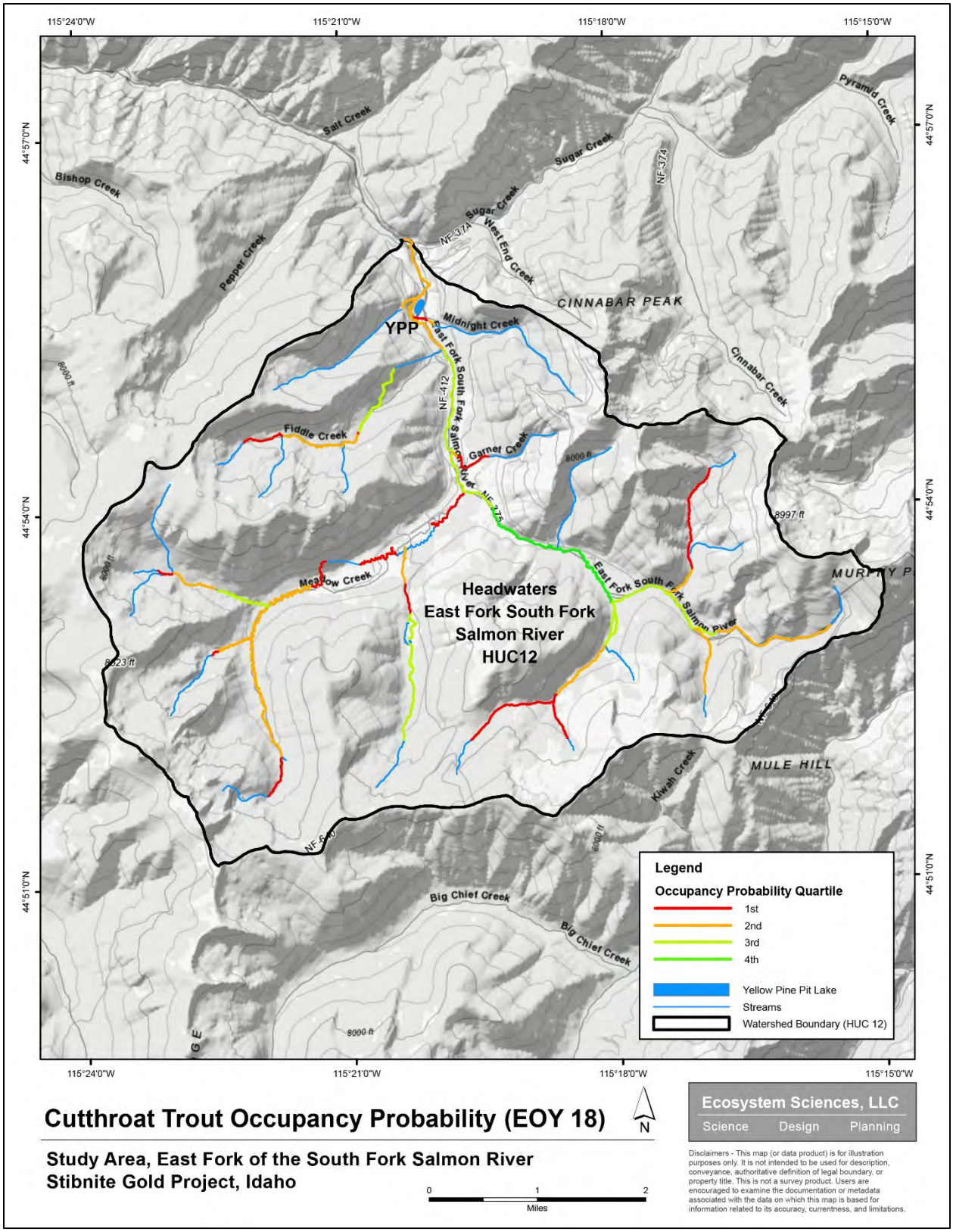



**Figure 19. EOY 18 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 5**

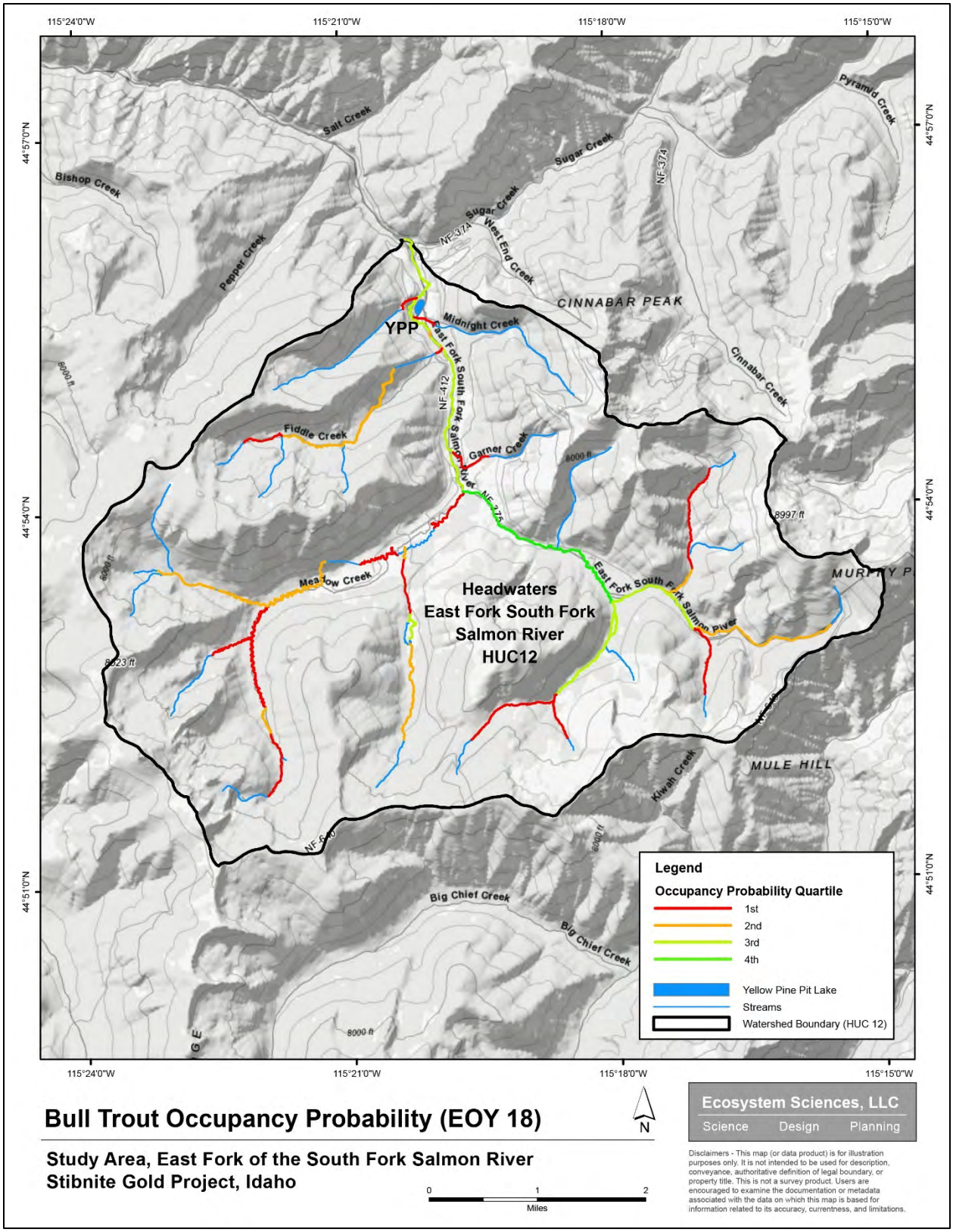



**Figure 20. EOY 18 Occupancy Probabilities for Bull Trout for Stream Segment 5**

### 4.3.1 EOY 18 Results for Stream Segment 1

For EOY 18, it is estimated that Stream Segment 1 would provide 10.4 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 55.5 percent to 67.5 percent, while those for bull trout would range from 1.1 percent to 11.5 percent. The distance weighted average occupancy probability for Stream Segment 1 during EOY 18 would be 63.3 percent for westslope cutthroat trout and 6.9 percent for bull trout. **Table 15** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 1. **Figures 21** and **22** display the occupancy probabilities for each mine site OM reach within Stream Segment 1 for westslope cutthroat trout and bull trout, respectively.

**Table 15. Descriptive Statistics for EOY 18 Occupancy Probabilities for Stream Segment 1**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 5 | 1,799 | 17.25% | 58.00% |
| Medium Low | 14 | 4,426 | 42.43% | 62.52% |
| Medium High | 3 | 4,207 | 40.33% | 66.26% |
| High | 0 | 0 | 0% | NA |
| Total | 22 | 10,432 | 100% | 63.25% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 7 | 2,333 | 22.36% | 2.10% |
| Medium Low | 6 | 3,398 | 32.58% | 5.98% |
| Medium High | 9 | 4,701 | 45.06% | 9.98% |
| High | 0 | 0 | 0% | NA |
| Total | 22 | 10,432 | 100% | 6.91% |

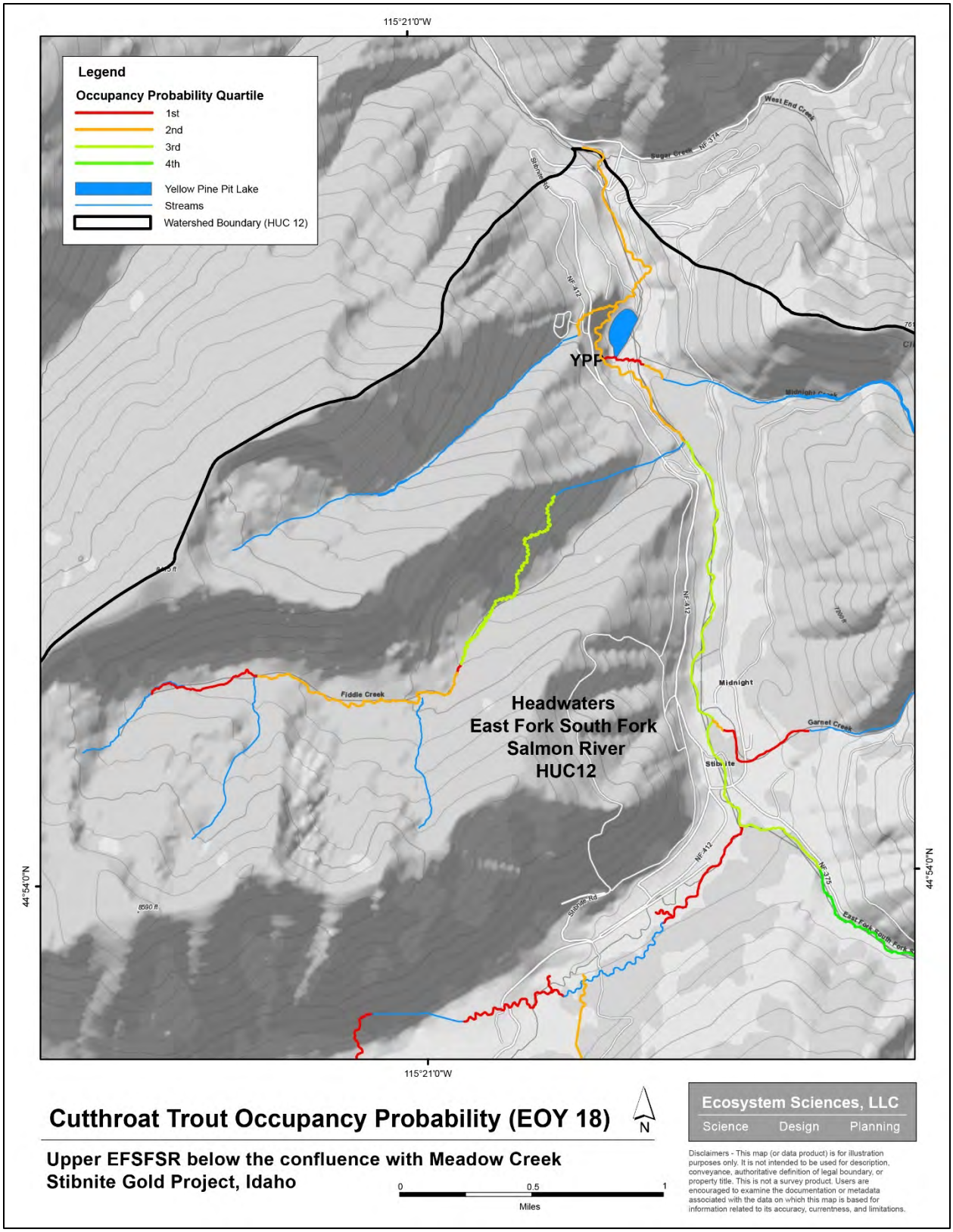



**Figure 21. EOY 18 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 1**

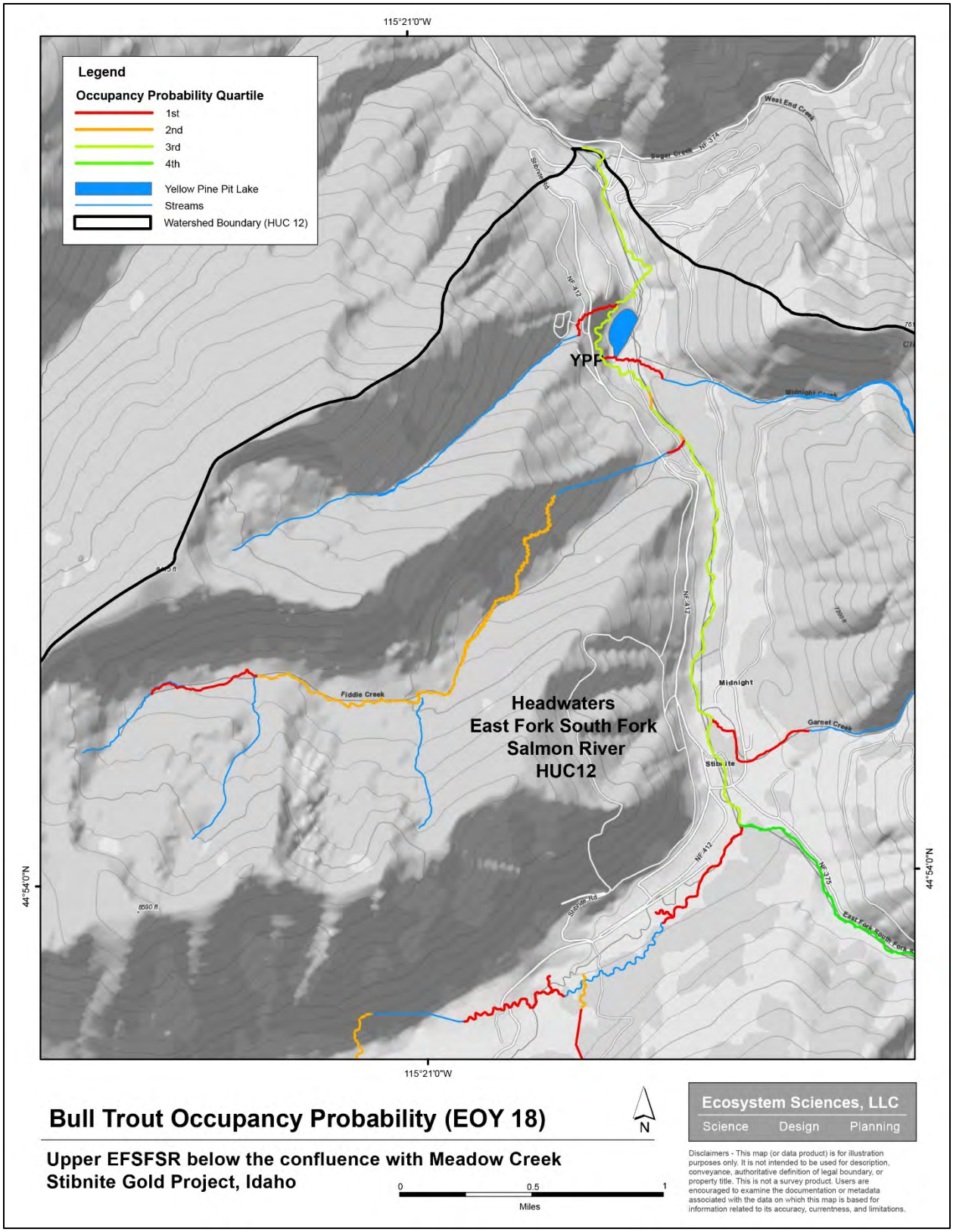



**Figure 22. EOY 18 Occupancy Probabilities for Bull Trout for Stream Segment 1**

### 4.3.2 EOY 18 Results for Stream Segment 2

For EOY 18, it is estimated that Stream Segment 2 provides 14.6 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout range from 35.6 percent to 67.8 percent, while those for bull trout range from 0.9 percent to 7.1 percent. The distance weighted average occupancy probability Stream Segment 2 during EOY 18 is 60.4 percent for westslope cutthroat trout and 3.6 percent for bull trout. **Table 16** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 2. **Figures 23** and **24** display the occupancy probabilities for each mine site OM reach within Stream Segment 2 for westslope cutthroat trout and bull trout, respectively.

**Table 16. Descriptive Statistics for EOY 18 Occupancy Probabilities for Stream Segment 2**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 11 | 4,096 | 28.04% | 51.92% |
| Medium Low | 9 | 6,981 | 47.79% | 62.49% |
| Medium High | 4 | 3,531 | 24.17% | 66.15% |
| High | 0 | 0 | 0% | NA |
| Total | 24 | 14,608 | 100% | 60.41% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 14 | 7,398 | 50.64% | 2.20% |
| Medium Low | 9 | 6,595 | 45.14% | 4.85% |
| Medium High | 1 | 616 | 4.21% | 7.12% |
| High | 0 | 0 | 0% | NA |
| Total | 24 | 14,608 | 100% | 3.61% |

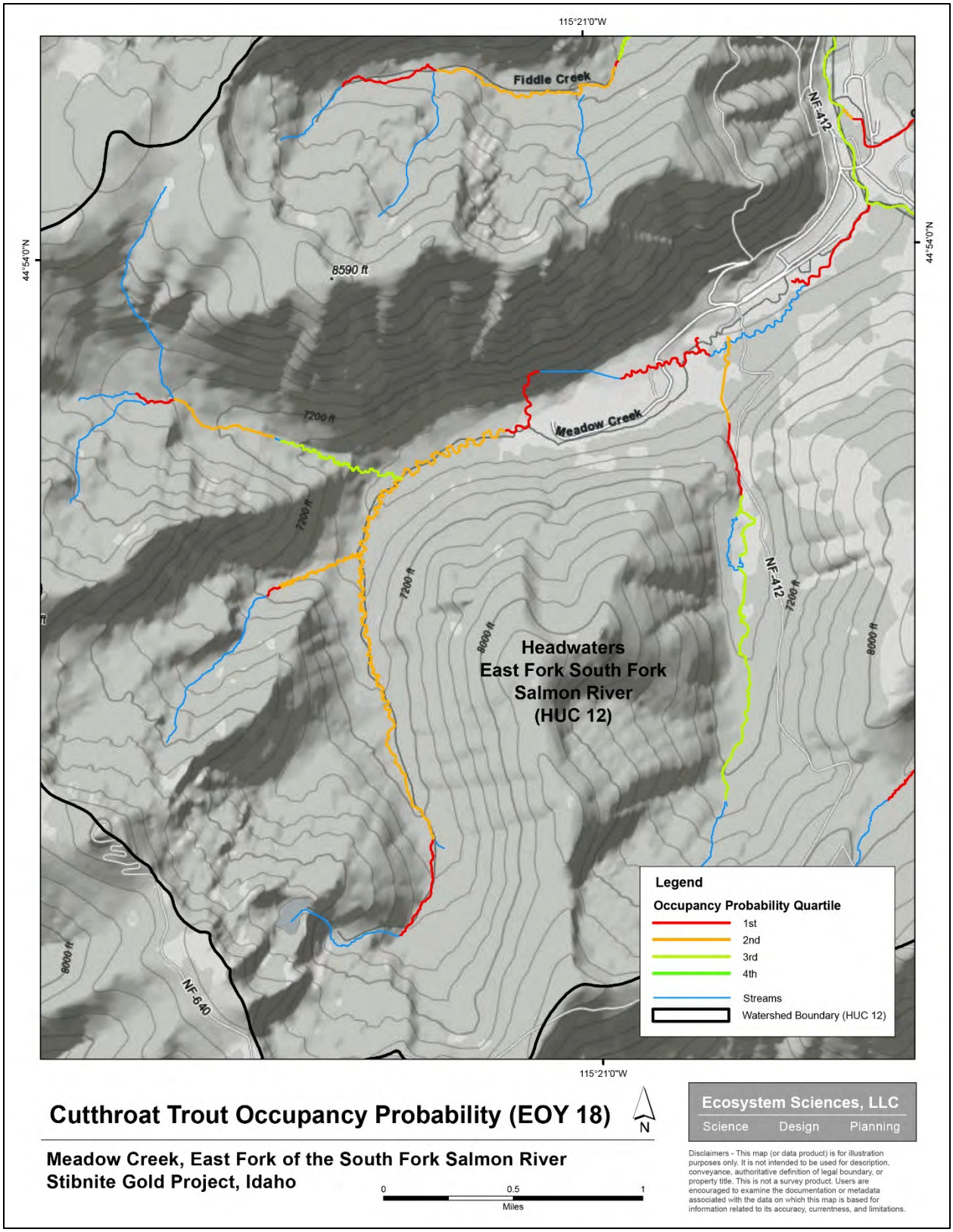



**Figure 23. EOY 18 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 2**

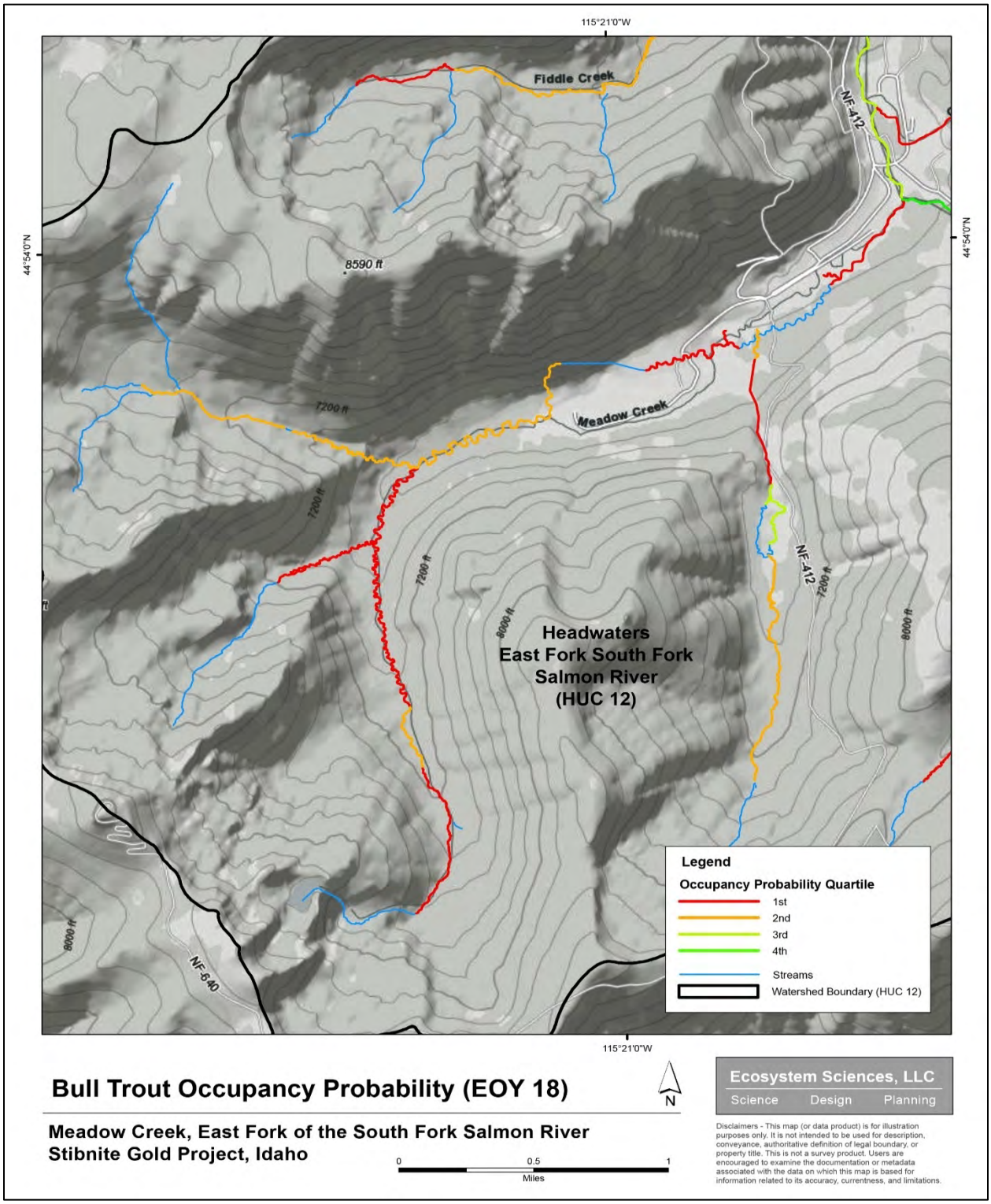



**Figure 24. EOY 18 Occupancy Probabilities for Bull Trout for Stream Segment 2**

### 4.3.3 EOY 18 Results for Stream Segment 3

For EOY 18, it is estimated that the Stream Segment 3 would provide 16.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.8 percent to 70.2 percent, while those for bull trout would range from 2.3 percent to 21.1 percent. The distance weighted average occupancy probability for Stream Segment 3 during EOY 18 would be 63.7 percent for westslope cutthroat trout and 8.7 percent for bull trout. **Table 17** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 3. **Figures 25** and **26** display the occupancy probabilities for each mine site OM reach within Stream Segment 3 for westslope cutthroat trout and bull trout, respectively.

**Table 17. Descriptive Statistics for EOY 18 Occupancy Probabilities for Stream Segment 3**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 3 | 4,071 | 25.21% | 58.12% |
| Medium Low | 4 | 5,059 | 31.33% | 62.08% |
| Medium High | 4 | 3,530 | 21.86% | 66.81% |
| High | 6 | 3,490 | 21.61% | 69.21% |
| Total | 17 | 16,150 | 100% | 63.66% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 5,267 | 32.61% | 2.68% |
| Medium Low | 3 | 3,141 | 19.45% | 4.51% |
| Medium High | 4 | 4,252 | 26.33% | 10.99% |
| High | 6 | 3,490 | 21.61% | 18.63% |
| Total | 17 | 16,150 | 100% | 8.67% |

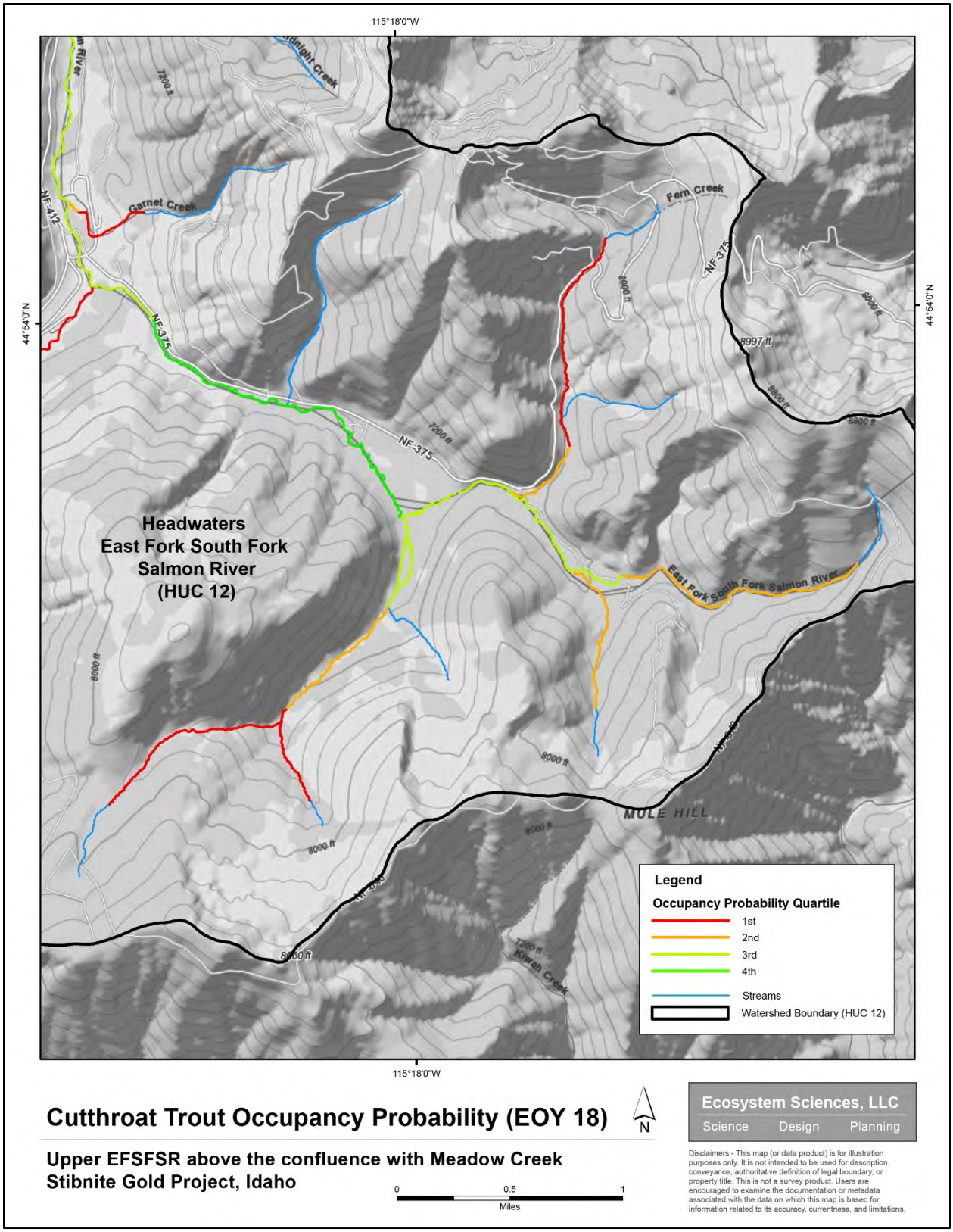



**Figure 25. EOY 18 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 3**

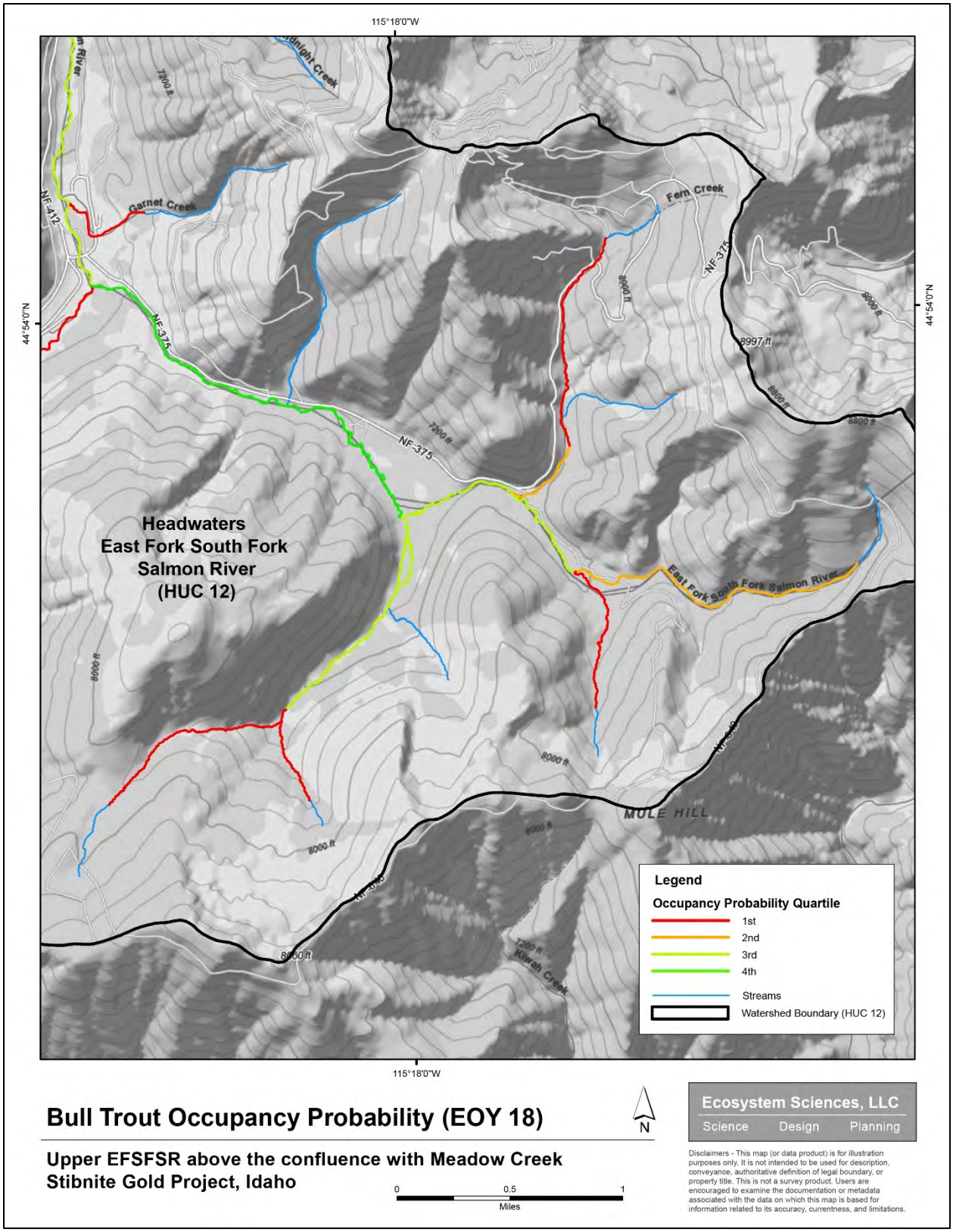



**Figure 26. EOY 18 Occupancy Probabilities for Bull Trout for Stream Segment 3**

## 4.4 EOY 112 RESULTS FOR STREAM SEGMENT 5

For EOY 112, it is estimated that the mine site OM study area would provide 41.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 38.4 percent to 70.2 percent, while those for bull trout would range from 1.0 percent to 21.4 percent. The distance weighted average occupancy probability would be 63.6 percent for westslope cutthroat trout and 7.3 percent for bull trout for the entire mine site OM study area.

**Table 18** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values across the entire study area. **Figures 27** and **28** display the occupancy probabilities for each mine site OM reach within the entire study area for westslope cutthroat trout and bull trout, respectively.

