Appendix G5

Evaluating Adult Salmonid and Sturgeon Passage Potential for Multiple Modified Fremont Weir Configurations: Application of the Yolo Bypass Passage for Adult Salmonids and Sturgeon (YBPASS) Tool

This page left blank intentionally.

State of California
California Natural Resources Agency
Department of Water Resources

Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project

Evaluating Adult Salmonid and Sturgeon Passage Potential for Multiple Modified Fremont Weir Configurations:

Application of the *Yolo Bypass Passage for Adult Salmonids and Sturgeon (YBPASS) Tool*

Technical Memorandum

August 2017

Suggested Citation

DWR (California Department of Water Resources). 2017. Evaluating adult salmonid and sturgeon passage potential for multiple modified Fremont Weir configurations: application of the *Yolo Bypass Passage for Adult Salmonid and Sturgeon (YBPASS) Tool*. Technical memorandum for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project. Sacramento, California.

State of California
Edmund G. Brown, Jr., Governor

California Natural Resources Agency
John Laird, Secretary for Natural Resources

Department of Water Resources
Grant Davis, Director

Cindy Messer
Chief Deputy Director

Division of Environmental Services
Dean Messer, Chief

This report was prepared under the direction of

James Newcomb
Chief, Habitat Restoration Section

by

Sheena Holley ..... Environmental Scientist

with assistance from

Edmund Yu ..... Environmental Scientist
Joshua Martinez ..... Environmental Scientist
Jared Frantzich ..... Environmental Scientist
Francesca Nurmi ..... Water Resources Engineer
Joshua Urias ..... Water Resources Engineer
Rajat Saha ..... Water Resources Engineer

and additional support from

Chris Campbell, cbec, inc. ..... Ecohydrologist
Sridhar Ponangi, cbec, inc ..... Engineer
Brinton Swift, HDR ..... Water Resources Engineer
Rusty Jones, HDR ..... Water Resources Engineer
Joshua Israel, United States Bureau of Reclamation ..... Fish Biologist

Table of Contents

List of Figures

List of Tables

Acronyms and Abbreviations

2009 Biological Opinion	National Marine Fisheries Service's Biological Opinion and Conference Opinion on the Long-term Operations of the Central Valley Project and the State Water Project
CDEC	Department of Water Resources California Data Exchange Center
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife
cfs	cubic feet per second
DPS	distinct population segment
DWR	California Department of Water Resources
EIS/EIR	Environmental Impact Statement/Environmental Impact Report
ESU	evolutionarily significant unit
FETT	Yolo Bypass Fisheries and Engineering Technical Team
HEC-RAS	Hydrologic Engineering Center's River Analysis System
NAVD88	North American Vertical Datum of 1988
NMFS	National Marine Fisheries Service
Project	Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project
Reclamation	United States Department of the Interior, Bureau of Reclamation
RPA	reasonable and prudent alternative
TM	Technical Memorandum
TUFLOW	2014 Yolo Bypass Two-dimensional Unstable Flow Hydrodynamic Model
WY	water year
YBPASS Tool	*Yolo Bypass Passage for Adult Salmonids and Sturgeon Tool*

1. Background

During both flooded and non-flooded conditions, adult salmonids and acipenserids migrate upstream through the Yolo Bypass via the Cache Slough complex (Harrell and Sommer 2003). When the Fremont Weir is not overtopping with Sacramento River flows, these adult anadromous fish do not have access to upstream spawning habitat in the Sacramento River. Through modifications at the Fremont Weir, the California Department of Water Resources (DWR) and the United States Department of the Interior, Bureau of Reclamation (Reclamation) plan to improve connectivity between the Sacramento River and the Yolo Bypass. With improved river-floodplain connectivity, DWR and Reclamation plan to achieve a reduction in migratory delays and loss of federally listed fish species within the Yolo Bypass.

As part of the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project (Project), DWR and Reclamation are working to improve fish passage and increase floodplain inundation in the Yolo Bypass (DWR and Reclamation 2012). A gated structure (gated notch), or multiple gated structures, in the Fremont Weir would provide adult fish migrating upstream with a means of returning to the Sacramento River while also allowing flows to enter the Yolo Bypass to provide floodplain rearing habitat for juvenile salmonids. The Project would allow DWR and Reclamation to satisfy Reasonable and Prudent Alternative (RPA) Action I.7 (improved fish passage) and Action I.6.1 (increased floodplain rearing habitat) of the 2009 National Marine Fisheries Service's (NMFS's) Biological Opinion and Conference Opinion on the Long-term Operations of the Central Valley Project and the State Water Project (2009 Biological Opinion).

The Project will be achieved through the construction of a gated notch, or multiple gated notches, at the Fremont Weir and a new downstream transport channel terminating at the Tule Pond. The Project may also include the construction of water control structures within the Yolo Bypass with bypass channels allowing for fish passage. Although the Project has dual purposes, the emphasis of this Technical Memorandum (TM) is on adult fish passage improvements (RPA Action I.7) rather than juvenile entrainment onto the Yolo Bypass (RPA Action I.6.1).

To evaluate adult fish passage improvements, DWR and Reclamation formed the interagency Yolo Bypass Fisheries and Engineering Technical Team (FETT). Using criteria developed by FETT (DWR 2017), DWR developed the *Yolo Bypass Passage for Adult Salmonids and Sturgeon* (*YBPASS*) *Tool*, which is a compilation of files generated in Microsoft Excel for water years (WYs) 1997–2012. Specifically, the goal of this tool is to use modeled water depths and velocities to determine the frequency that adult fish passage criteria are met for planned facilities at the Fremont Weir.

This document provides the methods and results of evaluating adult fish passage performance for the proposed alternatives at the Fremont Weir that are evaluated in the Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for the Project. Multiple variations of gated structures, with varying widths and depths, are being explored in an effort to optimize a design for adult fish passage through the Fremont Weir. The broad array of alternatives proposed necessitated the development and use of the *YBPASS Tool* to evaluate adult fish passage criteria for each configuration.

2. Target Species

The NMFS 2009 Biological Opinion focuses on passage constraints in the Yolo Bypass for four federally listed anadromous species: Sacramento River winter-run Chinook Salmon evolutionarily significant unit (ESU) *Oncorhynchus tshawytscha*, Central Valley spring-run Chinook Salmon ESU *O. tshawytscha*, California Central Valley distinct population segment (DPS) steelhead *O. mykiss*, and Southern DPS of North American Green Sturgeon *Acipenser medirostris*. Under the federal Endangered Species Act, winter-run Chinook Salmon are listed as Endangered while the remaining three species are listed as Threatened. Because these species are known to utilize the Yolo Bypass floodplain during adult migration, their passage success at the Fremont Weir will be used to assess the effectiveness of the Project. Therefore, criteria for passage are based on migration timing of these four species.

Migration timing criteria established in the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Implementation Plan and revised by FETT provide distinct timing criteria for each species at the Fremont Weir (Table 1; DWR and Reclamation 2012, FETT 2015, DWR 2017). Literature review of existing data indicates that winter-run Chinook Salmon spawning migration occurs between mid-November and May, whereas spring-run migrate between January and mid to late May. In comparison, California Central Valley adult steelhead presence near the Fremont Weir peaks in early October and extends through March, while adult Green Sturgeon migration timing begins in February and ends in early May.

Table 1. Adult fish migration timing in the Sacramento River, near the Fremont Weir, for NMFS (2009) target species.

Target species	Adult migration timing							
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Winter-run Chinook Salmon								
Spring-run Chinook Salmon								
Central Valley steelhead DPS								
Southern DPS Green Sturgeon								

*sourced from DWR and Reclamation (2012), FETT (2015), and DWR (2017)

Based on these windows for migration, the target species could be present in the Sacramento River near Fremont Weir from October to May. However, October and May are excluded from the operational window for the Project. Although steelhead migration peaks in early fall, October is omitted from this timing window because fall conditions at the Fremont Weir generally exhibit low flow that is not conducive to fish migration. While April accounts for the peak of fish migration within the Sacramento River, May is omitted

from the timing window due to similar low flow conditions present in Sacramento River during early fall (Hallock et al. 1957, Hallock and Fisher 1985, Hallock 1989, Heublein et al. 2009, Johnson et al. 2011, DWR and Reclamation 2012).

To accommodate peak migration periods, the operational criteria at the Fremont Weir focus on the time period between November and the end of April. However, the *YBPASS Tool* analyzes adult fish passage potential under the following two different operational windows since the operations of the gated notch will differ from November 1 through April 30:

- November 1 through March 15[1]
  The first operational window occurs when the gated notch will be operated to create floodplain rearing habitat under the maximum design discharge. The end date of March 15 was determined by a series of economic drivers, including the needs of agricultural farmers, which support operations ending on March 15 in order to prevent delays in field preparation and planting.

- March 16 through April 30[1]
  The second operational window occurs when the gated notch will be operated to provide adult fish passage, but with discharge limited to 1,000 cubic feet per second (cfs) in order to avoid major flooding within the Yolo Bypass.

3. Modeling Approach

3.1 Adult Fish Passage Criteria

To evaluate adult fish passage at the Fremont Weir, design criteria developed by FETT for depth, velocity, and width were incorporated into the analysis. As established by the California Department of Fish and Wildlife (CDFW) and NMFS, salmonids require a minimum depth of 1 ft of flow throughout the structure to allow for passage (CDFG 2010, NMFS 2011). Other studies have found that salmonids are capable of passage in depths as low as 0.5 ft; however, multi-species passage requires a structure that allows for species with the most stringent depth requirements (DWR and Reclamation 2012). As larger bodied, benthic swimmers, acipenserids require additional depth to prevent possible delays caused by passage structures. While studies are not available for Green Sturgeon, White Sturgeon *Acipenser transmontanus* of similar size and swimming capabilities were able to pass successfully at depths of 3.3 and 3.0 ft within laboratory swimming flume studies (DWR 2007). Using these findings, FETT (2015) recommends a minimum of 3 ft of depth to facilitate acipenserid passage at fish passage structures and 5 ft of depth in project channels greater than or equal to 60 ft in length (Table 2; NMFS 2011, DWR and Reclamation 2012, DWR 2017). These depths are expected to provide a positive behavioral response for both salmonids and acipenserids, which are more likely to avoid shallow channels.

[1] The first operational window for Alternative 4b occurs between November 1 and March 7 and the second operational window occurs between March 8 and April 30.

Table 2. FETT's design criteria for multi-species adult fish passage structures.

Structure	Project feature length	Depth criterion	Velocity criterion	Width criterion
Gated notch/short channel transitions	< 60 ft	≥ 3 ft	≤ 6 ft/sec	≥ 10 ft
Transport channel	≥ 60 ft	≥ 5 ft	≤ 4 ft/sec	≥ 10 ft

*sourced from DWR (2017)

Velocity criteria also vary among target species, with high velocities acting as barriers to passage once flow exceeds burst speed capabilities of either species. Adult salmonids are able to maintain prolonged swim speeds of 6 ft/sec for up to 30 minutes, with burst speeds as high as 10 ft /sec for 5 seconds (CDFG 2010). By conducting laboratory swimming flume studies, Webber et al. (2007) determined White Sturgeon were able to pass structures at velocities ranging from 2.76 to 8.26 ft/sec. To allow for adult passage under streaming flow conditions, FETT (2015) recommends a maximum velocity criterion of 6 ft/sec at fish passage structures and 4 ft/sec in project channels greater than or equal to 60 ft in length (Table 2; CDFG 2010, DWR 2017). Stable and uniform flow through the structure is necessary to provide efficient passage for larger bodied acipenserids and to prevent injuries caused by salmon jumping.

To provide efficient passage for salmonids and acipenserids, the minimum width of a structure should be considered to prevent potential passage delay or physical injury to the fish. A structure too narrow to pass fish will deter fish from moving upstream and may cause harm to the fish while maneuvering. NMFS (2011) guidelines for salmonid passage specify that fishway entrance widths should be a minimum of 4 ft wide and that pools should be a minimum of 6 ft wide. For larger bodied acipenserids, DWR and Reclamation (2012) suggest using a body length approach, whereby the fishway is designed wide enough to allow for acipenserids to make a complete directional change. Therefore, it is recommended that a minimum width 10 ft be used when designing fish passage structures and project channels (Table 2; Moyle 2002, DWR and Reclamation 2012, DWR 2017). For this TM, alternatives were modeled using the 10-ft width criterion for both the gated notch and the downstream transport channel.

3.2 Model Considerations

For the purpose of this evaluation, fish passage barriers occur when water depth is too shallow or velocity is too high. However, additional considerations are involved with modeling discharge through the gated notch at the Fremont Weir and downstream transport channel.

As stage increases upstream of a structure, the drop in water surfaces creates a velocity barrier, allowing for more rapid flows through the passage structure. Under current conditions, the Sacramento River flows overtop the crest of the Fremont Weir

once stage reaches 32 ft North American Vertical Datum 1988 (NAVD88) (West End)[2]. Prolonged overtopping events lead to a backwater effect that reduces velocities through the weir, providing continued fish passage. Therefore, stage associated with high velocities results in barrier to passage until there is sufficient depth (depth criterion of 3 ft for channels less than 60 ft) over the crest of the weir. Therefore, under any modeled scenario, adult fish passage criteria are met once stage is greater than or equal to 35 ft during overtopping events.

Another modeling consideration is to control the volume of flow entering the Yolo Bypass while still providing a hydraulic connection for adult fish passage and juvenile entrainment. Each alternative is modeled to limit discharge by designed dimensions or gate operations. As flow rates increase, gates close to regulate discharge through the passage structure. As the cross-sectional area of the gates is reduced due to gate closure, velocity through the structure increases, causing a barrier to fish passage. Therefore, modeling determines the stage necessary to comply with discharge constraints for each alternative.

3.3 Modeled Scenarios

Since the formation of FETT, several gated notch configurations have been evaluated using the *YBPASS Tool* to help optimize configurations for adult fish passage. Initially, configurations with varying invert elevations were evaluated to determine changes in water surface elevation through the gated notch. Different bottom widths within the structure were also evaluated, allowing for multiple gate designs and operations. Preliminary 2014 Yolo Bypass Two-dimensional Unsteady Flow Hydrodynamic Modeling (TUFLOW) determined that in addition to the gated notch the downstream transport channel needed to be modeled because the head difference at the gates was controlled by the downstream transport channel. As a result, Hydrologic Engineering Center's River Analysis System (HEC-RAS) modeling was then used to evaluate conditions in the downstream transport channel. To reduce velocities through the gates, the cross-sectional area of the gates were adjusted to more closely match the downstream channel dimension. Benches were later proposed to allow for low velocity passage corridors along both sides of the main channel corridor. Once stage rises and velocity reaches the threshold criteria for passage, flow will inundate the benches providing a low velocity option for fish to navigate. Multiple HEC-RAS modeling iterations were completed to provide operational compliance (i.e., depth and velocity criteria) for various configurations, including configurations with benches shifted to one side of the channel. This design combines the cross-sectional area of the benches, while allowing for a lower elevation bench and a higher elevation bench on the same side. A detailed synopsis of the modeling progression for Project alternatives will be documented in the Engineering Hydraulic Analysis TM.

The *YBPASS Tool* TM documents the frequency that adult fish passage criteria are met for the six alternatives that were selected for further analysis in the EIS/EIR. As

[2] Although the Fremont Weir's crest elevation varies west to east, DWR California Data Exchange Center (CDEC) documents the crest elevation as 32 ft NAVD88 for Station Number A02170 (West End). For modeling purposes and throughout this TM, all elevations are recorded in NAVD88.

summarized in Table 3, these six alternatives differ by location, maximum design flow, notch invert elevation, and the bottom width of the transport channel. In general, the first three alternatives in Table 3 all have the ability to bring up to 6,000 cfs into the Yolo Bypass, but differ in terms of where the gated notch and transport channel are placed at the Fremont Weir. Alternatives 1, 2, and 3 each have one bench on the left side (when facing upstream) that is not stepped to include an upper bench.

In comparison, Alternative 4 has the same gated notch configuration as Alternative 3, but limits flow to 3,000 cfs in the Yolo Bypass (Table 3). Because of this, Alternative 4 will divert the same amount of water until the Sacramento River is high enough to allow 3,000 cfs through the gated notch. Once this occurs, the gates will start to close to maintain 3,000 cfs. This alternative will bring in less flow, but there will be water control structures strategically placed throughout the Yolo Bypass with the goal of creating floodplain habitat for a longer period of time. Additional fish passage structures will be necessary for fish to bypass the water control structures during operation. Alternative 4 is comprised of Alternative 4a and 4b, which function identically under different operational windows between November and April (see footnote 1).

Alternative 5 includes the ability to bring up to 3,400 cfs into the Yolo Bypass (Table 3). This configuration includes 27 gates across three channels with the goal to entrain as many juvenile fish as possible. These gates vary in elevation, which gives Alternative 5 the flexibility to operate gates that are at the top of the water column, thereby targeting the greatest concentration of juvenile fish. This design includes multiples gates and transport channels that are expected to have shorter operational ranges.

Lastly, Alternative 6 includes a larger channel bottom width and will allow up to 12,000 cfs through the gated notch (Table 3). By allowing greater flow through the gated notch and allowing gates to remain open during high flows, the goal of this alternative is to improve conditions for adult fish passage and help entrain more juvenile Chinook Salmon onto the Yolo Bypass compared to alternatives with lower maximum design discharge.

3.4 Model Components

The *YBPASS Tool* relies on HEC-RAS modeled velocity and depth to inform the dimensions of the proposed alternatives (Table 3). Within each alternative, water depth and velocity were measured as a function of the invert elevation at the weir, the bottom width, and the side slopes. HEC-RAS modeling determined corresponding channel configurations necessary to achieve the proposed maximum design discharges. In addition, velocities were determined by modeling upstream and downstream water surface elevations associated with the proposed alternatives.

To analyze each alternative with the *YBPASS Tool*, TUFLOW modeling determined the modeled Sacramento River stage data at each alternative location (i.e., western, central, and eastern) for WYs 1997–2012. This method was selected because Sacramento River stage data at the Fremont Weir (West End) (CDEC Station Number A02170) only measures stage data for the west end, which is not representative for stage data in the central and eastern locations. Full details on the HEC-RAS and TUFLOW methodology will be documented in the Engineering Hydraulic Analysis TM.

Table 3. Dimensions of the proposed alternatives for fish passage improvements at the Fremont Weir.

Alternative		Maximum design discharge (cfs)	Gated notch description		Transport channel description		
			Dimensions	Invert elevations	Bottom width (ft)	Bench bottom width (ft)	Side slope
1.	Eastern Alignment	6,000	Gate 1: 18 x 34 ft; Gates 2 & 3: 14 x 27 ft	Gate 1: 14-ft; Gates 2 & 3: 18-ft	30	30	3:1
2.	Central Alignment	6,000	Gate 1: 17 x 40 ft; Gates 2 & 3: 13 x 27 ft	Gate 1: 14.8-ft; Gates 2 & 3: 18.8-ft	50	30	3:1
3.	Western Alignment	6,000	Gate 1: 16 x 40 ft; Gates 2 & 3: 12 x 27 ft	Gate 1: 16.1-ft; Gates 2 & 3: 20.1-ft	60	30	3:1
4.[3]	Western Alignment	3,000	Gate 1: 16 x 40 ft; Gates 2 & 3: 12 x 27 ft	Gate 1: 16.1-ft; Gates 2 & 3: 20.1-ft	60	30	3:1
5.	Central Alignment	3,400	27 Gates; Intakes A, B & C: 10 ft x 10 ft; Intake D: 10 ft x 7 ft	Intake A: 14-ft; Intake B: 17-ft; Intake C: 20-ft; Intake D: 23-ft	Intakes A & B: 80; Intake C: 130; Intake D: 142	N/A	3:1
6.	Western Alignment	12,000	Gates 1-5: 14 x 40 ft	16.1-ft Invert	200	N/A	3:1

[3] Alternative 4b has the same configuration as Alternative 4a, but with different operational end dates (see footnote 1).

4. *YBPASS Tool*

4.1 Inputs and Approach

HEC-RAS modeling determined the depth and velocity within each proposed gated notch and transport channel at corresponding stages in the Sacramento River. These data were used to evaluate TUFLOW modeled Sacramento River stage data for each proposed alternative. TUFLOW modeled stage data for WYs 1997–2012 were limited to November 1 through April 30, which is consistent with key periods of adult salmonid and acipenserid presence within the Yolo Bypass. Leap year data (February 29) were removed to allow for uniformity among years. Proposed alternatives were analyzed for compliance with adult fish passage criteria under the following operational windows:

- November 1 through March 15[4]
  Target inundation period under maximum design discharge

- March 16 through April 30[4]
  Target adult fish passage period with the limitation of 1,000 cfs

HEC-RAS modeling determined the minimum Sacramento River stage required to meet the depth criterion (Table 2; 3 ft for channels less than 60 ft and 5 ft for channels greater than or equal to 60 ft) for each proposed alternative's gated notch and transport channel. For alternatives with benches, HEC-RAS modeling also determined the minimum Sacramento River stage required to achieve the 5-ft depth criterion for the left and/or right benches. The minimum Sacramento River stage that still meets depth criterion provides the lower stage threshold for achieving fish passage criteria.

HEC-RAS modeling also determined the maximum Sacramento River stage that does not exceed the velocity criterion (Table 2; 4 ft/sec for channels greater than 60 ft and 6 ft/sec for channels less than or equal to 60 ft) for each of the proposed alternative's gated notch and transport channel. For alternatives with benches, HEC-RAS modeling also determined maximum Sacramento River stage to achieve the 6-ft/sec velocity criterion for the left and/or right benches. The maximum Sacramento River stage that does not exceed the velocity criterion provides the upper stage threshold for meeting fish passage criteria. However, velocity and depth criteria were assumed to be met during an overtopping event in which TUFLOW modeled Sacramento River stage exceeded 35 ft at the Fremont Weir.

In addition to depth and velocity criteria, HEC-RAS modeling determined the Sacramento River stage associated with the maximum designed discharge for each proposed alternative. When TUFLOW modeled Sacramento River stage exceeded this stage, the velocity criterion is assumed to be exceeded due to the requirement of gate closure that will cause increased velocities through the gated notch. The Sacramento

[4] The first operational window for Alternative 4b occurs between November 1 and March 7 and the second operational window occurs between March 8 and April 30.

River stage that corresponds to the maximum design discharge provides a potential upper stage threshold at which point the velocity criterion is exceeded. In order for this stage to be the upper threshold for meeting fish passage criteria, the stage associated with achieving the velocity criterion must be higher.

4.2 Operational Ranges

Table 3 lists the HEC-RAS modeled alternatives currently being evaluated with the *YBPASS Tool*. To determine the operational range for each alternative, TUFLOW modeled stage must meet the minimum depth criterion and not exceed the maximum velocity criterion established for adult fish passage. The minimum Sacramento River stage for depth represents the lower stage threshold for passage and the maximum Sacramento River stage for velocity represents the upper stage threshold for passage. If the lower stage threshold for depth is greater than the upper stage threshold for velocity, the depth criterion for passage is not met before the velocity criterion is exceeded. This lack of overlap results in an inoperable range for adult fish passage. In addition, if the upper stage threshold for velocity is greater than the maximum Sacramento River stage for discharge, the discharge criterion supersedes the velocity criterion. Therefore, stages associated with the threshold of depth, velocity, and discharge criteria correspond to an operational fish passage range for each alternative.

However, operational ranges exist for each location within the modeled alternative, including the gated notch, transport channel, and benches (if benches were proposed). In order to consolidate the ranges into one operational range for the entire alternative, ranges must overlap. In other words, if discharge that exits the gated notch (less stringent adult fish passage criteria) exceeds the passage criteria for the transport channel (more stringent adult fish passage criteria), adult fish passage criteria are not met. If benches are proposed, operational ranges have to be within the operational range of the gated notch in order to meet criteria for passage. By overlapping the operational ranges, the alternative will have one operational range for the gated notch and transport channel. If benches are proposed, an additional operational range for benches can exist if it falls within the operational range of the gated notch. An iterative design process eliminated gaps between the operational ranges for the transport channel and bench(es).

Alternatives 1–4b were modeled using HEC-RAS to determine the operational range for adult fish passage through the gated notch, transport channel, and bench (Table 4; Figure 1). For Alternatives 5 and 6, HEC-RAS modeling determined the operational ranges for the gated notch and transport channel (Table 4; Figure 1). The operational ranges (November 1 through March 15) for Alternatives 1, 2, and 6 do not include the maximum Sacramento River stage for the maximum design discharge. This is because the maximum Sacramento River stage for discharge exceeded the upper stage threshold for the velocity criterion. Alternative 6 does not have an operational range after March 15 due to a velocity barrier once stage reaches the lower stage threshold for fish passage. In other words, when Alternative 6 TUFLOW modeled stage is less than 21.12 ft, the depth criterion is not met and when TUFLOW modeled stage is greater than or equal to 21.12 ft, the velocity criterion is exceeded.

4.2.1 Operational Range for Alternatives 4a and 4b (Western Alignment)

Existing HEC-RAS modeling for Alternatives 4a and 4b (Western Alignment) do not evaluate the proposed downstream water control structures for adult fish passage success. Instead, the operational ranges presented in Table 4 and Figure 1 only accounts for the gated notch and transport channel near Fremont Weir. Once designs are further analyzed, the operational range for Alternatives 4a and 4b will be revised.

Table 4. Operational ranges of the proposed alternatives modeled from HEC-RAS for adult fish passage improvements at the Fremont Weir Station Number A02170 (West End).

Alternative		Maximum design discharge (cfs)	1,000 cfs Discharge criterion exceeded at stages (ft) greater than:	Design discharge criterion exceeded at stages (ft) greater than:	Operational range (ft)	
					November 1–March 15	March 16–April 30
1.	Eastern Alignment	6,000	23.35	29.94	21.14–29.92	21.14–23.35
2.	Central Alignment	6,000	23.06	30.65	21.20–30.57	21.20–23.06
3.	Western Alignment	6,000	22.58	30.87	21.25–30.87	21.25–22.58
4.[5]	Western Alignment	3,000	22.58	26.73	21.25–26.73	21.25–22.58
5.	Central Alignment	3,400	23.86	30.80	21.71–30.80	21.71–23.86
6.	Western Alignment	12,000	20.63	29.84	21.12–28.30	N/A

[5] The first operational window for Alternative 4b occurs between November 1 and March 7 and the second operational window occurs between March 8 and April 30.

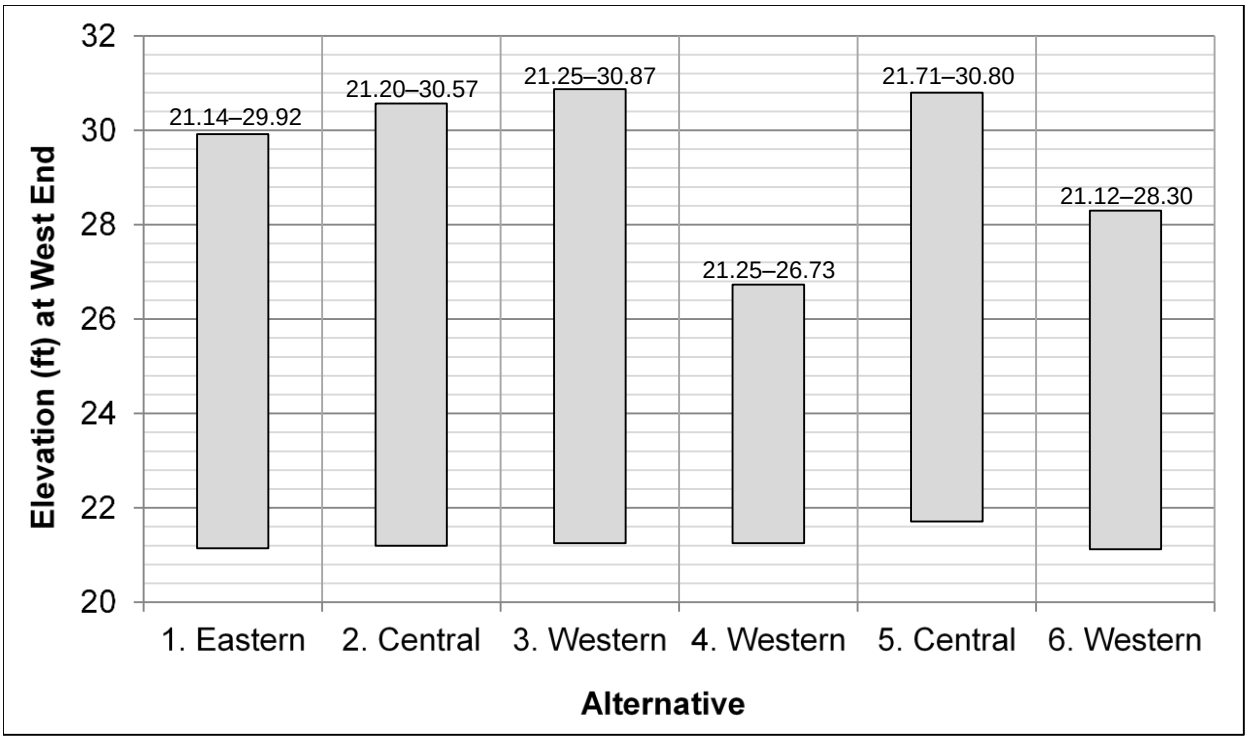


Figure 1. Proposed operational ranges (November 1 to March 15) of the proposed alternatives modeled from HEC-RAS for adult fish passage improvements at the Fremont Weir Station Number A02170 (West End).

4.3 Passage Analysis

For each proposed alternative, both the depth and velocity criteria for adult fish passage were evaluated to determine their individual and combined impact on passage. Compliance with depth and velocity criteria was determined through a series of if-then statements generated from the upper and lower stage thresholds of the operational range (Figure 2).

For each alternative, data were summarized for each WY to include the number of days of insufficient depth, the number of days of excessive velocity, the number of days and percent of season the alternative met criteria, and the last date the alternative met criteria. In addition, the number of days and percent of the month the alternative met criteria were summarized for each WY during the months of February through April, accounting for peak presence of Green Sturgeon in the Yolo Bypass near Fremont Weir. Each summary statistic was averaged across WYs and includes standard deviation.

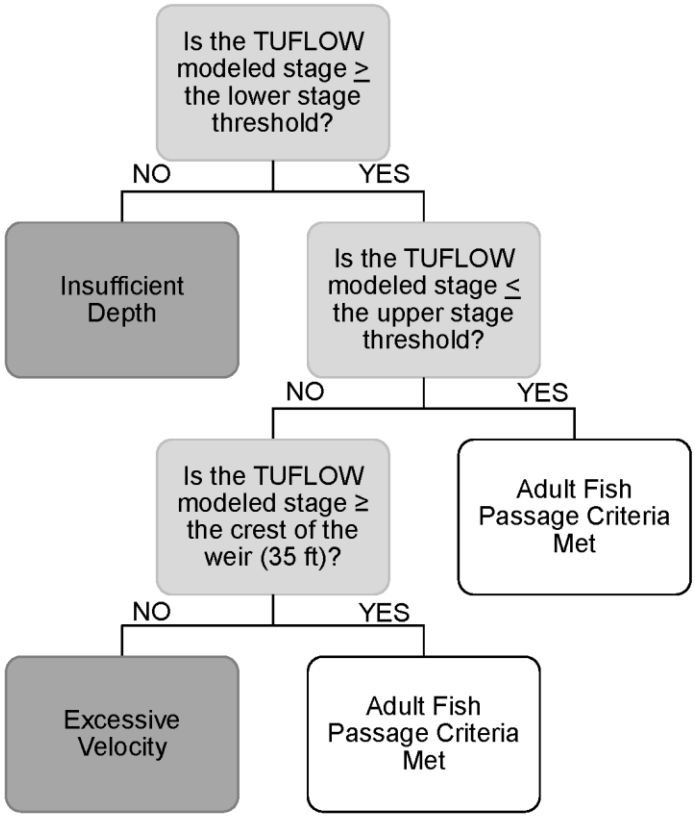


Figure 2. Schematic diagram depicting *YBPASS Tool's* series of if-then statements used to determine compliance with adult fish passage criteria for the proposed alternatives.

5. Model Assumptions and Limitations

Modeling results are subject to the quality of the data used in making assumptions. Often the reliability of the data depends on the best available science to date with relationships taken from laboratory settings and surrogate species. Because Green Sturgeon abundance is relatively low, criteria established for adult White Sturgeon were used in this analysis as a surrogate for adult Green Sturgeon criteria. Although swimming behavior varies between larval/juvenile White and Green sturgeon (Polette et al. 2014, Verhilles et al. 2014), past studies have hypothesized that adult White Sturgeon make appropriate surrogates due to similarities in swimming performance, morphology, and size (DWR 2007). Modeling assumptions made for Green Sturgeon were generated from wild caught White Sturgeon in a laboratory setting (e.g., DWR 2007). Therefore, it is important to note that depth and velocity criteria for acipenserids are not established standards in a natural environment.

The *YBPASS Tool* quantifies compliance with adult fish passage criteria, but does not quantify successful fish passage efficiency. The adult fish passage criteria used for this analysis are purposefully conservative and were generated to account for suitable fish passage conditions for weaker swimming fish belonging to the target species. This conservative approach reduces artificial selection for more adept

swimmers. When conditions do not comply with adult fish passage criteria, many fish may still be able to successfully pass through the proposed fish passage structures.

The *YBPASS Tool* only evaluates the effects of depth and velocity on adult fish passage without considering suitable water quality requirements (e.g., water temperature and oxygen). Variations in water quality (including land use impacts) and discharge across seasons are important factors affecting fish migration and resident fish assemblages (Sommer et al. 2013). When water temperatures exceed the known temperature criterion for migratory species (<18.3°C for adult and juvenile salmonids; <24°C for adult Green Sturgeon), fish injury and mortality are possible (Erickson et al. 2002, Moyle et al. 2008, DWR 2013). Although environmental changes are known triggers for changes in fish behavior, environmental changes are not currently evaluated with the *YBPASS Too*l. Environmental conditions are not necessarily evaluation factors. If poor water quality conditions exist at the planned facility, similar conditions would likely exist downstream precluding adult fish from accessing the facility.

Another assumption to consider is the validity of the TUFLOW modeled stage data for each alternative as well as the HEC-RAS modeled operational ranges. In determining fish passage performance, future stream conditions are assumed to mirror historical trends in the Yolo Bypass. Therefore, the use of reliable historical data, either real-time data or modeled data, in all tools is necessary to provide accurate passage predictions for modeled alternatives. The HEC-RAS modeled operational ranges only account for gate operations and dimensions of the transport channel. They do not account for other components of the alternative (e.g., water control structures for Alternatives 4a and 4b). Assumptions made for TUFLOW and HEC-RAS modeling will be summarized in the Engineering Hydraulic Analysis TM.

6. Results

Through the use of the *YBPASS Tool*, adult fish passage for each proposed alternative was determined with consideration for depth and velocity criteria (Table 5). Using 16 years of TUFLOW modeled stage data, Alternative 5 (Central Alignment) provided for the averaged longest passage window of 43 days (24% of season) with the averaged last day of passage as April 1. An average annual of 106 days during the November through April passage season (181 days analyzed with operational ranges found in Table 4) did not meet the depth criterion, whereas an average annual of 32 days did not meet the velocity criterion.

Alternative 1 (Eastern Alignment), Alternative 2 (Central Alignment), and Alternative 3 (Western Alignment) performed comparably with each alternative providing passage 23% of the season. Alternatives 1 and 2 provided passage through April 2, whereas passage for Alternative 3 ended on April 1. Alternative 4a (Western Alignment), Alternative 4b (Western Alignment), and Alternative 6 (Western Alignment) were the lowest performing adult fish passage structures providing passage for only 18%, 18%, and 19% of the season, respectively. The standard deviation of the average passage window (21% of the season) was only 3% across the six alternatives.

The *YBPASS Tool* also determined the number of passable days during the months of February through April, which accounts for the peak presence of Green Sturgeon in the Yolo Bypass near Fremont Weir (Table 6). Alternative 1 (Eastern

Alignment), Alternative 2 (Central Alignment), Alternative 3 (Western Alignment), and Alternative 5 (Central Alignment) performed similarly with an average of 13 days (46% of the month), 7 days (23% of the month), and 2 days (7% of the month) passable during the months of February, March, and April, respectively. Alternative 4a (Western Alignment), Alternative 4b (Western Alignment), and Alternative 6 (Western Alignment) were the lowest performing alternatives during the months of February, March, and April, with Alternative 6 providing no passable days in April.

7. Discussion

Alternative 5 provided for the averaged longest fish passage window (24% of season) when analyzing expected presence using the *YBPASS Tool*. However, the standard deviation of the average passage window (21% of season) was 3% across all six alternatives, which made it difficult to distinguish differences among alternatives. When analyzing the months of February through April independently, Alternatives 1–3 and 5 perform similarly across each month. Alternatives 4a, 4b, and 6 performed slightly lower due to limited operational ranges (Table 4). Specifically, passage performance for Alternative 6 during March and April was reduced because of a lack of operation after March 15 due to depth and velocity barriers.

The *YBPASS Tool* only evaluates fish passage performance in terms of depth and velocity for the gated notch, transport channel, and benches (if benches were proposed). It does not account for other components of the alternatives, such as the water control structures in the Tule Canal for Alternatives 4a and 4b. These structures will be designed to provide adult fish passage, while maintaining floodplain habitat for juveniles; however, HEC-RAS modeling did not evaluate operations at these water control structures. Therefore, *YBPASS Tool* results only reflect operations at the gated notch and transport channel (without water control structures).

Furthermore, the *YBPASS Tool* does not consider fish behavior, nor does it consider the operational reliability of the structure. Based on *YBPASS Tool* results, Alternatives 1–3 and 5 all perform similarly when accounting for expected fish presence. However, the *YBPASS Tool* does not account for the complexity of design for each alternative that could influence fish behavior and thus fish passage efficiency. For instance, Alternatives 1–3 have three gates and one transport channel, whereas Alternative 5 has 27 gates and four transport channels. Because of this complexity, Alternative 5 has a greater possibility to confuse migratory fish. The *YBPASS Tool* only analyzed expected presence for unidirectional movement of adult salmonids and acipenserids through the Yolo Bypass. It does not evaluate the possibility of gate closure and rerouting of fish, nor does it evaluate the potential increase in stranding with the addition of multiple channels. In addition to fish behavior, the operational reliability of the proposed structures could also impact adult fish passage efficiency. For example, the gates could malfunction, or the transport channel could get clogged up with debris, which would reduce fish passage efficiency.

Improved adult fish passage is just one consideration when evaluating alternatives. Other factors should be considered, such as water supply needs and the ability to entrain juvenile Chinook Salmon onto the Yolo Bypass. Therefore, the continued use of the *YBPASS Tool*, along with other tools developed for the Project, will be helpful with evaluating alternatives within the Yolo Bypass at the Fremont Weir.

Table 5. *YPBASS Tool* summary results with standard deviation for WYs 1997–2012 assessing adult fish passage for expected presence during November through April for proposed alternatives at the Fremont Weir. Averages and standard deviations were rounded up to the nearest whole number.

Alternative		Average number of days depth barrier exists	Average number of days velocity barrier exists	Average number of days alternative meets criteria	Average percent of season alternative meets criteria	Average last date alternative meets criteria
1.	Eastern Alignment	107 ± 41	32 ± 31	42 ± 15	23%	Apr. 2
2.	Central Alignment	108 ± 41	31 ± 30	42 ± 15	23%	Apr. 2
3.	Western Alignment	109 ± 41	30 ± 29	42 ± 17	23%	Apr. 1
4a.	Western Alignment	109 ± 41	39 ± 32	33 ± 12	18%	Mar. 31
4b.	Western Alignment	109 ± 41	40 ± 32	32 ± 12	18%	Mar. 31
5.	Central Alignment	106 ± 41	32 ± 31	43 ± 16	24%	Apr. 1
6.	Western Alignment	111 ± 41	36 ± 34	34 ± 14	19%	Mar. 3

Table 6. *YPBASS Tool* summary results with standard deviation for WYs 2000–2012 assessing adult Green Sturgeon passage for expected presence during February through April for proposed alternatives at the Fremont Weir. Averages and standard deviations were rounded up to the nearest whole number.

Alternative		February		March		April	
		Average number of days alternative meets criteria	Average percent of month alternative meets criteria	Average number of days alternative meets criteria	Average percent of month alternative meets criteria	Average number of days alternative meets criteria	Average percent of month alternative meets criteria
1.	Eastern Alignment	13 ± 7	46%	7 ± 5	23%	2 ± 5	7%
2.	Central Alignment	13 ± 7	46%	7 ± 6	23%	2 ± 4	7%
3.	Western Alignment	13 ± 7	46%	7 ± 6	23%	2 ± 3	7%
4a.	Western Alignment	11 ± 6	39%	6 ± 6	19%	2 ± 3	7%
4b.	Western Alignment	11 ± 6	39%	5 ± 4	16%	2 ± 3	7%
5.	Central Alignment	13 ± 7	46%	7 ± 6	23%	2 ± 5	7%
6.	Western Alignment	12 ± 6	43%	5 ± 4	16%	0 ± 0	0%

8. References

[CDFG] California Department of Fish and Game. 2010. California salmonid stream habitat restoration manual, 4th Edition, Volume 2, Part IX–Fish passage evaluation at stream crossings. Prepared by Ross Taylor and Associates and Michael Love and Associates.

Deslauriers D., and J.D. Kieffer. 2011. The influence of flume length and group size on swimming performance in Shortnose Sturgeon *Acipenser brevirostrum*. Journal of Fish Biology 79:1146–1155.

[DWR] California Department of Water Resources, Bay-Delta Office, Fisheries Improvement Section. 2007. Through-Delta facility White Sturgeon passage ladder study. Sacramento, California.

[DWR and Reclamation] California Department of Water Resources and United States Bureau of Reclamation. 2012. Yolo Bypass salmonid habitat restoration and fish passage implementation plan. Long-term operation of the Central Valley Project and State Water Project Biological Opinion Reasonable and Prudent Alternative Actions I.6.1 and I.7. Sacramento, California.

[DWR] California Department of Water Resources. 2013. Bay Delta conservation plan. Appendix 5.A.2 Climate change approach and implications for aquatic species. Public draft. November. Sacramento, California. Prepared by ICF International [ICF 00343.12]. Sacramento, California.

[DWR] California Department of Water Resources. 2017. Adult fish passage criteria for federally listed species within the Yolo Bypass and Sacramento River. Technical memorandum for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project. Sacramento, California.

Erickson, D.L., J.A. North, J.E. Hightower, J. Weber, and L. Lauck. 2002. Movement and habitat use of Green Sturgeon *Acipenser medirostris* in the Rogue River, Oregon, USA. Journal of Applied Ichthyology 18:565–569.

Hallock, R.J. 1989. Upper Sacramento River steelhead, *Oncorhynchus mykiss*, 1952–1988. Prepared for the United States Fish and Wildlife Service. September 15, 1989.

Hallock, R. J., D.H. Fry Jr, and D. Q. LaFaunce. 1957. The use of wire fyke traps to estimate the runs of adult salmon and steelhead in the Sacramento River. California Fish and Game Quarterly 43(4):271–298.

Hallock, R.J., and F.W. Fisher. 1985. Status of winter-run Chinook Salmon, *Onchorhynchus tshawytscha*, in the Sacramento River. Prepared for the California Department of Fish and Game. January 25, 1985.

Harrell, W.C. and T.R. Sommer. 2003. Patterns of adult fish use on California's Yolo Bypass floodplain. Pages 88–93 *in* P.M. Faber, editor. California riparian systems: processes and floodplain management, ecology, and restoration. Riparian habitat Joint Venture, Sacramento, California.

Heublein, J.C., J.T. Kelly, C.E. Crocker, A.P. Klimley, and S.T. Lindley. 2009. Migration of Green Sturgeon, *Acipenser medirostris*, in the Sacramento River. Environmental Biology of Fishes 84:245–258.

Johnson, P.M., D. Johnson, D. Killam, and B. Olson. 2011. Estimating Chinook Salmon escapement in Mill Creek using acoustic technologies in 2010. Prepared for the U.S. Fish and Wildlife Service, Anadromous Fish Restoration Program. May 2011.

Moyle, P.B. 2002. Inland fishes of California, revised and expanded. University of California Press, Berkeley, CA. p. 504.

Moyle, P.B., J.A. Israel, and S.E. Purdy. 2008. Salmon, steelhead, and trout in California: status of an emblematic fauna. Prepared for California Trout. University of California, Davis Center for Watershed Sciences.

[NMFS] National Marine Fisheries Service. 2009. Biological Opinion and Conference Opinion on the long-term operations of the Central Valley Project and State Water Project. File Number 2008/09022. National Marine Fisheries Service. Southwest Region. Long Beach, California. June 4.

[NMFS] National Marine Fisheries Service. 2011. Anadromous salmonid passage facility design. National Marine Fisheries Service. Northwest Region. Portland, Oregon. July 2011.

Poletto, J.B, D.E. Cocherell, N. Ho, J.J. Cech Jr, A.P. Klimley, and N.A. Fangue. 2014. Juvenile Green Sturgeon (*Acipenser medirostris*) and White Sturgeon (*Acipenser transmontanus*) behavior near water-diversion fish screens: experiments in a laboratory flume. Canadian Journal of Fisheries and Aquatic Sciences 71:1030–1038.

Sommer, T.R., W.C. Harrell, and F. Feyrer. 2013. Large-bodied fish migration and residency in a flood basin of the Sacramento River, California, USA. Ecology of Freshwater Fish 23:414–423.

Verhille C.E., J.B. Poletto, D.E. Cocherell, B. DeCourten, S. Baird, J.J Cech Jr, and N.A. Fangue. 2014. Larval Green and White sturgeon swimming performance in relation to water-diversion flows. Conservation Physiology 2: doi:10.1093/conphys/cou31.

Webber, J.D., S.N. Chun, T.R. MacColl, L.T. Mirise, A. Kawabata, E.K. Anderson, T.S. Cheong, L. Kavvas, M.M. Rotondo, K.L. Hochgraf, et al. 2007. Upstream swimming performance of adult White Sturgeon: effects of partial baffles and a ramp. Transactions of the American Fisheries Society 136:402–408.

[FETT] Yolo Bypass Fisheries and Engineering Technical Team. 2015. Yolo Bypass FETT draft passage criteria Version 5.

Appendix G6

CalSimII & Reclamation Water Temperature Model Output

This page left blank intentionally.

Long-Term and Water Year-Type Average of Sacramento River Delta Inflow Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482	15,659
Existing - Alternative 1	11,300	15,619	23,806	33,300	40,743	34,914	22,062	13,364	12,597	19,584	13,697	16,482	15,476
Difference	0	-128	-503	-921	-1,041	-480	0	0	0	0	0	0	-183
Percent Difference	0%	-1%	-2%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010	22,938
Existing - Alternative 1	13,018	21,715	41,187	55,063	62,917	51,855	36,791	18,384	13,639	21,152	15,520	26,010	22,647
Difference	0	-353	-1,245	-1,479	-1,196	-575	0	0	0	0	0	0	-291
Percent Difference	0%	-2%	-3%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
Above Normal													
Existing - Base	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988	17,937
Existing - Alternative 1	11,695	14,526	22,766	42,172	49,573	45,519	22,271	14,655	13,069	22,489	16,033	18,988	17,664
Difference	0	-40	-446	-1,602	-1,781	-735	0	0	-1	0	0	0	-273
Percent Difference	0%	0%	-2%	-4%	-3%	-2%	0%	0%	0%	0%	0%	0%	-2%
Below Normal													
Existing - Base	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013	13,248
Existing - Alternative 1	10,841	14,698	16,298	23,109	31,651	28,574	18,090	11,885	12,782	22,590	15,187	12,013	13,106
Difference	0	-49	-186	-690	-933	-552	0	0	0	0	0	0	-143
Percent Difference	0%	0%	-1%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994	10,852
Existing - Alternative 1	10,423	12,547	14,606	17,403	26,909	22,651	11,912	10,212	12,472	17,228	11,469	10,994	10,753
Difference	0	-19	-81	-324	-889	-377	0	-1	0	0	0	0	-99
Percent Difference	0%	0%	-1%	-2%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772	8,039
Existing - Alternative 1	9,148	9,410	11,537	14,722	17,043	14,349	10,330	7,910	9,857	12,298	8,422	7,772	8,002
Difference	0	0	-28	-199	-333	-62	0	0	0	0	0	0	-37
Percent Difference	0%	0%	0%	-1%	-2%	0%	0%	0%	0%	0%	0%	0%	0%

Sacramento River Delta Inflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	22,010	56,115	71,084	75,521	65,784	49,402	23,850	14,772	24,306	16,775	28,029
20%	13,619	18,623	35,016	61,750	67,715	57,900	35,366	14,647	13,790	23,675	16,437	24,442
30%	12,912	17,392	24,392	45,490	58,539	48,511	24,073	12,554	13,215	23,166	15,988	22,307
40%	12,254	15,897	19,607	34,106	50,381	38,401	16,613	11,092	12,891	22,072	15,543	18,189
50%	11,265	14,221	17,083	26,083	35,167	28,964	13,801	10,661	12,353	20,699	15,010	13,962
60%	10,411	12,217	14,976	20,006	27,645	22,764	12,349	10,122	11,925	19,938	14,452	12,771
70%	8,888	10,901	14,365	15,735	23,924	20,351	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,704	13,922	18,176	16,100	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,915	16,074	12,014	9,372	8,228	10,168	12,060	8,272	8,038
Long Term												
Full Simulation Period	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010
Above Normal	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988
Below Normal	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013
Dry	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	21,765	53,886	69,129	75,429	65,386	49,402	23,850	14,772	24,306	16,775	28,030
20%	13,619	18,581	33,416	58,642	66,079	56,971	35,366	14,647	13,791	23,675	16,437	24,445
30%	12,912	17,383	23,861	43,874	56,915	47,786	24,073	12,554	13,215	23,166	15,989	22,307
40%	12,254	15,874	19,411	32,095	48,037	36,502	16,613	11,092	12,892	22,072	15,543	18,189
50%	11,265	14,206	16,831	25,424	32,956	28,595	13,801	10,661	12,352	20,699	15,010	13,962
60%	10,411	12,216	14,934	19,754	26,826	22,567	12,349	10,119	11,925	19,939	14,452	12,771
70%	8,887	10,901	14,331	15,643	23,336	20,271	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,686	13,903	18,047	16,011	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,907	15,981	12,006	9,372	8,228	10,168	12,057	8,273	8,038
Long Term												
Full Simulation Period	11,300	15,619	23,806	33,300	40,743	34,914	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	21,715	41,187	55,063	62,917	51,855	36,791	18,384	13,639	21,152	15,520	26,010
Above Normal	11,695	14,526	22,766	42,172	49,573	45,519	22,271	14,655	13,069	22,489	16,033	18,988
Below Normal	10,841	14,698	16,298	23,109	31,651	28,574	18,090	11,885	12,782	22,590	15,187	12,013
Dry	10,423	12,547	14,606	17,403	26,909	22,651	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,148	9,410	11,537	14,722	17,043	14,349	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-245	-2,228	-1,956	-92	-398	0	0	0	0	0	0
20%	0	-42	-1,600	-3,107	-1,636	-929	0	0	1	0	0	3
30%	0	-9	-531	-1,617	-1,624	-725	0	0	0	0	1	0
40%	0	-23	-196	-2,012	-2,344	-1,899	0	0	1	1	0	0
50%	0	-15	-252	-659	-2,211	-370	0	0	-1	0	0	0
60%	0	-1	-42	-252	-820	-197	0	-3	0	1	0	0
70%	-1	0	-34	-92	-589	-80	0	0	0	0	0	0
80%	0	0	-18	-19	-129	-89	0	0	0	0	0	0
90%	0	0	0	-7	-92	-8	0	0	0	-3	0	0
Long Term												
Full Simulation Period	0	-128	-503	-921	-1,041	-480	0	0	0	0	0	0
Water Year Types												
Wet	0	-353	-1,245	-1,479	-1,196	-575	0	0	0	0	0	0
Above Normal	0	-40	-446	-1,602	-1,781	-735	0	0	-1	0	0	0
Below Normal	0	-49	-186	-690	-933	-552	0	0	0	0	0	0
Dry	0	-19	-81	-324	-889	-377	0	-1	0	0	0	0
Critical	0	0	-28	-199	-333	-62	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Existing - Alternative 1	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Existing - Alternative 1	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Existing - Alternative 1	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Existing - Alternative 1	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Existing - Alternative 1	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Existing - Alternative 1	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,634	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,633	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Existing - Alternative 1	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Existing - Alternative 1	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Existing - Alternative 1	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Existing - Alternative 1	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Existing - Alternative 1	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Existing - Alternative 1	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,081	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,080	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	-1	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Existing - Alternative 1	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Existing - Alternative 1	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Existing - Alternative 1	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Existing - Alternative 1	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Existing - Alternative 1	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Existing - Alternative 1	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Existing - Alternative 1	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Existing - Alternative 1	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Existing - Alternative 1	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272	2,458
Existing - Alternative 1	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272	2,458
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Existing - Alternative 1	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Existing - Alternative 1	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	592	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,035	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,448	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,205	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	593	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,034	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,449	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,204	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	-1	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Fremont Weir Spill to Yolo Bypass Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0	1,933
Existing - Alternative 1	114	391	3,150	9,421	14,271	7,423	1,024	20	0	0	0	0	2,120
Difference	0	133	516	936	1,067	489	0	0	0	0	0	0	187
Percent Difference	0%	52%	20%	11%	8%	7%	0%	0%	0%	0%	0%	0%	10%
							Water Year-Types						
Wet													
Existing - Base	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0	5,472
Existing - Alternative 1	374	1,216	8,962	26,962	37,595	19,098	3,244	64	0	0	0	0	5,772
Difference	0	372	1,284	1,515	1,226	592	0	0	0	0	0	0	299
Percent Difference	0%	44%	17%	6%	3%	3%	0%	0%	0%	0%	0%	0%	5%
Above Normal													
Existing - Base	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0	1,470
Existing - Alternative 1	0	40	2,456	6,179	12,099	8,572	33	0	0	0	0	0	1,749
Difference	0	40	448	1,629	1,829	749	0	0	0	0	0	0	279
Percent Difference	0%	0%	22%	36%	18%	10%	0%	0%	0%	0%	0%	0%	19%
Below Normal													
Existing - Base	0	0	0	291	2,453	501	143	0	0	0	0	0	196
Existing - Alternative 1	0	49	186	983	3,420	1,060	143	0	0	0	0	0	341
Difference	0	49	186	693	967	559	0	0	0	0	0	0	145
Percent Difference	0%	0%	0%	238%	39%	112%	0%	0%	0%	0%	0%	0%	74%
Dry													
Existing - Base	0	0	0	0	537	224	0	0	0	0	0	0	44
Existing - Alternative 1	0	19	81	324	1,441	603	0	0	0	0	0	0	144
Difference	0	19	81	324	904	379	0	0	0	0	0	0	100
Percent Difference	0%	0%	0%	128364%	168%	169%	0%	0%	0%	0%	0%	0%	229%
Critical													
Existing - Base	0	0	0	0	1	0	0	0	0	0	0	0	0
Existing - Alternative 1	0	0	28	199	333	62	0	0	0	0	0	0	37
Difference	0	0	28	199	333	62	0	0	0	0	0	0	37
Percent Difference	0%	0%	0%	0%	42911%	0%	0%	0%	0%	0%	0%	0%	82208%

Fremont Weir Spill to Yolo Bypass

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	7,950	28,958	47,428	19,929	23	0	0	0	0	0
20%	0	0	17	7,664	20,668	5,676	0	0	0	0	0	0
30%	0	0	0	2,091	7,247	1,385	0	0	0	0	0	0
40%	0	0	0	0	1,768	0	0	0	0	0	0	0
50%	0	0	0	0	23	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0
Water Year Types												
Wet	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0
Above Normal	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0
Below Normal	0	0	0	291	2,453	501	143	0	0	0	0	0
Dry	0	0	0	0	537	224	0	0	0	0	0	0
Critical	0	0	0	0	1	0	0	0	0	0	0	0

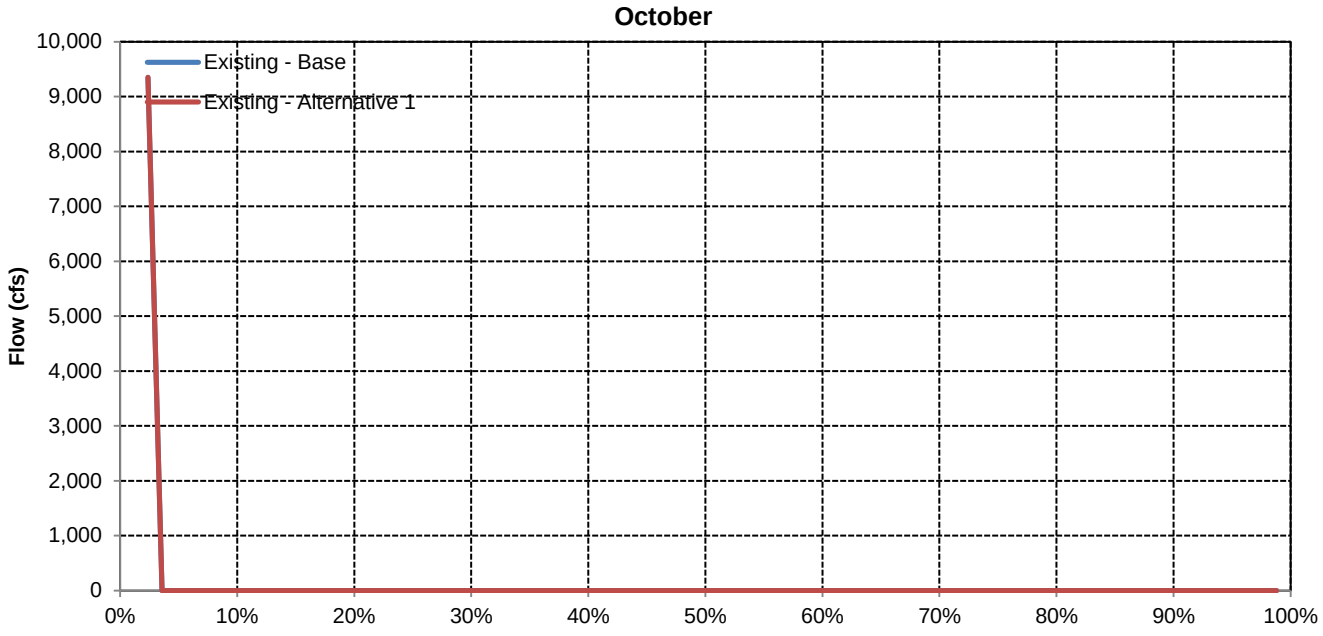
Existing - Alternative 1

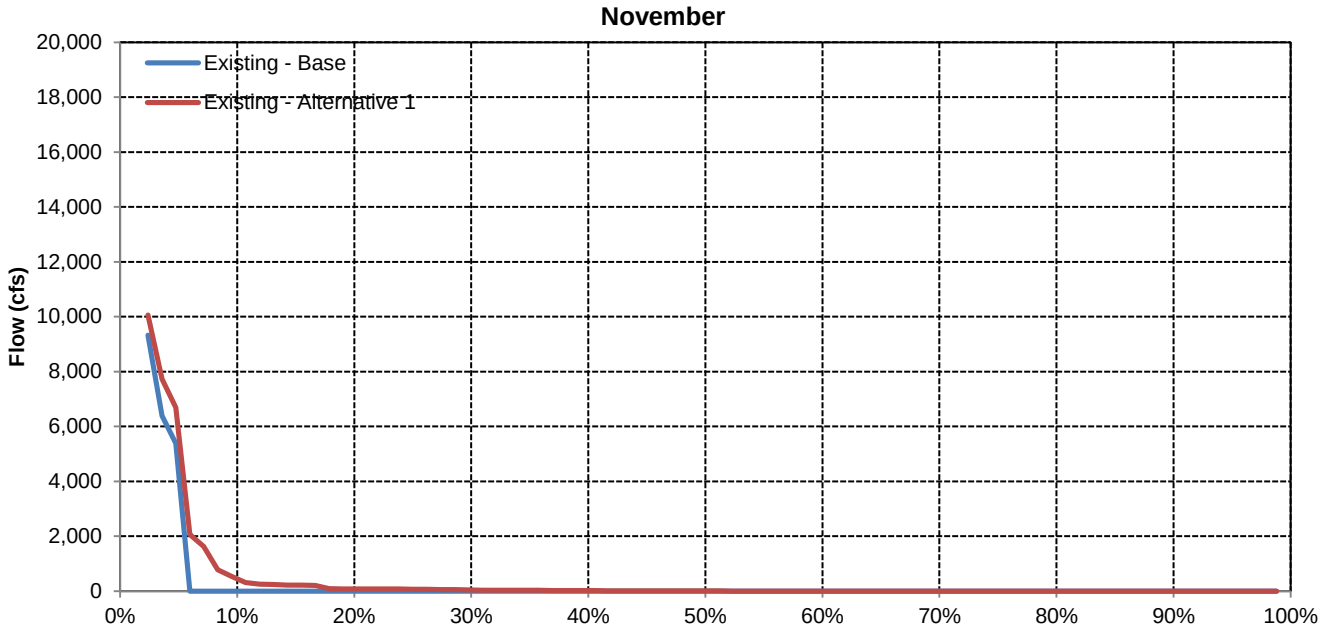
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	297	10,136	30,143	48,857	20,046	23	0	0	0	0	0
20%	0	80	2,082	10,588	22,009	6,577	0	0	0	0	0	0
30%	0	35	618	4,995	9,779	3,176	0	0	0	0	0	0
40%	0	17	248	1,955	4,026	1,632	0	0	0	0	0	0
50%	0	4	138	808	2,733	385	0	0	0	0	0	0
60%	0	0	31	271	1,050	193	0	0	0	0	0	0
70%	0	0	8	84	395	93	0	0	0	0	0	0
80%	0	0	0	27	129	29	0	0	0	0	0	0
90%	0	0	0	7	37	1	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	391	3,150	9,421	14,271	7,423	1,024	20	0	0	0	0
Water Year Types												
Wet	374	1,216	8,962	26,962	37,595	19,098	3,244	64	0	0	0	0
Above Normal	0	40	2,456	6,179	12,099	8,572	33	0	0	0	0	0
Below Normal	0	49	186	983	3,420	1,060	143	0	0	0	0	0
Dry	0	19	81	324	1,441	603	0	0	0	0	0	0
Critical	0	0	28	199	333	62	0	0	0	0	0	0

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	297	2,186	1,185	1,429	117	0	0	0	0	0	0
20%	0	80	2,065	2,923	1,341	902	0	0	0	0	0	0
30%	0	35	618	2,904	2,532	1,791	0	0	0	0	0	0
40%	0	17	248	1,955	2,257	1,632	0	0	0	0	0	0
50%	0	4	138	808	2,710	385	0	0	0	0	0	0
60%	0	0	31	271	1,050	193	0	0	0	0	0	0
70%	0	0	8	84	395	93	0	0	0	0	0	0
80%	0	0	0	27	129	29	0	0	0	0	0	0
90%	0	0	0	7	37	1	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	133	516	936	1,067	489	0	0	0	0	0	0
Water Year Types												
Wet	0	372	1,284	1,515	1,226	592	0	0	0	0	0	0
Above Normal	0	40	448	1,629	1,829	749	0	0	0	0	0	0
Below Normal	0	49	186	693	967	559	0	0	0	0	0	0
Dry	0	19	81	324	904	379	0	0	0	0	0	0
Critical	0	0	28	199	333	62	0	0	0	0	0	0

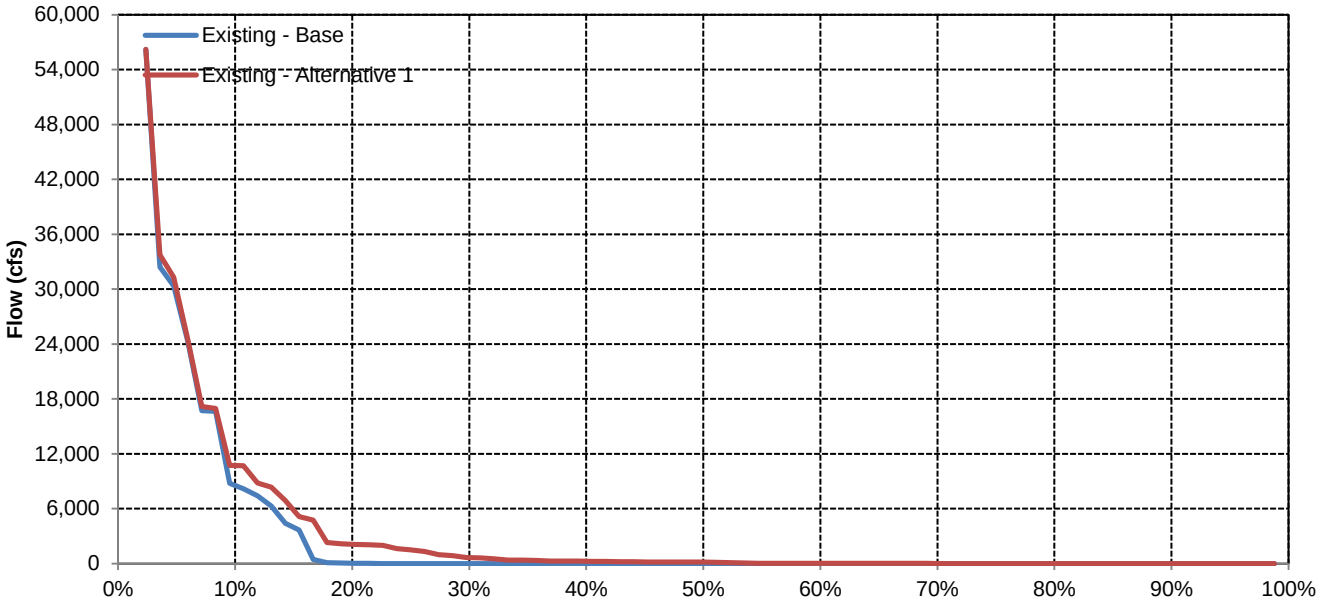
Fremont Weir Spill to Yolo Bypass



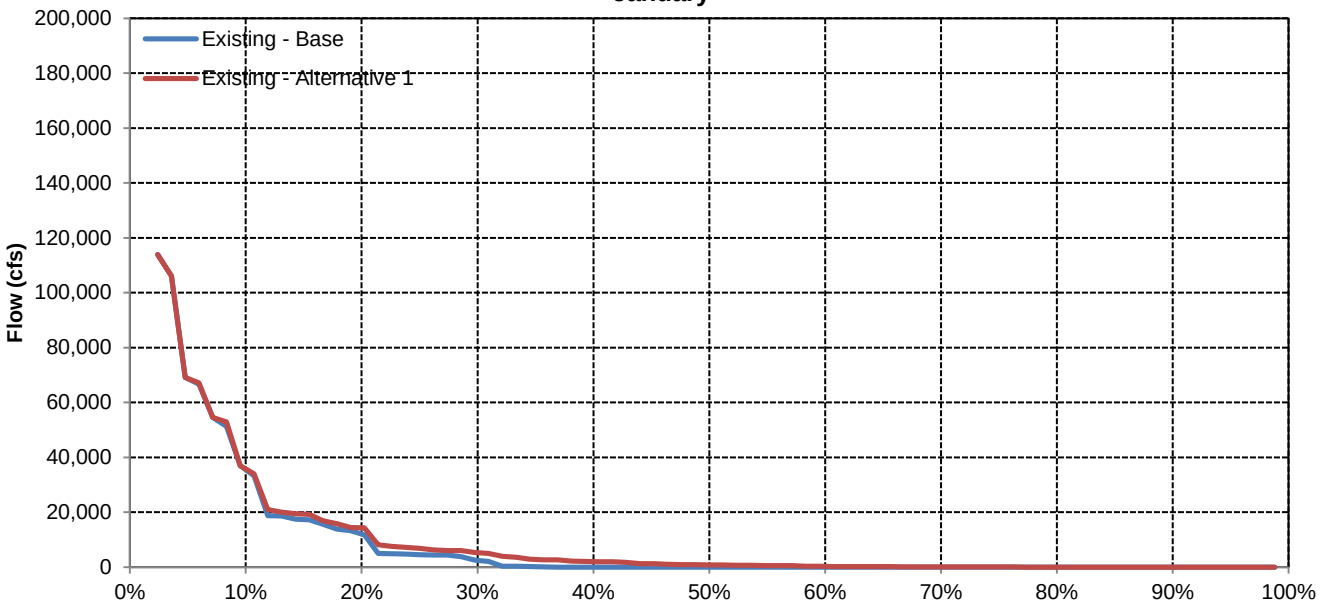


Fremont Weir Spill to Yolo Bypass

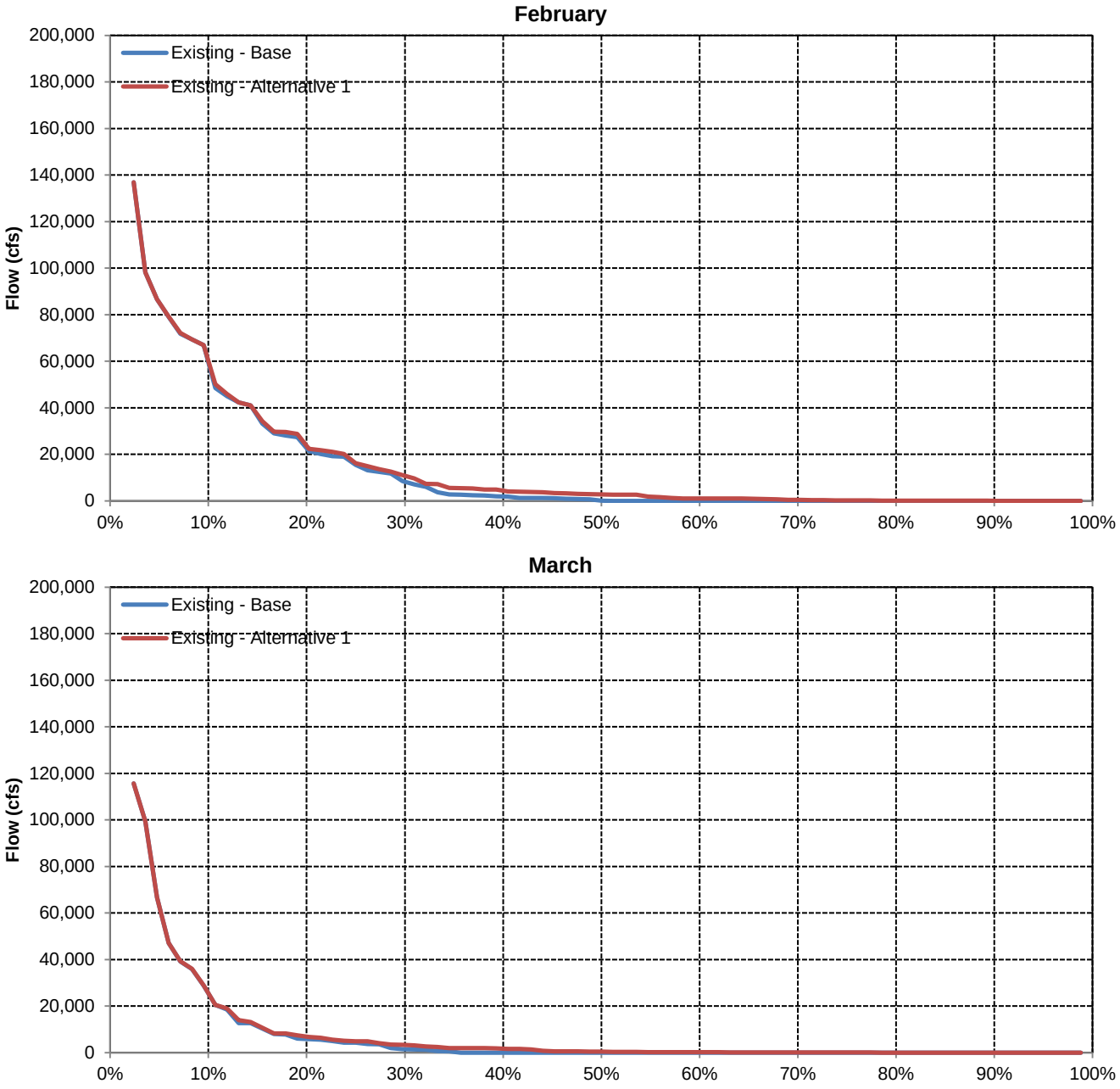
December



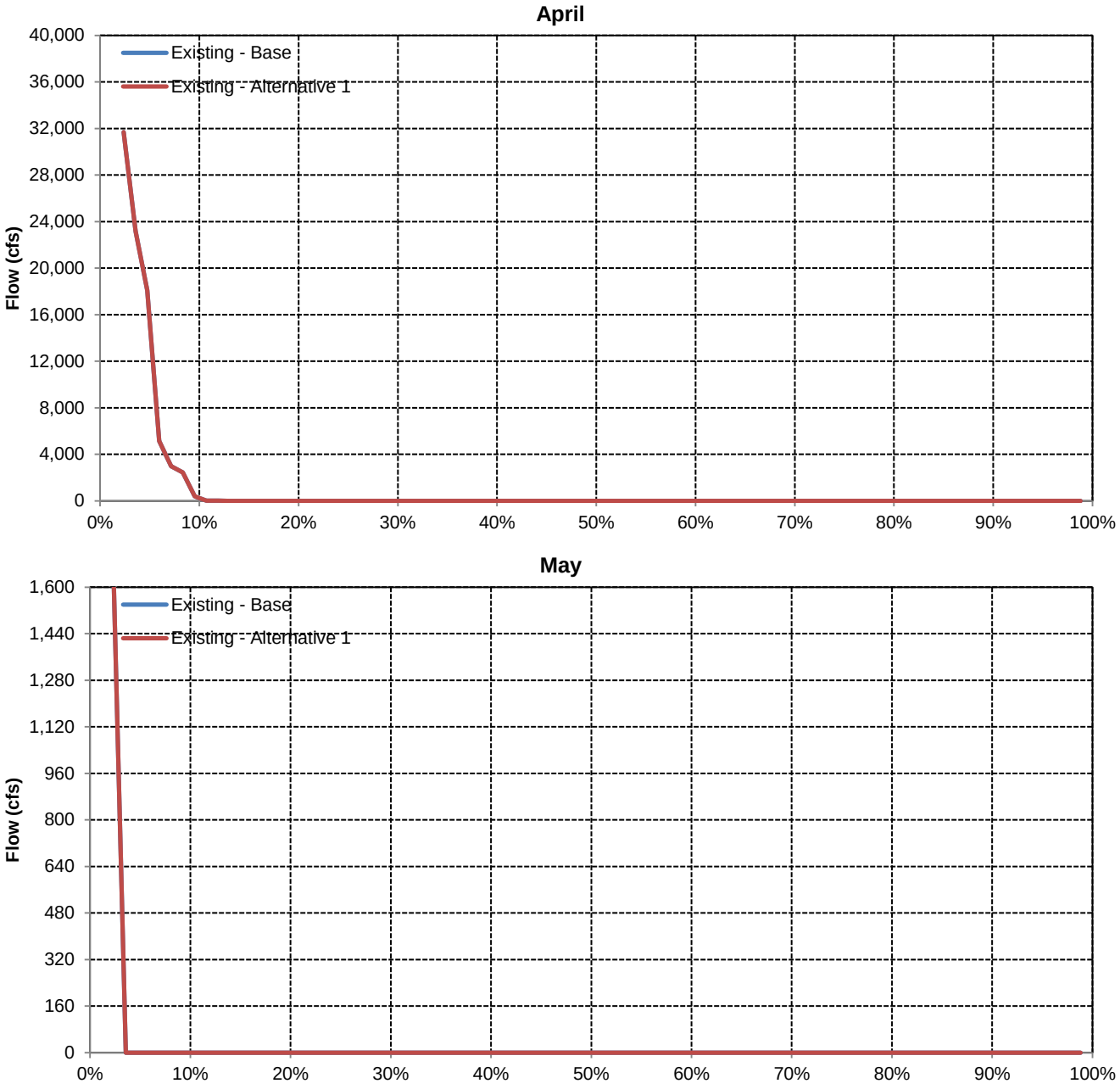
January



Fremont Weir Spill to Yolo Bypass

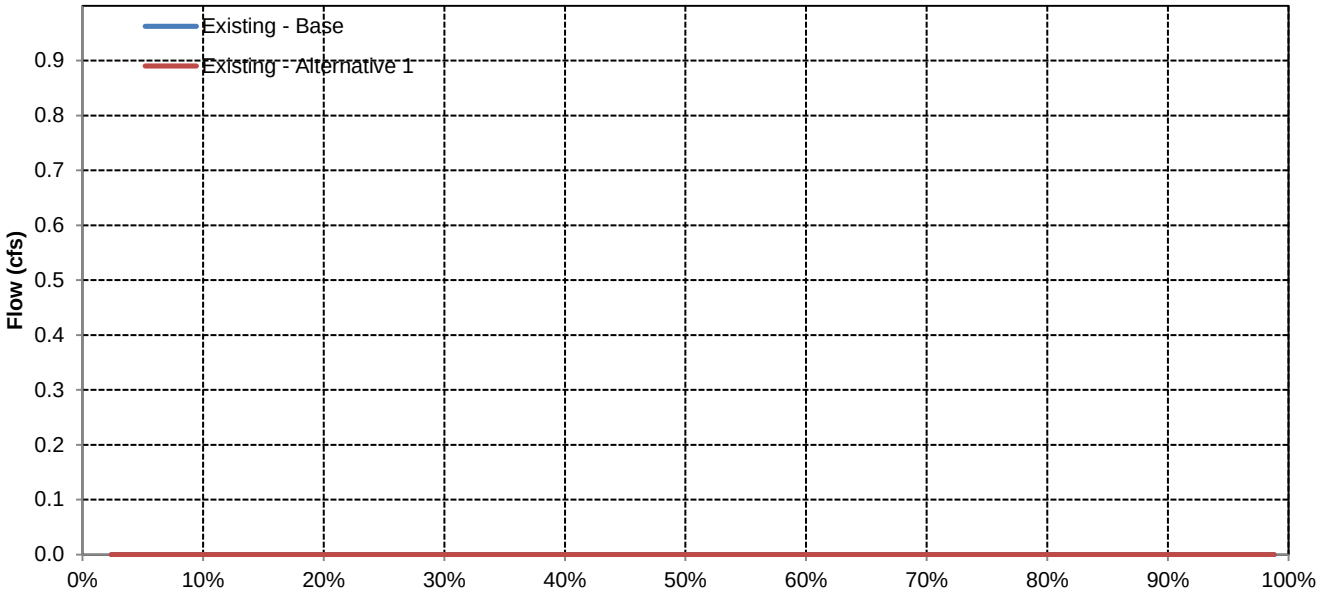


Fremont Weir Spill to Yolo Bypass

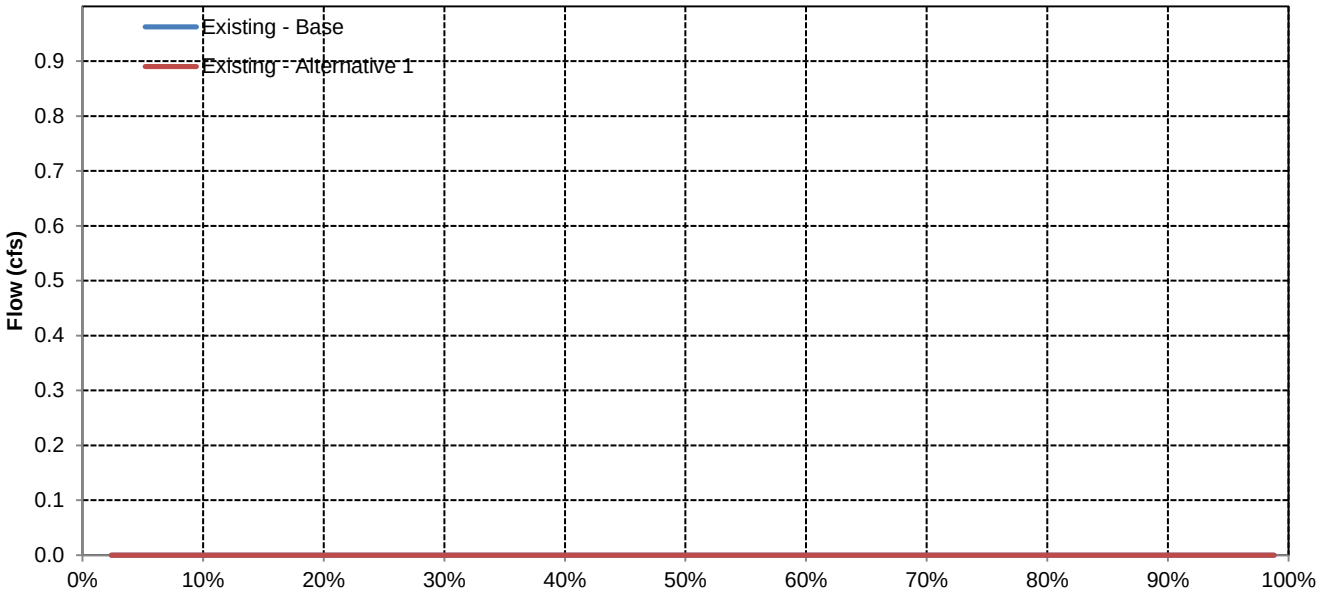


Fremont Weir Spill to Yolo Bypass

June

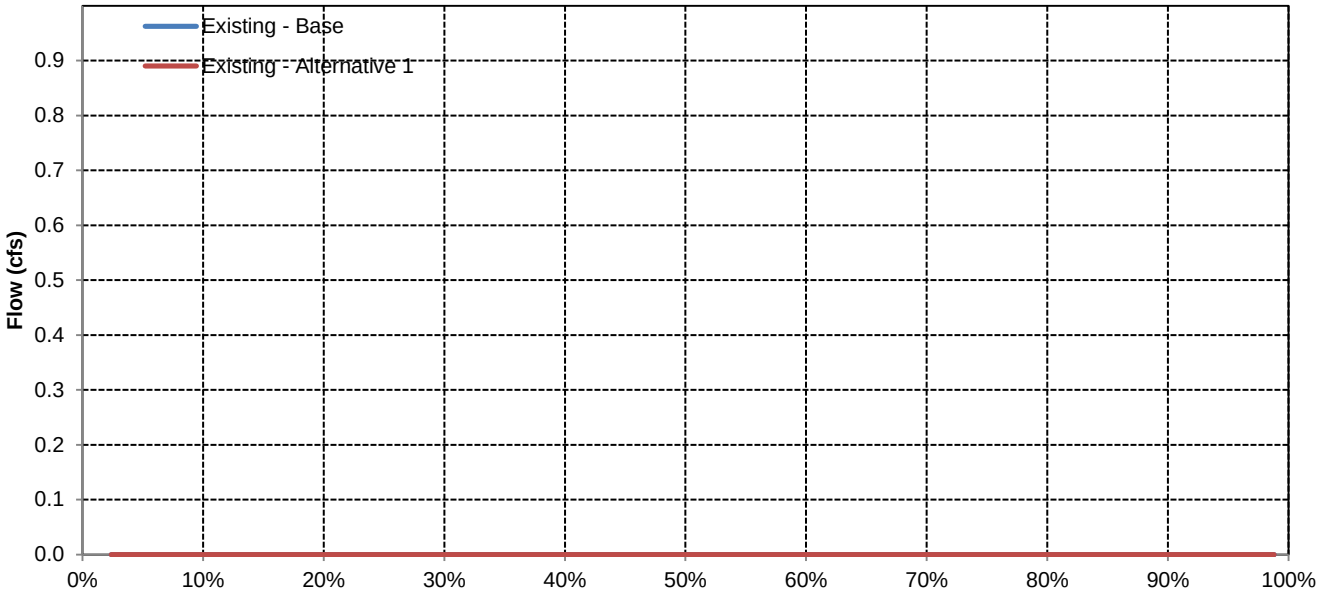


July

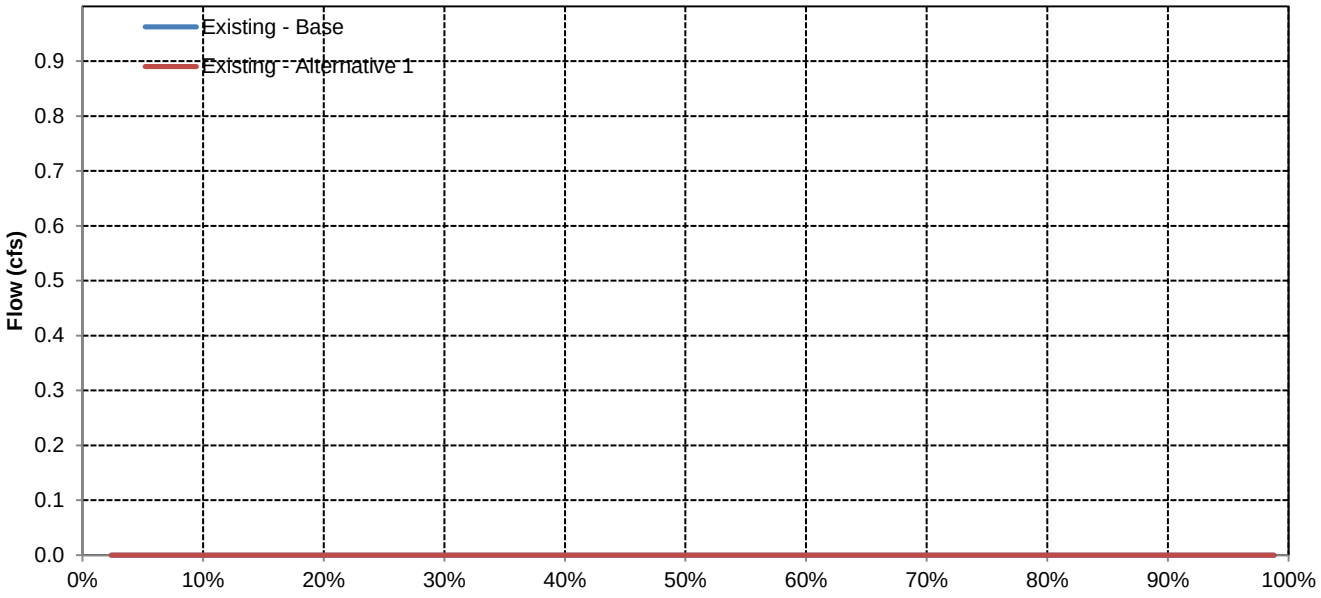


Fremont Weir Spill to Yolo Bypass

August



September



Long-Term and Water Year-Type Average of Sacramento River below Fremont Weir Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753	13,226
Existing - Alternative 1	9,484	12,377	19,211	27,598	33,813	29,578	18,487	11,524	11,174	16,563	12,346	14,753	13,039
Difference	0	-133	-515	-936	-1,067	-489	0	0	0	0	0	0	-187
Percent Difference	0%	-1%	-3%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821	19,273
Existing - Alternative 1	10,891	16,809	33,311	45,873	52,934	44,225	30,280	15,515	11,984	17,719	13,701	22,821	18,973
Difference	0	-372	-1,284	-1,515	-1,226	-592	0	0	0	0	0	0	-299
Percent Difference	0%	-2%	-4%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-2%
Above Normal													
Existing - Base	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430	15,325
Existing - Alternative 1	9,877	12,018	18,828	34,695	41,038	39,259	19,128	12,828	11,814	18,508	14,754	17,429	15,046
Difference	0	-40	-448	-1,629	-1,829	-749	0	0	-1	0	0	0	-279
Percent Difference	0%	0%	-2%	-4%	-4%	-2%	0%	0%	0%	0%	0%	0%	-2%
Below Normal													
Existing - Base	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737	11,081
Existing - Alternative 1	9,114	11,650	12,715	19,046	25,206	23,171	15,308	10,496	11,507	18,684	13,981	10,737	10,936
Difference	0	-49	-186	-693	-967	-559	0	0	0	0	0	0	-145
Percent Difference	0%	0%	-1%	-4%	-4%	-2%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040	9,128
Existing - Alternative 1	8,797	10,264	11,800	14,071	21,977	18,932	9,957	8,685	10,655	14,790	10,143	10,040	9,028
Difference	0	-19	-81	-324	-904	-379	0	-1	0	0	0	0	-100
Percent Difference	0%	0%	-1%	-2%	-4%	-2%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241	7,035
Existing - Alternative 1	7,603	7,349	9,304	12,577	14,730	12,654	9,151	7,145	9,068	11,571	7,736	7,241	6,999
Difference	0	0	-28	-199	-333	-62	0	0	0	0	0	0	-37
Percent Difference	0%	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%	-1%

Sacramento River below Fremont Weir

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,867	45,100	57,729	61,959	57,591	41,031	20,423	13,312	19,786	15,641	24,263
20%	11,568	15,291	30,157	49,978	58,550	49,208	29,852	12,476	12,632	19,450	14,918	21,584
30%	10,868	14,177	20,670	38,268	45,964	41,694	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,419	16,827	30,451	40,042	32,187	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,470	14,375	20,927	29,701	24,238	11,811	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,242	12,138	16,320	24,021	20,650	10,617	8,809	10,372	17,239	13,030	11,383
70%	7,401	8,651	11,421	13,695	18,359	16,099	9,968	8,553	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,557	11,396	14,745	13,147	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,140	12,940	10,022	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430
Below Normal	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737
Dry	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241

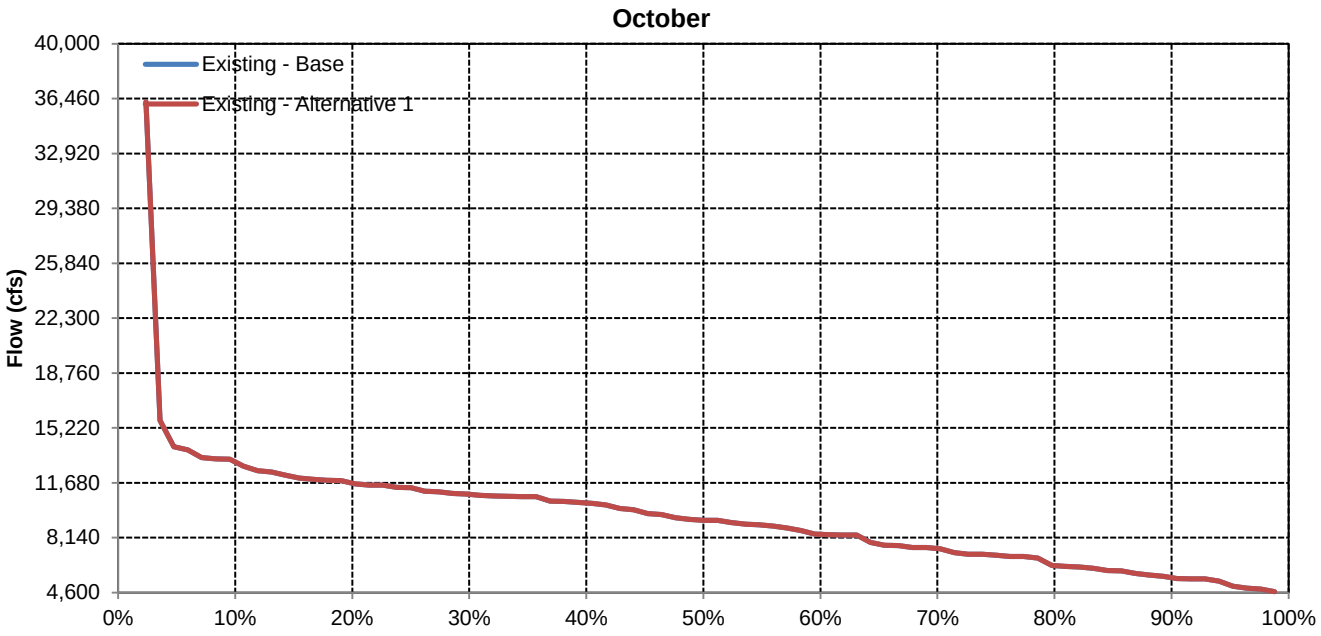
Existing - Alternative 1

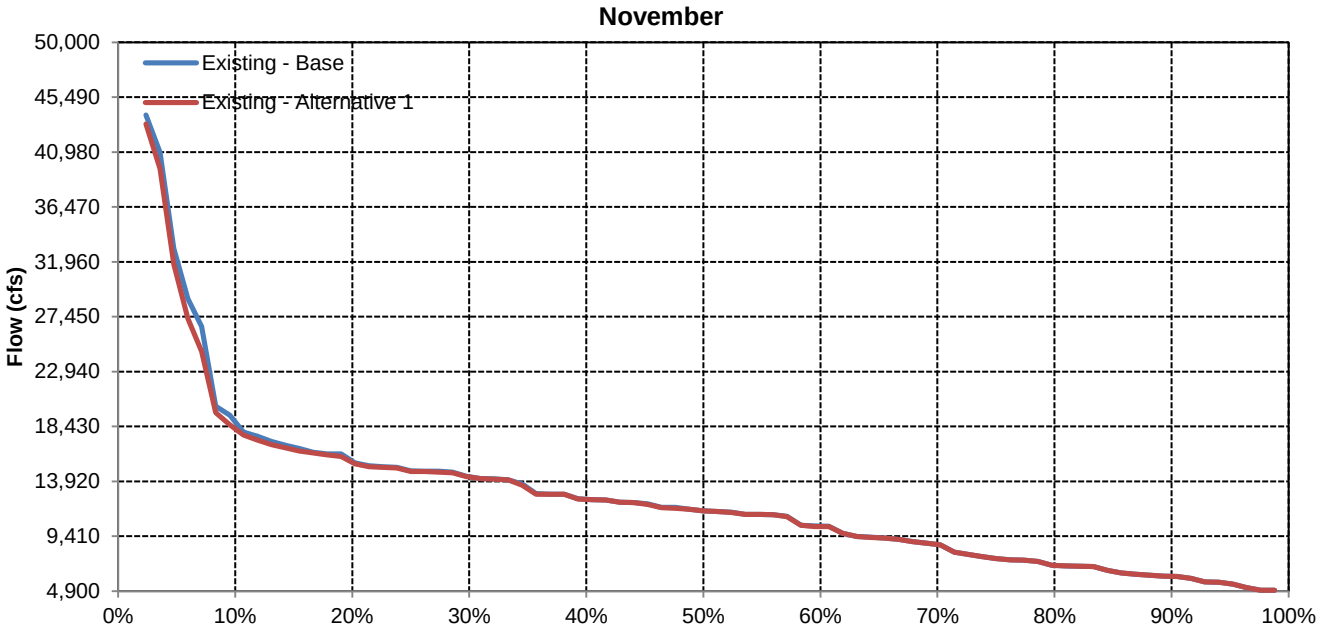
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,599	42,750	56,285	61,959	57,172	41,031	20,423	13,306	19,786	15,640	24,263
20%	11,568	15,215	28,123	48,490	57,226	48,065	29,853	12,476	12,632	19,450	14,919	21,584
30%	10,868	14,167	20,162	35,550	44,580	40,992	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,416	16,661	28,390	37,195	31,563	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,471	14,256	20,392	27,779	24,044	11,812	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,205	12,113	16,017	23,028	20,311	10,617	8,809	10,372	17,239	13,028	11,384
70%	7,401	8,651	11,420	13,644	18,113	16,061	9,968	8,552	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,555	11,376	14,656	13,096	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,136	12,908	10,018	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,377	19,211	27,598	33,813	29,578	18,487	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	16,809	33,311	45,873	52,934	44,225	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,018	18,828	34,695	41,038	39,259	19,128	12,828	11,814	18,508	14,754	17,429
Below Normal	9,114	11,650	12,715	19,046	25,206	23,171	15,308	10,496	11,507	18,684	13,981	10,737
Dry	8,797	10,264	11,800	14,071	21,977	18,932	9,957	8,685	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,304	12,577	14,730	12,654	9,151	7,145	9,068	11,571	7,736	7,241

Existing - Alternative 1 Minus Existing - Base

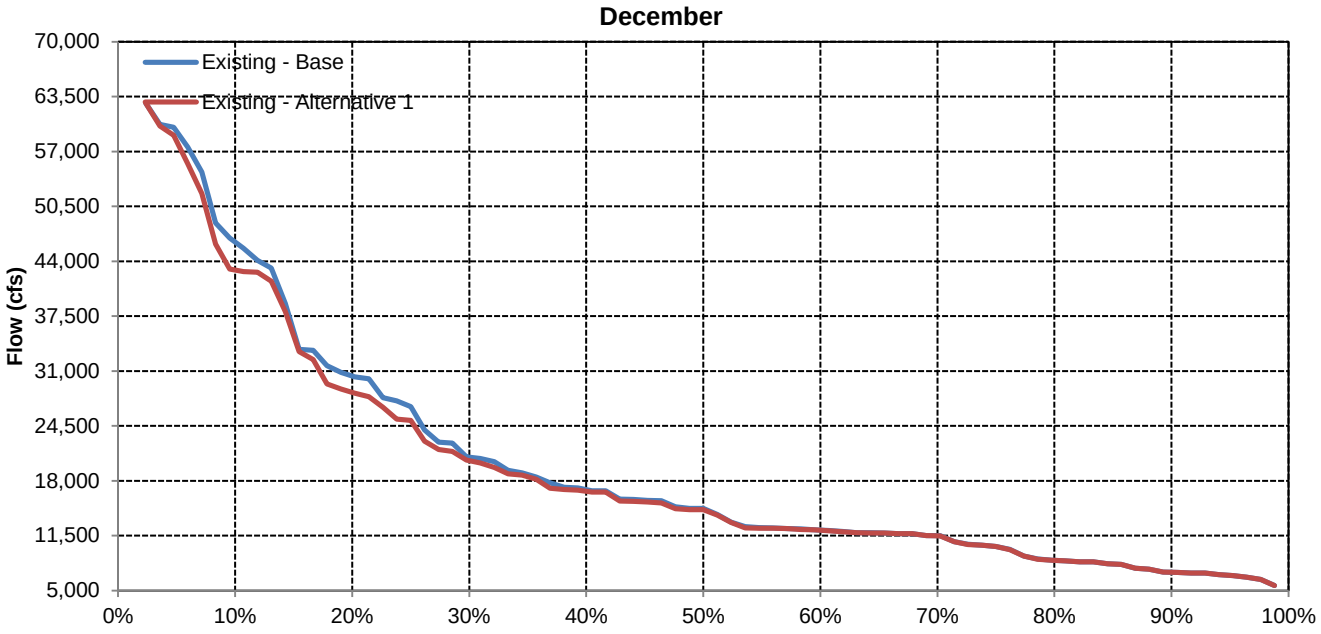
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-268	-2,351	-1,444	0	-420	0	0	-6	0	0	0
20%	0	-76	-2,034	-1,488	-1,325	-1,143	1	0	0	0	0	0
30%	0	-10	-508	-2,718	-1,384	-702	0	0	0	0	0	0
40%	0	-3	-166	-2,062	-2,847	-624	0	0	0	0	0	0
50%	0	0	-120	-535	-1,923	-194	0	0	0	0	0	0
60%	0	-37	-25	-303	-993	-339	0	0	0	0	-2	0
70%	-1	0	-2	-51	-246	-38	0	0	0	0	0	0
80%	0	0	-2	-20	-89	-51	0	0	0	0	0	0
90%	0	0	0	-4	-32	-3	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	-133	-515	-936	-1,067	-489	0	0	0	0	0	0
Water Year Types												
Wet	0	-372	-1,284	-1,515	-1,226	-592	0	0	0	0	0	0
Above Normal	0	-40	-448	-1,629	-1,829	-749	0	0	-1	0	0	0
Below Normal	0	-49	-186	-693	-967	-559	0	0	0	0	0	0
Dry	0	-19	-81	-324	-904	-379	0	-1	0	0	0	0
Critical	0	0	-28	-199	-333	-62	0	0	0	0	0	0

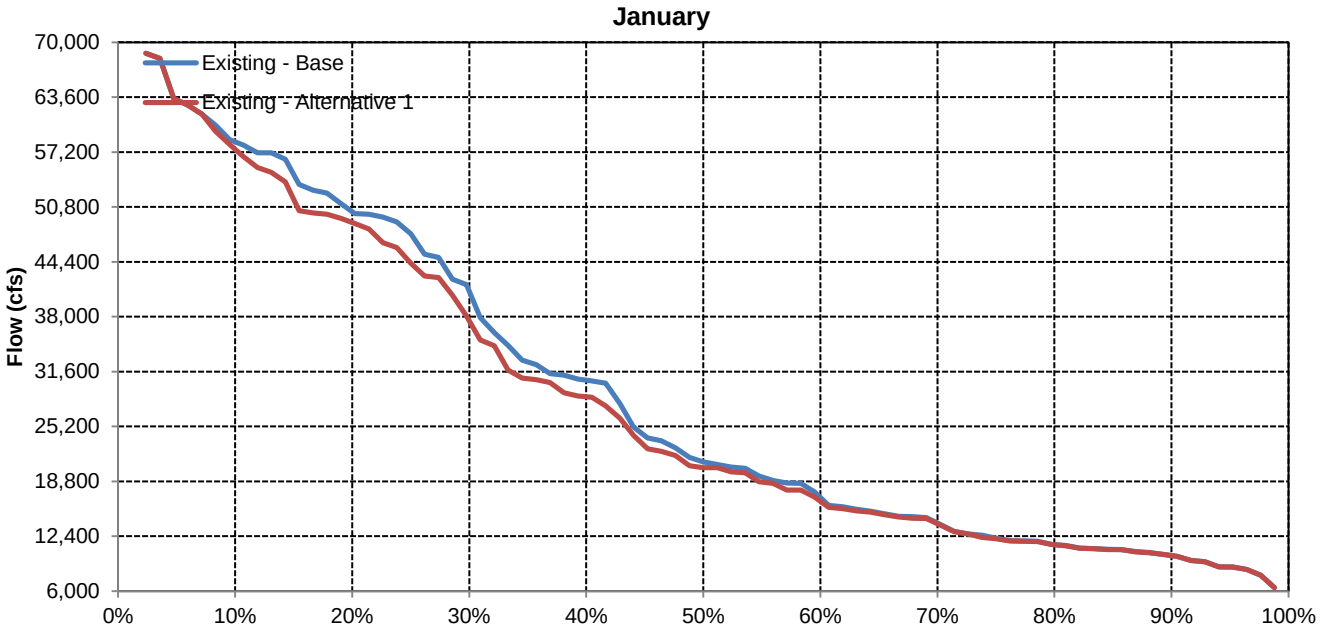
Sacramento River below Fremont Weir



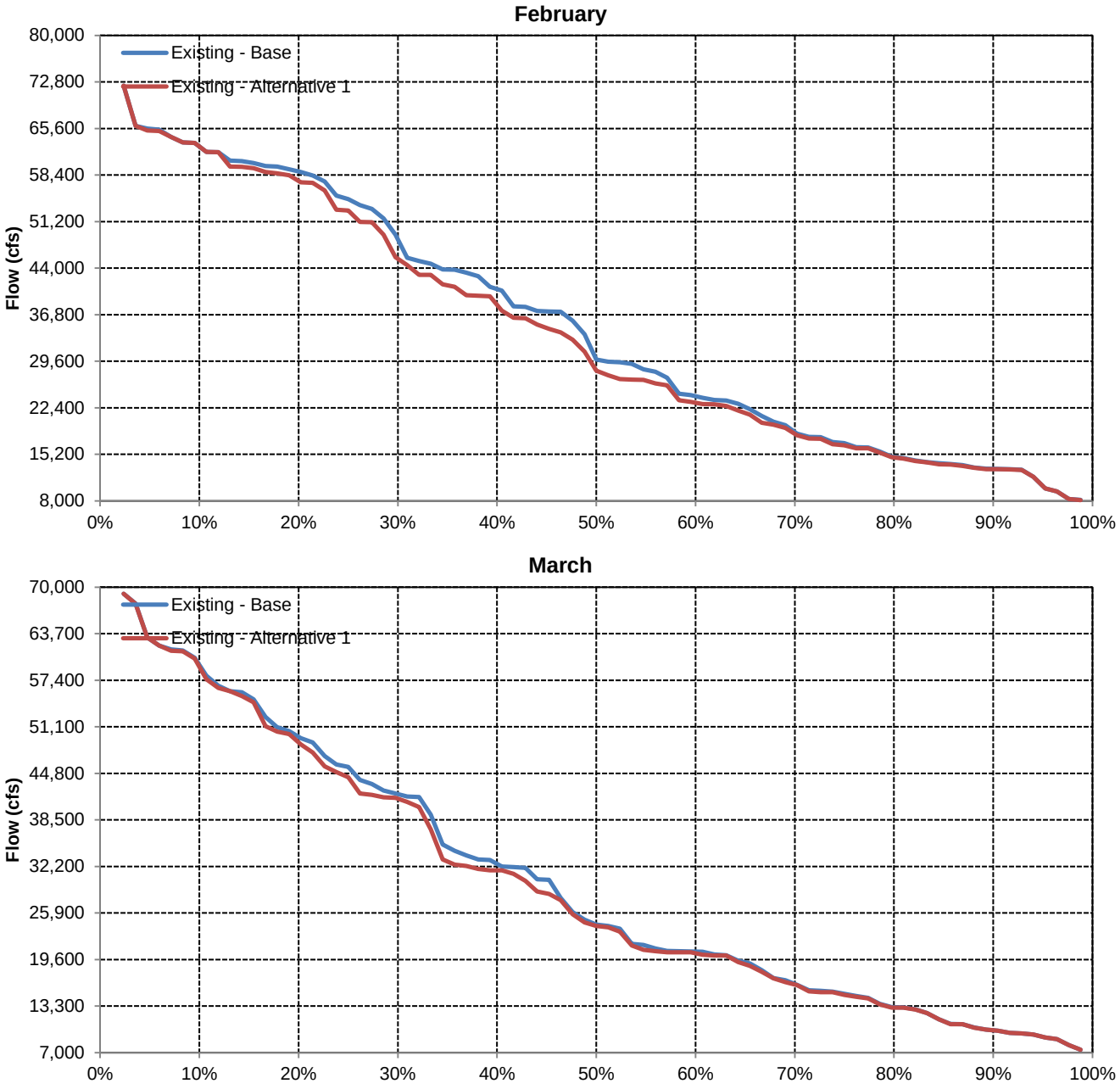


Sacramento River below Fremont Weir

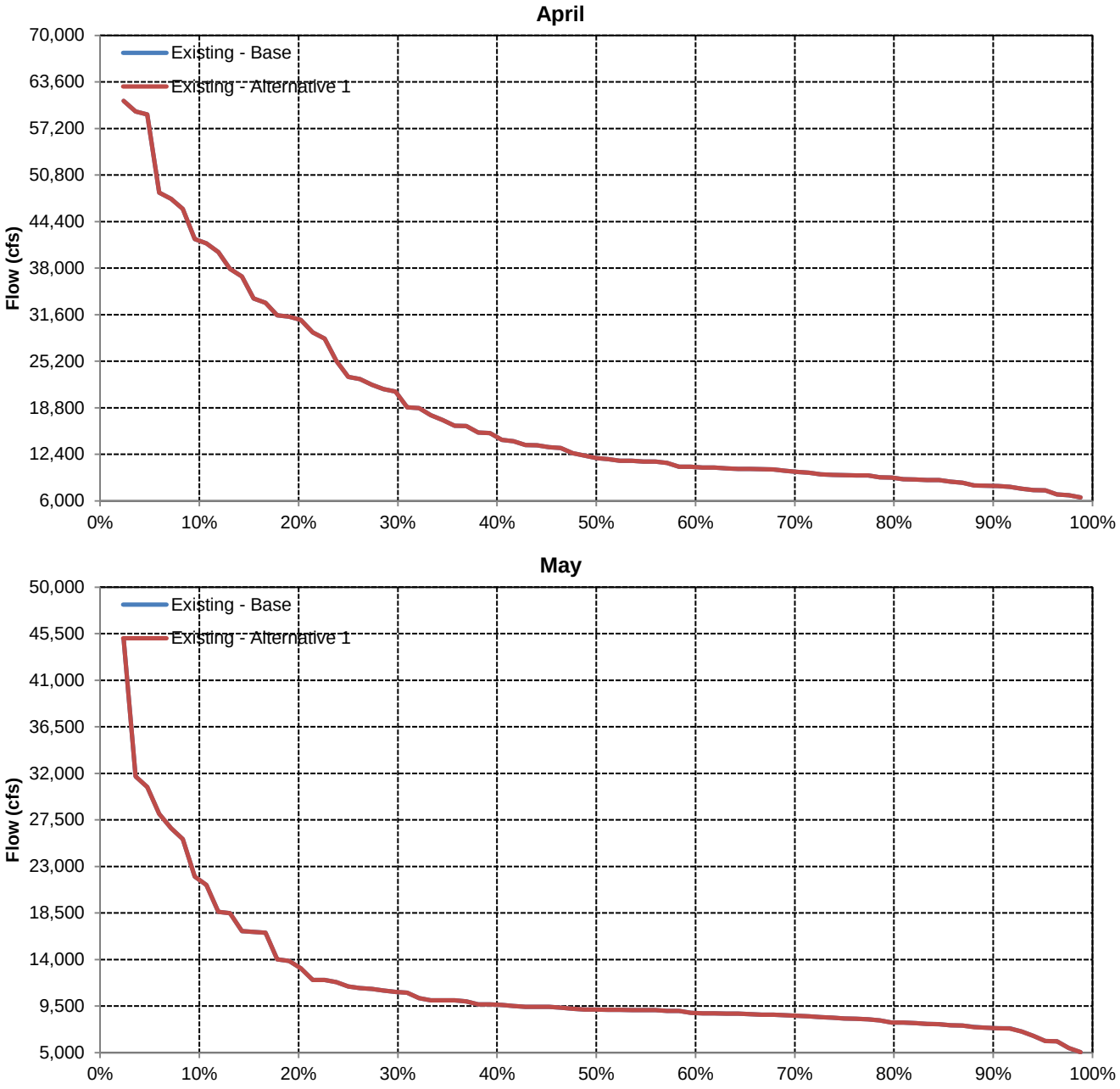




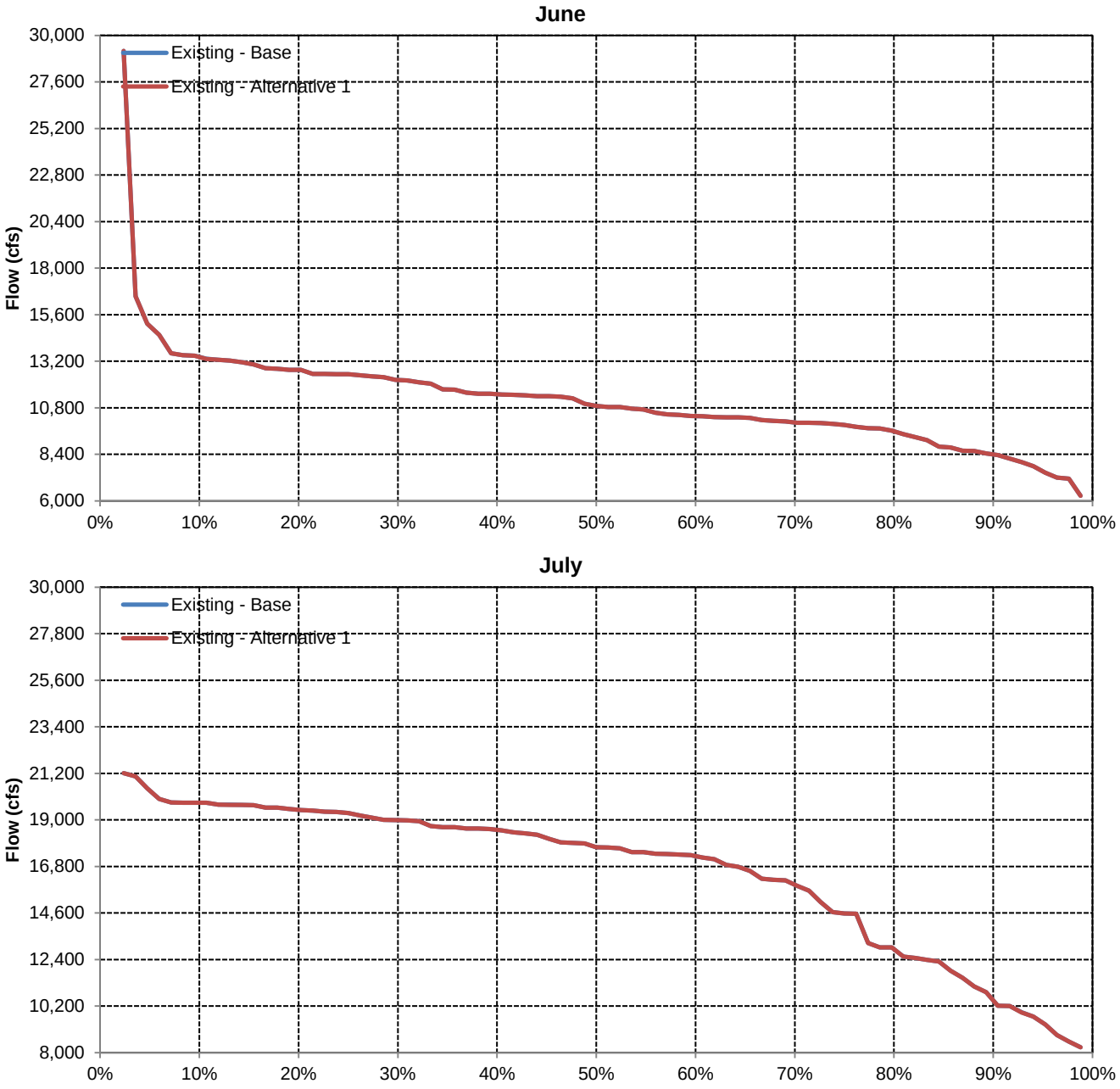
Sacramento River below Fremont Weir



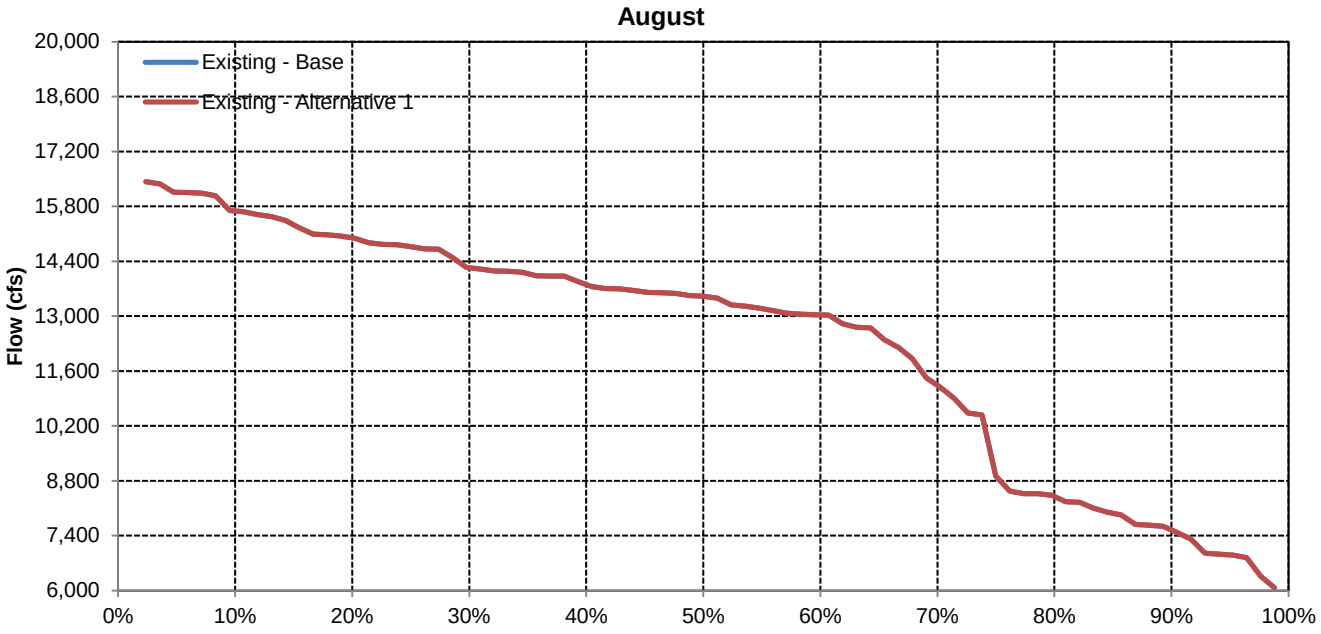
Sacramento River below Fremont Weir

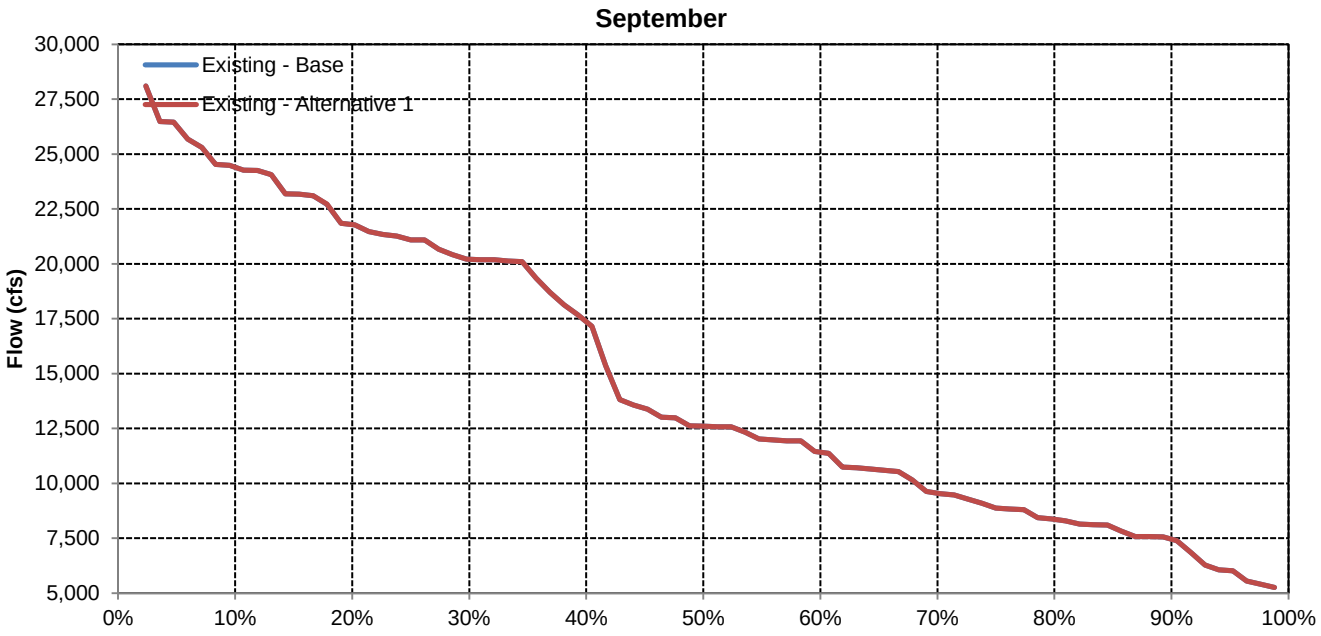


Sacramento River below Fremont Weir



Sacramento River below Fremont Weir





Long-Term and Water Year-Type Average of Trinity Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Existing - Alternative 1	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Existing - Alternative 1	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Existing - Alternative 1	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Existing - Alternative 1	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Existing - Alternative 1	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Existing - Alternative 1	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Trinity Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 1

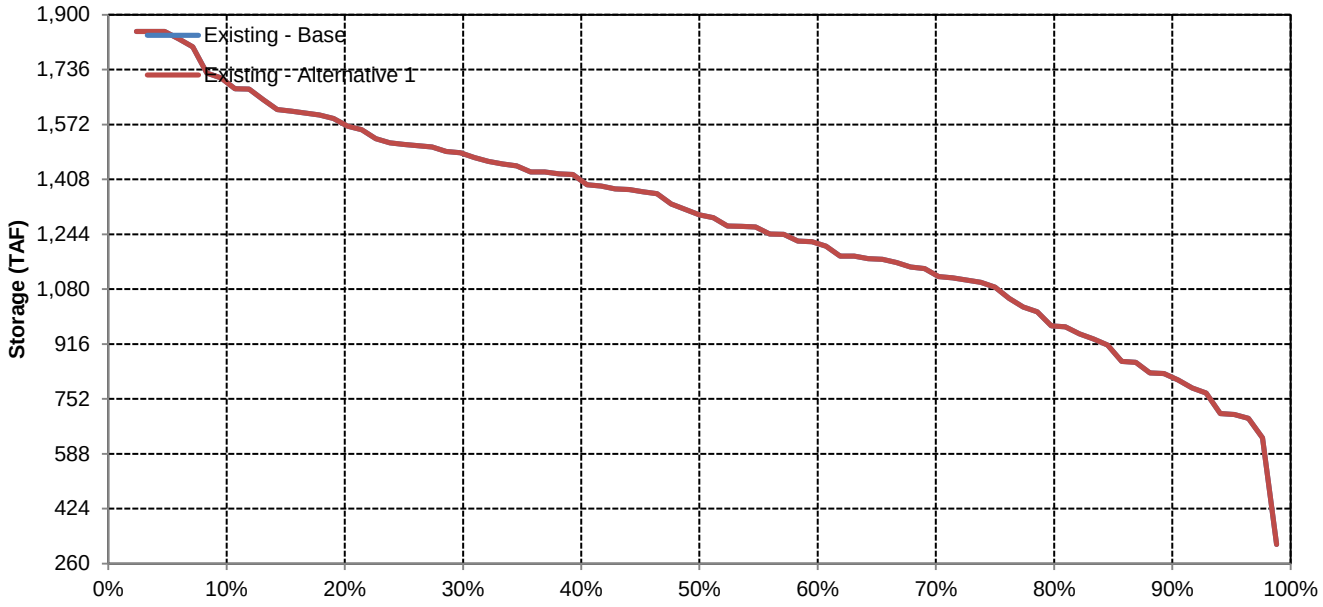
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 1 Minus Existing - Base

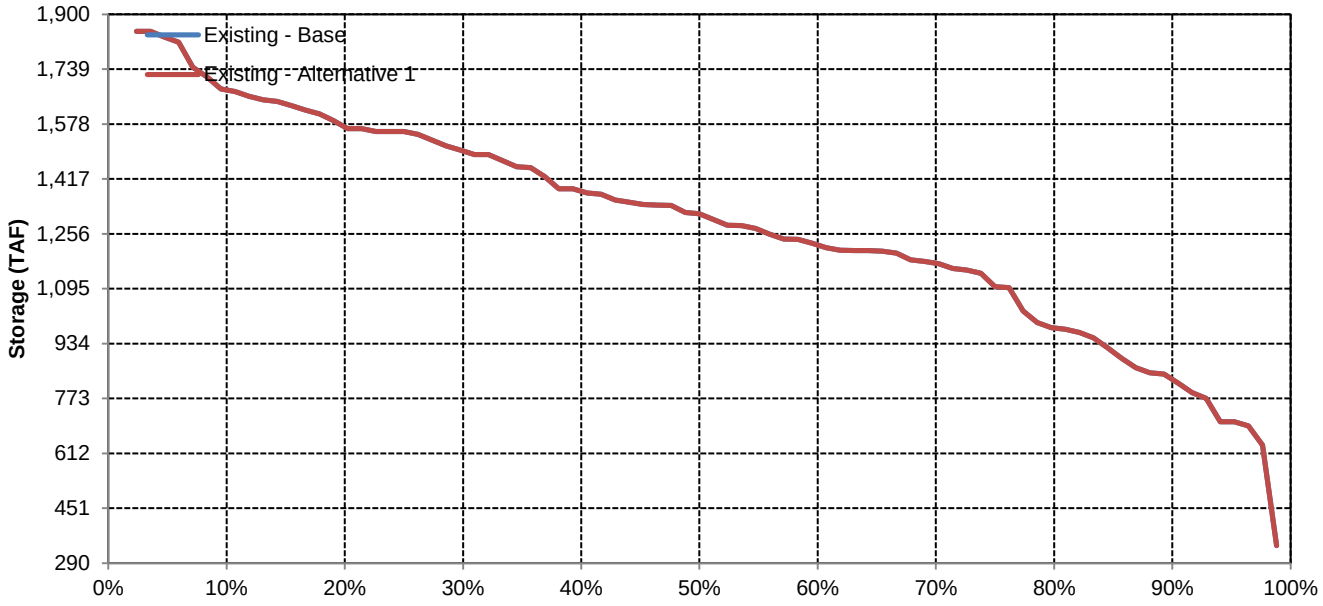
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Trinity Reservoir