**Table 18. Descriptive Statistics for EOY 112 Occupancy Probabilities for Stream Segment 5**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Steam Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 14 | 8,094 | 19.65% | 55.97% |
| Medium Low | 16 | 9,491 | 23.04% | 62.22% |
| Medium High | 26 | 18,698 | 45.40% | 66.14% |
| High | 7 | 4,907 | 19.91% | 68.94% |
| Total | 63 | 41,190 | 100% | 63.57% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 5** | **Distance Weighted Average Occupancy Probability** |
| Low | 18 | 10,200 | 24.76% | 2.43% |
| Medium Low | 16 | 13,495 | 32.76% | 4.76% |
| Medium High | 23 | 14,005 | 34.00% | 10.27% |
| High | 6 | 3,490 | 8.47% | 19.10% |
| Total | 63 | 41,190 | 100% | 7.27% |

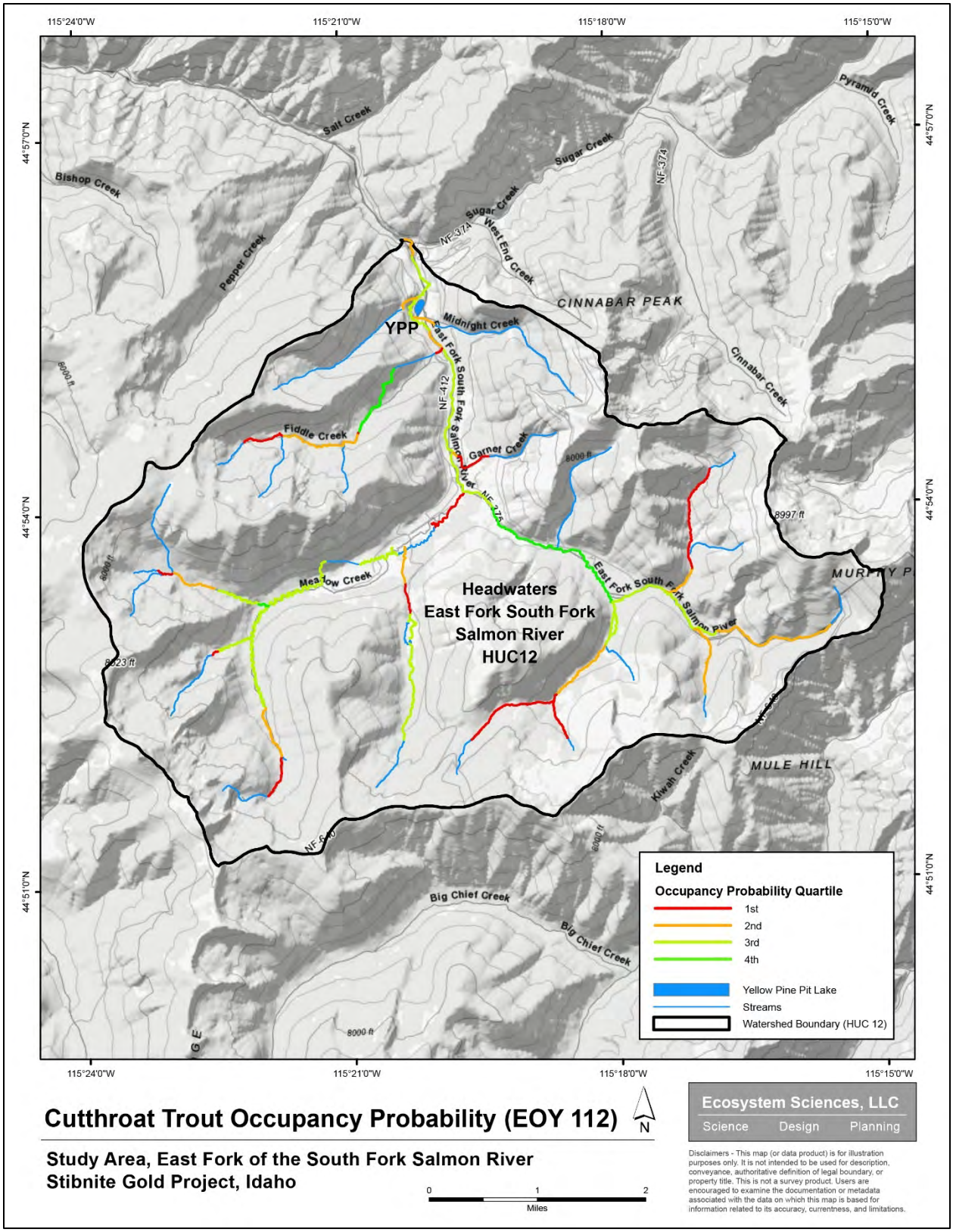



**Figure 27. EOY 112 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 5**

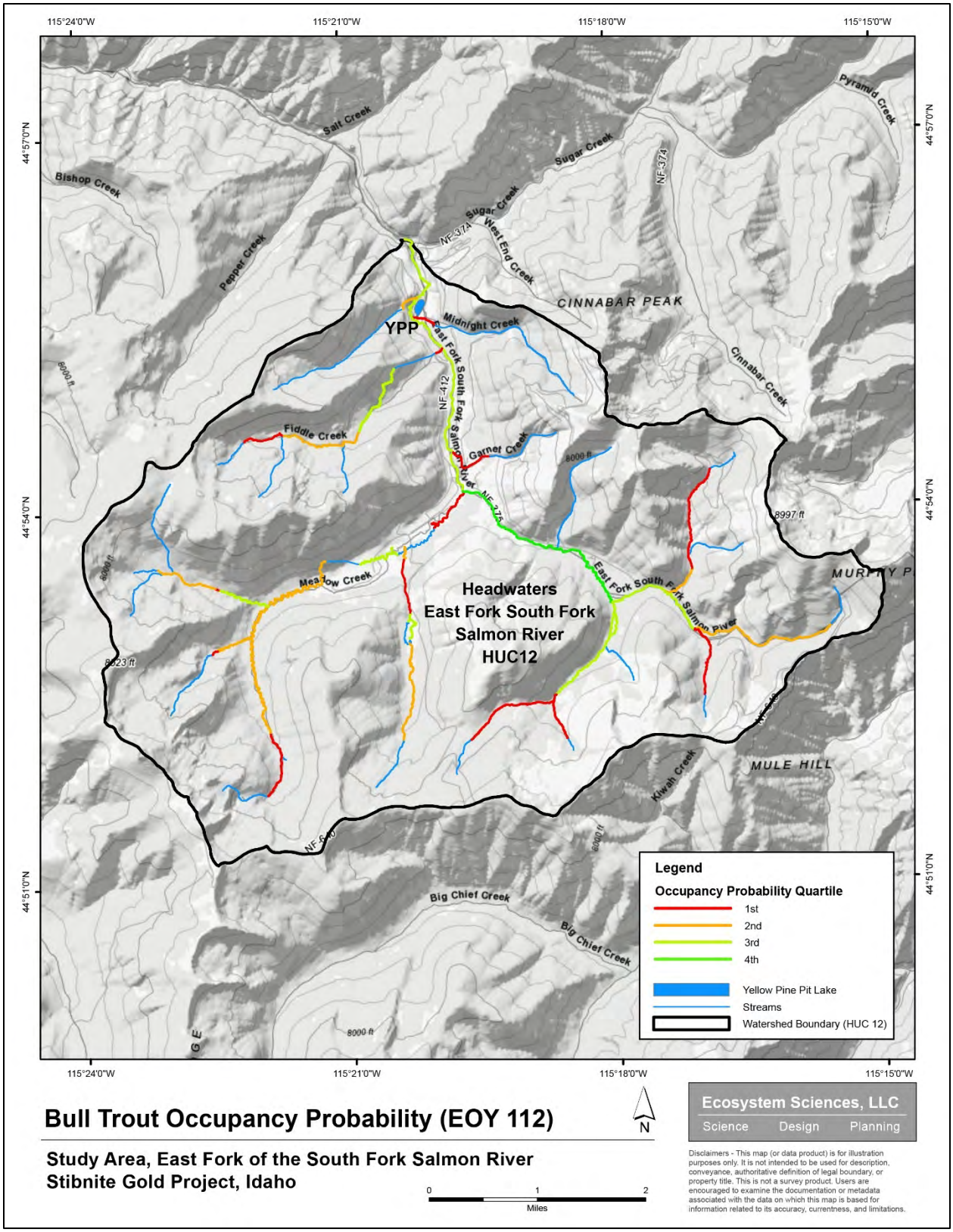



**Figure 28. EOY 112 Occupancy Probabilities for Bull Trout for Stream Segment 5**

### 4.4.2 EOY 112 Results for Stream Segment 1

For EOY 112, it is estimated that Stream Segment 1 would provide 10.4 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 57.1 percent to 68.0 percent, while those for bull trout would range from 1.0 percent to 13.7 percent. The distance weighted average occupancy probability for Stream Segment 1 during EOY 112 would be 64.4 percent for westslope cutthroat trout and 8.4 percent for bull trout. **Table 19** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 1. **Figures 29** and **30** display the occupancy probabilities for each mine site OM reach within Stream Segment 1 for westslope cutthroat trout and bull trout, respectively.

**Table 19. Descriptive Statistics for EOY 112 Occupancy Probabilities for Stream Segment 1**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 5 | 1,893 | 18.15% | 58.34% |
| Medium Low | 6 | 1,831 | 17.56% | 62.75% |
| Medium High | 6 | 1,964 | 18.83% | 65.22% |
| High | 5 | 4,743 | 45.46% | 67.12% |
| Total | 22 | 10,432 | 100% | 64.40% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 1** | **Distance Weighted Average Occupancy Probability** |
| Low | 6 | 1,974 | 18.92% | 2.14% |
| Medium Low | 4 | 1,838 | 17.62% | 5.48% |
| Medium High | 12 | 6,620 | 63.46% | 11.08% |
| High | 0 | 0 | 0% | NA |
| Total | 22 | 10,432 | 100% | 8.40% |

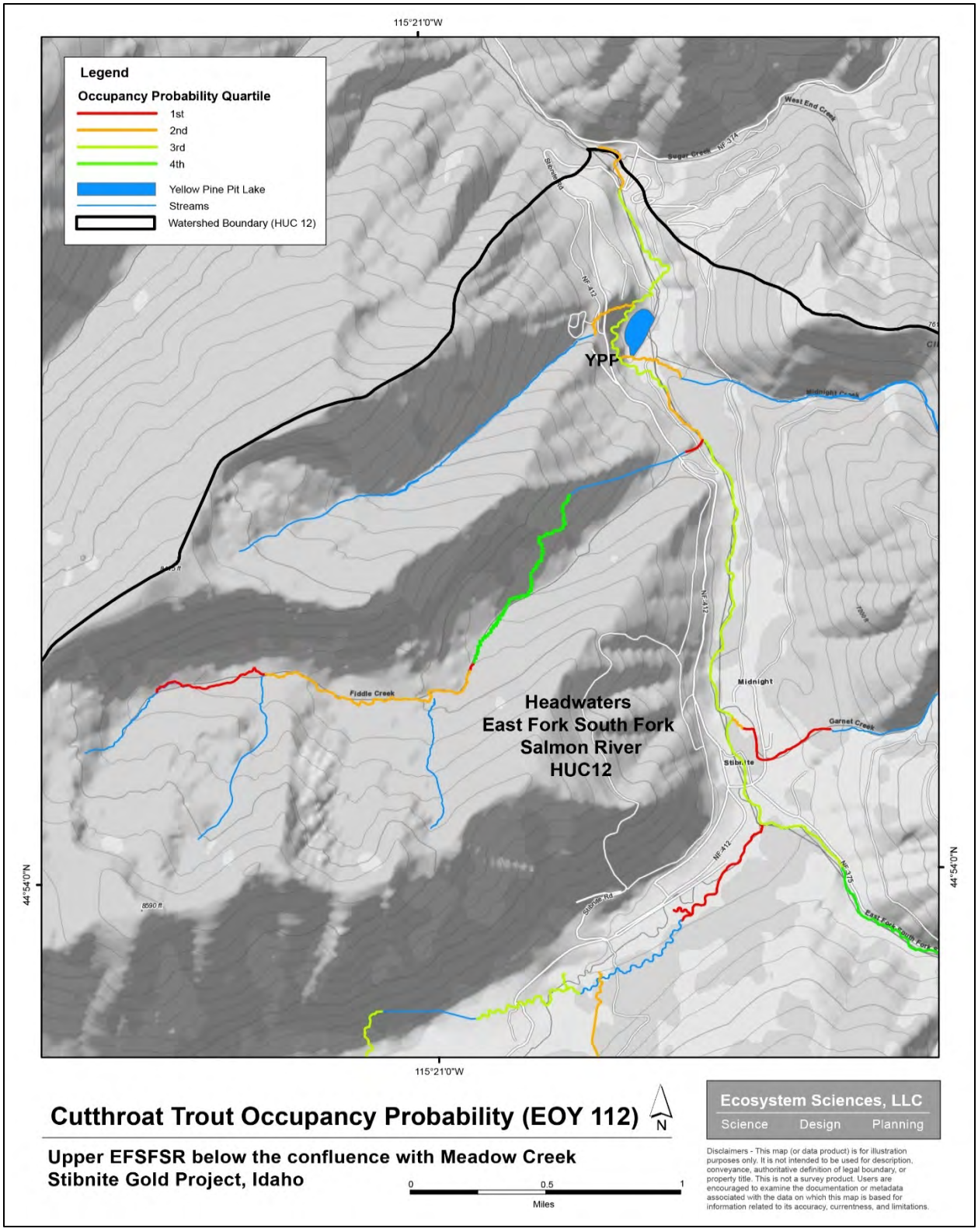



**Figure 29. EOY 112 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 1**

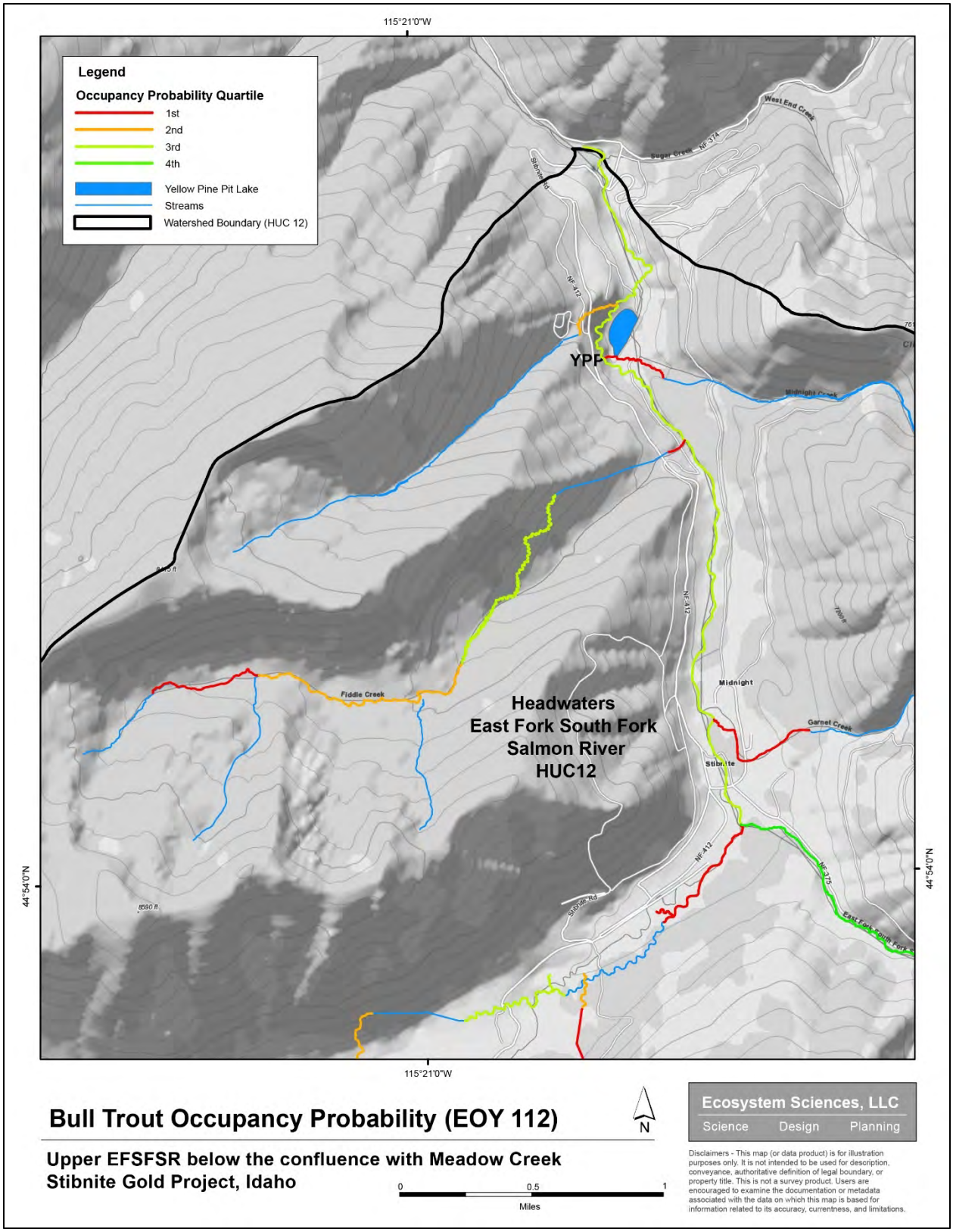



**Figure 30. EOY 112 Occupancy Probabilities for Bull Trout for Stream Segment 1**

### 4.4.1 EOY 112 Results for Stream Segment 2

For EOY 112, it is estimated that Stream Segment 2 would provide 14.6 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 35.4 percent to 68.3 percent, while those for bull trout would range from 1.0 percent to 8.0 percent. The distance weighted average occupancy probability for Stream Segment 2 during EOY 112 would be 62.9 percent for westslope cutthroat trout and 4.8 percent for bull trout. **Table 20** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 2. **Figures 31** and **32** display the occupancy probabilities for each mine site OM reach within Stream Segment 2 for westslope cutthroat trout and bull trout, respectively.

**Table 20. Descriptive Statistics for EOY 112 Occupancy Probabilities for Stream Segment 2**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 7 | 2,496 | 17.09% | 51.39% |
| Medium Low | 5 | 2,234 | 15.29% | 62.40% |
| Medium High | 11 | 9,671 | 66.20% | 65.87% |
| High | 1 | 207 | 1.42% | 68.33% |
| Total | 24 | 14,608 | 100% | 62.90% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 2** | **Distance Weighted Average Occupancy Probability** |
| Low | 8 | 2,959 | 20.26% | 2.14% |
| Medium Low | 10 | 8,940 | 61.20% | 4.78% |
| Medium High | 6 | 2,708 | 18.54% | 7.58% |
| High | 0 | 0 | 0% | NA |
| Total | 24 | 14,608 | 100% | 4.76% |

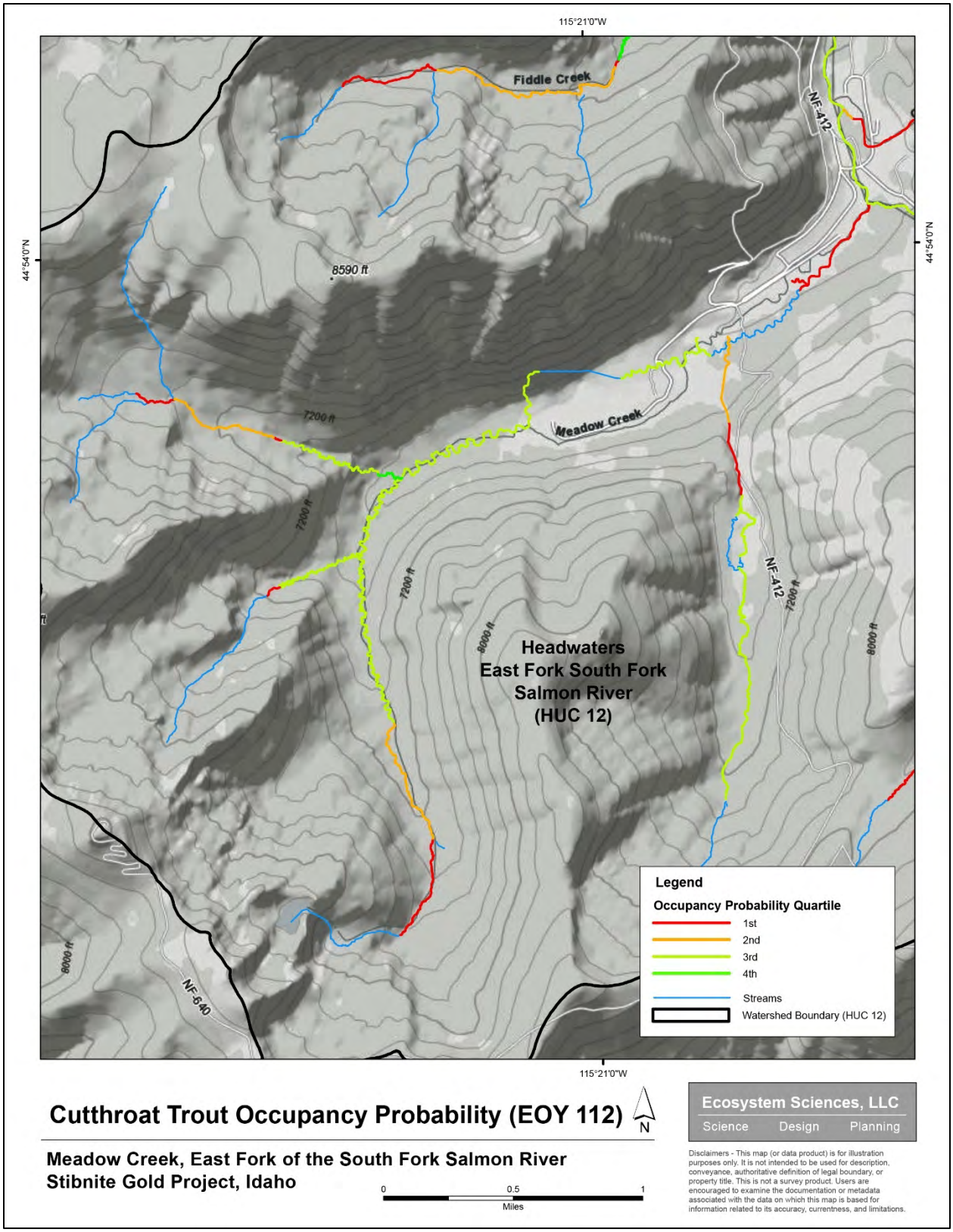



**Figure 31. EOY 112 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 2**

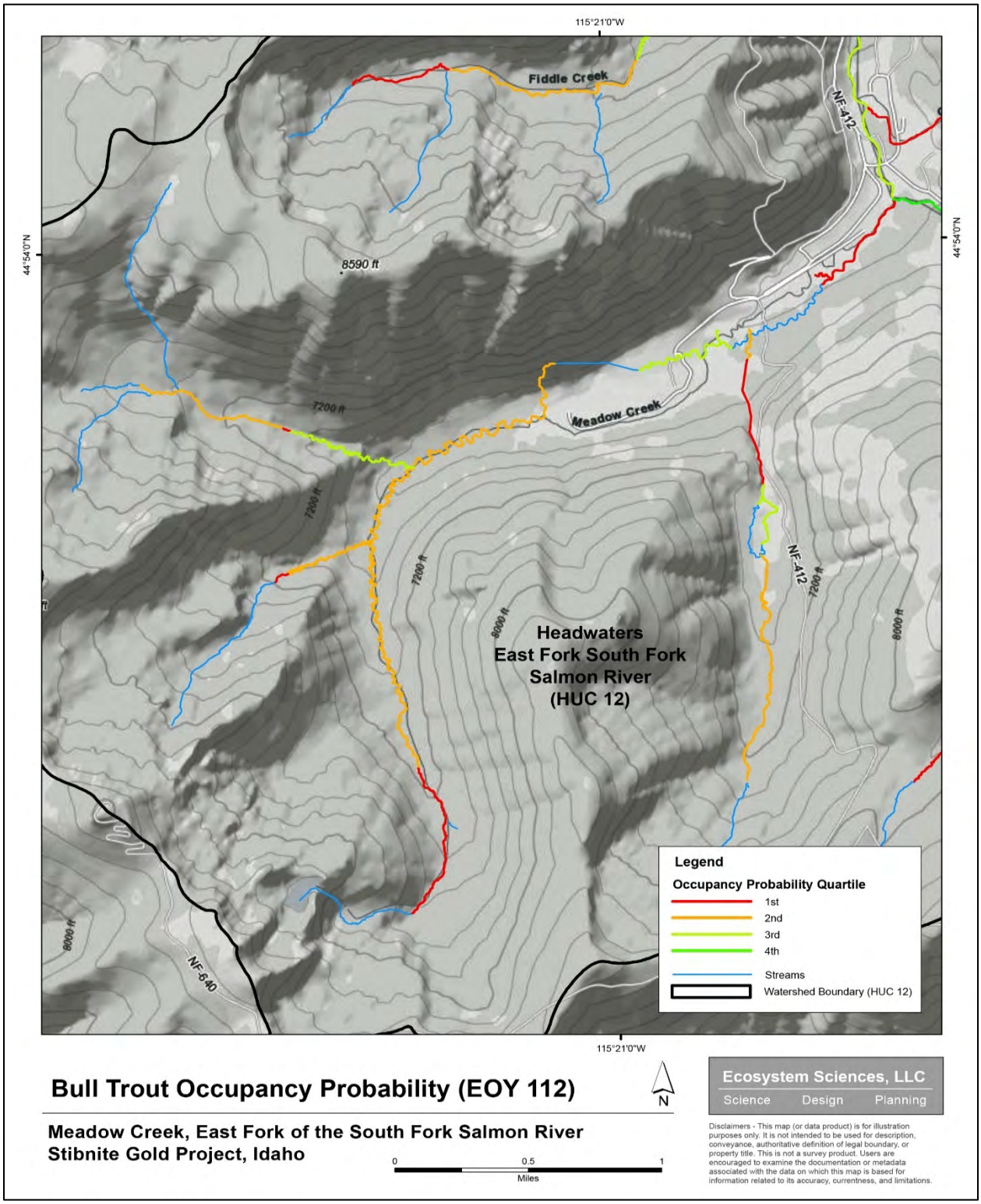



**Figure 32. EOY 112 Occupancy Probabilities for Bull Trout for Stream Segment 2**

### 4.4.3 EOY 112 Results for Stream Segment 3

For EOY 112, it is estimated that Stream Segment 3 would provide 16.2 km of potential habitat for westslope cutthroat trout and bull trout. The occupancy probabilities for westslope cutthroat trout would range from 56.7 percent to 70.2 percent, while those for bull trout would range from 2.3 percent to 21.4 percent. The distance weighted average occupancy probability for Stream Segment 3 during EOY 18 would be 63.7 percent for westslope cutthroat trout and 8.8 percent for bull trout. **Table 21** details the number of reaches, total length of reaches, percent of total study area, and distance weighted averaged occupancy probabilities for each quartile within the species' respective range of occupancy probability values within Stream Segment 3. **Figures 33** and **34** display the occupancy probabilities for each mine site OM reach within Stream Segment 3 for westslope cutthroat trout and bull trout, respectively.

**Table 21. Descriptive Statistics for EOY 112 Occupancy Probabilities for Stream Segment 3**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 3 | 4,071 | 25.21% | 58.10% |
| Medium Low | 4 | 5,059 | 31.33% | 62.07% |
| Medium High | 5 | 4,106 | 25.42% | 66.91% |
| High | 5 | 1,595 | 9.87% | 69.55% |
| Total | 17 | 16,150 | 100% | 63.65% |
| **Bull Trout** | | | | |
| | **Number of Reaches** | **Length of Reaches (m)** | **Percent of Stream Segment 3** | **Distance Weighted Average Occupancy Probability** |
| Low | 4 | 5,267 | 32.61% | 2.70% |
| Medium Low | 3 | 3,141 | 19.45% | 4.53% |
| Medium High | 4 | 4,252 | 26.33% | 11.09% |
| High | 6 | 3,490 | 21.61% | 19.10% |
| Total | 17 | 16,150 | 100% | 8.81% |

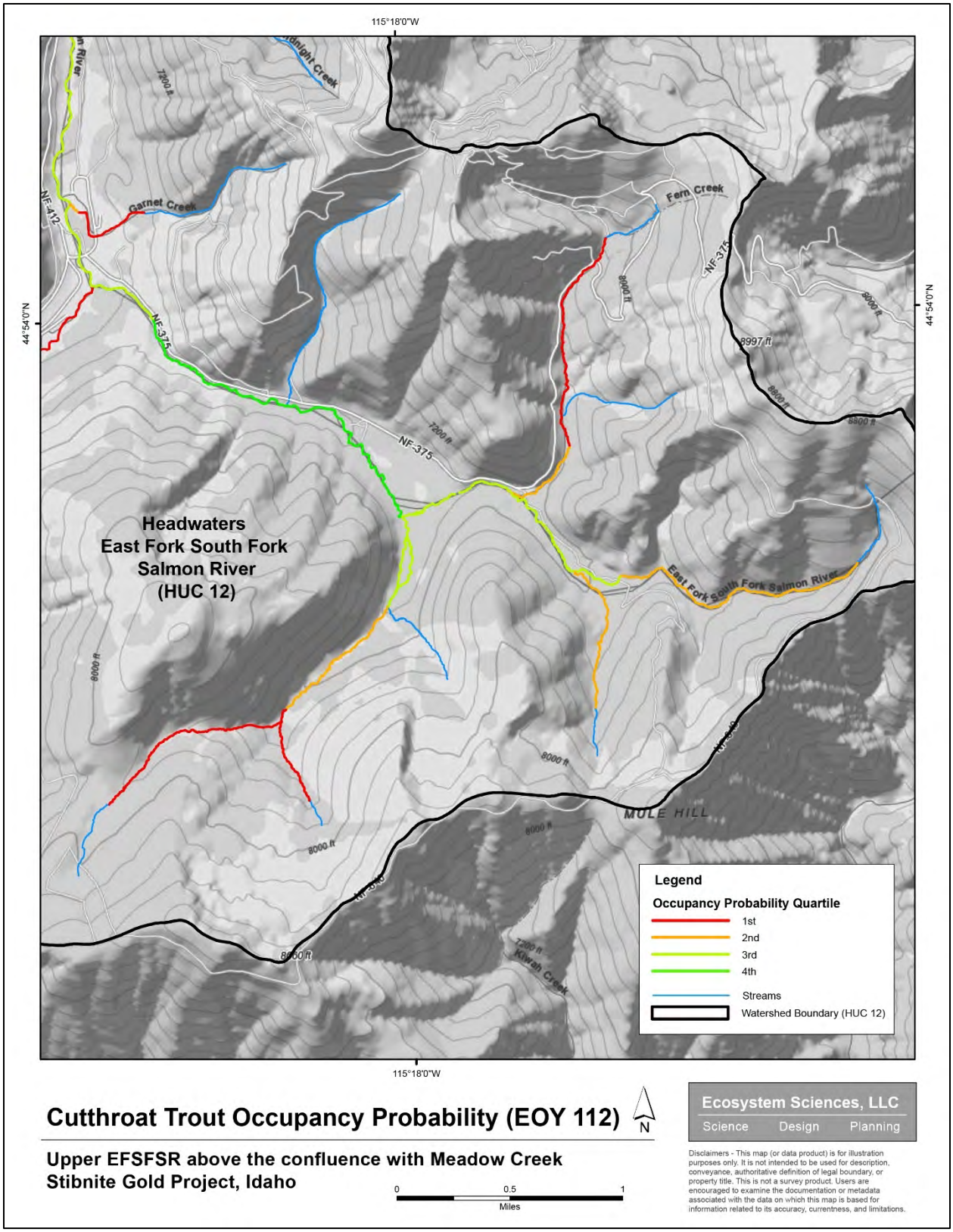



**Figure 33. EOY 112 Occupancy Probabilities for Westslope Cutthroat Trout for Stream Segment 3**

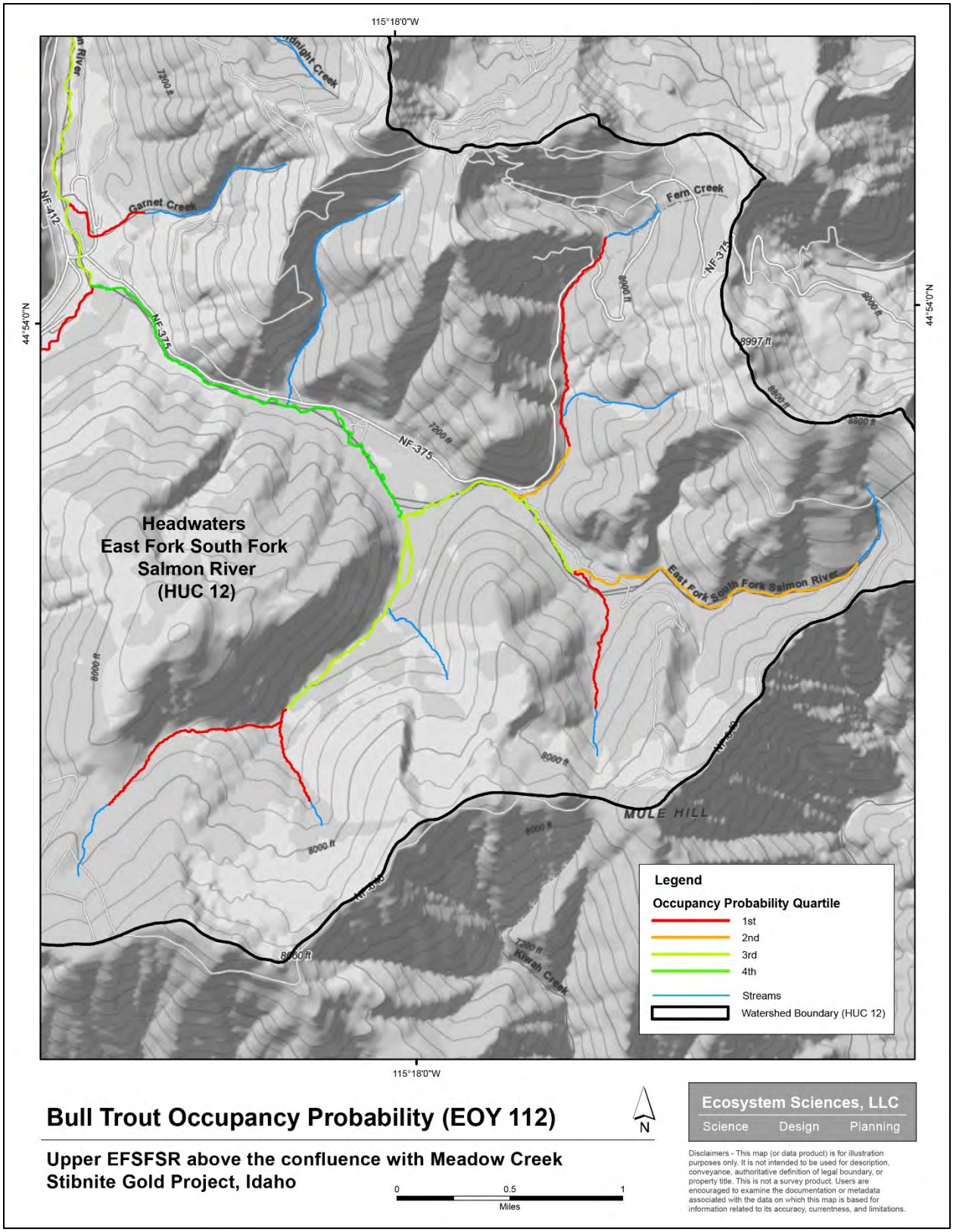



**Figure 34. EOY 112 Occupancy Probabilities for Bull Trout for Stream Segment 3**

# 5.0 DISCUSSION

The impacts associated with the proposed action are shown through changes to two separate metrics (habitat availability and habitat occupancy) throughout and beyond the life of the mine. The losses in available stream habitat are not integrated into estimated occupancy probabilities (e.g., diverted reaches during EOY 6 and EOY 18 are not given a 0 percent value). Length of available habitat and distance weighted occupancy probability and their respective percent changes from existing condition to each proposed action model year are discussed below.

## 5.1 CHANGE IN AVAILABLE HABITAT

The stream discharge and channel slope restrictions are identical for both species, so the length of available habitat is reported as the same for both species. The length of available habitat would decrease under Alternative 1. Lengths of available habitat are reported in kilometers for existing conditions and each model year for each stream segment (**Table 22** and **Figure 35**). Percent change in length of available habitat from existing condition to each model year for each stream segment is presented in **Table 23** and **Figure 36**.

A notable distinction in the lengths of available habitat between the two species is as follows. Bull trout are known to occupy Upper Meadow Creek within the footprint of the TSF/DRSF. They are not known to exist above the TSF/DRSF footprint. Therefore, it is likely that if the reaches within the footprint of the DRSF/TSF were to be dewatered and their flow directed into diversion channels and the gradient barrier at the face of the DRSF introduced, there would be no mechanism by which bull trout would be able to recolonize any future stream segments above the DRSF. In EOY 6 and EOY 12, when flow in Meadow Creek is diverted around the TSF/DRSF footprint, 2.13 km of stream are classified as available habitat for bull trout based on the model parameters. Based on the discussion above, it is unlikely that bull trout will have access to these areas. In EOY 18 and EOY 112, the OM classifies 9.14 km of stream above the TSF/DRSF footprint as available habitat for bull trout; this area would also not likely be accessible to bull trout. The same situation would occur in regard to the Fiddle Creek DRSF.

For existing conditions, the mine site OM study area provides just under 42 km of stream channel that is available habitat for westslope cutthroat trout and bull trout. At EOY 6, the amount of available habitat would decrease by approximately 30 percent to 28.91 km. By EOY 12, there would be 33.07 km of available habitat. The amount of available habitat at EOY 18 and EOY 112 would be nearly back to the amount of habitat available during existing conditions (41.19 km). For the proposed action, Stream Segment 3 would not lose native trout habitat; all habitat losses would be attributed to the Stream Segments 1 and 2. For Stream Segment 1, the decrease in available habitat would range from 41.15 percent during EOY 6 to 0.19 percent during the post-closure model years. The decrease in available habitat in Stream Segment 2 would range from 56.23 percent during EOY 6 and EOY 12, to 3.25 percent during the post-closure model years.

**Table 22. Length of Available Habitat for Bull Trout and Westslope Cutthroat Trout for each Stream Segment**

| | Length of Available Habitat (km) | | | | |
|---|---|---|---|---|---|
| | Baseline | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | 10.45 | 6.15 | 10.30 | 10.43 | 10.43 |
| Stream Segment 2 | 15.10 | 6.61 | 6.61 | 14.61 | 14.61 |
| Stream Segment 3 | 16.15 | 16.15 | 16.15 | 16.15 | 16.15 |
| Stream Segment 5 | 41.70 | 28.91 | 33.07 | 41.19 | 41.19 |

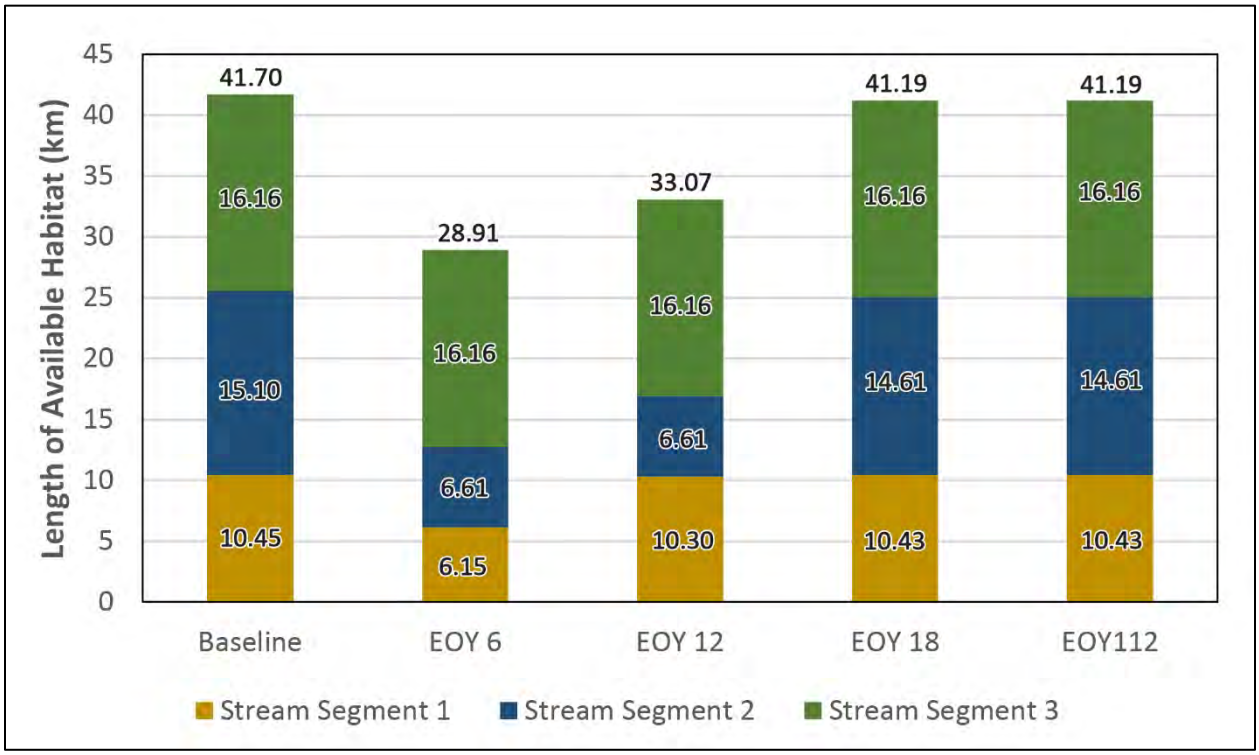



**Figure 35. Length of Available Habitat for Bull Trout and Westslope Cutthroat Trout for each Stream Segment for Existing Conditions and all Modeled Years**

**Table 23. Percent Change in Length of Available Habitat from Existing Conditions to each Model Year for Bull Trout and Westslope Cutthroat Trout for each Stream Segment**

| | Percent Change in Length of Available Habitat (km) | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | -41.15% | -1.44% | -0.19% | -0.19% |
| Stream Segment 2 | -56.23% | -56.23% | -3.25% | -3.25% |
| Stream Segment 3 | 0.00% | 0.00% | 0.00% | 0.00% |
| Stream Segment 5 | -30.67% | -20.70% | -1.22% | -1.22% |

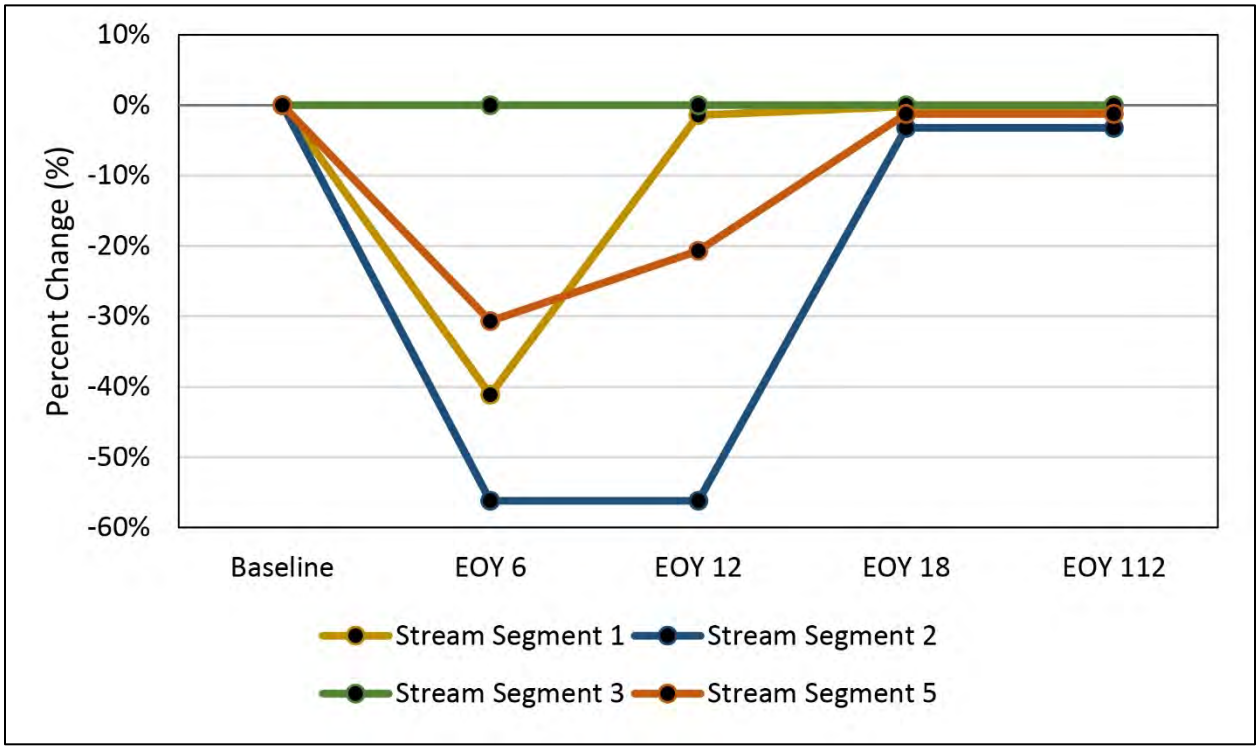



**Figure 36. Percent Change in Length of Available Habitat for Stream Segment 5 for all Modeled Years**

## 5.2 CHANGE IN HABITAT OCCUPANCY

The distributions of distance weighted occupancy probabilities for westslope cutthroat trout for each stream segment for existing conditions and each of the proposed action model years are shown in **Table 24** and **Figures 37**. Percent change in distance weighted occupancy probabilities for westslope cutthroat trout from existing condition to each proposed action model year for each stream segment is shown in **Table 25** and **Figure 38**.

**Table 24. Distance weighted average occupancy probabilities for westslope cutthroat trout by for each stream segment.**

| | Westslope Cutthroat Trout Occupancy Probability | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | 63.73% | 64.22% | 65.02% | 63.25% | 64.40% |
| Stream Segment 2 | 64.06% | 63.77% | 63.61% | 60.41% | 62.90% |
| Stream Segment 3 | 63.59% | 63.65% | 63.65% | 63.66% | 63.65% |
| Stream Segment 5 | 63.79% | 63.80% | 64.07% | 62.40% | 63.57% |

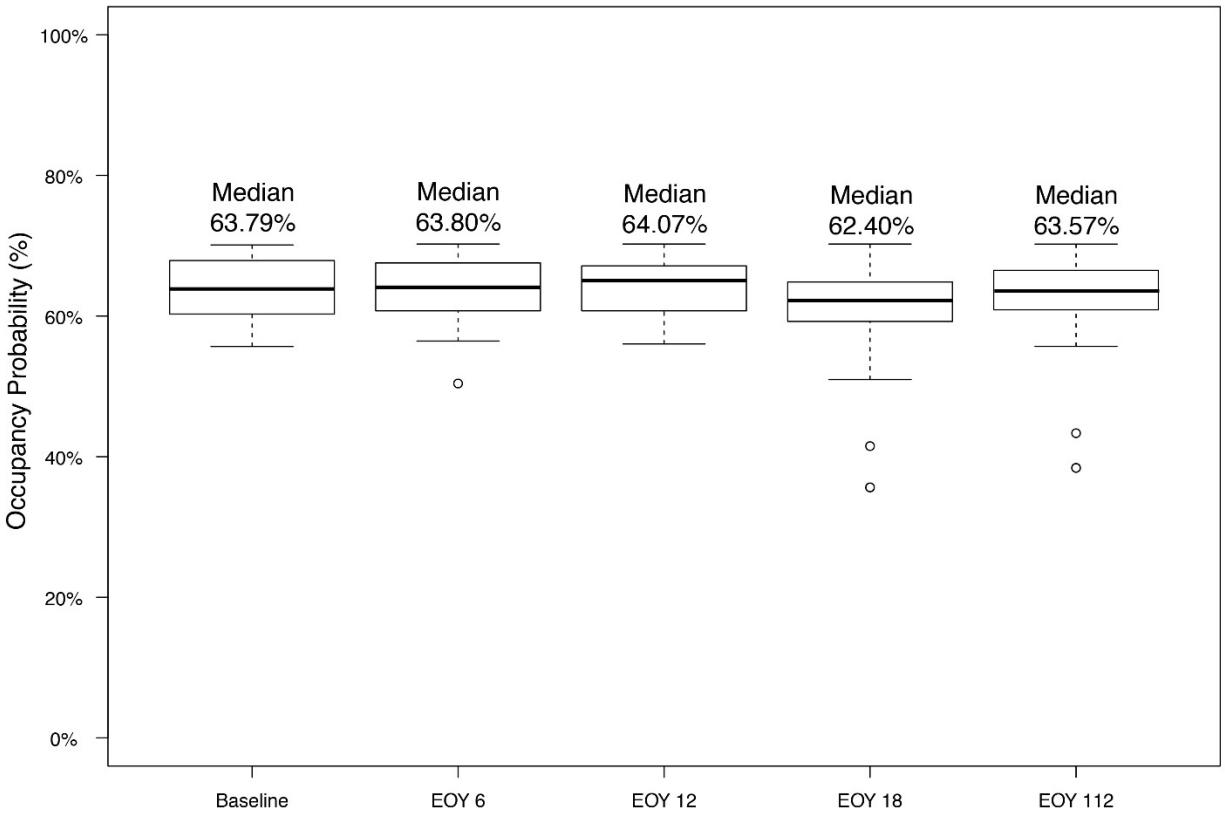



**Figure 37. Occupancy Probability Distributions for Westslope Cutthroat Trout for Stream Segment 5 for all Modeled Years. The Boxolots Represent Quartiles, the Median, and Outliers within the Distributions**

**Table 25. Percent Change in Distance Weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Westslope Cutthroat Trout for each Stream Segment**

| | Percent Change in Westslope Cutthroat Trout Occupancy Probability | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | 0.77% | 2.02% | -0.75% | 1.05% |
| Stream Segment 2 | -0.45% | -0.70% | -5.70% | -1.81% |
| Stream Segment 3 | 0.09% | 0.09% | 0.11% | 0.09% |
| Stream Segment 5 | 0.02% | 0.44% | -2.18% | -0.34% |

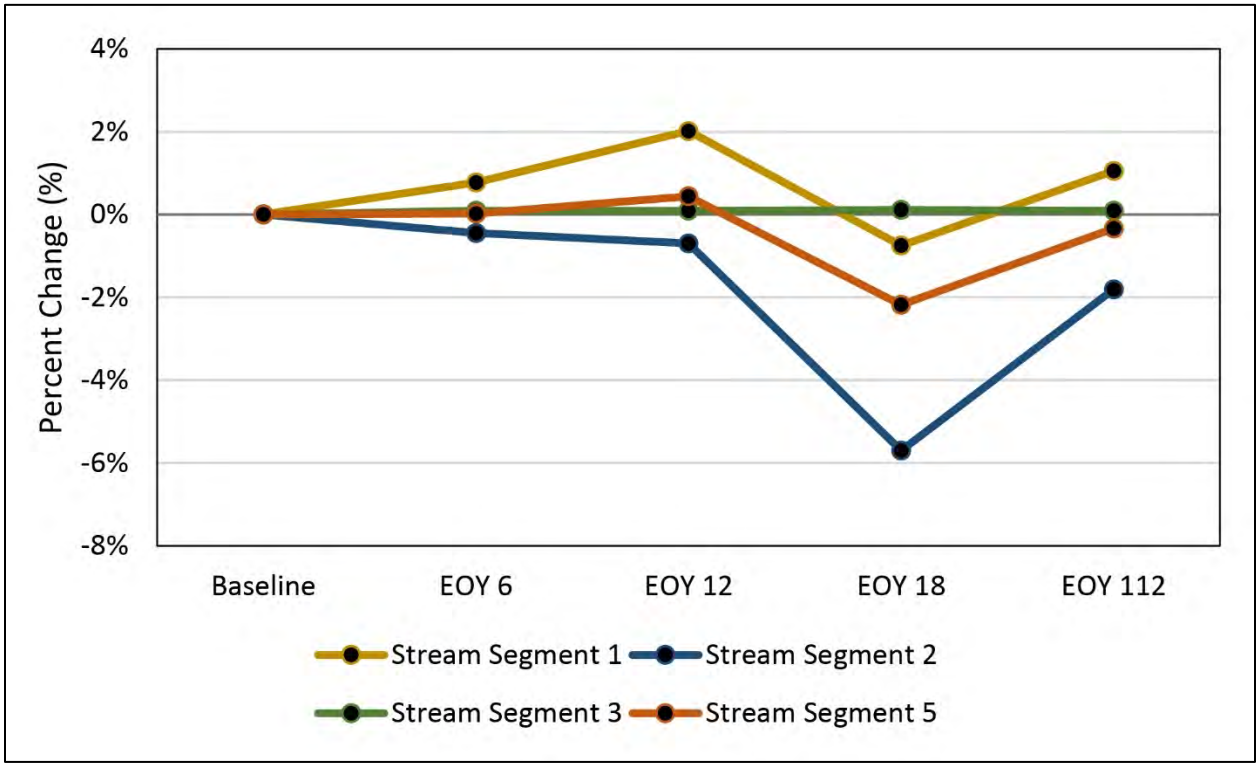



**Figure 38. Percent Change in Distance Weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Westslope Cutthroat Trout for each Stream Segment**

The distributions of distance weighted occupancy probabilities for bull trout for each stream segment for existing conditions and each of the proposed action model years are shown in **Table 26** and **Figures 39**. Percent change in distance weighted occupancy probabilities for bull trout from existing condition to each proposed action model year for each stream segment is shown in **Table 27** and **Figure 40**.

**Table 26. Distance Weighted Average Occupancy Probabilities for Bull Trout for each Stream Segment**

| | Bull Trout Occupancy Probability | | | | |
|---|---|---|---|---|---|
| | Baseline | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | 9.66% | 10.63% | 9.52% | 6.91% | 8.40% |
| Stream Segment 2 | 6.29% | 5.66% | 5.17% | 3.61% | 4.76% |
| Stream Segment 3 | 9.34% | 8.71% | 8.57% | 8.67% | 8.81% |
| Steam Segment 5 | 8.31% | 8.42% | 8.19% | 6.43% | 7.27% |

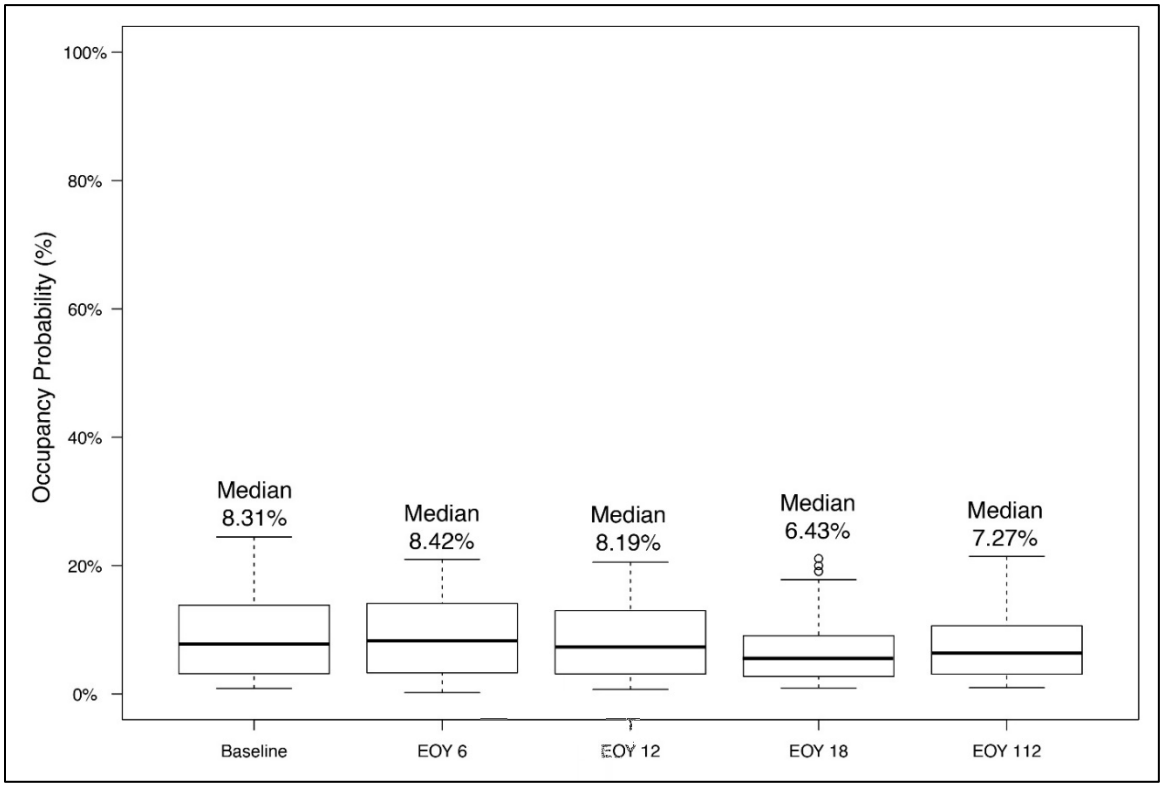



**Figure 39. Occupancy Probability Distributions for Bull Trout for Stream Segment 5 for all Modeled Years. The Boxolots Represent Quartiles, the Median, and Outliers within the Distributions**

**Table 27. Percent Change in Distance Weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Bull Trout for each Stream Segment**

| | Percent Change in Bull Trout Occupancy Probability | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | 10.04% | -1.45% | -28.47% | -13.04% |
| Stream Segment 2 | -10.02% | -17.81% | -42.61% | -24.32% |
| Stream Segment 3 | -6.75% | -8.24% | -7.17% | -5.67% |
| Stream Segment 5 | 1.32% | -1.44% | -22.62% | -12.52% |

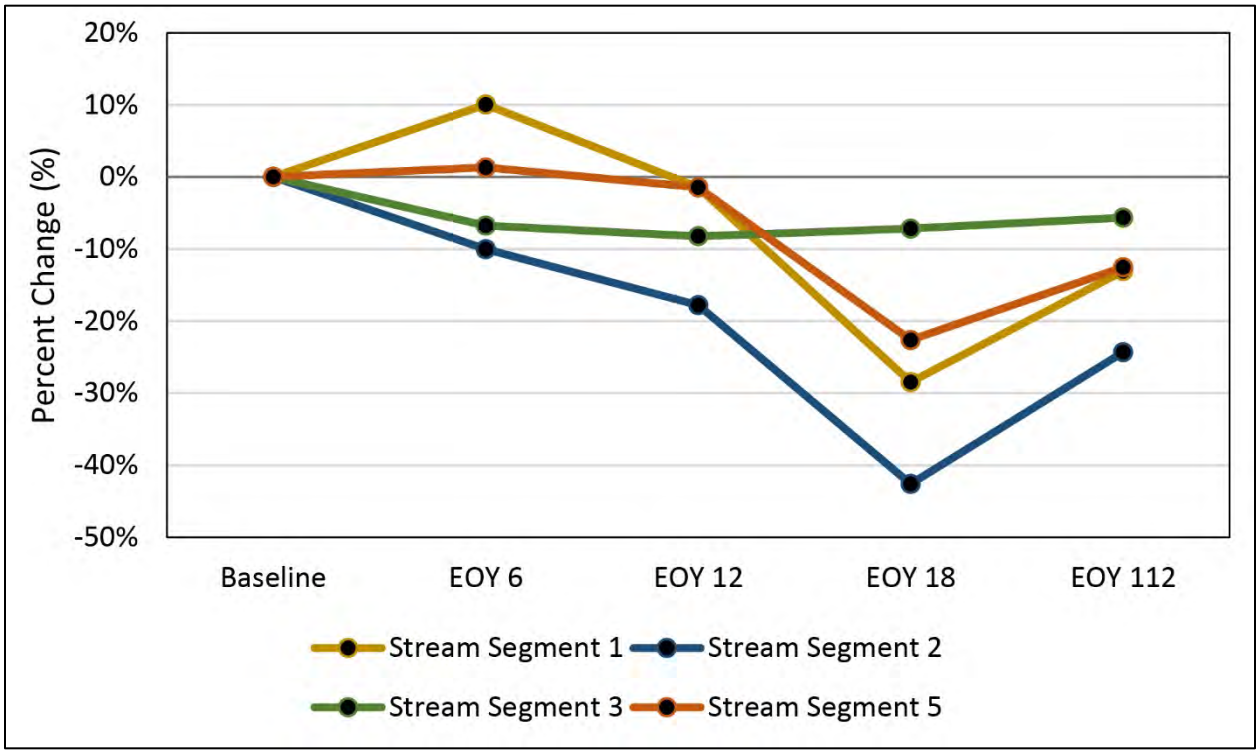



**Figure 40. Percent Change in Distance Weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Bull Trout for each Stream Segment**

The proposed action OM model shows that the two species occupancy percentages would respond to mining actions similarly. For westslope cutthroat trout overall, there would be slight increases estimated in distance weighted occupancy probabilities from existing conditions through EOY 6 to EOY 12, a decrease from EOY 12 to EOY 18, and an increase back to near existing condition levels by EOY 112. Stream Segment 2 would account for most of the decreases in westslope cutthroat trout occupancy, while there would be slight increases in occupancy within Stream Segment 1. For bull trout overall, the model indicates that there would be a small increase and decrease in distance weighted occupancy probabilities from existing conditions through EOY 6 to EOY 12, a decrease from EOY 12 to EOY 18, and an increase back toward existing condition levels by EOY 112. The decrease in EOY 18 occupancy probabilities is primarily due to higher estimated stream temperatures and discharges in that year (see **Tables 3** and **4**).

# 6.0 SUMMARY

This TM explains the methods and results of the mine site proposed action OM, which predicts the quantity and spatial distribution of westslope cutthroat trout and bull trout habitat for EOY 6, EOY 12, EOY 18, and EOY 112 within the mine site study area. The mine site OM also estimates the probability of the two species' occurrence within the headwaters of the EFSFSR watershed upstream from the confluence of Sugar Creek. The methods used to determine the occupancy probability per stream reach follow the approaches that the existing regional OM employed for watersheds within the Rocky Mountains of Idaho and western Montana, in which the mine site study area is located. The mine site OM differs from the existing regional OM methodology by employing site-scale data attributed to stream reaches that are meaningful in terms of the mine site study area.

Habitat availability is reported as the same for both native trout species within the OM. Although some areas may not be accessible to bull trout following the proposed action. Throughout the study area, there would be an estimated 30 percent decrease in available habitat from existing conditions during EOY 6. During EOY 12, there would be a decrease of just over 20 percent of available habitat from existing conditions. For both post-closure model years, there would be a 1.22 percent decrease of available habitat.

Although there are certain times/locations during mining operations for which the proposed action OM results indicate slight increases in occupancy for the two native trout species, the results more generally indicate reductions in both habitat availability and occupancy for both species during and after mining.

**Westslope Cutthroat Trout**

The results indicate that there would be little change in projected westslope cutthroat trout occupancy within the mine site study area during the life of the mine as compared to existing conditions. During the post mine period, projected westslope cutthroat trout occupancy would decrease slightly (2.18 percent and 0.34 percent for EOY 18 and EOY 112).

**Bull Trout**

Estimated bull trout occupancy would follow a similar trend, but with greater magnitudes. There would be a slight increase in occupancy during EOY 6 and a slight decrease in occupancy during EOY 12. Projected occupancy for bull trout during the post mine period would decrease by 22.62 percent and 12.52 percent (EOY 18 and EOY 112, respectively).

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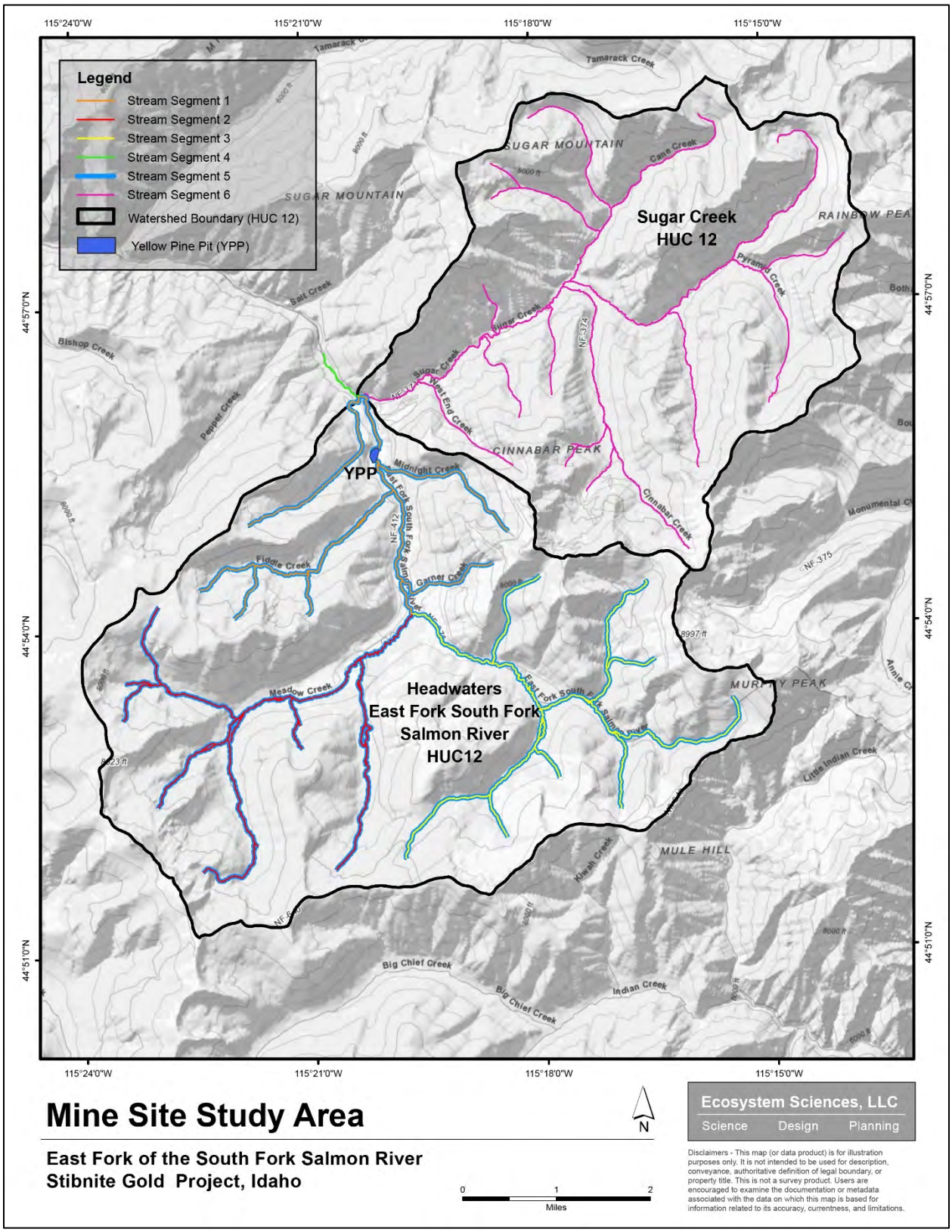
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# Appendix A: Mine Site Stream Segmentation

The mine site study area, as displayed below, has been delineated into six different stream segments as follows:

- **Stream Segment 1:** The Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream Segment 2:** The entirety of the Meadow Creek drainage area, including the East Fork Meadow Creek.
- **Stream Segment 3:** The Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream Segment 4:** The modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream Segment 5:** The entirety of the HUC 12 “Headwaters East Fork South Fork Salmon River” (See figure below). Stream segment 5 is the summation of Stream Segments 1, 2 and 3.
- **Stream Segment 6:** The Sugar Creek drainage area, or the HUC 12 “Sugar Creek” (See figure below).


Legend
Stream Segment 1
Stream Segment 2
Stream Segment 3
Stream Segment 4
Stream Segment 5
Stream Segment 6
Watershed Boundary (HUC 12)
Yellow Pine Pit (YPP)
Sugar Creek HUC 12
Headwaters East Fork South Fork Salmon River HUC12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
MURRAY PEAK
MULE HILL
RAINBOW PEA
Tamarack Creek
Cane Creek
Pyramid Creek
Sugar Creek
West End Creek
Cinnabar Creek
Midnight Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Salt Creek
Bishop Creek
Peppel Creek
Little Indian Creek
Kinzel Creek
Big Chief Creek
Indian Creek
NF-374
NF-375
NF-412
115°24'0"W
115°21'0"W
115°18'0"W
115°15'0"W
44°57'0"N
44°54'0"N
44°51'0"N
Mine Site Study Area
East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
0
1
2
Miles
Ecosystem Sciences, LLC
Science Design Planning
Disclaimers - This map (or data product) is for illustration purposes only. It is not intended to be used for description, conveyance, authoritative definition of legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation or metadata associated with the data on which this map is based for information related to its accuracy, currentness, and limitations.

# Appendix B: Mine Site OM Variables and Occupancy Probabilities for each model year within the Proposed Action

## EOY 6

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| BC0.1 | 9.49 | 0.85 | 4.49% | 4.66% | 64.73% | 1782.76 |
| BC1 | 9.49 | 1.58 | 1.56% | 8.86% | 68.08% | 614.87 |
| BC3 | 10.57 | 2.69 | 4.87% | 6.36% | 65.63% | 251.87 |
| EF0.01 | 8.80 | 0.32 | 7.23% | 2.52% | 60.73% | 1196.36 |
| EF0.02 | 8.80 | 0.63 | 8.60% | 3.44% | 61.04% | 2057.33 |
| EF0.03 | 8.80 | 1.06 | 5.05% | 6.60% | 64.84% | 424.20 |
| EF0.04 | 8.80 | 1.66 | 3.22% | 10.14% | 67.05% | 864.34 |
| EF0.05 | 8.80 | 0.72 | 10.79% | 3.10% | 59.62% | 1730.11 |
| EF0.06 | 8.80 | 1.26 | 6.43% | 6.51% | 64.14% | 659.41 |
| EF0.07 | 8.88 | 2.51 | 5.05% | 10.86% | 66.55% | 971.46 |
| EF0.08 | 8.14 | 0.65 | 13.59% | 2.89% | 56.73% | 760.07 |
| EF0.09 | 8.14 | 0.34 | 11.40% | 2.30% | 57.09% | 1580.60 |
| EF0.10 | 8.14 | 1.27 | 5.97% | 8.67% | 64.10% | 1146.17 |
| EF0.11 | 8.14 | 1.70 | 2.19% | 14.10% | 67.47% | 1270.04 |
| EF0.12 | 9.03 | 5.78 | 2.08% | 20.96% | 70.23% | 1054.14 |
| EF0.14 | 9.16 | 6.17 | 3.45% | 18.86% | 69.40% | 210.02 |
| EF0.15 | 9.16 | 6.31 | 3.63% | 18.83% | 69.32% | 288.03 |
| EF0.17 | 9.32 | 6.89 | 4.47% | 17.64% | 68.87% | 1031.48 |
| EF0.18 | 9.16 | 7.44 | 3.50% | 20.79% | 69.72% | 330.65 |
| EF1 | 9.59 | 7.77 | 6.44% | 14.84% | 67.58% | 575.95 |
| EF2.1 | 11.01 | 17.19 | 3.05% | 19.22% | 69.71% | 667.92 |
| EF2.2 | 11.42 | 17.74 | 2.71% | 17.74% | 69.14% | 1753.33 |
| EF2.3 | 11.61 | 17.29 | 8.46% | 10.41% | 64.44% | 38.92 |
| EF2.4 | 11.58 | 17.32 | 6.03% | 12.83% | 66.32% | 224.14 |
| EF4.2 | 11.40 | 15.33 | 4.23% | 14.61% | 67.84% | 155.36 |
| EF4.3 | 11.40 | 15.26 | 4.62% | 14.13% | 67.55% | 338.07 |
| FC0.1 | 7.99 | 0.34 | 9.68% | 2.87% | 58.33% | 684.18 |
| FC0.2 | 7.99 | 0.69 | 6.22% | 6.13% | 62.52% | 1059.28 |
| FC0.3 | 8.15 | 1.01 | 9.86% | 5.35% | 60.65% | 366.19 |
| FC3 | 10.21 | 0.04 | 13.84% | 0.21% | 50.40% | 114.79 |

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| GC0 | 10.79 | 0.31 | 10.40% | 0.86% | 56.44% | 674.65 |
| GC1 | 10.79 | 0.37 | 9.61% | 1.05% | 57.47% | 72.70 |
| HL1 | 12.26 | 3.80 | 1.11% | 6.13% | 64.94% | 248.94 |
| HL2 | 12.12 | 6.49 | 0.44% | 9.48% | 66.93% | 693.79 |
| MC0.01 | 10.01 | 0.46 | 12.97% | 1.20% | 56.45% | 702.86 |
| MC0.02 | 10.01 | 0.85 | 6.33% | 3.28% | 62.96% | 401.53 |
| MC0.04 | 8.36 | 0.41 | 8.52% | 3.10% | 59.99% | 282.87 |
| MC0.06 | 8.36 | 1.02 | 9.00% | 5.36% | 61.52% | 744.87 |
| MC4.2 | 12.31 | 4.05 | 1.11% | 6.27% | 64.89% | 93.97 |
| MC5 | 12.12 | 6.49 | 0.44% | 9.48% | 66.93% | 76.20 |
| MC6 | 12.60 | 7.44 | 1.84% | 7.82% | 64.51% | 718.34 |

## EOY 12

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| BC0.1 | 9.57 | 0.85 | 4.49% | 4.52% | 64.69% | 1782.76 |
| BC1 | 9.57 | 1.58 | 1.56% | 8.61% | 68.04% | 614.87 |
| BC3 | 10.61 | 0.91 | 4.87% | 3.13% | 63.40% | 251.87 |
| EF0.01 | 8.81 | 0.32 | 7.23% | 2.51% | 60.73% | 1196.36 |
| EF0.02 | 8.81 | 0.63 | 8.61% | 3.43% | 61.05% | 2057.33 |
| EF0.03 | 8.81 | 1.06 | 5.05% | 6.57% | 64.84% | 424.20 |
| EF0.04 | 8.81 | 1.66 | 3.22% | 10.11% | 67.06% | 864.34 |
| EF0.05 | 8.81 | 0.72 | 10.79% | 3.08% | 59.62% | 1730.11 |
| EF0.06 | 8.81 | 1.26 | 6.43% | 6.49% | 64.14% | 659.41 |
| EF0.07 | 8.90 | 2.51 | 5.05% | 10.80% | 66.55% | 971.46 |
| EF0.08 | 8.16 | 0.65 | 13.59% | 2.86% | 56.75% | 760.07 |
| EF0.09 | 8.16 | 0.34 | 11.40% | 2.28% | 57.11% | 1580.60 |
| EF0.10 | 8.16 | 1.27 | 5.97% | 8.61% | 64.12% | 1146.17 |
| EF0.11 | 8.16 | 1.70 | 2.19% | 14.00% | 67.49% | 1270.04 |
| EF0.12 | 9.10 | 5.78 | 2.08% | 20.53% | 70.23% | 1054.14 |
| EF0.14 | 9.20 | 6.17 | 3.45% | 18.62% | 69.40% | 210.02 |
| EF0.15 | 9.20 | 6.31 | 3.63% | 18.59% | 69.32% | 288.03 |
| EF0.17 | 9.41 | 6.89 | 4.47% | 17.14% | 68.84% | 1031.48 |
| EF0.18 | 9.41 | 7.44 | 3.50% | 19.24% | 69.66% | 330.65 |
| EF1 | 9.72 | 7.97 | 6.44% | 14.43% | 67.55% | 575.95 |
| EF2.1 | 10.93 | 15.92 | 3.05% | 18.89% | 69.72% | 667.92 |
| EF2.2 | 11.34 | 16.43 | 2.71% | 17.42% | 69.18% | 1753.33 |
| EF2.3 | 11.59 | 16.46 | 8.46% | 10.16% | 64.39% | 38.92 |
| EF2.4 | 11.59 | 16.48 | 6.03% | 12.42% | 66.20% | 224.14 |
| EF2.5 | 11.59 | 16.48 | 8.21% | 10.38% | 64.58% | 94.62 |
| EF3.1 | 11.72 | 16.48 | 3.76% | 14.30% | 67.50% | 379.08 |
| EF3.2 | 11.89 | 16.48 | 3.76% | 13.56% | 67.03% | 446.33 |
| EF3.3 | 12.09 | 17.03 | 3.76% | 12.98% | 66.49% | 579.47 |
| EF4.1 | 12.09 | 15.31 | 2.59% | 13.40% | 67.13% | 156.65 |
| EF4.2 | 12.09 | 17.91 | 4.23% | 12.87% | 66.24% | 155.91 |
| EF4.3 | 12.22 | 17.86 | 4.62% | 11.95% | 65.54% | 338.07 |
| FC0 | 10.04 | 1.08 | 11.42% | 2.39% | 59.46% | 53.54 |
| FC0.1 | 7.99 | 0.34 | 9.68% | 2.87% | 58.33% | 684.18 |

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| FC0.2 | 7.99 | 0.69 | 6.22% | 6.13% | 62.52% | 1059.28 |
| FC0.3 | 8.19 | 1.01 | 9.86% | 5.27% | 60.69% | 366.19 |
| FC1 | 10.04 | 1.08 | 0.65% | 6.23% | 67.61% | 1785.76 |
| GC0 | 10.75 | 0.31 | 10.40% | 0.87% | 56.52% | 674.65 |
| GC1 | 10.75 | 0.37 | 9.61% | 1.06% | 57.53% | 72.70 |
| HC1.2 | 10.49 | 0.55 | 3.76% | 2.61% | 63.42% | 359.10 |
| HL1 | 12.25 | 4.08 | 1.11% | 6.43% | 65.12% | 248.94 |
| HL2 | 12.02 | 4.99 | 0.44% | 8.34% | 66.73% | 693.79 |
| MC0.01 | 9.78 | 0.46 | 12.97% | 1.31% | 56.67% | 702.86 |
| MC0.02 | 9.78 | 0.85 | 6.33% | 3.57% | 63.17% | 401.53 |
| MC0.04 | 8.36 | 0.41 | 8.52% | 3.10% | 59.99% | 282.87 |
| MC0.06 | 8.36 | 1.02 | 9.00% | 5.36% | 61.52% | 744.87 |
| MC4.2 | 12.31 | 4.27 | 1.11% | 6.48% | 64.99% | 93.97 |
| MC5 | 12.02 | 4.99 | 0.44% | 8.34% | 66.73% | 76.20 |
| MC6 | 12.52 | 4.44 | 1.84% | 5.82% | 63.79% | 718.34 |
| MN1 | 11.42 | 0.25 | 8.55% | 0.71% | 56.03% | 142.61 |
| MN2 | 11.42 | 0.25 | 3.76% | 1.10% | 59.85% | 271.85 |

## EOY 18

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| BC0.1 | 9.00 | 0.85 | 4.49% | 5.58% | 64.83% | 1782.76 |
| BC1 | 10.31 | 1.77 | 1.56% | 7.12% | 67.59% | 615.69 |
| BC2 | 11.41 | 1.93 | 14.04% | 1.67% | 56.02% | 468.29 |
| BC2.1 | 11.41 | 2.11 | 8.06% | 3.04% | 60.96% | 344.88 |
| BC3 | 12.15 | 2.25 | 4.87% | 3.26% | 61.38% | 251.87 |
| EF0.01 | 8.80 | 0.32 | 7.23% | 2.52% | 60.73% | 1196.36 |
| EF0.02 | 8.80 | 0.63 | 8.61% | 3.44% | 61.04% | 2057.33 |
| EF0.03 | 8.80 | 1.06 | 5.05% | 6.60% | 64.84% | 424.20 |
| EF0.04 | 8.80 | 1.66 | 3.22% | 10.14% | 67.05% | 864.34 |
| EF0.05 | 8.80 | 0.72 | 10.79% | 3.10% | 59.62% | 1730.11 |
| EF0.06 | 8.80 | 1.26 | 6.43% | 6.51% | 64.14% | 659.41 |
| EF0.07 | 8.89 | 2.51 | 5.05% | 10.82% | 66.55% | 971.46 |
| EF0.08 | 8.18 | 0.65 | 13.59% | 2.84% | 56.77% | 760.07 |
| EF0.09 | 8.18 | 0.34 | 11.40% | 2.26% | 57.13% | 1580.60 |
| EF0.10 | 8.18 | 1.27 | 5.97% | 8.54% | 64.14% | 1146.17 |
| EF0.11 | 8.18 | 1.70 | 2.19% | 13.91% | 67.50% | 1270.04 |
| EF0.12 | 9.01 | 5.78 | 2.08% | 21.09% | 70.23% | 1054.14 |
| EF0.14 | 9.12 | 6.17 | 3.45% | 19.10% | 69.41% | 210.02 |
| EF0.15 | 9.12 | 6.31 | 3.63% | 19.07% | 69.32% | 288.03 |
| EF0.17 | 9.29 | 6.89 | 4.47% | 17.81% | 68.88% | 1031.48 |
| EF0.18 | 9.29 | 7.44 | 3.50% | 19.97% | 69.70% | 330.65 |
| EF1 | 9.62 | 7.56 | 6.44% | 14.46% | 67.51% | 575.95 |
| EF2.1 | 12.16 | 13.09 | 3.05% | 11.51% | 66.27% | 667.92 |
| EF2.2 | 12.63 | 13.51 | 2.71% | 10.39% | 64.96% | 1753.33 |
| EF2.3 | 12.70 | 14.55 | 8.46% | 6.53% | 60.43% | 38.92 |
| EF2.4 | 12.70 | 14.57 | 6.03% | 8.05% | 62.32% | 224.14 |
| EF2.5 | 12.81 | 14.58 | 8.21% | 6.44% | 60.18% | 94.62 |
| EF3.1 | 12.81 | 14.58 | 3.76% | 9.41% | 63.62% | 379.08 |
| EF3.2 | 12.95 | 15.50 | 3.76% | 9.34% | 63.17% | 446.33 |
| EF3.3 | 13.07 | 16.21 | 3.76% | 9.24% | 62.75% | 579.47 |
| EF4.1 | 13.07 | 16.77 | 2.59% | 10.40% | 63.71% | 156.65 |
| EF4.2 | 13.07 | 17.75 | 4.23% | 9.39% | 62.58% | 155.91 |
| EF4.3 | 13.18 | 18.11 | 4.62% | 8.89% | 61.84% | 338.07 |