October

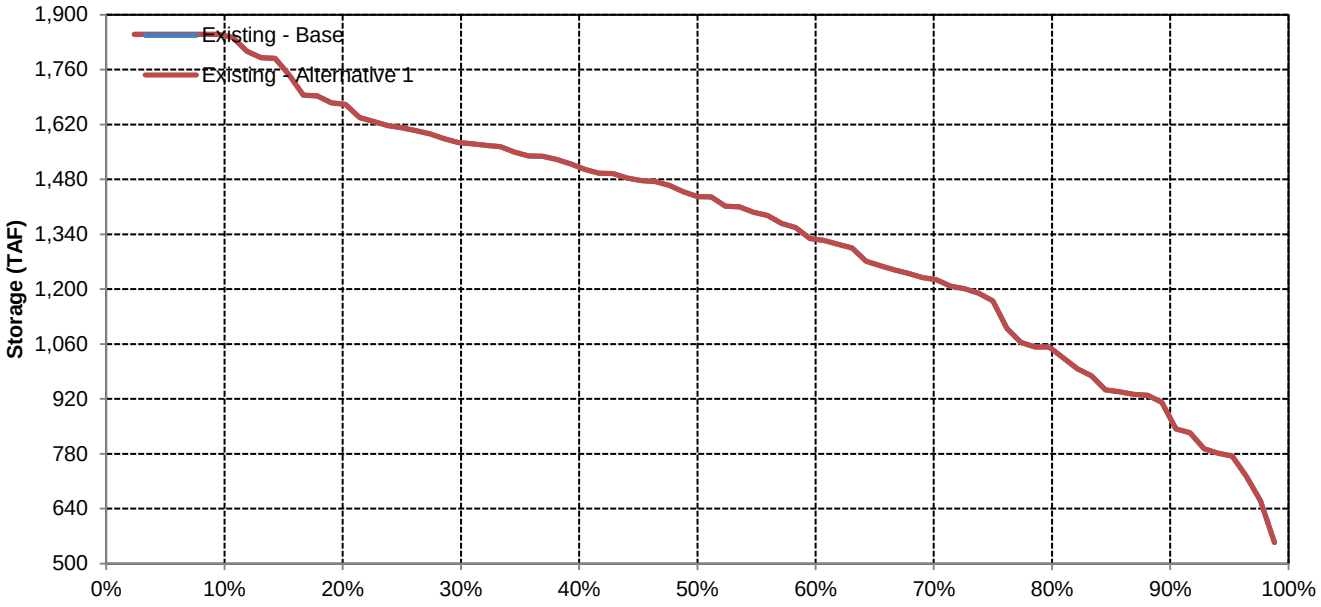


November

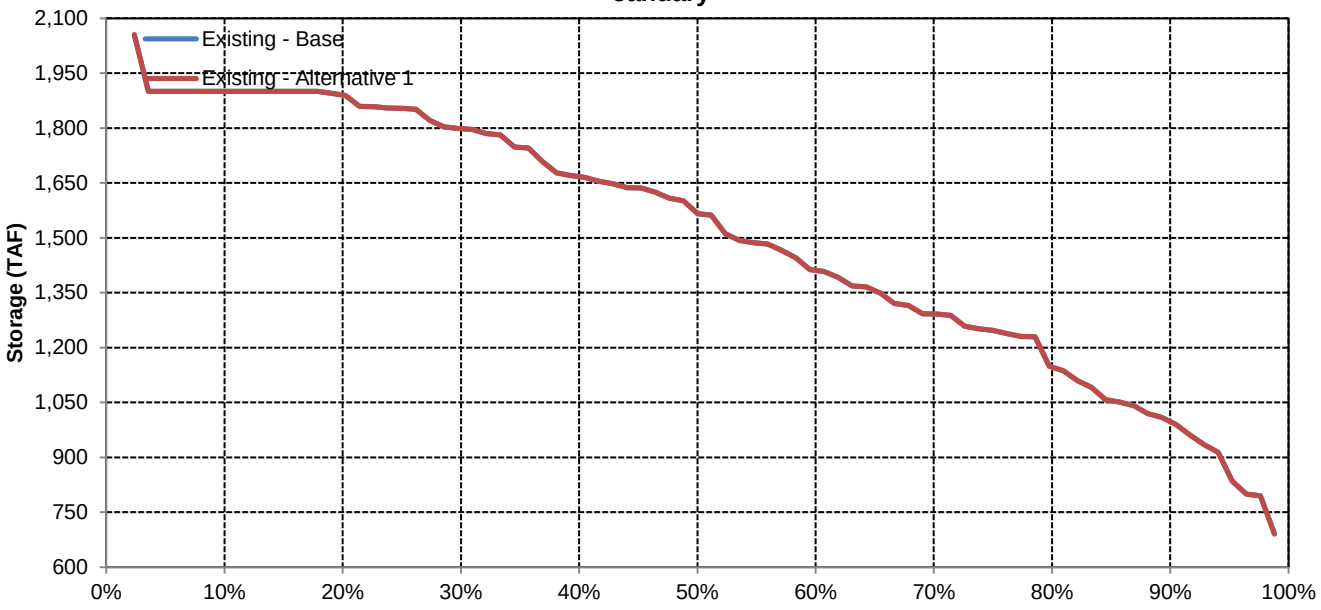


Trinity Reservoir

December

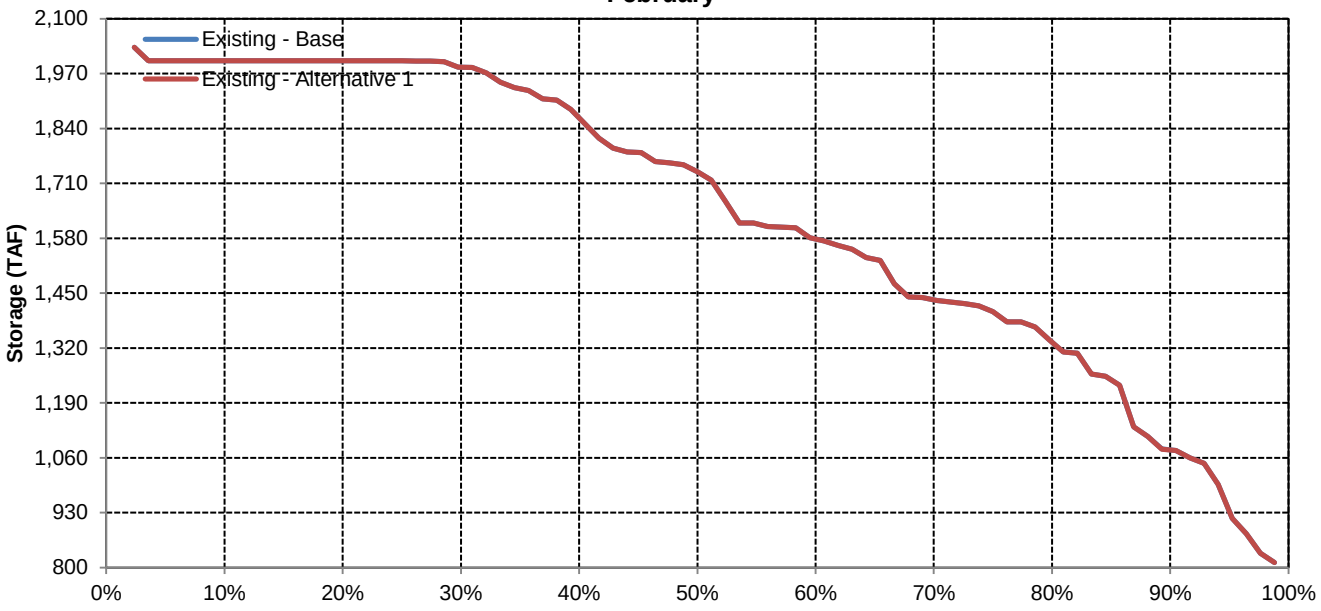


January

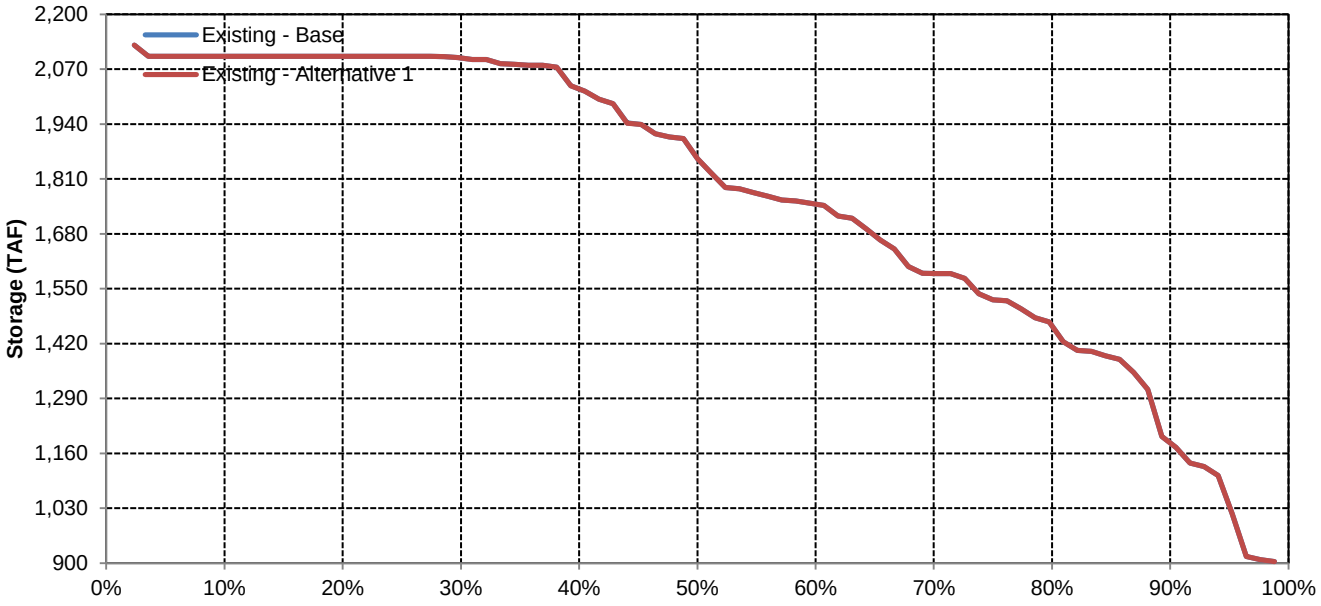


Trinity Reservoir

February

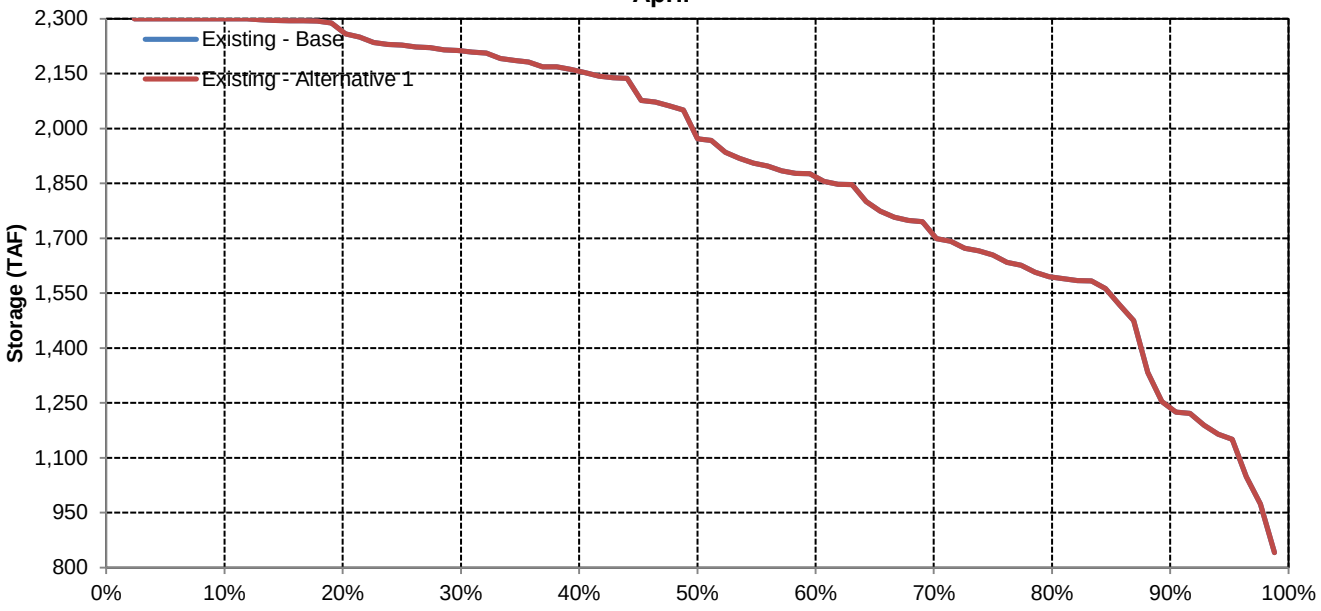


March

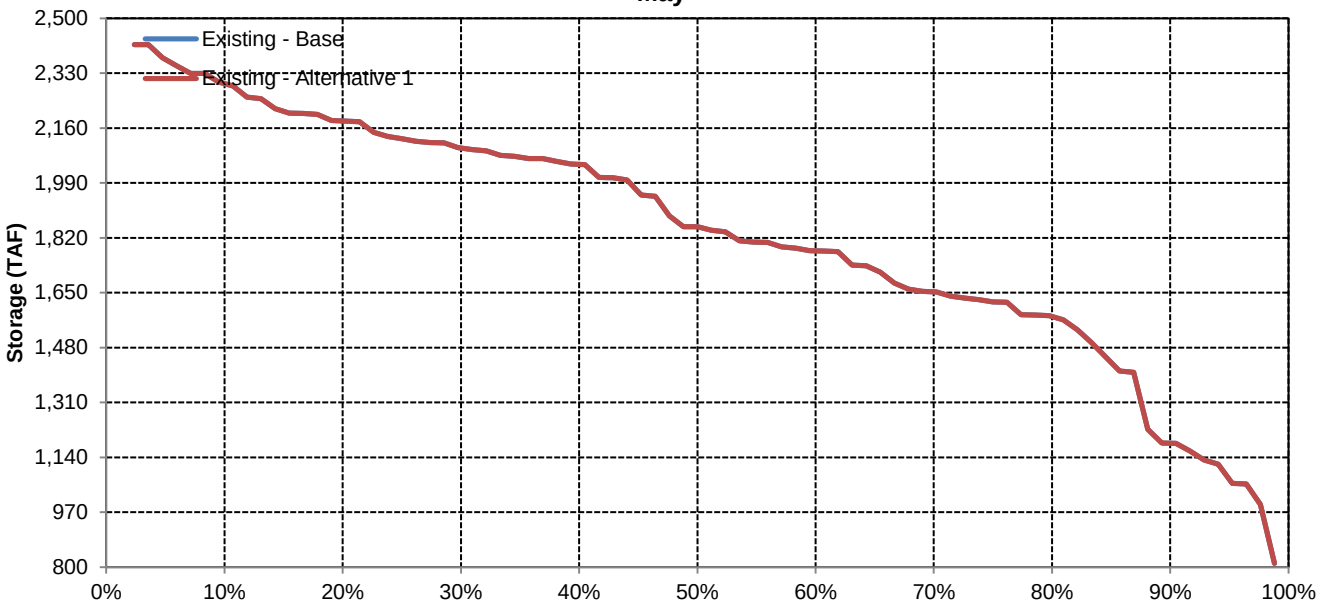


Trinity Reservoir

April

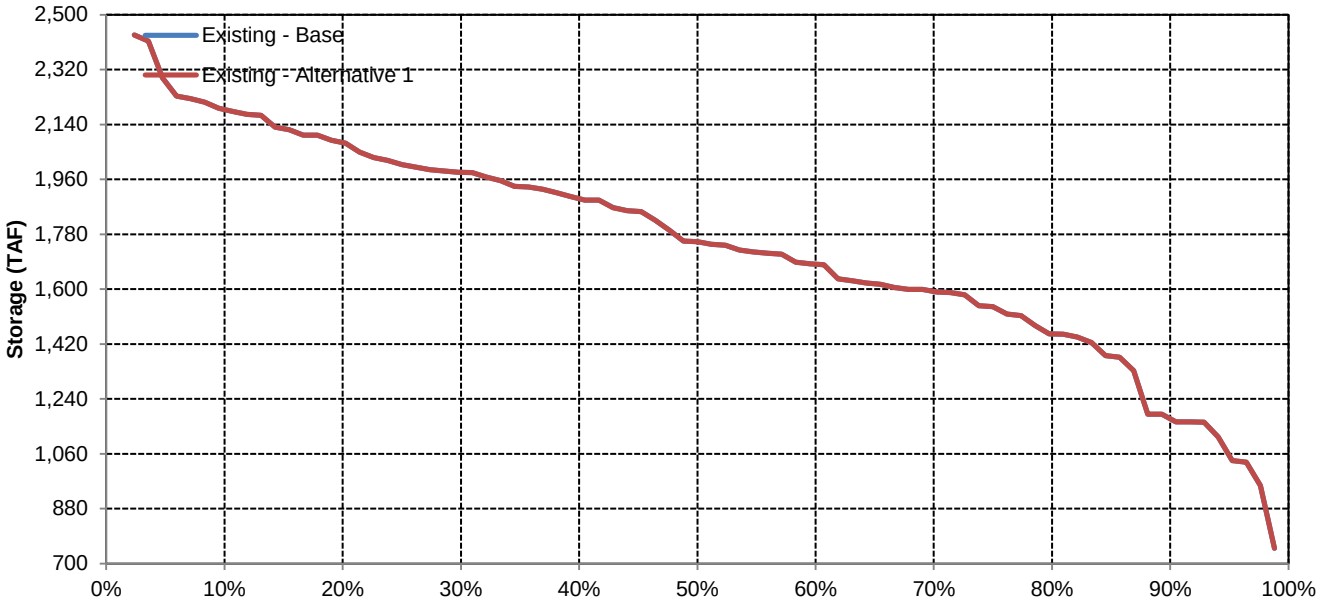


May

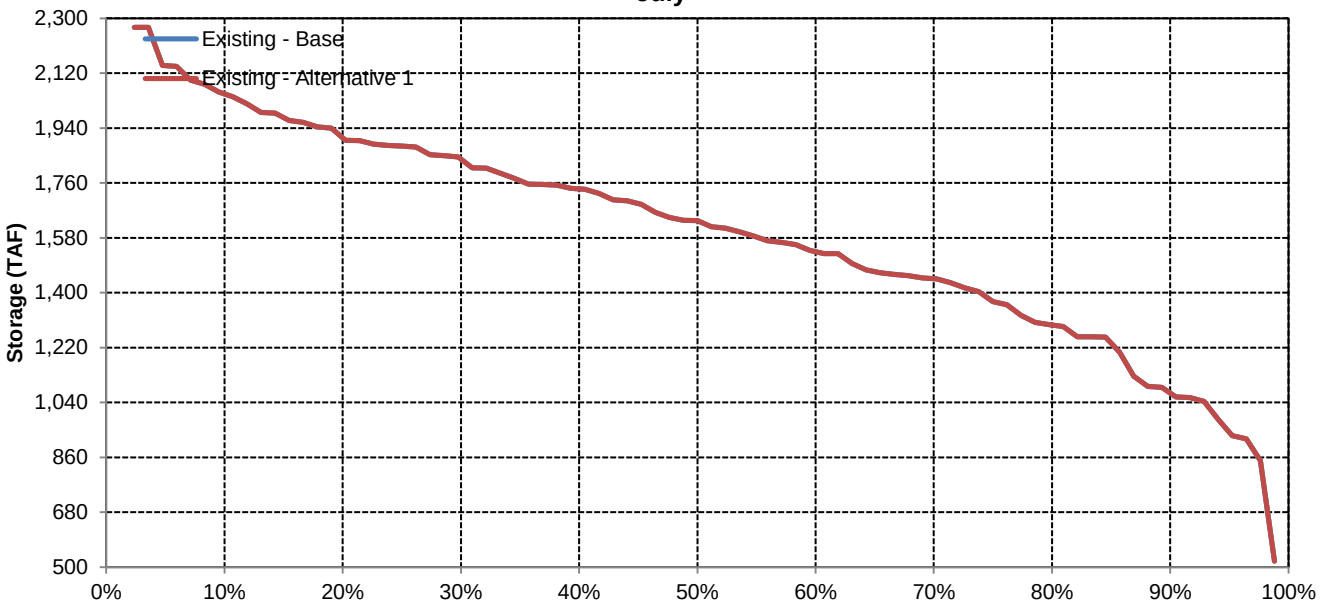


Trinity Reservoir

June

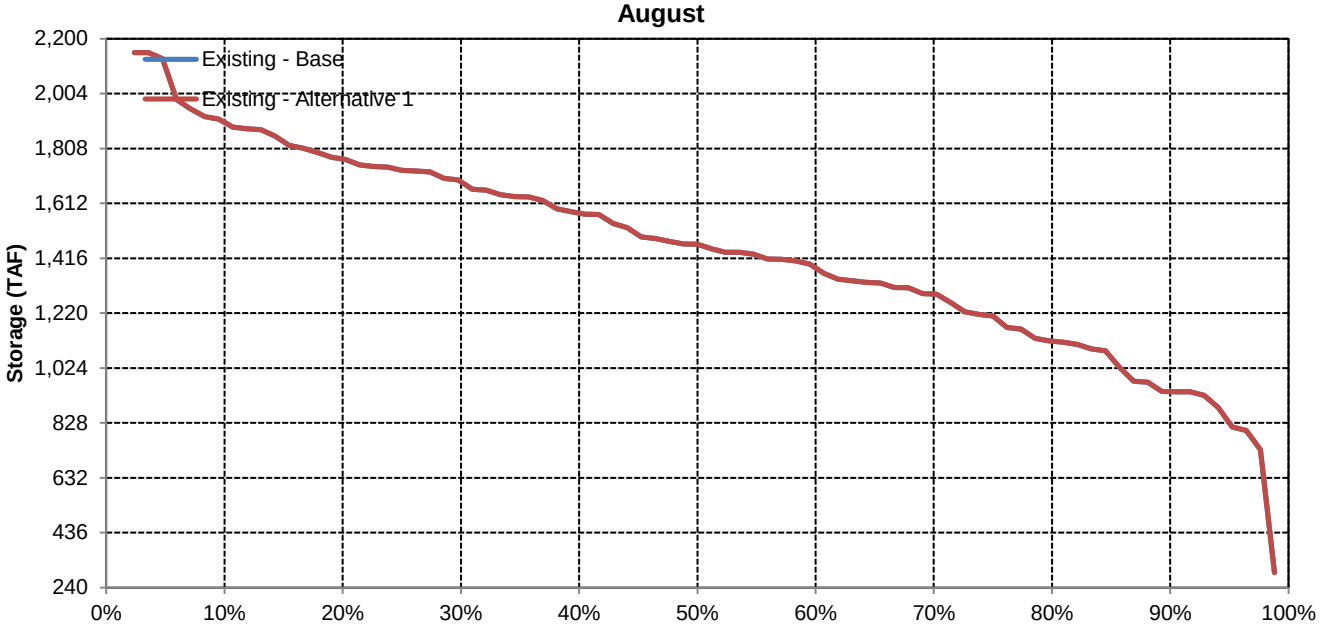


July

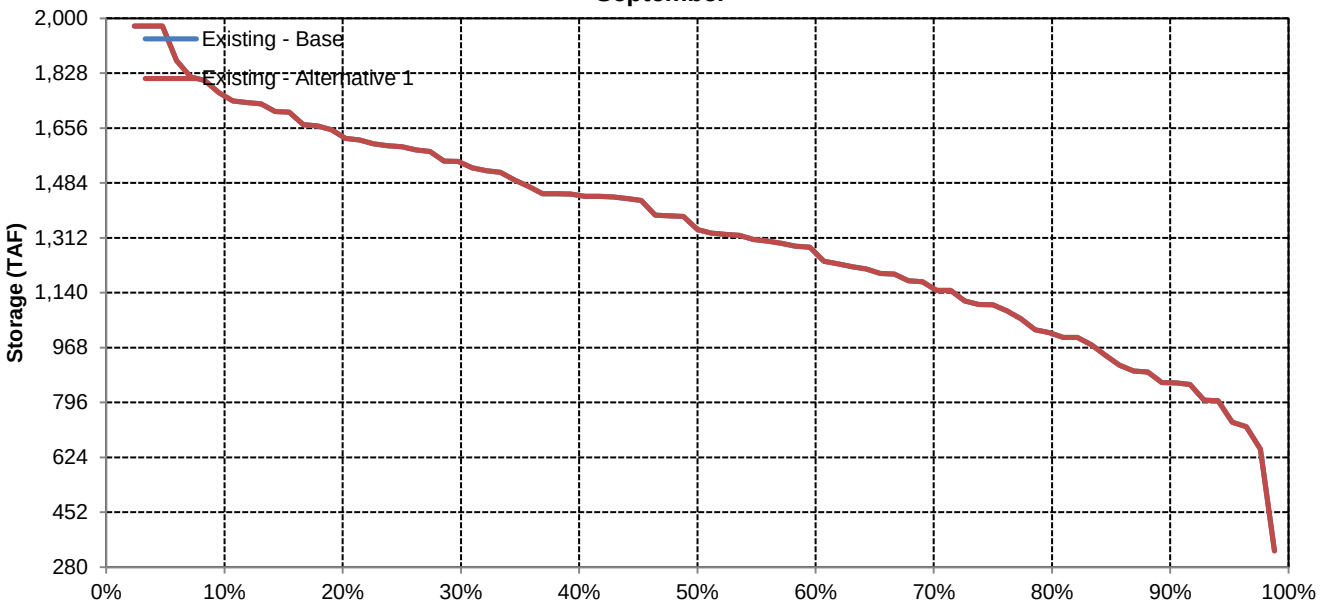


Trinity Reservoir

August



September



Long-Term and Water Year-Type Average of Shasta Reservoir Storage Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Existing - Alternative 1	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Existing - Alternative 1	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Existing - Alternative 1	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Existing - Alternative 1	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Existing - Alternative 1	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Existing - Alternative 1	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Shasta Reservoir Storage

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,296	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,461	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,490
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

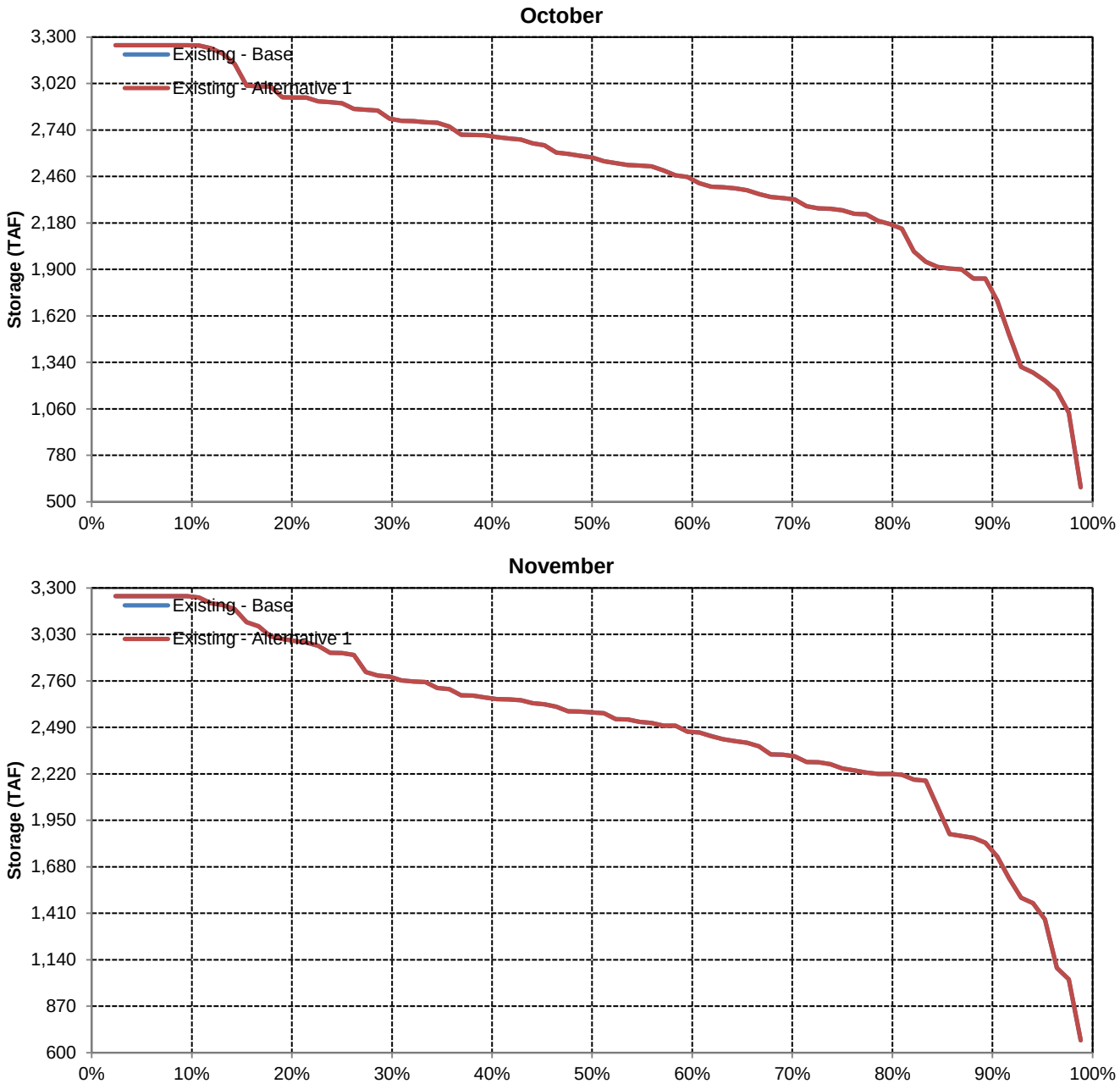
Existing - Alternative 1

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,297	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,462	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,491
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

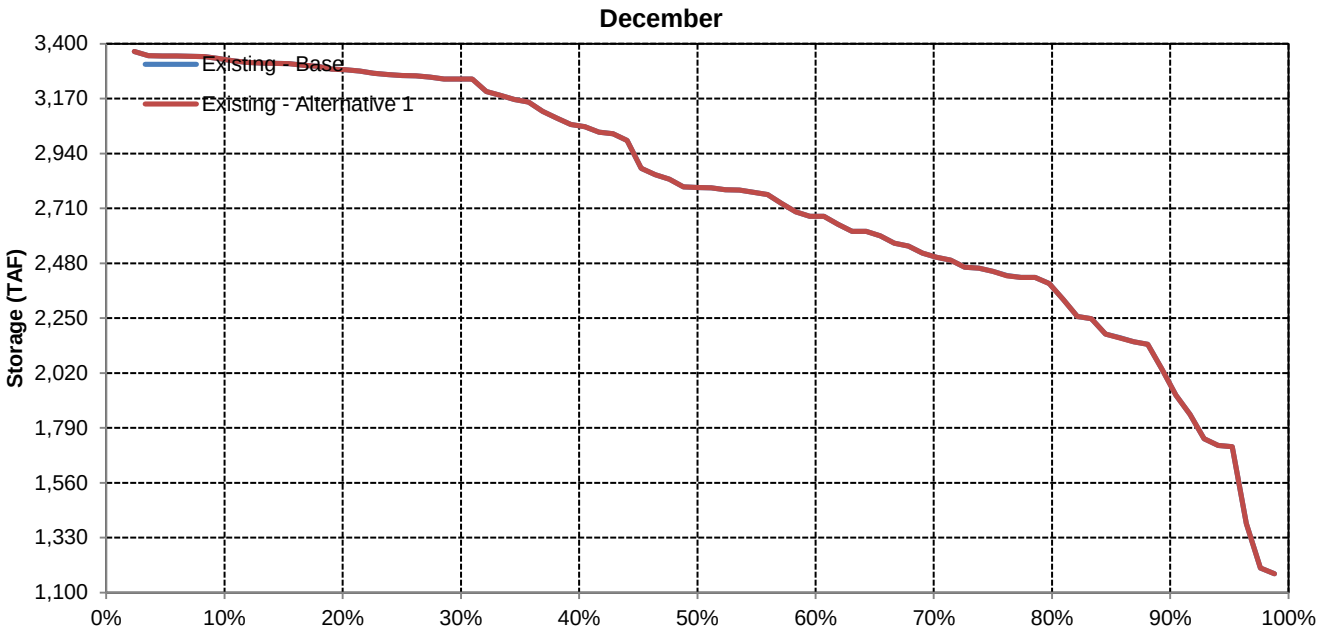
Existing - Alternative 1 Minus Existing - Base

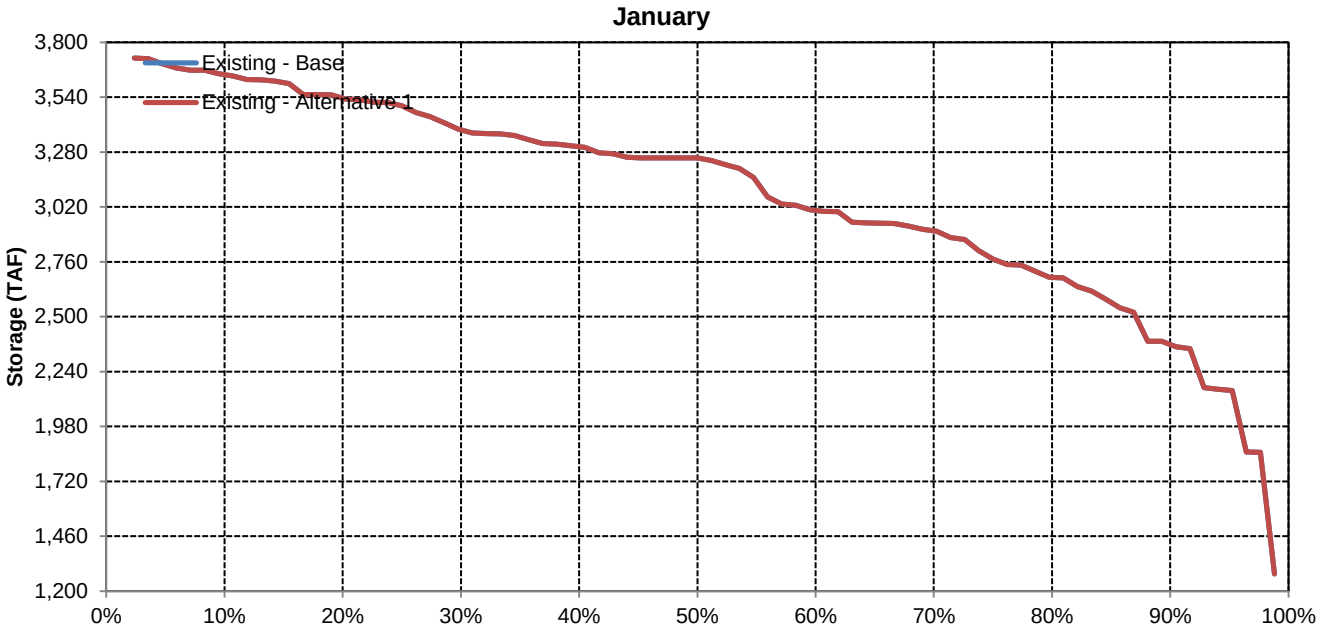
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Shasta Reservoir Storage

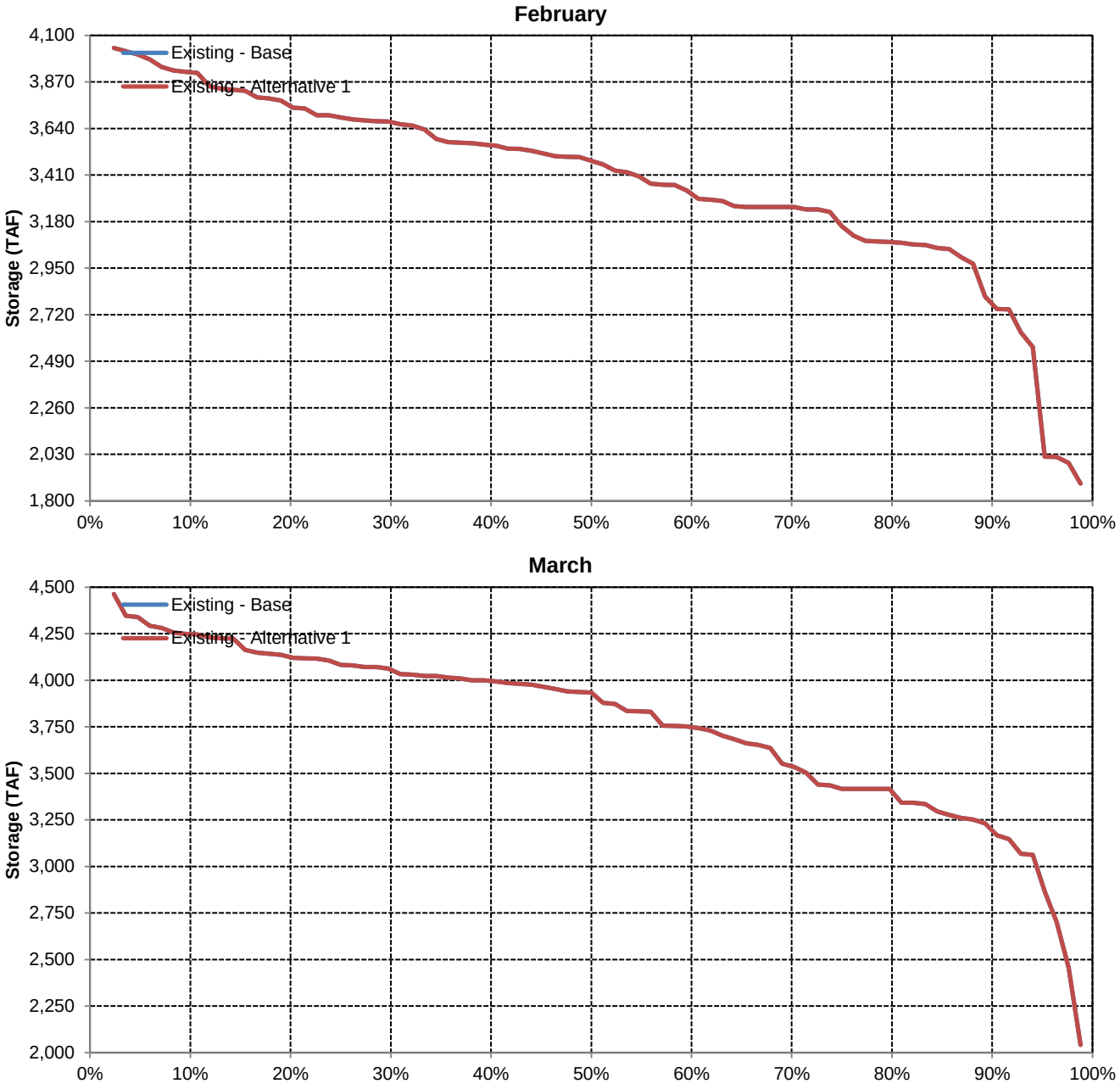


Shasta Reservoir Storage

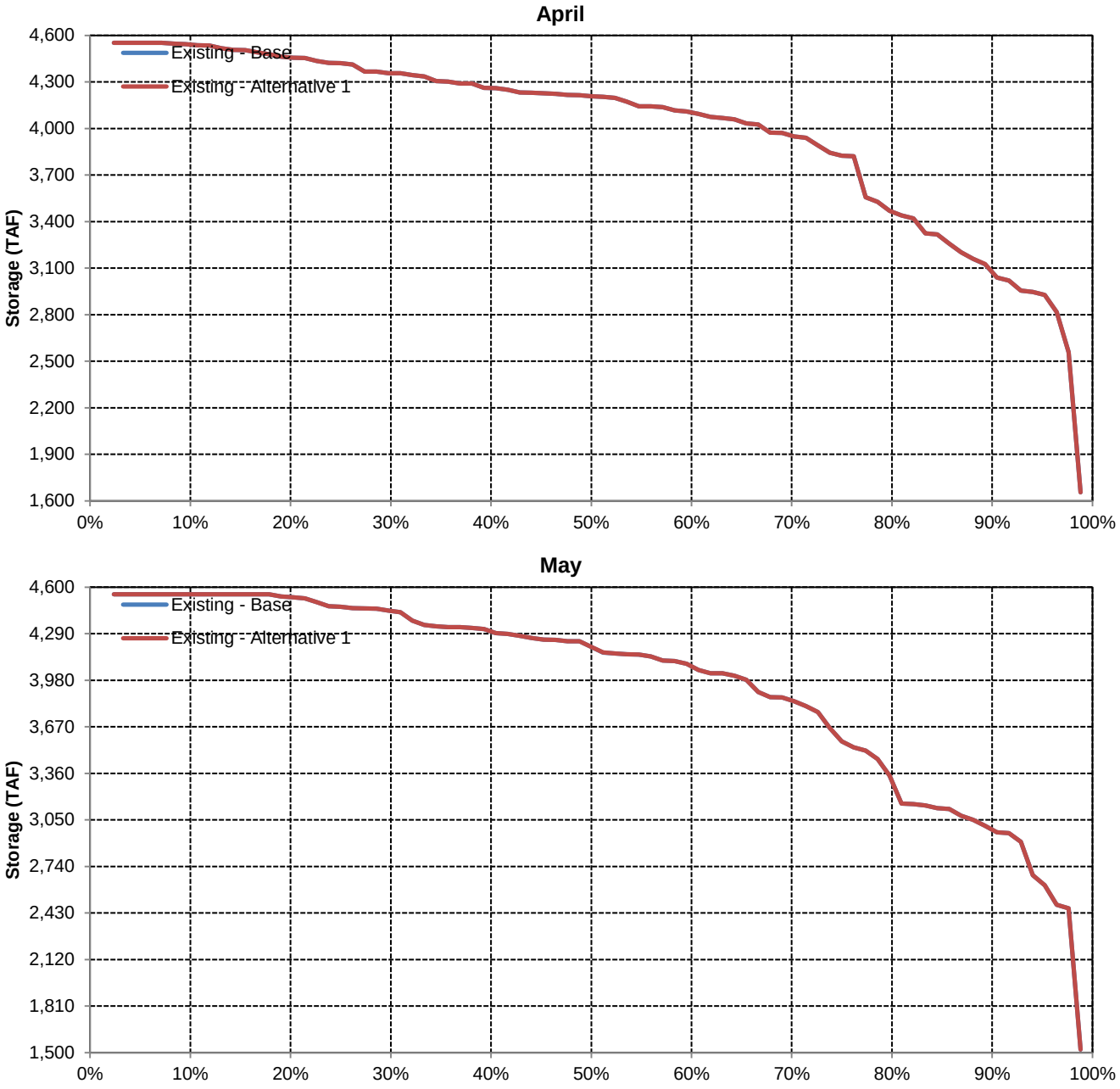




Shasta Reservoir Storage

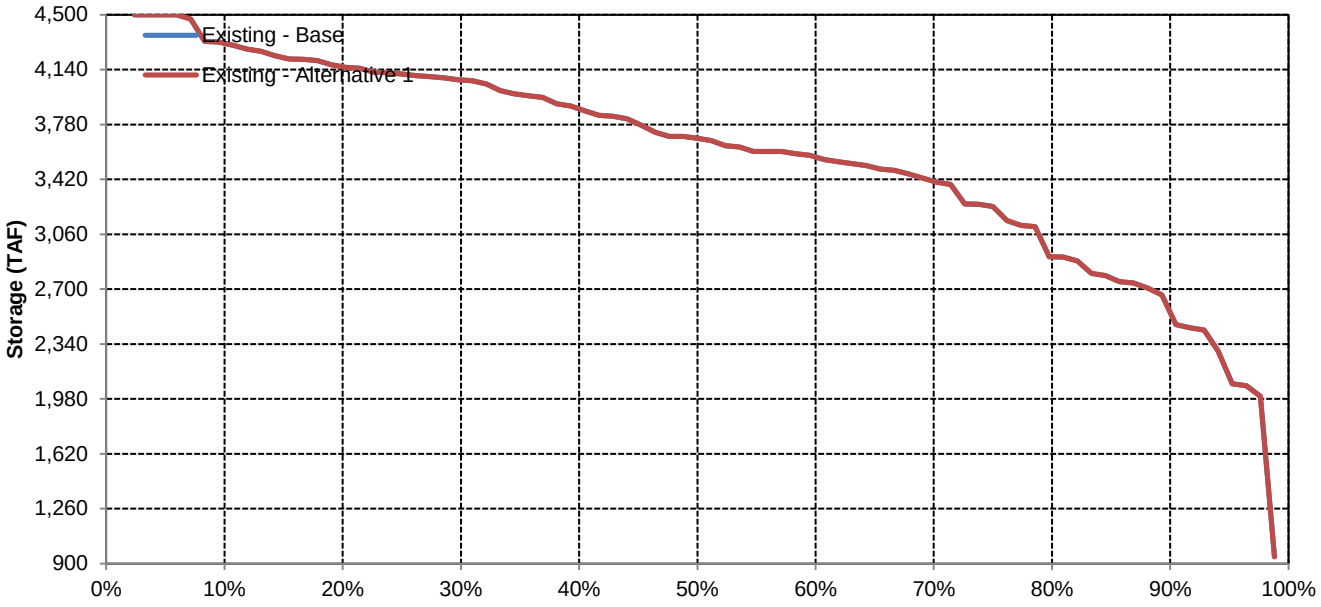


Shasta Reservoir Storage

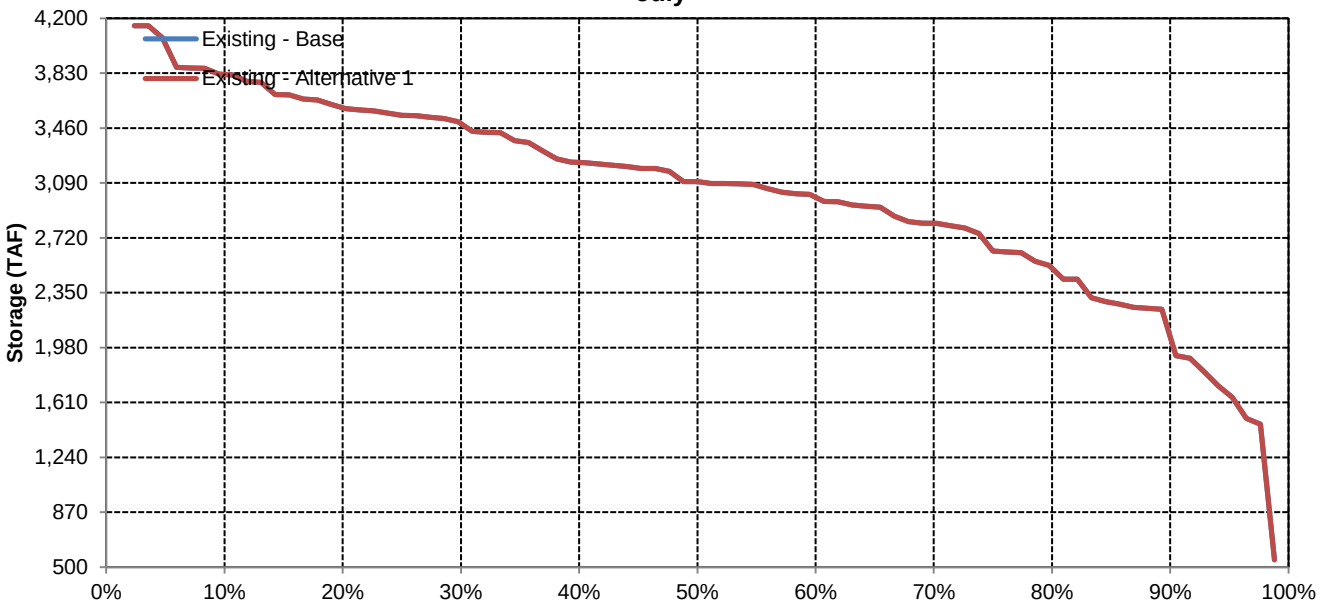


Shasta Reservoir Storage

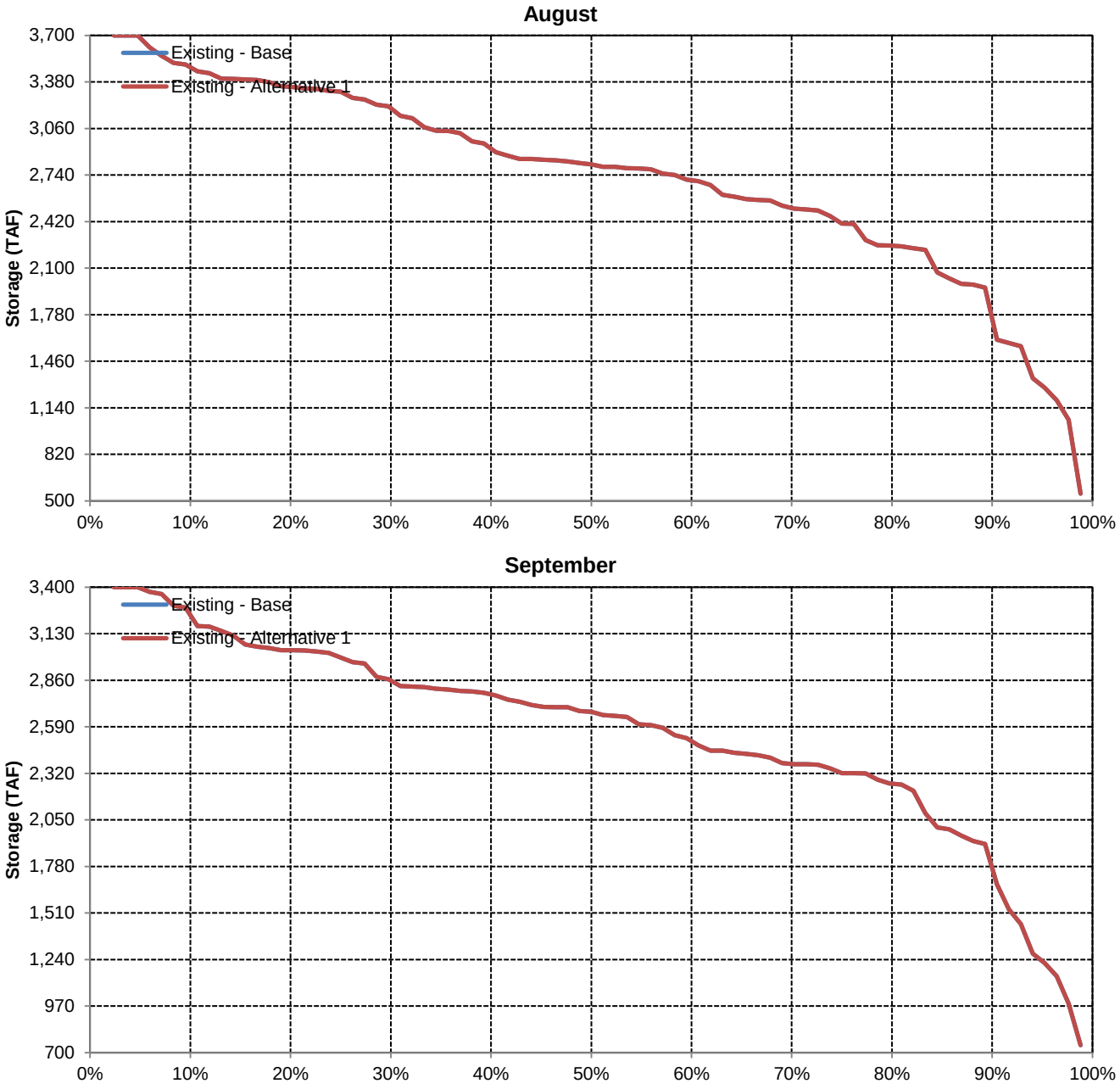
June



July



Shasta Reservoir Storage



Long-Term and Water Year-Type Average of Oroville Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Existing - Alternative 1	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Existing - Alternative 1	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Existing - Alternative 1	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Existing - Alternative 1	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Existing - Alternative 1	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Existing - Alternative 1	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Oroville Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,474	1,911	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,391
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,289
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 1

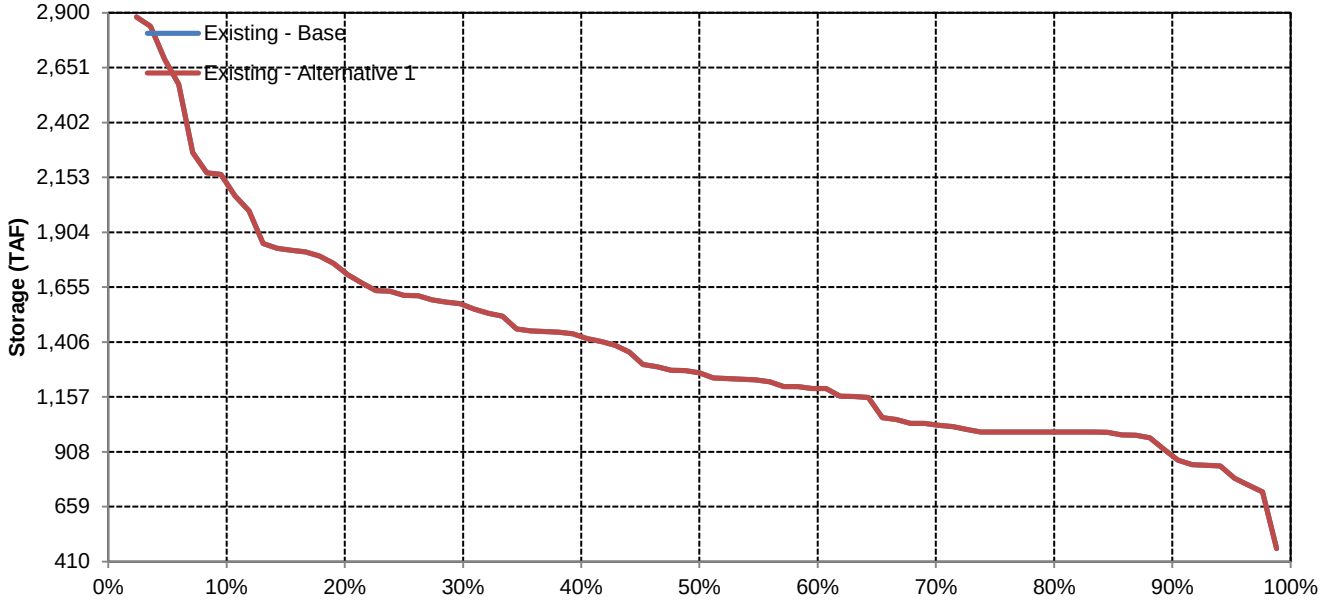
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,473	1,912	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,392
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,290
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 1 Minus Existing - Base

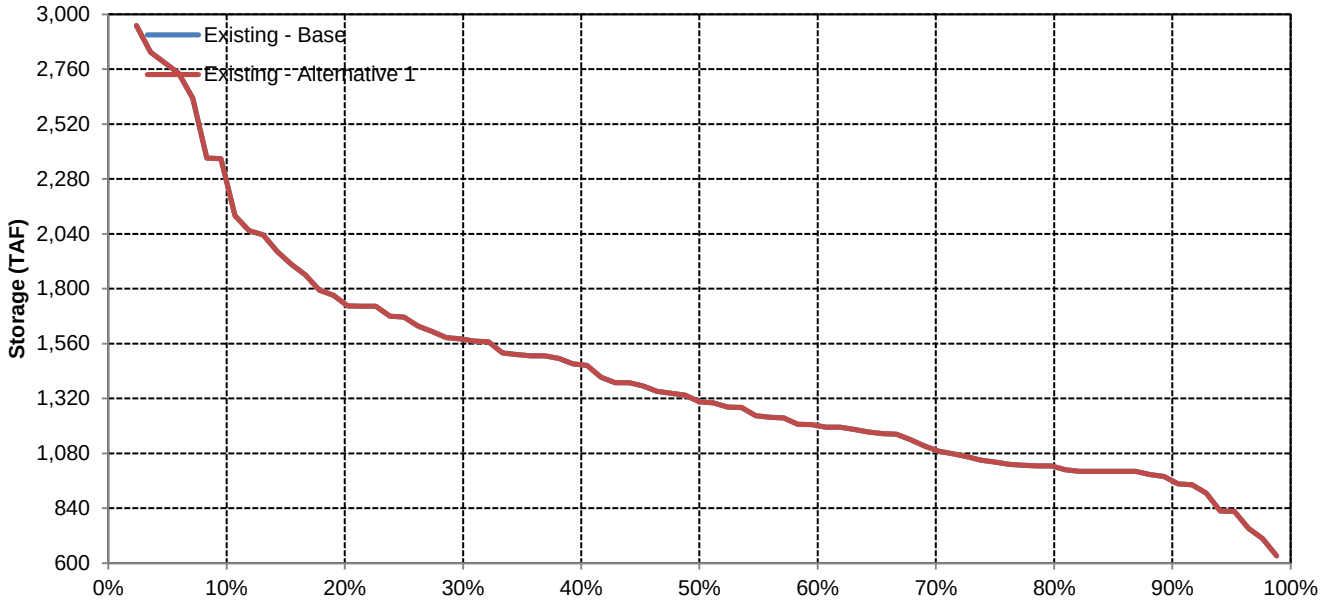
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Oroville Reservoir

October

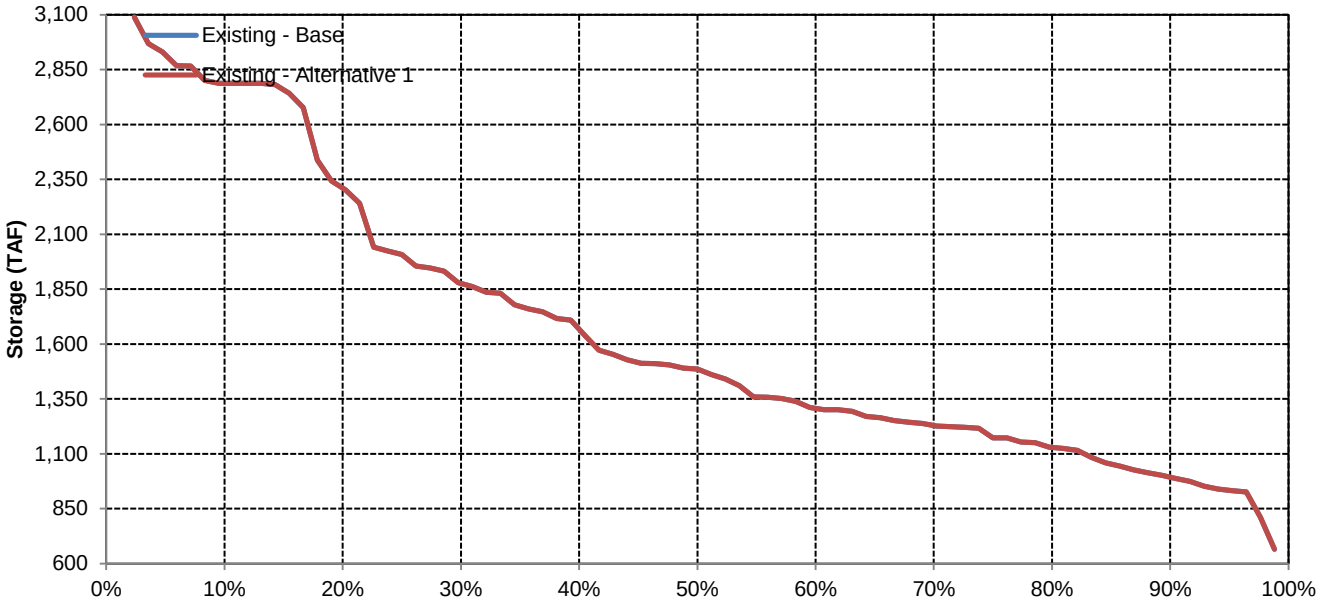


November

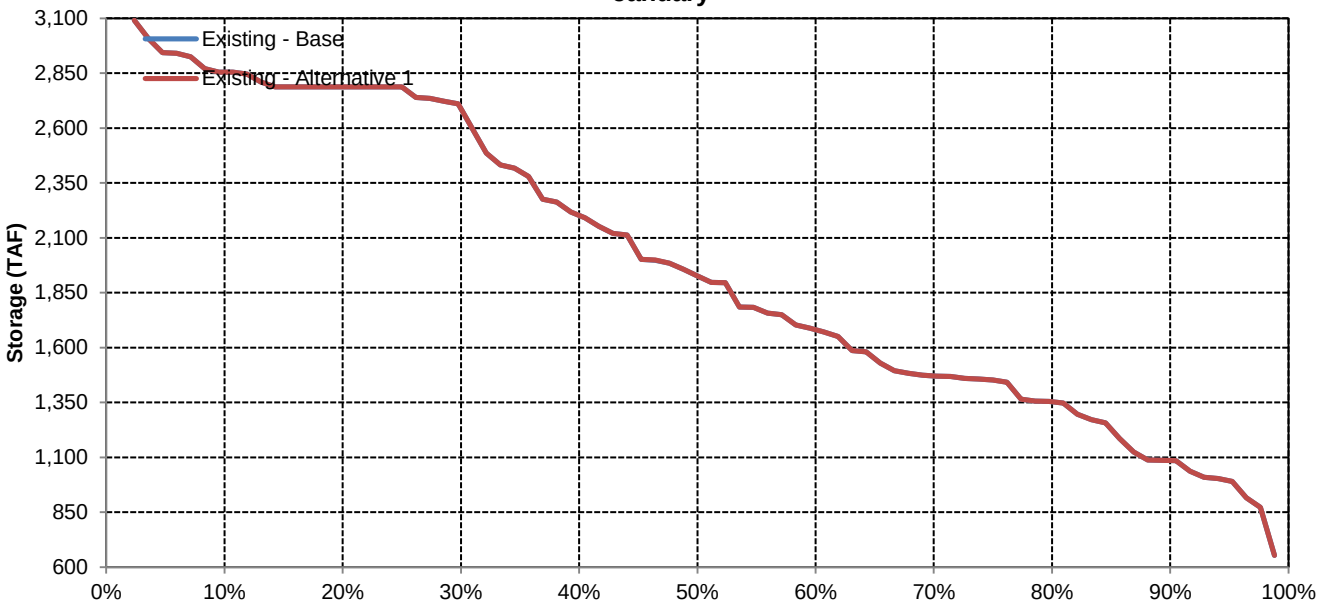


Oroville Reservoir

December

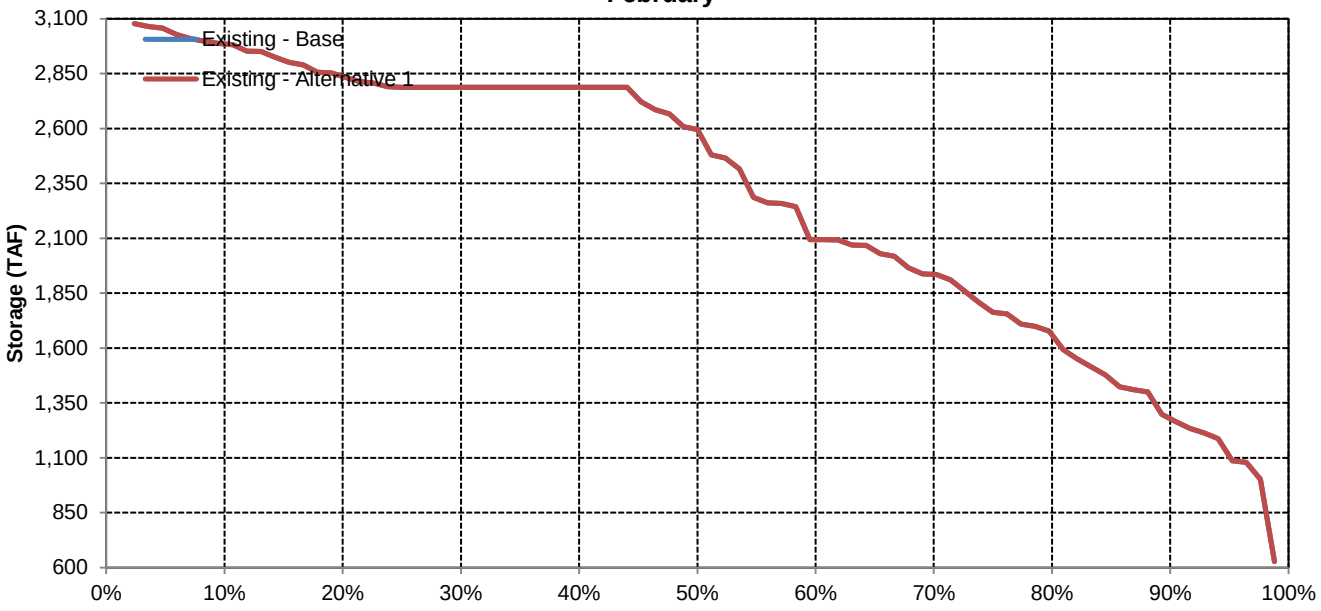


January

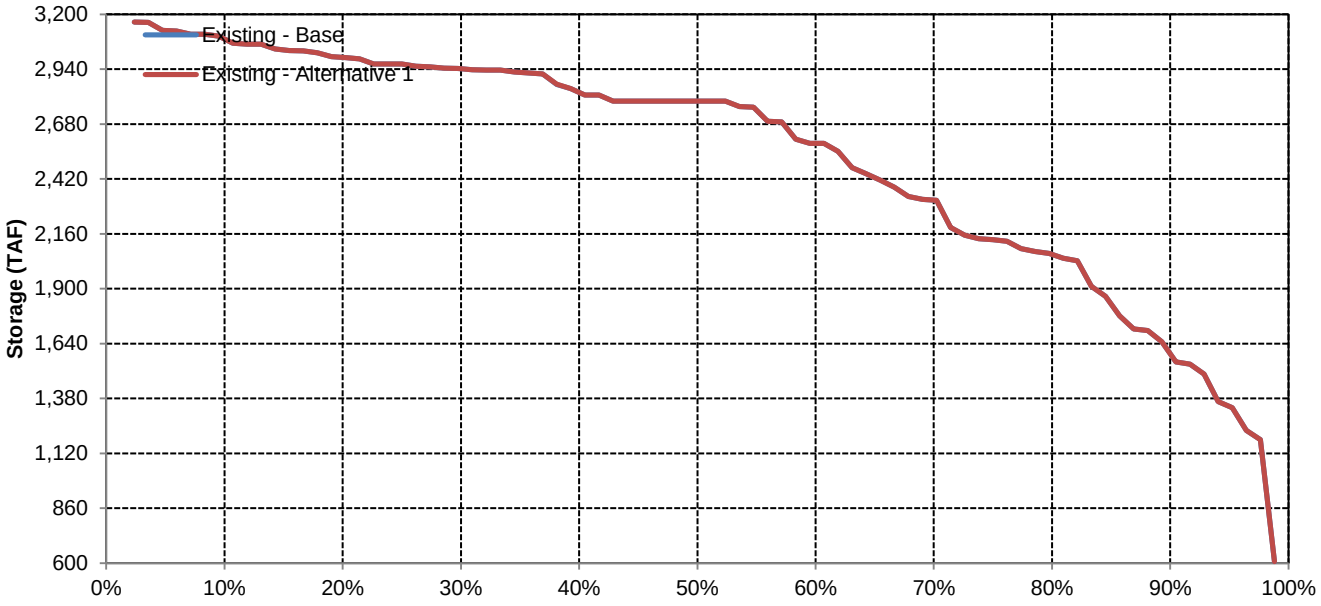


Oroville Reservoir

February

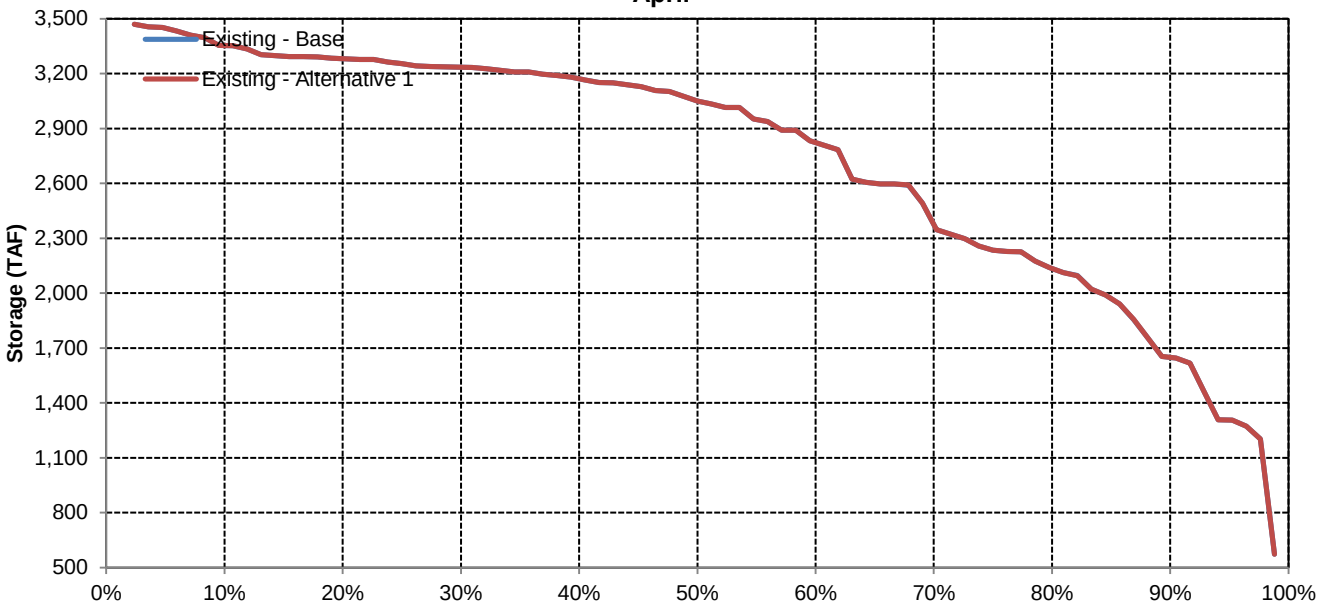


March

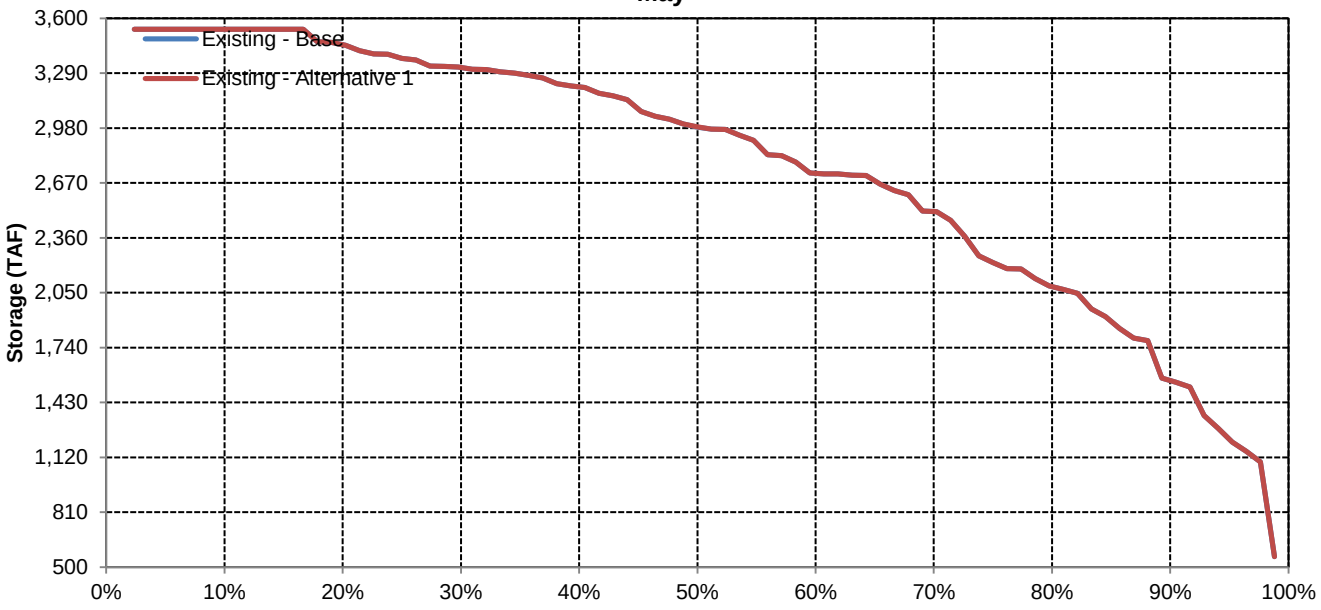


Oroville Reservoir

April

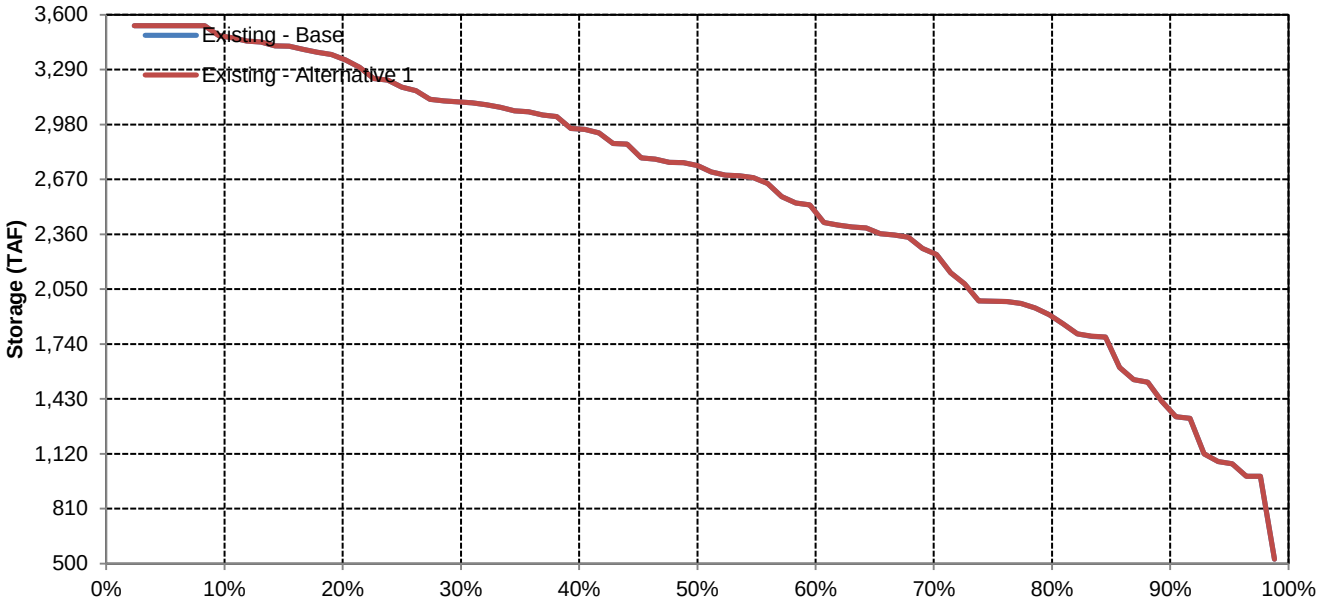


May

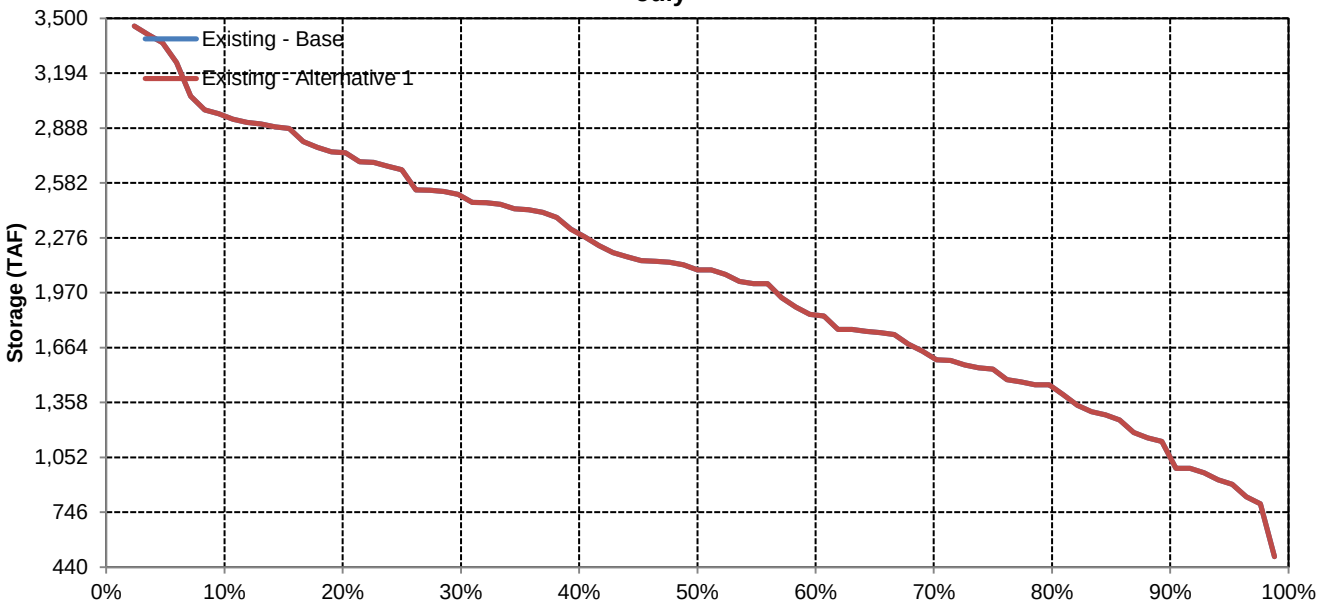


Oroville Reservoir

June

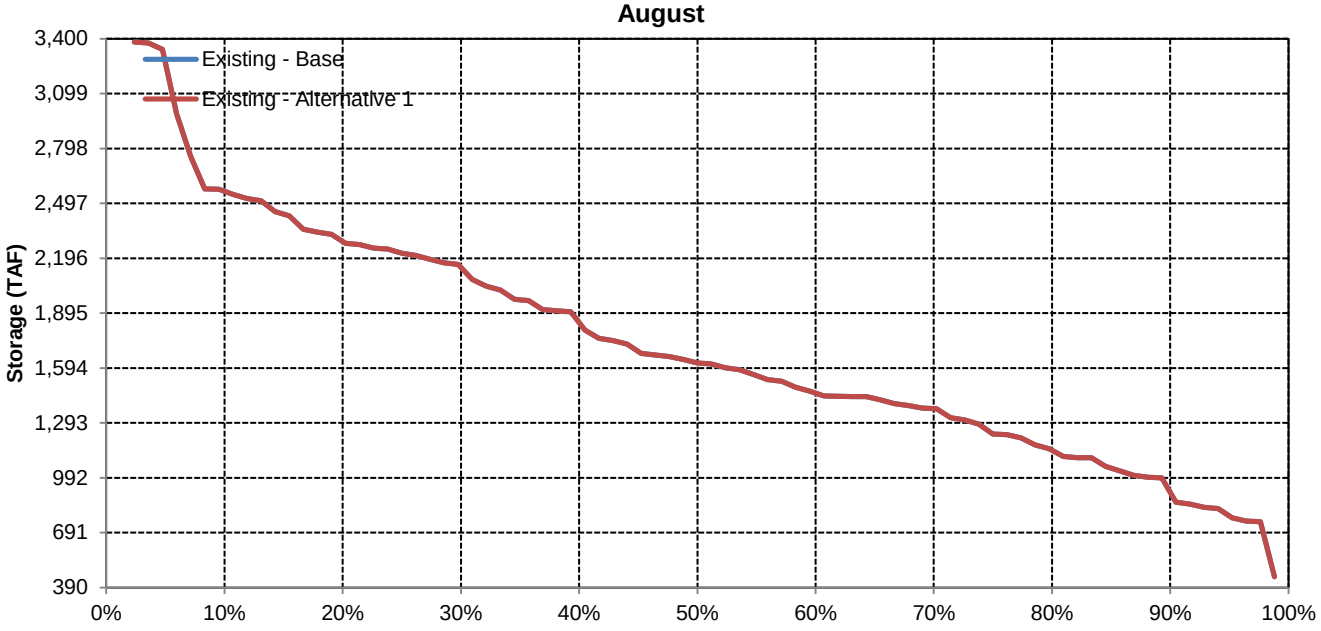


July

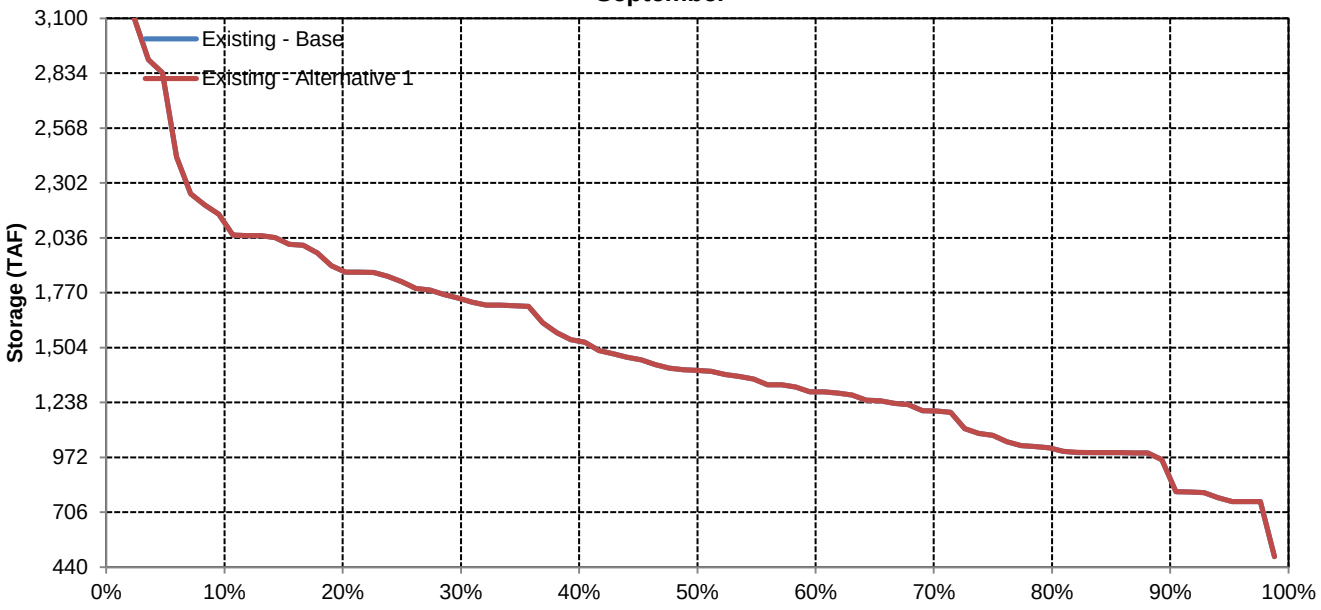


Oroville Reservoir

August



September



Long-Term and Water Year-Type Average of Folsom Reservoir Under Existing - Base and Existing - Alternative 1

Analysis Period	October	November	December	January	February	March	April	May	June	July	August	September
						Average Storage (TAF)						
						Long-Term						
Full Simulation Period												
Existing - Base	391	398	446	474	495	597	712	766	699	522	477	427
Existing - Alternative 1	391	398	446	474	495	597	712	766	699	522	477	427
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	405	431	511	520	508	626	766	897	851	676	622	507
Existing - Alternative 1	405	431	511	520	508	626	766	897	851	676	622	507
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	406	399	470	532	548	643	777	842	775	540	504	455
Existing - Alternative 1	406	399	470	532	548	643	777	842	775	540	504	455
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	397	414	447	500	536	627	774	792	716	480	445	433
Existing - Alternative 1	397	414	447	500	536	627	774	792	716	480	445	433
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	365	367	398	418	479	593	688	698	596	438	387	376
Existing - Alternative 1	365	367	398	418	479	593	688	698	596	438	387	376
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	372	347	345	357	380	453	480	471	418	351	313	291
Existing - Alternative 1	372	347	345	357	380	453	480	471	418	351	313	291
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Folsom Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 1

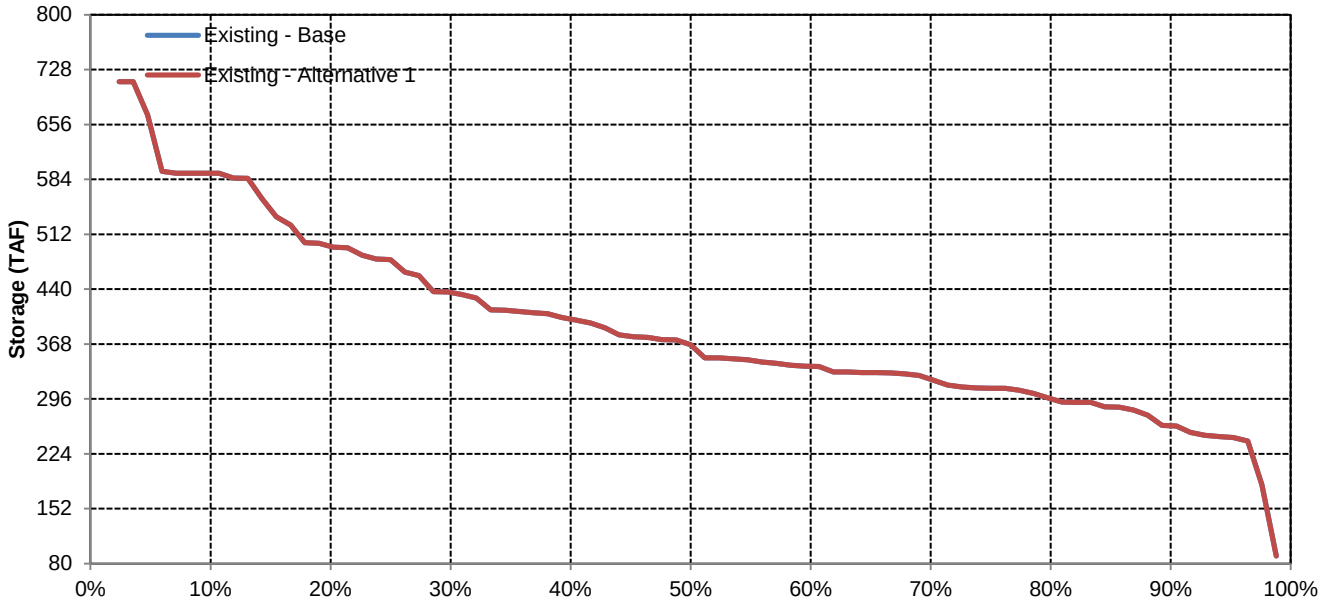
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 1 Minus Existing - Base

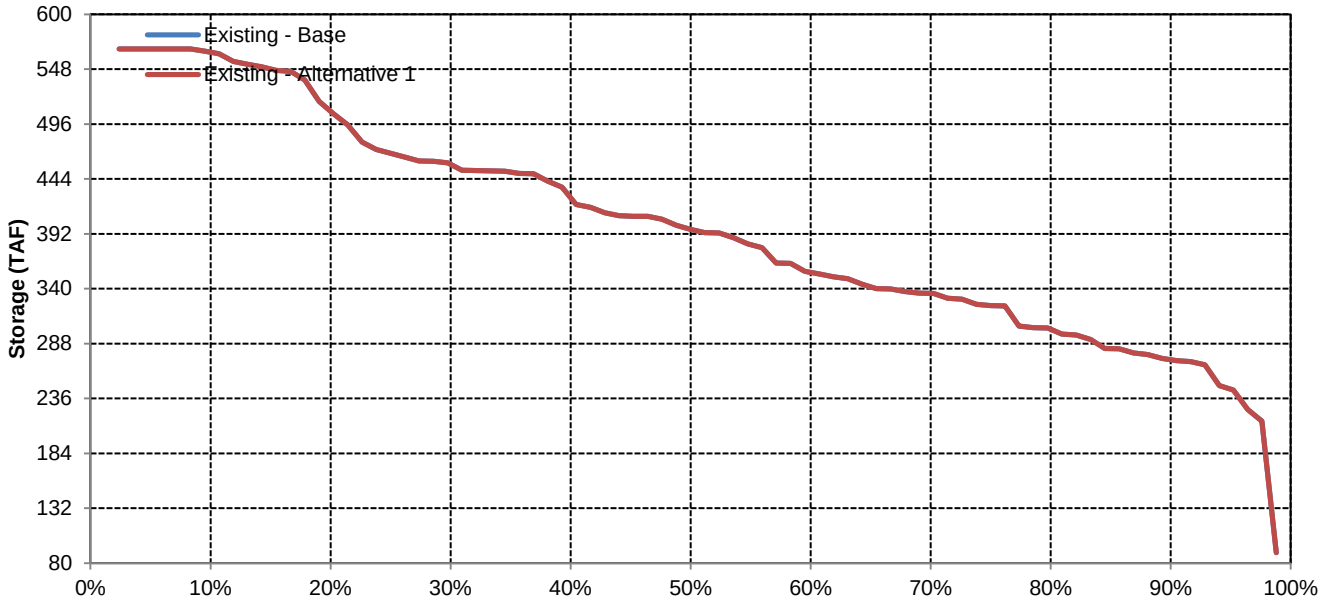
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Folsom Reservoir

October

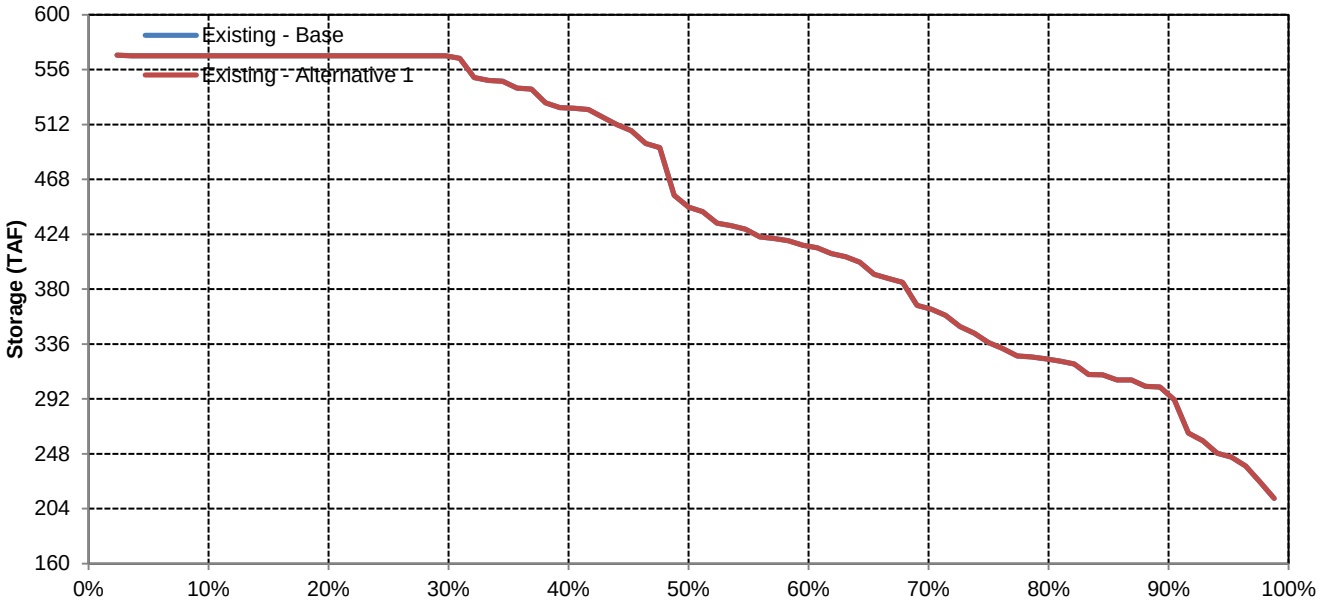


November

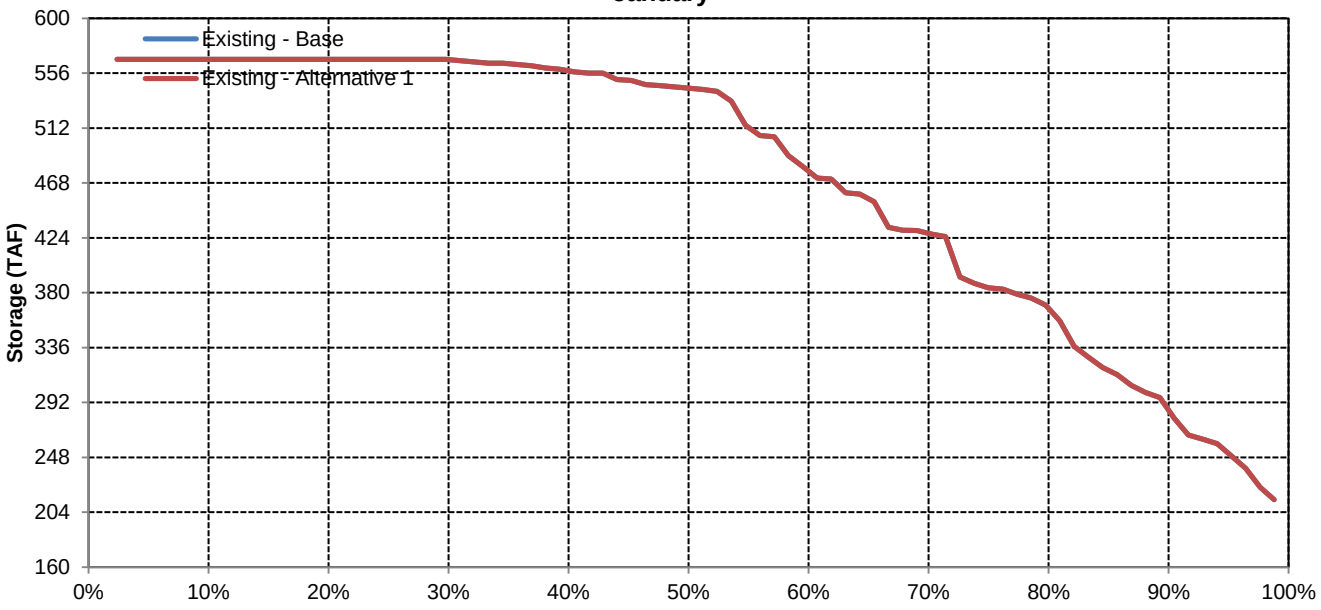


Folsom Reservoir

December

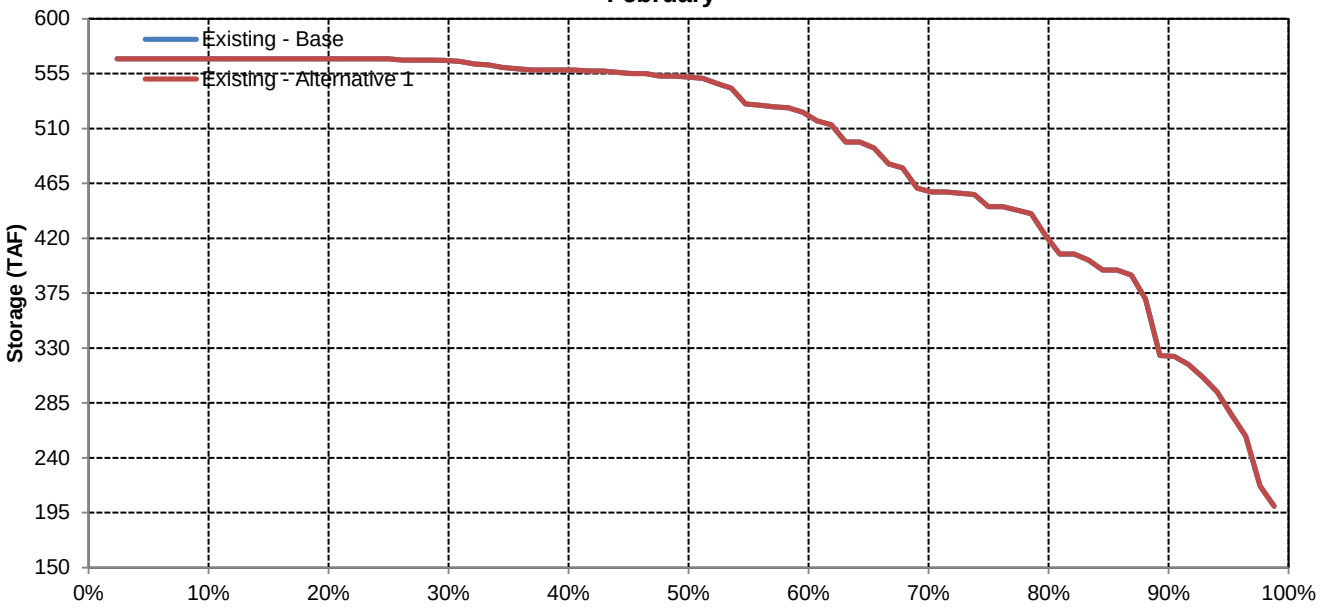


January

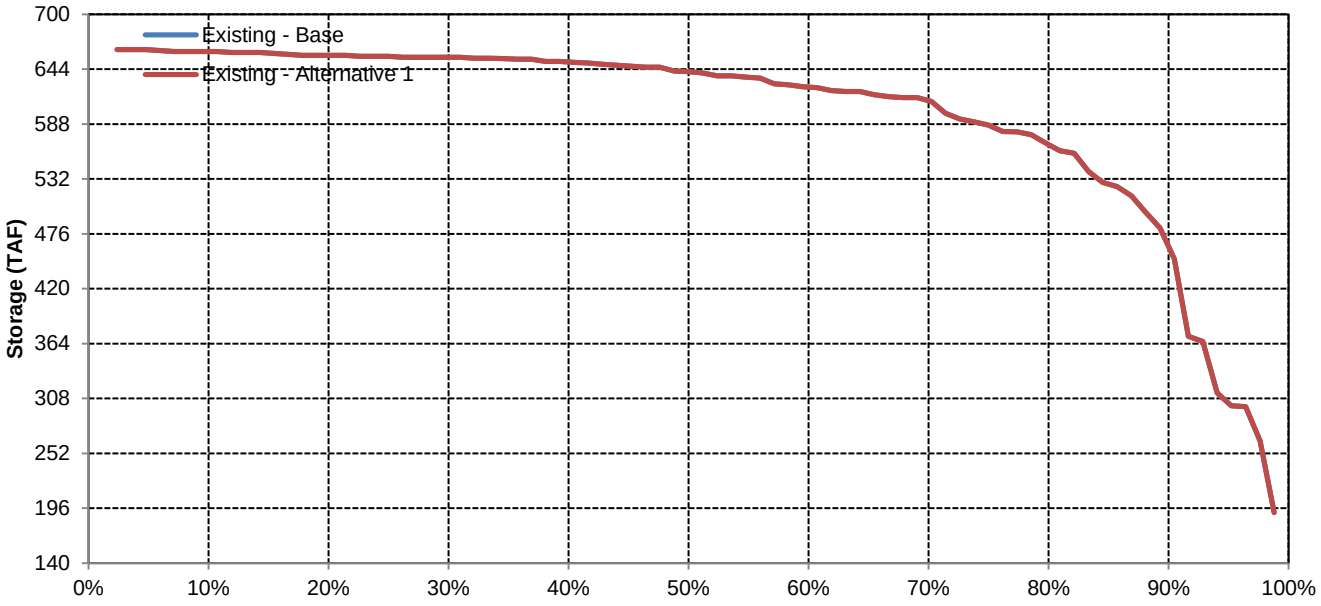


Folsom Reservoir

February

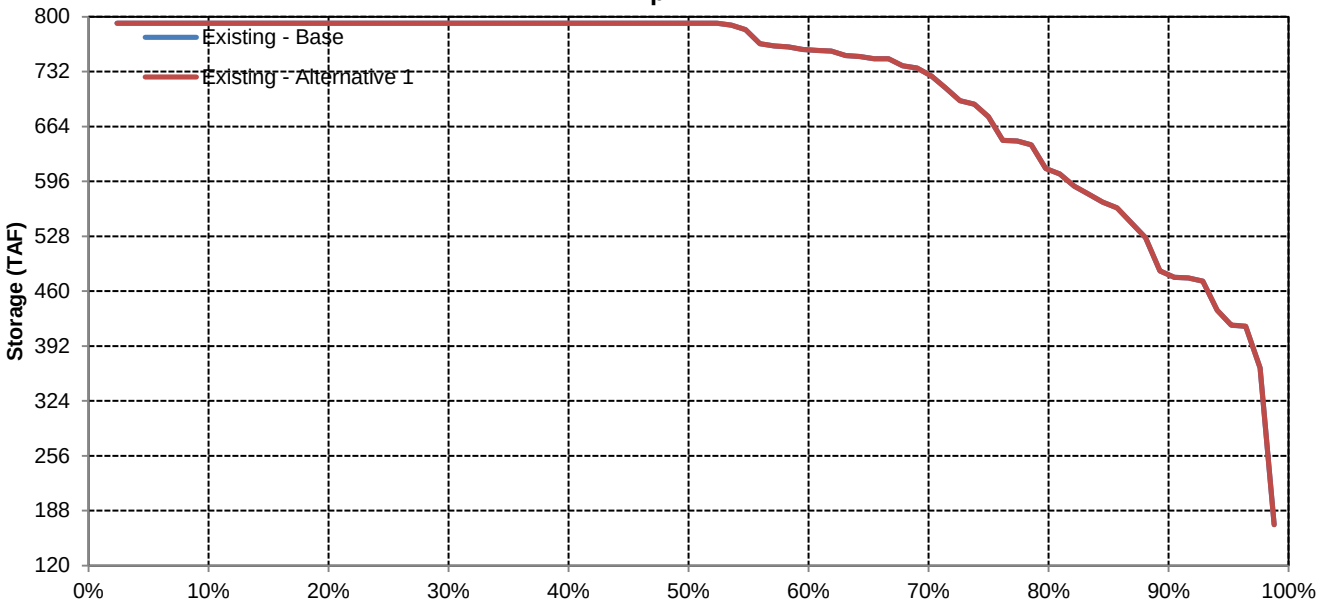


March

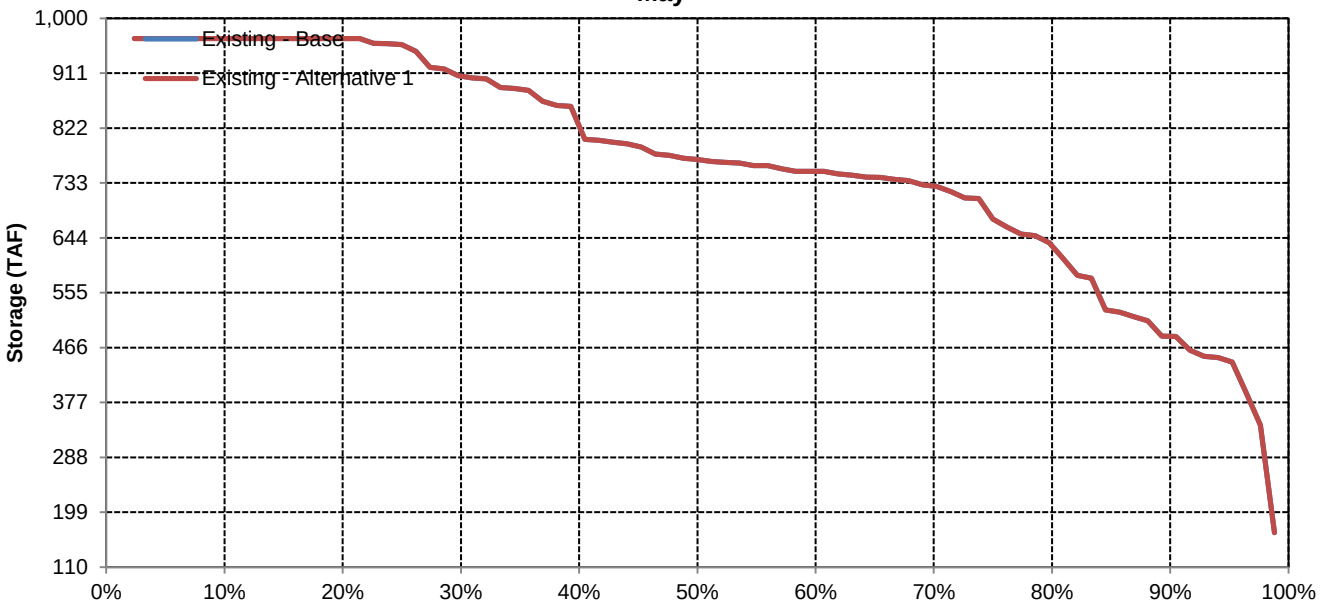


Folsom Reservoir

April

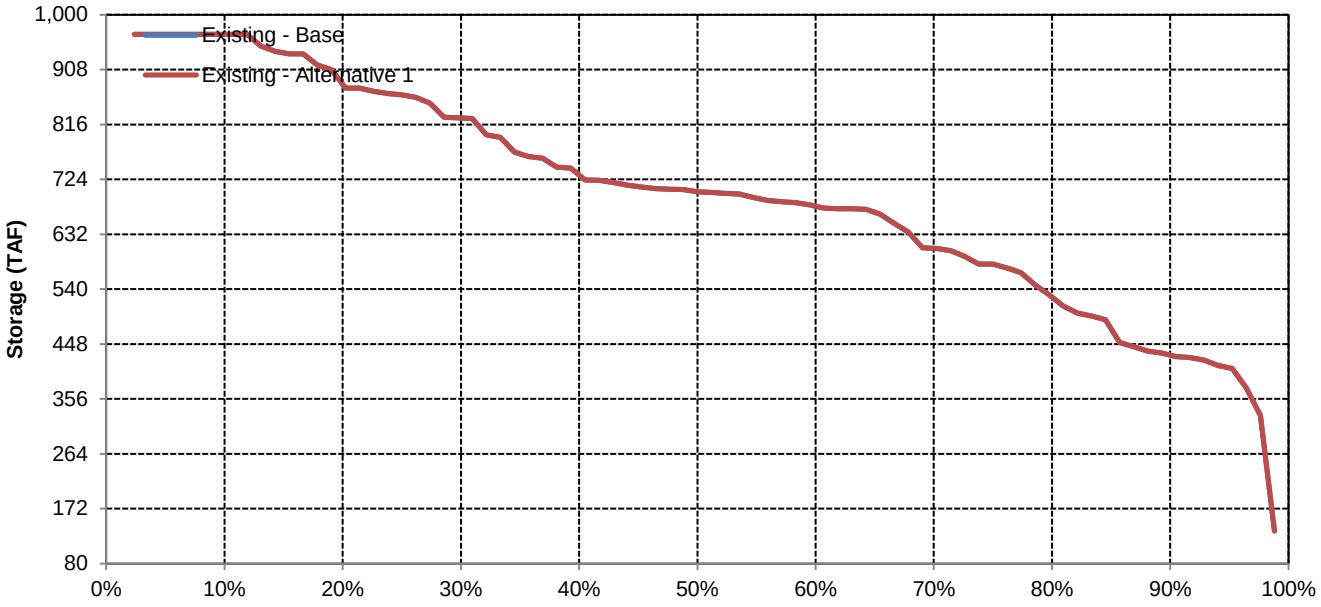


May

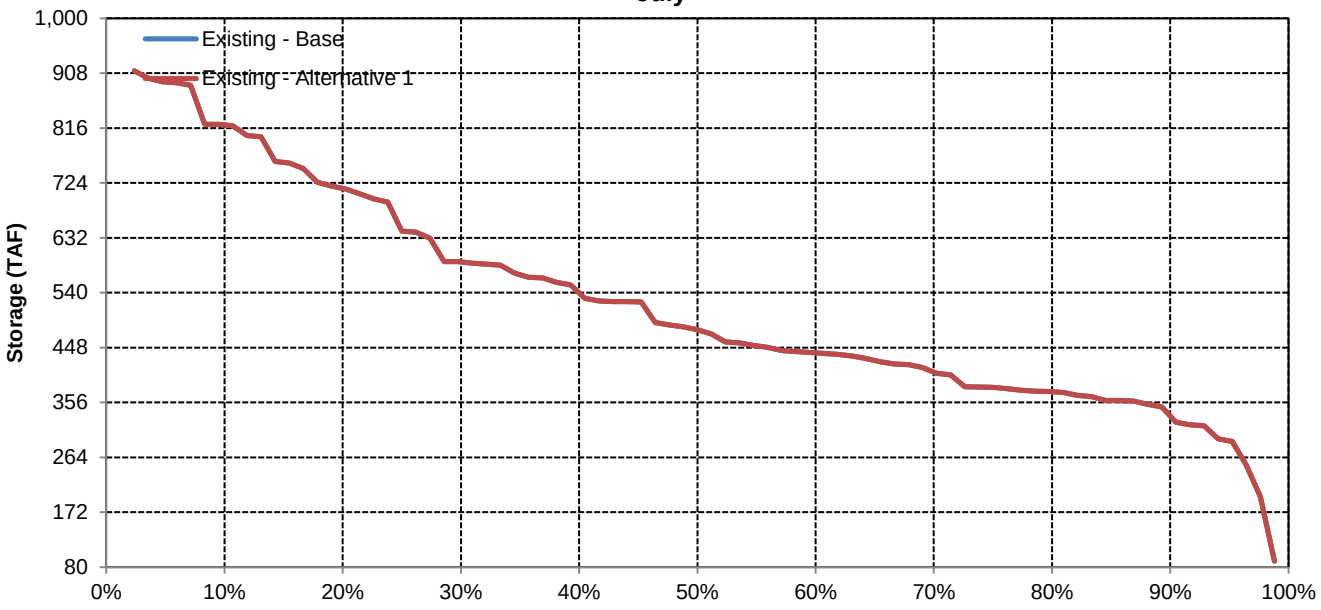


Folsom Reservoir

June

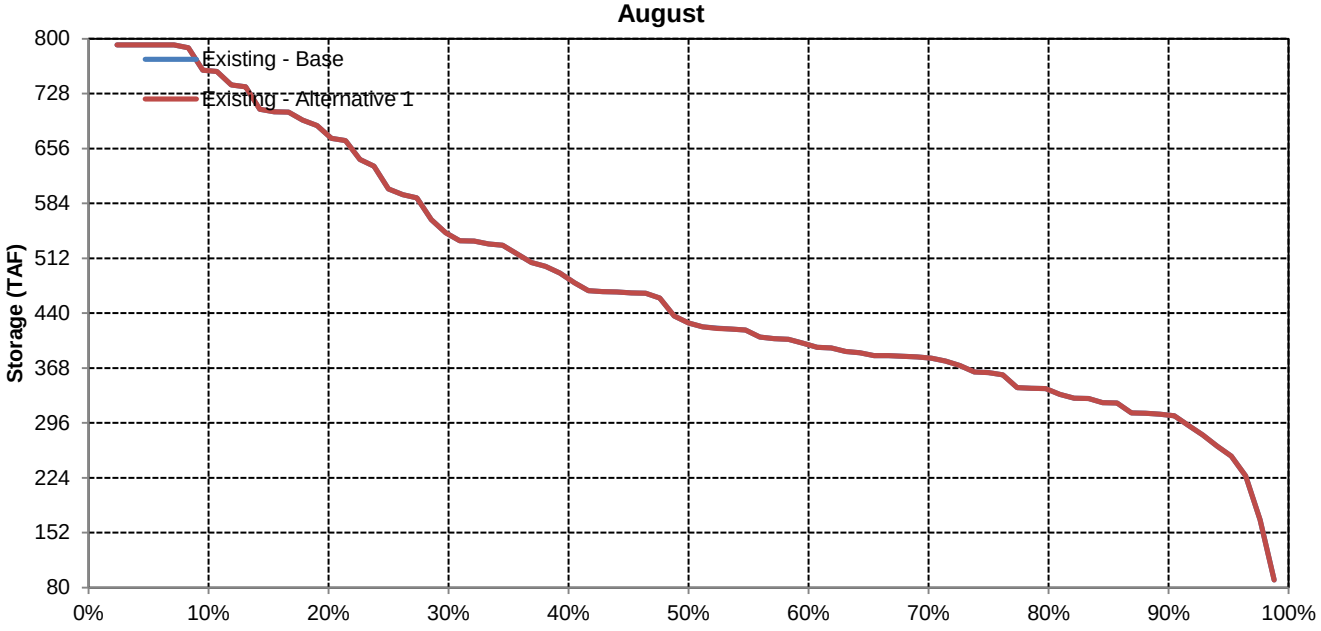


July

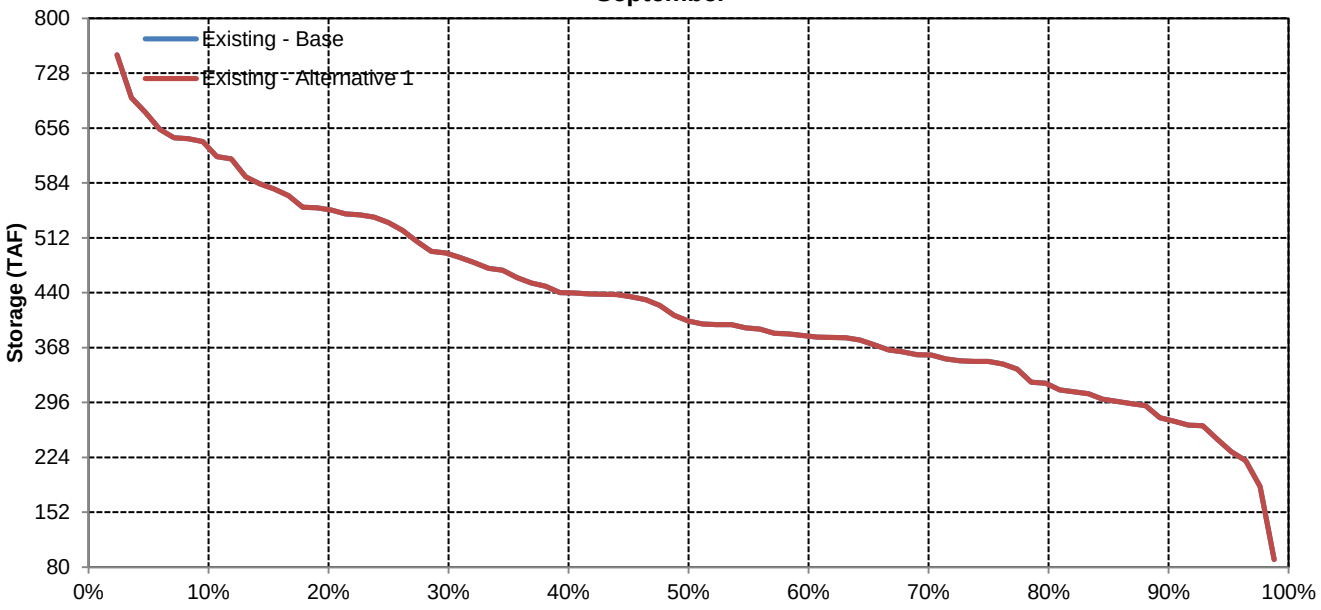


Folsom Reservoir

August



September



Long-Term and Water Year-Type Average of CVP San Luis Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	217	330	493	616	709	777	712	577	404	261	171	178
Existing - Alternative 1	217	330	493	616	709	777	712	577	404	261	171	178
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	230	346	525	677	824	925	859	729	581	362	252	241
Existing - Alternative 1	230	346	525	677	824	925	859	729	581	362	252	241
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	231	375	535	653	766	876	790	630	437	201	133	128
Existing - Alternative 1	231	375	535	653	766	876	790	630	437	201	133	128
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	227	343	526	627	701	758	697	561	373	276	187	214
Existing - Alternative 1	227	343	526	627	701	758	697	561	373	276	187	214
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	183	268	424	532	582	636	573	429	249	184	96	121
Existing - Alternative 1	183	268	424	532	582	636	573	429	249	184	96	121
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	208	316	428	546	591	584	532	427	251	194	118	124
Existing - Alternative 1	208	316	428	546	591	584	532	427	251	194	118	124
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CVP San Luis Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	717	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	392	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 1

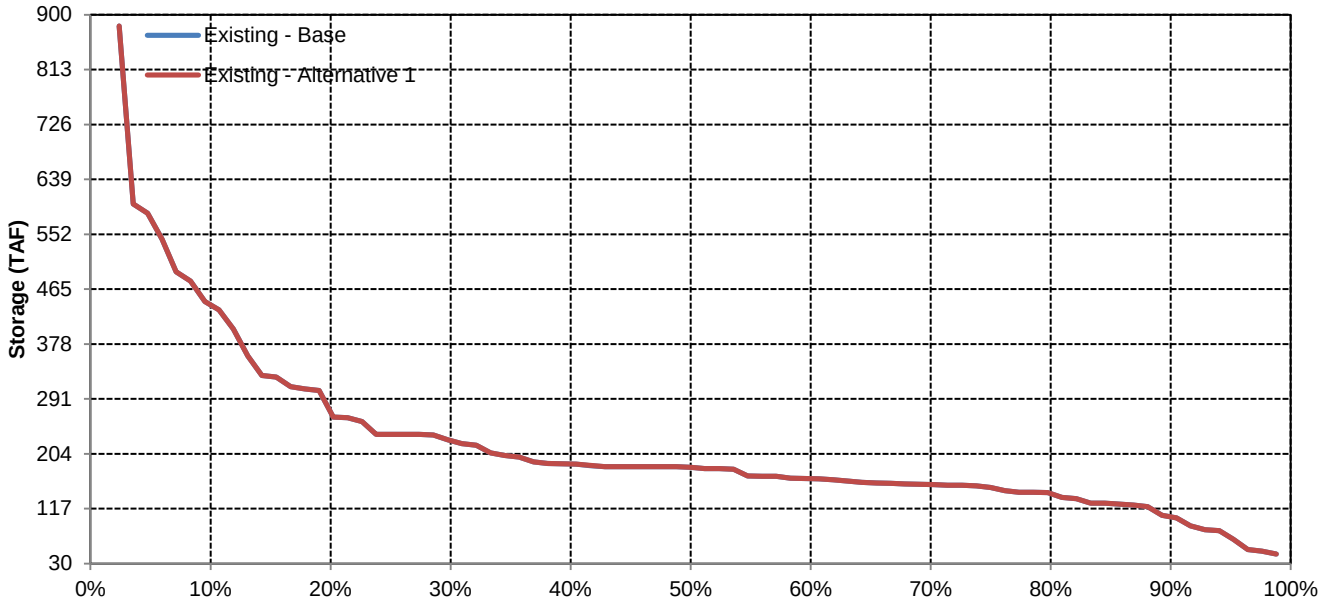
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	718	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	391	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 1 Minus Existing - Base

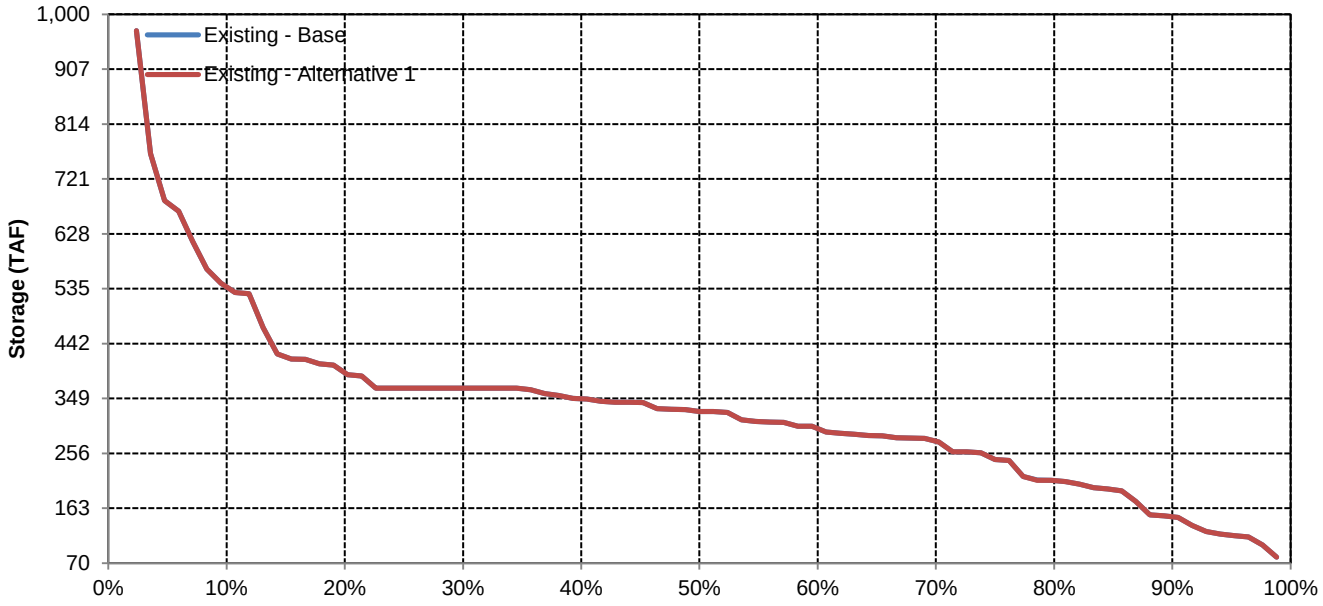
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

CVP San Luis Reservoir

October

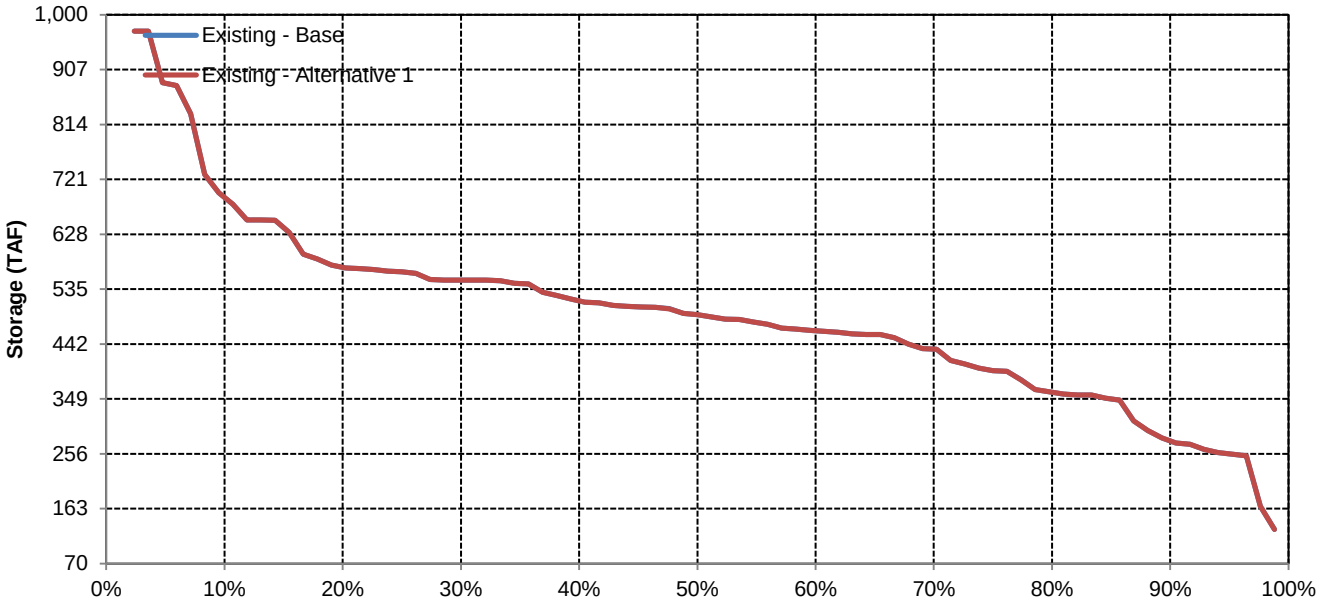


November

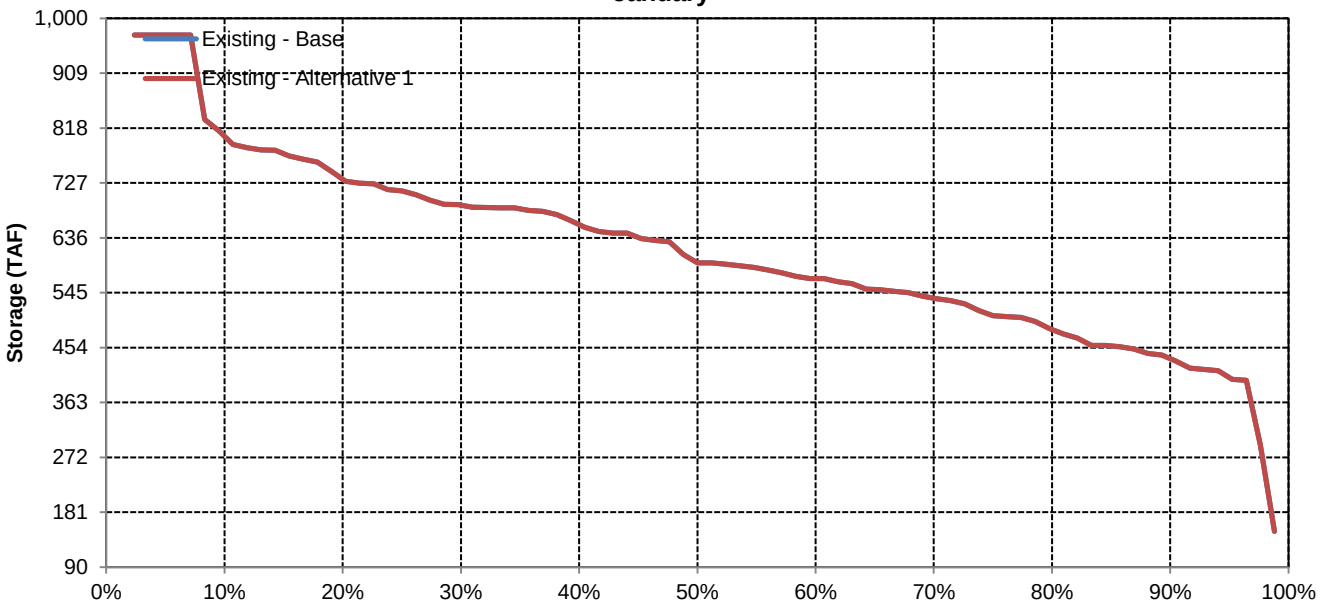


CVP San Luis Reservoir

December

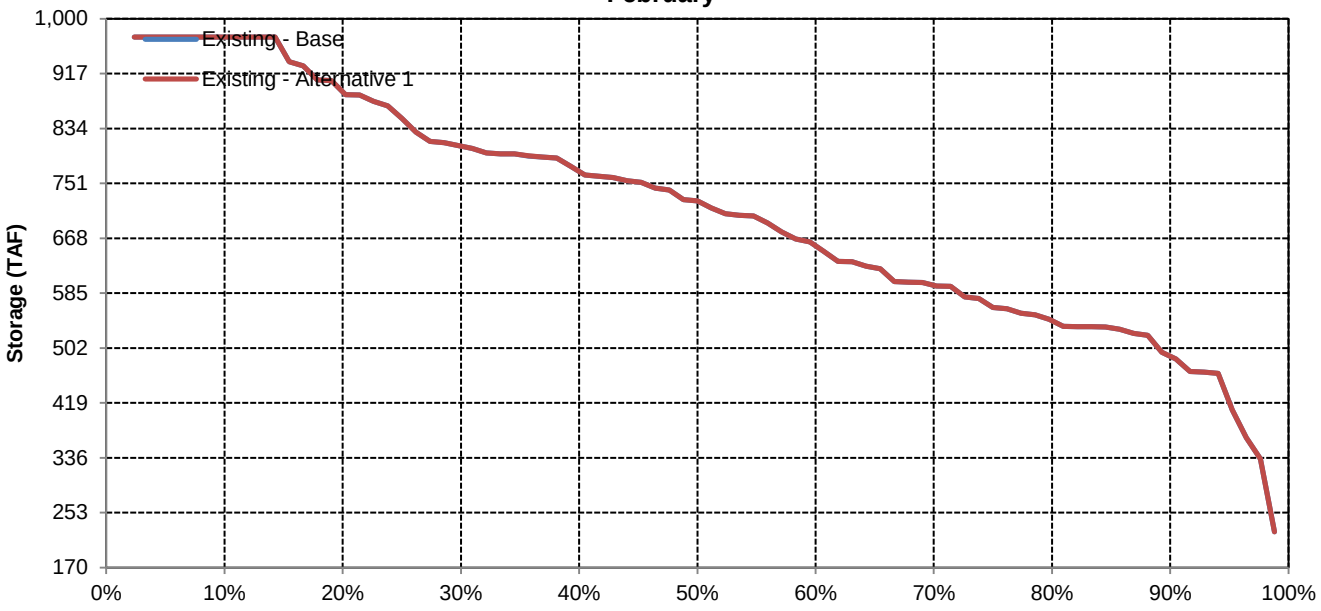


January

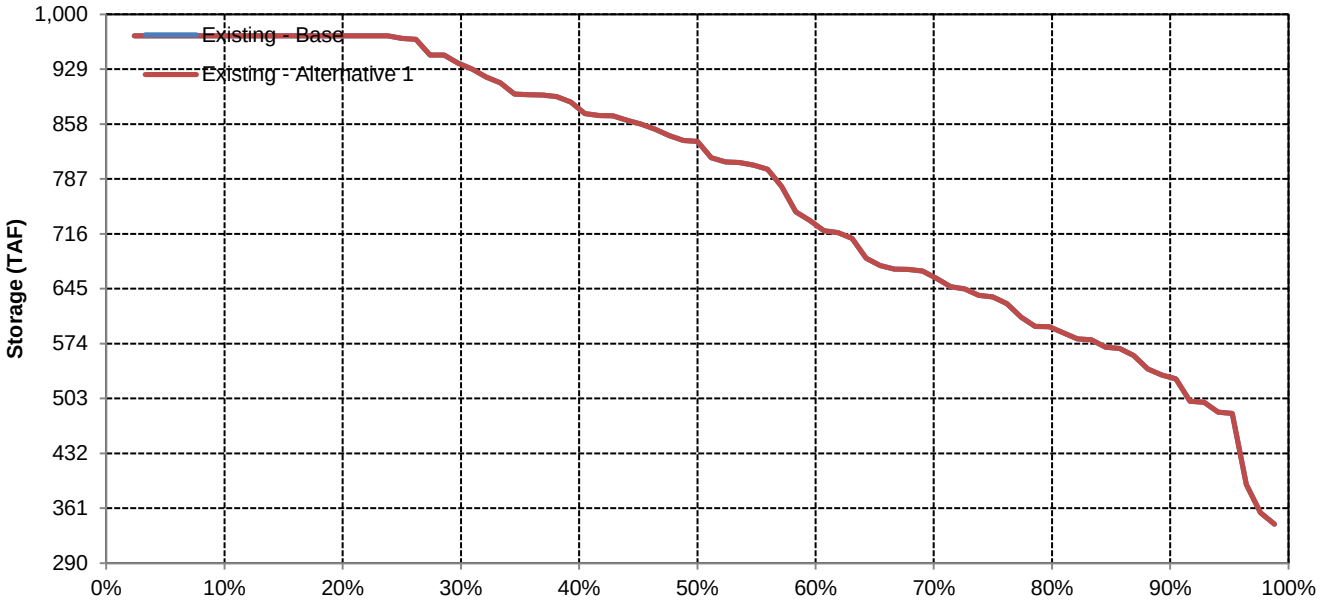


CVP San Luis Reservoir

February

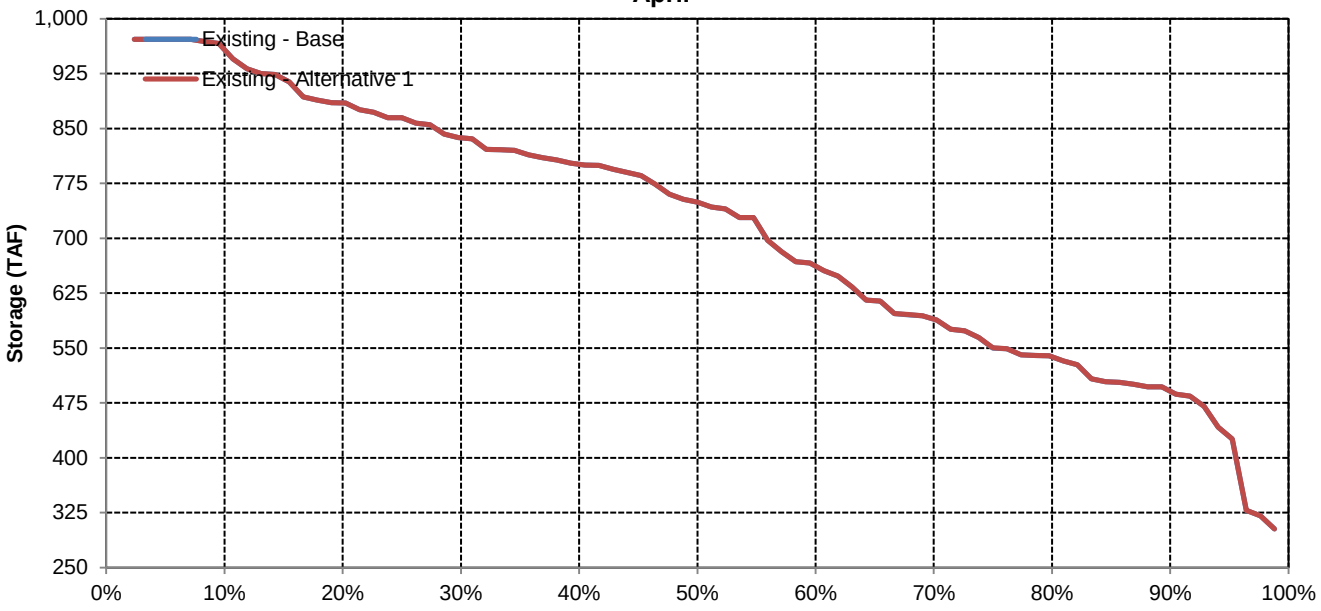


March

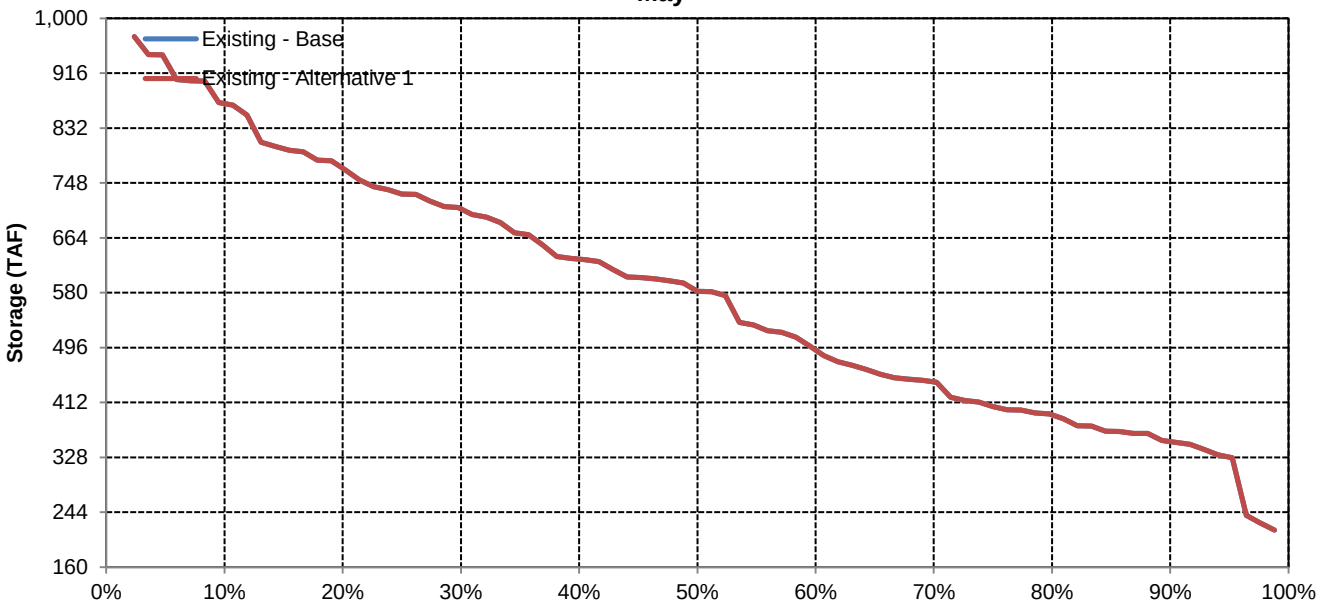


CVP San Luis Reservoir

April

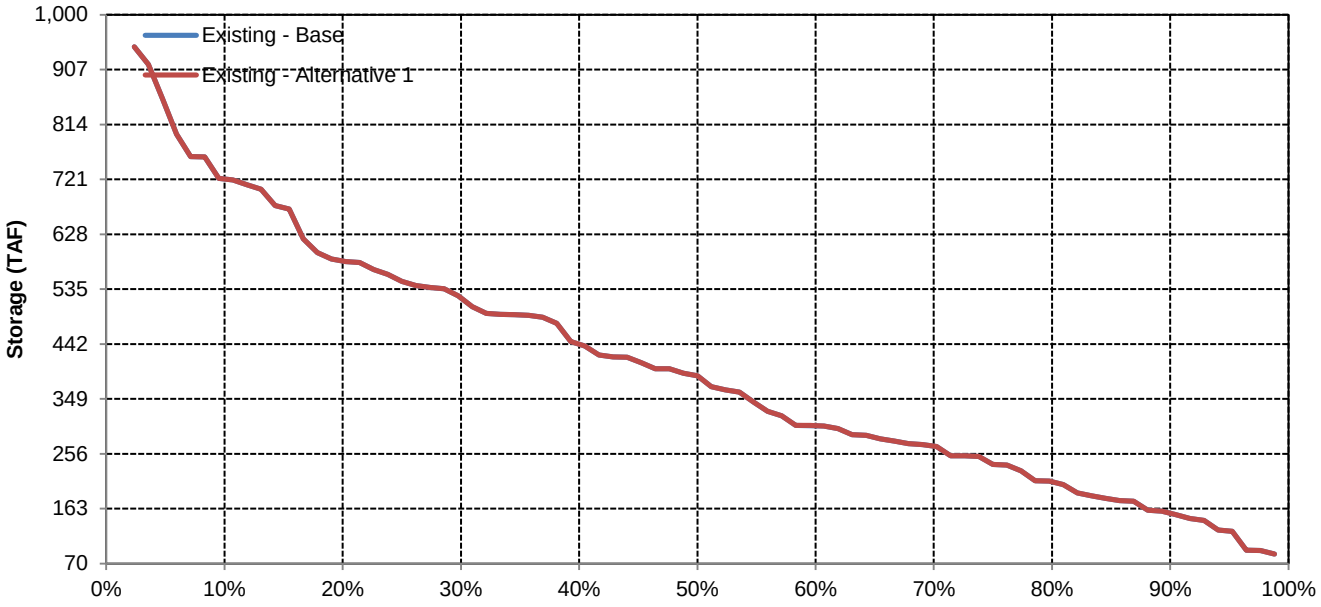


May

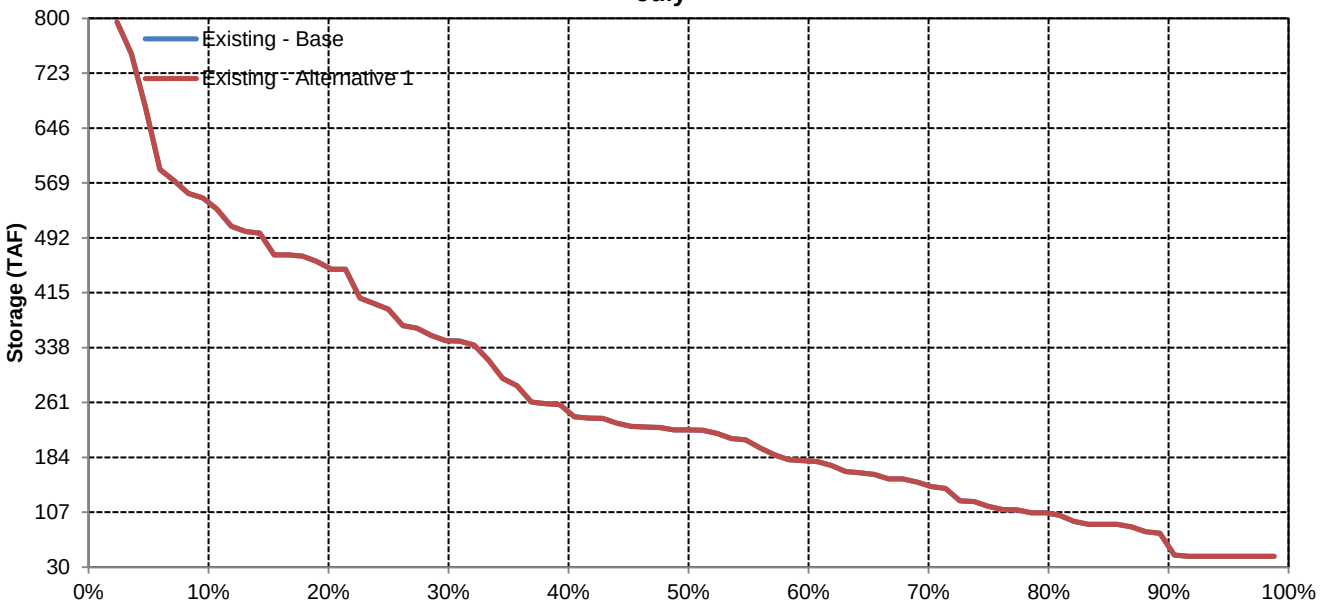


CVP San Luis Reservoir

June

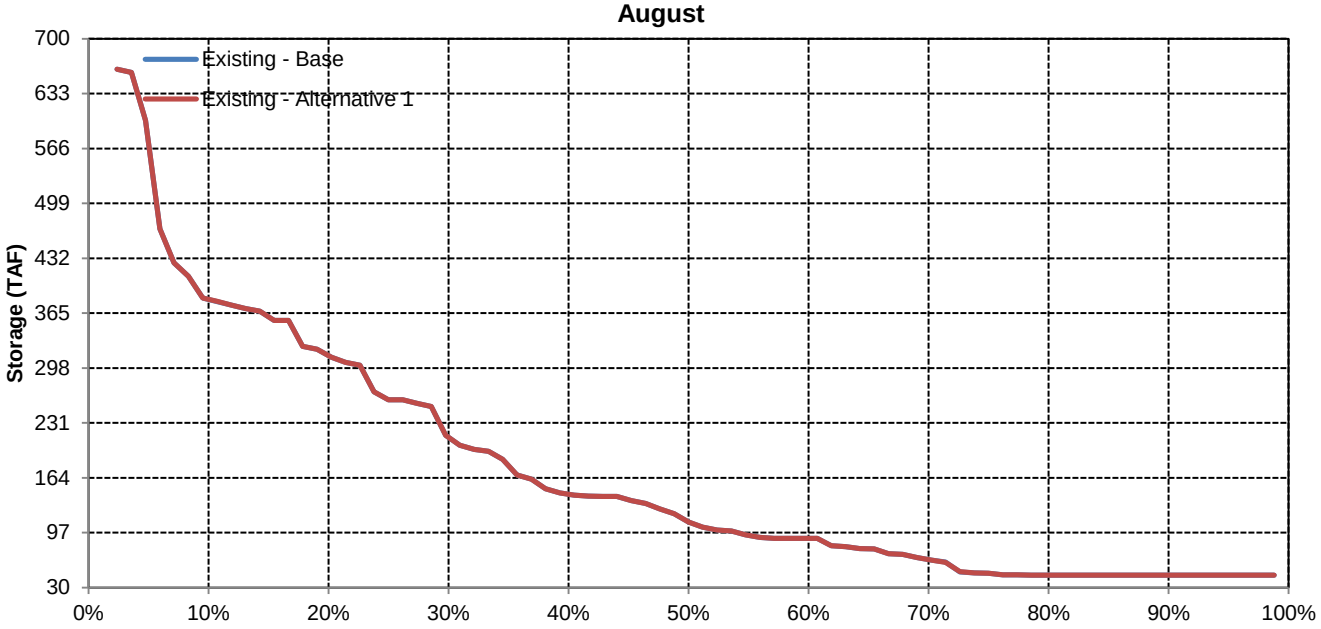


July

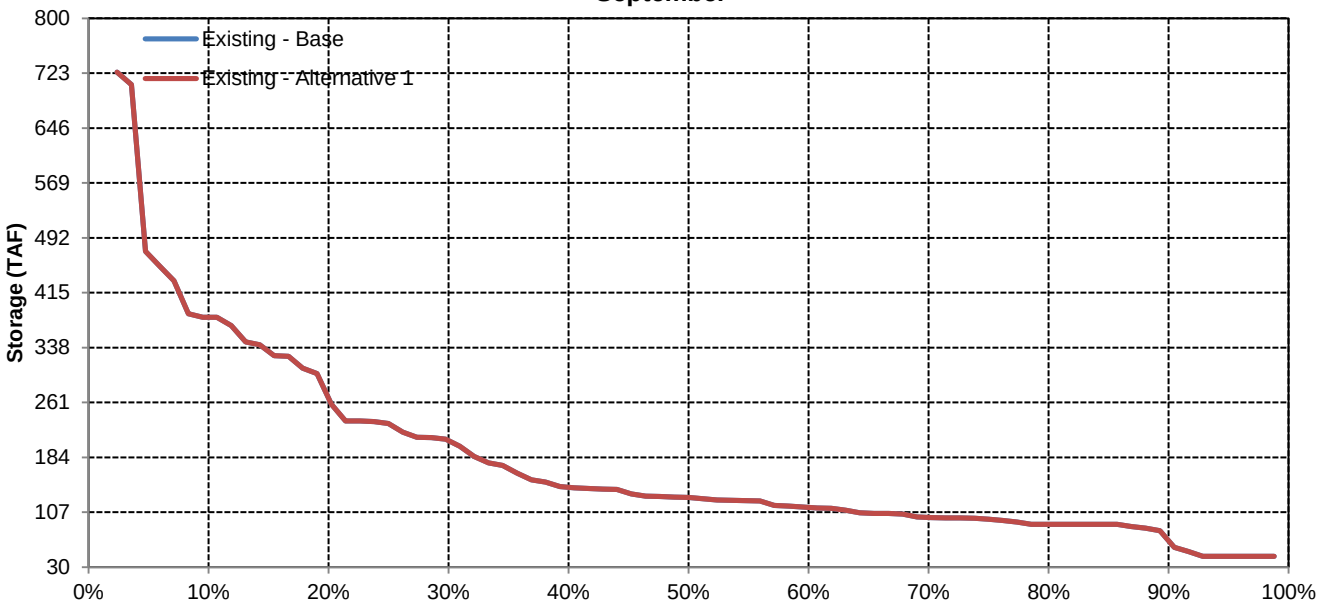


CVP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of SWP San Luis Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	244	268	372	541	678	802	720	562	380	374	324	288
Existing - Alternative 1	244	268	372	541	678	802	720	562	380	374	324	288
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	272	333	431	651	850	980	865	667	471	448	428	363
Existing - Alternative 1	272	333	431	651	850	980	865	667	471	448	428	363
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	259	253	386	576	716	886	757	532	307	308	323	276
Existing - Alternative 1	259	253	386	576	716	886	757	532	307	308	323	276
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	220	246	386	500	622	751	675	512	329	374	370	342
Existing - Alternative 1	220	246	386	500	622	751	675	512	329	374	370	342
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	209	219	300	450	552	670	620	509	348	358	229	234
Existing - Alternative 1	209	219	300	450	552	670	620	509	348	358	229	234
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	249	245	312	459	533	591	579	511	376	305	168	137
Existing - Alternative 1	249	245	312	459	533	591	579	511	376	305	168	137
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	739	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 1

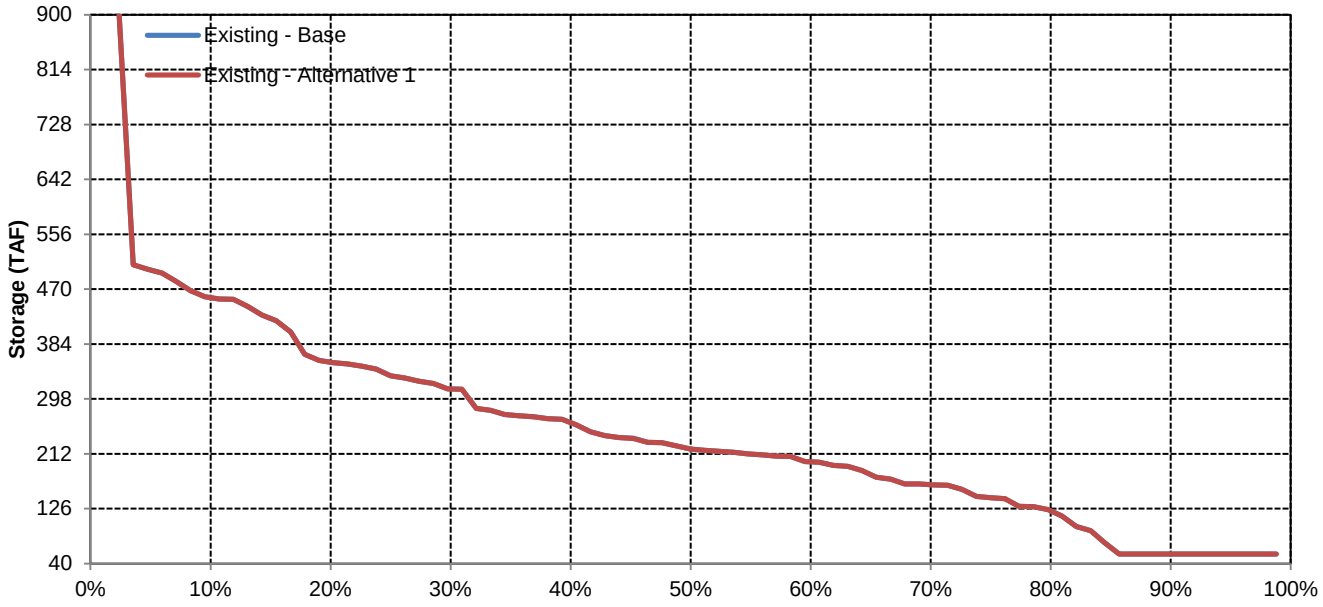
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	738	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 1 Minus Existing - Base

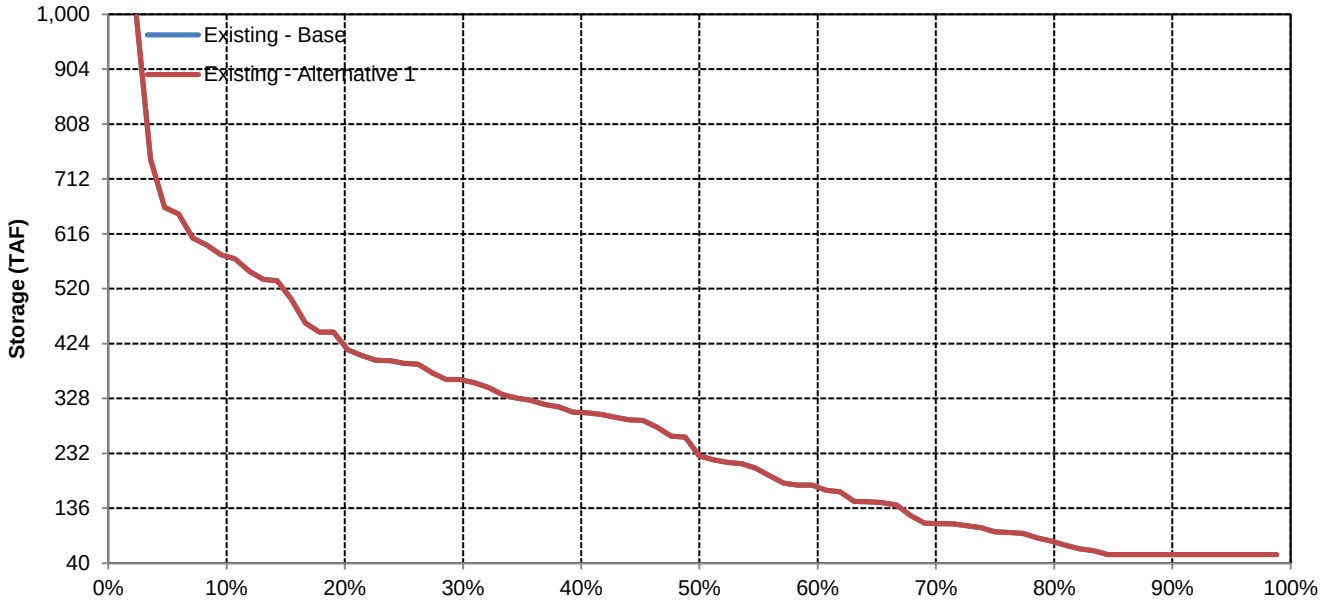
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