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| FC0 | 8.20 | 1.08 | 11.42% | 4.78% | 59.62% | 53.54 |
| FC0.1 | 8.00 | 0.34 | 9.68% | 2.86% | 58.34% | 684.18 |
| FC0.2 | 8.00 | 0.69 | 6.22% | 6.11% | 62.53% | 1059.28 |
| FC0.3 | 8.20 | 1.01 | 9.86% | 5.25% | 60.70% | 366.19 |
| FC1 | 10.12 | 1.08 | 0.65% | 6.06% | 67.53% | 1785.76 |
| FC3 | 11.47 | 1.50 | 13.84% | 1.41% | 55.49% | 114.79 |
| GC0 | 10.04 | 0.31 | 10.40% | 1.14% | 57.60% | 674.77 |
| GC1 | 11.82 | 0.37 | 1.05% | 1.57% | 61.63% | 85.39 |
| HC1.2 | 10.52 | 0.69 | 3.76% | 2.99% | 63.83% | 359.10 |
| MC0.01 | 10.32 | 0.46 | 12.97% | 1.07% | 56.06% | 702.86 |
| MC0.02 | 10.32 | 0.85 | 6.33% | 2.92% | 62.59% | 401.53 |
| MC0.04 | 8.25 | 0.41 | 8.52% | 3.23% | 59.90% | 282.87 |
| MC0.06 | 8.25 | 1.02 | 9.00% | 5.59% | 61.43% | 744.87 |
| MC0.7 | 9.05 | 0.49 | 14.71% | 1.53% | 55.70% | 104.93 |
| MC0.9 | 10.32 | 1.03 | 4.56% | 3.87% | 64.32% | 490.77 |
| MC1.1 | 12.33 | 1.03 | 0.53% | 2.72% | 62.49% | 1700.96 |
| MC1.2 | 10.83 | 0.49 | 0.91% | 2.75% | 64.75% | 862.27 |
| MC1.3 | 10.31 | 1.21 | 0.88% | 5.97% | 67.36% | 925.57 |
| MC1.31 | 10.31 | 1.21 | 0.30% | 6.27% | 67.77% | 206.87 |
| MC1.4 | 12.87 | 1.52 | 0.18% | 3.00% | 61.49% | 914.63 |
| MC1.5 | 13.00 | 2.74 | 0.11% | 4.23% | 62.21% | 1269.00 |
| MC2 | 13.67 | 2.74 | 0.63% | 3.22% | 58.64% | 640.04 |
| MC4.1 | 14.35 | 0.74 | 1.58% | 1.00% | 51.22% | 760.98 |
| MC4.2 | 14.35 | 0.66 | 1.58% | 0.92% | 50.96% | 93.97 |
| MC4.2 | 14.35 | 0.66 | 1.58% | 0.92% | 50.96% | 105.23 |
| MC5 | 16.97 | 2.87 | 0.44% | 1.17% | 35.63% | 76.20 |
| MC5 | 16.97 | 2.87 | 0.44% | 1.17% | 35.63% | 142.46 |
| MC6 | 16.30 | 5.72 | 1.84% | 2.00% | 41.50% | 718.34 |
| MN1 | 9.49 | 0.68 | 8.55% | 2.81% | 61.18% | 142.61 |
| MN2 | 12.40 | 0.68 | 3.76% | 1.50% | 58.85% | 271.85 |

## EOY 112

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| BC0.1 | 9.10 | 0.85 | 4.49% | 5.38% | 64.83% | 1782.76 |
| BC1 | 10.26 | 1.78 | 1.56% | 7.27% | 67.66% | 615.69 |
| BC2 | 10.99 | 1.77 | 14.04% | 1.84% | 56.86% | 468.29 |
| BC2.1 | 10.99 | 1.69 | 8.06% | 3.06% | 61.49% | 344.88 |
| BC3 | 11.40 | 1.55 | 4.87% | 3.33% | 62.82% | 251.87 |
| EF0.01 | 8.79 | 0.32 | 7.23% | 2.53% | 60.73% | 1196.36 |
| EF0.02 | 8.79 | 0.63 | 8.61% | 3.45% | 61.04% | 2057.33 |
| EF0.03 | 8.79 | 1.06 | 5.05% | 6.62% | 64.83% | 424.20 |
| EF0.04 | 8.79 | 1.66 | 3.22% | 10.18% | 67.05% | 864.34 |
| EF0.05 | 8.79 | 0.72 | 10.79% | 3.11% | 59.62% | 1730.11 |
| EF0.06 | 8.79 | 1.26 | 6.43% | 6.54% | 64.14% | 659.41 |
| EF0.07 | 8.87 | 2.51 | 5.05% | 10.91% | 66.54% | 971.46 |
| EF0.08 | 8.15 | 0.65 | 13.59% | 2.88% | 56.74% | 760.07 |
| EF0.09 | 8.15 | 0.34 | 11.40% | 2.29% | 57.10% | 1580.60 |
| EF0.10 | 8.15 | 1.27 | 5.97% | 8.64% | 64.11% | 1146.17 |
| EF0.11 | 8.15 | 1.70 | 2.19% | 14.05% | 67.48% | 1270.04 |
| EF0.12 | 8.96 | 5.78 | 2.08% | 21.44% | 70.23% | 1054.14 |
| EF0.14 | 9.06 | 6.17 | 3.45% | 19.46% | 69.41% | 210.02 |
| EF0.15 | 9.06 | 6.31 | 3.63% | 19.43% | 69.33% | 288.03 |
| EF0.17 | 9.21 | 6.89 | 4.47% | 18.27% | 68.90% | 1031.48 |
| EF0.18 | 9.21 | 7.44 | 3.50% | 20.47% | 69.71% | 330.65 |
| EF1 | 9.47 | 7.59 | 6.44% | 15.23% | 67.60% | 575.95 |
| EF2.1 | 11.94 | 15.28 | 3.05% | 13.52% | 67.25% | 667.92 |
| EF2.2 | 12.28 | 15.77 | 2.71% | 12.72% | 66.50% | 1753.33 |
| EF2.3 | 12.20 | 16.82 | 8.46% | 8.43% | 62.59% | 38.92 |
| EF2.4 | 12.20 | 16.84 | 6.03% | 10.34% | 64.43% | 224.14 |
| EF2.5 | 12.28 | 16.86 | 8.21% | 8.39% | 62.51% | 94.62 |
| EF3.1 | 12.28 | 16.86 | 3.76% | 12.15% | 65.86% | 379.08 |
| EF3.2 | 12.34 | 17.51 | 3.76% | 12.20% | 65.73% | 446.33 |
| EF3.3 | 12.42 | 18.17 | 3.76% | 12.16% | 65.52% | 579.47 |
| EF4.1 | 12.42 | 18.88 | 2.59% | 13.67% | 66.46% | 156.65 |
| EF4.2 | 12.42 | 19.62 | 4.23% | 12.25% | 65.33% | 155.91 |
| EF4.3 | 12.52 | 19.87 | 4.62% | 11.59% | 64.71% | 338.07 |

| Reach | Stream Temperature (°C) | Stream Discharge (CFS) | Slope (%) | Bull Trout Occupancy Probability (%) | Westslope Cutthroat Trout Occupancy Probability (%) | Reach Length (m) |
|---|---|---|---|---|---|---|
| FC0 | 8.19 | 1.08 | 11.42% | 4.80% | 59.61% | 53.54 |
| FC0.1 | 7.99 | 0.34 | 9.68% | 2.87% | 58.33% | 684.18 |
| FC0.2 | 7.99 | 0.69 | 6.22% | 6.13% | 62.52% | 1059.28 |
| FC0.3 | 8.19 | 1.01 | 9.86% | 5.27% | 60.69% | 366.19 |
| FC1 | 9.50 | 1.08 | 0.65% | 7.56% | 68.00% | 1785.76 |
| FC3 | 10.42 | 1.61 | 13.84% | 2.17% | 57.88% | 114.79 |
| GC0 | 10.46 | 0.31 | 10.40% | 0.98% | 57.06% | 674.77 |
| GC1 | 10.57 | 0.37 | 1.05% | 2.46% | 64.50% | 85.39 |
| HC1.2 | 9.85 | 0.71 | 3.76% | 3.89% | 64.69% | 359.10 |
| MC0.01 | 10.38 | 0.46 | 12.97% | 1.04% | 55.97% | 702.86 |
| MC0.02 | 10.38 | 0.85 | 6.33% | 2.86% | 62.50% | 401.53 |
| MC0.04 | 8.25 | 0.41 | 8.52% | 3.23% | 59.90% | 282.87 |
| MC0.06 | 8.25 | 1.02 | 9.00% | 5.59% | 61.43% | 744.87 |
| MC0.7 | 9.05 | 0.49 | 14.71% | 1.53% | 55.70% | 104.93 |
| MC0.9 | 10.38 | 1.03 | 4.56% | 3.79% | 64.23% | 490.77 |
| MC1.1 | 11.43 | 1.03 | 0.53% | 3.73% | 65.20% | 1700.96 |
| MC1.2 | 10.10 | 0.49 | 0.91% | 3.59% | 65.83% | 862.27 |
| MC1.3 | 9.65 | 1.17 | 0.88% | 7.39% | 67.92% | 925.57 |
| MC1.31 | 9.65 | 1.17 | 0.30% | 7.76% | 68.33% | 206.87 |
| MC1.4 | 11.53 | 1.52 | 0.18% | 4.77% | 65.97% | 914.63 |
| MC1.5 | 11.68 | 2.62 | 0.11% | 6.43% | 66.69% | 1269.00 |
| MC2 | 12.10 | 2.62 | 0.63% | 5.32% | 65.07% | 640.04 |
| MC4.1 | 12.39 | 6.65 | 1.58% | 8.00% | 65.25% | 760.98 |
| MC4.2 | 12.39 | 6.14 | 1.58% | 7.62% | 65.10% | 93.97 |
| MC4.2 | 12.39 | 6.14 | 1.58% | 7.62% | 65.10% | 105.23 |
| MC5 | 16.88 | 7.70 | 0.44% | 2.31% | 38.40% | 76.20 |
| MC5 | 16.88 | 7.70 | 0.44% | 2.31% | 38.40% | 142.46 |
| MC6 | 16.16 | 7.97 | 1.84% | 2.60% | 43.34% | 718.34 |
| MN1 | 9.15 | 0.64 | 8.55% | 3.07% | 61.15% | 142.61 |
| MN2 | 10.79 | 0.64 | 3.76% | 2.57% | 63.20% | 271.85 |

# HABITAT OCCUPANCY MODEL
# WESTSLOPE CUTTHROAT TROUT
# AND
# BULL TROUT
# ALTERNATIVES 2 AND 3

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

Ecosystem Sciences

Science · Planning · Design

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Prepared for: AECOM

Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Habitat Occupancy Model for Westslope Cutthroat Trout and Bull Trout Alternatives 2 and 3

Date: November 25, 2019

To: AECOM

From: Ecosystem Sciences

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# 1.0 INTRODUCTION

A habitat occupancy model for westslope cutthroat trout (*Onchorhynchus clarkia lewisi*) and bull trout (*Salvelinus confluentus*) was developed for the Stibnite Gold mine site study area, located in the headwaters of the Upper East Fork South Fork of the Salmon River (EFSFSR) watershed. Following the same methodology and criteria used to develop the Existing Conditions (Baseline) Occupancy Model (Ecosystem Sciences 2019a) and the Proposed Action (PA) Occupancy Model (Ecosystem Sciences 2019b), the Alternative 2 (modified PRO) and Alternative 3 (Upper EFSFSR Tailings Storage Facility [TSF]) occupancy models use physical characteristics of stream reaches to estimate the probability that the two native trout species would occupy habitat in the study area (as defined in Section 2) given the different actions that are proposed under Alternative 2 and Alternative 3. Alternative 2 and Alternative 3 are defined by two separate reports dated June and May 2019, respectively (Midas Gold 2019a,b).

The mine life is defined as 2 years before mining activities would commence (mine year -2) and lasting for the 20 years that mining operations and reclamation are scheduled to occur. By year 20, all streams are proposed to be re-created or enhanced in their permanent location. The years that are modeled for Alternative 2 and Alternative 3 are identical to those years modeled in the proposed action (Alternative 1). The Occupancy Model (OM) was run for 3 years that are representative of various conditions throughout the life of the mine. The selected model runs are end-of-year (EOY) 6, EOY 12, and EOY 18. One year was selected to represent the post-mine period (EOY 112). Results from the Alternative 2 and Alternative 3 OM are compared to existing conditions OM results, as reported in a separate technical memorandum titled, “Existing Conditions (Baseline) Occupancy Model Technical Memorandum” (Ecosystem Sciences 2019).

The model calculates occupancy probabilities for each of the two native trout species based on the combination of three independent variables—stream discharge, stream temperature, and channel slope. The resulting occupancy probabilities were run through a sensitivity analysis, which was utilized to determine the level of influence that each of the model’s independent variables had on the model’s dependent variable (occupancy probability). See the Existing Conditions (Baseline) Occupancy Model Technical Memorandum for details about and results from the sensitivity analysis. The continuous range of occupancy probabilities are represented in percentages, from 0 to 100 percent for each reach. This modeling effort provides a quantitative measure from which to gauge how proposed actions from Alternative 2 and Alternative 3 affect habitat for native bull trout and westslope cutthroat trout within the mine site study area.

Section 2 provides detail about the geographic extent of the study area. Section 3 of this document explains the methods that were used to produce the Alternative 2 and 3 OM probabilities. Any variations from the methods that were used in the Existing Conditions (Baseline) Habitat Occupancy Model Technical Memorandum (Ecosystem Sciences 2019) are included in Section 3. Section 4 presents the resulting occupancy probabilities and habitat availability from the Alternative 2 and 3 OM for EOY 6, EOY 12, EOY 18, and EOY112. Lastly, the results are summarized in Section 5.

# 2.0 STUDY AREA

The Alternative 2 and Alternative 3 OM study area matches the Baseline and Proposed Action OM study areas. The mine site OM study area encompasses approximately 43 square miles of the headwaters of the EFSFSR. The headwaters of the EFSFSR (HUC 12 - 170602080201)

contains the SFA reaches or mine site impact areas, while Sugar Creek (HUC 12- 1706020803) is not in the OM study area (**Figure 1**). Occupancy probabilities are summarized for four mine site stream segments in the study area. These include: Stream Segment 1 (Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek); Stream Segment 2 (Meadow Creek drainage area, including the East Fork Meadow Creek); Stream Segment 3 (Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek); and Stream Segment 5 (HUC 12 "Headwaters East Fork South Fork Salmon River" or the summation of Stream Segments 1, 2 and 3). In total, there are six mine site stream segments (**Appendix A** defines each stream segment along with a map showing their respective spatial extent).

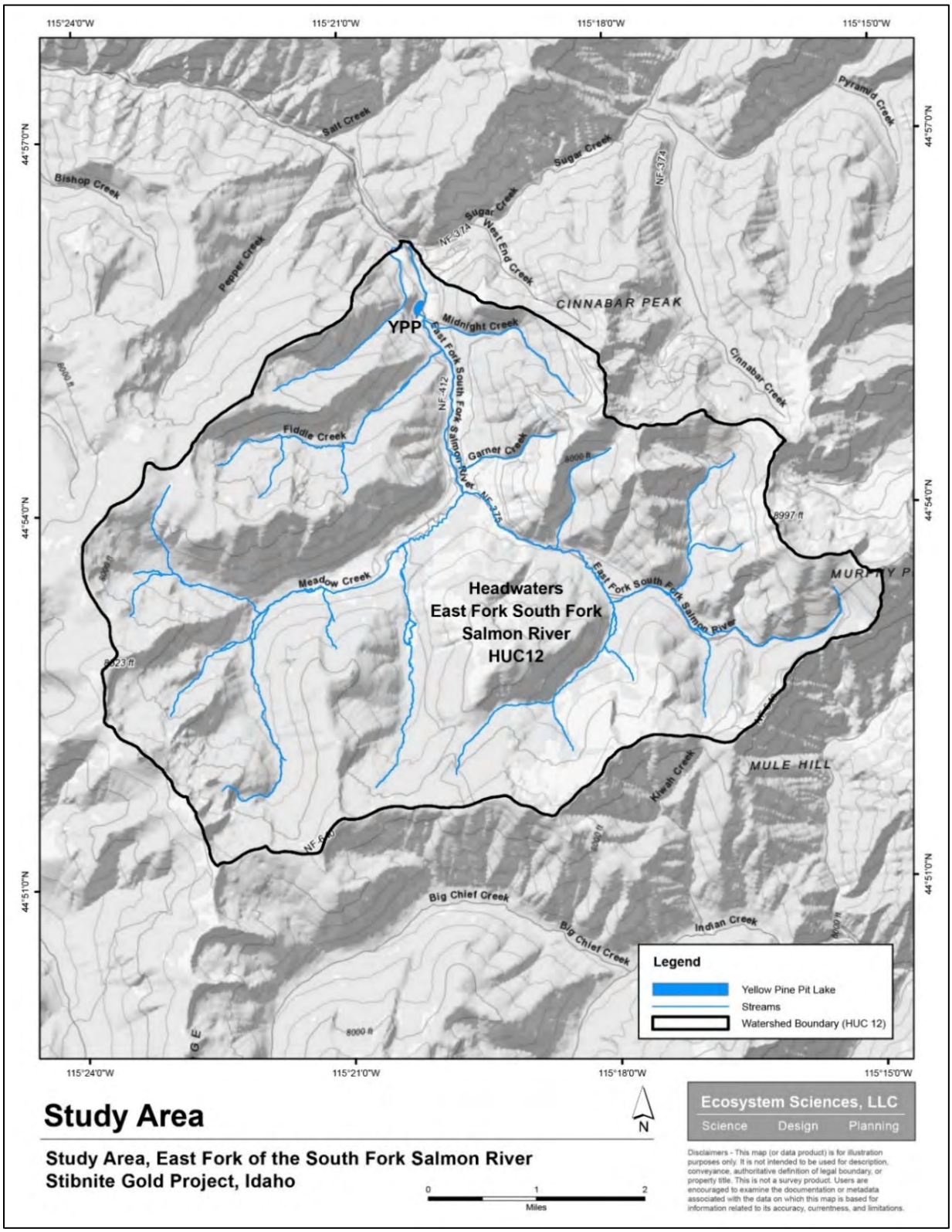



**Figure 1. Alternative 2 and Alternative 3 Mine Site OM Study Area (Stream Segment 5) for Westslope Cutthroat Trout and Bull Trout**

# 3.0 METHODS

Similar to the Existing Conditions and Proposed Action OM, the Alternative 2 and Alternative 3 OM approach is based on the existing regional OM methodologies from Isaak et al. 2015 and Isaak et al. 2017 (see Existing Conditions [Baseline] Occupancy Model Technical Memorandum). Methods from Isaak et. al. 2017 are adapted to the mine site study area through the use of higher resolution data inputs (a LiDAR-derived Digital Elevation Model and reach-based modeled stream temperature [SPLNT] and stream discharge data).

The data inputs were attributed to Alternative 2 and Alternative 3 stream reach configurations for EOY 6, EOY 12, EOY 18, and EOY 112. Each configuration was a combination of reaches defined by the Stream Functional Assessment (SFA) (Rio ASE 2019a) and NHD Plus Version 2 hydrography (Horizon Systems Corporation 2019) representing unaffected headwater reaches. Rio ASE provided modeled stream discharge data and slope data associated with enhanced and restored reaches (Rio ASE 2019b); Rio ASE also provided modeled stream temperature data for most reaches (Rio ASE 2019b). Two steps from Isaak et al. 2015 were included—reaches with stream discharges below 0.2 cubic feet per second (cfs) and channel slopes above 15 percent were trimmed from the Alternative 2 and 3 OM model. Diversion channels were also eliminated from the modeled stream network as they do not provide fish habitat. The workflow of methods used in the Alternative 2 and Alternative 3 mine site OM model is detailed in **Figure 2**.

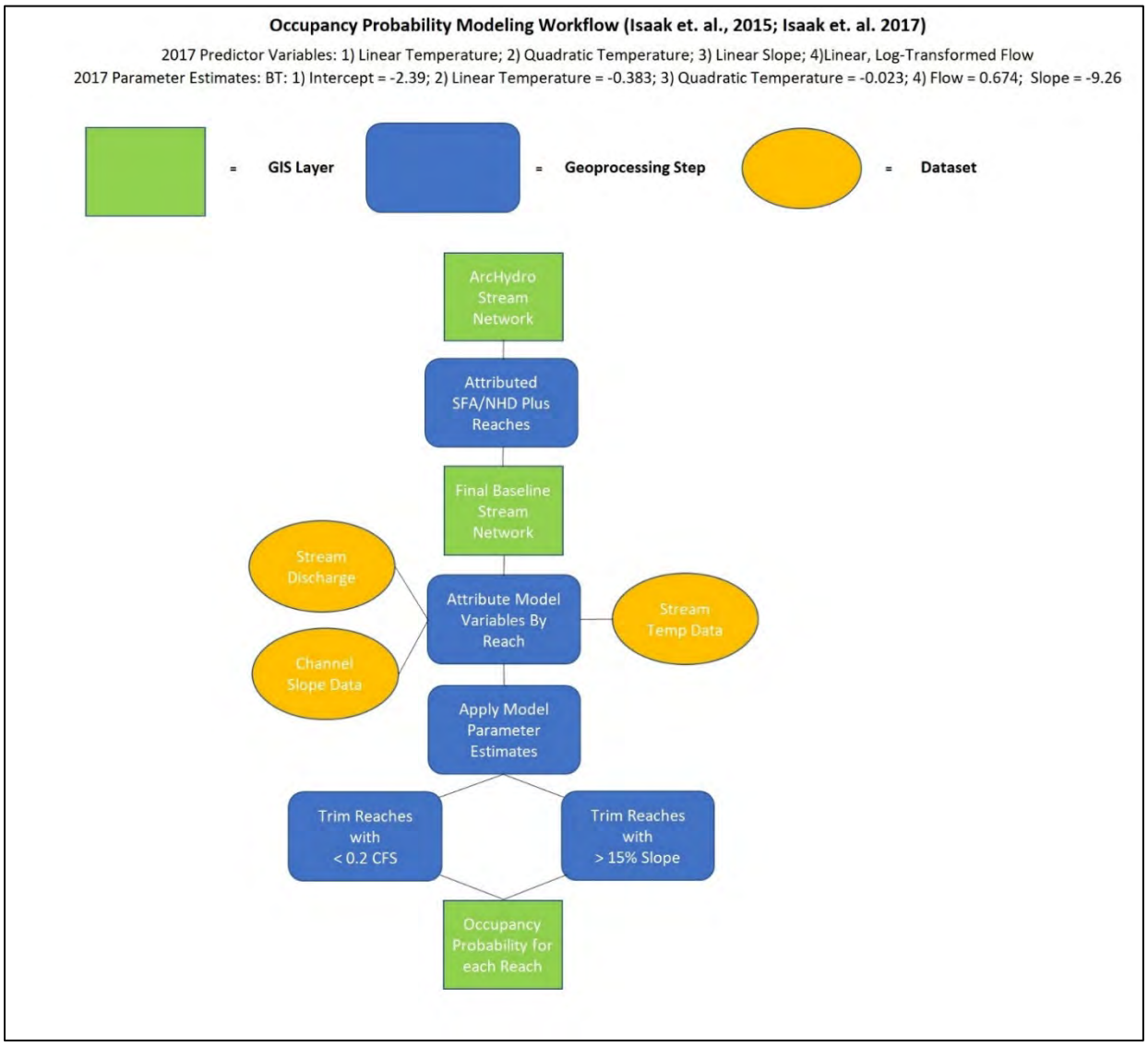



**Figure 2. Mine Site OM Workflow for Westslope Cutthroat Trout and Bull Trout**

The model input variables, their units of measurement, their temporal and spatial resolutions, and the sources of each dataset used in the mine site OM are detailed in **Table 1.**

**Table 1. Mine Site OM Variable Metadata**

| | Stream Temperature | Stream Flow | Channel Slope |
|---|---|---|---|
| Unit of Measurement | Mean Stream Temperature (°C) | Mean Stream Discharge (cfs) | Slope (%) |
| Temporal Resolution | August (Period of Record) | July 16-Sept. 30 (Period of Record) | N/A |
| Spatial Resolution | Mine Site OM Reach Domain Scale | Mine Site OM Reach Domain Scale | Mine Site OM Reach Domain Scale |
| Data Source | Rio ASE (Rio ASE, 2019b) | Rio ASE (Rio ASE, 2019b) | Ecosystem Sciences and Rio ASE (Rio ASE, 2019b) |

Descriptive statistics about each of the OM variable datasets for EOY 6, EOY 12, EOY 18, and EOY 112 (including existing conditions) for Alternative 2 and Alternative 3 are presented in **Table 2** through **Table 7**.

**Table 2. Distribution of Stream Temperature for Alternative 2 OM Reaches**

| | Stream Temperature (°C) | | | | |
|---|---|---|---|---|---|
| | Baseline | EOY 6 | EOY 12 | EOY18 | EOY 112 |
| Min | 7.91 | 8.05 | 8.11 | 8.15 | 8.12 |
| Max | 11.77 | 11.36 | 12.04 | 14.23 | 13.46 |
| Median | 9.98 | 9.41 | 9.65 | 10.33 | 10.23 |
| Mean | 9.84 | 9.65 | 9.92 | 10.72 | 10.25 |
| SD | 1.22 | 1.08 | 1.24 | 1.82 | 2.44 |

**Table 3. Distribution of Stream Discharge for Alternative 2 OM Reaches**

| | Stream Discharge (CFS) | | | | |
|---|---|---|---|---|---|
| | Baseline | EOY 6 | EOY 12 | EOY18 | EOY 112 |
| Min | 0.31 | 0.23 | 0.09 | 0.23 | 0.23 |
| Max | 18.87 | 10.45 | 12.94 | 14.08 | 14.13 |
| Median | 1.60 | 1.85 | 1.24 | 1.11 | 1.19 |
| Mean | 4.98 | 3.06 | 2.83 | 2.59 | 2.77 |
| SD | 6.15 | 2.85 | 2.76 | 3.11 | 3.11 |

**Table 4. Distribution of Channel Slope for Alternative 2 OM Reaches**

| | Channel Slope (%) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 0.45 | 0.44 | 0.44 | 0.11 | 0.11 |
| Max | 33.14 | 13.84 | 32.49 | 32.49 | 32.49 |
| Median | 6.33 | 4.87 | 4.48 | 3.76 | 3.76 |
| Mean | 7.39 | 5.71 | 5.82 | 5.76 | 5.76 |
| SD | 6.08 | 3.75 | 5.34 | 5.84 | 5.84 |

**Table 5. Distribution of Stream Temperature for Alternative 3 OM Reaches**

| | Stream Temperature (°C) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 7.91 | 7.96 | 7.96 | 9.32 | 9.32 |
| Max | 11.77 | 12.34 | 12.31 | 11.47 | 11.48 |
| Median | 9.98 | 10.65 | 10.63 | 11.47 | 11.48 |
| Mean | 9.84 | 10.59 | 10.42 | 11.18 | 11.18 |
| SD | 1.22 | 1.16 | 1.29 | 0.47 | 0.48 |

**Table 6. Distribution of Stream Discharge for Alternative 3 OM Reaches**

| | Stream Discharge (CFS) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 0.31 | 0.13 | 0.23 | 0.17 | 0.23 |
| Max | 18.87 | 12.27 | 11.76 | 13.95 | 14.01 |
| Median | 1.60 | 1.93 | 3.20 | 1.33 | 1.33 |
| Mean | 4.98 | 3.58 | 4.30 | 3.91 | 3.94 |
| SD | 6.15 | 3.84 | 4.50 | 4.78 | 4.82 |

**Table 7. Distribution of Channel Slope for Alternative 3 OM Reaches**

| | Channel Slope (%) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY18** | **EOY 112** |
| Min | 0.45 | 0.11 | 0.11 | 0.11 | 0.11 |
| Max | 33.14 | 23.99 | 32.49 | 32.49 | 32.49 |
| Median | 6.33 | 4.62 | 4.36 | 4.23 | 3.99 |
| Mean | 7.39 | 6.29 | 8.31 | 8.30 | 7.99 |
| SD | 6.08 | 5.61 | 15.30 | 5.84 | 5.84 |

There is a distinction between the methodologies used in the Alternative 2 and 3 OM and those used in the Baseline and Proposed Action OM. For the Baseline and Proposed Action OM, stream temperatures from each SPLNT reach were transferred to the final set of SFA reaches using a distance weighted average method (Ecosystem Sciences 2019a). The SFA reach-level stream temperature data inputs for the Alternative 2 and Alternative 3 OM were provided to Ecosystem Sciences by Rio ASE. This difference should be noted when interpreting the Alternative 2 and 3 OM results in two ways: 1) there may be slight differences in the resulting occupancy probabilities, given that the distance weighted averaging method was not used to transfer SPLNT stream temperature reach data to SFA reaches for Alternative 2 and 3; and 2) some SFA reaches that should have been included in the Alternative 2 and Alternative 3 OM may have been excluded because model variable data for some reaches were not present in the files provided by Rio ASE. Subsequent to the initial attribution of variable data to SFA reaches, a review of each model year configuration was done to reveal which SFA reaches had been excluded due to this methodological inconsistency. Any of the initially excluded reaches were then added using SPLNT reach stream temperatures from the appropriate alternative model runs, or channel slopes from either the existing condition or Alternative 1 modeling depending on the alternative and reaches in question. For example, Alternative 2 reaches that were missing channel slopes in stream segment 3 were attributed with data from the existing condition model because no changes were proposed to be made for those reaches.

For additional details on the final OM SFA reach network, each model variable, and the transformations performed on model variables see the Proposed Action (Alternative 1) Occupancy Model Technical Memorandum (Ecosystem Sciences 2019b).

# 4.0 RESULTS

Section 4 details the results of Alternative 2 and 3 occupancy models, respectively. Results are summarized for four mine site stream segments in the study area (Stream Segment 1, Stream Segment 2, Stream Segment 3, and Stream Segment 5) for EOY 6, EOY 12, EOY 18, and EOY 112.

A distance-weighted average occupancy probability was calculated for each stream segment. Distance-weighted averaging accounts for stream length by weighting each occupancy percentage proportionally to its reach length (i.e., longer reaches are weighted more than shorter reaches). The distance-weighted averages are presented for each of the four mine years that were modeled for westslope cutthroat trout and bull trout. The percent change in distance-weighted average occupancy probabilities between baseline conditions and each modeled mine

year are provided for the two native trout species. Lastly, the length of available habitat and percent change in length of available habitat for each model year for Alternative 2 and Alternative 3 are reported.

As described in the proposed action OM TM (Ecosystem Sciences 2019b), bull trout occupancy percentages and available habitat were computed for stream sections reconstructed on top of the TSF/DRSFs. However, based on the extent of known bull trout occupancy, bull trout may be extirpated from the reaches above the TSF/DRSFs when the reaches in the footprint would be dewatered and flow would be diverted into the diversions that route water around the facilities. With no evidence that bull trout occur in small headwater streams above the storage facilities, and the gradient barriers that would be created on the facility faces, there may be no mechanism by which bull trout would be able to recolonize the reaches on top of the TSF/DRSFs. However, these reaches meet the definitions of the OM modeling; therefore, their results are included below.

## 4.1 ALTERNATIVE 2 RESULTS

For Stream Segment 5, the OM estimates that occupancy probabilities for westslope cutthroat trout would be below the baseline condition occupancy probabilities for each modeled year (**Table 8** and **Figure 3**). Relative to all other model years, the decrease from baseline to EOY 18 is greatest. (**Table 9** and **Figure 4**). Occupancy probabilities for bull trout follow a similar trend—all model years are below the baseline condition with the lowest percentage coming from EOY 18 (**Tables 10** and **11; Figures 5** and **6**). For westslope cutthroat trout, the highest occupancy probabilities vary between each stream segment throughout the modeled years. For bull trout, Stream Segments 1 and 3 contain the highest occupancy probabilities.