SWP San Luis Reservoir

October

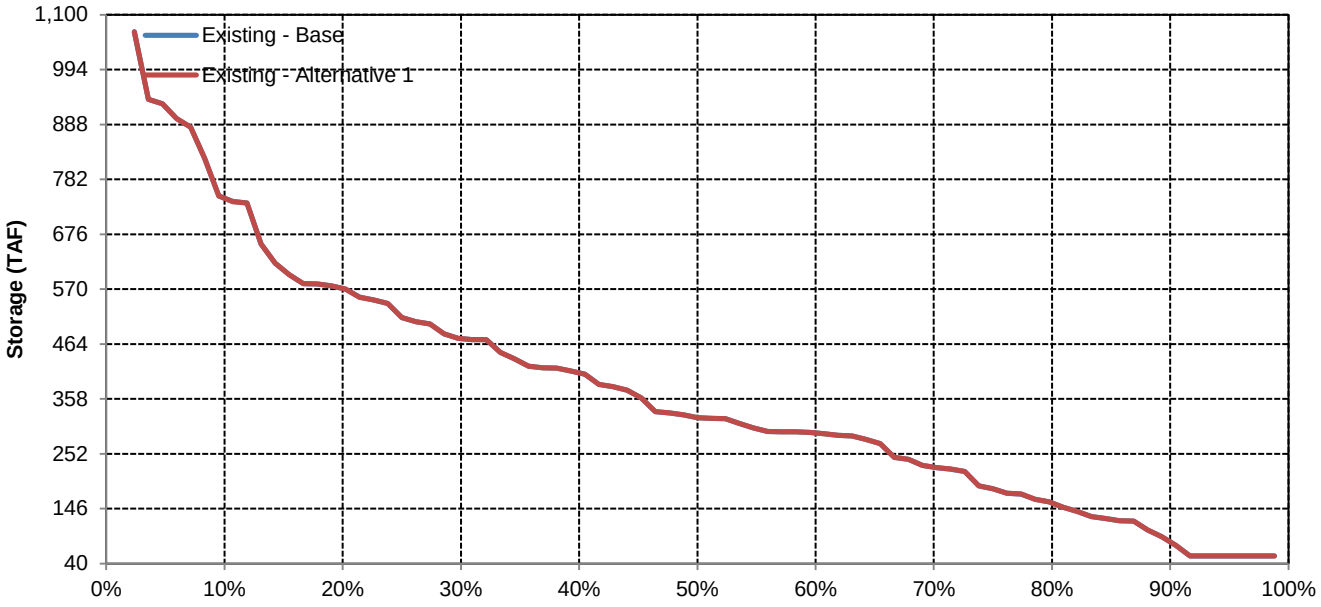


November

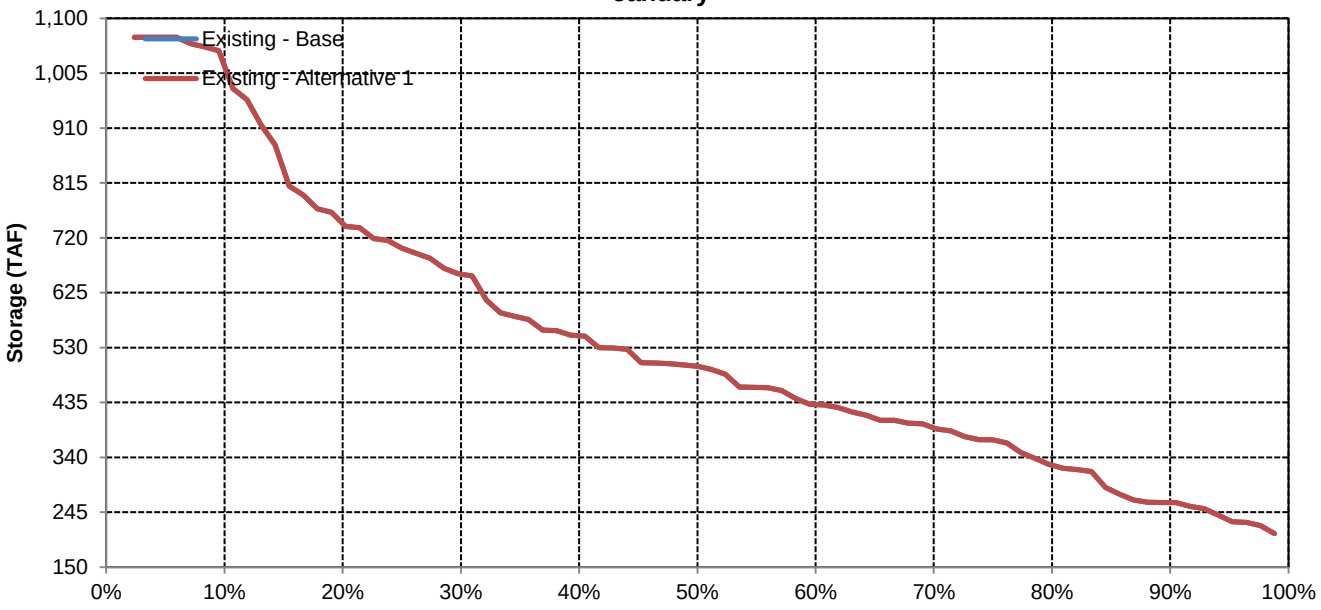


SWP San Luis Reservoir

December

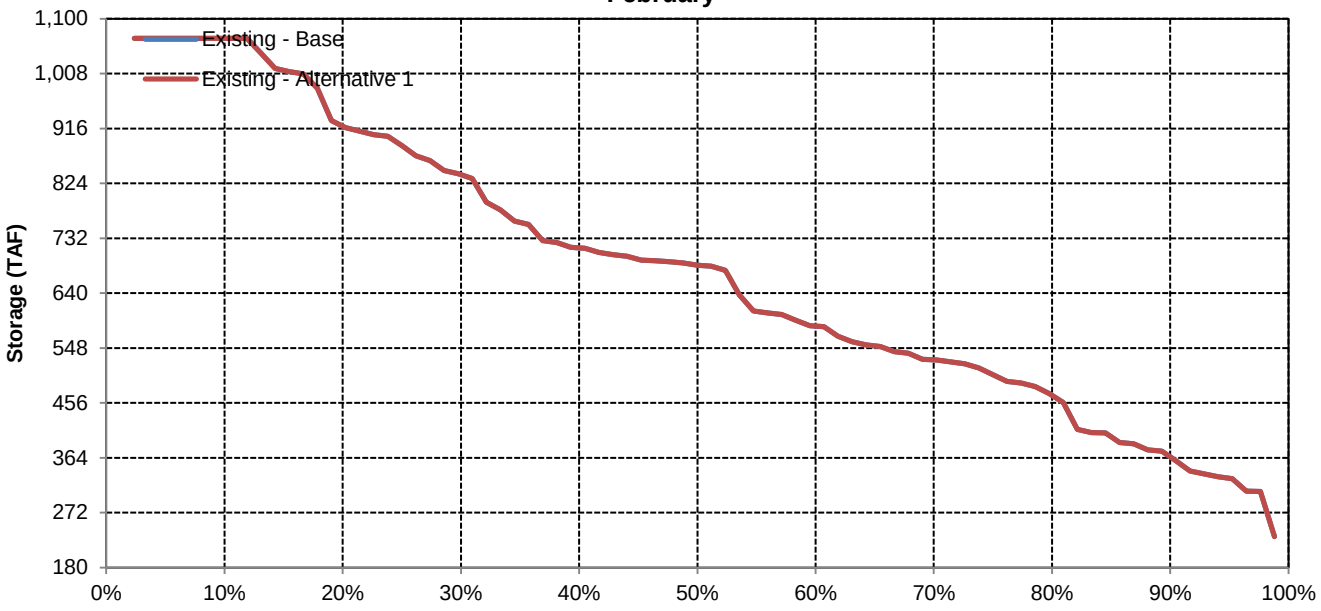


January

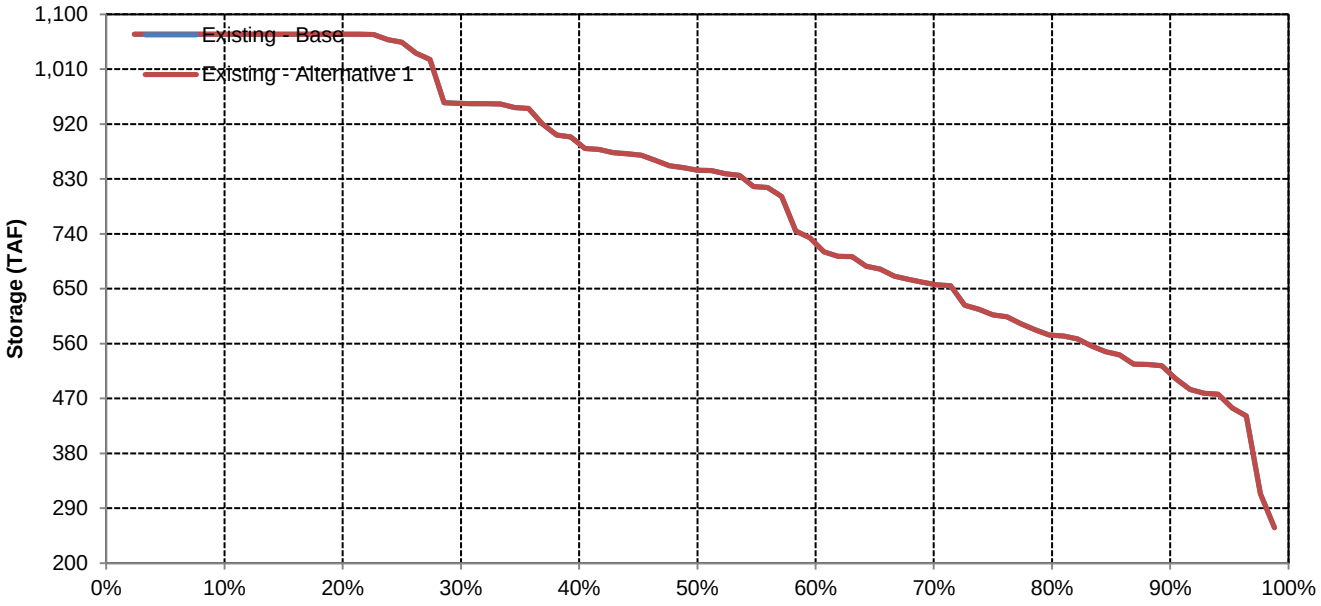


SWP San Luis Reservoir

February

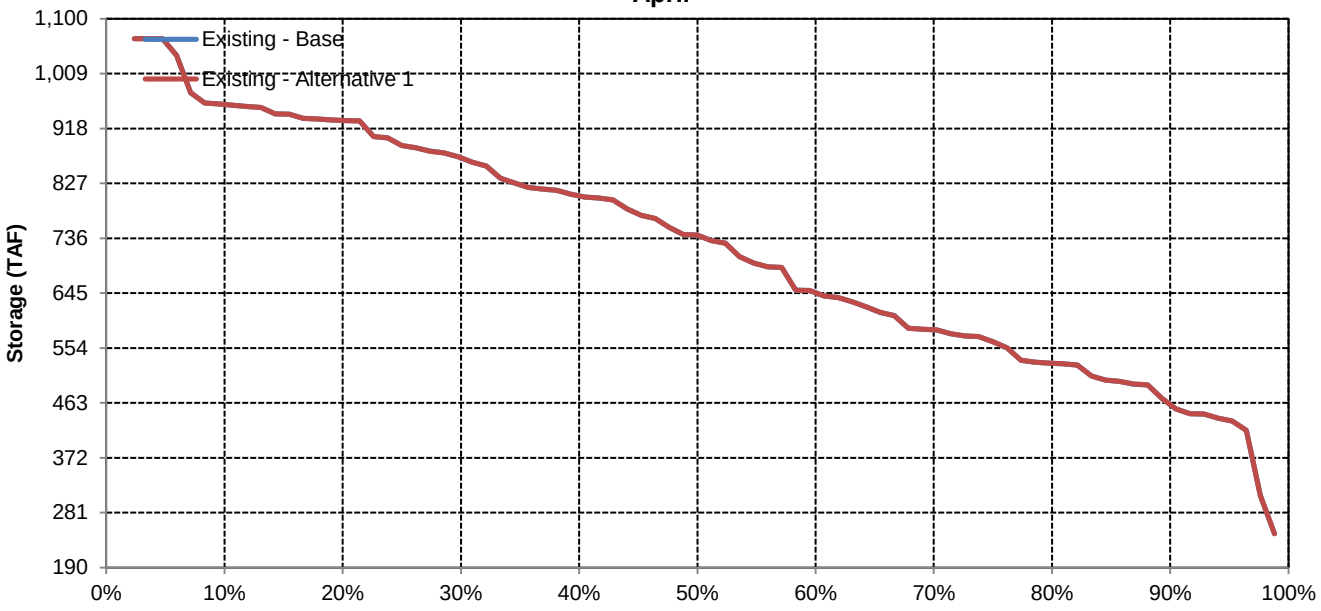


March

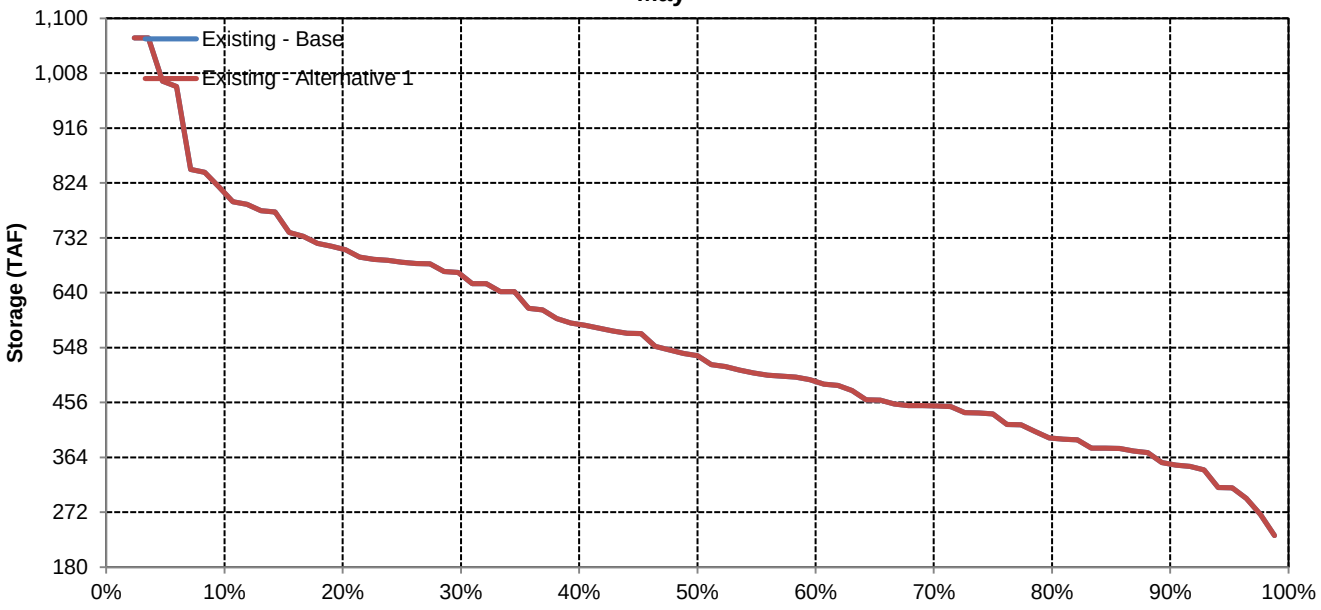


SWP San Luis Reservoir

April

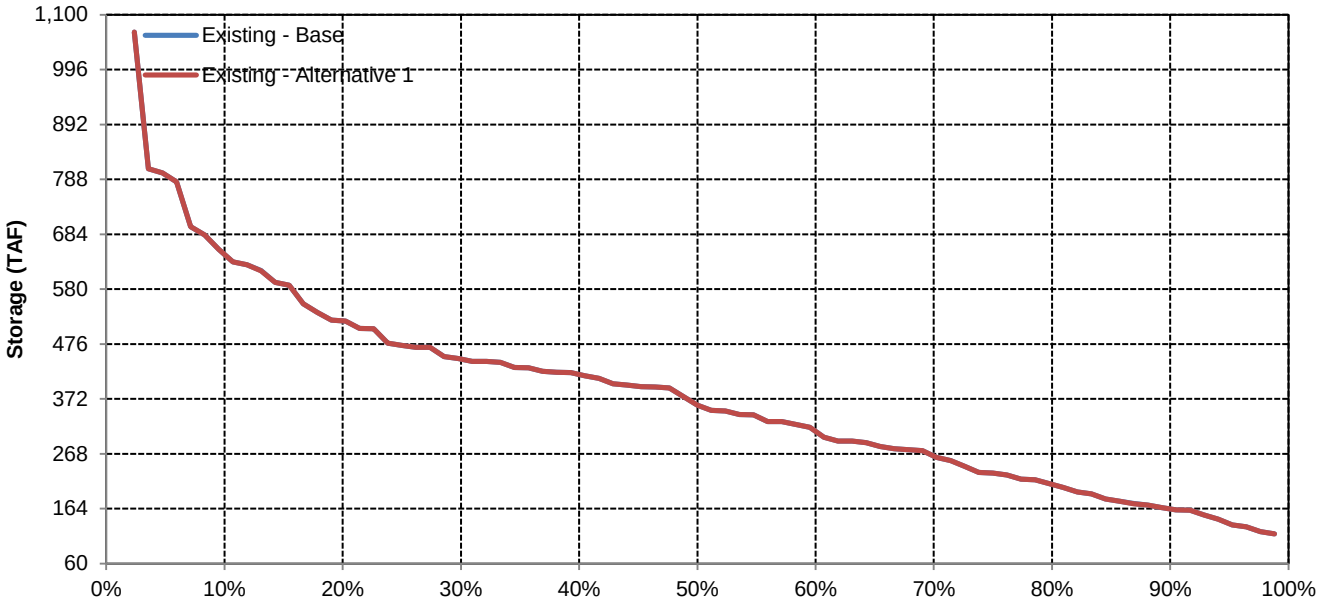


May

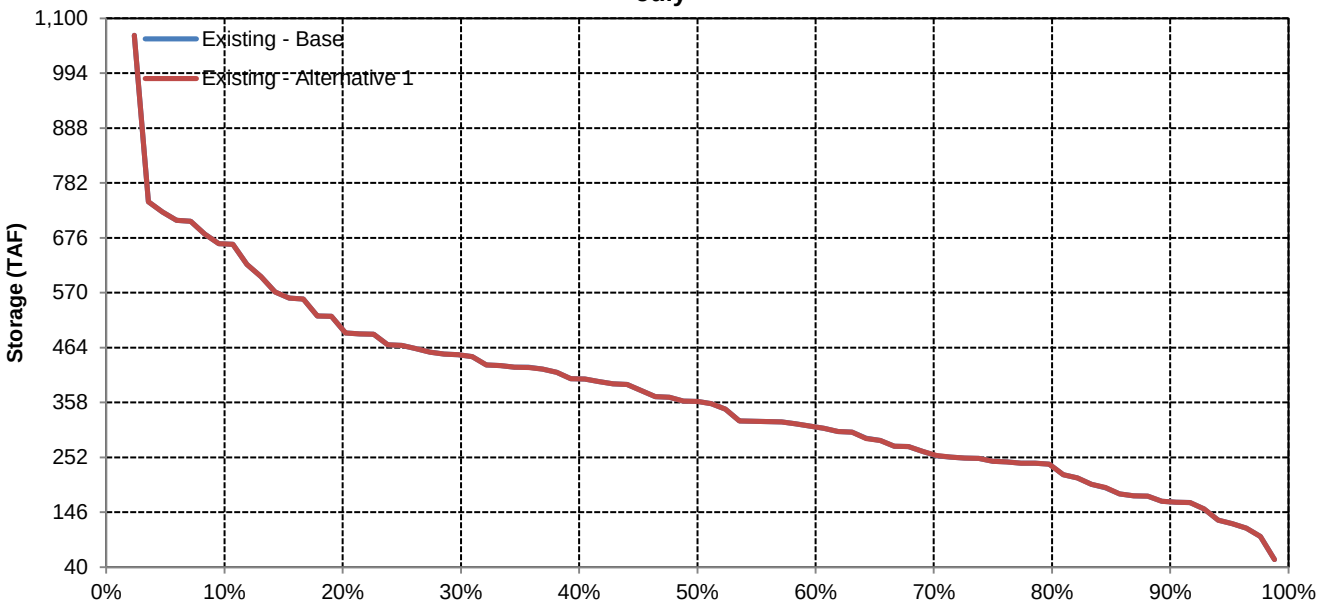


SWP San Luis Reservoir

June

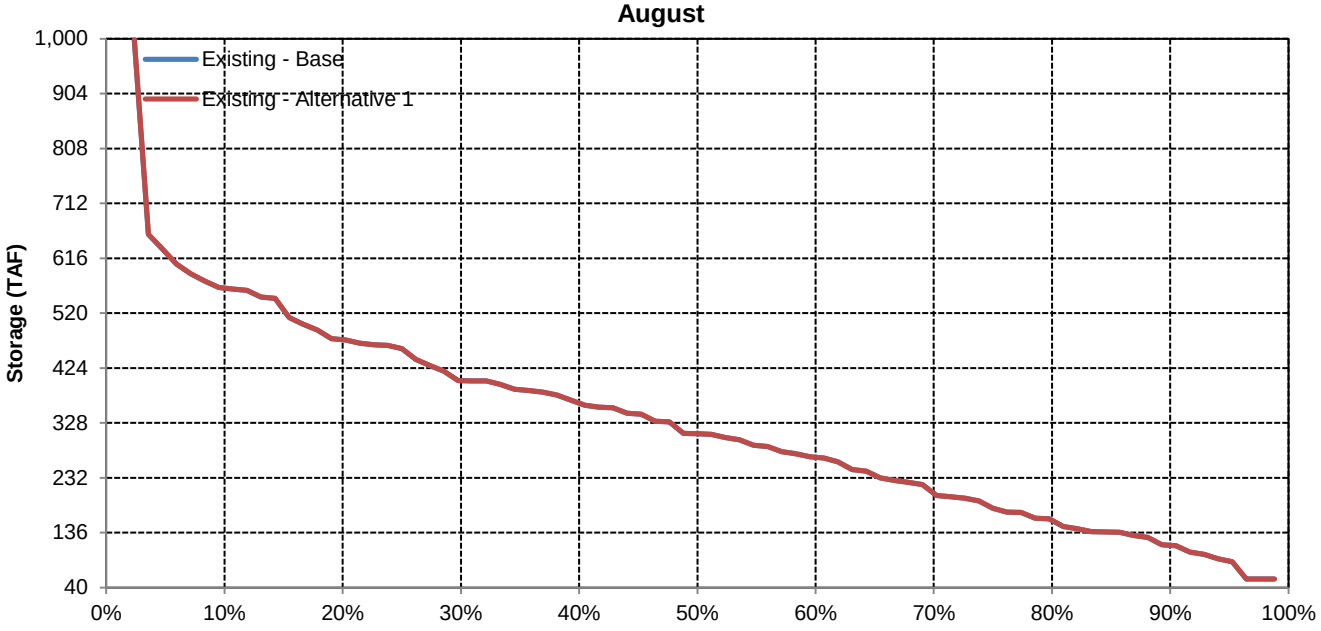


July

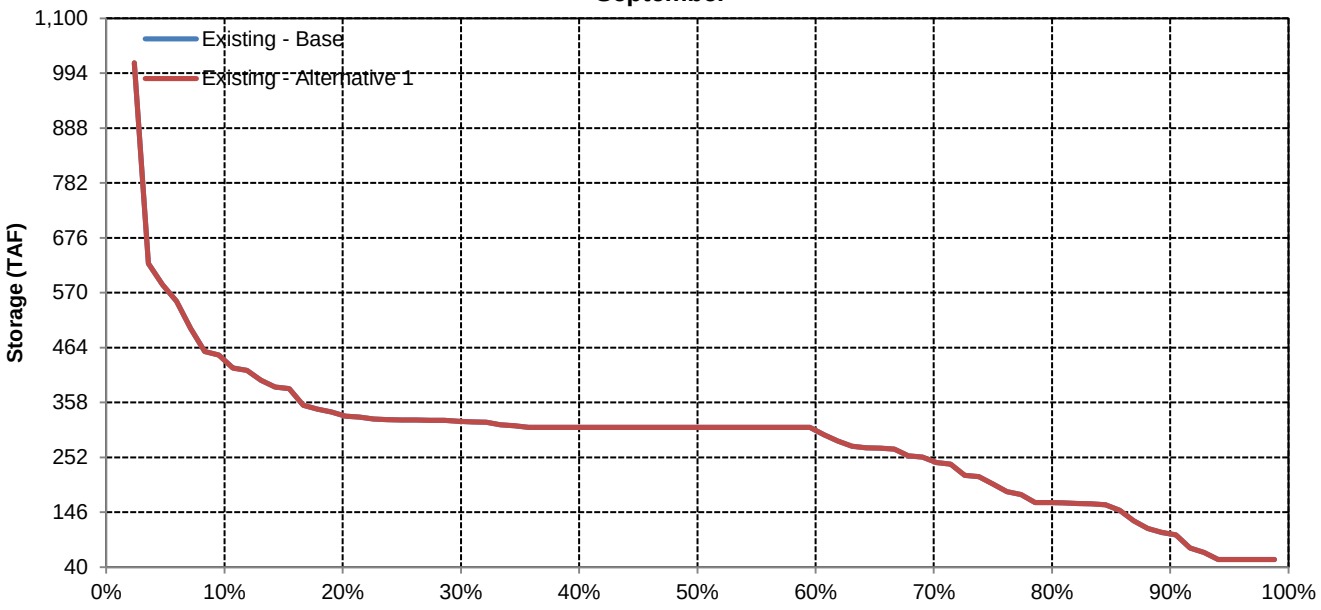


SWP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of Delta Outflow Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331	16,820
Existing - Alternative 1	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331	16,820
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366	31,372
Existing - Alternative 1	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366	31,372
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Existing - Alternative 1	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469	10,847
Existing - Alternative 1	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469	10,847
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269	7,873
Existing - Alternative 1	5,824	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269	7,873
Difference	0	0	0	0	0	0	0	-1	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Existing - Alternative 1	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Delta Outflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,309	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,991	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,714	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,777	38,477	22,321	12,858	7,100	9,084	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,867	31,169	18,044	11,426	7,100	8,603	4,000	3,914
60%	4,000	6,253	6,752	19,211	28,692	22,356	14,643	10,166	6,905	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,591	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,597	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469
Dry	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 1

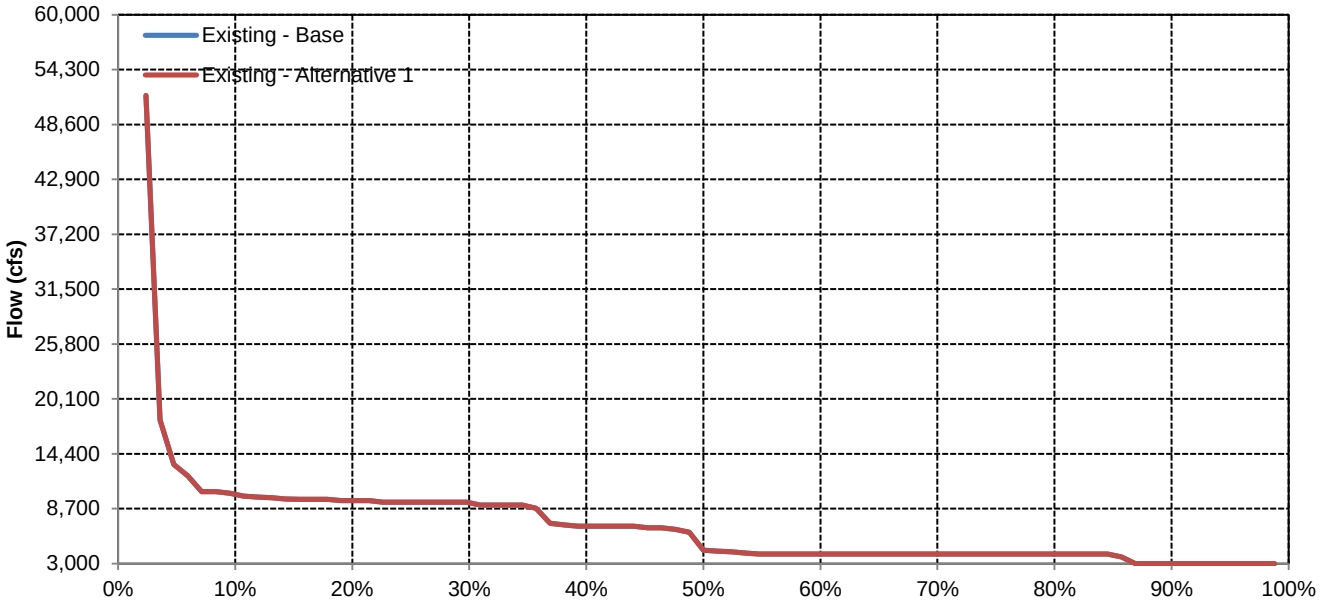
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,308	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,992	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,715	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,776	38,477	22,321	12,858	7,100	9,085	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,868	31,169	18,044	11,426	7,100	8,603	4,000	3,913
60%	4,000	6,253	6,752	19,211	28,692	22,356	14,643	10,166	6,903	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,592	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,596	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469
Dry	5,824	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 1 Minus Existing - Base

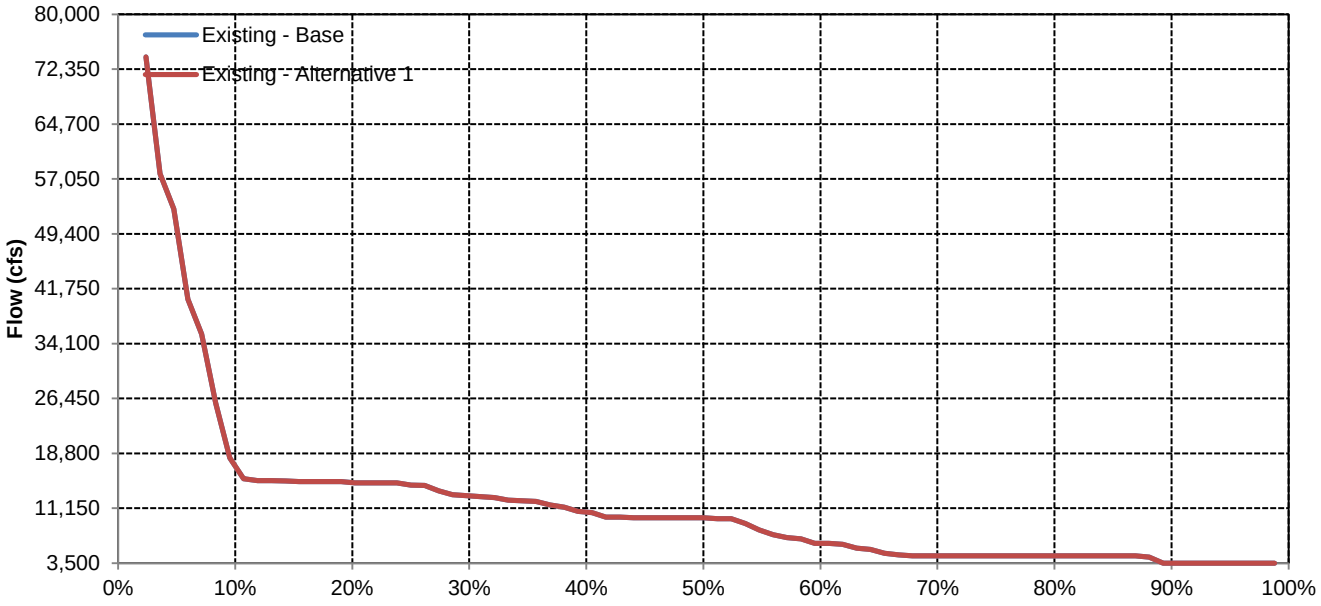
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	-1	0
20%	0	0	0	0	0	0	0	0	1	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	1	0	0	0	0	0	0	-1
60%	0	0	0	0	0	0	0	0	-2	0	0	0
70%	0	0	0	0	0	0	0	0	0	1	0	0
80%	0	0	0	0	0	0	0	-2	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	-1	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Delta Outflow

October

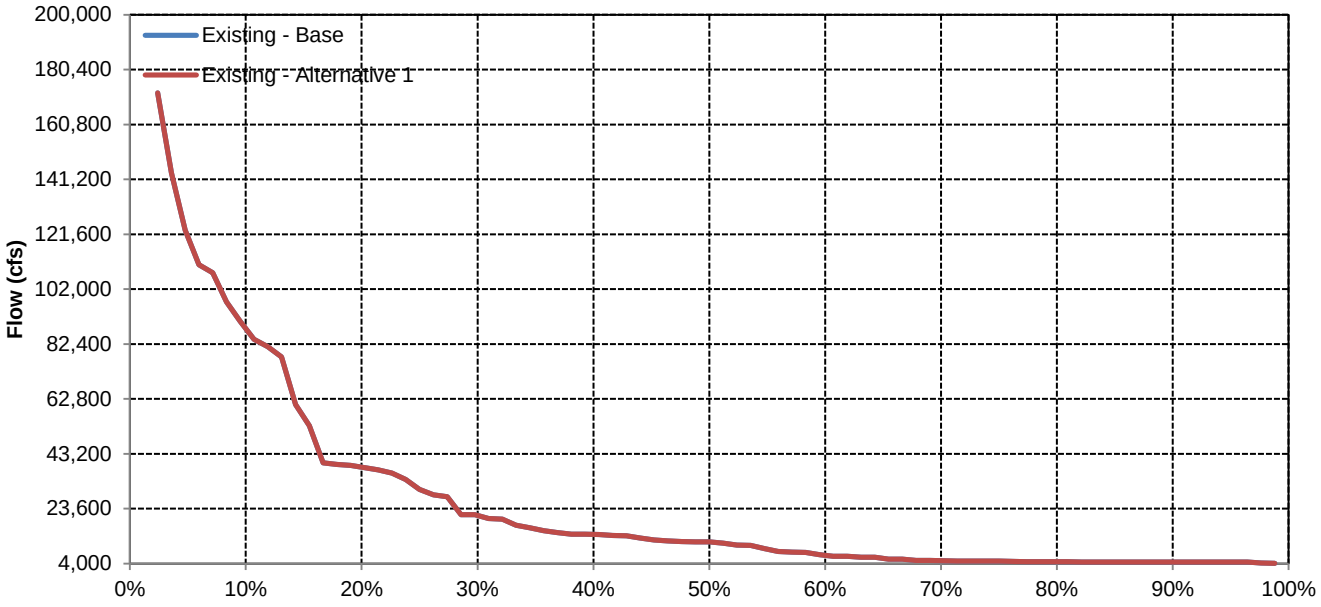


November

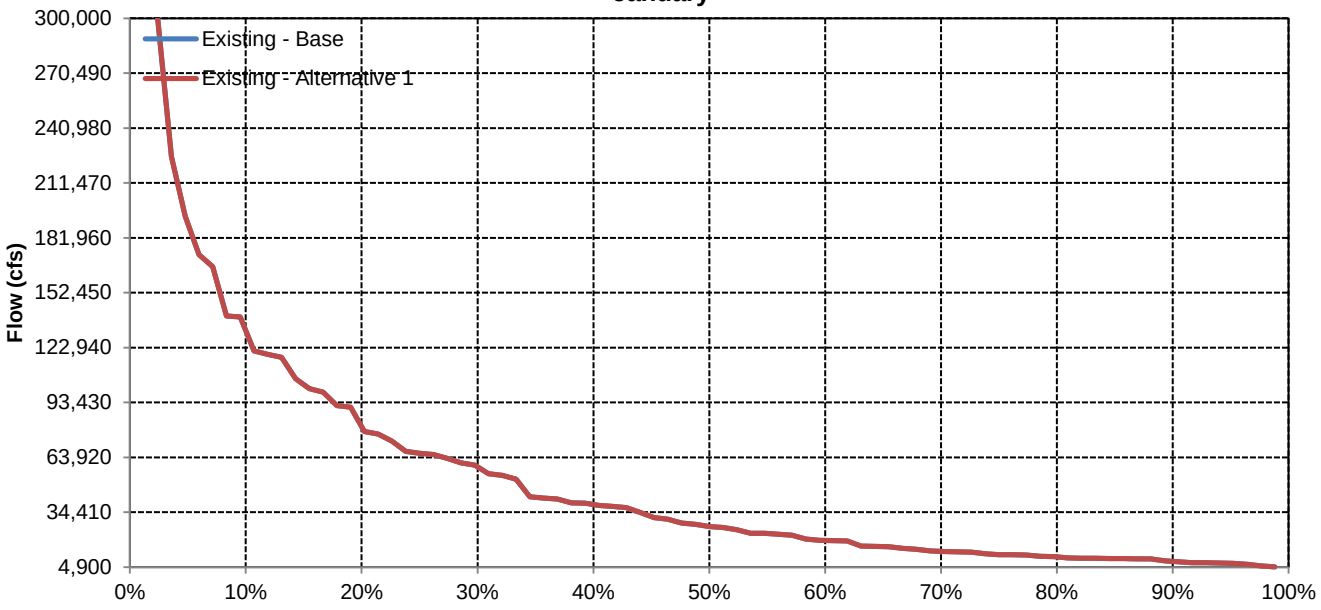


Delta Outflow

December

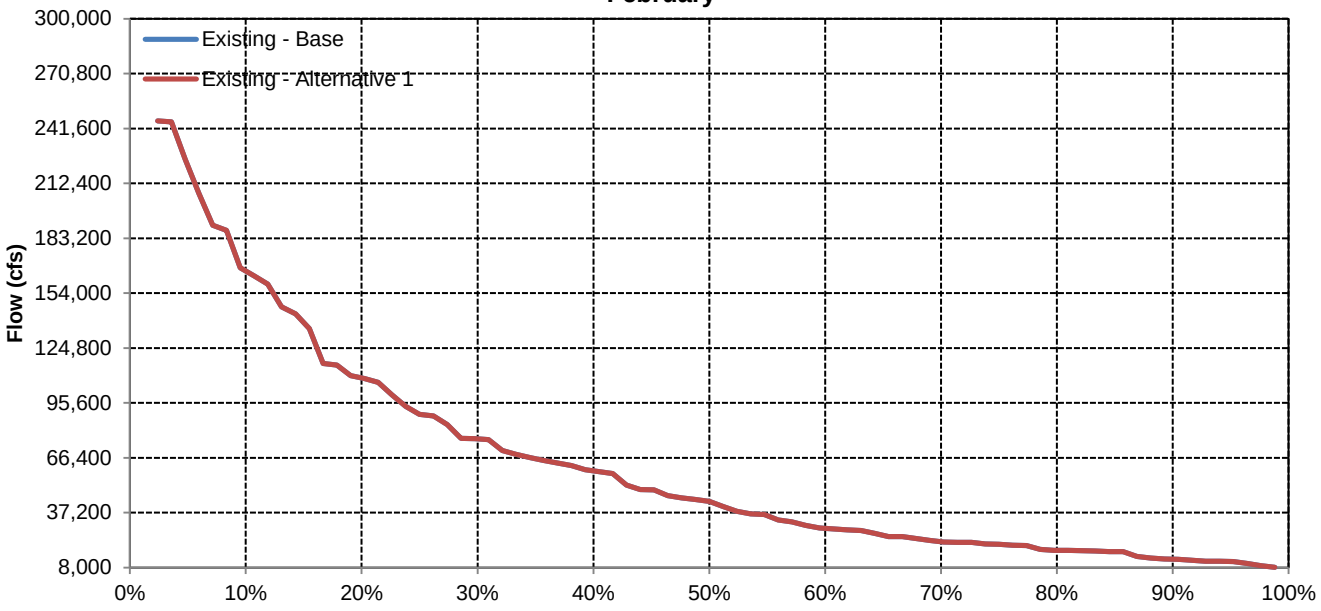


January

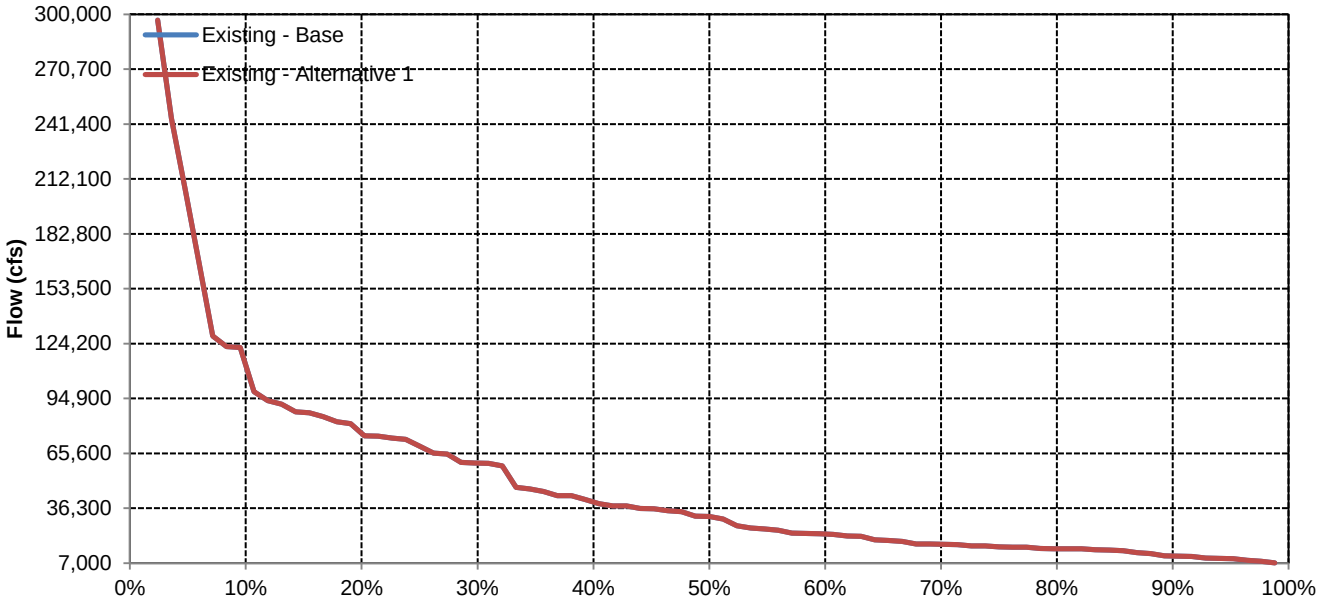


Delta Outflow

February

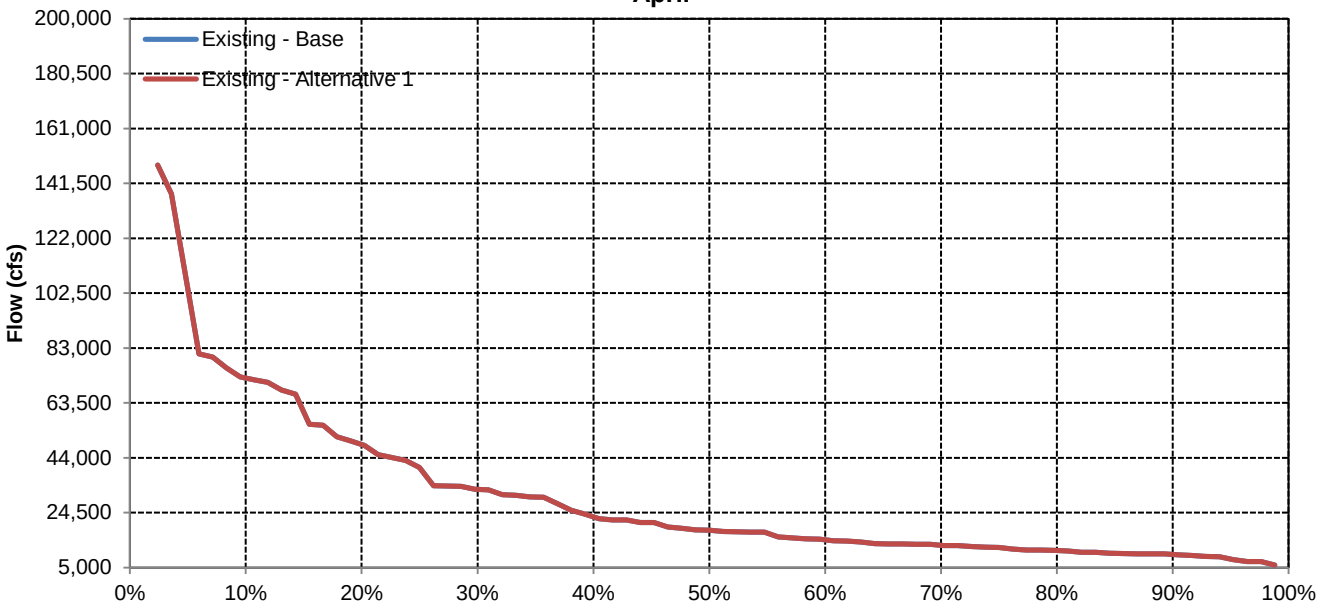


March

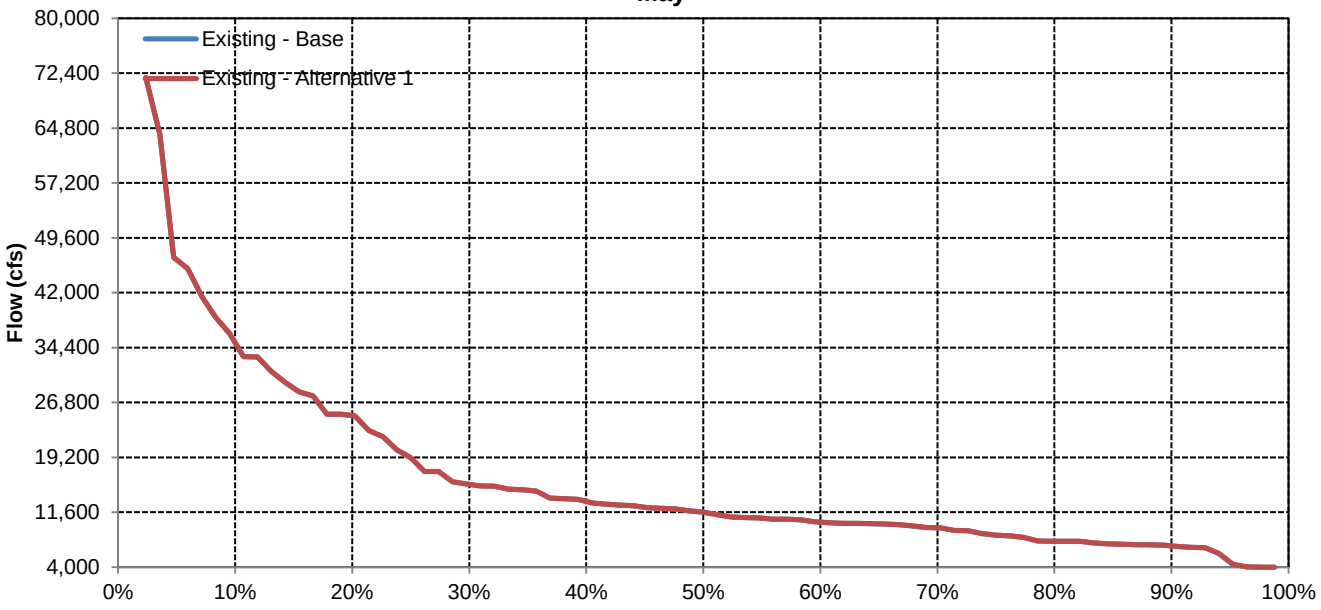


Delta Outflow

April

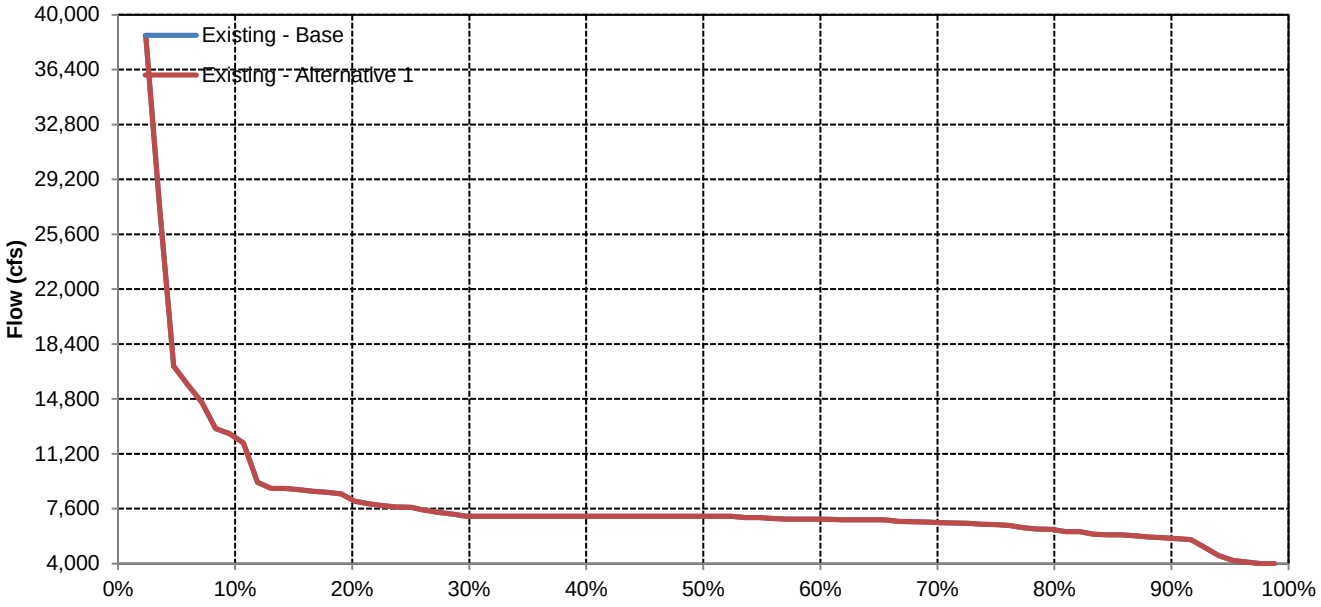


May

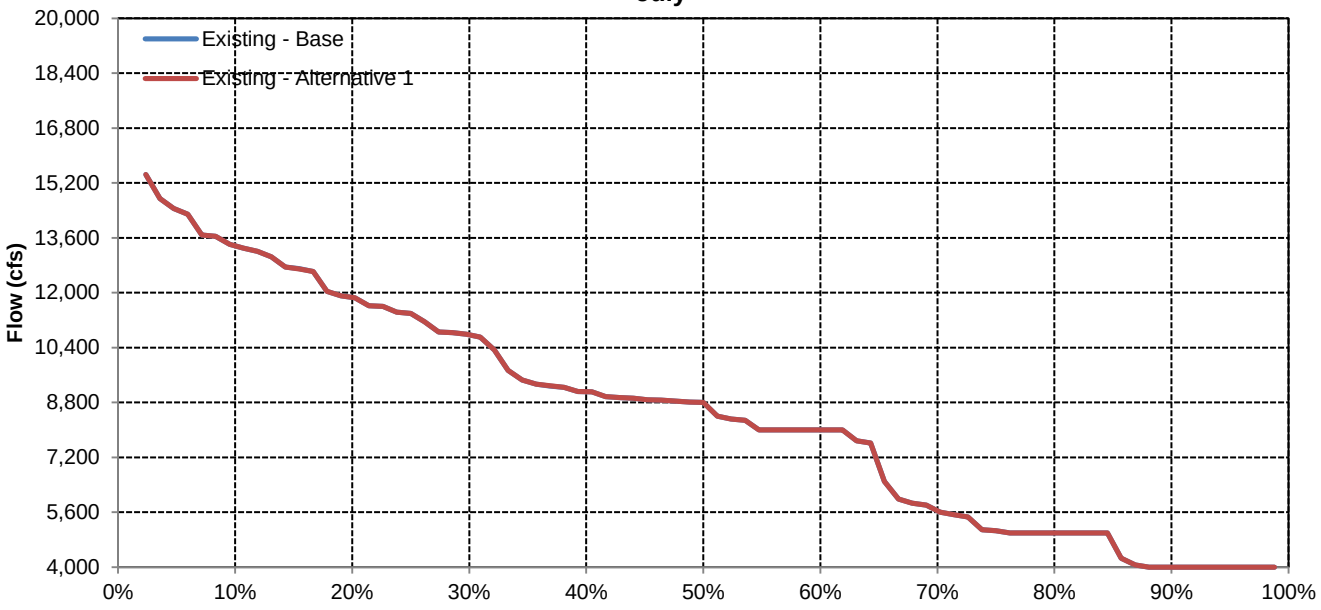


Delta Outflow

June

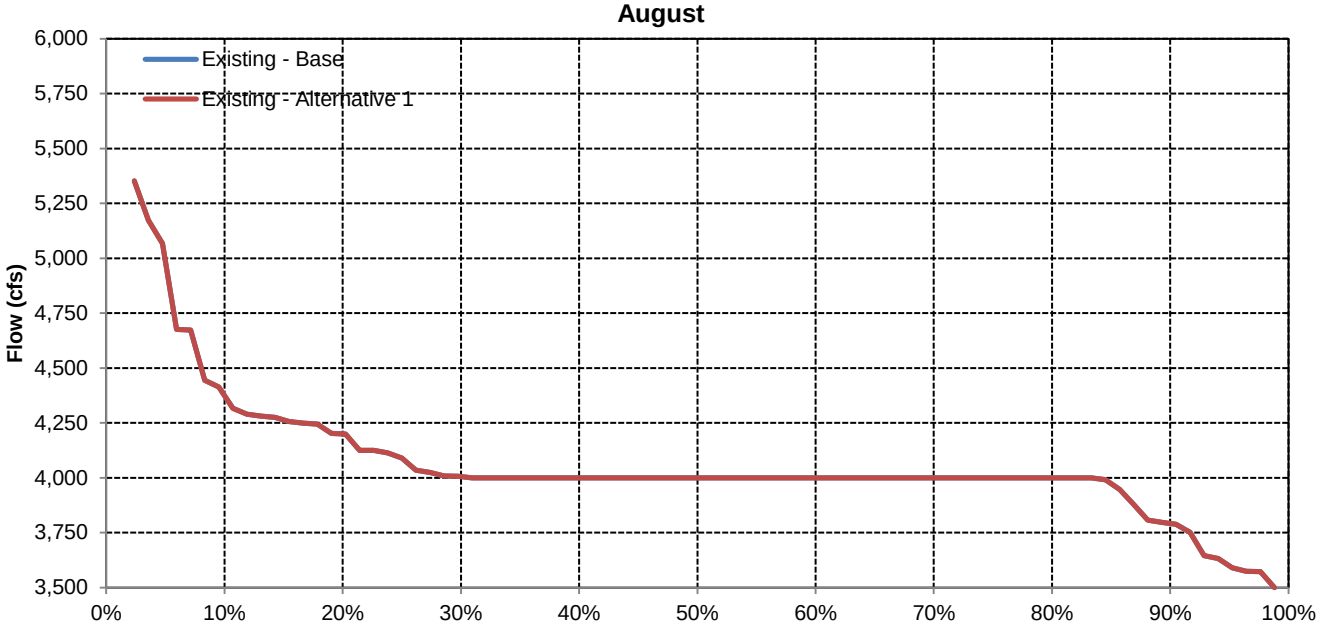


July



Delta Outflow

August



September

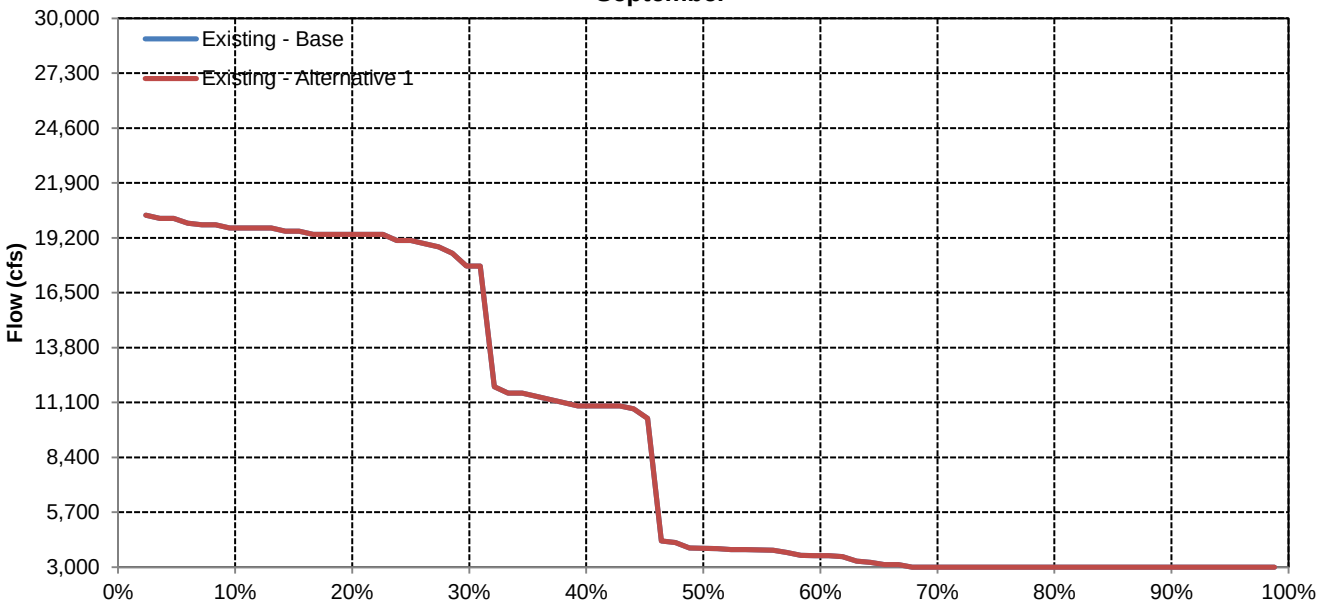


Table 185 Existing Condtions-Alternative 1 (Existing)

Winter-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	November through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Juvenile Rearing and Downstream Movement*	July through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0

Table 186 Existing Condtions-Alternative 1 (Existing)

Spring-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	March through September	Mean Monthly Flow (cfs)	Verona		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juvenile Rearing (and Downstream Movement)	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	October through May	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 187 Existing Condtions-Alternative 1 (Existing)

Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	July through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	December through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				65		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 188 Existing Condtions-Alternative 1 (Existing)

Late Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	October through April	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Juvenile Rearing and Downstream Movement	April through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0

Table 189 Existing Condtions-Alternative 1 (Existing)

Steelhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	August through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	January through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	-1.2	0.0	0.0	0.0			

Table 190 Existing Condtions-Alternative 1 (Existing)

Green Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	February through July	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years					0.0	0.0	0.0	0.0	0.0	0.0		
Adult Post-Spawning Holding and Emigration	July through November	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 191 Existing Condtions-Alternative 1 (Existing)

White Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	November through May	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Freeport	77		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Spawning and Egg Incubation	February through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years					0.0	0.0	0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 192 Existing Condtions-Alternative 1 (Existing)

River Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	September through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 193 Existing Condtions-Alternative 1 (Existing)

Pacific Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	January through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 194 Existing Condtions-Alternative 1 (Existing)

Hardhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adults and Other Lifestages	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adult Spawning	April through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	59-64		All Years							0.0	0.0	0.0			

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 195 Existing Condtions-Alternative 1 (Existing)

American Shad in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
			Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	60-70		All Years							0.0	0.0	0.0			
			Freeport	60-70		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 196 Existing Condtions-Alternative 1 (Existing)

Striped Bass in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	59-68		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-71		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 201 Existing Condtions-Alternative 1 (Existing)

Alternative 1 (Existing) vs Existing Condtions
Sacramento River at Verona, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	84.1	52.4	41.5	32.9	52.4	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	15.9	45.1	58.5	65.9	41.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-15.9	-45.1	-58.5	-65.9	-41.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	54.5	75.8	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	42.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-42.4	-15.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 202 Existing Condtions-Alternative 1 (Existing)

Alternative 1 (Existing) vs Existing Condtions
Sacramento River at Freeport, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	84.1	56.1	41.5	37.8	59.8	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	14.6	39.0	57.3	61.0	35.4	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-14.6	-39.0	-57.3	-61.0	-35.4	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	54.5	87.9	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	42.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-42.4	-3.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 1 (Existing) vs Existing Condtions

Sacramento River at Feather River, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 1 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 1 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 1 (Existing) vs Existing Condtions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 1 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.8	75.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 1 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 227 Existing Condtions-Alternative 1 (Existing)

Delta Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years			0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years			65.9	72.0	61.0	73.2	0.0	0.0				
	September through November	Mean Monthly X_2 (RKm)	X_2 between 74 km and 81 km	74-81		Wet and Above Normal Water Years	0.0	0.0										0.0
	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							
Egg and Embryo	February through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years					0.0	0.0	0.0	0.0				
Larval	March through June	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years						0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years						0.0	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years						0.0	0.0	0.0	0.0			
Juvenile	May through July	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years								0.0	0.0	0.0		
		Mean Monthly X_2 (RKm)	Changes in X_2 between RKm 65 and 80	0.5 RKm		All Years								0.0	0.0	0.0		

Table 228 Existing Condtions-Alternative 1 (Existing)

Longfin Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through March	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0	0.0						
Larvae and Juvenile	April and May	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years							0.0	0.0				
				< 0 cfs		Dry and Critical Water Years							0.0	0.0				
	January through June	Mean Monthly X_2 (RKm)	X_2	< 75 RKm		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				< 75 RKm		Dry and Critical Water Years				0.0	0.0	0.0	0.0	0.0	0.0			

Table 229 Existing Condtions-Alternative 1 (Existing)

Winter-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through May	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	65.9	72.0	61.0	73.2	0.0	0.0				
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 230 Existing Condtions-Alternative 1 (Existing)

Spring-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 231 Existing Condtions-Alternative 1 (Existing)

Fall- and Late Fall-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Adult (San Joaquin River)	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							

Table 232 Existing Condtions-Alternative 1 (Existing)

Steelhead in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	October through July	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0	0.0		
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 233 Existing Condtions-Alternative 1 (Existing)

Green Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	Year-round	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0	0.0	0.0	0.0

Table 234 Existing Condtions-Alternative 1 (Existing)

White Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	April through June	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0			

Table 235 Existing Condtions-Alternative 1 (Existing)

Splittail in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Spawning and Embryo Incubation	February through May	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years					61.0	73.2	0.0	0.0				
Juvenile Rearing and Emigration	April through July	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0	0.0		

Table 236 Existing Condtions-Alternative 1 (Existing)

American Shad in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Table 237 Existing Condtions-Alternative 1 (Existing)

Striped Bass in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 1 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Alternative 1 (Existing) vs Existing Condtions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 1 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.8	75.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 1 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 239 Existing Condtions-Alternative 1 (Existing)

Alternative 1 (Existing) vs Existing Condtions
Sacramento River at Rio Vista, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	97.6	95.1	92.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	1.2	1.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	1.2	1.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 240 Existing Condtions-Alternative 1 (Existing)

Alternative 1 (Existing) vs Existing Condtions
Yolo Bypass, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	29.3	17.1	23.2	15.9	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	69.5	70.7	82.9	75.6	84.1	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	70.7	82.9	75.6	84.1	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	67.1	65.9	72.0	61.0	73.2	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	75.8	63.6	24.2	30.3	15.2	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0

Table 241 Existing Condtions-Alternative 1 (Existing)

Alternative 1 (Existing) vs Existing Condtions
Delta Outflow, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Long-Term and Water Year-Type Average of Sacramento River Delta Inflow Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482	15,659
Existing - Alternative 1	11,300	15,619	23,806	33,300	40,743	34,914	22,062	13,364	12,597	19,584	13,697	16,482	15,476
Difference	0	-128	-503	-921	-1,041	-480	0	0	0	0	0	0	-183
Percent Difference	0%	-1%	-2%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010	22,938
Existing - Alternative 1	13,018	21,715	41,187	55,063	62,917	51,855	36,791	18,384	13,639	21,152	15,520	26,010	22,647
Difference	0	-353	-1,245	-1,479	-1,196	-575	0	0	0	0	0	0	-291
Percent Difference	0%	-2%	-3%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
Above Normal													
Existing - Base	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988	17,937
Existing - Alternative 1	11,695	14,526	22,766	42,172	49,573	45,519	22,271	14,655	13,069	22,489	16,033	18,988	17,664
Difference	0	-40	-446	-1,602	-1,781	-735	0	0	-1	0	0	0	-273
Percent Difference	0%	0%	-2%	-4%	-3%	-2%	0%	0%	0%	0%	0%	0%	-2%
Below Normal													
Existing - Base	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013	13,248
Existing - Alternative 1	10,841	14,698	16,298	23,109	31,651	28,574	18,090	11,885	12,782	22,590	15,187	12,013	13,106
Difference	0	-49	-186	-690	-933	-552	0	0	0	0	0	0	-143
Percent Difference	0%	0%	-1%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994	10,852
Existing - Alternative 1	10,423	12,547	14,606	17,403	26,909	22,651	11,912	10,212	12,472	17,228	11,469	10,994	10,753
Difference	0	-19	-81	-324	-889	-377	0	-1	0	0	0	0	-99
Percent Difference	0%	0%	-1%	-2%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772	8,039
Existing - Alternative 1	9,148	9,410	11,537	14,722	17,043	14,349	10,330	7,910	9,857	12,298	8,422	7,772	8,002
Difference	0	0	-28	-199	-333	-62	0	0	0	0	0	0	-37
Percent Difference	0%	0%	0%	-1%	-2%	0%	0%	0%	0%	0%	0%	0%	0%

Sacramento River Delta Inflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	22,010	56,115	71,084	75,521	65,784	49,402	23,850	14,772	24,306	16,775	28,029
20%	13,619	18,623	35,016	61,750	67,715	57,900	35,366	14,647	13,790	23,675	16,437	24,442
30%	12,912	17,392	24,392	45,490	58,539	48,511	24,073	12,554	13,215	23,166	15,988	22,307
40%	12,254	15,897	19,607	34,106	50,381	38,401	16,613	11,092	12,891	22,072	15,543	18,189
50%	11,265	14,221	17,083	26,083	35,167	28,964	13,801	10,661	12,353	20,699	15,010	13,962
60%	10,411	12,217	14,976	20,006	27,645	22,764	12,349	10,122	11,925	19,938	14,452	12,771
70%	8,888	10,901	14,365	15,735	23,924	20,351	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,704	13,922	18,176	16,100	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,915	16,074	12,014	9,372	8,228	10,168	12,060	8,272	8,038
Long Term												
Full Simulation Period	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010
Above Normal	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988
Below Normal	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013
Dry	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	21,765	53,886	69,129	75,429	65,386	49,402	23,850	14,772	24,306	16,775	28,030
20%	13,619	18,581	33,416	58,642	66,079	56,971	35,366	14,647	13,791	23,675	16,437	24,445
30%	12,912	17,383	23,861	43,874	56,915	47,786	24,073	12,554	13,215	23,166	15,989	22,307
40%	12,254	15,874	19,411	32,095	48,037	36,502	16,613	11,092	12,892	22,072	15,543	18,189
50%	11,265	14,206	16,831	25,424	32,956	28,595	13,801	10,661	12,352	20,699	15,010	13,962
60%	10,411	12,216	14,934	19,754	26,826	22,567	12,349	10,119	11,925	19,939	14,452	12,771
70%	8,887	10,901	14,331	15,643	23,336	20,271	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,686	13,903	18,047	16,011	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,907	15,981	12,006	9,372	8,228	10,168	12,057	8,273	8,038
Long Term												
Full Simulation Period	11,300	15,619	23,806	33,300	40,743	34,914	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	21,715	41,187	55,063	62,917	51,855	36,791	18,384	13,639	21,152	15,520	26,010
Above Normal	11,695	14,526	22,766	42,172	49,573	45,519	22,271	14,655	13,069	22,489	16,033	18,988
Below Normal	10,841	14,698	16,298	23,109	31,651	28,574	18,090	11,885	12,782	22,590	15,187	12,013
Dry	10,423	12,547	14,606	17,403	26,909	22,651	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,148	9,410	11,537	14,722	17,043	14,349	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-245	-2,228	-1,956	-92	-398	0	0	0	0	0	0
20%	0	-42	-1,600	-3,107	-1,636	-929	0	0	1	0	0	3
30%	0	-9	-531	-1,617	-1,624	-725	0	0	0	0	1	0
40%	0	-23	-196	-2,012	-2,344	-1,899	0	0	1	1	0	0
50%	0	-15	-252	-659	-2,211	-370	0	0	-1	0	0	0
60%	0	-1	-42	-252	-820	-197	0	-3	0	1	0	0
70%	-1	0	-34	-92	-589	-80	0	0	0	0	0	0
80%	0	0	-18	-19	-129	-89	0	0	0	0	0	0
90%	0	0	0	-7	-92	-8	0	0	0	-3	0	0
Long Term												
Full Simulation Period	0	-128	-503	-921	-1,041	-480	0	0	0	0	0	0
Water Year Types												
Wet	0	-353	-1,245	-1,479	-1,196	-575	0	0	0	0	0	0
Above Normal	0	-40	-446	-1,602	-1,781	-735	0	0	-1	0	0	0
Below Normal	0	-49	-186	-690	-933	-552	0	0	0	0	0	0
Dry	0	-19	-81	-324	-889	-377	0	-1	0	0	0	0
Critical	0	0	-28	-199	-333	-62	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Existing - Alternative 1	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Existing - Alternative 1	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Existing - Alternative 1	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Existing - Alternative 1	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Existing - Alternative 1	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Existing - Alternative 1	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,634	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,633	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Existing - Alternative 1	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Existing - Alternative 1	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Existing - Alternative 1	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Existing - Alternative 1	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Existing - Alternative 1	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Existing - Alternative 1	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,081	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,080	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	-1	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Existing - Alternative 1	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Existing - Alternative 1	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Existing - Alternative 1	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Existing - Alternative 1	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Existing - Alternative 1	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Existing - Alternative 1	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Existing - Alternative 1	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Existing - Alternative 1	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Existing - Alternative 1	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272	2,458
Existing - Alternative 1	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272	2,458
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Existing - Alternative 1	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Existing - Alternative 1	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	592	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,035	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,448	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,205	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 1