**Table 8. Distance-weighted Average Occupancy Probabilities for Westslope Cutthroat Trout for each Stream Segment for Alternative 2**

| Westslope Cutthroat Trout | | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY 112** |
| Stream Segment 1 | 64.73% | 63.71% | 64.32% | 62.50% | 63.66% |
| Stream Segment 2 | 64.06% | 64.21% | 64.11% | 61.39% | 63.90% |
| Stream Segment 3 | 63.59% | 63.04% | 63.04% | 63.05% | 63.04% |
| Stream Segment 5 | 63.79% | 63.45% | 63.64% | 62.32% | 63.51% |

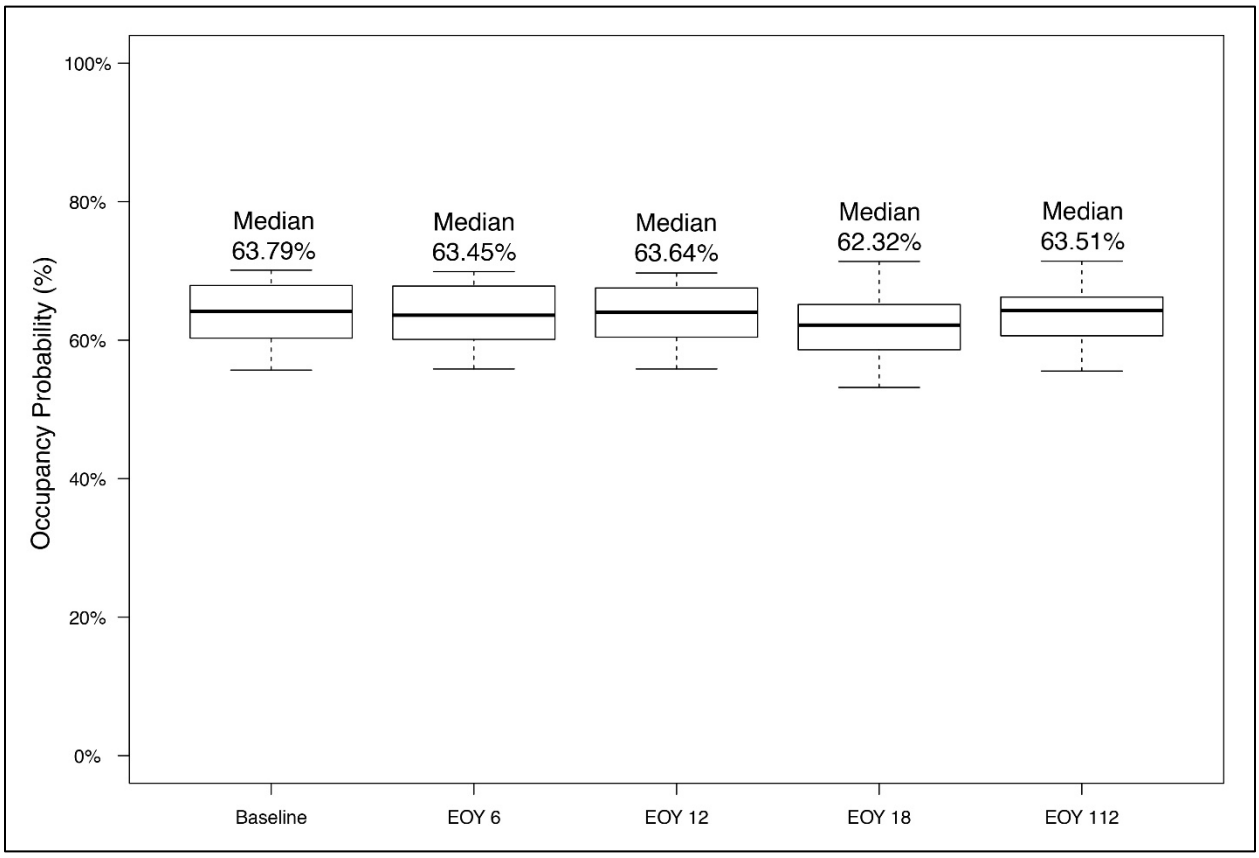



**Figure 3. Occupancy Probability Distributions for Westslope Cutthroat Trout for Stream Segment 5 for all Modeled Years for Alternative 2**

**Table 9. Percent Change in Distance-weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Westslope Cutthroat Trout for each Stream Segment for Alternative 2**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | -0.03% | 0.93% | -1.93% | -0.11% |
| Stream Segment 2 | 0.23% | 0.08% | -4.17% | -0.25% |
| Stream Segment 3 | -0.86% | -0.86% | -0.85% | -0.86% |
| Stream Segment 5 | -0.53% | -0.24% | -2.30% | -0.44% |

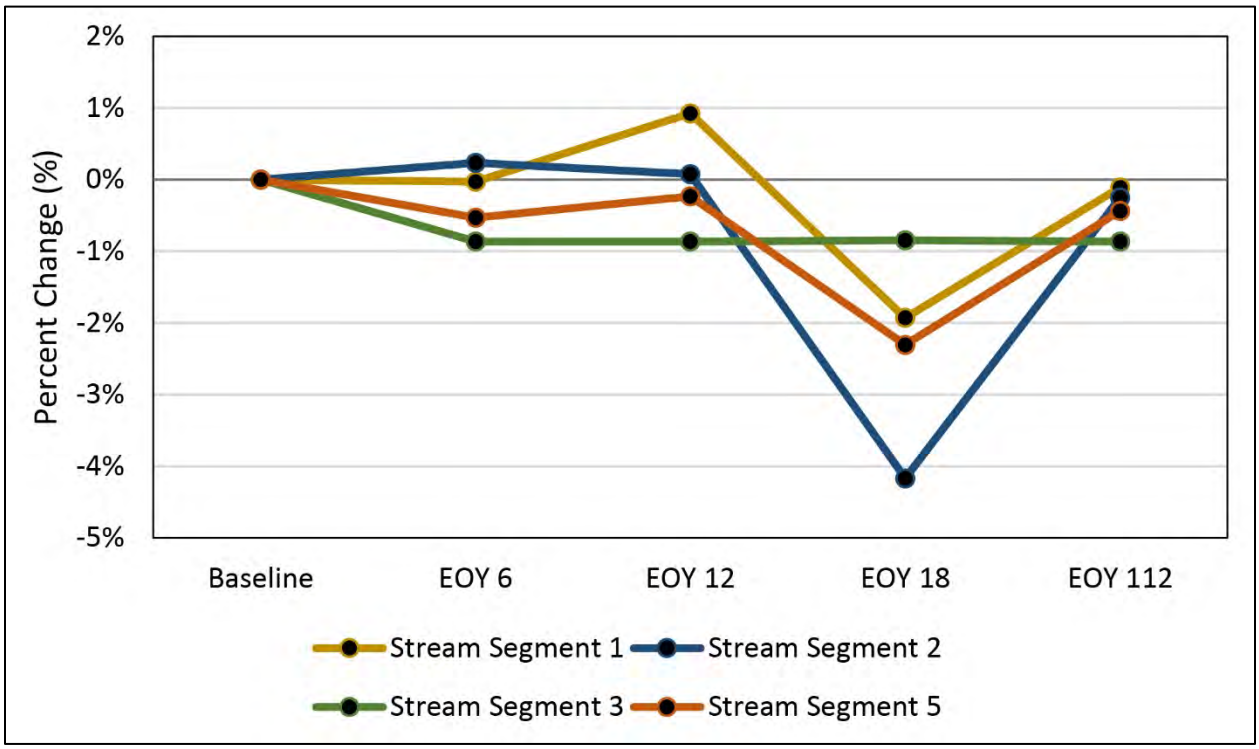



**Figure 4. Percent change in distance weighted average occupancy probabilities for westslope cutthroat trout for each stream segment for all modeled years for Alternative 2.**

**Table 10. Distance weighted average occupancy probabilities for bull trout for each stream segment for Alternative 2.**

| Bull Trout | | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | 9.51% | 7.42% | 6.59% | 5.83% | 6.56% |
| Stream Segment 2 | 6.27% | 5.93% | 5.66% | 3.12% | 4.37% |
| Stream Segment 3 | 9.34% | 7.33% | 7.31% | 7.25% | 7.40% |
| Stream Segment 5 | 8.31% | 7.04% | 6.76% | 5.42% | 6.11% |

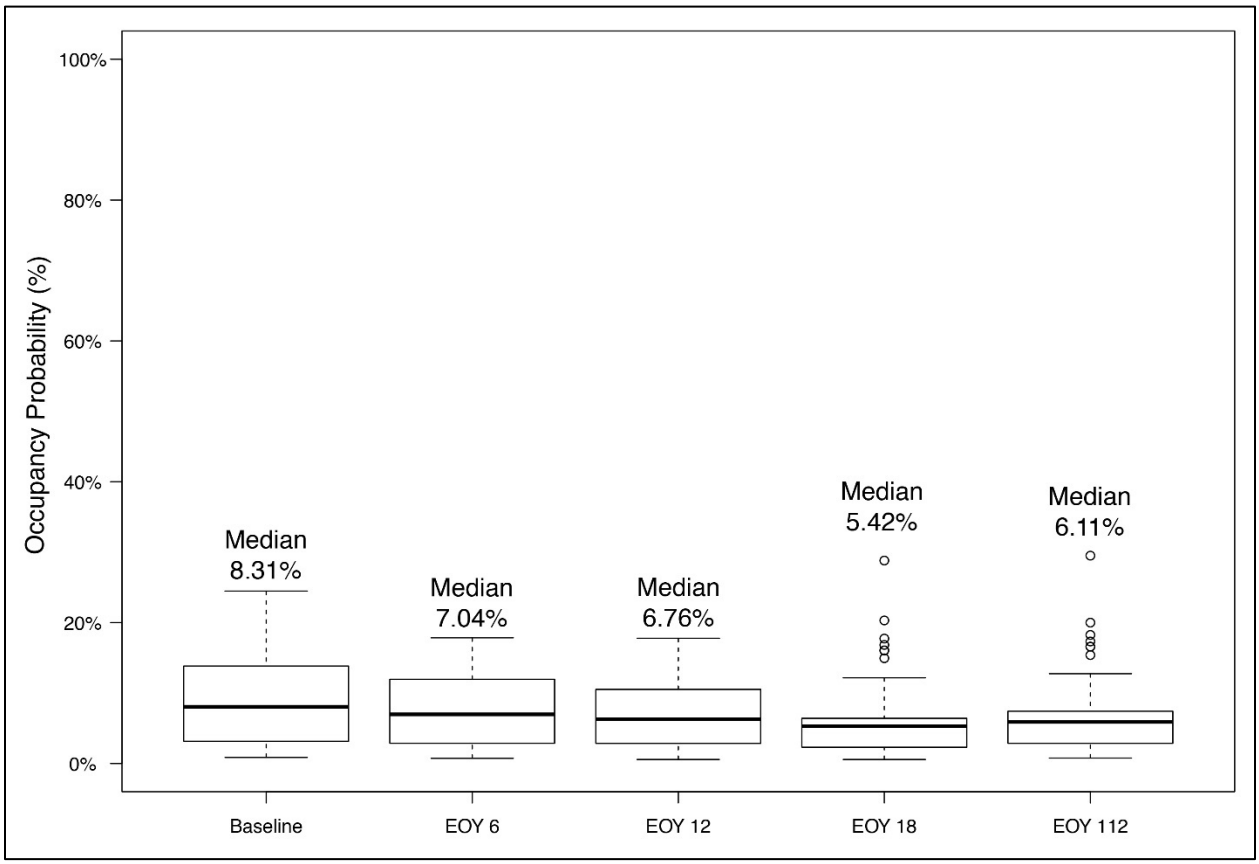



**Figure 5. Occupancy Probability Distributions for Bull Trout for Stream Segment 5 for all Modeled Years for Alternative 2**

**Table 11. Percent Change in Distance Weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Bull Trout for each Stream Segment for Alternative 2**

| Bull Trout | | | | |
|---|---|---|---|---|
| | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | -23.19% | -31.78% | -39.65% | -32.09% |
| Stream Segment 2 | -5.72% | -10.02% | -50.40% | -30.52% |
| Stream Segment 3 | -21.44% | -21.65% | -22.29% | -20.69% |
| Stream Segment 5 | -15.28% | -18.65% | -34.78% | -26.47% |

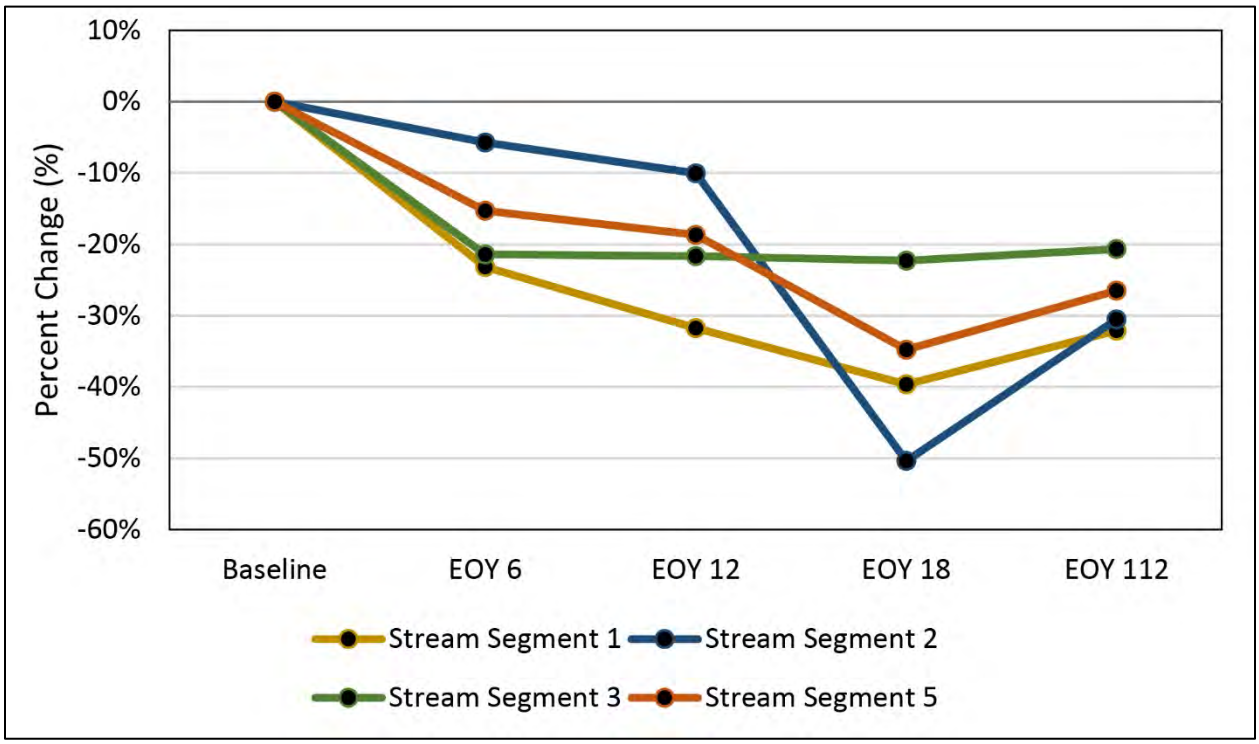



**Figure 6. Percent Change in Distance Weighted Average Occupancy Probabilities for Bull Trout for each Stream Segment for all Modeled Years for Alternative 2**

The length of available habitat for westslope cutthroat trout and bull trout would change throughout the mine life as channel configurations change and water is diverted into temporary conveyances. **Table 12** and **Figure 7** provide the length of available habitat for the two species for each modeled year for Alternative 2. Stream Segment 1 would lose 40.4 percent of its length of available habitat from baseline through EOY 6, while Stream Segment 2 would lose 57.4 percent of its length of available habitat from baseline through EOY 12 (**Table 13** and **Figure 8**). The length of available habitat would increase to slightly above the baseline extent by EOY 18 and beyond as reaches are re-created.

The stream discharge and channel slope restrictions are identical for both species, so the length of available habitat is reported as the same for both species. However, bull trout are known to occupy Upper Meadow Creek in the footprint of the TSF/DRSF. They are not known to exist above the TSF/DRSF footprint. Therefore, when the stream reaches in the footprint of the DRSF/TSF are dewatered and their flow directed into diversion channels, and then gradient barrier at the face of the DRSF is introduced, there would be no mechanism by which bull trout would be able to recolonize any future stream segments above the DRSF. In EOY 6 and EOY 12, when flow in Meadow Creek is diverted around the TSF/DRSF footprint, 2.13 kilometers of stream are classified as available habitat for bull trout based on the model parameters. Based on the discussion above, it is unlikely that bull trout will have access to these areas. In EOY 18 and EOY 112, the OM classifies 9.14 kilometers of stream above the TSF/DRSF footprint as available habitat for bull trout; this area would also not likely be accessible to bull trout.

**Table 12. Length of Available Habitat for Westslope Cutthroat Trout and Bull Trout for each Stream Segment within the Mine Site Study Area for Alternative 2**

| | Length of Available Habitat (km) | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | 10.45 | 6.23 | 10.00 | 10.92 | 10.92 |
| Stream Segment 2 | 15.10 | 6.44 | 6.44 | 14.72 | 14.72 |
| Stream Segment 3 | 16.16 | 16.16 | 16.16 | 16.16 | 16.16 |
| Stream Segment 5 | 41.70 | 28.83 | 32.60 | 41.80 | 41.80 |

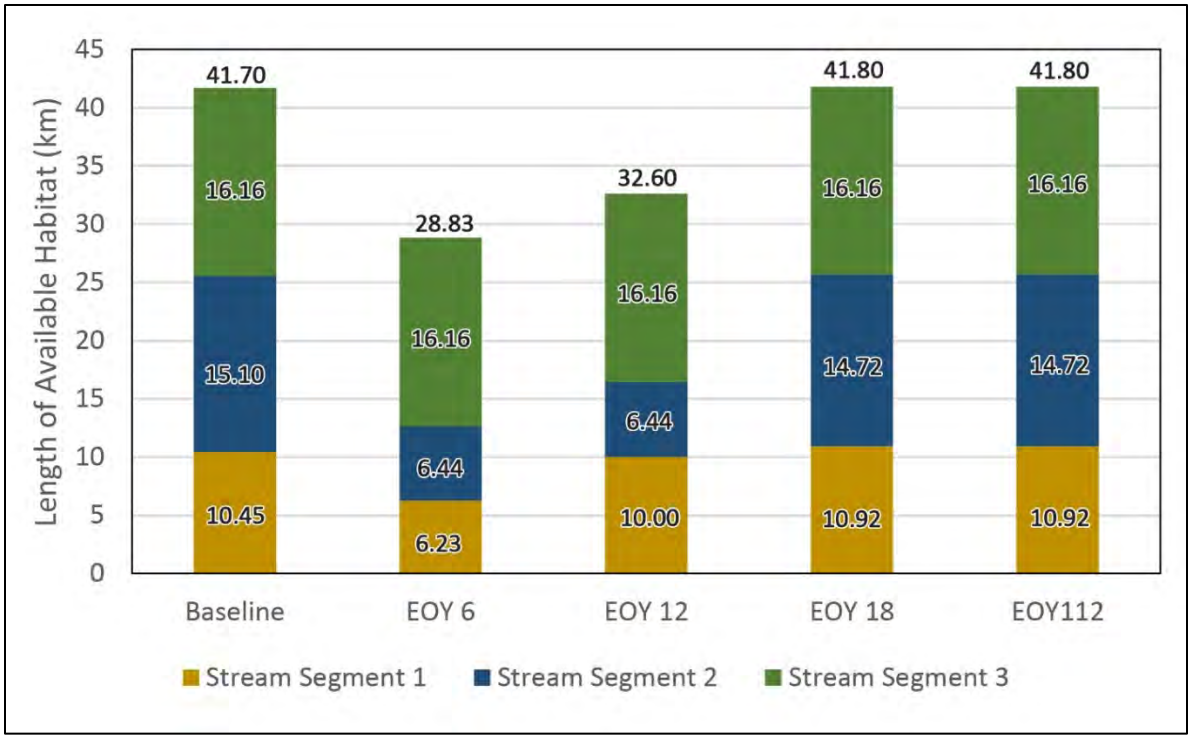



**Figure 7. Length of Available Habitat for Bull Trout and Westslope Cutthroat Trout for each Stream Segment for Existing Conditions and all Modeled Years for Alternative 2**

**Table 13. Percent Change in Length of Available Habitat from Existing Conditions to each Model Year for Bull Trout and Westslope Cutthroat Trout for each Stream Segment within the Mine Site Study Area for Alternative 2**

| | Percent Change in Length of Available Habitat (km) | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | -40.38% | -4.31% | 4.50% | 4.50% |
| Stream Segment 2 | -57.35% | -57.35% | -2.52% | -2.52% |
| Stream Segment 3 | 0.00% | 0.00% | 0.00% | 0.00% |
| Stream Segment 5 | -44.64% | -27.91% | 0.24% | 0.24% |

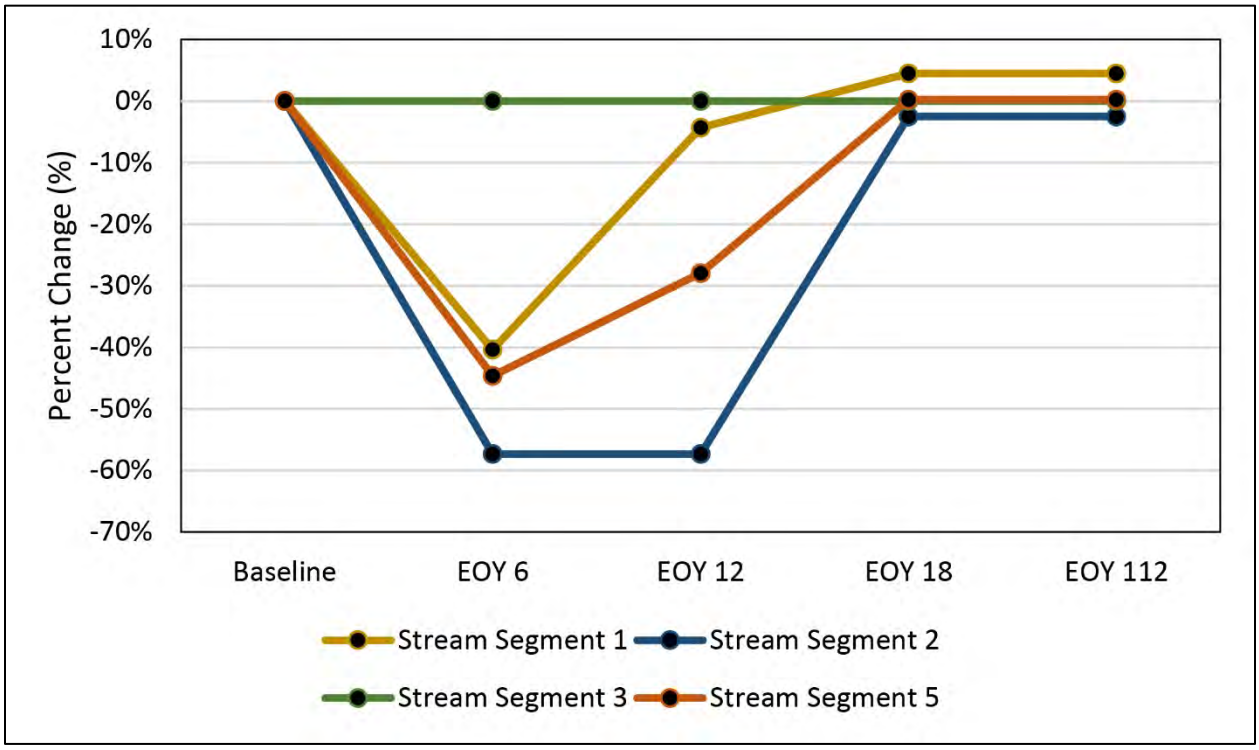



**Figure 8. Percent Change in Length of Available Habitat for each Stream Segment for all Modeled Years for Alternative 2**

## 4.2 ALTERNATIVE 3 RESULTS

For Alternative 3, the OM estimates that occupancy probabilities for all model years are lower than the baseline condition for both species (**Tables 14** through **17** and **Figures 9** through **12**). For westslope cutthroat trout, the highest occupancy probabilities occur in Stream Segment 2. For bull trout, Stream Segment 1 contains the highest occupancy probabilities. There are notable decreases in occupancy probabilities for westslope cutthroat trout from baseline to EOY 6 and EOY 12, and for bull trout from baseline conditions and each model year in Stream Segment 3. This is likely caused by the large decrease in available habitat from stream alterations—there are few reaches that remain active (receive occupancy probabilities) during EOY 6 and EOY 12 in

Stream Segment 3. Higher stream temperatures and lower stream discharges in Stream Segment 3 reaches during EOY 18 and EOY 112 explain the lack of recovery in occupancy during those model years for bull trout, which are more sensitive to the temperature/discharge parameters.

**Table 14. Distance-weighted average occupancy probabilities for westslope cutthroat trout for each stream segment for Alternative 3.**

| Westslope Cutthroat Trout | | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY 112** |
| Stream Segment 1 | 63.73% | 61.27% | 63.52% | 63.34% | 63.37% |
| Stream Segment 2 | 64.06% | 64.22% | 64.12% | 64.64% | 64.62% |
| Stream Segment 3 | 63.59% | 59.61% | 59.63% | 62.78% | 62.83% |
| Stream Segment 5 | 63.79% | 62.24% | 62.84% | 63.54% | 63.57% |

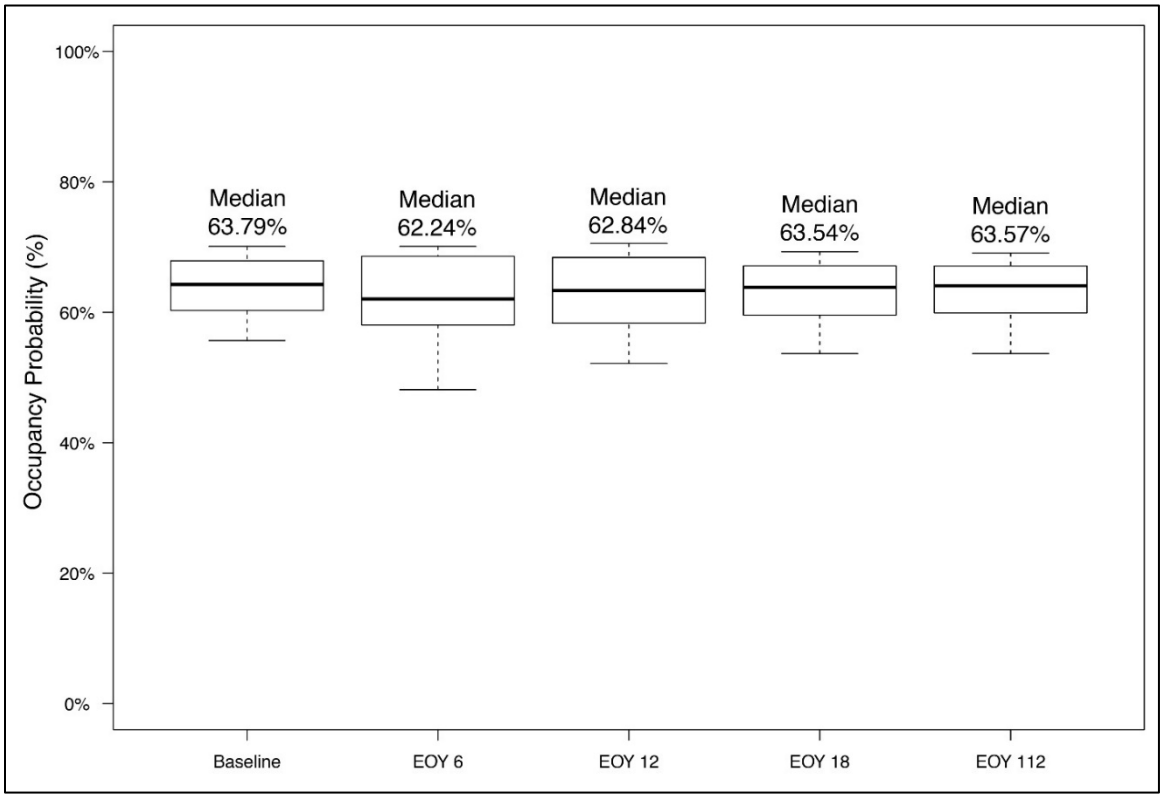



**Figure 9. Occupancy Probability Distributions for Westslope Cutthroat Trout for Stream Segment 5 for all Modeled Years for Alternative 3**

**Table 15. Percent Change in Distance-weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Westslope Cutthroat Trout for each Stream Segment for Alternative 3**

| Westslope Cutthroat Trout | | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | -3.86% | -0.33% | -0.61% | -0.56% |
| Stream Segment 2 | 0.25% | 0.09% | 0.91% | 0.87% |
| Stream Segment 3 | -6.26% | -6.23% | -1.27% | -1.20% |
| Stream Segment 5 | -2.43% | -1.49% | -0.39% | -0.34% |

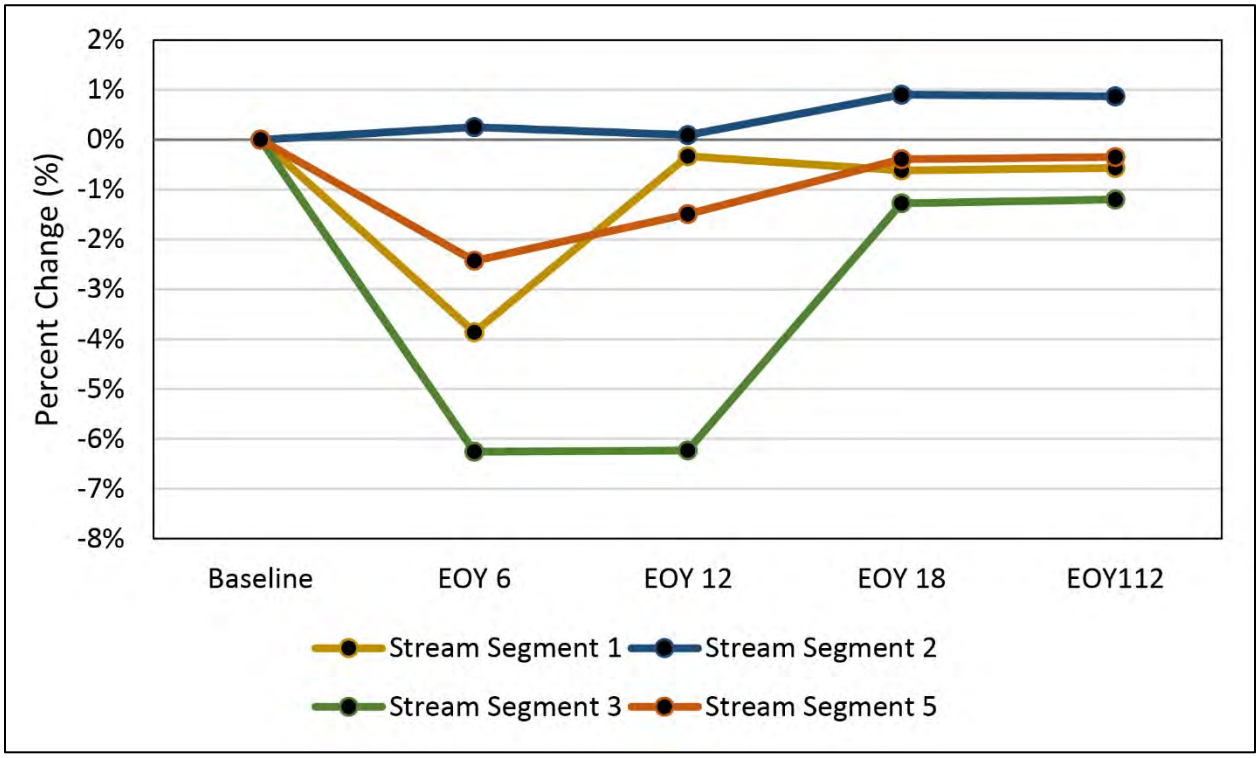



**Figure 10. Percent Change in Distance-weighted Average Occupancy Probabilities for Westslope Cutthroat Trout for each Stream Segment for all Modeled Years for Alternative 3**

**Table 16. Distance-weighted Average Occupancy Probabilities for Bull Trout for each Stream Segment for Alternative 3**

| Bull Trout | | | | | |
|---|---|---|---|---|---|
| | **Baseline** | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | 9.51% | 7.17% | 9.04% | 7.18% | 7.16% |
| Stream Segment 2 | 6.27% | 6.27% | 6.09% | 5.30% | 5.22% |
| Stream Segment 3 | 9.34% | 3.87% | 3.97% | 3.66% | 3.77% |
| Stream Segment 5 | 8.27% | 5.82% | 6.52% | 5.11% | 5.13% |

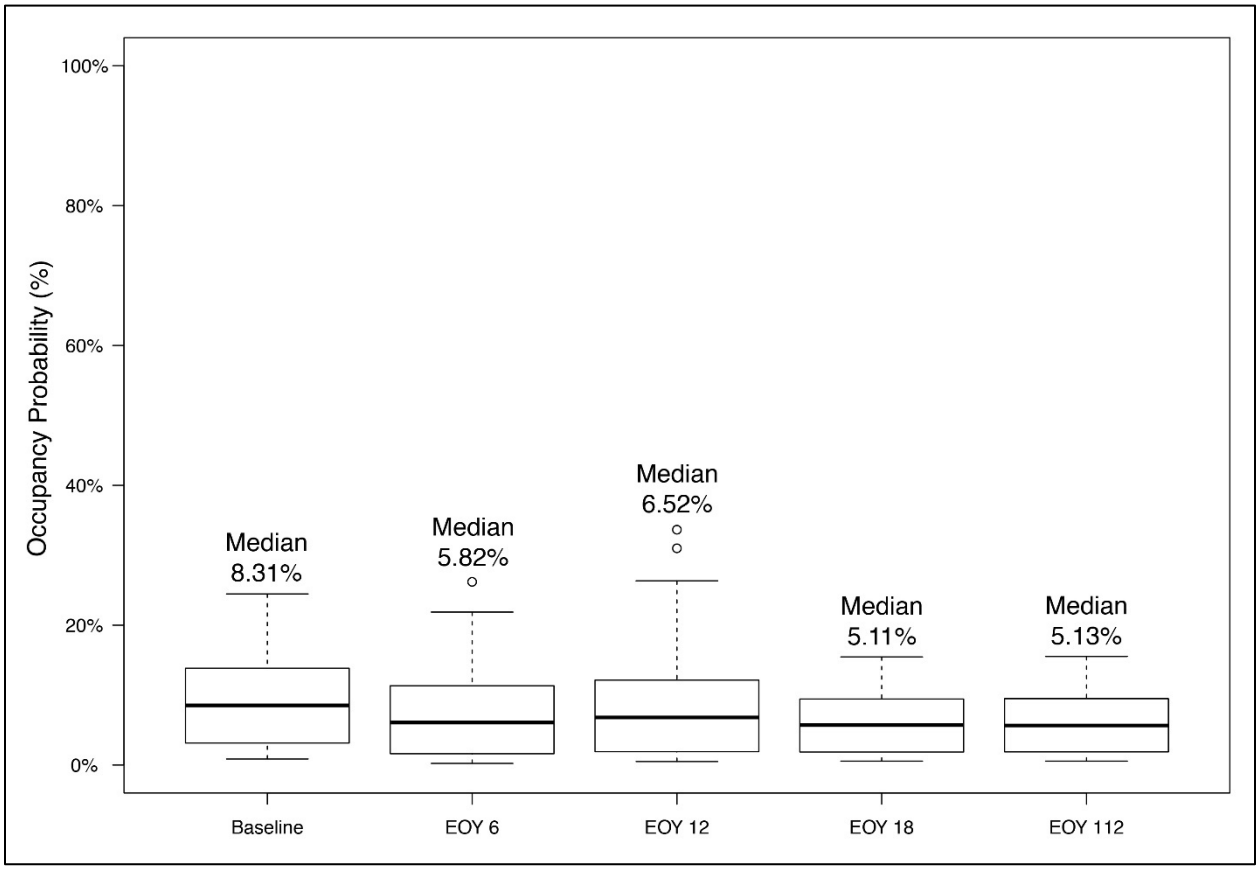



**Figure 11. Occupancy Probability Distributions for Bull Trout for Stream Segment 5 for all Modeled Years for Alternative 3**

**Table 17. Percent Change in Distance-weighted Average Occupancy Probabilities between Existing Conditions and each Model Year for Bull Trout for each Stream Segment for Alternative 3**

| Bull Trout | | | | |
|---|---|---|---|---|
| | **EOY 6** | **EOY 12** | **EOY 18** | **EOY112** |
| Stream Segment 1 | -25.78% | -6.42% | -25.67% | -25.88% |
| Stream Segment 2 | -0.32% | -3.18% | -15.74% | -17.01% |
| Stream Segment 3 | -58.52% | -57.45% | -60.77% | -59.59% |
| Stream Segment 5 | -29.96% | -21.54% | -38.51% | -38.27% |

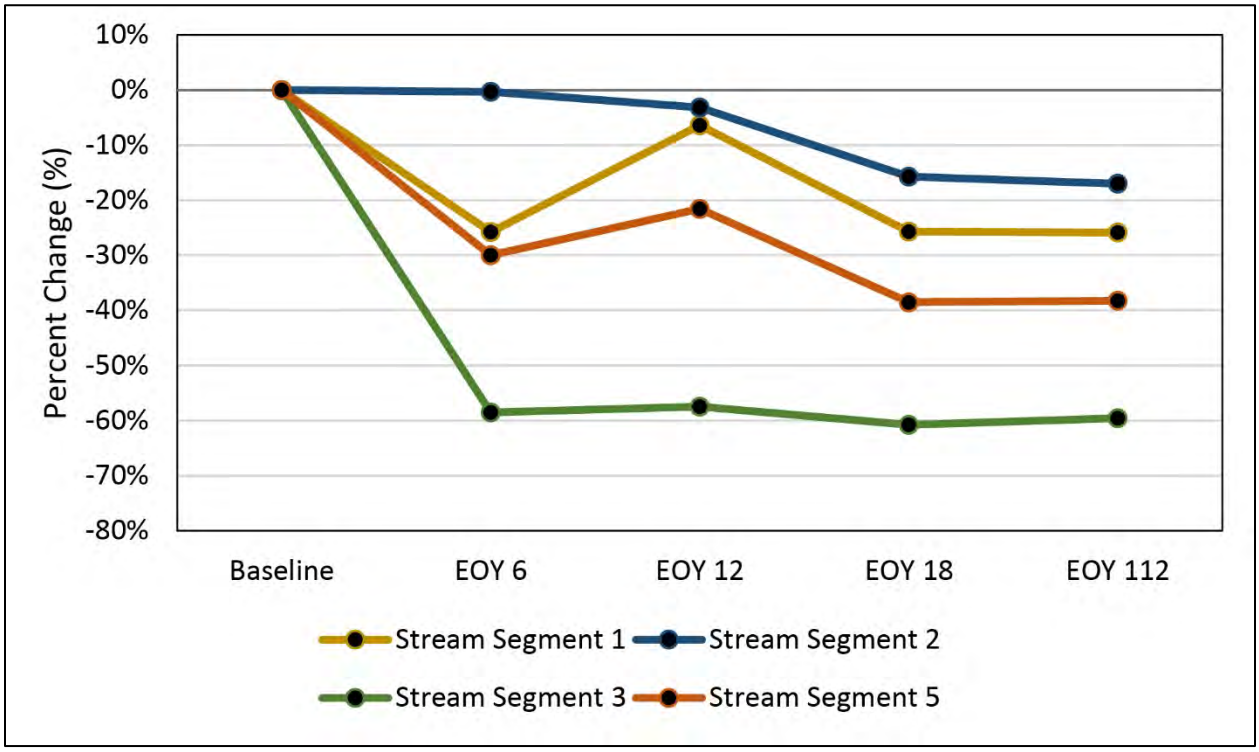



**Figure 12. Percent Change in Distance-weighted Average Occupancy Probabilities for Bull Trout for each Stream Segment for all Modeled Years for Alternative 3**

The length of available habitat for westslope cutthroat trout and bull trout changes throughout the mine life as channel configurations change and water is diverted into temporary conveyances. **Table 18** and **Figure 13** provide the length of available habitat for the two species for each modeled year. The stream discharge and channel slope restrictions are identical for both species; therefore, the length of available habitat is the same for both species. Stream Segment 3 loses 51.5 percent of its available habitat from baseline through EOY 12 (**Table 19** and **Figure 14**). The length of available habitat increases to slightly above baseline conditions during EOY 18 and EOY 112 as reaches are re-created and sinuosity is increased. However, as noted above, bull trout may not have a way to colonize the newly created sections on top of the storage facilities.

**Table 18. Length of Available Habitat for Westslope Cutthroat Trout and Bull Trout for each Stream Segment for Alternative 3**

| | Length of Available Habitat (km) | | | | |
|---|---|---|---|---|---|
| | Baseline | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | 10.45 | 6.75 | 10.33 | 10.88 | 10.88 |
| Stream Segment 2 | 15.10 | 13.77 | 13.77 | 13.79 | 13.86 |
| Stream Segment 3 | 16.16 | 7.84 | 7.84 | 17.20 | 17.20 |
| Stream Segment 5 | 41.70 | 28.37 | 31.95 | 41.87 | 41.94 |

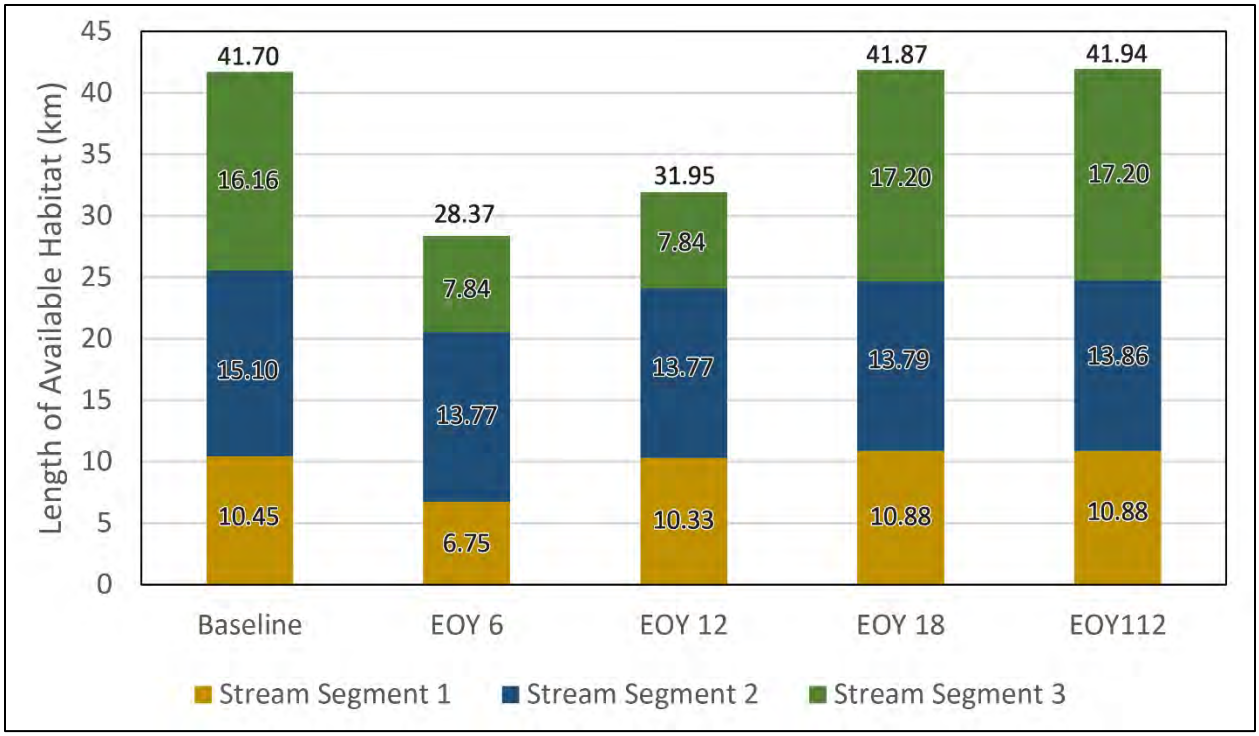



**Figure 13. Length of Available Habitat for Bull Trout and Westslope Cutthroat Trout for each Stream Segment for Existing Conditions and all Modeled Years for Alternative 3**

**Table 19. Percent Change in Length of Available Habitat from Existing Conditions to each Model Year for Bull Trout and Westslope Cutthroat Trout for each Stream Segment for Alternative 3**

| | Percent Change in Length of Available Habitat (km) | | | |
|---|---|---|---|---|
| | EOY 6 | EOY 12 | EOY 18 | EOY112 |
| Stream Segment 1 | -35.41% | -1.15% | 4.11% | 4.11% |
| Stream Segment 2 | -8.81% | -8.81% | -8.68% | -8.21% |
| Stream Segment 3 | -51.49% | -51.49% | 6.44% | 6.44% |
| Stream Segment 5 | -31.97% | -23.38% | 0.41% | 0.58% |

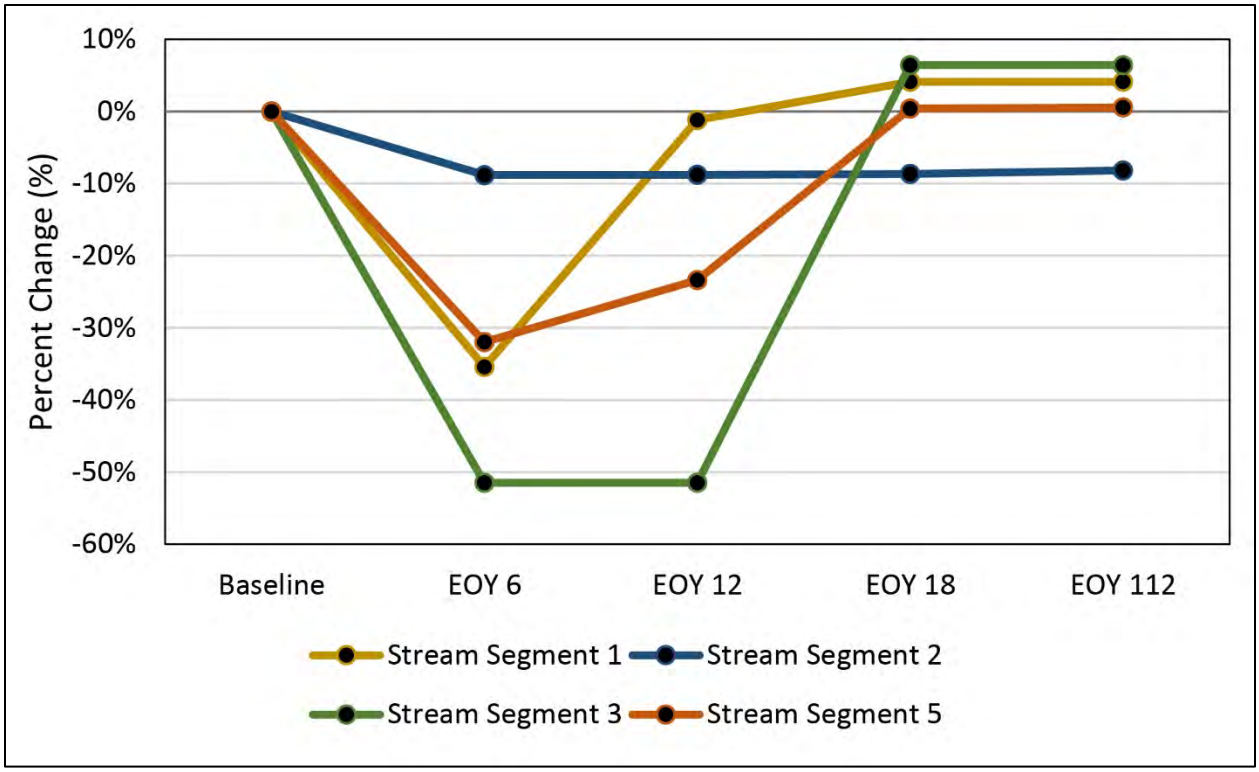



**Figure 14. Percent Change in Length of Available Habitat for each Stream Segment 5 for all Modeled Years for Alternative 3**

# 5.0 SUMMARY

Alternative 2 and Alternative 3 would both result in a reduction in occupancy probabilities when compared to baseline conditions. The reductions fluctuate during the life of the mine and post-mine life. There are large decreases in length of available habitat in certain stream segments where stream diversions are proposed to occur, but by EOY 112 there are slight increases in available habitat for Stream Segment 5. Overall, by the end of mine life—once all streams are in their final location—Alternative 3 is estimated to provide slightly higher occupancy probabilities for westslope cutthroat trout (0.06 percent), while Alternative 2 is estimated to provide higher

occupancy probabilities for bull trout (0.98 percent). Alternative 3 is estimated to provide 0.14 kilometer more habitat availability for westslope cutthroat trout and bull trout than Alternative 2 by the end of mine life (**Table 20**).

**Table 20. Comparison of Occupancy and Available Habitat between Alternative 2 and Alternative 3**

| | Baseline | Alt 2 | Alt 3 | Alt 2 – Alt 3 |
|---|---|---|---|---|
| | | EOY 112 | EOY 112 | Difference |
| Westslope Cutthroat Trout Occupancy | 63.71% | 63.51% | 63.57% | -0.06% |
| Bull Trout Occupancy | 8.27% | 6.11% | 5.13% | 0.98% |
| Length of Available Habitat | 41.70 km | 41.80 km | 41.94 km | -0.14 km |

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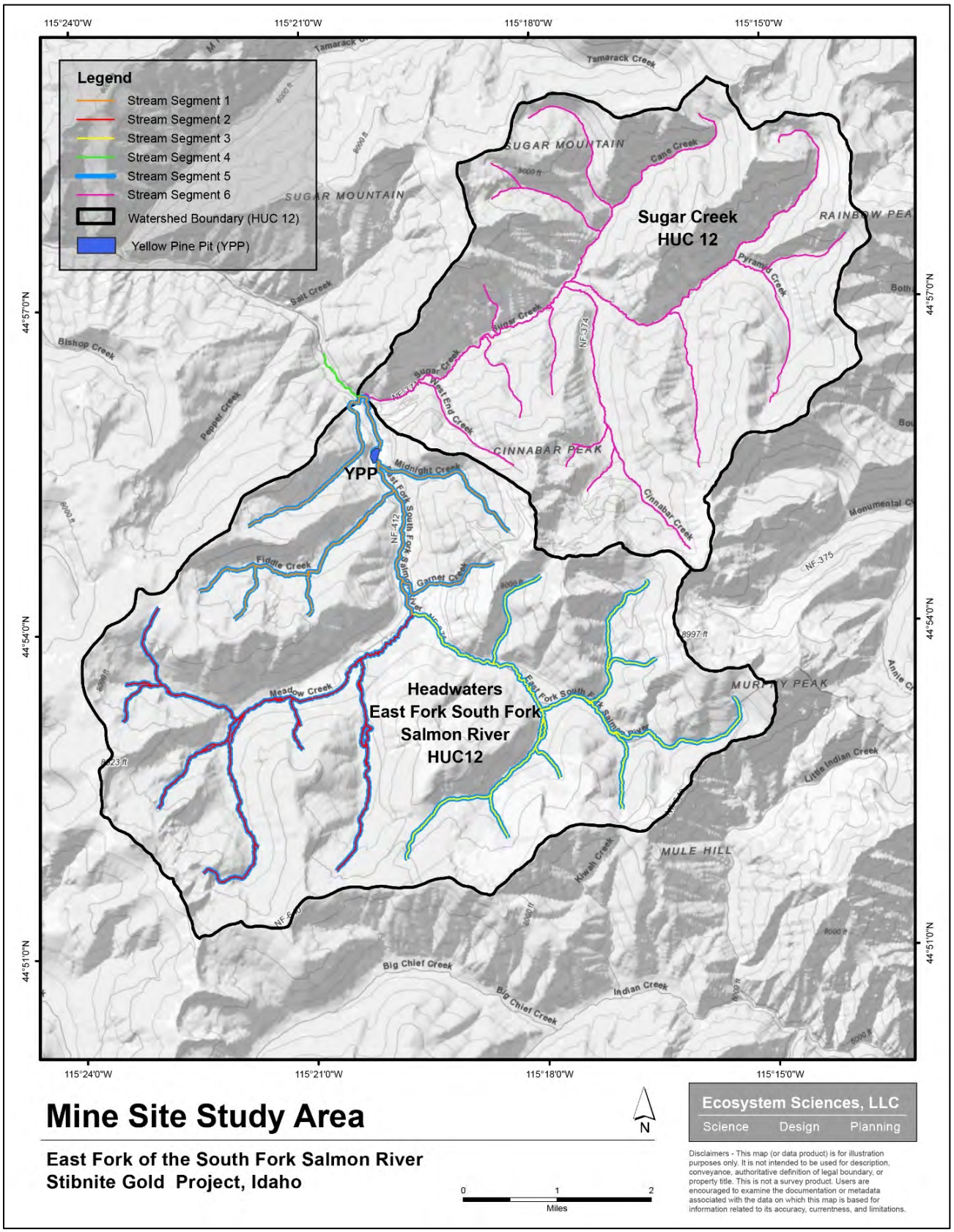
# APPENDIX A: MINE SITE STREAM SEGMENTATION

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## Mine Site Stream Segmentation

The mine site study area, as displayed below, has been delineated into six different stream segments as follows:

- **Stream Segment 1:** The Upper EFSFSR and its tributaries from its confluence with Sugar Creek upstream to its confluence with Meadow Creek.
- **Stream Segment 2:** The entirety of the Meadow Creek drainage area, including the East Fork Meadow Creek.
- **Stream Segment 3:** The Upper EFSFSR and its tributaries upstream of its confluence with Meadow Creek.
- **Stream Segment 4:** The modeled portion of the Upper EFSFSR downstream of its confluence with Sugar Creek.
- **Stream Segment 5:** The entirety of the HUC 12 “Headwaters East Fork South Fork Salmon River” (See figure below). Stream segment 5 is the summation of Stream Segments 1, 2 and 3.
- **Stream Segment 6:** The Sugar Creek drainage area, or the HUC 12 “Sugar Creek” (See figure below).


Legend
Stream Segment 1
Stream Segment 2
Stream Segment 3
Stream Segment 4
Stream Segment 5
Stream Segment 6
Watershed Boundary (HUC 12)
Yellow Pine Pit (YPP)
Sugar Creek
HUC 12
Headwaters
East Fork South Fork
Salmon River
HUC12
YPP
SUGAR MOUNTAIN
CINNABAR PEAK
MULE HILL
Tamarack Creek
Cane Creek
Pyramid Creek
Sugar Creek
West End Creek
Salt Creek
Bishop Creek
Pepper Creek
Midnight Creek
Fiddle Creek
Garnet Creek
Meadow Creek
Cinnabar Creek
Kiwah Creek
Big Chief Creek
Indian Creek
Little Indian Creek
NF-374
NF-375
NF-412
115°24'0"W
115°21'0"W
115°18'0"W
115°15'0"W
44°57'0"N
44°54'0"N
44°51'0"N
Mine Site Study Area
East Fork of the South Fork Salmon River
Stibnite Gold Project, Idaho
N
0
1
2
Miles
Ecosystem Sciences, LLC
Science Design Planning
Disclaimers - This map (or data product) is for illustration purposes only. It is not intended to be used for description, conveyance, authoritative definition of legal boundary, or property title. This is not a survey product. Users are encouraged to examine the documentation or metadata associated with the data on which this map is based for information related to its accuracy, currentness, and limitations.

# Appendix J-8: PHABSIM Technical Memorandum

This TM was developed and finalized for the Draft EIS in December 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# SUMMARY OF EXISTING PHABSIM DATA TO INFORM IMPACTS ON WESTSLOPE CUTTHROAT TROUT AND BULL TROUT

Technical Memorandum

Stibnite Gold Project, Idaho

December 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

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Project Title: Midas Gold Stibnite Project

## Technical Memorandum

Subject: Summary of Existing PHABSIM Data to Inform Impact Assessment for Westslope Cutthroat Trout and Bull Trout Associated with Flow Modification During Low-Flow Periods at the Stibnite Gold Project Site.

Date: December 2019

To: AECOM

From: Ecosystem Sciences, LLC

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# 1.0 INTRODUCTION

The Physical Habitat Simulation System (PHABSIM) is a habitat suitability model developed by the U.S. Fish and Wildlife Service that has been one of the most widely used tools to quantify the relationship between physical fish habitat and flow in streams and rivers (Bovee 1982; Bovee and Milhous 1978; Reiser 1989). Many scientists have been critical of older PHABSIM study results (e.g., Conder and Annear 1987; Shirvell 1986). However, existing PHABSIM modeling results from the region represent available data from a widely accepted method of evaluating the effect of flow modification on fish habitat.

PHABSIM is a specific model designed to calculate an index of the amount of microhabitat available for target organisms and life stages at different flow levels, incorporating two major analytical components: stream hydraulics and organism/life stage-specific habitat requirements. The habitat parameters are water depth, water velocity and stream substrate, which are used to quantify habitat for multiple fish life stages. The habitat output measure is Weighted Usable Area (WUA).

A previous PHABSIM investigation was conducted at several stream locations in the Upper Salmon River basin in the general vicinity of the Stibnite Gold Project location. Conducted in the late 1980s and early 1990s, this investigation was performed as part of the Snake River Adjudication, the process of which is detailed and cited in a 2006 U.S. Geological Survey (USGS) report (Maret et al. 2006). The investigation generated PHABSIM modeling results for several life stages of both bull trout (*Salvelinus confluentus*) and cutthroat trout (*Oncorhynchus clarkia lewisi*) (a sample of results in provided in **Figure 1**). Data used for the analysis was supplied by the U.S. Forest Service (Forest Service).

This document summarizes existing data based on the flow-habitat relationships depicted in the existing PHABSIM dataset for westslope cutthroat trout and bull trout, to provide information on possible impacts associated with project-related changes to low-flow period discharges at selected locations in the Stibnite Gold Project mine site. Although the existing data are not from the mine site, the sites are all less than 10 miles from the Stibnite Gage, located centrally in the mine site (with the exception of Summit Creek). By comparing the hydrology, substrate, slope, and geomorphic setting, one can judge the applicability of the results from historic PHABSIM effort to the proposed project.

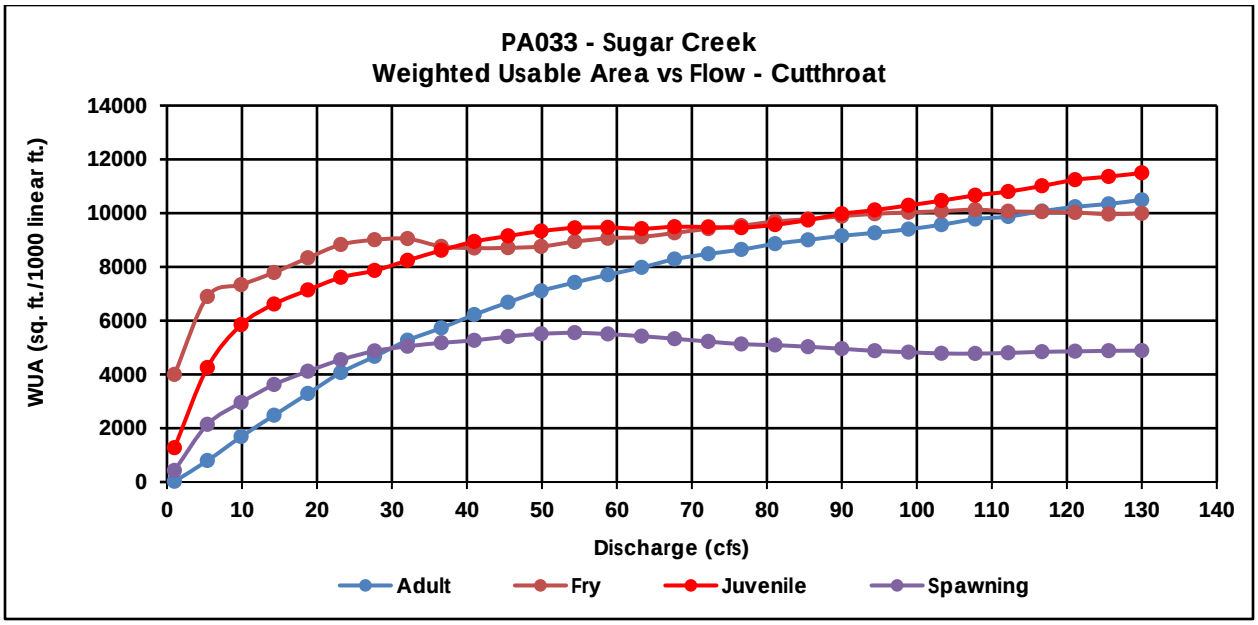



Figure Source: Data Courtesy of Forest Service

**Figure 1. Example of Output from Existing PHABSIM Modeling for Sugar Creek for Cutthroat Trout**

# 2.0 METHODS

## 2.1 INPUTS

As noted previously, data were collected and modeling performed on several streams in the upper East Fork of the South Fork Salmon River (upper EFSFSR) in the vicinity of the project in the late 1980s and early 1990s as part of the Snake River Adjudication (Maret et al. 2006). Results were calculated for several life stages for both fish species. Data used for the analysis were supplied by the Forest Service in Excel spreadsheet format, and copies of field notes were provided as .pdf files.

In accordance with the PHABSIM methodology, cross-sectional profiles were measured at four to five locations in several creeks in the vicinity of the study area. The creeks specifically examined as part of this review were measured between 1986 and 1990 and included the upper EFSFSR, Sugar Creek, Tamarack Creek, Profile Creek, Quartz Creek, and others (**Figure 2** and **Table 1**). In general, these streams were measured at sites located near the bottom of their respective drainages just upstream of the confluence with a larger stream. Due to the proximity of these sites to the study area, they have a similar climate. Therefore, the shapes of the annual hydrographs are generally similar to the larger streams in the Stibnite Gold mine study area. Two example hydrographs from a PHABSIM site and from the study area are provided in **Figure 3** and **Figure 4**.

## 2.2 DATA SUMMARY AND APPLICATION

The PHABSIM sites were compared to selected mine site locations based on key site characteristics, including hydrologic, geographic, and physical site parameters (**Table 1**). The mine site USGS gauge locations and the PHABSIM data were separated into three stream indexes of stream size based on basin size, mean discharge, and baseflow metrics. Due to limited data availability at this time, only one Stream Index 1 and one Stream Index 3 PHABSIM site had full datasets available. Five Stream Index 2 sites were available. Partial datasets for several additional sites were acquired but are incomplete and therefore not included in the analysis at this time. If additional data become available, more sites may be used.

*It should be noted that the differences in the site parameters influence habitat values. The PHABSIM data are approximately 30 years old and were performed for another project. They represent available data that provide reference information and should not be viewed as directly transferable to the project site.*

The PHABSIM habitat results were then summarized by stream index (1 being the smallest streams, 2 intermediate size, and 3 the largest), species, and life stage (**Table 2**). Because the project-associated flow impacts are focused on the low-flow period (for this analysis defined as August-March), the PHABSIM results for the three lowest flows were used, as they most closely represent reduction from baseflow, which is when the project would have its largest flow impacts (based on percentage of flow). The percent change in modeled flows associated with project alternatives 1 through 3 were then summarized for selected mine site locations (**Table 3**) based on comparisons between modeled reductions in flow (based on project-specific flow modeling) compared to the long-term average flows at the USGS gauge locations in the mine site.

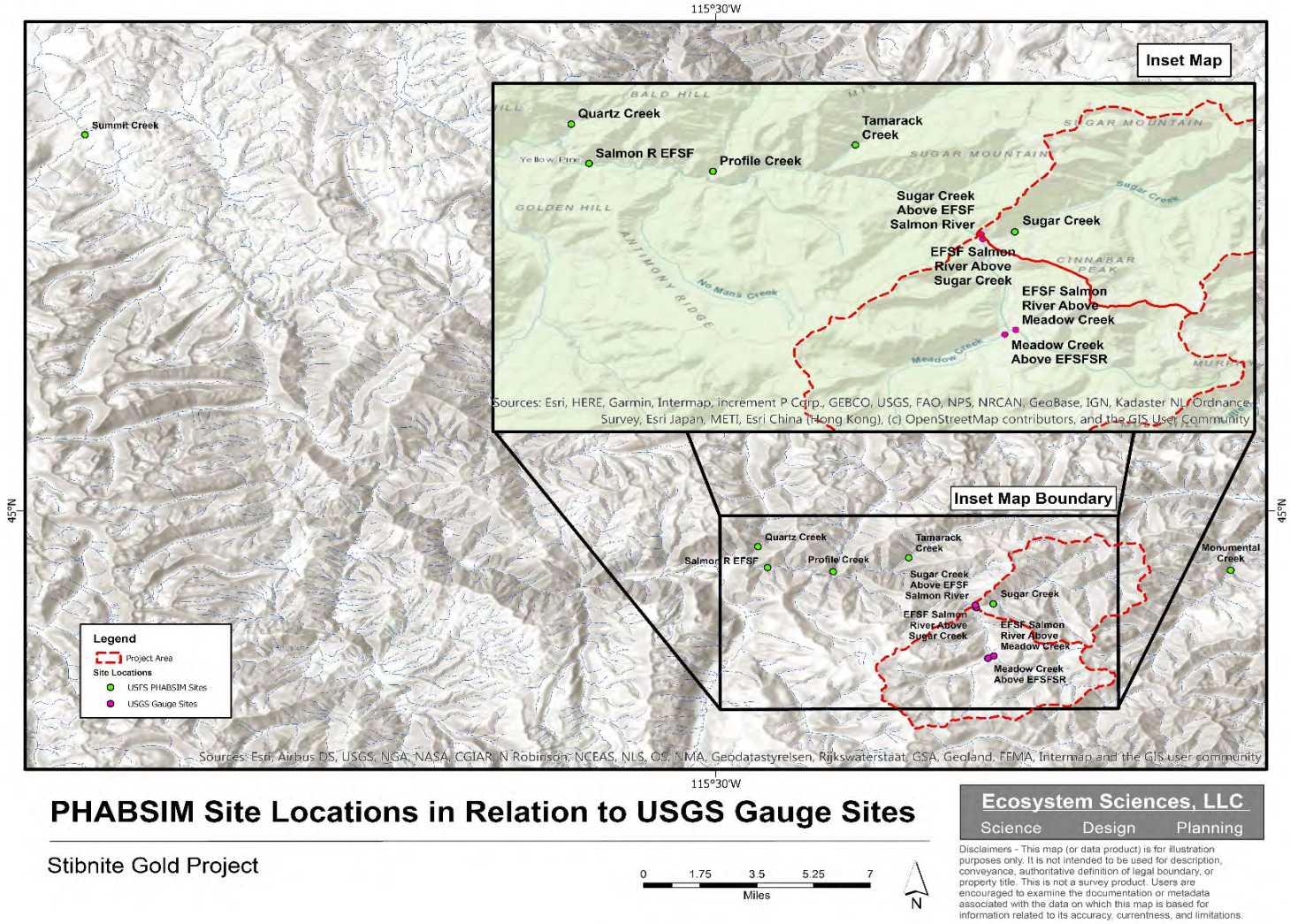



**Figure 2. Map of PHABSIM Sites and the USGS Gauge Sites used in the Analysis**

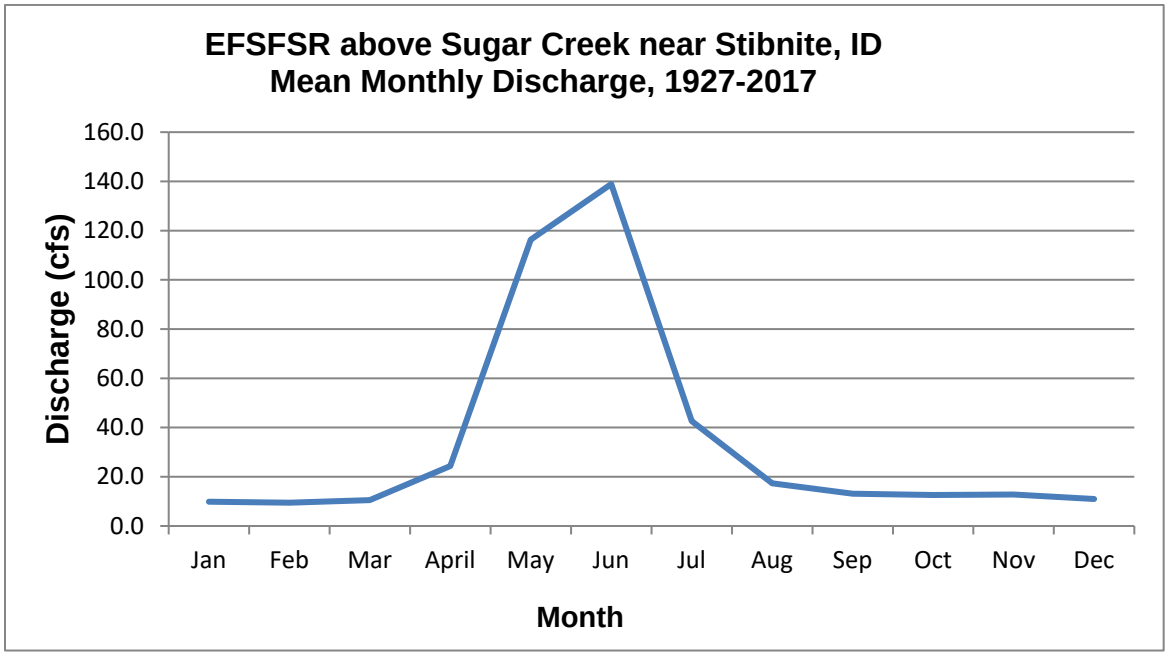



Figure Notes: * Data for EFSFSR above Sugar Creek from Rio-ASE spreadsheet Modflow_Alternatives_Summary_08192019.xls

**Figure 3. Mean Monthly Discharge for EFSFSR Upstream of Sugar Creek near Stibnite, Idaho Gauge**

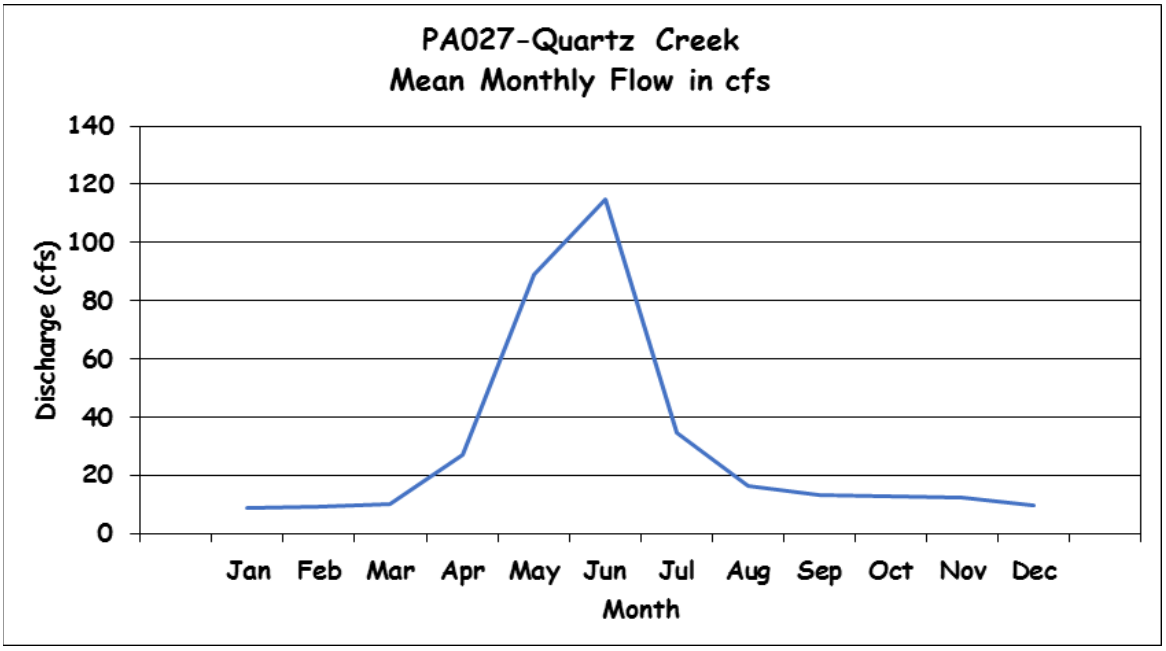



Figure Notes: * Data for Quartz Creek from Forest Service PA027QuartzCreek.xls

**Figure 4. Mean Monthly Flow at Quartz Creek from Forest Service Data**

# 3.0 RESULTS

The purpose of this summary of relevant results from the Snake River Adjudication PHABSIM study is to provide background information about the general relationship between flow and habitat. The reader should consider the similarities and differences between sites displayed in **Table 1**. The PHABSIM modeled habitat results (measured in WUA) are summarized in **Table 2**. Sugar Creek is summarized by itself because flow data were available for Sugar Creek. The results show that there is a relationship between the percent change in flow and the amount of available habitat per species and life stage. In general, habitat declines with reduced flows below baseflow levels. An exception to this trend is the increase for fry habitat at the EFSFSR site. The Habitat Suitability Indexes (HSIs) used in the PHABSIM modeling were not examined, but the predicted decline in habitat is likely due to the general habitat use observations generated from PHABSIM studies that fry, because of their small size, prefer low velocities. Thus, the model predicts more fry habitat as flow and velocity are reduced. The percent change in modeled flows for the low-flow period (defined as August-March) for selected project locations in the mine site are presented in **Table 3**[1].

[1] Data calculated from Rio-ASE spreadsheet Modflow_Alternatives_Summary_08192019.xls. Spreasheet contains mean monthly flow estimates for each site for mine years -2 to 112.

**Table 1. Comparison between Existing PHABSIM Sites and Selected Project Locations for Several Key Parameters (see the bottom of the table for a key headings)**

**Stream Index 3**

| Site Name | Site Type | Distance (miles) | Basin Size (miles$^2$) | Mean Annual Discharge (cfs) | Baseflow (cfs) | Creek Size Index | Bankfull width (ft) | Low flow wetted width (ft) | Slope (%) | Wetted width (ft) | Date cross-sections were measured | Measured discharge (cfs) | Substrate type* | Rosgen Stream Class | Drought, Average, or High flow year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EFSFSR below Sugar Creek | Project | 2.2 | 42.9 | 55.8 | 23.4 | 3 | 31.7 | 25.3 | 1.21 | 25.3 | ND | ND | Very coarse gravel | B3 | N/A |
| EFSFSR | PHABSIM | 7.8 | 107.5 | 142 | 61.6 | 3 | 46.0 | 36.8 | 0.01 | 48.3 | 9/8/1986 | 98.23 | Cobble | C1 | High |

**Stream Index 2**

| Site Name | Site Type | Distance (miles) | Basin Size (miles$^2$) | Mean Discharge (cfs) | Baseflow (cfs) | Creek Size Index | Bankfull width (ft) | Low flow wetted width (ft) | Slope (%) | Wetted width (ft) | Date cross sections were measured | Measured discharge (cfs) | Substrate type* | Rosgen Stream Class | Drought, Average, or High flow year* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EFSFSR above Sugar Creek | Project | 1.9 | 24.0 | 32.6 | 12.5 | 2 | 25.0 | 20.0 | 0.05 | 20.3 | ND | ND | Very coarse gravel | B3 | N/A |
| Monumental Creek* | PHABSIM | 8.4 | 19.6 | 32.6 | 9.6 | 2 | 23.0 | 18.4 | 0.48 | 13.2 | 10/4/1989 | 3.98 | Gravel | C2 | Average |
| Sugar Creek | PHABSIM | 2.2 | 18.0 | 33.4 | 9.7 | 2 | 22.2 | 17.8 | 3.28 | 17.3 | 7/30/1990 | 12.90 | Cobble | B3 | Average |
| Tamarack Creek | PHABSIM | 5.0 | 18.3 | 36.4 | 9.9 | 2 | 22.4 | 17.9 | 0.01 | 21.7 | 7/30/1990 | 21.68 | Cobble | B3 | Average |
| Quartz Creek | PHABSIM | 8.6 | 19.2 | 45.6 | 10.3 | 2 | 22.8 | 18.2 | 0.31 | 22.6 | 8/17/1988 | 10.74 | Boulder | A3 | Average |
| Profile Creek | PHABSIM | 6.0 | 19.5 | 40.3 | 10.6 | 2 | 23.0 | 18.4 | 0.33 | 23.0 | 8/25/1988 | 13.10 | Boulder | B3 | Average |

**Stream Index 1**

| Site Name | Site Type | Distance (miles) | Basin Size (miles$^2$) | Mean Discharge (cfs) | Baseflow (cfs) | Creek Size Index | Bankfull width (ft) | Low flow wetted width (ft) | Slope (%) | Wetted width (ft) | Date cross sections were measured | Measured discharge (cfs) | Substrate type* | Rosgen Stream Class | Drought, Average, or High flow year* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Meadow Creek | Project | 0.3 | 10.1 | 19.3 | 4.8 | 1 | 17.6 | 14.0 | 0.62 | 14.0 | ND | ND | Very coarse gravel | C4 | N/A |
| Upper EFSFSR upstream of Meadow Creek | Project | 0.3 | 9.1 | 8.9 | 4.8 | 1 | 16.8 | 13.5 | 0.07 | 13.3 | ND | ND | Very coarse gravel | E4 | N/A |
| Summit Creek | PHABSIM | 36.8 | 14.7 | 28.6 | 4.3 | 1 | 20.5 | 16.4 | 0.55 | 23.6 | 8/4/1986 | 15.64 | Cobble | C3/C4 | Average |

Table Notes:

*Data sources:

Distance was computed in ArcGIS from the Stibnite USGS Gauge centrally located at the Mine Site.

Basin Size, mean discharge and baseflow: Data calculated from Rio-ASE spreadsheet BankfullWidths_PHABSIM_fromStreamStats.xls; Data gathered from USGS StreamStats web page https://streamstats.usgs.gov/ss/;

All other categories: Data calculated from Rio-ASE spreadsheet BankfullWidths_PHABSIM_fromStreamStats.xls; Rio-ASE Stream Design Report; Baseline Studies data, MWH 2017; Forest Service PHABSIM spreadsheets (e.g. PA033SugarCreek.xlsx,etc.); Forest Service field notes PDFs (e.g. Sugar Creek 033.pdf).

Notes: ND = no data. cfs = cubic feet per second

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**Table 2. PHABSIM Habitat Results for the Three Stream Indexes and for Sugar Creek (please note that Index 2 values in the third matrix are mean values from all five sites)**

| Stream Index 3: EFSFSR | Discharge | | WUA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Species | CFS | % Change | Adult | % Change | Fry | % Change | Juvenile | % Change | Spawning | % Change |
| Cutthroat trout | 25 | -60.3 | 3195.6 | -67.4 | 15272.7 | 14.4 | 12393.2 | -23.6 | 0.0 | N/A |
| | 44 | -30.0 | 6639.5 | -32.2 | 14644.0 | 9.7 | 15253.5 | -6.0 | 0.0 | N/A |
| | **62.9** | 0.0 | 9787.7 | 0.0 | 13345.2 | 0.0 | 16219.9 | 0.0 | 0.0 | N/A |
| Bull trout | 25 | -60.3 | 1108.4 | -49.2 | ND | N/A | 2690.4 | -45.1 | 0.0 | N/A |
| | 44 | -30.0 | 1846.3 | -15.4 | ND | N/A | 4339.7 | -11.4 | 0.0 | N/A |
| | **62.9** | 0.0 | 2183.6 | 0.0 | ND | N/A | 4900.4 | 0.0 | 0.0 | N/A |

| Stream Index 2: Sugar Creek | Discharge | | WUA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Species | Discharge | % change | Adult | % change | Fry | % change | Juvenile | % change | Spawning | % change |
| Cutthroat trout | 1 | -89.9 | 20.5 | -98.8 | 3997.4 | -45.5 | 1270.5 | -78.3 | 428.2 | -85.5 |
| | 5.4 | -45.5 | 794.2 | -52.9 | 6896.1 | -6.0 | 4255.8 | -27.2 | 2139.4 | -27.7 |
| | **9.9** | 0.0 | 1686.7 | 0.0 | 7338.3 | 0.0% | 5849.3 | 0.0 | 2958.5 | 0.0 |
| Bull trout | 1 | -89.9 | 144.3 | -87.7 | ND | N/A | 350.5 | -87.1 | 65.7 | -96.9 |
| | 5.4 | -45.5 | 745.7 | -36.6 | ND | N/A | 1810.9 | -33.1 | 1442.5 | -32.2 |
| | **9.9** | 0.0 | 1176.4 | 0.0% | ND | N/A | 2708.7 | 0.0 | 2126.7 | 0.0 |

| Stream Index 2: Means | Discharge | | WUA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Species | Discharge | % change | Adult | % change | Fry | % change | Juvenile | % change | Spawning | % change |
| Cutthroat trout | 1 | -91.1 | 7.9 | -99.6 | 4829.0 | -37.2 | 1087.7 | -81.7 | 519.7 | -85.0 |
| | 6.46 | -45.6 | 548.9 | -65.8 | 8036.2 | -1.4 | 4547.3 | -24.1 | 2845.2 | -22.6 |
| | 11.94 | 0.0 | 1509.8 | 0.0 | 8419.4 | 0.0 | 6029.1 | 0.0 | 3694.9 | 0.0 |
| Bull trout | 1 | -91.1 | 76.1 | -94.4 | ND | N/A | 184.7 | -94.1 | 48.3 | -97.8 |
| | 6.46 | -45.6 | 643.7 | -40.2 | ND | N/A | 1563.2 | -38.8 | 1599.8 | -33.1 |
| | 11.94 | 0.0 | 1058.9 | 0.0 | ND | N/A | 2490.3 | 0.0 | 2544.3 | 0.0 |

| Stream Index 1: Summit | Discharge | | WUA | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Species | Discharge | % change | Adult | % change | Fry | % change | Juvenile | % change | Spawning | % change |
| Cutthroat trout | 1 | -87.2 | 7.6 | -99.6 | 7116.7 | -50.3 | 1588.8 | -82.5 | 0.0 | N/A |
| | 4.4 | -43.6 | 891.9 | -55.6 | 13111.3 | -8.4 | 5988.9 | -34.1 | 0.0 | N/A |
| | 7.8 | 0.0 | 2007.6 | 0.0 | 14319.8 | 0.0 | 9084.2 | 0.0 | 0.0 | N/A |
| Bull trout | 1 | -87.2 | 261.4 | -89.6 | ND | N/A | 634.9 | -89.3 | 0.0 | N/A |
| | 4.4 | -43.6 | 1451.2 | -42.1 | ND | N/A | 3524.4 | -40.7 | 0.0 | N/A |
| | 7.8 | 0.0 | 2505.5 | 0.0 | ND | N/A | 5939.8 | 0.0 | 0.0 | N/A |

Table Notes:

WUA= Weighted Usable Area. ND= No Data, N/A= Not Aplplicable..