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	593	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,034	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,449	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,204	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	-1	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Fremont Weir Spill to Yolo Bypass Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0	1,933
Existing - Alternative 1	114	391	3,150	9,421	14,271	7,423	1,024	20	0	0	0	0	2,120
Difference	0	133	516	936	1,067	489	0	0	0	0	0	0	187
Percent Difference	0%	52%	20%	11%	8%	7%	0%	0%	0%	0%	0%	0%	10%
							Water Year-Types						
Wet													
Existing - Base	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0	5,472
Existing - Alternative 1	374	1,216	8,962	26,962	37,595	19,098	3,244	64	0	0	0	0	5,772
Difference	0	372	1,284	1,515	1,226	592	0	0	0	0	0	0	299
Percent Difference	0%	44%	17%	6%	3%	3%	0%	0%	0%	0%	0%	0%	5%
Above Normal													
Existing - Base	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0	1,470
Existing - Alternative 1	0	40	2,456	6,179	12,099	8,572	33	0	0	0	0	0	1,749
Difference	0	40	448	1,629	1,829	749	0	0	0	0	0	0	279
Percent Difference	0%	0%	22%	36%	18%	10%	0%	0%	0%	0%	0%	0%	19%
Below Normal													
Existing - Base	0	0	0	291	2,453	501	143	0	0	0	0	0	196
Existing - Alternative 1	0	49	186	983	3,420	1,060	143	0	0	0	0	0	341
Difference	0	49	186	693	967	559	0	0	0	0	0	0	145
Percent Difference	0%	0%	0%	238%	39%	112%	0%	0%	0%	0%	0%	0%	74%
Dry													
Existing - Base	0	0	0	0	537	224	0	0	0	0	0	0	44
Existing - Alternative 1	0	19	81	324	1,441	603	0	0	0	0	0	0	144
Difference	0	19	81	324	904	379	0	0	0	0	0	0	100
Percent Difference	0%	0%	0%	128364%	168%	169%	0%	0%	0%	0%	0%	0%	229%
Critical													
Existing - Base	0	0	0	0	1	0	0	0	0	0	0	0	0
Existing - Alternative 1	0	0	28	199	333	62	0	0	0	0	0	0	37
Difference	0	0	28	199	333	62	0	0	0	0	0	0	37
Percent Difference	0%	0%	0%	0%	42911%	0%	0%	0%	0%	0%	0%	0%	82208%

Fremont Weir Spill to Yolo Bypass

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	7,950	28,958	47,428	19,929	23	0	0	0	0	0
20%	0	0	17	7,664	20,668	5,676	0	0	0	0	0	0
30%	0	0	0	2,091	7,247	1,385	0	0	0	0	0	0
40%	0	0	0	0	1,768	0	0	0	0	0	0	0
50%	0	0	0	0	23	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0
Water Year Types												
Wet	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0
Above Normal	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0
Below Normal	0	0	0	291	2,453	501	143	0	0	0	0	0
Dry	0	0	0	0	537	224	0	0	0	0	0	0
Critical	0	0	0	0	1	0	0	0	0	0	0	0

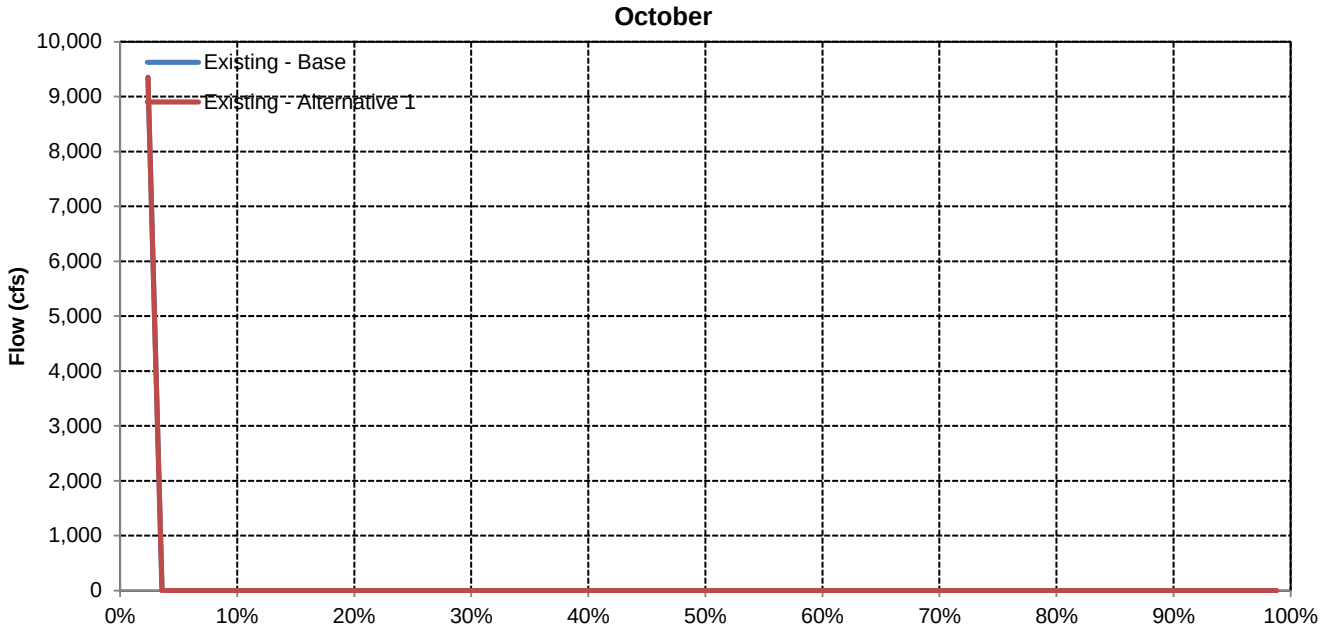
Existing - Alternative 1

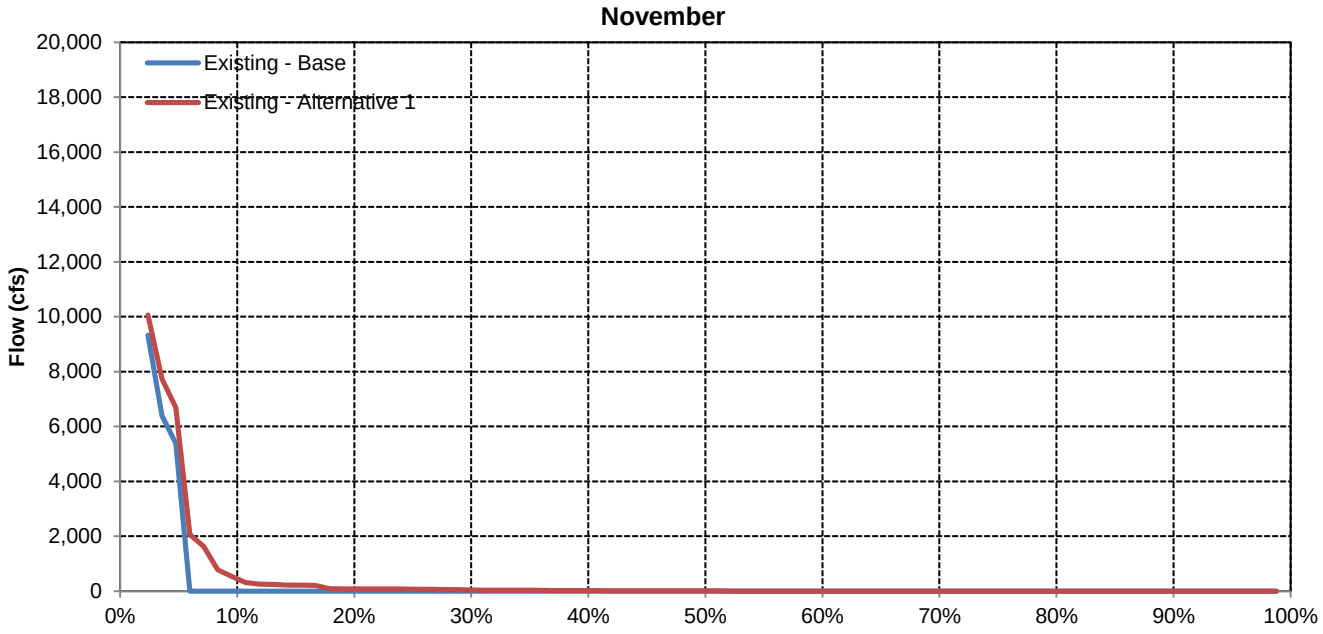
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	297	10,136	30,143	48,857	20,046	23	0	0	0	0	0
20%	0	80	2,082	10,588	22,009	6,577	0	0	0	0	0	0
30%	0	35	618	4,995	9,779	3,176	0	0	0	0	0	0
40%	0	17	248	1,955	4,026	1,632	0	0	0	0	0	0
50%	0	4	138	808	2,733	385	0	0	0	0	0	0
60%	0	0	31	271	1,050	193	0	0	0	0	0	0
70%	0	0	8	84	395	93	0	0	0	0	0	0
80%	0	0	0	27	129	29	0	0	0	0	0	0
90%	0	0	0	7	37	1	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	391	3,150	9,421	14,271	7,423	1,024	20	0	0	0	0
Water Year Types												
Wet	374	1,216	8,962	26,962	37,595	19,098	3,244	64	0	0	0	0
Above Normal	0	40	2,456	6,179	12,099	8,572	33	0	0	0	0	0
Below Normal	0	49	186	983	3,420	1,060	143	0	0	0	0	0
Dry	0	19	81	324	1,441	603	0	0	0	0	0	0
Critical	0	0	28	199	333	62	0	0	0	0	0	0

Existing - Alternative 1 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	297	2,186	1,185	1,429	117	0	0	0	0	0	0
20%	0	80	2,065	2,923	1,341	902	0	0	0	0	0	0
30%	0	35	618	2,904	2,532	1,791	0	0	0	0	0	0
40%	0	17	248	1,955	2,257	1,632	0	0	0	0	0	0
50%	0	4	138	808	2,710	385	0	0	0	0	0	0
60%	0	0	31	271	1,050	193	0	0	0	0	0	0
70%	0	0	8	84	395	93	0	0	0	0	0	0
80%	0	0	0	27	129	29	0	0	0	0	0	0
90%	0	0	0	7	37	1	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	133	516	936	1,067	489	0	0	0	0	0	0
Water Year Types												
Wet	0	372	1,284	1,515	1,226	592	0	0	0	0	0	0
Above Normal	0	40	448	1,629	1,829	749	0	0	0	0	0	0
Below Normal	0	49	186	693	967	559	0	0	0	0	0	0
Dry	0	19	81	324	904	379	0	0	0	0	0	0
Critical	0	0	28	199	333	62	0	0	0	0	0	0

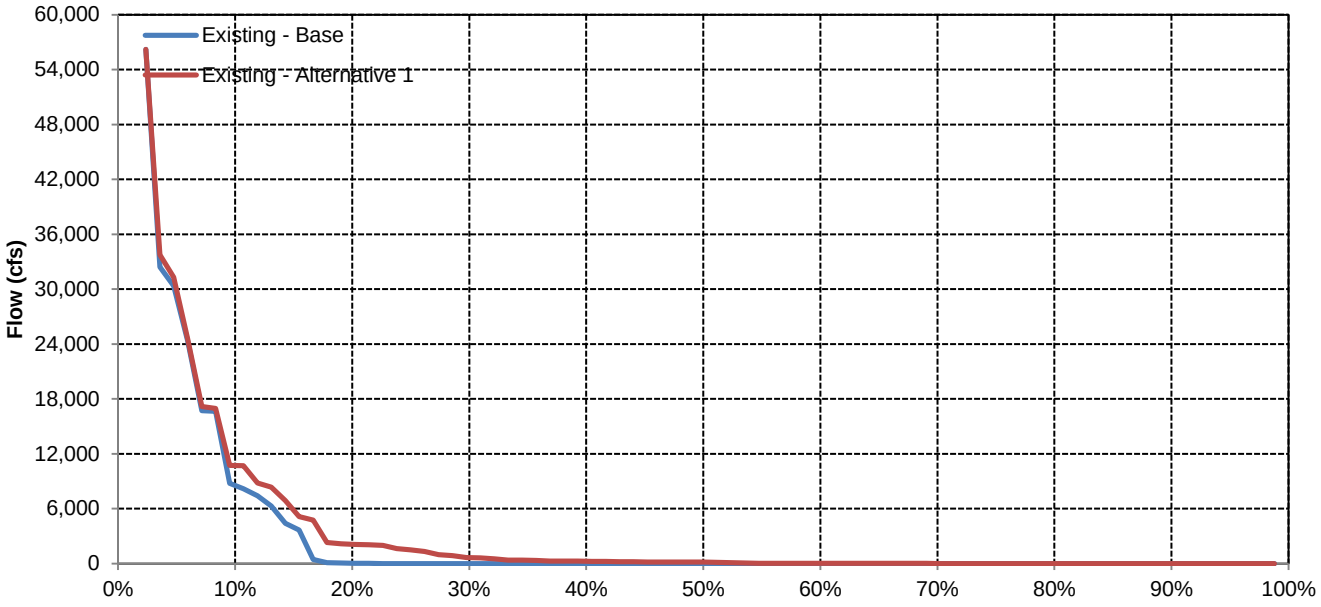
Fremont Weir Spill to Yolo Bypass



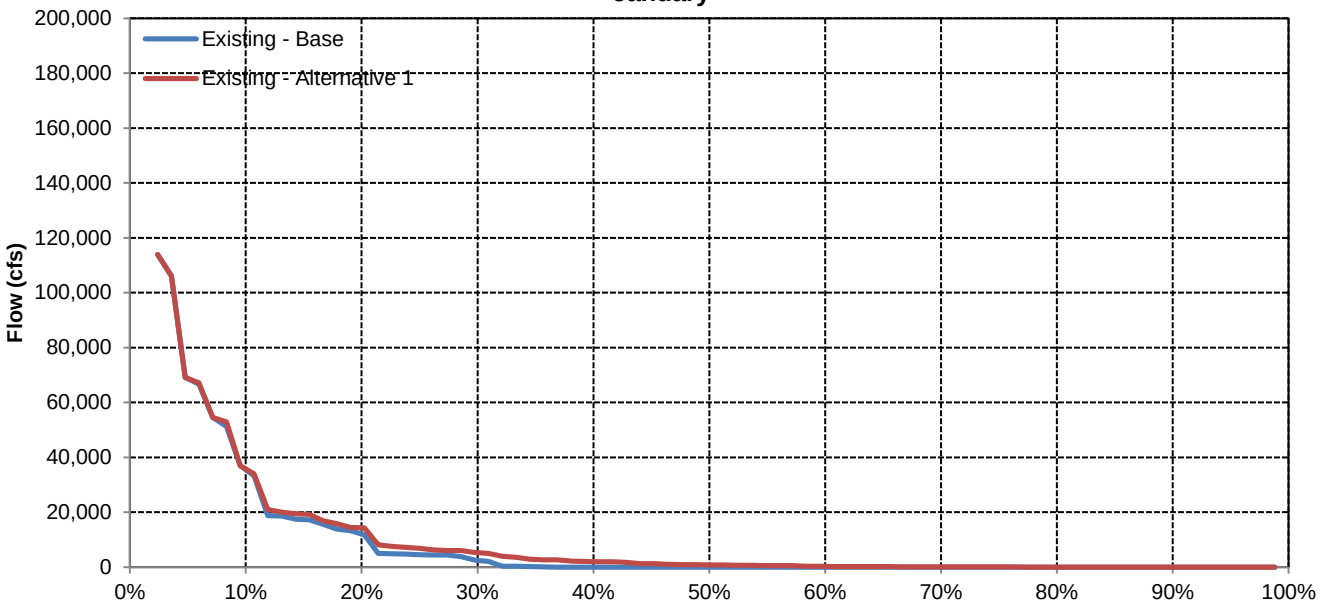


Fremont Weir Spill to Yolo Bypass

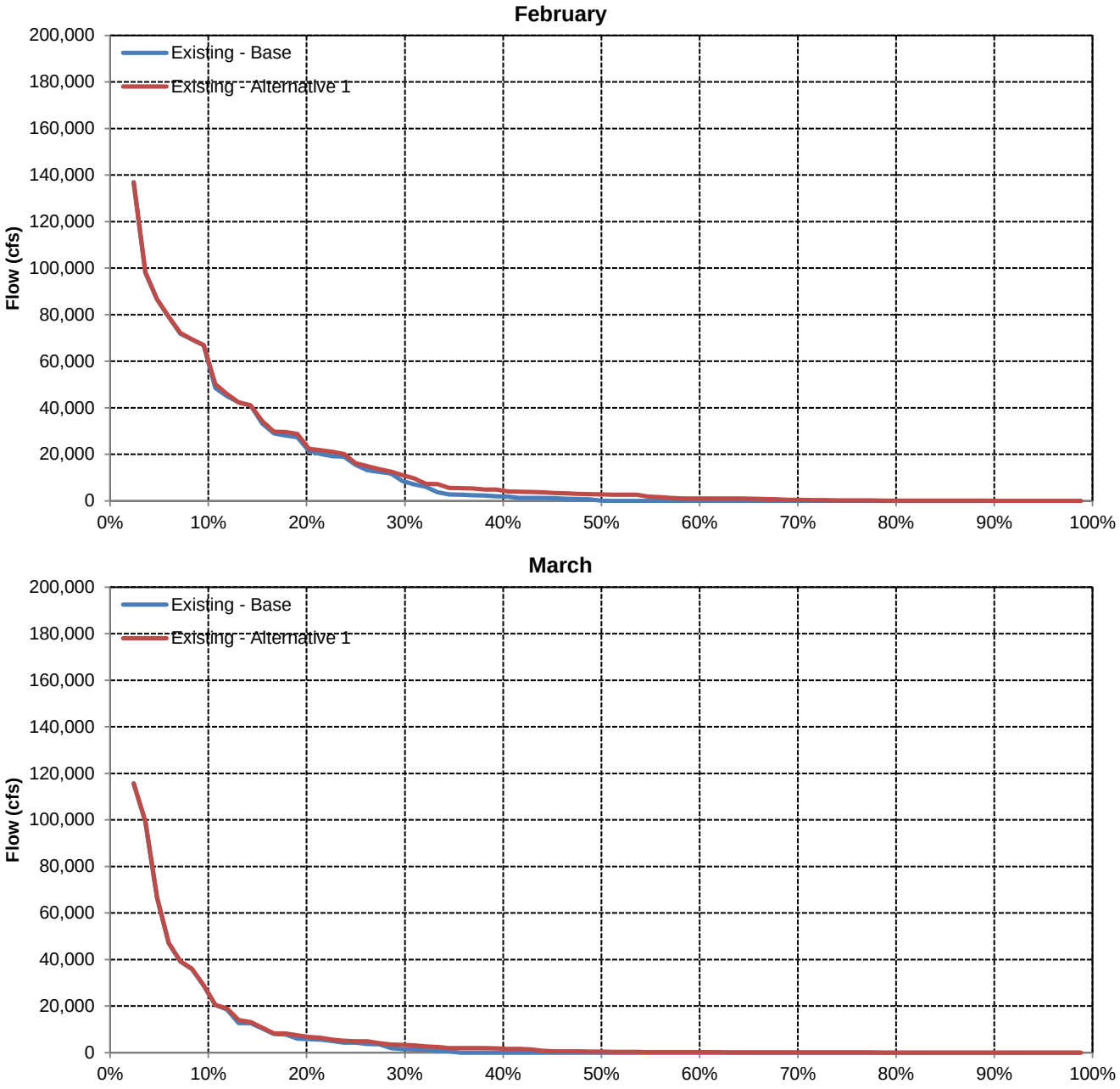
December



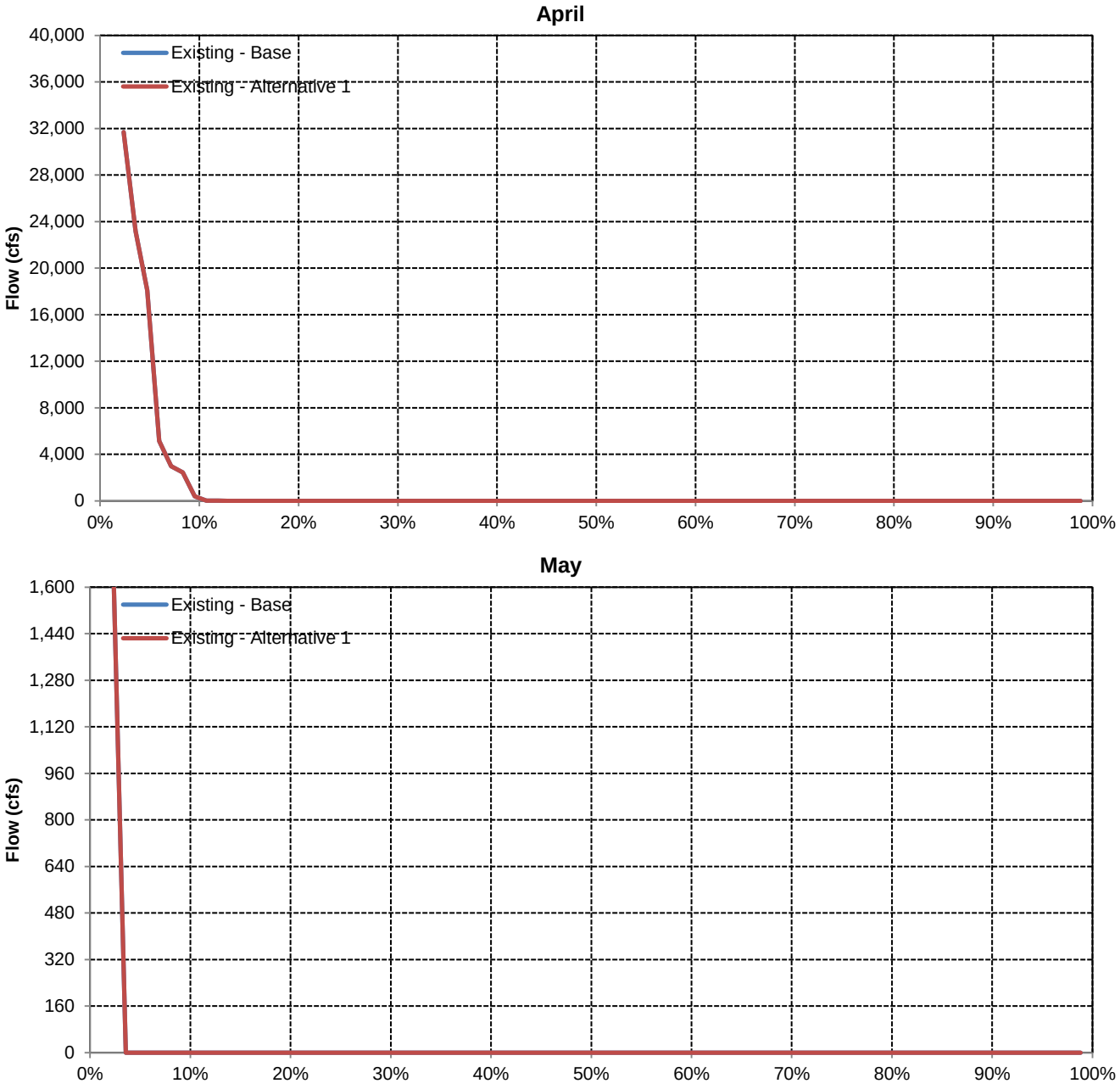
January



Fremont Weir Spill to Yolo Bypass

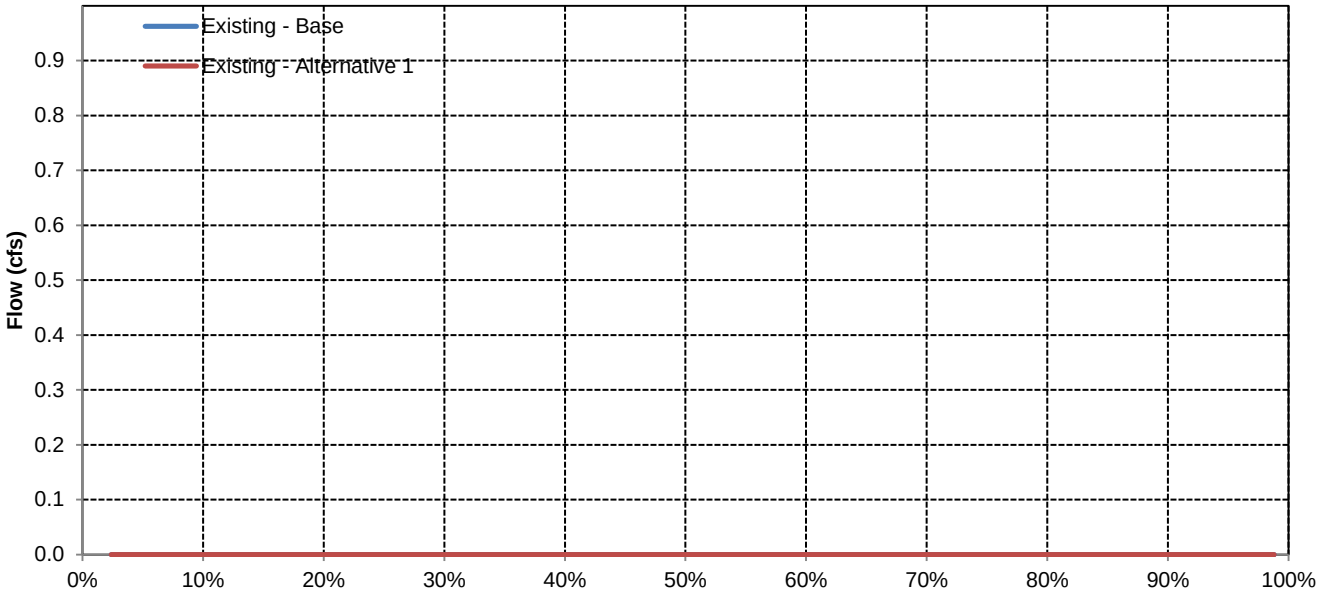


Fremont Weir Spill to Yolo Bypass

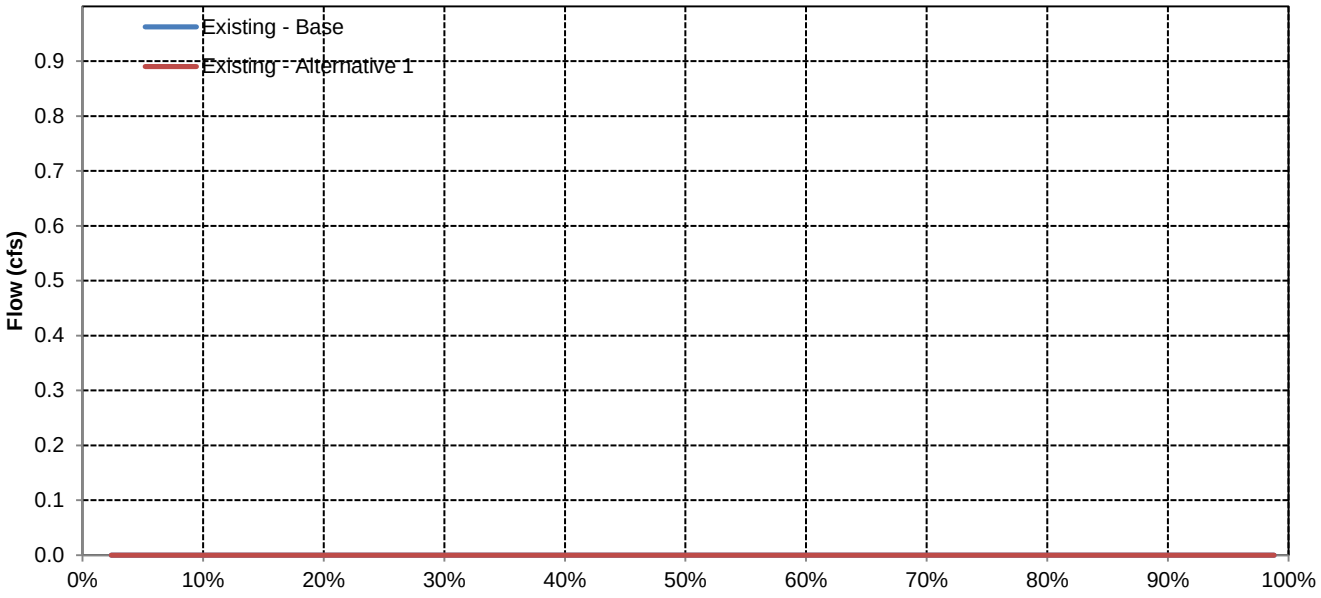


Fremont Weir Spill to Yolo Bypass

June

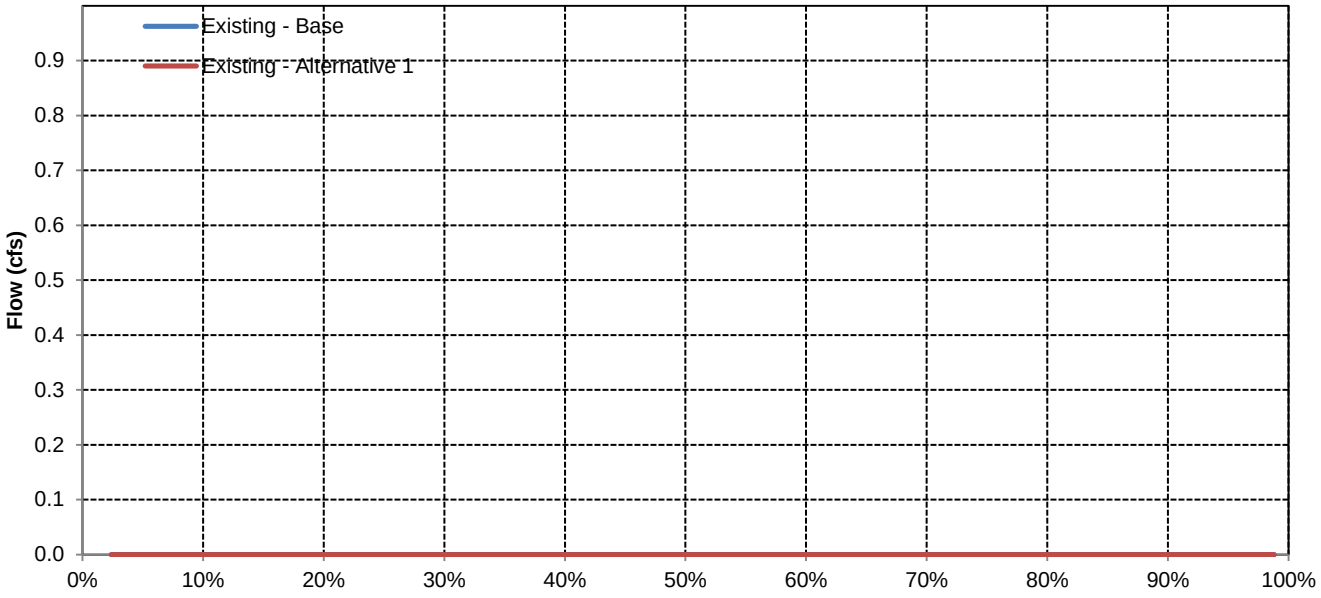


July

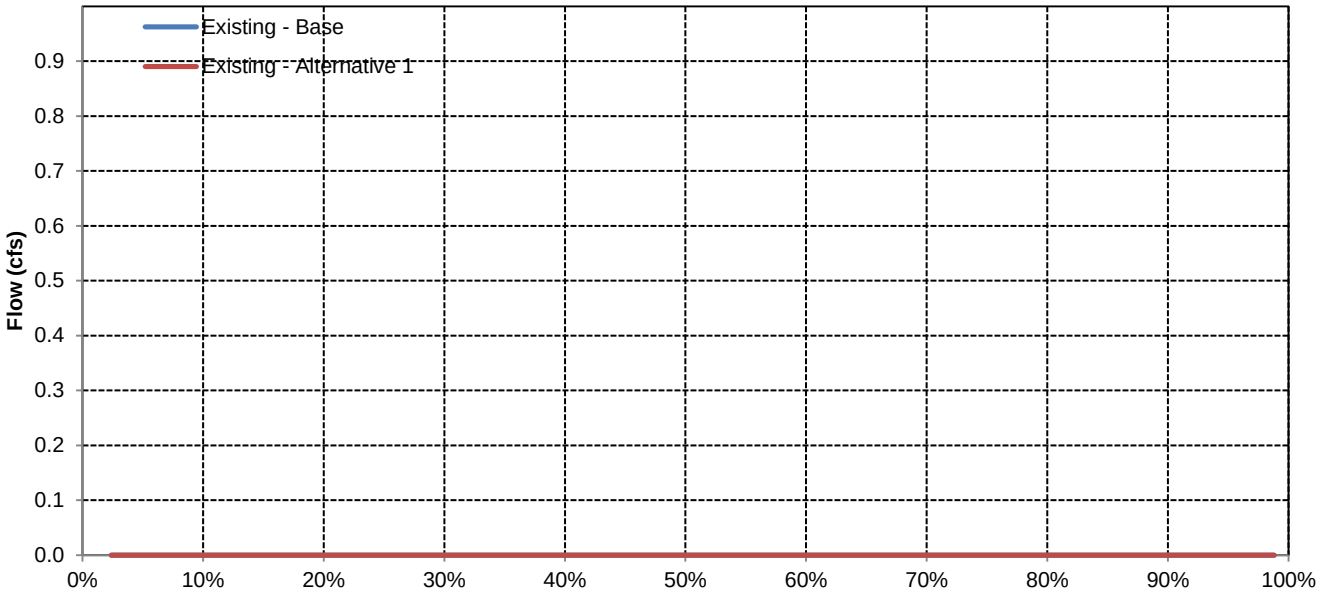


Fremont Weir Spill to Yolo Bypass

August



September



Long-Term and Water Year-Type Average of Sacramento River below Fremont Weir Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753	13,226
Existing - Alternative 1	9,484	12,377	19,211	27,598	33,813	29,578	18,487	11,524	11,174	16,563	12,346	14,753	13,039
Difference	0	-133	-515	-936	-1,067	-489	0	0	0	0	0	0	-187
Percent Difference	0%	-1%	-3%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821	19,273
Existing - Alternative 1	10,891	16,809	33,311	45,873	52,934	44,225	30,280	15,515	11,984	17,719	13,701	22,821	18,973
Difference	0	-372	-1,284	-1,515	-1,226	-592	0	0	0	0	0	0	-299
Percent Difference	0%	-2%	-4%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-2%
Above Normal													
Existing - Base	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430	15,325
Existing - Alternative 1	9,877	12,018	18,828	34,695	41,038	39,259	19,128	12,828	11,814	18,508	14,754	17,429	15,046
Difference	0	-40	-448	-1,629	-1,829	-749	0	0	-1	0	0	0	-279
Percent Difference	0%	0%	-2%	-4%	-4%	-2%	0%	0%	0%	0%	0%	0%	-2%
Below Normal													
Existing - Base	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737	11,081
Existing - Alternative 1	9,114	11,650	12,715	19,046	25,206	23,171	15,308	10,496	11,507	18,684	13,981	10,737	10,936
Difference	0	-49	-186	-693	-967	-559	0	0	0	0	0	0	-145
Percent Difference	0%	0%	-1%	-4%	-4%	-2%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040	9,128
Existing - Alternative 1	8,797	10,264	11,800	14,071	21,977	18,932	9,957	8,685	10,655	14,790	10,143	10,040	9,028
Difference	0	-19	-81	-324	-904	-379	0	-1	0	0	0	0	-100
Percent Difference	0%	0%	-1%	-2%	-4%	-2%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241	7,035
Existing - Alternative 1	7,603	7,349	9,304	12,577	14,730	12,654	9,151	7,145	9,068	11,571	7,736	7,241	6,999
Difference	0	0	-28	-199	-333	-62	0	0	0	0	0	0	-37
Percent Difference	0%	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%	-1%

Sacramento River below Fremont Weir

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,867	45,100	57,729	61,959	57,591	41,031	20,423	13,312	19,786	15,641	24,263
20%	11,568	15,291	30,157	49,978	58,550	49,208	29,852	12,476	12,632	19,450	14,918	21,584
30%	10,868	14,177	20,670	38,268	45,964	41,694	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,419	16,827	30,451	40,042	32,187	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,470	14,375	20,927	29,701	24,238	11,811	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,242	12,138	16,320	24,021	20,650	10,617	8,809	10,372	17,239	13,030	11,383
70%	7,401	8,651	11,421	13,695	18,359	16,099	9,968	8,553	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,557	11,396	14,745	13,147	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,140	12,940	10,022	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430
Below Normal	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737
Dry	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241

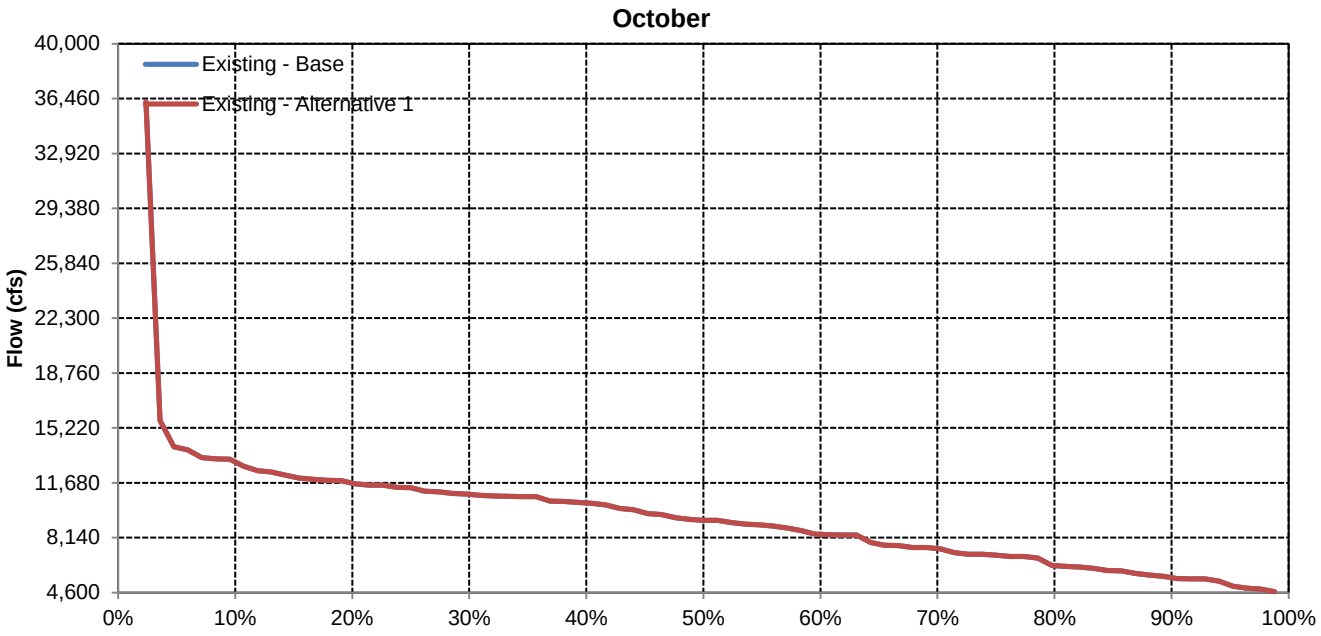
Existing - Alternative 1

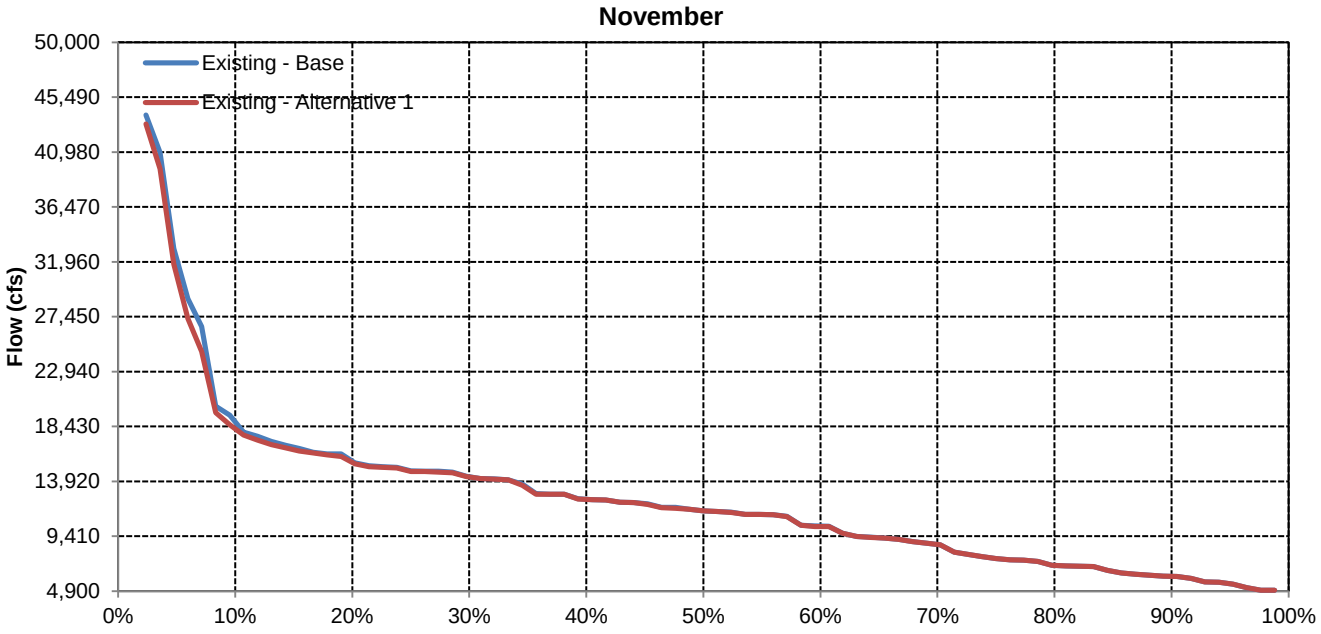
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,599	42,750	56,285	61,959	57,172	41,031	20,423	13,306	19,786	15,640	24,263
20%	11,568	15,215	28,123	48,490	57,226	48,065	29,853	12,476	12,632	19,450	14,919	21,584
30%	10,868	14,167	20,162	35,550	44,580	40,992	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,416	16,661	28,390	37,195	31,563	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,471	14,256	20,392	27,779	24,044	11,812	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,205	12,113	16,017	23,028	20,311	10,617	8,809	10,372	17,239	13,028	11,384
70%	7,401	8,651	11,420	13,644	18,113	16,061	9,968	8,552	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,555	11,376	14,656	13,096	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,136	12,908	10,018	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,377	19,211	27,598	33,813	29,578	18,487	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	16,809	33,311	45,873	52,934	44,225	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,018	18,828	34,695	41,038	39,259	19,128	12,828	11,814	18,508	14,754	17,429
Below Normal	9,114	11,650	12,715	19,046	25,206	23,171	15,308	10,496	11,507	18,684	13,981	10,737
Dry	8,797	10,264	11,800	14,071	21,977	18,932	9,957	8,685	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,304	12,577	14,730	12,654	9,151	7,145	9,068	11,571	7,736	7,241

Existing - Alternative 1 Minus Existing - Base

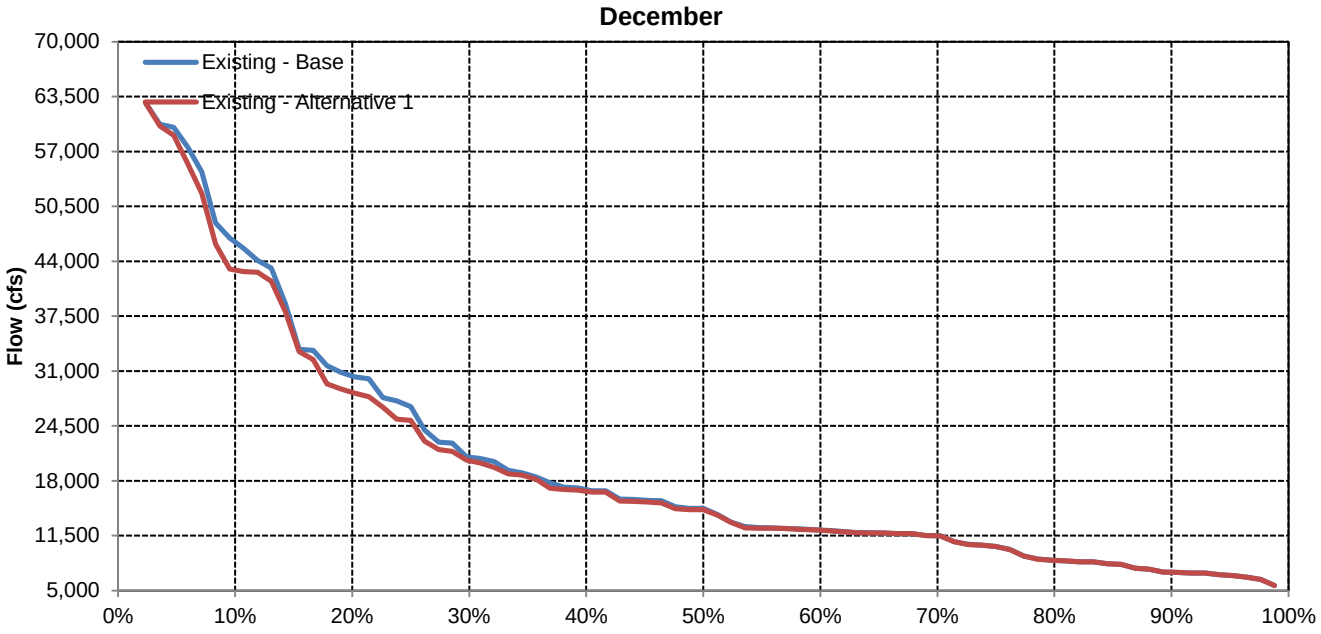
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-268	-2,351	-1,444	0	-420	0	0	-6	0	0	0
20%	0	-76	-2,034	-1,488	-1,325	-1,143	1	0	0	0	0	0
30%	0	-10	-508	-2,718	-1,384	-702	0	0	0	0	0	0
40%	0	-3	-166	-2,062	-2,847	-624	0	0	0	0	0	0
50%	0	0	-120	-535	-1,923	-194	0	0	0	0	0	0
60%	0	-37	-25	-303	-993	-339	0	0	0	0	-2	0
70%	-1	0	-2	-51	-246	-38	0	0	0	0	0	0
80%	0	0	-2	-20	-89	-51	0	0	0	0	0	0
90%	0	0	0	-4	-32	-3	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	-133	-515	-936	-1,067	-489	0	0	0	0	0	0
Water Year Types												
Wet	0	-372	-1,284	-1,515	-1,226	-592	0	0	0	0	0	0
Above Normal	0	-40	-448	-1,629	-1,829	-749	0	0	-1	0	0	0
Below Normal	0	-49	-186	-693	-967	-559	0	0	0	0	0	0
Dry	0	-19	-81	-324	-904	-379	0	-1	0	0	0	0
Critical	0	0	-28	-199	-333	-62	0	0	0	0	0	0

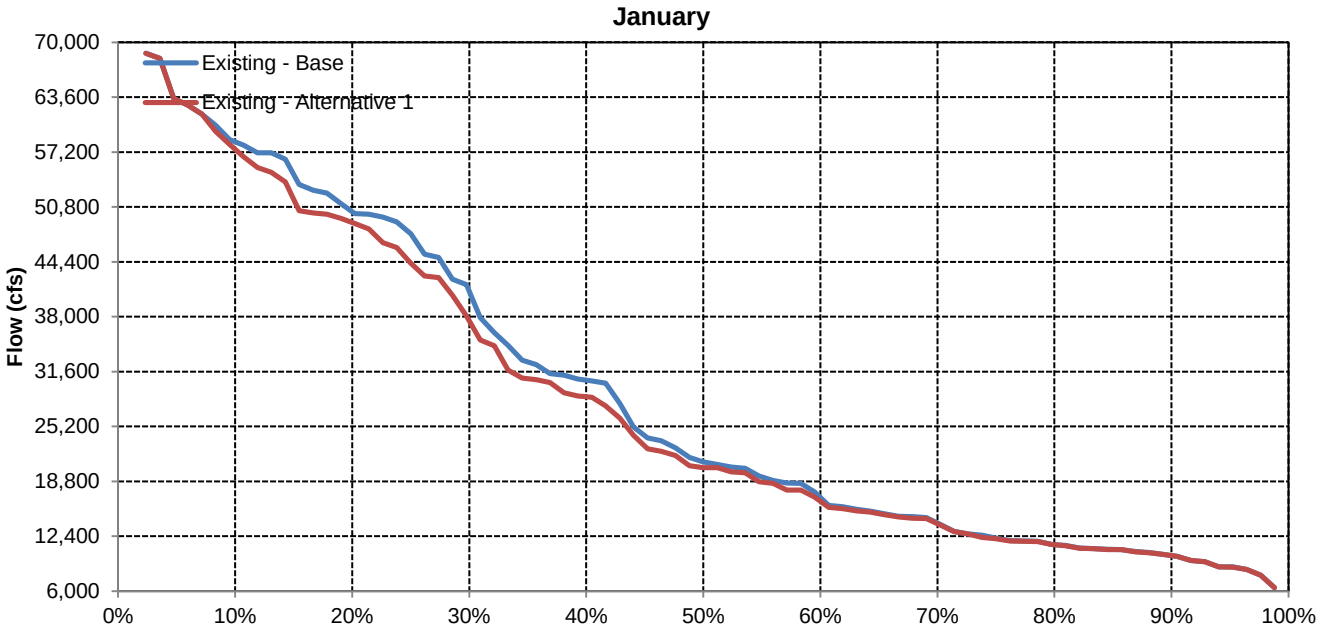
Sacramento River below Fremont Weir



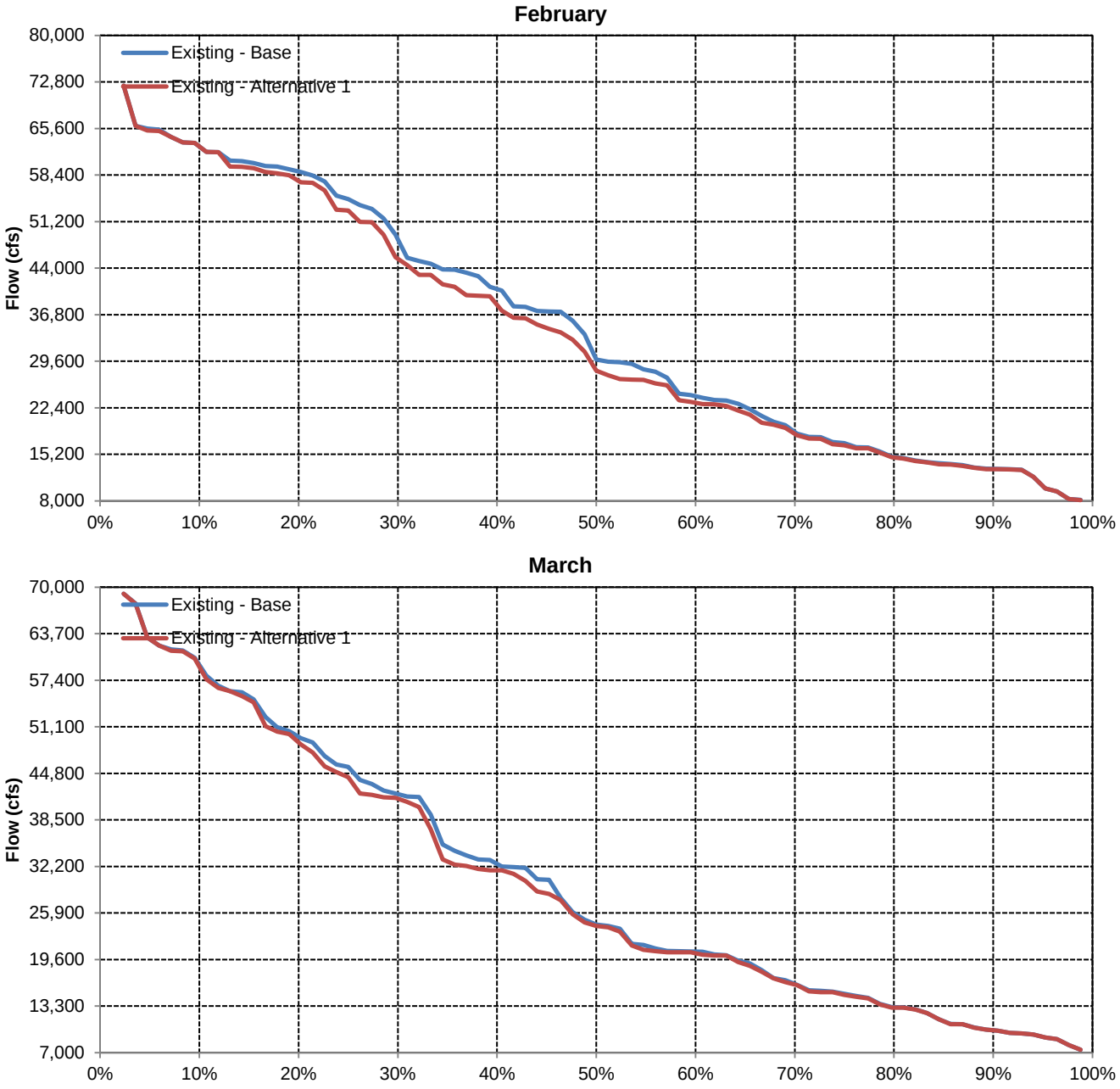


Sacramento River below Fremont Weir

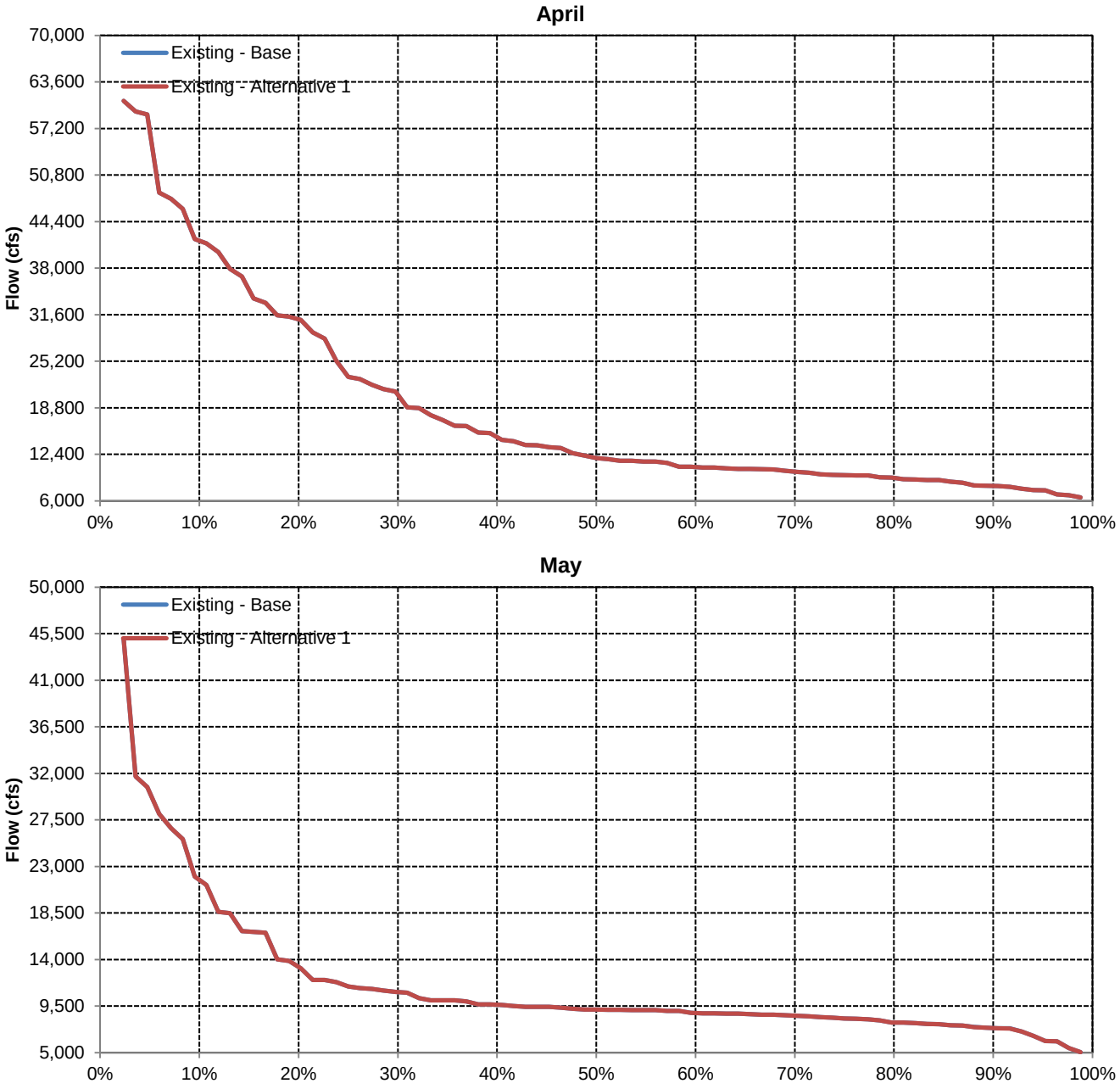




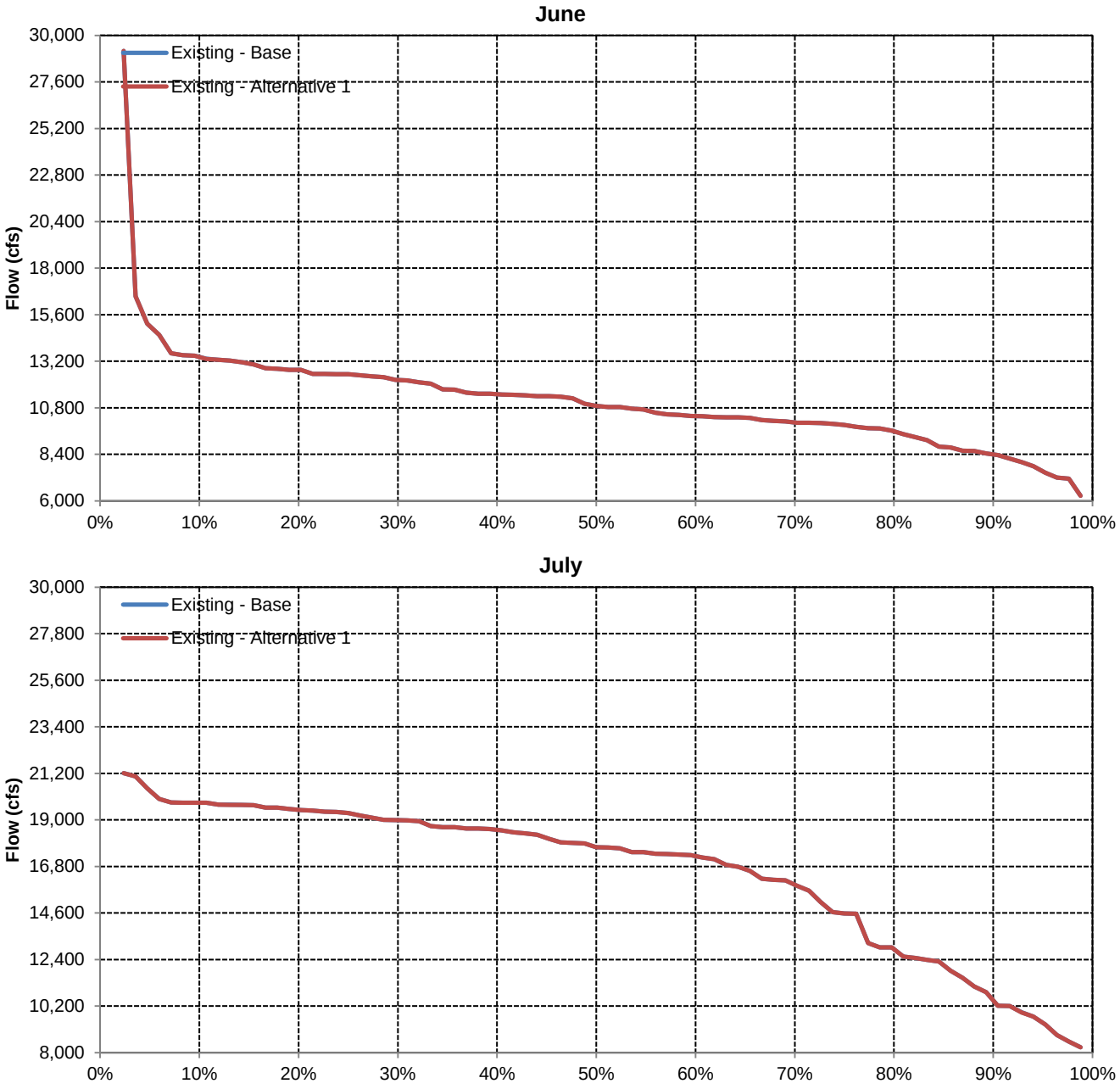
Sacramento River below Fremont Weir



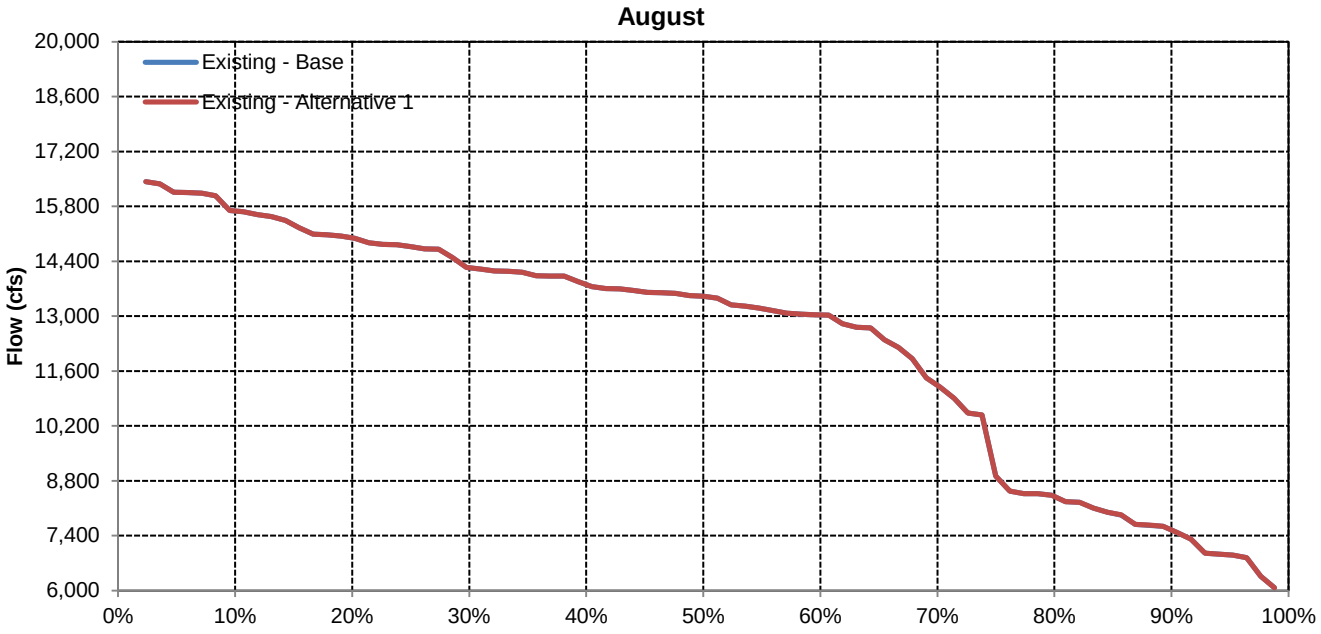
Sacramento River below Fremont Weir

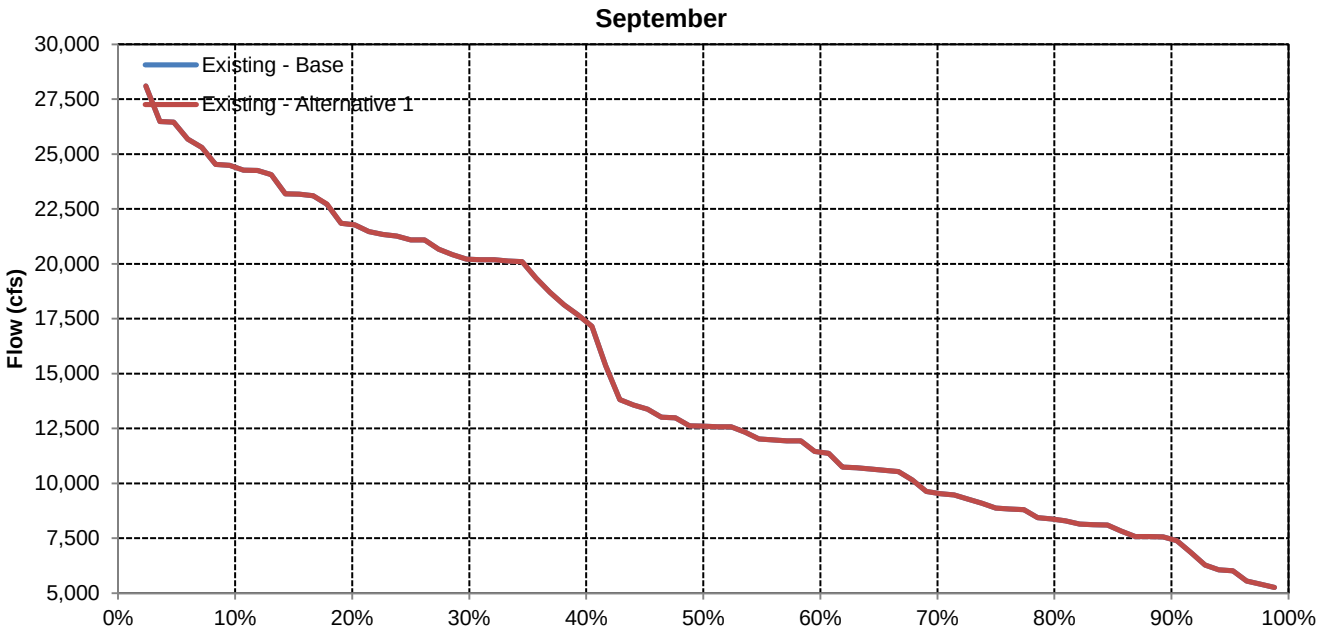


Sacramento River below Fremont Weir



Sacramento River below Fremont Weir





Long-Term and Water Year-Type Average of Trinity Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Existing - Alternative 1	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Existing - Alternative 1	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Existing - Alternative 1	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Existing - Alternative 1	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Existing - Alternative 1	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Existing - Alternative 1	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Trinity Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 1

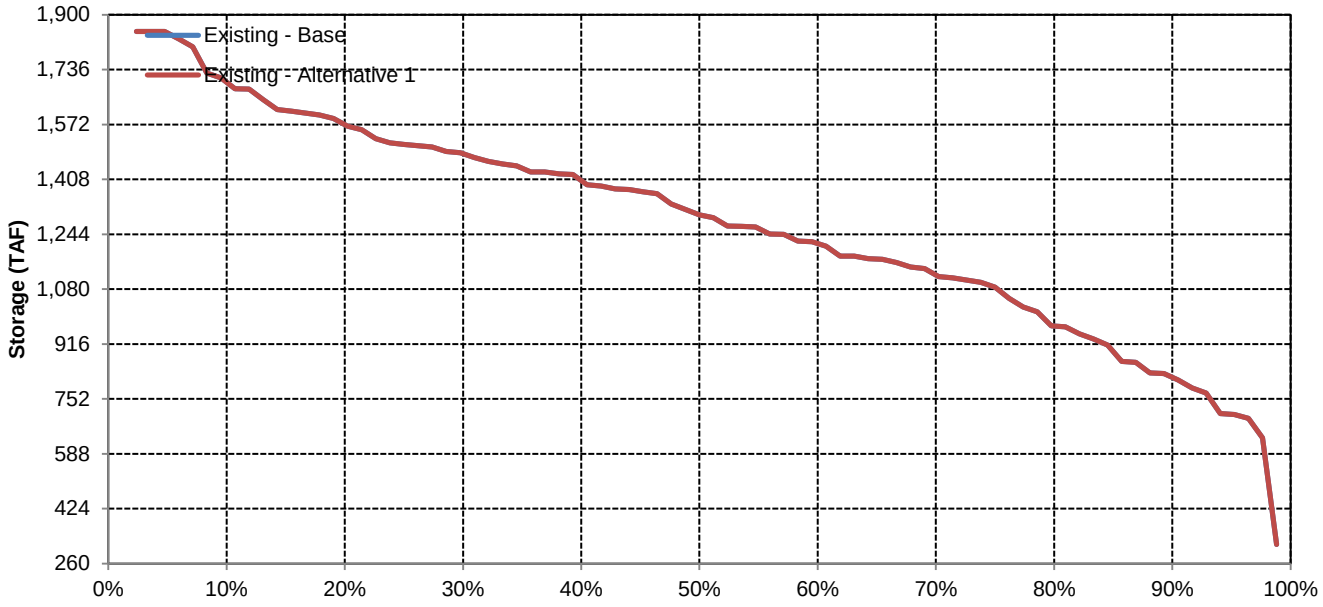
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 1 Minus Existing - Base

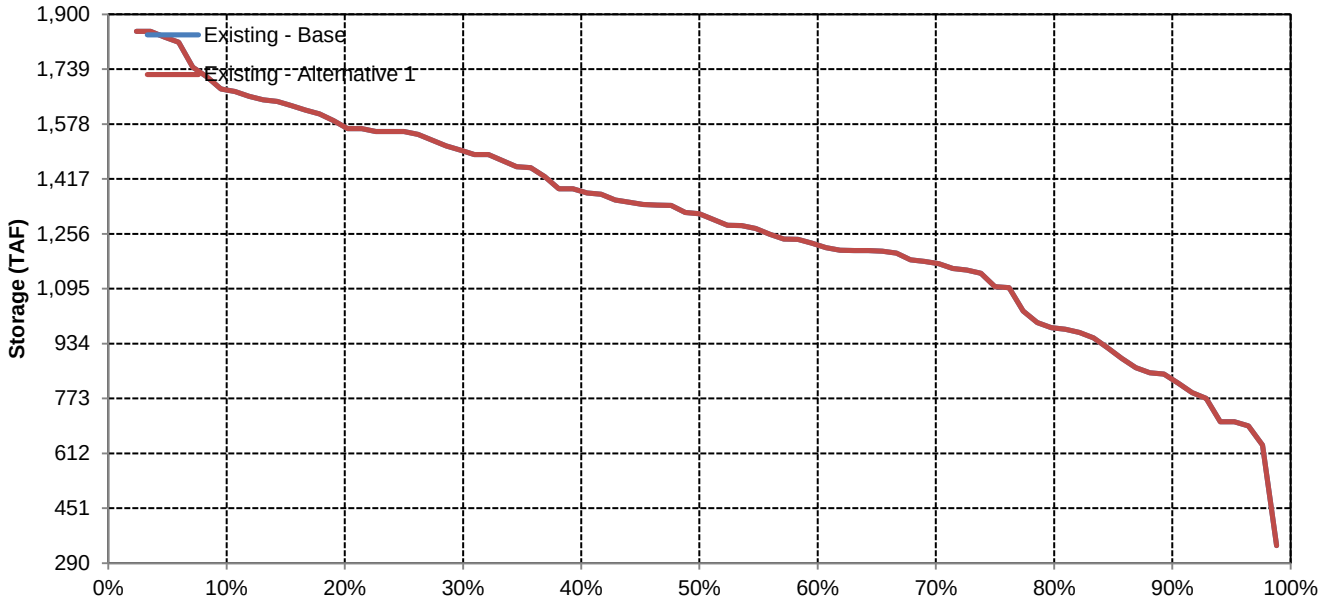
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Trinity Reservoir

October

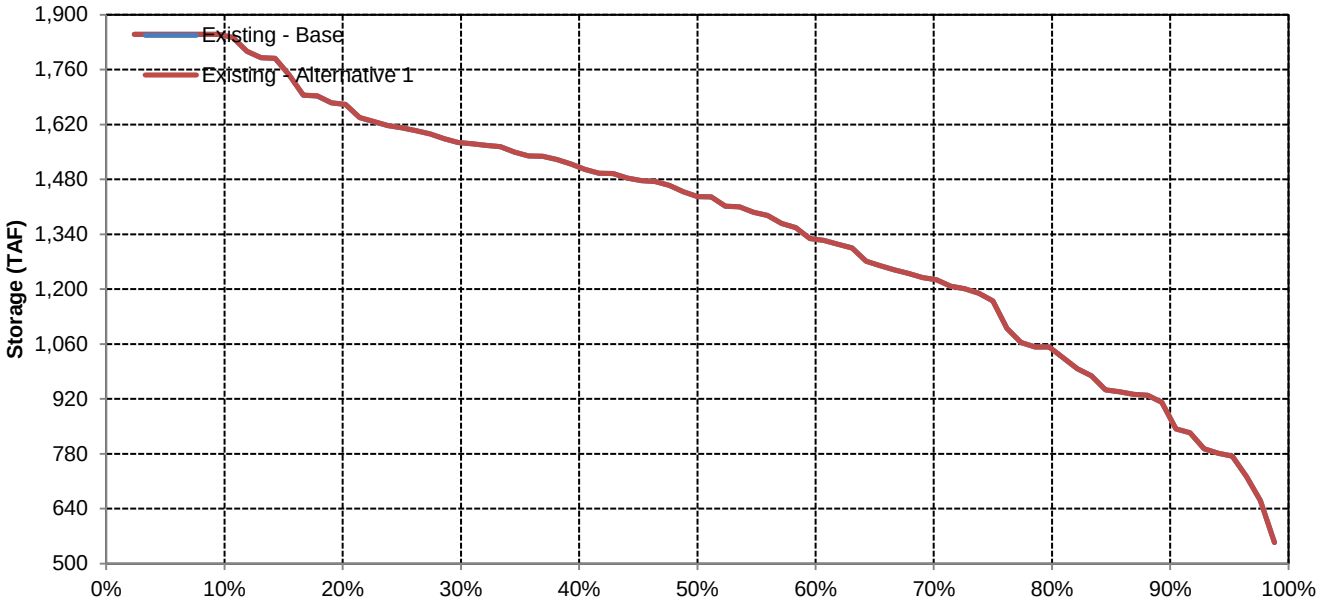


November

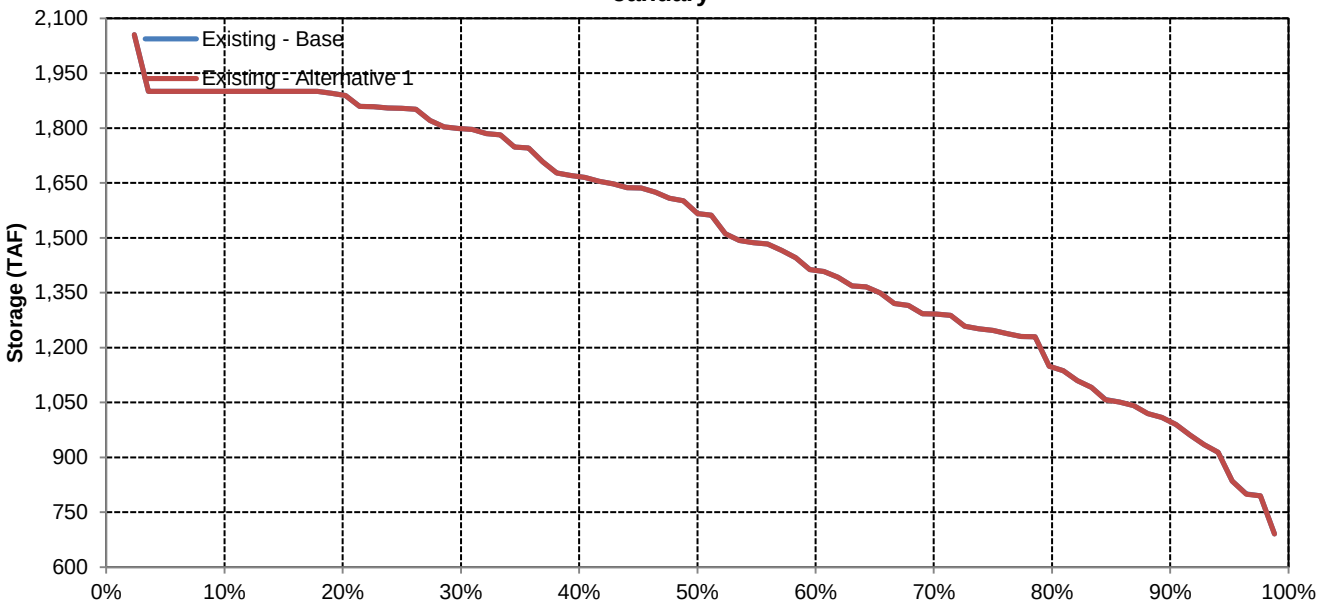


Trinity Reservoir

December

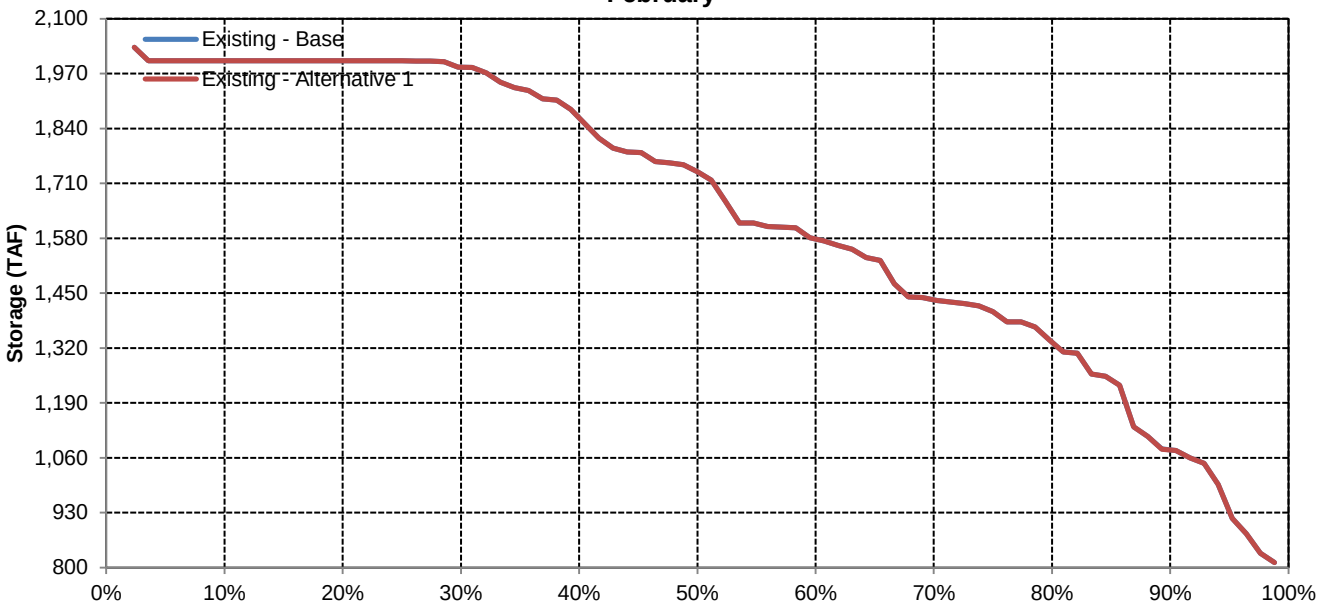


January

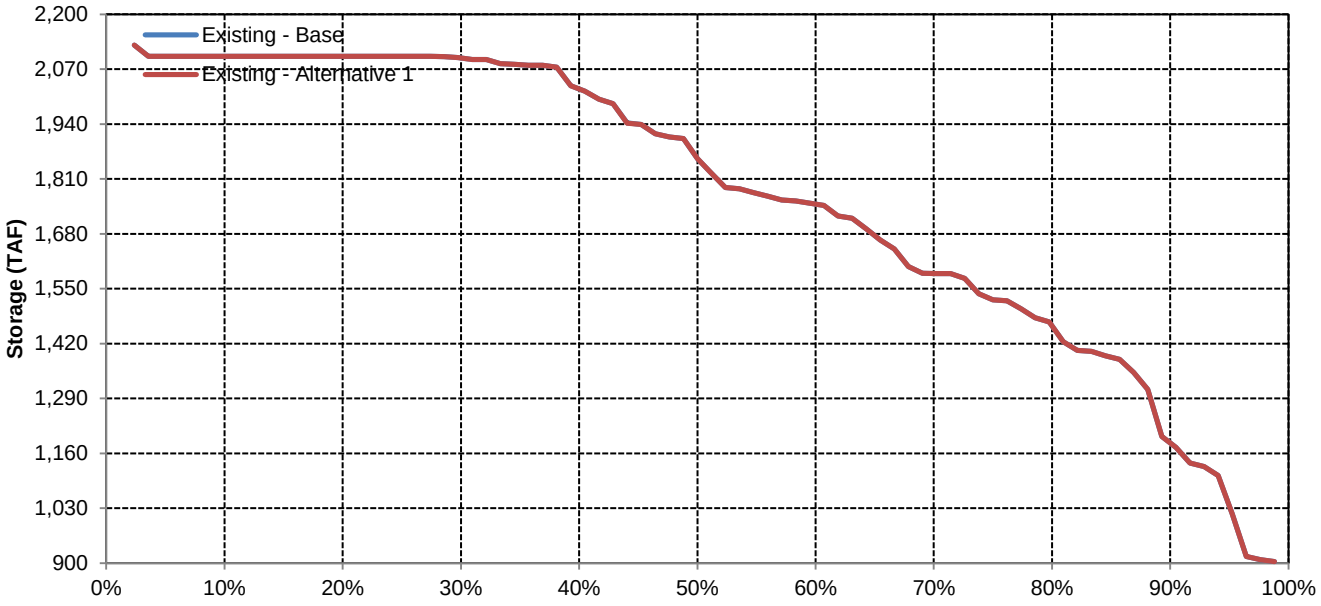


Trinity Reservoir

February

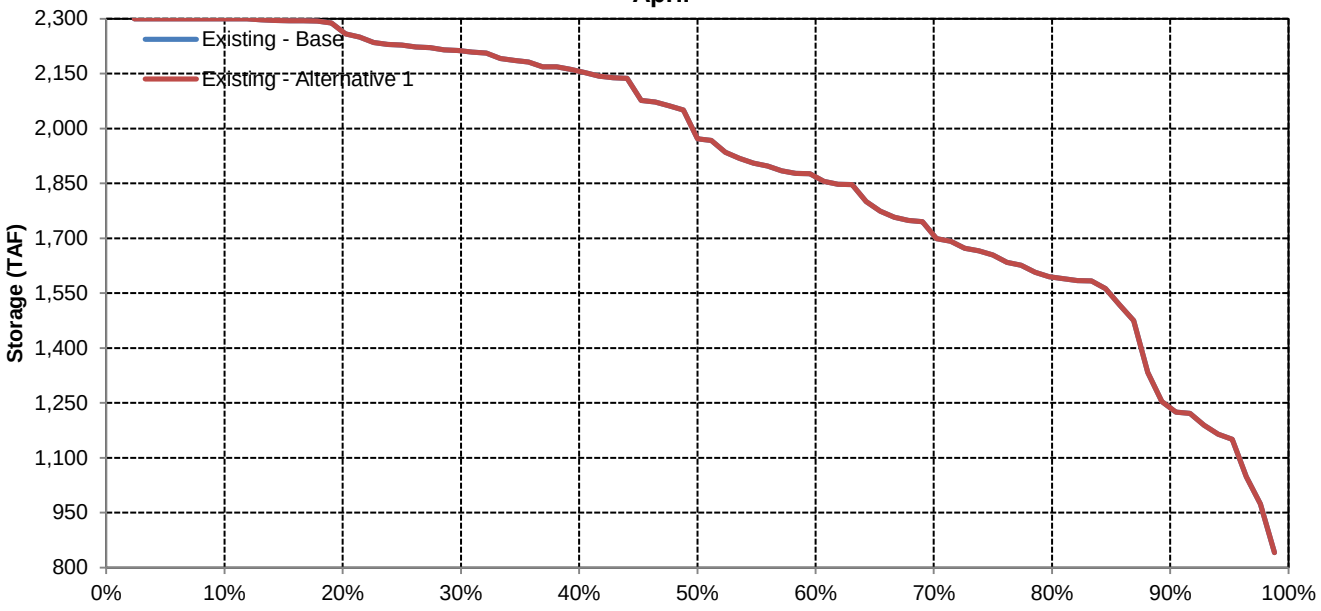


March

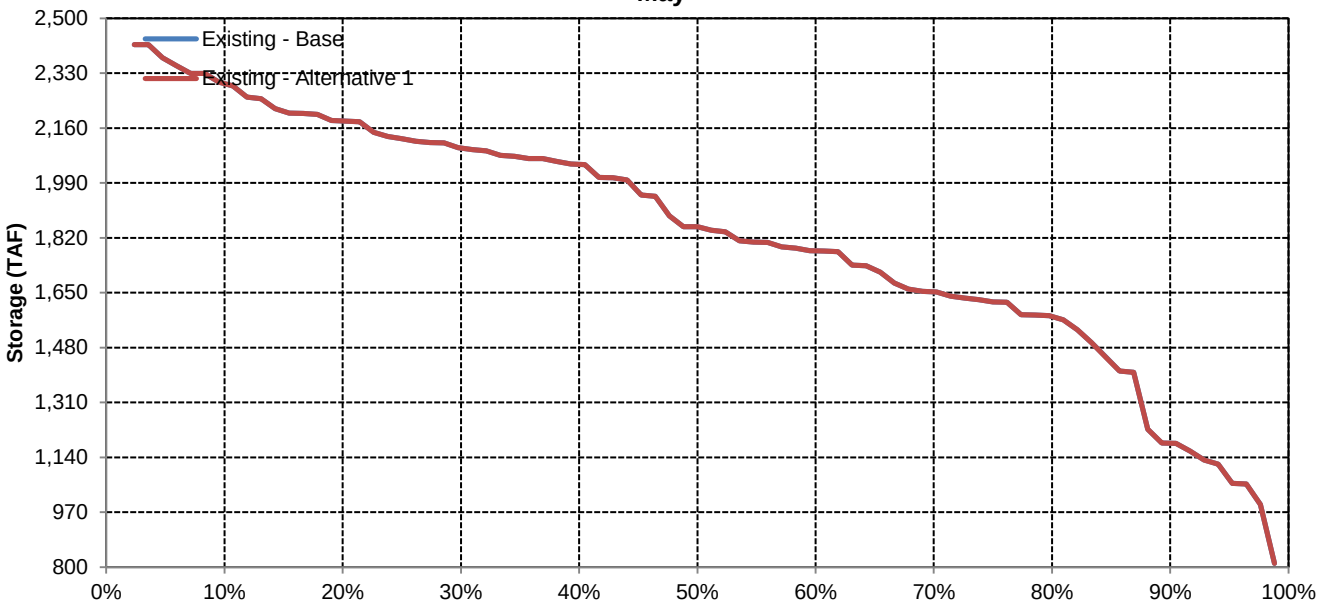


Trinity Reservoir

April

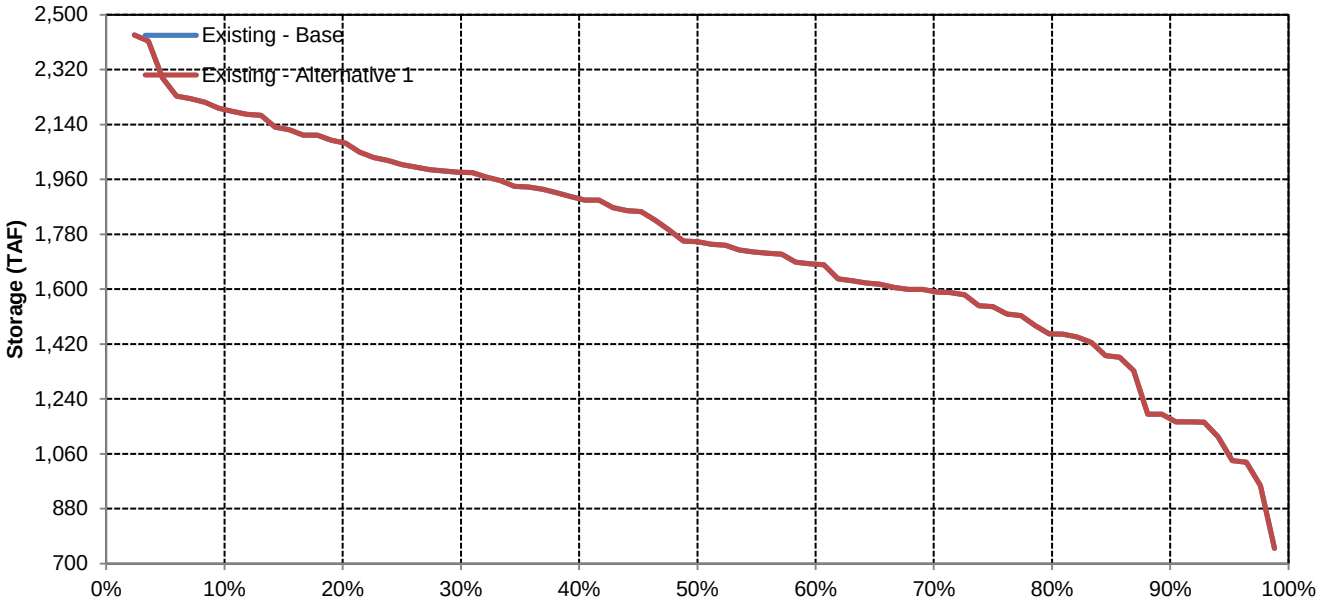


May

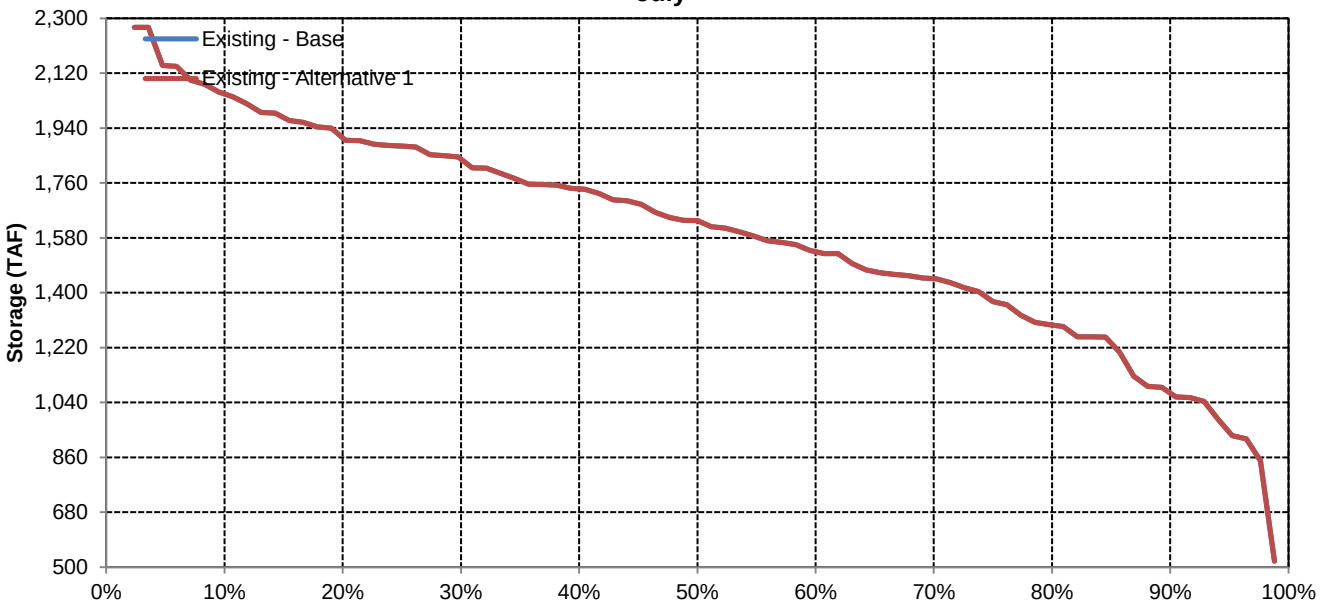


Trinity Reservoir

June

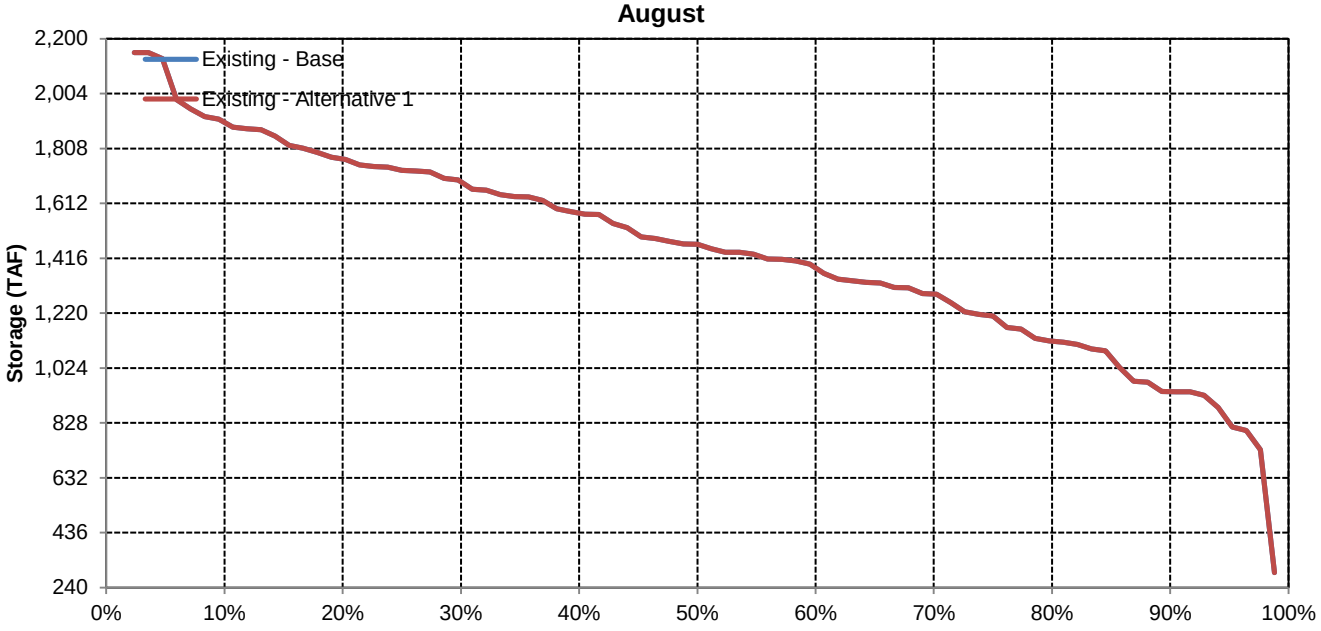


July

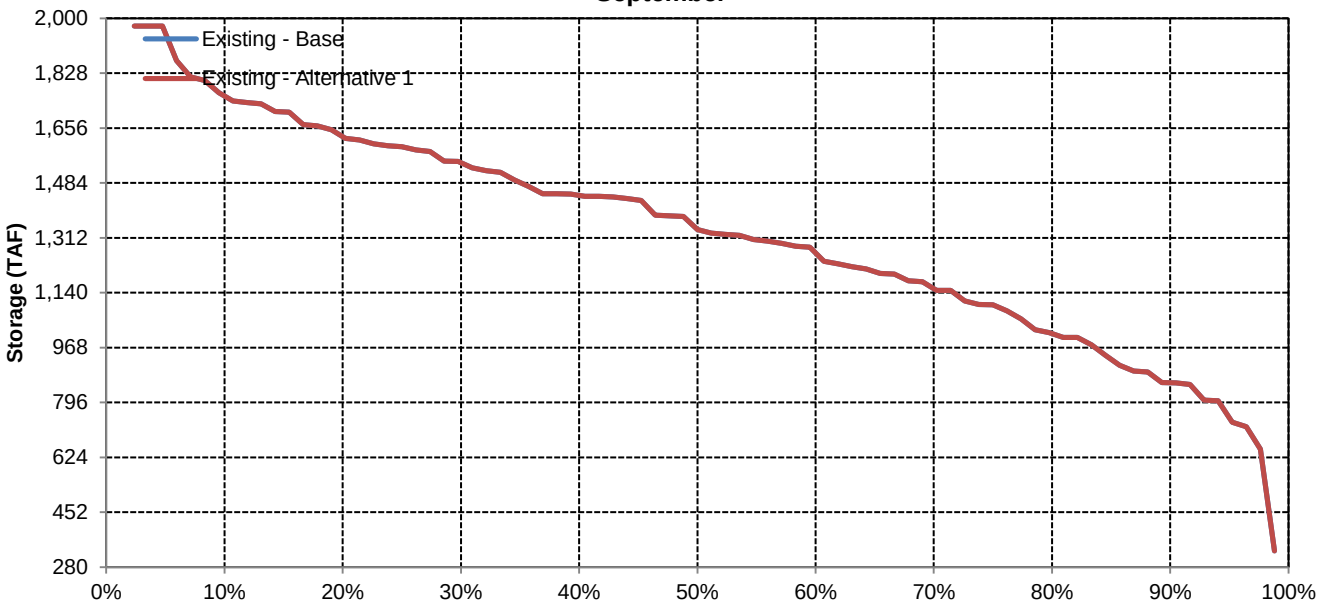


Trinity Reservoir

August



September



Long-Term and Water Year-Type Average of Shasta Reservoir Storage Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Existing - Alternative 1	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Existing - Alternative 1	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Existing - Alternative 1	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Existing - Alternative 1	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Existing - Alternative 1	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Existing - Alternative 1	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Shasta Reservoir Storage

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,296	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,461	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,490
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

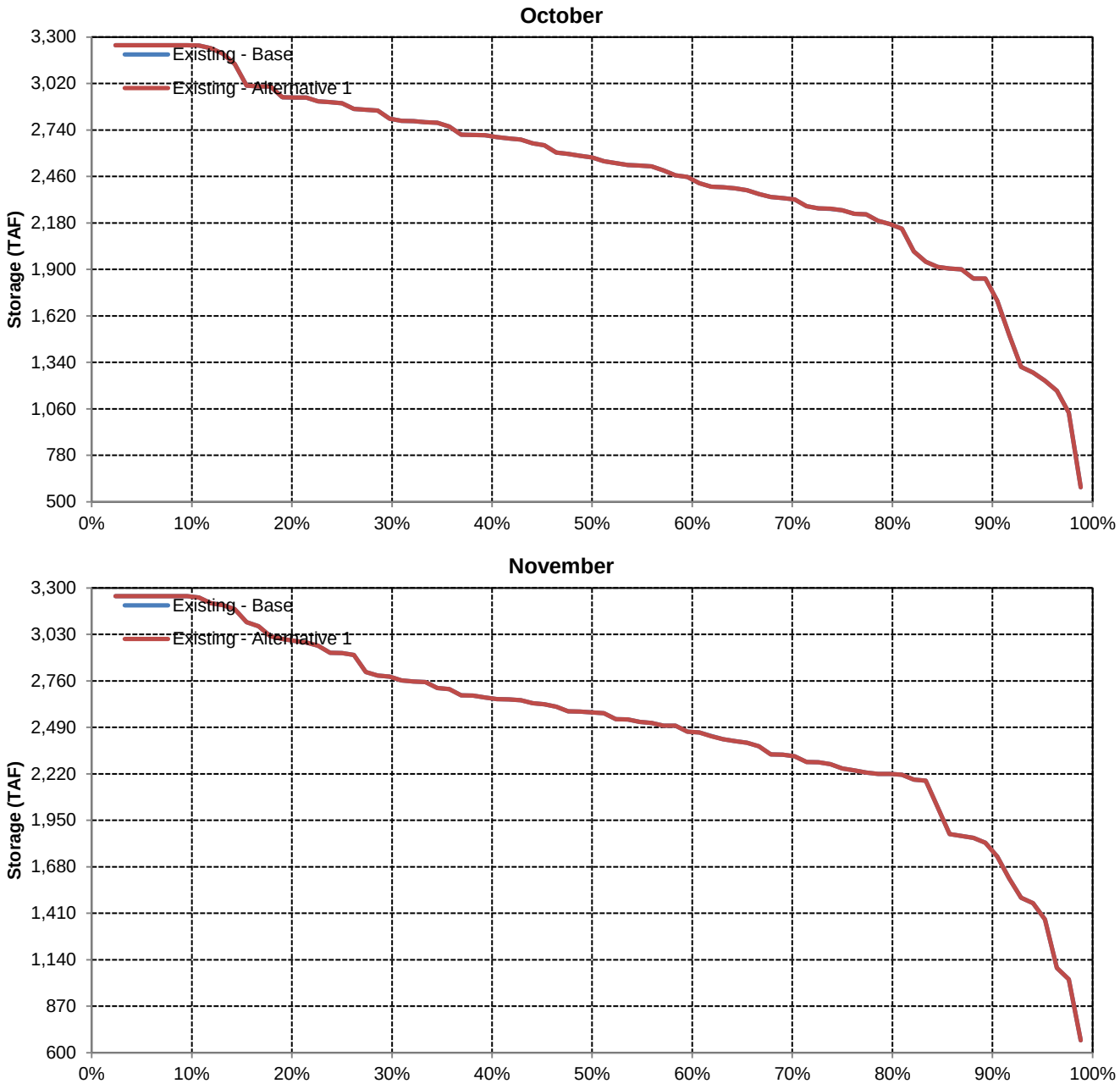
Existing - Alternative 1

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,297	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,462	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,491
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

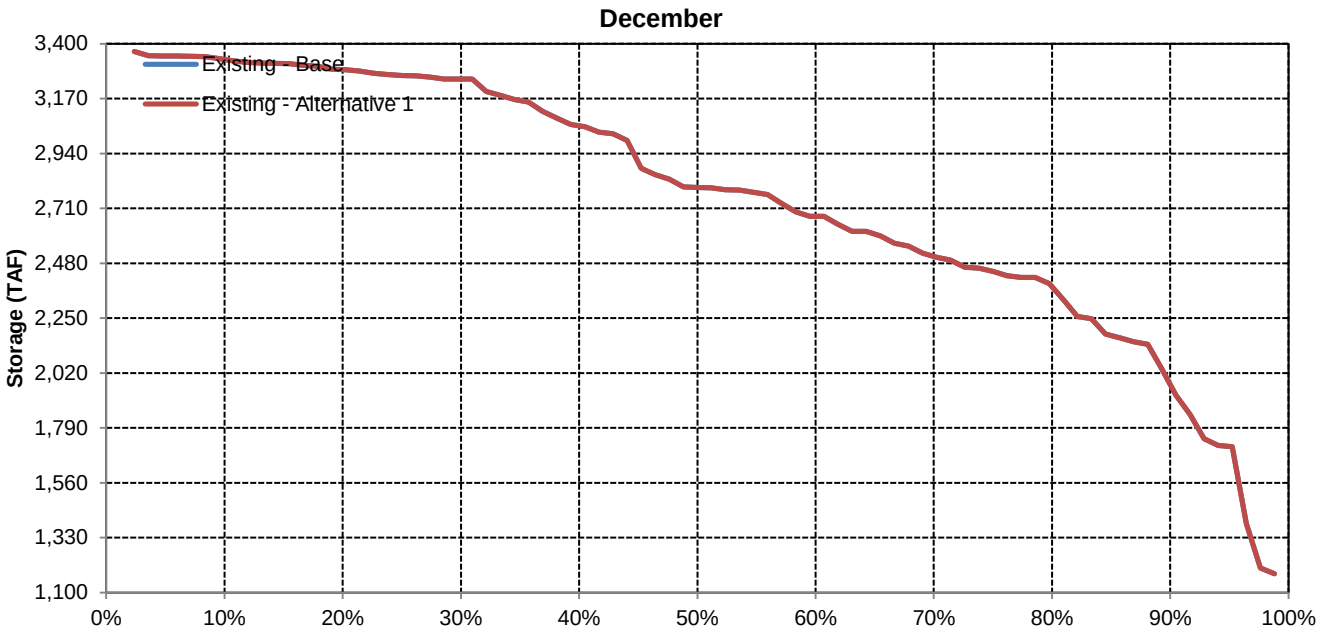
Existing - Alternative 1 Minus Existing - Base

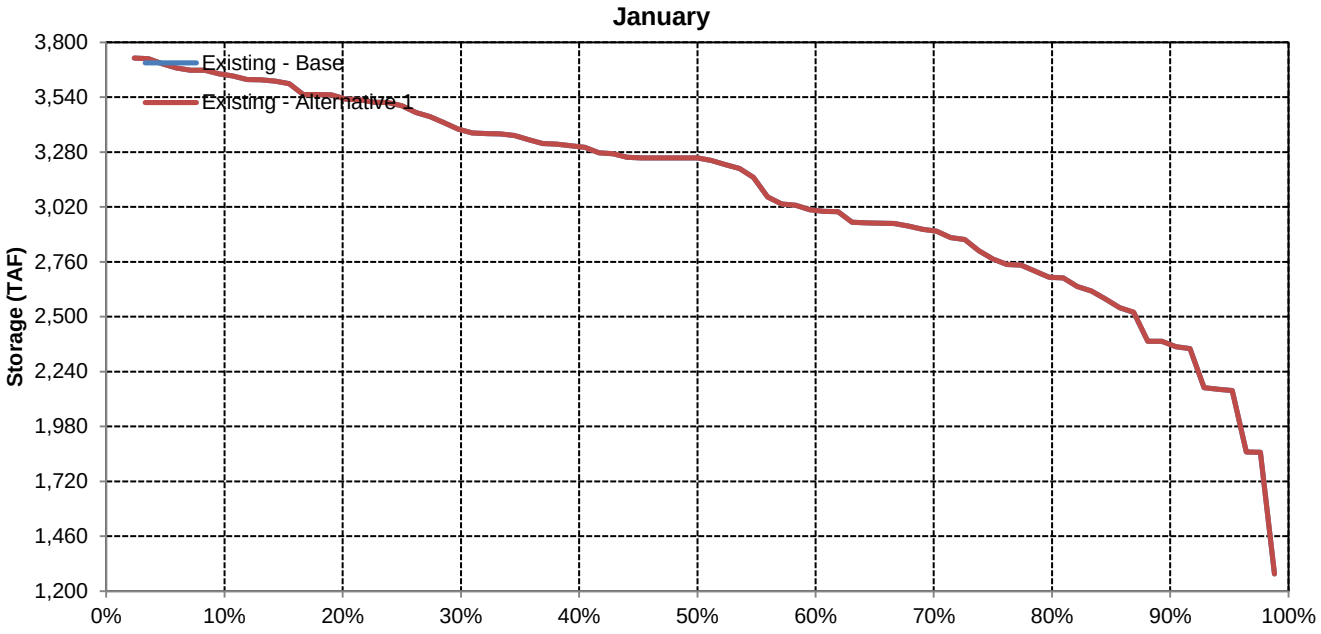
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Shasta Reservoir Storage

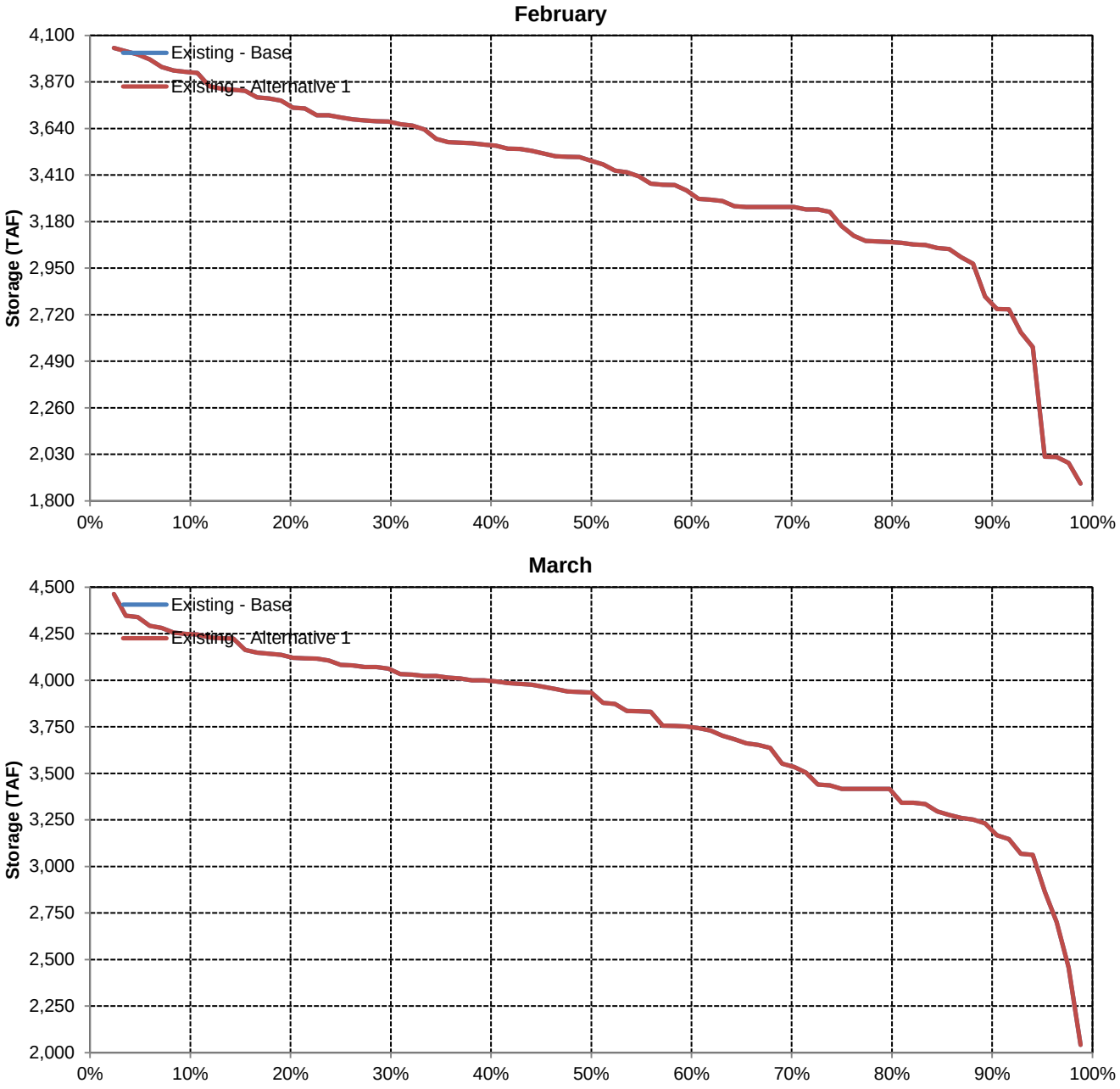


Shasta Reservoir Storage

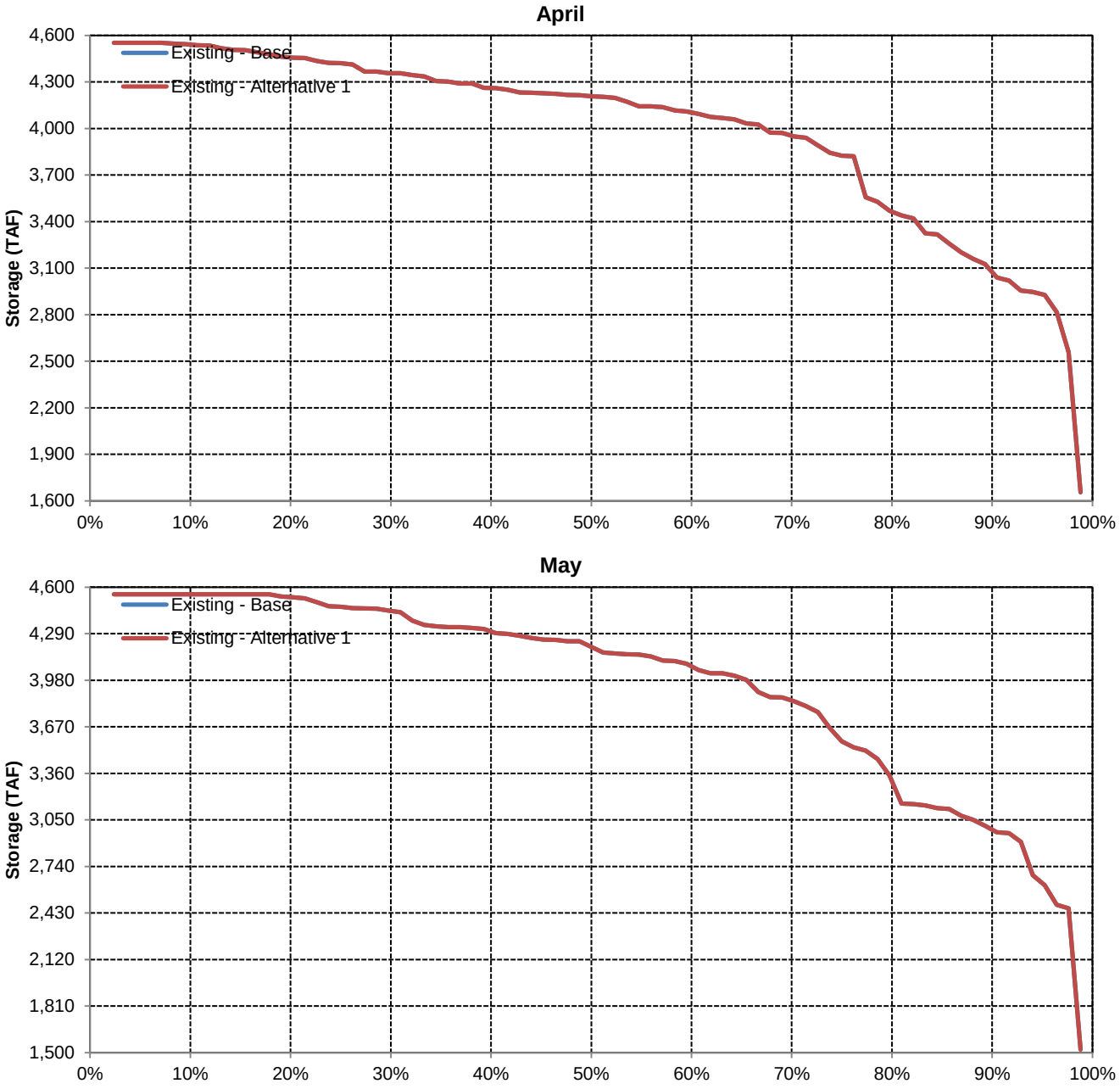




Shasta Reservoir Storage

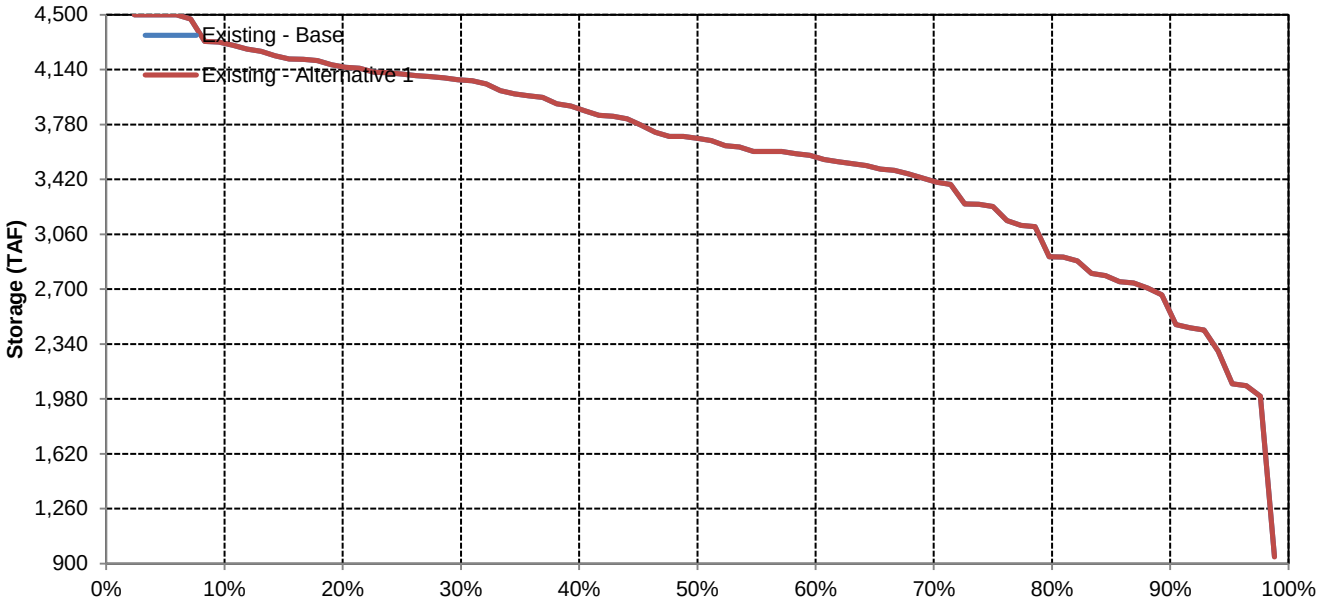


Shasta Reservoir Storage

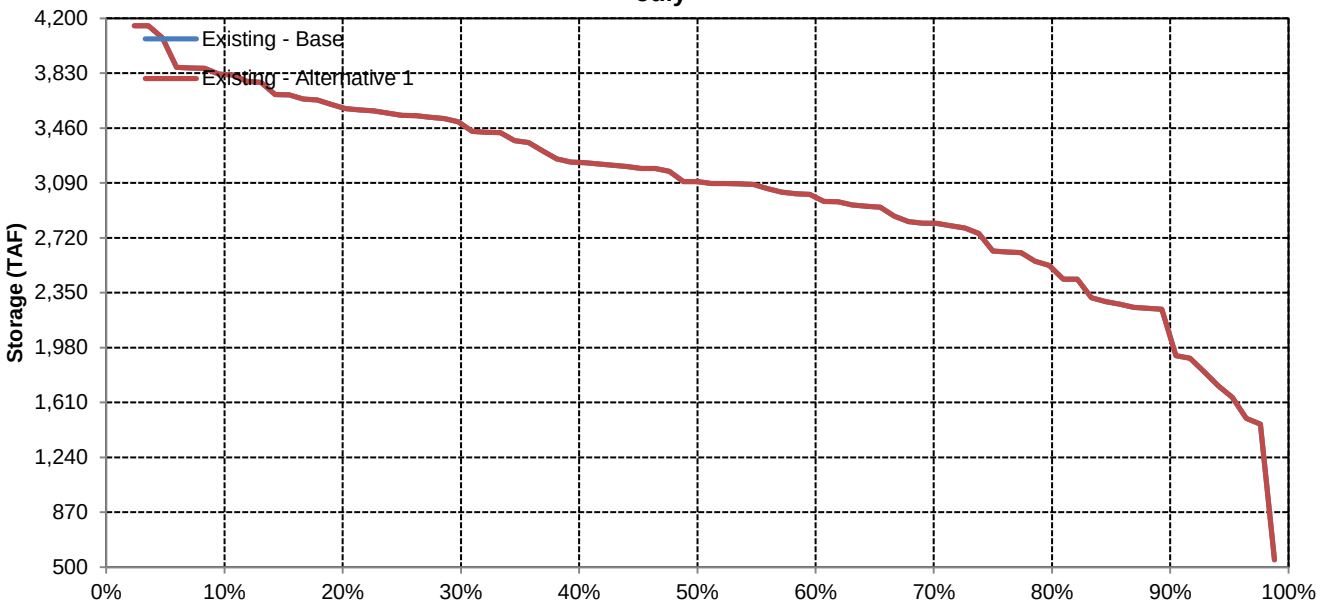


Shasta Reservoir Storage

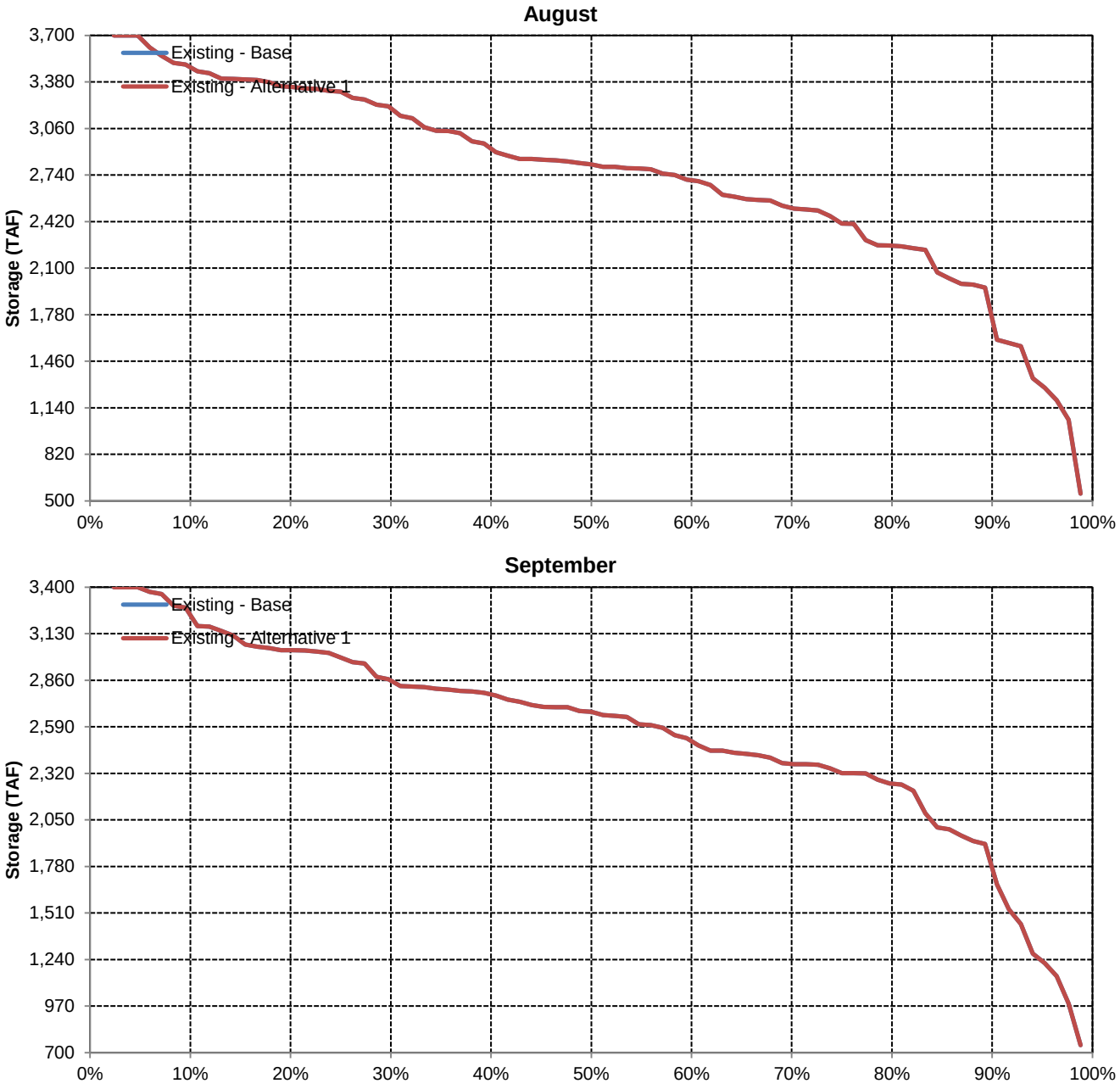
June



July



Shasta Reservoir Storage



Long-Term and Water Year-Type Average of Oroville Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Existing - Alternative 1	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Existing - Alternative 1	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Existing - Alternative 1	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Existing - Alternative 1	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Existing - Alternative 1	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Existing - Alternative 1	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Oroville Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,474	1,911	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,391
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,289
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 1

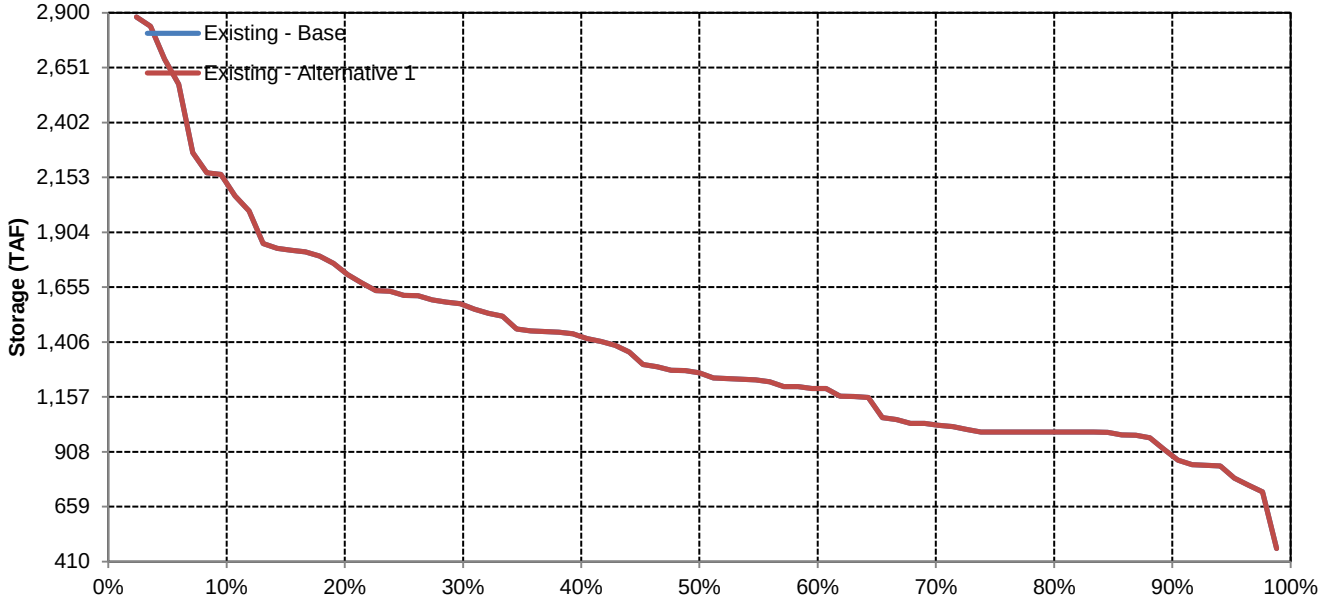
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,473	1,912	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,392
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,290
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 1 Minus Existing - Base

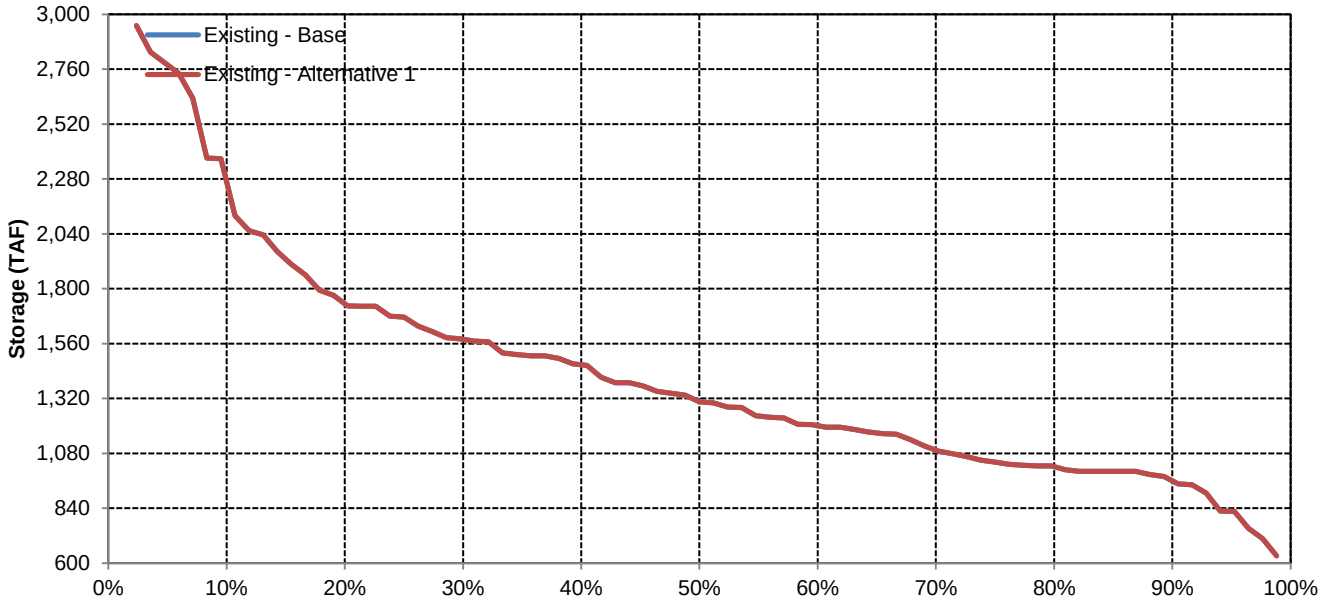
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Oroville Reservoir