* Data calculated from: Forest Service PHABSIM spreadsheets (e.g. PA033SugarCreek.xlsx,etc.)

**Table 3. Percent Change in Flow for the Low-flow Period (defined as August-March) for Selected Mine Years and Post-closure (defined as an average of mine years 21-118)**

**Alternative 1**

| Mine Year | Period | EFSFSR above Sugar Creek | Sugar Creek | EFSFSR Above Meadow Creek | Meadow Creek above EFSFSR |
|---|---|---|---|---|---|
| | | % Change in Discharge | % Change in Discharge | % Change in Discharge | % Change in Discharge |
| -1 | low flow | -7.5 | 1.1 | -0.1 | -23.0 |
| 1 | low flow | -16.9 | 3.3 | 1.3 | -12.6 |
| 2 | low flow | -19.0 | 2.5 | 1.1 | -9.6 |
| 3 | low flow | -26.9 | 3.7 | 1.3 | -11.0 |
| 4 | low flow | -25.6 | 4.0 | 1.3 | -10.0 |
| 5 | low flow | -24.2 | 3.6 | 1.8 | -8.7 |
| 6 | low flow | -24.7 | 3.8 | 2.1 | -8.3 |
| 7 | low flow | -19.4 | 3.7 | 4.7 | -41.6 |
| 8 | low flow | -14.9 | 3.0 | 6.1 | -52.3 |
| 9 | low flow | -23.1 | 3.9 | 5.1 | -65.5 |
| 10 | low flow | -22.8 | 3.0 | 4.1 | -66.3 |
| 11 | low flow | -20.1 | 3.7 | 4.1 | -64.3 |
| 12 | low flow | -10.2 | 5.5 | 4.0 | -49.7 |
| 13 | low flow | -45.6 | -19.3 | 0.2 | -83.9 |
| 14 | low flow | -39.3 | -12.1 | -0.1 | -90.4 |
| 15 | low flow | -31.5 | -9.0 | -0.1 | -71.7 |
| 16 | low flow | -30.4 | -11.9 | -0.1 | -64.6 |
| 17 | low flow | -26.4 | -11.0 | -0.3 | -53.1 |
| 18 | low flow | -19.3 | -8.4 | -0.7 | -36.7 |
| 19 | low flow | -11.6 | -6.3 | 0.0 | -23.7 |
| 20 | low flow | -4.0 | -8.8 | 0.0 | 4.6 |
| Post Closure | low flow | -2.1 | -0.4 | -0.3 | 2.8 |

Table Notes:

* Data calculated from Rio-ASE spreadsheet Modflow_Alternatives_Summary_08192019.xls

**Alternative 2**

| Mine Year | Period | EFSFSR above Sugar Creek<br>% Change in Discharge | Sugar Creek<br>% Change in Discharge | EFSFSR Above Meadow Creek<br>% Change in Discharge | Meadow Creek above EFSFSR<br>% Change in Discharge |
|---|---|---|---|---|---|
| -2 | low flow | -0.4 | 1.6 | 1.8 | -6.7 |
| -1 | low flow | -5.2 | 2.9 | 2.2 | -31.0 |
| 1 | low flow | -15.3 | 4.9 | 3.5 | -26.3 |
| 2 | low flow | -16.7 | 4.4 | 3.3 | -25.9 |
| 3 | low flow | -24.7 | 4.4 | 3.0 | -24.8 |
| 4 | low flow | -23.0 | 5.3 | 3.5 | -25.3 |
| 5 | low flow | -21.3 | 4.9 | 4.1 | -23.4 |
| 6 | low flow | -21.7 | 5.2 | 4.4 | -23.2 |
| 7 | low flow | -13.3 | 4.3 | 6.3 | -28.4 |
| 8 | low flow | -9.7 | 4.1 | 7.4 | -29.3 |
| 9 | low flow | -19.7 | 4.7 | 6.1 | -36.6 |
| 10 | low flow | -19.0 | 2.9 | 5.2 | -38.9 |
| 11 | low flow | -15.9 | 1.4 | 4.9 | -37.8 |
| 12 | low flow | -6.8 | 1.9 | 5.4 | -32.8 |
| 13 | low flow | -13.8 | -17.6 | 2.4 | -26.6 |
| 14 | low flow | -5.2 | -10.2 | 2.1 | -23.9 |
| 15 | low flow | 0.5 | -7.5 | 1.7 | -7.5 |
| 16 | low flow | 2.1 | -10.1 | 2.0 | 1.4 |
| 17 | low flow | 2.8 | -9.1 | 1.9 | 1.8 |
| 18 | low flow | 2.6 | -6.5 | 1.4 | 1.3 |
| 19 | low flow | 3.7 | -4.9 | 1.6 | 0.1 |
| 20 | low flow | 3.5 | -6.8 | 2.2 | 3.0 |
| Post-closure | low flow | 3.7 | 2.2 | 2.1 | 2.4 |

Table Notes:

* Data calculated from Rio-ASE spreadsheet Modflow_Alternatives_Summary_08192019.xls

**Alternative 3**

| Mine Year | Period | EFSFSR above Sugar Creek<br>% Change in Discharge | Sugar Creek<br>% Change in Discharge | EFSFSR Above Meadow Creek<br>% Change in Discharge | Meadow Creek above EFSFSR<br>% Change in Discharge |
|---|---|---|---|---|---|
| -2 | low flow | -5.9 | 0.0 | -18.4 | 0.2 |
| -1 | low flow | -8.7 | 0.0 | -18.9 | -9.0 |
| 1 | low flow | -19.7 | 0.0 | -21.6 | 1.2 |
| 2 | low flow | -21.1 | 0.0 | -16.6 | 1.6 |
| 3 | low flow | -30.2 | 0.0 | -21.4 | 1.6 |
| 4 | low flow | -28.8 | 0.0 | -20.7 | 2.0 |
| 5 | low flow | -27.8 | 0.0 | -21.3 | 3.4 |
| 6 | low flow | -28.2 | 0.0 | -21.0 | 4.1 |
| 7 | low flow | -23.4 | 0.0 | -17.9 | -33.9 |
| 8 | low flow | -20.5 | 0.0 | -15.4 | -50.8 |
| 9 | low flow | -28.9 | 0.0 | -16.6 | -67.1 |
| 10 | low flow | -27.7 | 0.0 | -15.5 | -67.6 |
| 11 | low flow | -25.3 | 0.0 | -17.3 | -64.8 |
| 12 | low flow | -15.4 | 0.1 | -17.1 | -47.4 |
| 13 | low flow | -37.3 | -17.6 | 0.2 | -94.3 |
| 14 | low flow | -34.0 | -10.2 | 2.2 | -97.9 |
| 15 | low flow | -28.6 | -7.4 | 0.0 | -78.7 |
| 16 | low flow | -23.4 | -10.0 | 0.2 | -69.6 |
| 17 | low flow | -12.7 | -9.0 | 1.1 | -42.3 |
| 18 | low flow | 1.6 | -6.4 | -0.1 | -0.1 |
| 19 | low flow | 4.0 | -4.8 | 0.4 | 2.4 |
| 20 | low flow | 3.3 | -6.7 | 0.1 | 5.0 |
| Post-closure | low flow | 3.6 | 1.7 | 0.0 | 4.0 |

Table Notes:

* Data calculated from Rio-ASE spreadsheet Modflow_Alternatives_Summary_08192019.xls

# 4.0 DISCUSSION AND CONCLUSIONS

The existing PHABSIM study provides a functional relationship between stream discharge and physical habitat for fish species of interest in the upper EFSFSR. The PHABSIM data indicate that during low flow periods flow reductions decrease the amount of modeled habitat for multiple life stages of the species of interest (with the exception of fry in certain cases). The project's influence on stream discharge during low-flow periods varies between sites and alternatives. However, low-flow period reductions in discharge are the most common impact under each alternative. The PHABSIM results represent how similar changes in low-flow discharge were predicted to affect habitat on similar streams in the region.

For example, under Alternative 1, the largest impacts on low-flow discharge would be on Project site at Meadow Creek between Year 7 and Year 19. Over this time, period flows are predicted to decrease between 23.7 percent and 90.4 percent (**Table 3**) (mean = 58.7 percent, median = 64.3 percent). Since Meadow Creek is a small stream, it is in Stream Index 1. Summit Creek is the only PHABSIM site in this stream index category. For Summit Creek, the PHABSIM results indicated an 87.2 percent reduction in discharge from 7.8 cubic feet per second (cfs) to 1 cfs would result in an 89.6 percent reduction in adult bull trout habitat and a 99.6 percent reduction in cutthroat trout habitat (**Table 3**) (note: juvenile results were slightly lower, while effects on cutthroat fry were about half as large). The predicted reduction in adult habitat at Summit Creek associated with a reduction in flow from 7.8 cfs to 4.4 cfs (43.6 percent decrease) was predicted to equate with a 42.1 percent decline adult bull trout habitat and a 55.6 percent decline in cutthroat habitat. There were no PHABSIM results provided for smaller decreases in discharge at low flows for this stream size. Although the results of the PHABSIM modeling are not definitively predictive of habitat changes in Meadow Creek, they do provide a reference as to how the modeling predicted similar reductions in flow could affect fish habitat in a creek of similar size in the watershed.

For the EFSFSR above Sugar Creek site (Stream Index 2), the two years with the greatest reductions in flow under Alternative 1 would be Year 13 and Year 14 (45.6 percent and 39.3 percent, respectively) (**Table 3**). The mean change in habitat predicted by the PHABSIM model for all stream index 2 streams for a 45.6 percent reduction in flow was 65.8 percent reduction for adult cutthroat, and a 40.2 percent reduction for adult bull trout (**Table 2**). The PHABSIM model predicted little change for cutthroat fry (-1.4 percent). Juvenile habitat (-24.1 percent for cutthroat and -38.8 percent for bull trout) and spawning habitat (-33.1 percent for bull trout) were predicted to be less affected than adults by the 45.6 percent flow reduction at Stream Index 2 sites.

Although the PHABSIM results do not explicitly predict changes in habitat associated with changes in flow related to the proposed project, they do provide data on how the model predicted similar reductions in flow at similar-sized creeks in close proximity would affect habitat for species of interest. As stated above, differences in the site parameters influence habitat values. The PHABSIM data are approximately 30 years old and originated from another project, they represent available data that provide reference information and should not be viewed as directly transferable to the project site. However, PHABSIM is a habitat suitability model developed by the U.S. Fish and Wildlife Service that has been one of the most widely used tools to quantify fish habitat.

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# J-9: Bull Trout Use of Lake Habitat Technical Memorandum

This TM was developed and finalized for the Draft EIS in November 2019. There may be differences in the data presented in the figures and tables as compared to the Draft EIS

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# APPENDIX J-9

# BULL TROUT USE OF LAKE HABITAT TECHNICAL MEMORANDUM

Stibnite Gold Project, Idaho

November 2019

Ecosystem Sciences, LLC

Science · Planning · Design

# Technical Memorandum

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Project Title: Stibnite Gold Project

## Technical Memorandum

Subject: Bull trout use of YPP lake and the impacts of the proposed project and its alternatives on bull trout use of lakes within the mine site.

Date: November 6, 2019

To: AECOM

From: Ecosystem Sciences

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# 1.0 INTRODUCTION

The proposed Stibnite Gold Project (Project) would change the availability (and type) of lake habitat to bull trout in the mine site area due to filling of the Yellow Pine pit (YPP) lake and the creation of the Hangar Flats pit lake (Midas Gold 2017). This technical memorandum summarizes the existing data and literature describing bull trout use of lake habitat, including modified open pit lakes such as the YPP lake; describes the results of a fish sampling survey conducted by Brown and Caldwell at the YPP lake in 2018, and provides contextual examples of bull trout using lakes throughout their known historical range. The goal of this technical memorandum is to synthesize relevant information on bull trout use of lake habitat in order to evaluate how changes in the availability of lake habitat related to the proposed mining activities would affect the South Fork of the Salmon River (SFSR) bull trout population.

Bull trout (*Salvelinus confluentus*) is a cold-water salmonid species that inhabits streams and lakes throughout its range in the Rocky Mountains (Rieman and McIntyre 1993; McPhail and Baxter 1996). Bull trout are listed as Threatened throughout the contiguous U.S. by the U.S. Fish and Wildlife Service (USFWS) under the Endangered Species Act. Bull trout populations have been in decline throughout their historical range due to various environmental factors, including habitat degradation, loss of connectivity between cold-water refugia, hybridization with nonnative brook trout, food competition from introduced species, and warming stream temperatures. Bull trout exist in streams and lakes in the SFSR watershed, in the Upper East Fork of the South Fork (UEFSFSR) subwatershed, including the YPP lake (Brown and Caldwell 2019a; Hogen and Scarnecchia 2006; Midas Gold 2019; MWH 2017). In 2010, the USFWS determined that the SFSR watershed contains 758.4 miles of streams and 640 acres of lakes that are critical habitat area for bull trout, including 32.5 miles of the East Fork of the South Fork of the Salmon River (EFSFSR) from its confluence with SFSR to its headwaters, including the UEFSFSR and Meadow Creek (USFWS 2010). The total critical habitat designation in the SFSR watershed includes a mix of spawning and rearing habitat, as well as foraging, migrating, and overwintering habitat (USFWS 2010). The critical habitat does not include the YPP lake, but it does include a wetland area at the base of the Spent Ore Disposal Area (SODA).[1]

1 The reasons for inclusion of the wetland at the base of the SODA as critical habitat while YPP Lake not being classified as critical habitat are unknown. If clarification is provided by the USFWS, this section will be updated.

# 2.0 BULL TROUT USE OF LAKE HABITAT

A distinguishing aspect of the bull trout's life history is its intolerance to warmer water temperatures, in both streams and lakes, relative to other species in the salmonid family. Juvenile bull trout are rarely found where mean summer temperatures exceed 12 degrees Celsius (°C), while adult bull trout sometimes occupy habitats as much as 5 to 10 degrees warmer (Isaak et al. 2015; McPhail and Baxter 1996; Reiman and McIntyre 1993). In their review of cutthroat trout and bull trout habitats in the Rocky Mountains, Isaak et al. (2015) determined that bull trout were most commonly found in stream reaches or lakes with a mean temperature of 9.05°C. The USFWS has defined the critical habitat temperature range for adult bull trout to be between 2°C and 15°C (USFWS 2010). The U.S. Forest Service (Forest Service) Watershed Condition Indicators (WCIs) identify the 7-day maximum average temperature for rearing bull trout as between 4°C and 12°C to be functioning appropriately, between 13°C and 15°C to be functioning at risk, and greater than 15°C to be functioning at unacceptable risk (**Table 1**; Forest Service 2003). Migrant bull trout are likely able to tolerate temperatures greater than those thresholds as they pass from one body of cold water to the next (Maret and Schultz 2013). Juvenile bull trout have a tighter thermal niche and are more easily disturbed by temperature fluctuations than adult bull trout (Isaak et al. 2015). The U.S. Environmental Protection Agency (EPA) Region 10 identifies lethal temperatures for a 1-week exposure for juvenile rearing to be between 22°C and 23°C (EPA 2003).

**Table 1: Bull Trout Temperature Thresholds**

| Life Stage | Juvenile Maximum 7-day Temperatures | | Adult Maximum 7-day Temperatures | |
|---|---|---|---|---|
| **Threshold Level (Source)** | **Juvenile incubation** | **Juvenile rearing** | **Adult spawning** | **Adult migration** |
| Functioning appropriately (Forest Service 2003) | 2-5°C | 4-12°C | 4-9°C | < 15°C (no thermal barriers present) |
| Functioning at risk (Forest Service 2003) | < 5-9°C | < 4 or >12 to15°C | >9-10°C | Sometimes exceed 15°C |
| Functioning at unacceptable risk (Forest Service 2003) | > 10°C | > 15°C | > 15°C | Regularly exceed 15°C (thermal barriers present) |
| Lethal threshold, US EPA Region 10 (EPA 2003) | 22-23°C | | | |
| Critical Habitat Range (USFWS 2010) | | | 2-15°C | |

Bull trout utilize various life-history strategies. The resident fluvial form lives out its life in small headwater streams and reaches sexual maturity at a small size (McPhail and Baxter 1996). The migratory fluvial form lives as an adult in large rivers but spawns in small tributary streams and

migrates between spawning and living areas (McPhail and Baxter 1996). The lacustrine-adfluvial form spawns in tributary stream reaches but lives in lakes as an adult. In any given watershed where bull trout are found, groups of distinct, overlapping life history patterns may exist within a bull trout population (Watry and Scarnecchia 2008). Bull trout require a complex array of habitats to survive, particularly in the winter (Jakober et al. 1998). Researchers have found that bull trout will use various depths of lakes to feed on prey, as long as the water temperatures that they feed in do not exceed 15°C (McPhail and Baxter 1996). In lakes, bull trout have been found to feed at depths less than 6.5 feet (Weigel et al. 2017), as well as at depths greater than 60 feet (Maret and Schultz 2013; McPhail and Baxter 1996).

Typically, bull trout migrate upstream to spawn before returning to a larger body of water to overwinter (Watry and Scarnecchia 2008). However, there are documented cases of bull trout migrating downstream to access a preferred tributary before migrating back upstream to overwinter in a lake (Hogen and Scarnecchia 2006). Bull trout have been shown to move more frequently when bodies of water experience frequent periods of freezing and thawing in winter (Jakober et al. 1998). Bull trout overwinter in deep or covered pools or lakes (McPhail and Baxter 1996; Rieman and McIntyre 1993). Incubating bull trout need to be in a substrate that prohibits freezing, while juvenile and adult bull trout need to be in a body of water with a consistent water temperature and cover to allow for minimal amounts of movement (McPhail and Baxter 1996; Rieman and McIntyre 1993).

Section 7 of this document provides a more detailed review of bull trout use of lake habitat throughout the region.

# 3.0 BULL TROUT USE OF YPP LAKE

The YPP lake is roughly 2 hectares (approximately 5 acres) in size, with steep unnatural shorelines that were created by previous mining activity (Brown and Caldwell 2019a; Hogen and Scarnecchia 2006). In 1999, the YPP lake had a maximum depth of 45 feet, with most of the lake being deeper than 19.6 feet (Hogen and Scarnecchia 2006). Brown and Caldwell (2019a) reported the lake as averaging about 30 feet in depth. The UEFSFSR flows into the YPP lake along a long, steep riffle/cascade, with approximately a 30 percent gradient (Brown and Caldwell 2019a). The riffle/cascade located on the southwest end of the YPP lake prevents upstream fish passage. The YPP lake supports the adfluvial and fluvial life history patterns of bull trout (Burns et al. 2005; Hogen and Scarnecchia 2006; Brown and Caldwell 2019a). The results of the 2018 Brown and Caldwell (2019a) YPP fish sampling survey, pertaining to bull trout specifically, are summarized in the next subsection.

Burns et al. (2005) noted in their review of existing bull trout populations within the Payette National Forest that all bull trout life history strategies exist within the SFSR watershed. The authors concluded that the watershed's overall habitat connectivity and availability of suitable spawning habitat contribute to its consideration as having high bull trout population viability. In addition, Meyer et al. (2014) found that the SFSR watershed had a positive intrinsic rate of change, meaning that the bull trout population in the SFSR watershed was increasing in 2014.

Hogen and Scarnecchia (2006) investigated the spatial and temporal movement patterns of 62 bull trout by capturing the fish in the Upper EFSFSR, implanting them with radio tags, and then tracking them over 2 years. All of the bull trout in their study were migratory. The majority of the radio-tagged fish overwintered in the larger rivers downstream of the EFSFSR. A minority of radio-tagged bull trout overwintered in the YPP lake—specifically, 8.1 percent. The bull trout that overwintered in the YPP lake displayed an adfluvial life history in which they migrated quickly downstream from the YPP lake in June, entered a small tributary, spawned in the fall, and then returned upriver to the YPP lake to overwinter. The authors of the study also noted that they observed all of the bull trout in their study using large deep pools and runs and avoiding shallow riffles in the winter.

# 4.0 BROWN AND CALDWELL 2018 YPP LAKE FISH SAMPLING SURVEY SUMMARY[2]

## 4.1 SAMPLING OVERVIEW

In May, July, and September of 2018, Brown and Caldwell conducted fish sampling surveys at the YPP lake (Brown and Caldwell 2019a). The purpose of the fish sampling surveys, done in three separate 2-day sampling events, was to collect, count, and tag fish in the YPP lake to allow for population estimates to be made for the salmonid and char species found to be present. Brown and Caldwell also sought to monitor the movement patterns of collected salmonid and char species. Flows into and out of the YPP lake were high in May and remained high into the July sampling event; by the September sampling event, flows had subsided, but there was still flow through the lake (Brown and Caldwell 2019a). Large algae masses were noted to exist in the bottom of the YPP lake during the July 2018 sampling event (Brown and Caldwell 2019a).

A total of 103 bull trout, 50 westslope cutthroat trout, 52 juvenile Chinook salmon, 5 rainbow trout, and several hundred whitefish were captured using seine nets and hook-and-line angling methods (Brown and Caldwell 2019a). Brown and Caldwell (2019a) determined that they were able to successfully seine 1.5 percent or 2,340 cubic yards of the YPP lake; however, the authors noted that large portions of the lake were unable to be seined because of steep shorelines. Hook and line angling was used as an ancillary means of fish surveying in the study.

## 4.2 BULL TROUT SIZE DISTRIBUTION

A total of 75 bull trout were measured for their total length and weight between all three sampling events in the 2018 Brown and Caldwell YPP lake fish sampling survey. The mean fork length of the bull trout collected was 317 millimeters (mm). The weight of bull trout collected ranged from less than 100 grams to over 3,000 grams, with the majority of weights falling between 1,000 and 100 grams. Brown and Caldwell noted that bull trout less than 300–450 mm (fork length) have been classified as sub-adult. Three individual bull trout were collected that exceeded 575 mm in fork length. The largest bull trout (>600 mm fork length) measured in the survey were captured during the July sampling event. Brown and Caldwell (2019a) hypothesized that those fish were migratory, fluvial bull trout that move into and out of the YPP lake during the summer. Bull trout with a fork length greater than 600 mm were not collected during the May or September sampling events. The mean fork length of bull trout across all sampling events was 317 mm. These data indicate that juvenile, sub-adult, and adult fish all use the YPP lake.

## 4.3 BULL TROUT MOVEMENT PATTERNS

Based on population estimate modeling, Brown and Caldwell (2019a) determined that between 25 and 69 bull trout resided in the YPP lake. Brown and Caldwell (2019a) specifically used the Chapman modification of the Lincoln-Petersen method to estimate the population of bull trout in the YPP lake for each month's sample. The May 2018 sampling event was the lowest population estimate, at 25 individual adult fish, with a confidence interval of +/- 14 adult fish. The July 2018 sampling event resulted in the highest population estimate, at 69 individual adult fish, with a confidence interval of +/- 71 adult fish. The September 2018 sampling resulted in a population estimate of 40 adult fish, with a confidence interval of +/- 18 adult fish. Of the 103 total bull trout collected in the fish sampling survey, Brown and Caldwell (2019a) determined that 39 individuals

[2] This summary does not include the 2019 survey results. The section will be updated at a later time to show the additional data.

never left the YPP lake, 12 individuals left the YPP lake downstream and did not return, and 24 individuals left YPP lake downstream and then returned upstream to the YPP lake (Brown and Caldwell 2019a). Bull trout exited the YPP lake and then returned from July through November 2018; 65 percent of bull trout movement upstream back to the YPP lake occurred in September (Brown and Caldwell 2019a). In a similar survey of bull trout movement patterns within the EFSFSR watershed, Hogen and Scarnecchia (2006) tracked one bull trout that left the YPP lake in June and returned in mid-October.

# 5.0 BASELINE BULL TROUT HABITAT CONDITIONS AT YPP LAKE

The presence of a stream outlet to the YPP lake is a critical aspect of bull trout presence; their adfluvial life history form is dependent on being able to migrate downstream to spawning areas in small stream reaches before returning upstream to forage and overwinter in the YPP lake in the fall. In addition, relatively cool water temperatures and documented ample prey availability contribute to the bull trout's use of the YPP lake. The baseflow discharge at the outlet of the YPP in the late summer and fall period is approximately 12 cubic feet per second (cfs), and fish are thought to be able to pass in and out of the lake at the outlet.

## 5.1 YPP LAKE TEMPERATURE PROFILE

In the 2018 Brown and Caldwell fish sampling survey of YPP Lake, water temperatures collected during the daylight hours ranged from 5.8°C to 5.9°C in May, 11.4°C to 13°C in July , and 6.3°C to 7.8°C in September (Brown and Caldwell 2019a). In 2019, Brown and Caldwell released a pit lake network temperature proposed action report that describes thermal conditions in the vicinity of the YPP lake. Under a "no action" scenario that replicates existing daily average summer temperatures at the YPP lake, Brown and Caldwell determined that the stream reach immediately upstream of the YPP lake was predicted to reach 13°C (Brown and Caldwell 2019b). Under the same "no action" scenario for the stream reach immediately downstream of the YPP lake, Brown and Caldwell determined that the daily average summer temperature was modelled to be between 13°C and 14°C (Brown and Caldwell 2019b). In comparison to the recorded YPP lake temperatures during May, July, and September and the WCI temperature standards for bull trout (Forest Service 2003), the YPP lake is functioning appropriately for adult migratory bull trout, adult spawning bull trout in May and September, and rearing bull trout in May and September (**Table 1**). The YPP lake is not functioning appropriately for the incubation life stage of bull trout across all 3 months, though there are no data that indicate bull trout are spawning in the YPP lake (**Table 1**). The YPP lake is therefore likely not used by bull trout for spawning or egg incubation. However, based on the 2018 Brown and Caldwell fish sampling survey, it is apparent that rearing bull trout extensively use the lake, as the mean size of bull trout caught in the survey was classified as sub-adult, with a mean fork length of 317 mm (Brown and Caldwell 2019a; Muhlfeld and Marotz 2005; Ringel et al. 2014).

# 6.0 ASSESSMENT OF CHANGES IN LAKE HABITAT FOR BULL TROUT UNDER EACH ALTERNATIVE

## 6.1 SUMMARY OF PROPOSED MINE ACTIONS AS THEY RELATE TO BULL TROUT HABITAT

Based on Project documentation, the proposed action and alternatives would affect the amount of lake habitat available to bull trout in the SFSR watershed. Under all the proposed action alternatives, the existing bull trout habitat in the YPP lake would be lost, as the pit would be filled in and the EFSFSR stream re-created. Under all alternatives, bull trout would have a temporal loss of all lake habitat within the mine site for approximately 20 years, from mine year 1, when the diversion through the EFSFSR tunnel begins, to mine year 20, when the Hangar Flats pit lake would become accessible (this is an estimate of when the Hangar Flats pit would be filled). The year at which the Hangar Flats pit would be filled is dependent on precipitation, temperature, etc. and not precisely predicable. Under alternatives 1, 3, and 4, after 20 years of no available lake habitat, lake habitat would be accessible for at least part of the year at the Hangar Flats pit, but with physical, temperature, and forage conditions that would be different than at the YPP lake. Under Alternative 2, Meadow Creek would not be routed through the Hangar Flats pit lake; therefore, connected habitat would not be provided for bull trout. In alternatives 1, 3, and 4, the depth of the Hangar Flats pit lake would be over 590 feet. At depths greater than 32 feet, the temperature profile of the Hangar Flats pit lake in all alternatives would be cold enough to support bull trout year-round, post-mine closure. The Hangar Flats Pit lake would be larger than the YPP lake in surface area; as the YPP is about 5 acres, while Hangar Flats would be about 67.8 acres of open water (Midas Gold 2017).

## 6.2 PROPOSED ACTION (ALTERNATIVE 1)

Three open pits would be created—YPP, Hangar Flats pit, and West End pit. Hangar Flats would be the only pit that would provide habitat for bull trout and provide connectivity to the EFSF watershed. The YPP would be mined and then filled in. The EFSFSR would be routed around the YPP in a tunnel during operations, with design for fish passage. During approximately the first 20 years of mine operation, a constructed channel around the Hangar Flats pit, with enhancements for aquatic species and access to floodplains, would be available for use; however, there would be no lake habitat within the mine site. The Hangar Flats channel would be lined with a geosynthetic material to prevent loss of flow. The channel would be sinuous, with enhancements for aquatic species and to create floodplains (Rio ASE 2018). Following pit closure and filling (approximately 20 years after the filling of YPP), Meadow Creek would be routed through the Hangar Flats pit. Under the final configuration at post-closure, Meadow Creek would flow into the Hangar Flats pit lake, and the lake would discharge into lower Meadow Creek. Post-mine closure, the EFSFSR channel would be re-established in a surface channel and routed through the filled YPP.

Under this proposed action alternative, bull trout would not have access to the YPP lake habitat at mine year 2. Based on filling estimates, bull trout would have access to the Hangar Flats pit lake between mine years 17 or 18, when the pit fills (dependent on precipitation) (Midas Gold, 2017). Therefore, lake habitat would not be available for approximately a 20-year period, and bull trout would need to seek other habitats for overwintering and holding needs. Once filled, the Hangar Flats pit lake would provide lake habitat for bull trout. However, due to the size, depth,

temperature regime, and food resource differences between Hangar Flats and the YPP, the function of the lake as bull trout habitat would differ from that of the YPP lake.

The Hangar Flats pit lake is projected to be much deeper than the YPP lake; Hangar Flats would be as deep as 600 feet, while the YPP lake is around 45 feet deep. Based on temperature modeling of pit lakes for the proposed action (Brown and Caldwell 2019b), the mean maximum weekly summer temperature in the Hangar Flats pit lake post-mine closure would be 16.9°C (Brown and Caldwell 2019b), which is higher than the USFWS and Forest Service WCI threshold. The mean maximum weekly fall temperature in the Hangar Flats pit lake post-mine closure would be 13.2°C. In post-closure mine years 2050-2053, at depths deeper than 32.8 feet, the temperature profile at all times of the year in the Hangar Flats pit lake would hover around 4°C (Brown and Caldwell 2019b). Therefore, at depths greater than 32.8 feet, the simulated temperature profile of the Hangar Flats pit lake is projected to be suitable for bull trout.

Temperatures within the top 32.8 feet of the lake would be warmer than below 32.8 feet. Modeled temperatures at the outflow location are predicted to be between 7.8°C and 21.9°C (mean of 16.9°C) during the summer period and between 6.4°C and 18.7°C (mean of 13.2°C) during the fall modeling timeframe. These model results indicate that surface temperatures in the Hangar Flat pit lake would exceed the temperature guidelines for bull trout during both periods, but also would be below the guidelines at times during both periods as well. Diurnal and weekly variations in temperature and flow are likely to vary inside and outside of the bull trout temperature guidelines during both summer and fall modeled periods.

Post-closure discharges from the Hangar Flats pit lake would be between 0 and 1.9 cfs (mean 0.12 cfs) during the summer modeling period and between 0 cfs and 0.84 cfs (mean 0.13 cfs) during the fall period (Brown and Caldwell 2019b).

The flow discharge magnitudes also would intermittently restrict migration into and out of the Hanger Flats pit lake, unlike the YPP lake, as the EFSFSR has a higher discharge throughout the year. Research on bull trout use of YPP indicates that they are highly migratory and move in and out of the YPP during the summer and fall periods. If temperatures and flow rates restrict this movement, the utilization of the Hangar Flats pit lake by adfluvial bull trout may be limited.

Adult bull trout are highly piscivorous, and the availability of suitable prey species affects the quality of lake habitat to large adult bull trout. The YPP was found to have a large population of whitefish (Brown and Caldwell 2019a), which are a likely prey fish for larger adult bull trout. Given that 39 of 103 bull trout collected in the Brown and Caldwell survey in 2018 never left the YPP lake, it could be assumed that there is enough of a food supply (whitefish, cutthroat trout, juvenile chinook, and invertebrates) to support bull trout of various sizes in the YPP lake. Based on the results of Occupancy Modeling (Ecosystem Sciences 2019a), there would be 6.21 miles of available fish habitat upstream of the Hangar Flats pit lake for prey species of bull trout to reside in. Some of these fish would presumably move down the face of the Tailings Storage Facility (TSF) either voluntarily or involuntarily. The amount of habitat that would become available in this proposed action compares to 24.53 miles of available fish habitat currently available to bull trout prey species upstream of the YPP lake (Ecosystem Sciences 2019b). The amount of habitat upstream of the two lakes is relevant, as it would affect the number of available potential prey species available to adult bull trout.

## 6.3 MODIFIED PROPOSED ACTION (ALTERNATIVE 2)

Under Alternative 2, the Hangar Flats pit lake water depth would be reduced from 600 feet in Alternative 1 to approximately 140 feet due to the filling of the pit with development rock (Brown

and Caldwell 2019c). Meadow Creek would not be routed through the Hangar Flats pit lake; instead, the interim channel around the Hangar Flats pit would be retained as a reclaimed main channel. Therefore, there would be no connection between Meadow Creek and the Hangar Flats pit lake except as occasional outflow from the lake through a channel that would reconnect with lower Meadow Creek downstream of the lake. To accelerate filling of the pit, at combined flows above 5 cfs between Meadow Creek and Blowout Creek, water would be diverted to Hangar Flats pit. It is assumed that there would be a fish exclusion diversion to eliminate fish from being entrained.

The surface area of the Hangar Flats pit lake would be similar to Alternative 1, but the outflow and temperature would vary under Alternative 2. The mean August discharge from the Hangar Flats pit lake to Meadow Creek would be 1.09 cfs with an average daily temperature of 19.6°C, and maximum weekly summer flow would be only slightly higher at 1.16 cfs at 21.1°C. A maximum weekly fall flow would be 1.06 cfs at 14.2°C (Brown and Caldwell 2019c). Because the pit would not be connected to Meadow Creek, except at the outlet, it is unclear if bull trout would move into and out of the lake. Based on the flows described for Alternative 1, it is unlikely that there would be sufficient flows to connect the pit lake to Meadow Creek and provide for passage of bull trout for most of the year.

## 6.4 ALTERNATIVE 3

Alternative 3 would have very similar conditions for bull trout access to lakes as Alternative 1. The movement of the TSF/Development Rock Storage Facility (DRSF) as the water balance of the pits is primarily determined by the location of the pits and the dewatering activities, therefore the relocation of the DRSF/TSF does not affect these factors (Brown and Caldwell 2019d). According to the EFSFSR TSF/DRSF Modeling and Analysis Report (Brown and Caldwell 2019d), for the summer period, the warmest 7-day period in each of the 92 model years was identified, and the median temperature (19.3°C) was used for the discharge to lower Meadow Creek. For the fall period, the median temperature of the first week of fall for each of the 92 model years (11.8°C) was applied. The analysis of the impact on bull trout use of the Hangar Flats pit lake therefore applies to Alternative 3. Based on the results of Occupancy Modeling (Ecosystem Sciences 2019c), there would be 5.95 miles of available fish habitat upstream of the Hangar Flats pit lake for prey species of bull trout to reside in.

## 6.5 ALTERNATIVE 4

The changes associated with Alternative 4 would be similar to Alternatives 1 and 3.

**Table 2: Comparison of Habitat Conditions for Bull Trout at YPP Lake and Hangar Flats Pit Lake**

| Lake | YPP Lake | | Hangar Flats Pit Lake | | |
|---|---|---|---|---|---|
| **Habitat Conditions** | | | **Proposed Actions and Alternatives** | | |
| **Water Temperature** | Spring[1] | 5.8 to 5.9°C | Summer | 16.9°C (mean max) | **Proposed Action (Alternative 1)[2]** |
| | | | Fall | 13.2°C (mean max) | |
| | Summer[1] | 11.4 to 13°C | Summer | 21.1°C (mean max) | **Modified Proposed Action (Alternative 2)[3]** |
| | | | Fall | 14.2°C (mean max) | |
| | Fall[1] | 6.3 to 7.8°C | Summer | 19.3°C (median max) | **Alternative 3[4]** |
| | | | Fall | 11.8°C (median max) | |
| | | | Assumed same as Alt 1 | | **Alternative 4** |
| **Surface Area** | 5 acres[1] | | 67.8 acres[5] | | **Proposed Action (Alternative 1)** |
| | | | 67.8 acres[5] | | **Modified Proposed Action (Alternative 2)** |
| | | | 67.8 acres[5] | | **Alternative 3** |
| | | | 67.8 acres[5] | | **Alternative 4** |
| **Maximum Depth** | 45 feet | | 590 feet[5] | | **Proposed Action (Alternative 1)** |
| | | | 140 feet[3] | | **Modified Proposed Action (Alternative 2)** |
| | | | 590 feet[5] | | **Alternative 3** |
| | | | 590 feet[5] | | **Alternative 4** |
| **Upstream Available Fish Habitat** | 24.53 miles[6] | | 6.21 miles[7] | | **Proposed Action (Alternative 1)** |
| | | | 0 miles | | **Modified Proposed Action (Alternative 2)** |
| | | | 5.95 miles[8] | | **Alternative 3** |
| | | | Same as Alt 1 | | **Alternative 4** |
| **Connectivity to Streams** | Connected at the outlet to EFSFSR year-round (late summer- fall base flow +/- 12 cfs); no upstream fish passage | | Periodic stream connectivity for both inflow and outflow (discharge estimates of 0-1.9 cfs in summer and 0 and 0.84 cfs in fall)[2] | | **Proposed Action (Alternative 1)** |
| | | | Periodic stream connectivity for outflow (max. discharge of approx. 1 cfs in summer and fall), no inflow connectivity[3,9] | | **Modified Proposed Action (Alternative 2)** |
| | | | Periodic stream connectivity for both inflow and outflow; assumed similar to Alt 1[4] | | **Alternative 3** |
| | | | Periodic stream connectivity for both inflow and outflow (assumed) | | **Alternative 4** |

**Notes:**
[1] Brown and Caldwell 2019a
[2] Brown and Caldwell 2019b
[3] Brown and Caldwell 2019c
[4] Brown and Caldwell 2019d
[5] Midas Gold 2017
[6] Ecosystem Sciences 2019b
[7] Ecosystem Sciences 2019a
[8] Ecosystem Sciences 2019c
[9] The exact details of stream connectivity to Meadow Creek proposed in Alternative 2 are unclear.

# 7.0 BULL TROUT USE OF OTHER LAKES

## 7.1 LOON LAKE IN THE SECESH RIVER SUBWATERSHED

Another documented population of bull trout exhibiting the adfluvial life history form within the SFSR watershed is known to occur at Loon Lake in the Secesh River subwatershed. Loon Lake is an approximately 60-hectare lake located 1.86 miles upstream of the confluence of Loon Creek and the Secesh River. In their study of bull trout within the Secesh River, Watry and Scarnecchia (2008) described Loon Lake as providing sufficient habitat for the adfluvial life history form of bull trout to persist in the subwatershed. The majority of bull trout in the study exhibited nonconsecutive-year migrations. Of the 71 radio-tagged bull trout, 7 made consecutive year migrations into the lake; in addition, six migrant bull trout exhibited consecutive year site fidelity to overwinter in the lake. The most common migration pattern observed was migratory adfluvial. Results of the study demonstrate that Loon Lake is a major contributor to the adfluvial and fluvial life histories of bull trout in the Secesh River. The authors also note that bull trout in the Secesh River have evolved with a persistent kokanee population in Loon Lake, which has provided a reliable food source from which to base exploratory migrations.

While the adfluvial life history pattern of bull trout was a major component of the stock found in the Secesh River subwatershed, it was a minor component of the bull trout stock found in the EFSFSR subwatershed, even though both stocks overlap in their respective migration routes along the lower SFSR (Hogen and Scarnecchia 2006; Watry and Scarnecchia 2008). The former point denotes the significance of Loon Lake as a continued stronghold for bull trout habitat in the Secesh River subwatershed, while the latter point indicates the resiliency of SFSR bull trout in adapting to changing environmental conditions and using appropriate resources as they become available—in this case, the creation of a new lake at the YPP.

## 7.2 REGIONAL EXAMPLES

Bull trout are known to inhabit lakes throughout their range in the Rocky Mountains. This section describes nine studies of bull trout utilizing lakes within the region as support for the possible use of the Hangar Flats pit lake by bull trout.

Downs et al. (2006) studied the migration patterns of an adfluvial bull trout population in Trestle Creek, a tributary to Lake Pend Oreille in northern Idaho. Emigration of juveniles occurred in two pulses, one in spring that was associated with snowmelt runoff and increasing water temperatures and a second in fall as stream temperatures dropped and fall rains began (Downs et al. 2006). Also, based on the results of their study, Downs et al. (2006) concluded that age-0 bull trout do not appear to survive well in lake environments, as no age-0 bull trout were detected returning to spawn in Trestle Creek during their multi-year study.

Barnett and Paige (2013) studied an adfluvial bull trout population in Chester Morse Lake, Washington, a fairly large reservoir, between 2006 and 2011. Approximately 96 percent of the bull trout made multiple trips between the lake and the upstream river during the spawning season (Barnett and Paige 2013). Bull trout also were found to be eating in both the littoral zone (near shore) and in deep water of the lake (Barnett and Paige 2013).

Fraley and Shephard (1989) studied adfluvial-lacustrine and fluvial bull trout in the Flathead Lake and River system in Montana. The diet of these bull trout consisted almost entirely of fish and included whitefish, kokanee, and nongame fish species as primary components (Fraley and

Shephard 1989).In addition, the authors found that subadult bull trout used pools more frequently than runs, riffles, or pocket water (Fraley and Shephard 1989).

Tennant et al. (2016) investigated a lacustrine-adfluvial bull trout population in the Quartz Lake Drainage, near Glacier National Park, Montana. Bull trout in this drainage were shown to exhibit short distance spawning migrations (Tennant et al. 2016). Bull trout were shown to spawn in smaller tributaries during the fall in places with low stream velocity, mild (5-9 degree Celsius) temperatures, and abundant gravel and cobble substrates (Tennant et al. 2016). Young bull trout presence in the smaller tributaries was positively correlated with slow water and habitat unit and negatively correlated with stream gradient and coarse substrate (Tennant et al. 2016).

Weigel et al. (2017) studied a bull trout population in Deadwood Reservoir, Idaho. The authors found that bull trout typically utilized relatively shallow reservoir habitat (≤6.6 feet depth), and also that their diet consisted mainly of cottus and cyprinid fishes, despite the presence of numerous salmonid prey species present in the reservoir (Weigel et al. 2017). In general, bull trout utilized Deadwood Reservoir longer when reservoir surface elevations were higher and water temperatures were cooler (Weigel et al. 2017).

Maret and Schultz (2013) studied bull trout found in Arrowrock Reservoir in Idaho to determine summertime movement and habitat use within the reservoir. The water surface temperature at each fish detection location ranged from 6.0 to 16.2°C (Maret and Schultz 2013). Bull trout were primarily detected in deep-water habitat, at an average depth of 59.4 feet (Maret and Schultz 2013). The last bull trout was detected in early June, suggesting that fish used little, if any, summertime habitat within the reservoir (Maret and Schultz 2013). The authors noted that thermal refuge during this study appeared to be limited based on scarcity of water that was 15°C and cooler (Maret and Schultz 2013).

In another study of the bull trout population in and around Arrowrock Reservoir, Monnot et al. (2008) found that the rate of migration of bull trout (large and small) was slowed by greater stream discharge; the authors also determined that large bull trout were more likely than small bull trout to migrate rapidly downstream to Arrowrock Reservoir.

Schiff et al. (2005) studied a bull trout population found in the North Fork of the Clearwater River basin, mainly in Dworshak Reservoir, Idaho, over a period of 5 years. Most tagged adult bull trout migrated out of the reservoir during May and June en route to the upper North Fork or Little North Fork Clearwater Rivers or associated tributaries to spawn (Schiff et al. 2005). Mean upstream migration distance, from tagging location, was 41.9 miles, with the farthest being 147.4 miles (Schiff et al. 2005). Diet samples collected from bull trout during the spring and fall indicated that bull trout switched their prey from rainbow trout, whitefish, and fish eggs during the spring to kokanee during the fall (Schiff et al. 2005). The authors of the study found that the majority of radio-tagged bull trout returned to the reservoir after spawning in the fall to overwinter in the reservoir. The average distance that bull trout traveled within Dworshak Reservoir was 35.2 miles.

# 8.0 DISCUSSION AND CONCLUSION

Bull trout currently use the YPP, an artificial lake that is a legacy of past mining activities at the mine site. Recent investigations indicate that adfluvial bull trout overwinter in the YPP lake and migrate downstream to spawn in smaller tributaries (Hogen and Scarnecchia 2006). They generally leave the lake in June and return after spawning in the fall to overwinter in the lake. However, bull trout likely use the lake year-round, as they have been documented in the lake in May, July, and September (Brown and Caldwell 2019a). The approximately 5-acre YPP has year-round passage into and out of the lake at the outlet, but upstream passage is blocked by a riffle/cascade that is a presumed fish barrier. Fish from upstream of the lake are presumed to pass the cascade and enter the lake as potential prey fish for the highly piscivorous adult bull trout in the lake. A population of whitefish presumably provides additional food base for larger bull trout. The lake averages about 30 feet in depth and maintains temperatures that are functioning appropriately based on Forest Service standards for most life stages, with the exception of spawning and incubation, which are bull trout life stages that do not appear to occur in the lake.

The proposed action and all the alternatives would involve the filling of YPP and the permanent loss of its habitat. The proposed project would create a new lake at Hangar Flats pit, which would be filled with water approximately 20 years following the loss of YPP habitat. In alternatives 1,3 and 4, Meadow Creek and the East Fork of Meadow Creek would be routed through the Hangar Flats pit lake. The Hangar Flats pit lake would be larger than the YPP, with a surface area of 67.8 acres and a depth of 590 feet. The size of the lake in comparison to the flow of Meadow Creek is predicted to result in warmer surface temperatures and a stratification of the lake's temperature profile in the summer months. The result would be warmer temperatures in the summer and fall at the outlet than current temperatures at the YPP outlet. Due to the seasonally low discharges out of the Hangar Flats pit lake, fish passage into and out the lake would likely be periodic during the low-flow seasons. Upstream of the lake, bull trout would have a short reach below the TSF/DRSF that could be accessed, but the TSF face would be a barrier to upstream movement. the Hangar Flats pit lake would have less available fish habitat upstream of it than the current YPP, influencing the number of fish that could potentially move into the lake from upstream. The mountain whitefish food base in YPP may not exist in the Hangar Flats pit lake, based on whitefish life history. Under Alternative 2, Meadow Creek would only be connected to the Hangar Flats pit lake during high-water events or high-flow periods. Under this alternative, the lake would be the most isolated.

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# Appendix J-10: Fish Relative Species Abundance and Density

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# J.10 FISH RELATIVE SPECIES ABUNDANCE AND DENSITY

The four special status salmonids of management concern are widely distributed in the South Fork Salmon River subbasin of the analysis area, including the mine site subwatersheds. The Environmental Impact Statement analysis on these fish species focuses primarily, but not exclusively, on the expected impacts that may occur at the mine site itself. The relative fish community abundance of each species differs downstream of the Yellow Pine pit when compared to upstream of the Yellow Pine pit due to habitat differences and altitude influences. This section presents information on the relative abundance of the four salmonid species both downstream and upstream of the Yellow Pine pit. Next, the section presents a quantitative evaluation of the salmonid densities at monitoring locations both downstream and upstream of the Yellow Pine pit. The density of fish, measured both as areal density (number of fish per square meter of wetted streambed) or linear density (number of fish per meter of stream length) provides a means of quantifying the potential impacts to these resources during the Stibnite Gold Project (SGP) construction, operations, and closure and reclamation. Finally, this section summarizes the salmonid abundance estimates for the Yellow Pine pit. The analysis results are of particular importance when evaluating the species of fish and their abundance when stream channels and the Yellow Pine pit are dewatered and fish salvage operations must be implemented. How many fish are potentially impacted?

Some terminology definitions are useful in understanding the information that is presented. Specifically:

- **Relative species abundance** is a component of biodiversity and refers to how common or rare a species is relative to other species in a defined location or community. Different fish populations in a community exist in relative proportions to one another.
- A **fish population** is defined as a group of individuals of the same species that are spatially, genetically, or demographically separated from other groups. For example, Section 3.12.4.3.4, Distribution, states that there are five major population groups for the Snake River spring/summer Chinook salmon Evolutionarily Significant Unit, one of which includes the South Fork Salmon River Major Population Group. This group contains four independent populations, one of which is the East Fork South Fork Salmon River (EFSFSR) population, which includes the SGP mine site subwatersheds.
- **Fish density** refers to the number of individuals per unit area (i.e., square meters) or volume (cubic meters). In this document the term “linear density” also is discussed. Linear density as used herein is the number of fish per linear length of stream, typically per meter. Because the wetted area of streams varies with flow, it is useful to have a metric that is non-flow dependent, (i.e., stream length). This concept is helpful when estimating the number of fish that might be impacted by stream channel dewatering and salvage operations.

## J.10.1 Methodology

Fish abundance data collected during snorkel surveys in the mine site area in 2015 were used in conjunction with fish mark-recapture survey data collected at the same sites at the same time to develop fish relative abundance and density estimates. The objective of comparing snorkeling abundance data to mark-recapture data was to develop a metric that could be applied to the large number of snorkeling sites evaluated from 2012 to 2015, thereby improving the ability to evaluate SGP impacts on the four salmonid species.

### J.10.1.1 Snorkel Surveys

Fish snorkeling surveys have been conducted routinely within the mine site subwatersheds and the adjacent downstream subwatershed (No Mans Creek-EFSFSR) over many years. These surveys provide a general index to the relative abundance of the four special status fish at various survey sites. MWH Americas, Inc. (MWH) (2017) reported the results of snorkeling fish counts conducted between 2012 and 2015 at 11 sites downstream of the Yellow Pine pit and 16 sites upstream of the Yellow Pine pit within the three subwatersheds (No Mans Creek, Headwaters EFSFSR, and Sugar Creek).

Snorkel surveys are not typically considered a preferred method for quantifying the number of fish that are present in a stream. Snorkeling estimates of fish abundance typically underestimate true fish abundance because they rely on diver observations. The ability to identify, count, and estimate the size of fish while snorkeling depends on a wide range of factors including, among many, the skill of the diver, size of the stream, behavior of each fish species, size of fish, water clarity. In addition, there are factors that make it difficult to see fish, for example, large woody debris, large rocks, and vegetation. Snorkeling abundance estimates can be improved if they can be reasonably adjusted (or calibrated) to a more statistically robust abundance estimation method. Fish mark-recapture abundance estimates provide that opportunity.

### J.10.1.2 Mark-Recapture

Because three of the salmonid species are listed under the Endangered Species Act, it is difficult to obtain regulatory permits that use more traditional, but more invasive, fish sampling methods like electrofishing and mark-recapture. However, in 2015 the Payette National Forest was able to conduct a limited program of electrofishing and mark-recapture at nine established fish survey sites. As noted previously, if a metric could be developed to improve the utility of the snorkel survey data, then the ability to evaluate SGP impacts would be enhanced.

During July 2015, nine sites in the two mine site subwatersheds (Headwaters EFSFSR and Sugar Creek) were sampled using electrofishing techniques (GeoEngineers 2017). Captured salmonids were marked with a fin clip and released. Approximately 24 hours later each site was resampled during electrofishing and the number of recaptured marked fish recorded. All captured salmonids were grouped together for purposes of estimating population size regardless of fish size or species. Mark-recapture estimates of the snorkel site fish abundance were calculated using the Chapman (Chapman 1951) estimator.

## J.10.2 Results

The 2015 methods comparison program is summarized first, followed by the application of the results to all of the snorkel survey sites and years of sampling.

### J.10.2.1 Snorkeling Comparison to Mark-Recapture in 2015

#### J.10.2.1.1 SNORKEL SURVEYS

**Table J.10-1** summarizes the results of the snorkel surveys at each of the nine sites evaluated.

**Table J.10-1 Salmonid Density Estimates by Location for the Mine Site Subwatersheds for July 21-25, 2015 as Measured by Snorkel Surveys**

| Site ID (Downstream to Upstream) | Stream | Total Salmonid Density (number/m$^2$) | Observed Species Densities (number/m$^2$) (Percentage Species Composition at Site) | | | |
|---|---|---|---|---|---|---|
| | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | Westslope Cutthroat Trout |
| **Downstream of the Yellow Pine Pit** | | | | | | |
| MWH-019 | Cinnabar Creek | 0.125 | 0 | 0 | 0.119 (95) | 0.006 (5) |
| MWH-018 | Sugar Creek | 0.110 | 0 | 0.005 (4.8) | 0.084 (76.2) | 0.021 (19.1) |
| **Upstream of the Yellow Pine Pit** | | | | | | |
| MWH-011 | EFSFSR | 0.026 | 0 | 0 | 0 | 0.026 (100) |
| MWH-014 | Meadow Creek | 0.030 | 0 | 0 | 0 | 0.030 (100) |
| MWH-047 | Meadow Creek | 0.018 | 0 | 0 | 0 | 0.018 (100) |
| MWH-016 | Meadow Creek | 0.086 | 0 | 0 | 0 | 0.086 (100) |
| MWH-034 | Meadow Creek | 0.082 | 0 | 0 | 0 | 0.082 (100) |
| MWH-025 | EFSFSR | 0.216 | 0 | 0 | 0 | 0.216 (100) |
| MWH-026 | EFSFSR | 0.076 | 0 | 0 | 0 | 0.076 (100) |

Table Source: GeoEngineers 2017; MWH 2017

Table Notes:

Sampling locations at each Site ID consisted of 100-meter-long reaches.

Gray shading for MWH-018 indicates estimate that may be subject to potential statistical bias due to low percentage of fish marked relative to the abundance estimate, or due to the low number of recaptured fish.

m2 = meter squared

EFSFSR = East Fork South Fork Salmon River

Some observations on the results of the 2015 snorkel survey are important (**Table J.10-1** and MWH 2017: Appendix 6):

- No Chinook salmon were observed at any of the nine sites;
- Only one steelhead/rainbow trout was observed at site MWH-018 (Sugar Creek) making a mark-recapture estimate impossible due to sample size;
- Bull trout were observed at two sites downstream of the Yellow Pine pit (MWH-018 and MWH-019) where they were the predominate species numerically; and
- The only fish observed upstream of the Yellow Pine pit was the westslope cutthroat trout where it occurred at all seven of the study sites (100% species composition).

The implication of the 2015 snorkel survey is that the mark-recapture estimates for fish upstream of the Yellow Pine pit are all based on westslope cutthroat trout and that downstream of the Yellow Pine pit the estimates are substantially based on bull trout with a minor cutthroat trout component.

### J.10.2.1.2 MARK-RECAPTURE ESTIMATES

**Table J.10-2** summarizes the total salmonid community abundance and densities for the 2015 study. Estimates for individual species were not determined.

**Table J.10-2 Total Fish Abundance and Density Estimates by Site for 2015 based on Mark-Recapture Abundance Estimates**

| Site ID (Downstream to Upstream) | Stream | Total Fish Abundance Estimate of Reach (n) | Total Wetted Surface Area of Reach ($m^2$) | Estimated Fish Density of Reach (n fish/$m^2$) | Estimated Fish Linear Density of Reach (n fish/m) |
|---|---|---|---|---|---|
| **Downstream of the Yellow Pine Pit** | | | | | |
| MWH-019 | Cinnabar Creek | 35 | 280 | 0.125 | 0.350 |
| MWH-018 | Sugar Creek | 65 | 590 | 0.110 | 0.650 |
| **Upstream of the Yellow Pine Pit** | | | | | |
| MWH-011 | EFSFSR | 15 | 570 | 0.026 | 0.150 |
| MWH-014 | Meadow Creek | 14 | 460 | 0.030 | 0.140 |
| MWH-047 | Meadow Creek | 8 | 440 | 0.018 | 0.080 |
| MWH-016 | Meadow Creek | 31 | 360 | 0.086 | 0.310 |

| Site ID (Downstream to Upstream) | Stream | Total Fish Abundance Estimate of Reach (n) | Total Wetted Surface Area of Reach ($m^2$) | Estimated Fish Density of Reach (n fish/$m^2$) | Estimated Fish Linear Density of Reach (n fish/m) |
|---|---|---|---|---|---|
| MWH-034 | Meadow Creek | 27 | 330 | 0.082 | 0.270 |
| MWH-025 | EFSFSR | 97 | 450 | 0.216 | 0.970 |
| MWH-026 | EFSFSR | 26 | 340 | 0.076 | 0.260 |

Table Source: GeoEngineers 2017; MWH 2017

Table Notes:

Sampling locations at each Site ID consisted of 100-meter-long reaches.

Gray shading for MWH-018 indicates estimate that may be subject to potential statistical bias due to low percentage of fish marked relative to the abundance estimate, or due to the low number of recaptured fish.

$m^2$ = meter squared

EFSFSR = East Fork South Fork Salmon River

While limited to 2015, the results summarized in **Table J.10-2** indicate the following:

- Abundance estimates for all fish species combined are small, especially upstream of the Yellow Pine pit;
- The fish density estimates for MWH-011 and MWH-014 may overwhelmingly reflect Chinook salmon densities if the snorkeling relative abundances are accurate;
- The fish density estimates for MWH-034, MWH-13, MWH-025, and MWH-026 may overwhelmingly reflect westslope cutthroat trout densities if the snorkeling relative abundances are accurate; and
- The abundance and density estimates appear to reflect low fish stream productivity at all sites studied, with the exception of Chinook salmon upstream of the Yellow Pine pit where translocations of spawning Chinook salmon from Johnson Creek periodically occurs.

Because streamflows are variable over an annual hydrological cycle, fish densities also will vary. For example, if it is assumed that the total salmonid community does not numerically change during a period of time at a specific study site 100 meters in length, but streamflows do change, then the fish densities also will change per square meter. Increased or reduced flow will change the wetted area of the reach and, therefore, fish density. Linear densities, for example, 100 fish per 100 meters of reach length, provide a statistic that eliminates the bias of areal densities that are changing due to flow variability.

### J.10.2.1.3 SNORKEL SURVEY VERSUS MARK-RECAPTURE

**Table J.10-3** compares the number of salmonids observed from snorkeling versus the mark-recapture estimate at all nine sites.

**Table J.10-3 Salmonid Abundance Estimates by Sampling Technique and Site**

| Site ID (Downstream to Upstream) | Stream | Fish Sampling Technique | | Ratio (snorkeling/mark-recapture) |
|---|---|---|---|---|
| | | Snorkeling (number fish observed in reach) | Mark-Recapture (population estimate for reach) | |
| **Downstream of the Yellow Pine Pit** | | | | |
| MWH-019 | Cinnabar Creek | 20 | 35 | 0.57 |
| MWH-018 | Sugar Creek | 21 | 65 | 0.32 |
| **Upstream of the Yellow Pine Pit** | | | | |
| MWH-011 | EFSFSR | 4 | 15 | 0.27 |
| MWH-014 | Meadow Creek | 6 | 14 | 0.43 |
| MWH-047 | Meadow Creek | 3 | 8 | 0.38 |
| MWH-016 | Meadow Creek | 7 | 31 | 0.23 |
| MWH-034 | Meadow Creek | 9 | 27 | 0.33 |
| MWH-025 | EFSFSR | 21 | 97 | 0.22 |
| MWH-026 | EFSFSR | 10 | 26 | 0.38 |
| Mean Ratio | | | | 0.35 |

Table Source: GeoEngineers 2017; MWH 2017

Table Notes:

Sampling locations at each Site ID consisted of 100-meter-long reaches.

EFSFSR = East Fork South Fork Salmon River

Snorkeling estimates of fish abundance were 22 to 57 percent lower than mark-recapture estimates, with a mean value of 35 percent, largely influenced by westslope cutthroat trout upstream of the Yellow Pine pit.

## J.10.3 Fish Relative Species Abundance and Composition, 2012-2015

A snorkeling adjustment value of 35 percent was applied to the unadjusted mean snorkeling census data for 27 survey sites collected from 2012 to 2015 (**Table J.10-4**) to provide an estimate of what the mark-recapture results may have been in estimating abundance (MWH 2017: Appendix 6).

**Table J.10-4** summarizes the adjusted relative fish abundance numbers and relative percentage composition for the four special status species at 27 locations from 2012 to 2015. A number of observations are apparent from the adjusted snorkeling survey results:

- Fish relative species abundance is highly variable at different sites during the same sampling year depending on location, even within the same stream;

- Fish species composition is much more diverse downstream of Yellow Pine pit compared to areas upstream, and all four salmonid species of management concern were observed downstream of the Yellow Pine pit;
- In Sugar Creek, bull trout was the most abundant species observed and it was found in large numbers throughout the creek and its tributaries;
- Chinook salmon and steelhead are more abundant in the EFSFSR than in the Sugar Creek subwatershed;
- Chinook salmon and steelhead occur naturally downstream of the Yellow Pine pit; however, Chinook salmon juveniles are likely to be supplemented by downstream out-migrants from upstream of the Yellow Pine pit;
- Chinook salmon were not translocated upstream of the Yellow Pine pit in 2014 (**Table J.10-4**). No juvenile fish were observed in snorkel surveys upstream of the Yellow Pine pit in 2015 (MWH 2017: Appendix 6).
- Chinook salmon would not currently occur upstream of the Yellow Pine pit without the periodic translocations conducted by the Idaho Department of Fish and Game and the Nez Perce Tribe;
- Westslope cutthroat trout would be the most widespread and numerically abundant native trout species upstream of the Yellow Pine pit, if it were not for the periodic translocations of Chinook salmon;
- Steelhead do not occur upstream of the Yellow Pine pit barrier; and
- Bull trout are not common upstream of the Yellow Pine pit and are only observed using snorkeling surveys in the Meadow Creek drainage.

**Table J.10-4 Adjusted Salmonid Species Relative Abundance and Percentage Composition at Snorkel Survey Sites within and Adjacent to the Mine Site Subwatersheds from 2012 to 2015**

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Adjusted Mean Site Abundance [n] and (Mean Site Percentage Composition) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|
| | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | West-slope Cutthroat Trout |
| **Downstream of the Yellow Pine Pit** | | | | | | | |
| MWH-033 | EFSFSR | Upstream of Johnson Creek | 2013 | 170.1 (48.3) | 117.4 (33.3) | 14.8 (4.2) | 50.0 (14.2) |
| MWH-032 | EFSFSR | Downstream of Tamarack Creek | 2013, 2014 | 67.5 (40.6) | 57.4 (34.6) | 16.2 (9.8) | 25.0 (15.0) |

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Adjusted Mean Site Abundance [n] and (Mean Site Percentage Composition) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|
| | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | West-slope Cutthroat Trout |
| MWH-017 | Tamarack Creek (control site) | Confluence with EFSFSR | 2012-2014 | 9.4 (17.9) | 18.9 (35.9) | 3.2 (6.0) | 21.2 (40.2) |
| MWH-009 | EFSFSR | Downstream of Sugar Creek | 2012, 2014 | 47.2 (40.7) | 39.8 (34.3) | 17.6 (15.1) | 11.5 (9.9) |
| MWH-029 | Sugar Creek | Lower Reach | 2012-2014 | 11.2 (22.3) | 10.4 (20.5) | 15.8 (31.2) | 13.0 (25.9) |
| MWH-010 | Sugar Creek | Middle Reach | 2012-2014 | 12.2 (19.7) | 12.6 (20.4) | 25.2 (40.9) | 11.7 (19.1) |
| MWH-018 | Sugar Creek | Upper Reach | 2012-2015 | 1.7 (5.3) | 5.4 (17.0) | 22.3 (70.2) | 2.4 (7.4) |
| MWH-020 | Sugar Creek | Upstream of Cinnabar Creek | 2012-2013 | 0.8 (2.3) | 2.0 (6.8) | 27.0 (90.9) | Not Present |
| MWH-019 | Cinnabar Creek | Lower Reach | 2012-2015 | Not Present | Not Present | 21.9 (94.2) | 1.4 (5.8) |
| MWH-021 | Cane Creek | Lower Reach | 2012-2013 | Not Present | Not Present | 17.6 (100) | Not Present |
| MWH-030 | EFSFSR | Upstream of Sugar Creek | 2012-2014 | 54.4 (47.8) | 38.2 (33.6) | 9.0 (7.9) | 12.2 (10.7) |
| **Upstream of the Yellow Pine Pit** | | | | | | | |
| MWH-022 | EFSFSR | Upstream of Midnight Creek | 2012-2014 | 378.0 (98.5) | Not Present | Not Present | 5.8 (1.5) |
| MWH-023 | Fiddle Creek | Lower Reach | 2012-2014 | Not Present | Not Present | Not Present | 17.6 (100) |
| MWH-024 | Fiddle Creek | Middle Reach | 2012 | Not Present | Not Present | Not Present | 9.4 (100) |
| MWH-011 | EFSFSR | Near Mining Camp | 2012-2015 | 206.6 (93.7) | Not Present | Not Present | 13.8 (6.3) |
| MWH-031 | Meadow Creek | Upstream of East Fork Confluence | 2012 | 674.0 (96.3) | Not Present | 1.4 (0.2) | 24.3 (3.5) |
| MWH-014 | Meadow Creek | Stibnite Mine Site | 2013-2015 | 402.0 (97.8) | Not Present | Not Present | 9.0 (2.2) |
| MWH-028 | EFMC | Lower Reach | 2012-2014 | 599.0 (98.4) | Not Present | Not Present | 9.4 (1.6) |

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Adjusted Mean Site Abundance [n] and (Mean Site Percentage Composition) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|
| | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | West-slope Cutthroat Trout |
| MWH-27 | EFMC | Upper Reach | 2012-2014 | Not Present | Not Present | Not Present | 4.3 (100) |
| MWH-015 | Meadow Creek | Downstream of DRSF | 2012-2014 | 2.2 (10.6) | Not Present | 2.7 (12.8) | 16.2 (76.6) |
| MWH-047 | Meadow Creek | Upper DRSF | 2013-2015 | 7.2 (26.7) | Not Present | 0.9 (3.3) | 18.9 (70.0) |
| MWH-016 | Meadow Creek | Tailings Storage Facility | 2012, 2014-2015 | Not Present | Not Present | 1.8 (2.8) | 63.4 (97.2) |
| MWH-034 | Meadow Creek | Upper Reach | 2013, 2015 | Not Present | Not Present | 1.4 (5.5) | 23.6 (94.5) |
| MWH-013 | EFSFSR | Near Mining Camp | 2012-2014 | 5.8 (18.8) | Not Present | Not Present | 25.2 (81.2) |
| MWH-025 | EFSFSR | Middle Reach | 2012-2013, 2015 | 8.6 (17.4) | Not Present | Not Present | 40.5 (82.6) |
| MWH-044 | EFSFSR | Stibnite Lodge | 2013 | Not Present | Not Present | Not Present | 60.8 (100) |
| MWH-026 | EFSFSR | Stibnite Lodge | 2012-2015 | Not Present | Not Present | Not Present | 14.2 (100) |

Table Source: MWH (2017: Appendix 6)

Table Notes:

Site IDs consisted of reaches ranging in length from 22 to 100 meters in length with most reaches set at 100 meters.

DRSF = Development Rock Storage Facility

EFSFSR = East Fork South Fork Salmon River

EFMC = East Fork Meadow Creek

## J.10.4 Fish Density, 2012-2015

As stated previously, estimates of existing densities of the four special status fish of management concern can be used to estimate the impacts from SGP construction, operation, and closure.

### J.10.4.1 Stream Estimates

Several approaches to estimating salmonid densities were applied to the mine site subwatersheds and these approaches are described in detail in MWH 2017 and GeoEngineers 2017. In summary, it was determined that fish densities based on the mark-recapture method

represent fair to good estimates of the fish density for most stream reaches evaluated (GeoEngineers 2017). Note that this analysis does not calculate the population size of the South Fork Salmon River Major Population Group. Rather, it determines fish densities that can be used to estimate the salmonid abundance at a specific stream reach at the time of sampling.

#### J.10.4.1.1 ESTIMATED STREAM FISH TOTAL DENSITIES

**Table J.10-5** summarizes the results adjusting the salmonid species areal and linear densities at snorkel survey sites within an adjacent to the mine site subwatersheds from 2012 to 2015.

In order to estimate the densities of each fish species for purposes of conducting impact assessments (Section 4.12) the densities presented in **Table J.10-5** are allocated among the four special-status species of management concern.

### J.10.4.2 Yellow Pine Pit Estimates

Mark-recapture studies were undertaken at the Yellow Pine pit in 2018 and 2019 to evaluate movements of salmonids and to estimate population abundances (Brown and Caldwell 2019, 2020). **Table J.10-6** summarizes the abundance estimate results. Detailed discussions are included in Brown and Caldwell (2019, 2020).

To the degree that abundance estimates are accurate, the results indicate limited abundance of these salmonids in the Yellow Pine pit. Brown and Caldwell (2019) notes that several hundred whitefish also were captured suggesting that the lake can support a large number of fish given suitable habitat.

**Table J.10-5 Adjusted Salmonid Species Areal and Linear Densities at Snorkel Survey Sites within and Adjacent to the Mine Site Subwatersheds from 2012 to 2015**

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Mean Site Length (m)/ Width (m) for Year(s) Sampled | Mean Fish Density - fish/m$^2$) and (Mean Fish Linear Density - fish/m) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | Westslope Cutthroat Trout |
| **Downstream of the Yellow Pine pit** | | | | | | | | |
| MWH-033 | EFSFSR | Upstream of Johnson Creek | 2013 | 100/14.1 | 0.121 (1.701) | 0.084 (1.174) | 0.011 (0.148) | 0.036 (0.500) |
| MWH-032 | EFSFSR | Downstream of Tamarack Creek | 2013, 2014 | 100/15.9 | 0.045 (0.675) | 0.038 (0.574) | 0.011 (0.162) | 0.017 (0.250) |
| MWH-017 | Tamarack Creek (control site) | Confluence with EFSFSR | 2012-2014 | 97/5.7 | 0.017 (0.097) | 0.034 (0.195) | 0.006 (0.032) | 0.038 (0.218) |
| MWH-009 | EFSFSR | Downstream of Sugar Creek | 2012, 2014 | 95.5/8.4 | 0.059 (0.495) | 0.050 (0.417) | 0.022 (0.184) | 0.014 (0.120) |
| MWH-029 | Sugar Creek | Lower Reach | 2012-2014 | 97/5.5 | 0.021 (0.116) | 0.019 (0.107) | 0.029 (0.162) | 0.024 (0.134) |
| MWH-010 | Sugar Creek | Middle Reach | 2012-2014 | 97/5.5 | 0.023 (0.125) | 0.024 (0.130) | 0.048 (0.260) | 0.022 (0.121) |
| MWH-018 | Sugar Creek | Upper Reach | 2012-2015 | 95.2/5.1 | 0.003 (0.018) | 0.011 (0.057) | 0.046 (0.234) | 0.005 (0.025) |
| MWH-020 | Sugar Creek | Upstream of Cinnabar Creek | 2012-2013 | 95.5/3.6 | 0.002 (0.007) | 0.006 (0.021) | 0.080 (0.283) | Not Present |
| MWH-019 | Cinnabar Creek | Lower Reach | 2012-2015 | 93/2.8 | Not Present | Not Present | 0.095 (0.236) | 0.006 (0.014) |
| MWH-021 | Cane Creek | Lower Reach | 2012-2013 | 55.5/3.0 | Not Present | Not Present | 0.107 (0.316) | Not Present |
| MWH-030 | EFSFSR | Upstream of Sugar Creek | 2012-2014 | 97/6.4 | 0.088 (0.561) | 0.062 (0.394) | 0.015 (0.093) | 0.020 (0.125) |

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Mean Site Length (m)/ Width (m) for Year(s) Sampled | Mean Fish Density - fish/m$^2$) and (Mean Fish Linear Density - fish/m) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | Westslope Cutthroat Trout |
| **Upstream of the Yellow Pine pit** | | | | | | | | |
| MWH-022 | EFSFSR | Upstream of Midnight Creek | 2012-2014 | 80.3/7.8 | 0.606 (4.707) | Not Present | Not Present | 0.009 (0.073) |
| MWH-023 | Fiddle Creek | Lower Reach | 2012-2014 | 97/2.0 | Not Present | Not Present | Not Present | 0.089 (0.181) |
| MWH-024 | Fiddle Creek | Middle Reach | 2012 | 22/2.0 | Not Present | Not Present | Not Present | 0.215 (0.430) |
| MWH-011 | EFSFSR | Near Mining Camp | 2012-2015 | 97.8/5.3 | 0.397 (2.113) | Not Present | Not Present | 0.027 (0.142) |
| MWH-031 | Meadow Creek | Upstream of East Fork Confluence | 2012 | 91/4.0 | 1.852 (7.407) | Not Present | 0.004 (0.015) | 0.067 (0.267) |
| MWH-014 | Meadow Creek | Stibnite Mine Site | 2013-2015 | 100/5.1 | 0.783 (4.020) | Not Present | Not Present | 0.018 (0.090) |
| MWH-028 | EFMC | Lower Reach | 2012-2014 | 97/2.4 | 2.573 (6.175) | Not Present | Not Present | 0.041 (0.097) |
| MWH-027 | EFMC | Upper Reach | 2012-2014 | 97/1.6 | Not Present | Not Present | Not Present | 0.027 (0.044) |
| MWH-015 | Meadow Creek | Downstream of DRSF | 2012-2014 | 97/4.8 | 0.005 (0.023) | Not Present | 0.006 (0.028) | 0.035 (0.167) |
| MWH-047 | Meadow Creek | Upper DRSF | 2013-2015 | 100/4.3 | 0.017 (0.072) | Not Present | 0.002 (0.009) | 0.044 (0.189) |
| MWH-016 | Meadow Creek | Tailings Storage Facility | 2012, 2014-2015 | 97/3.9 | Not Present | Not Present | 0.005 (0.018) | 0.168 (0.654) |
| MWH-034 | Meadow Creek | Upper Reach | 2013, 2015 | 100/3.2 | Not Present | Not Present | 0.004 (0.013) | 0.075 (0.236) |

| Site ID (Downstream to Upstream) | Stream | Location | Year(s) Sampled | Mean Site Length (m)/ Width (m) for Year(s) Sampled | Mean Fish Density - fish/$m^2$) and (Mean Fish Linear Density - fish/m) (daytime surveys only-all fish size classes combined) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Chinook Salmon | Steelhead/ Rainbow Trout | Bull Trout | Westslope Cutthroat Trout |
| MWH-013 | EFSFSR | Near Mining Camp | 2012-2014 | 95.7/4.3 | 0.014 (0.061) | Not Present | Not Present | 0.061 (0.263) |
| MWH-025 | EFSFSR | Middle Reach | 2012-2013, 2015 | 97/4.4 | 0.020 (0.088) | Not Present | Not Present | 0.094 (0.418) |
| MWH-044 | EFSFSR | Stibnite Lodge | 2013 | 100/3.0 | Not Present | Not Present | Not Present | 0.202 (0.608) |
| MWH-026 | EFSFSR | Stibnite Lodge | 2012-2015 | 97.8/3.3 | Not Present | Not Present | Not Present | 0.044 (0.145) |

Table Source: MWH (2017: Appendix 6)

Table Notes:

Site IDs consisted of reaches ranging in length from 22 to 100 meters in length with most reaches set at 100 meters.

DRSF = Development Rock Storage Facility

EFSFSR = East Fork South Fork Salmon River

EFMC = East Fork Meadow Creek

**Table J.10-6 Salmonid Population Abundance Estimates for the Yellow Pine Pit in 2018**

| Species | Abundance Estimate (n) by Month | | |
|---|---|---|---|
| | May | July | September |
| Bull Trout | 57 | 104 | 82 |
| Westslope Cutthroat Trout | 48 | 48 | 33 |
| Chinook Salmon | No Tagged Juvenile Fish Returned | | |

Table Source: Brown and Caldwell 2019

Table Notes:

Four rainbow trout were tagged but the sample size was too small for an abundance estimate.

During 2019, sampling was continued on Yellow Pine pit during July, August, and September. The population estimates are provided in **Table J.10-7** (Brown and Caldwell 2020).

**Table J.10-7 Salmonid Population Abundance Estimates for the Yellow Pine Pit in 2019**

| Species | Abundance Estimate (n) by Month | | |
|---|---|---|---|
| | July | August | September |
| Bull Trout | 104 | 45 | 47 |
| Westslope Cutthroat Trout | 67 | 80 | 101 |
| Chinook Salmon | No Tagged Juvenile Fish Returned | | |

Table Source: Brown and Caldwell 2020

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Brown and Caldwell

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