October

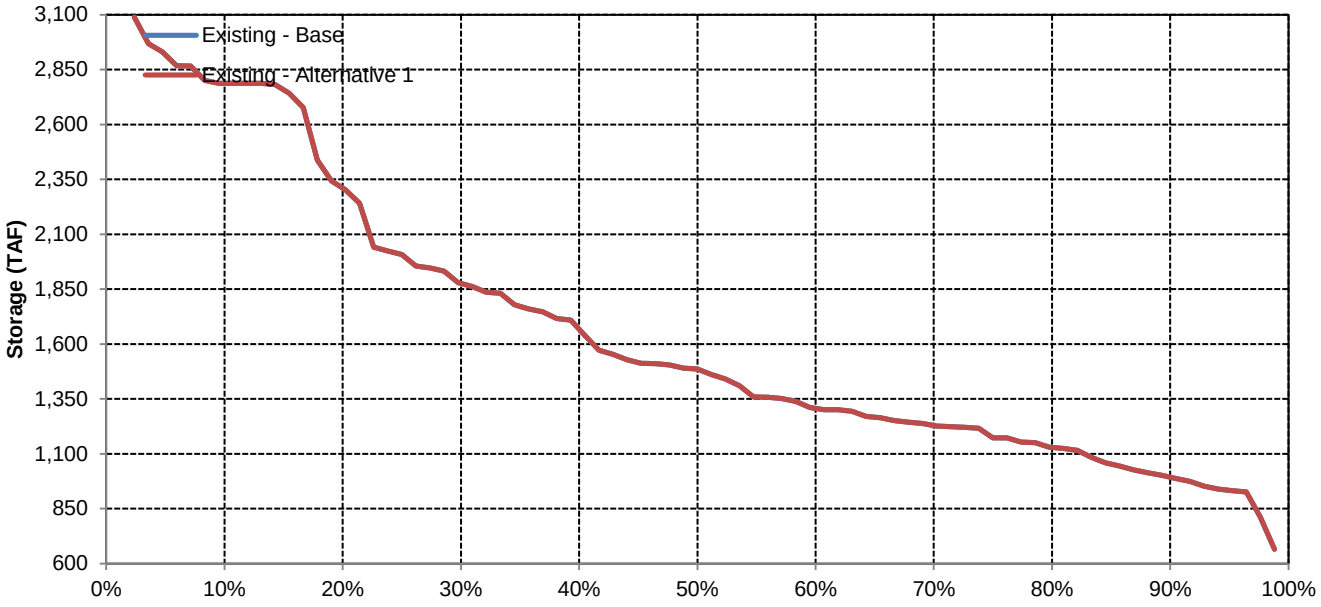


November

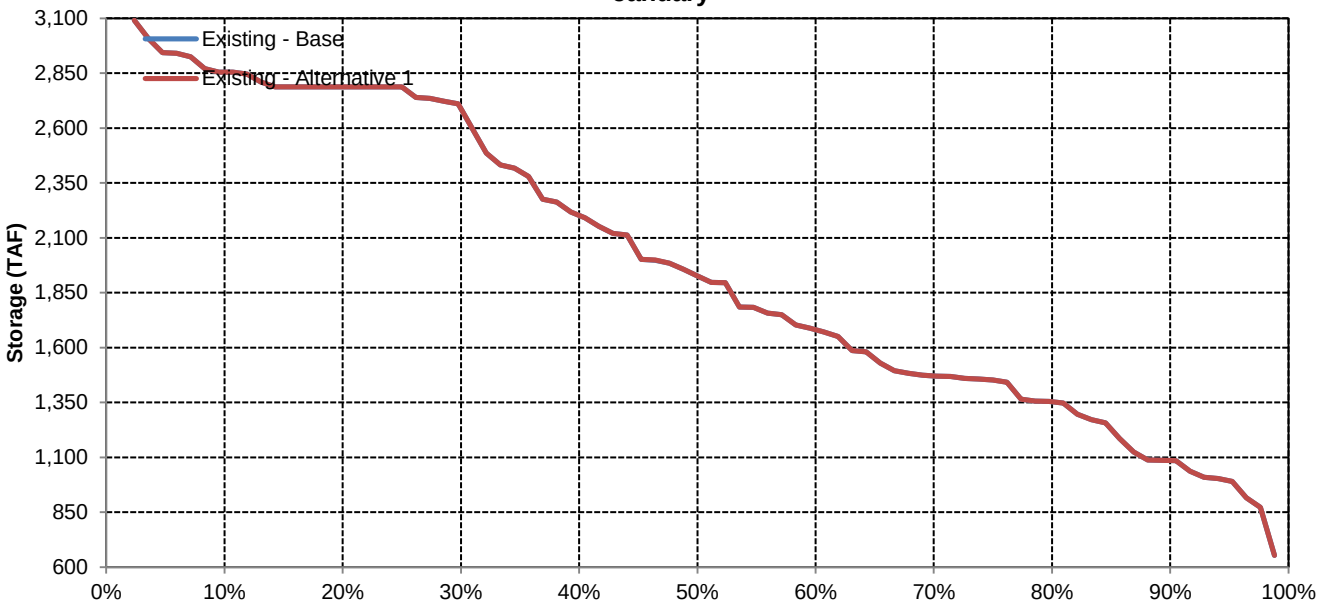


Oroville Reservoir

December

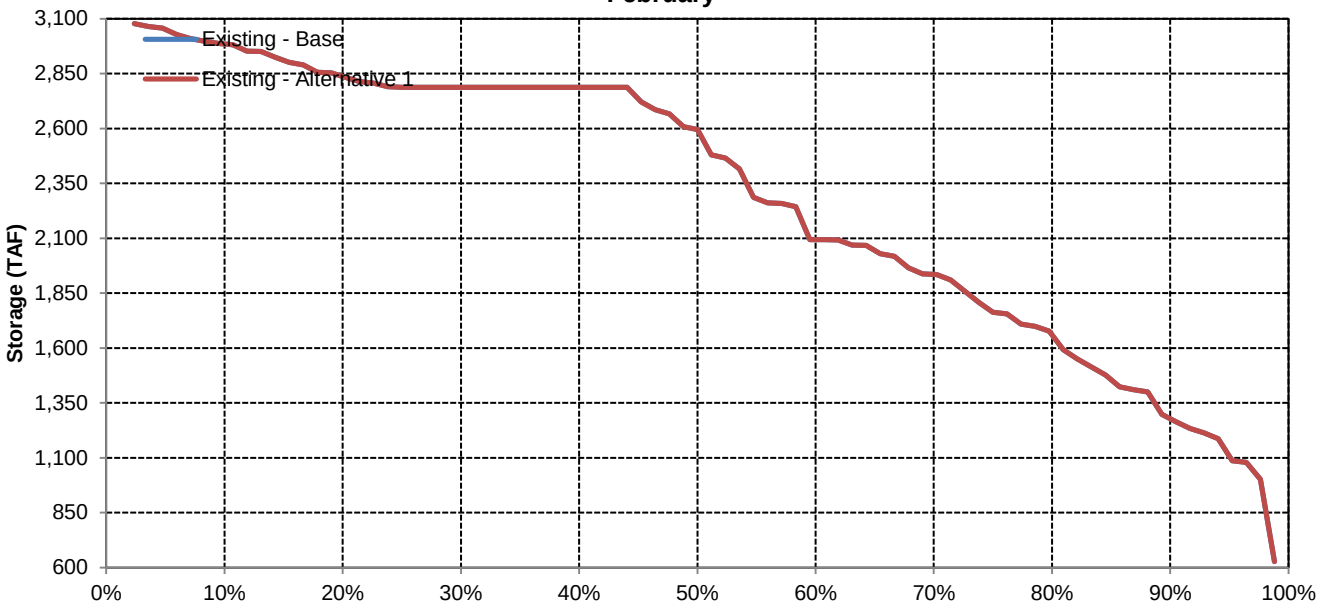


January

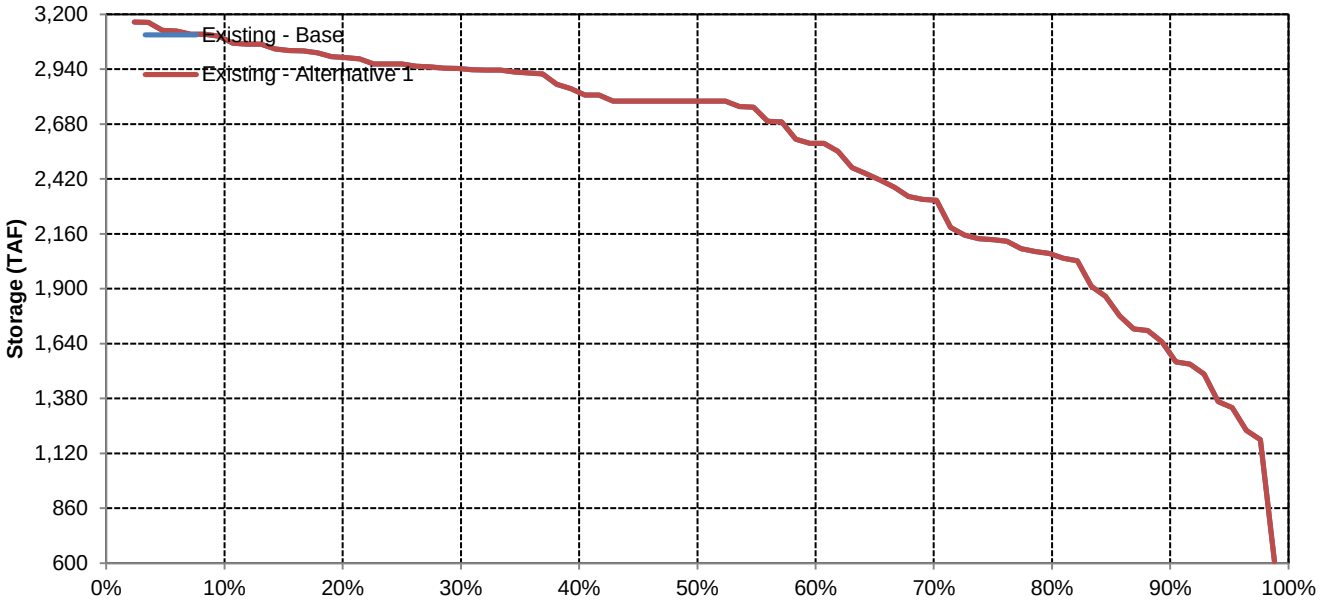


Oroville Reservoir

February

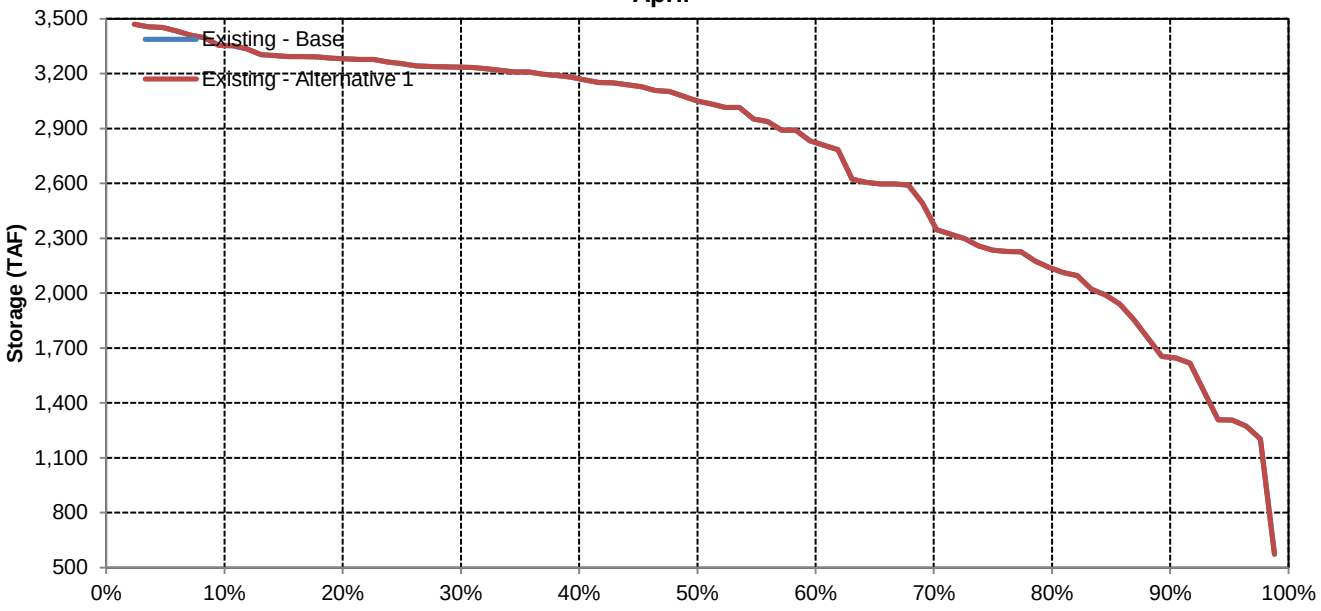


March

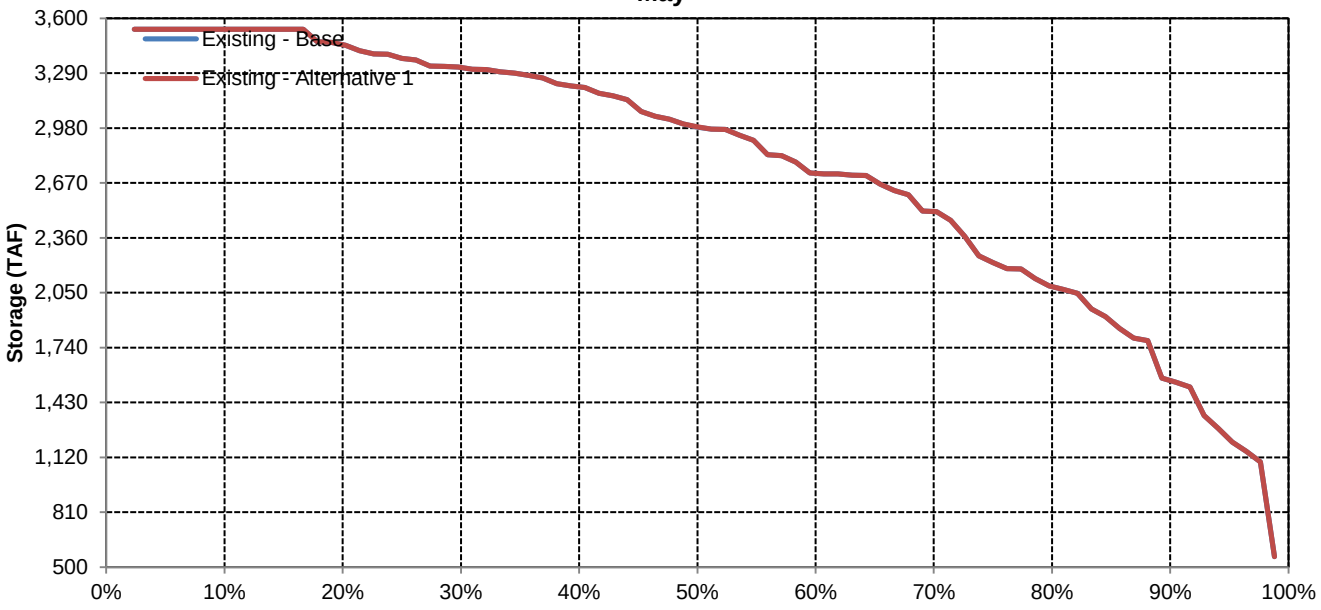


Oroville Reservoir

April

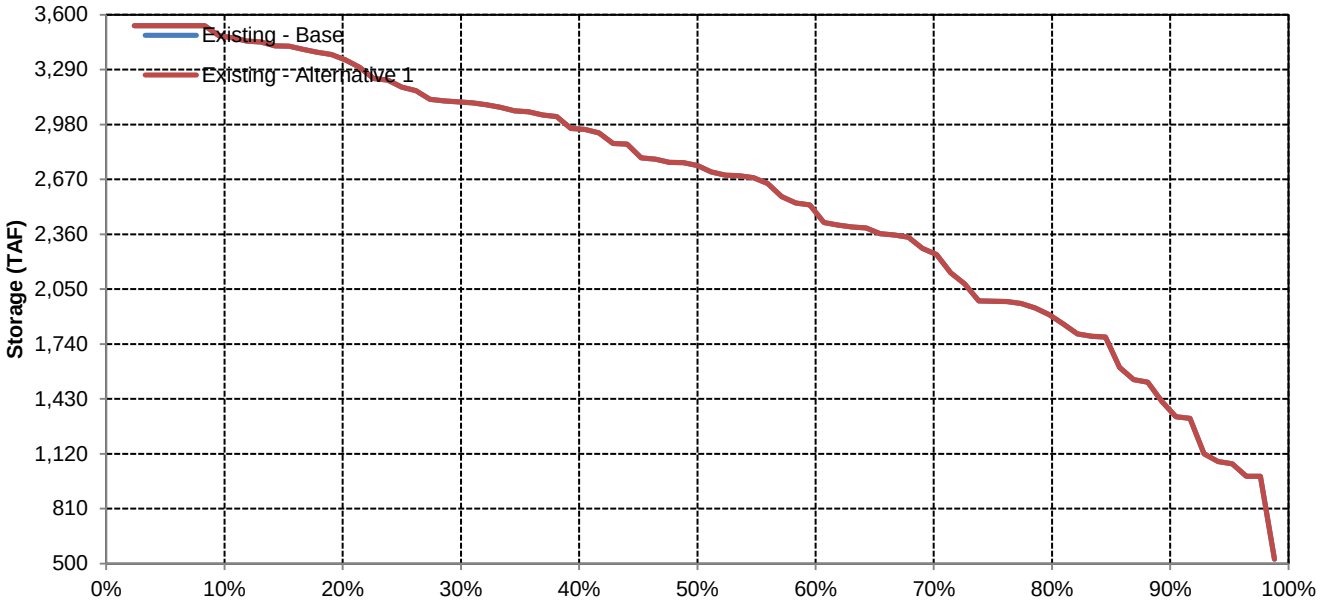


May

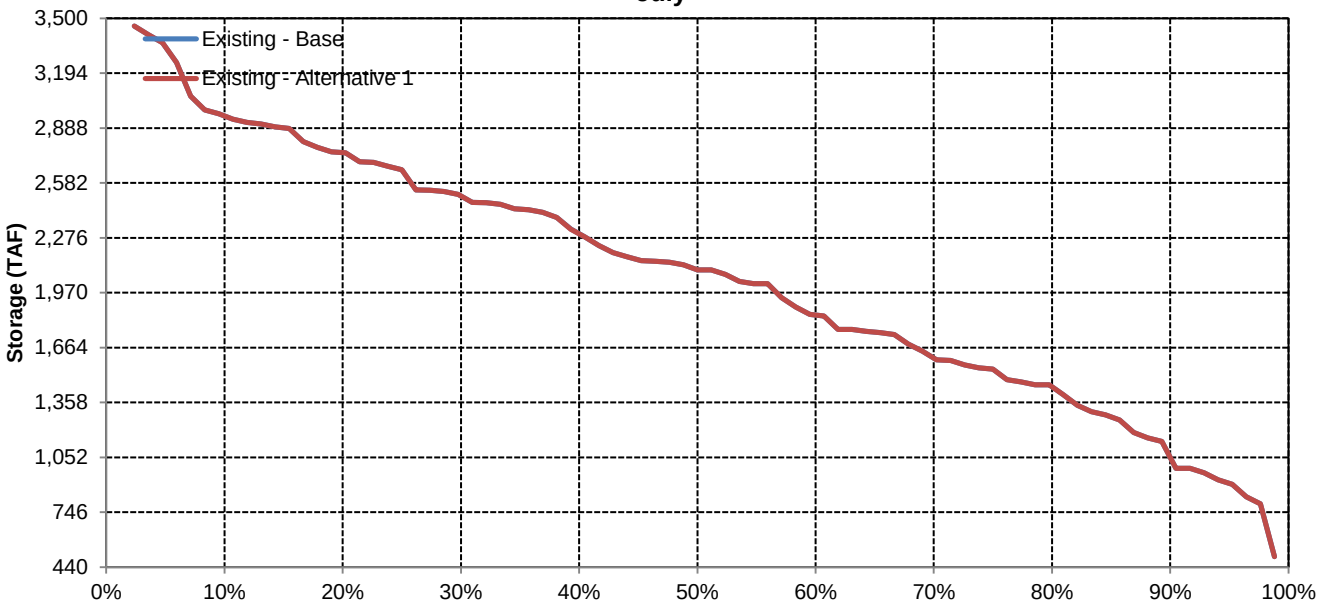


Oroville Reservoir

June

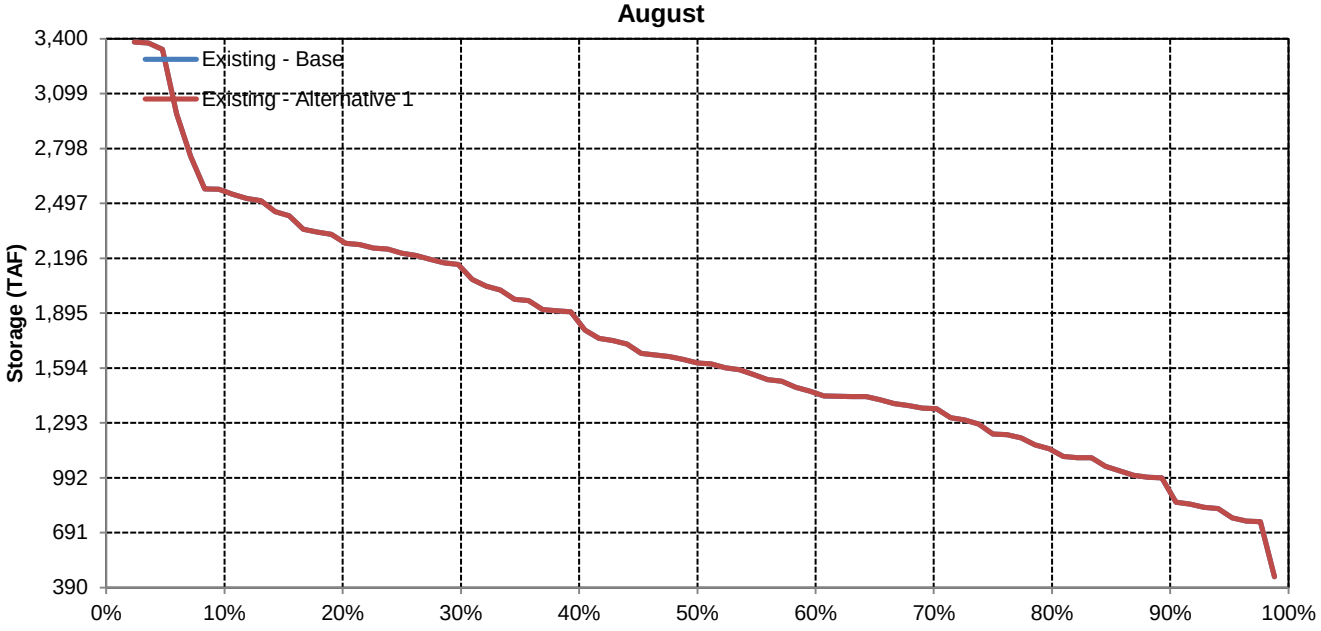


July

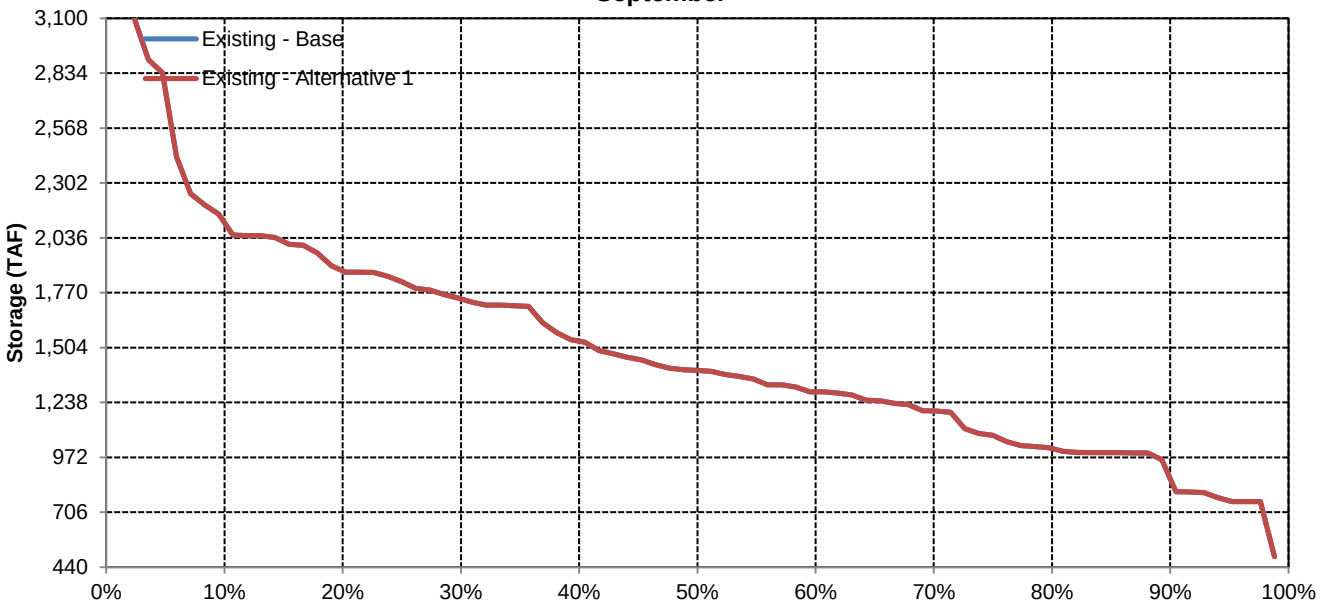


Oroville Reservoir

August



September



Long-Term and Water Year-Type Average of Folsom Reservoir Under Existing - Base and Existing - Alternative 1

Analysis Period	October	November	December	January	February	March	April	May	June	July	August	September
						Average Storage (TAF)						
						Long-Term						
Full Simulation Period												
Existing - Base	391	398	446	474	495	597	712	766	699	522	477	427
Existing - Alternative 1	391	398	446	474	495	597	712	766	699	522	477	427
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	405	431	511	520	508	626	766	897	851	676	622	507
Existing - Alternative 1	405	431	511	520	508	626	766	897	851	676	622	507
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	406	399	470	532	548	643	777	842	775	540	504	455
Existing - Alternative 1	406	399	470	532	548	643	777	842	775	540	504	455
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	397	414	447	500	536	627	774	792	716	480	445	433
Existing - Alternative 1	397	414	447	500	536	627	774	792	716	480	445	433
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	365	367	398	418	479	593	688	698	596	438	387	376
Existing - Alternative 1	365	367	398	418	479	593	688	698	596	438	387	376
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	372	347	345	357	380	453	480	471	418	351	313	291
Existing - Alternative 1	372	347	345	357	380	453	480	471	418	351	313	291
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Folsom Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 1

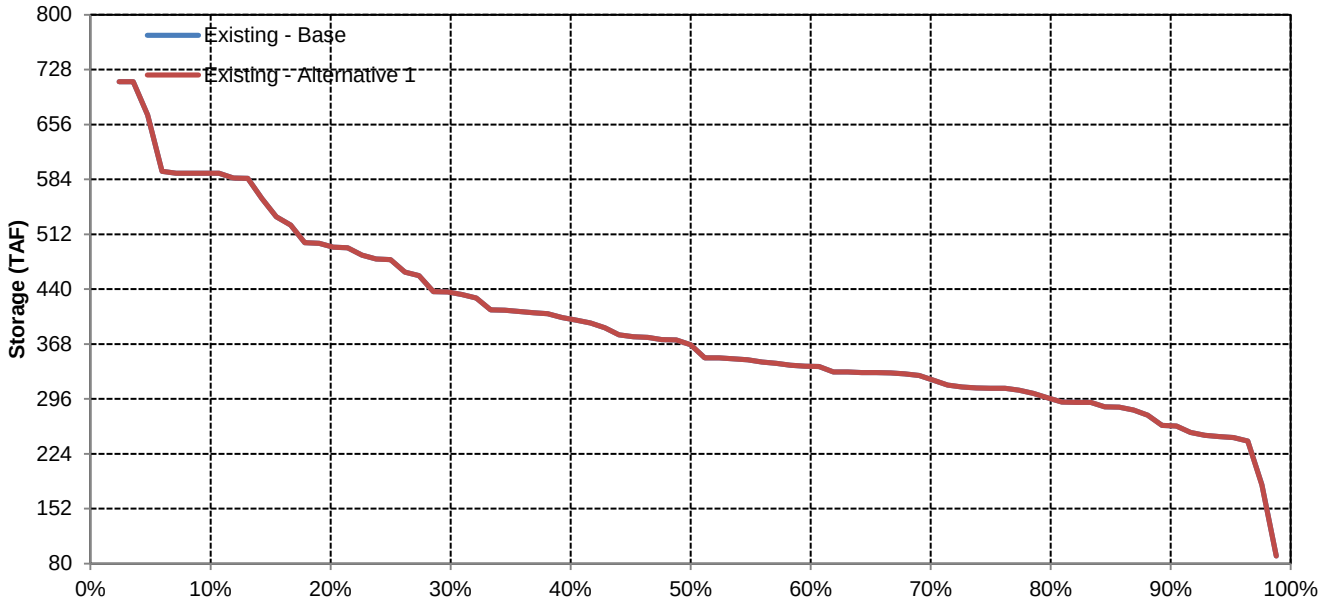
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 1 Minus Existing - Base

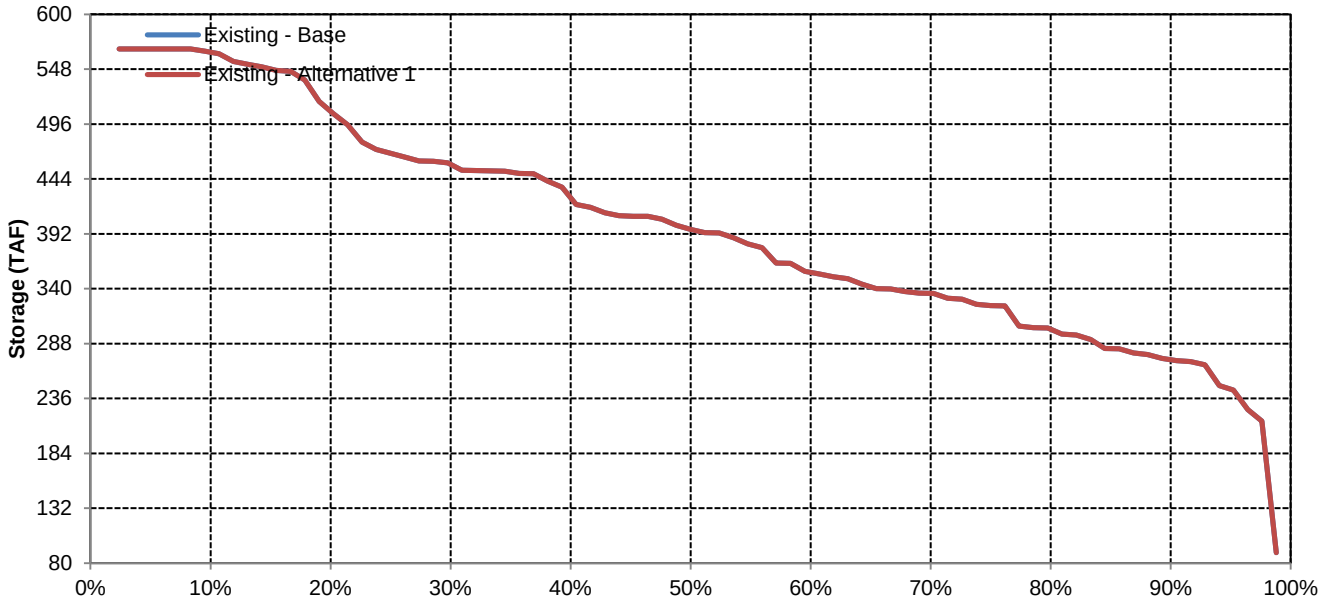
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Folsom Reservoir

October

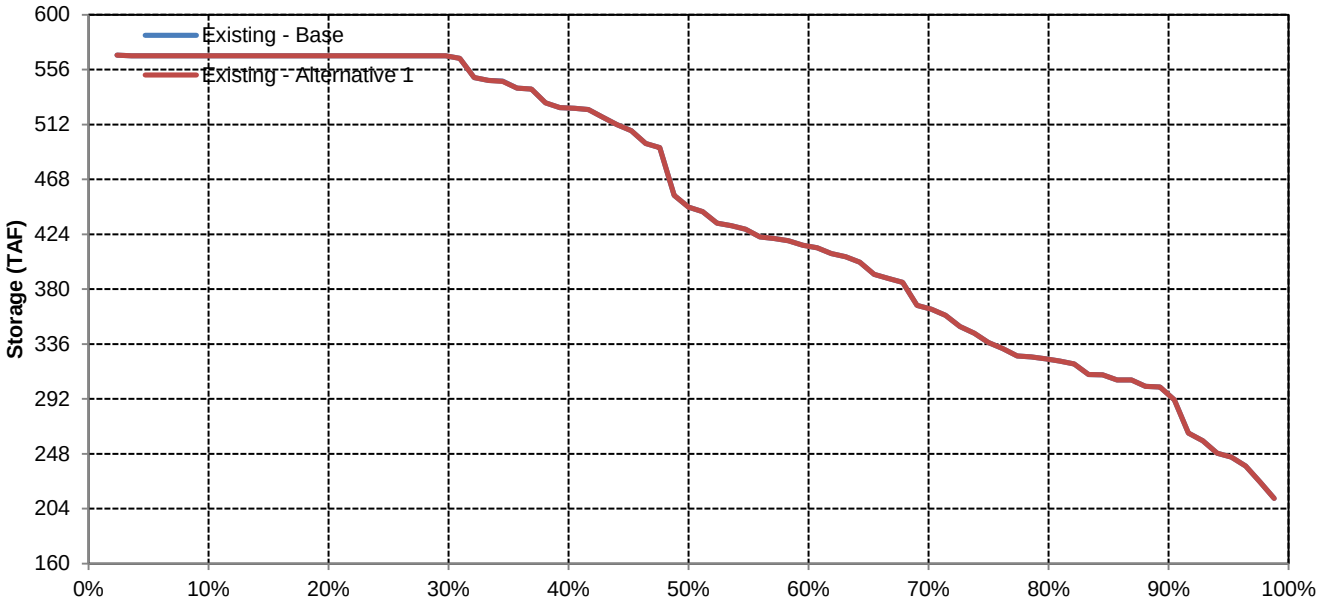


November

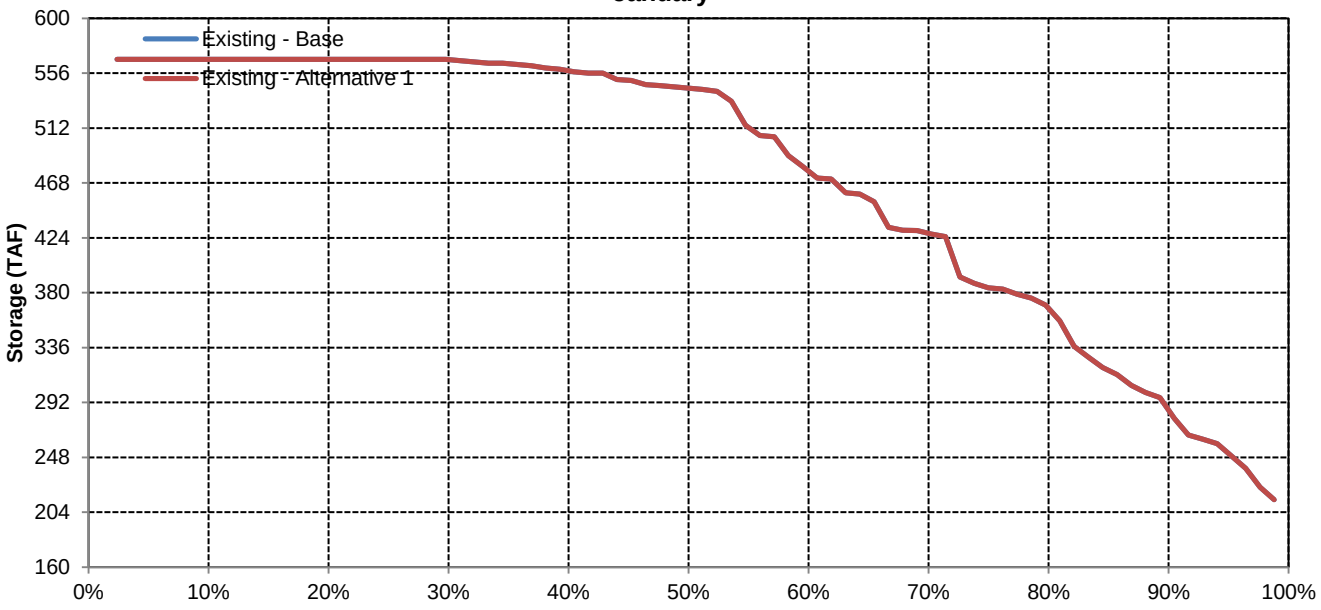


Folsom Reservoir

December

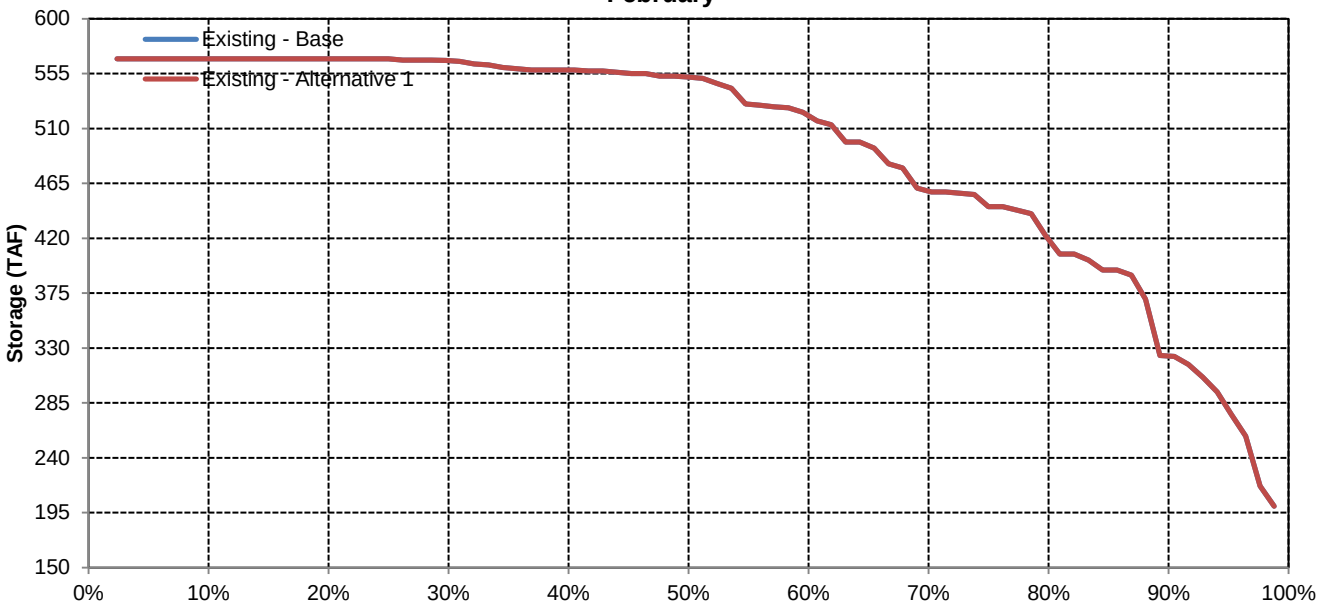


January

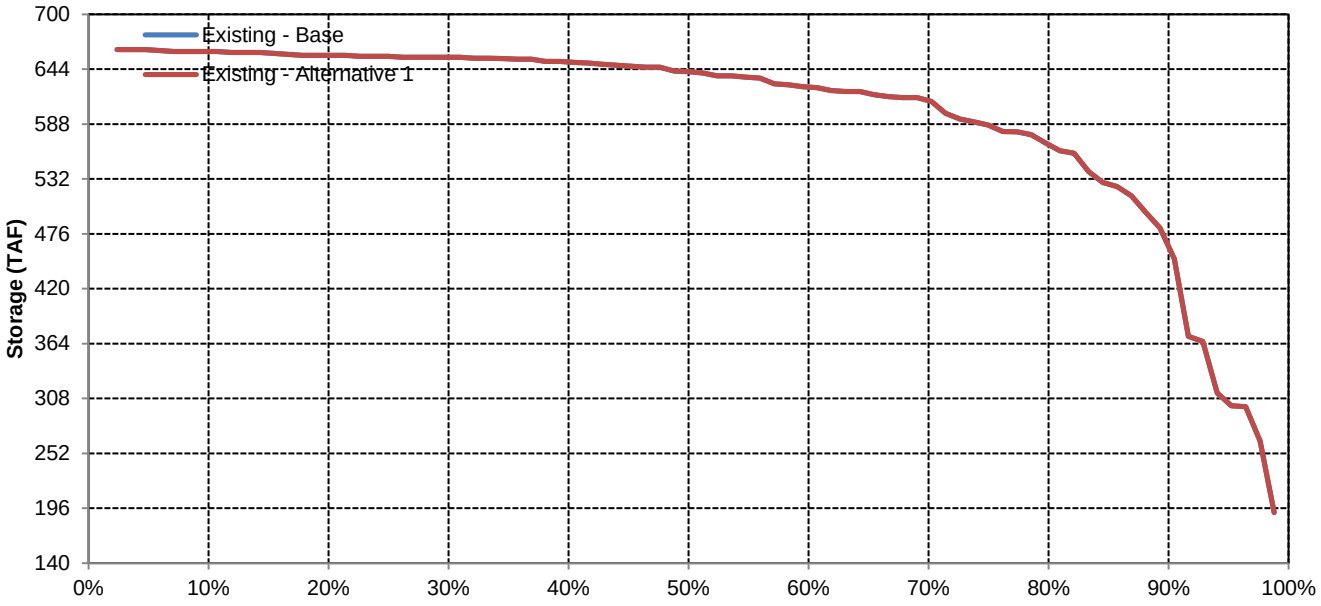


Folsom Reservoir

February

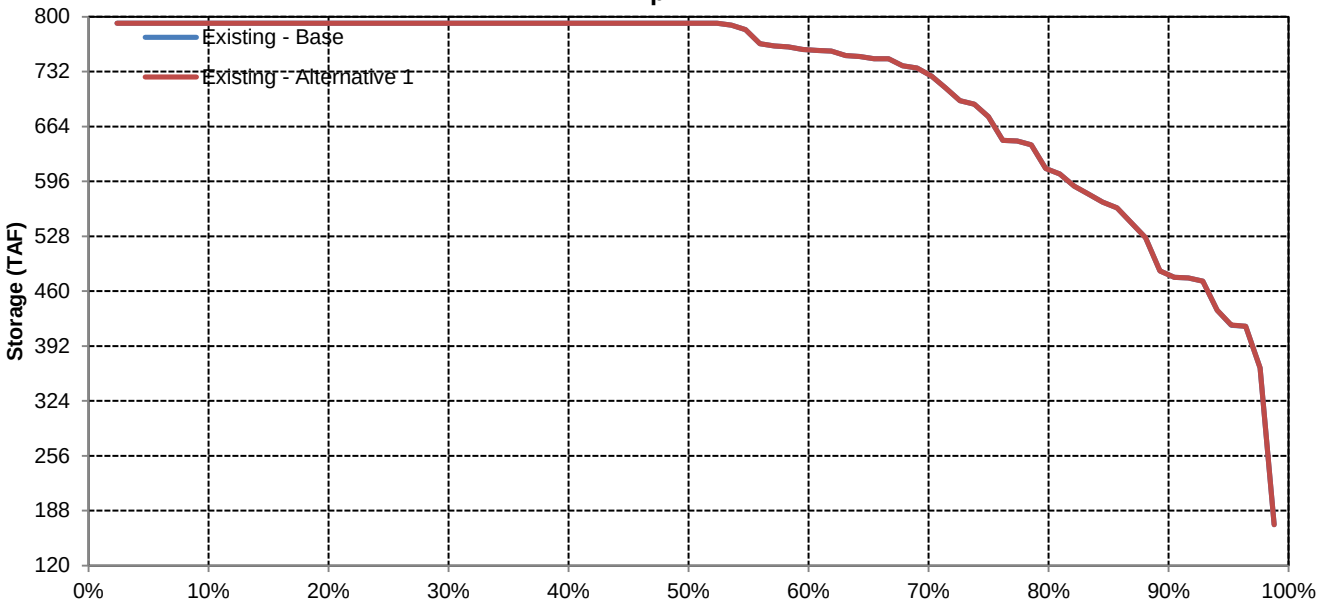


March

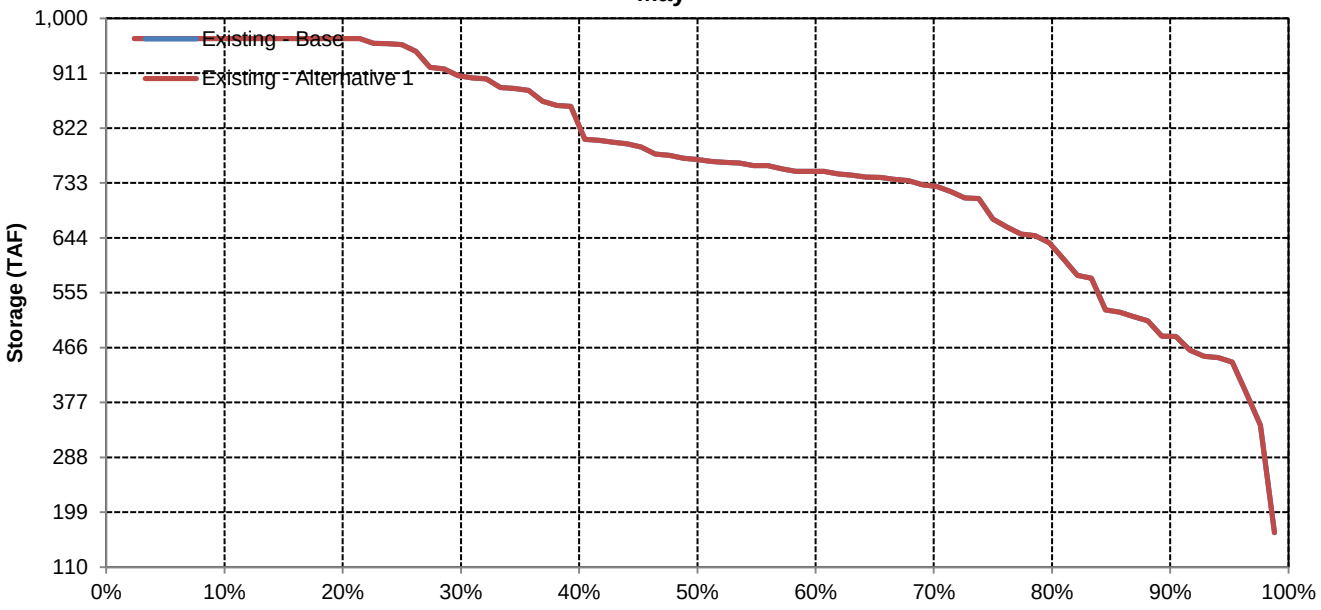


Folsom Reservoir

April

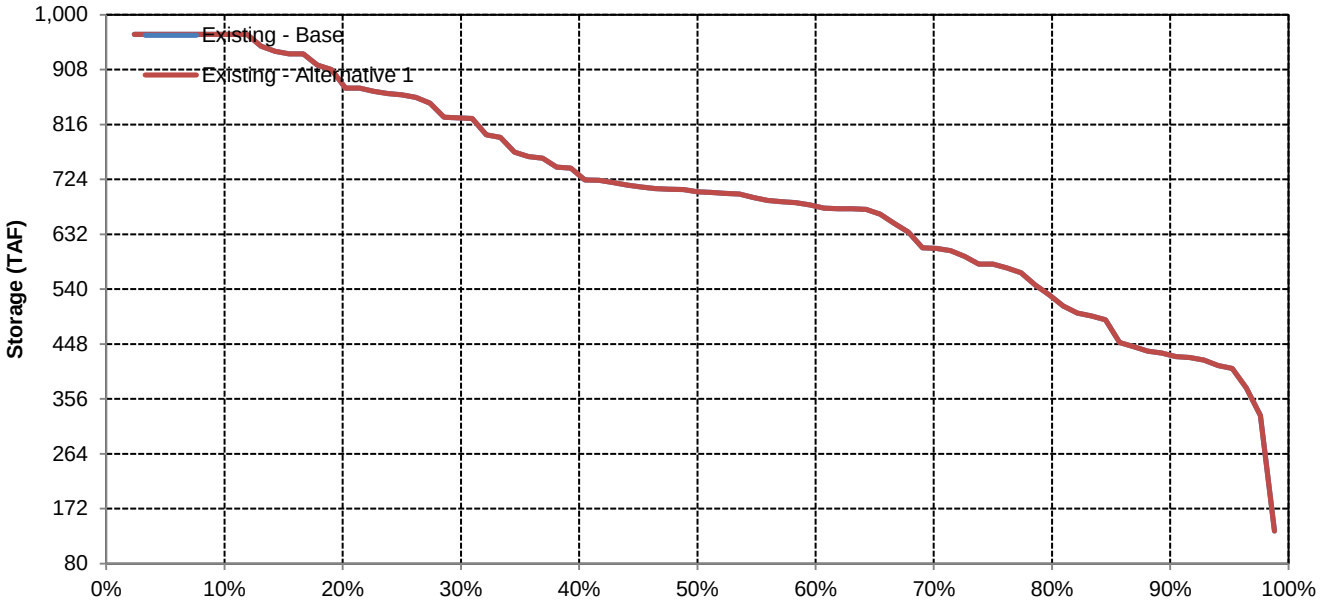


May

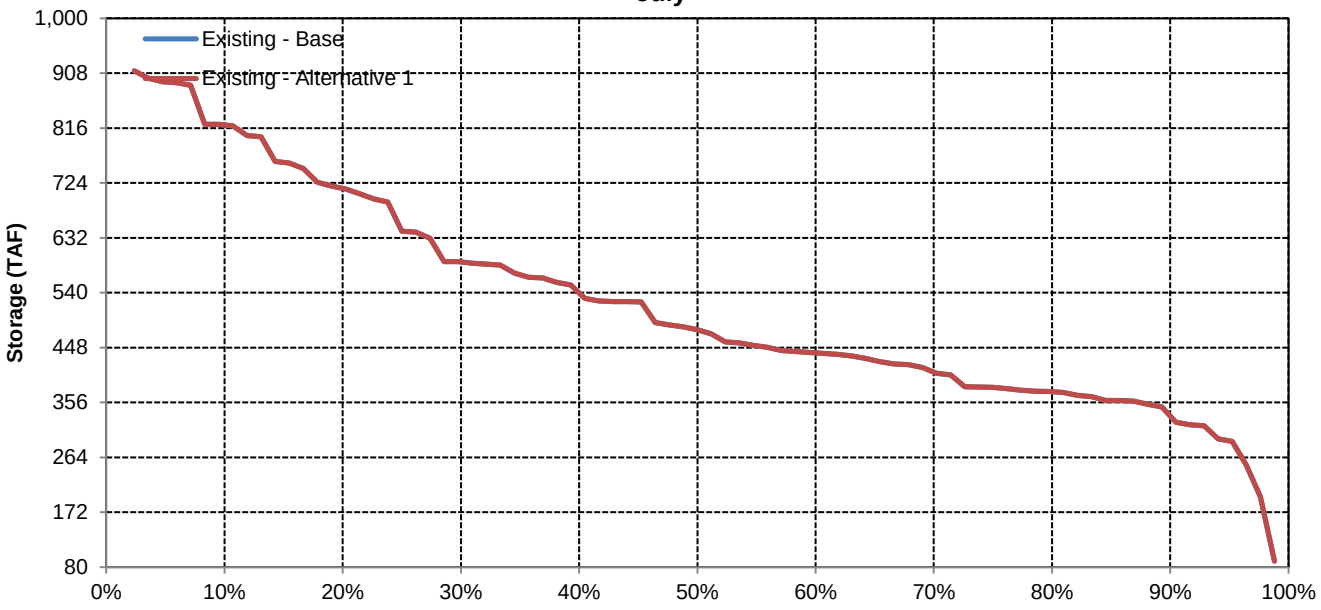


Folsom Reservoir

June

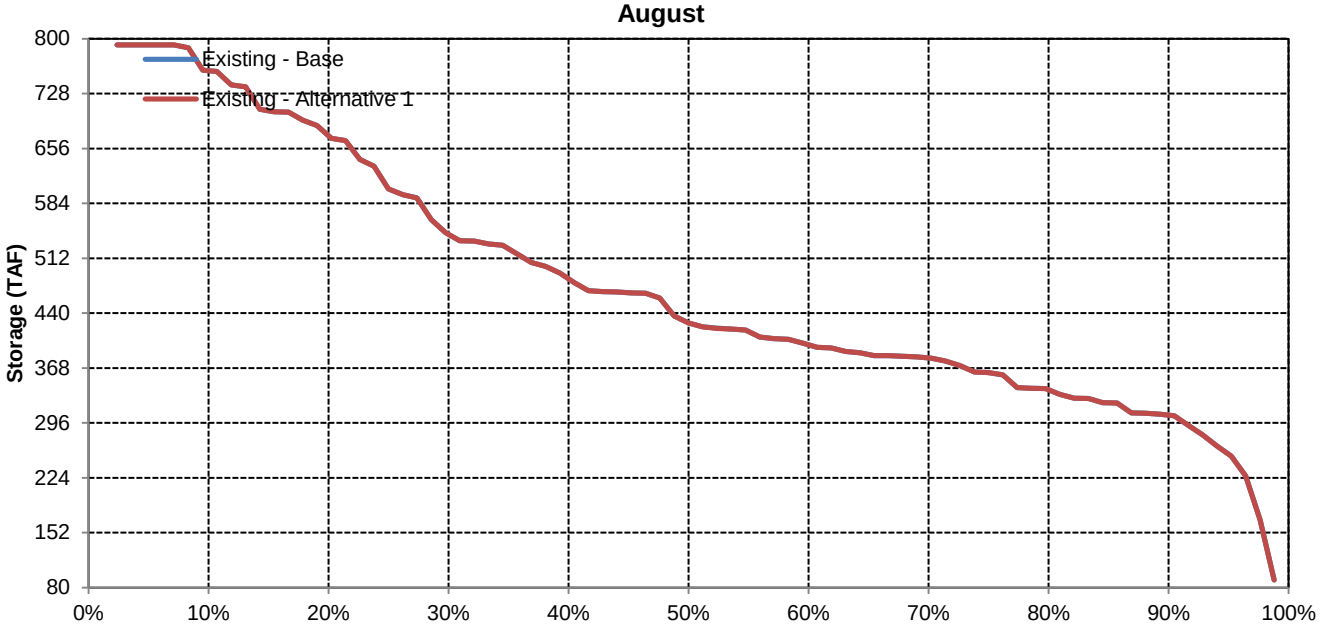


July

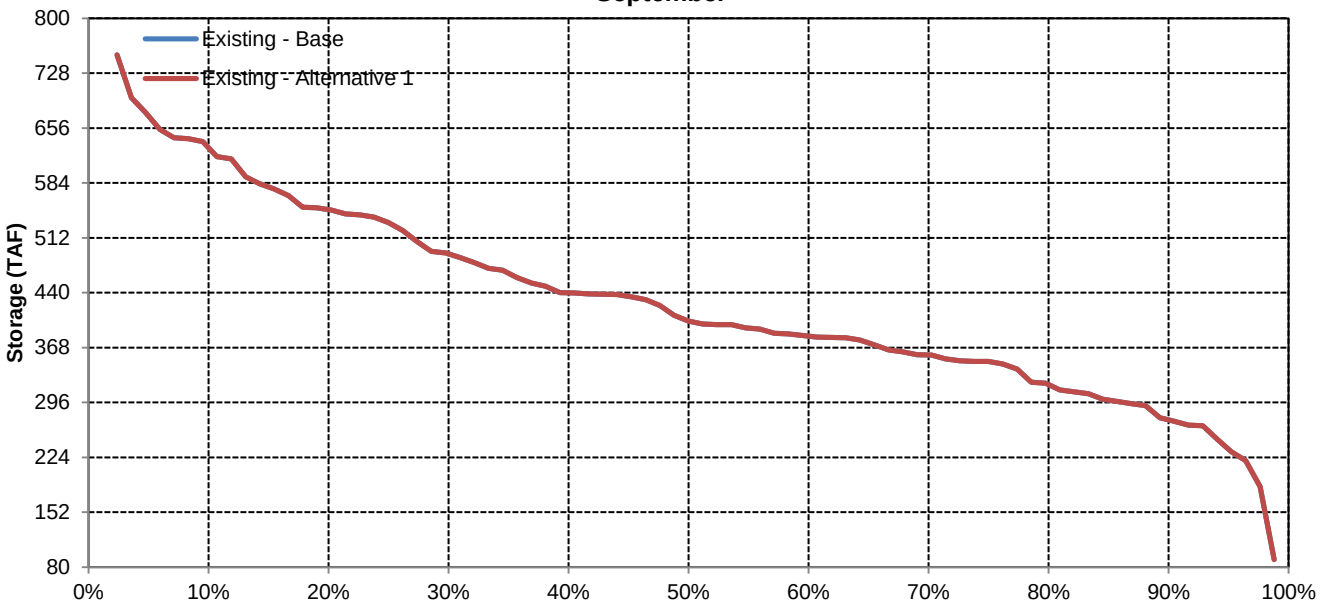


Folsom Reservoir

August



September



Long-Term and Water Year-Type Average of CVP San Luis Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	217	330	493	616	709	777	712	577	404	261	171	178
Existing - Alternative 1	217	330	493	616	709	777	712	577	404	261	171	178
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	230	346	525	677	824	925	859	729	581	362	252	241
Existing - Alternative 1	230	346	525	677	824	925	859	729	581	362	252	241
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	231	375	535	653	766	876	790	630	437	201	133	128
Existing - Alternative 1	231	375	535	653	766	876	790	630	437	201	133	128
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	227	343	526	627	701	758	697	561	373	276	187	214
Existing - Alternative 1	227	343	526	627	701	758	697	561	373	276	187	214
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	183	268	424	532	582	636	573	429	249	184	96	121
Existing - Alternative 1	183	268	424	532	582	636	573	429	249	184	96	121
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	208	316	428	546	591	584	532	427	251	194	118	124
Existing - Alternative 1	208	316	428	546	591	584	532	427	251	194	118	124
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CVP San Luis Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	717	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	392	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 1

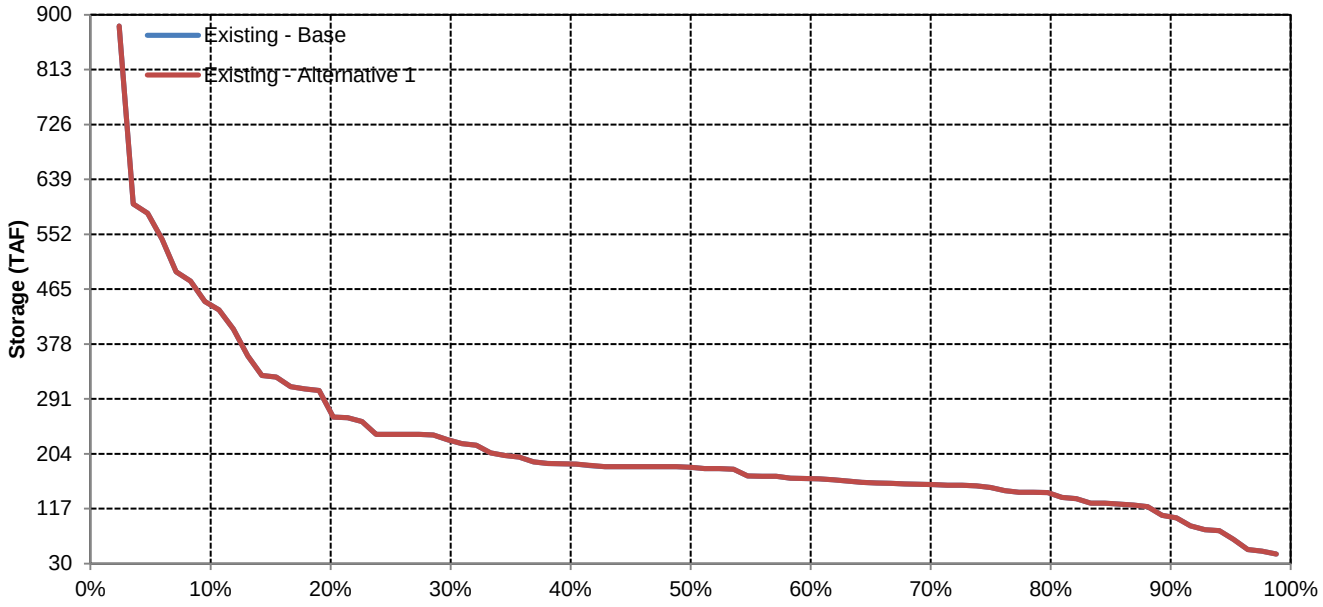
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	718	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	391	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 1 Minus Existing - Base

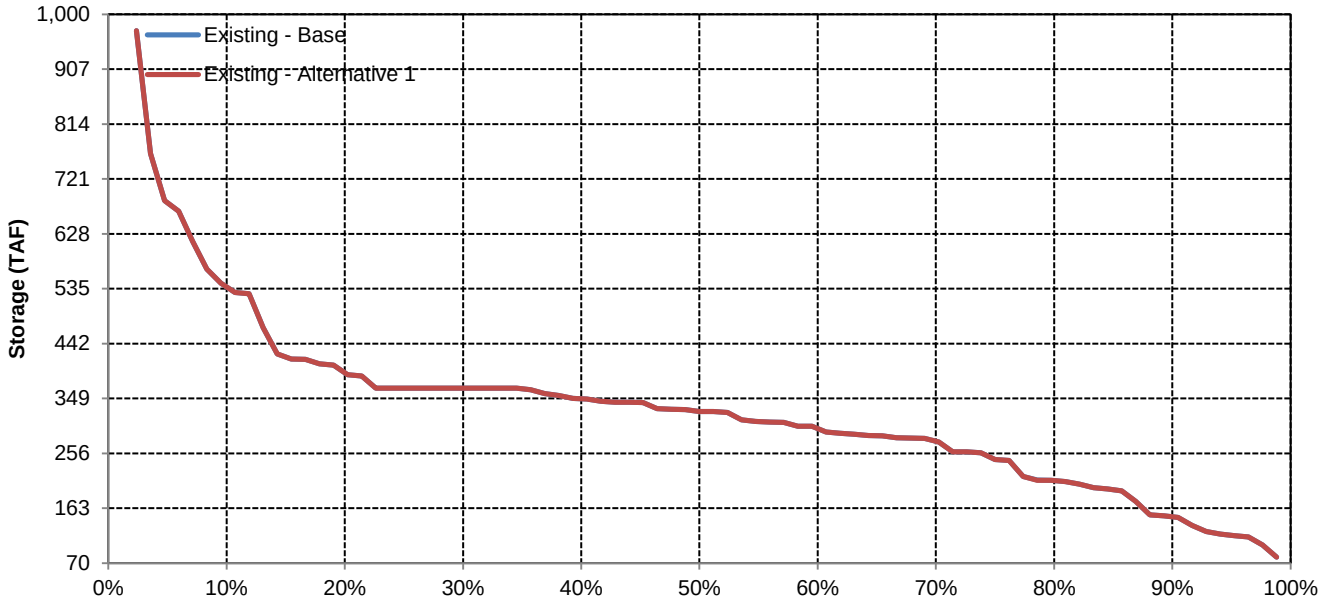
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

CVP San Luis Reservoir

October

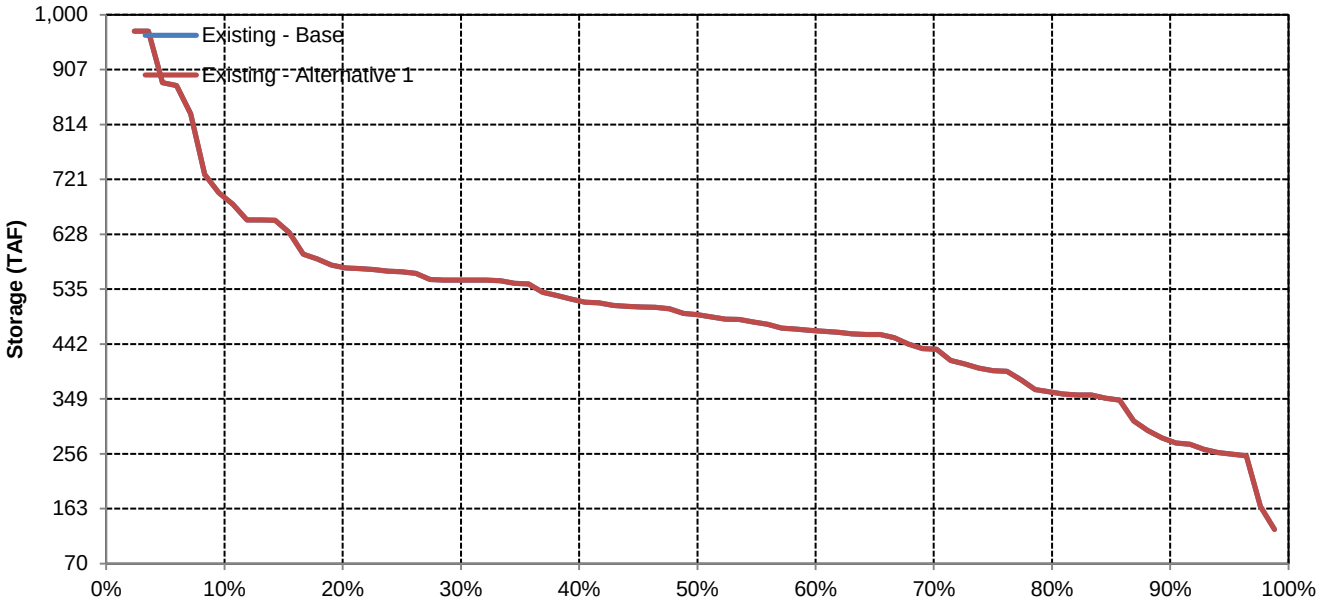


November

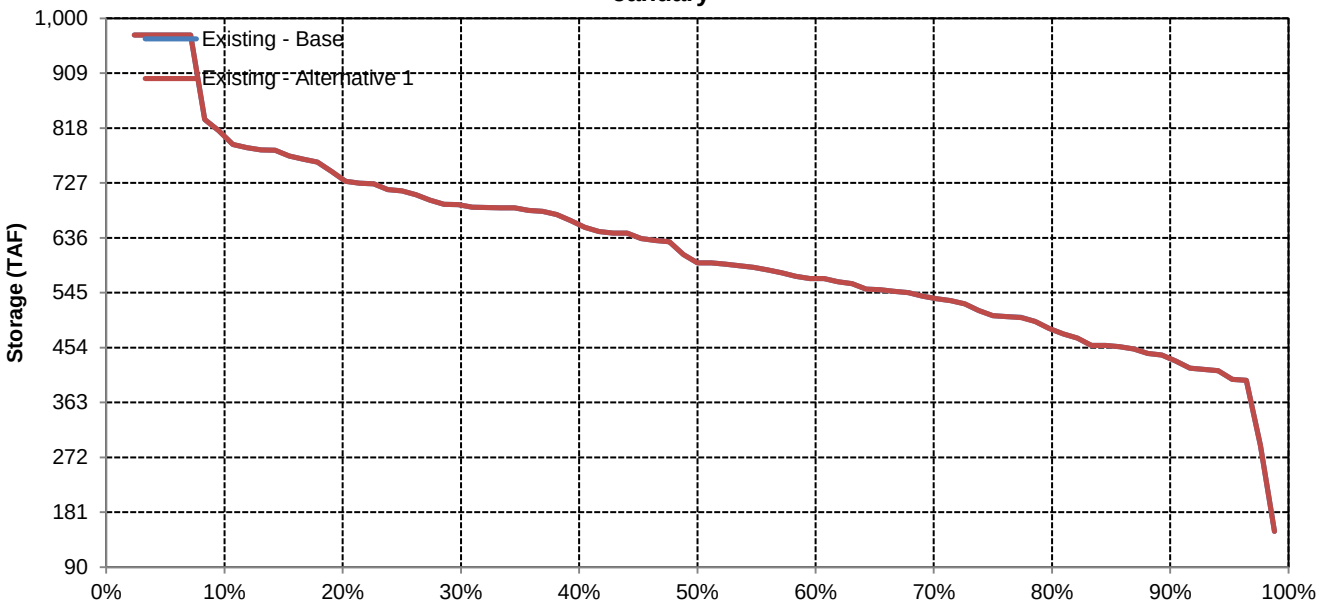


CVP San Luis Reservoir

December

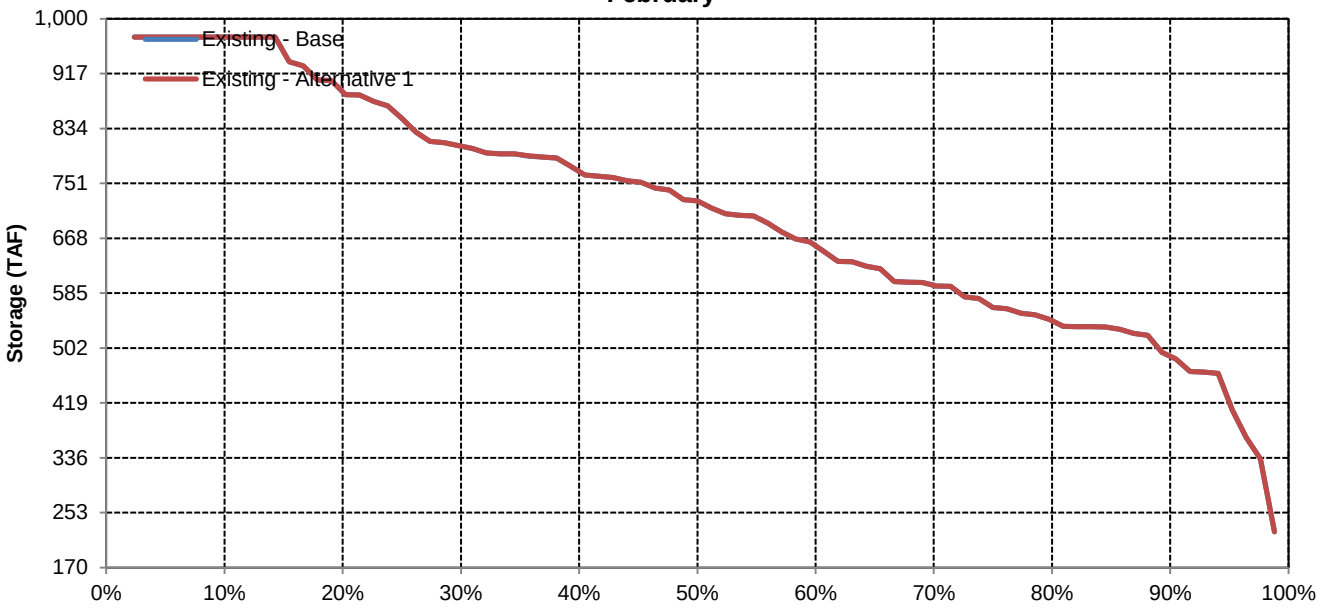


January

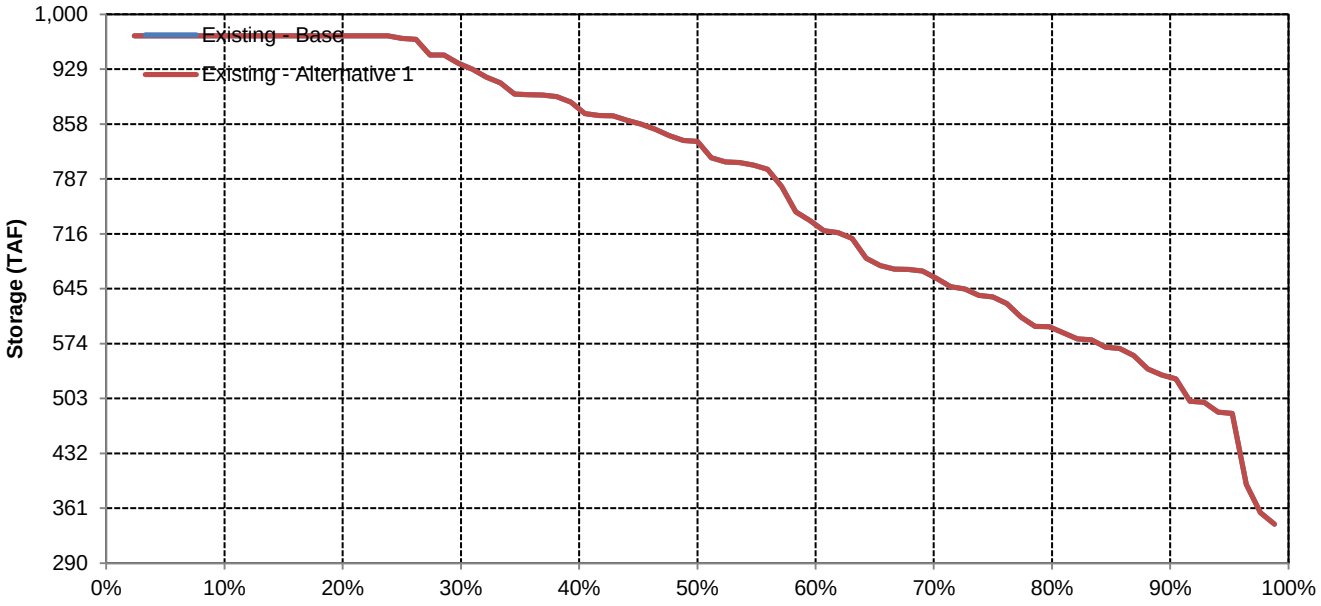


CVP San Luis Reservoir

February

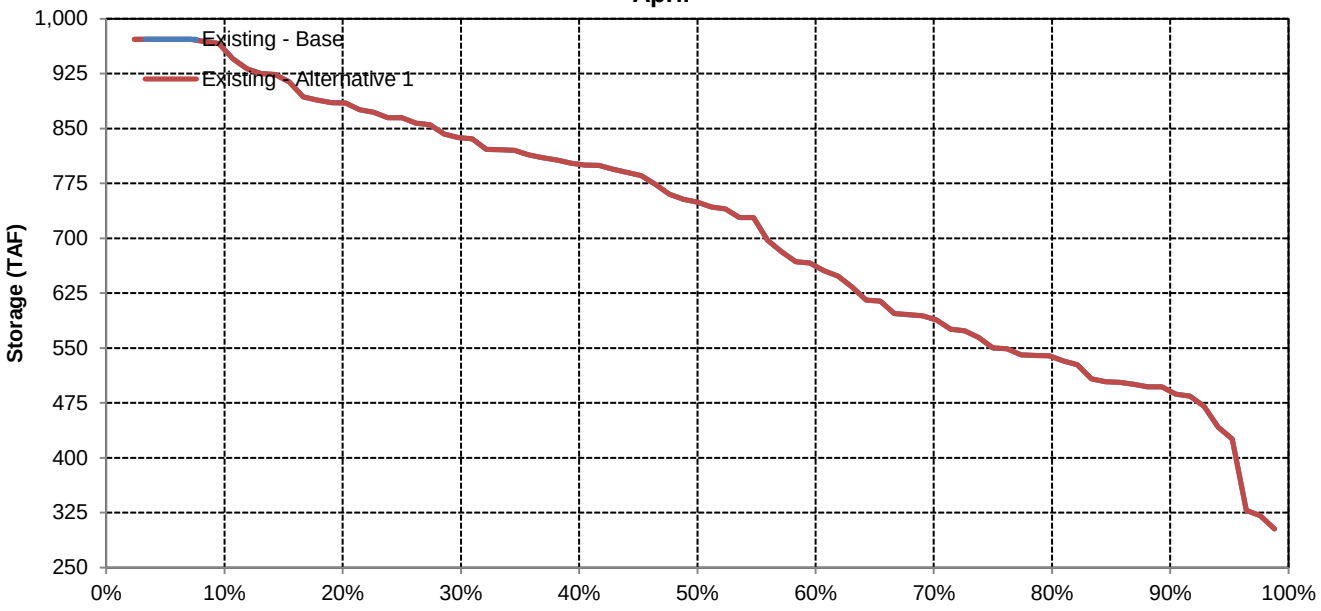


March

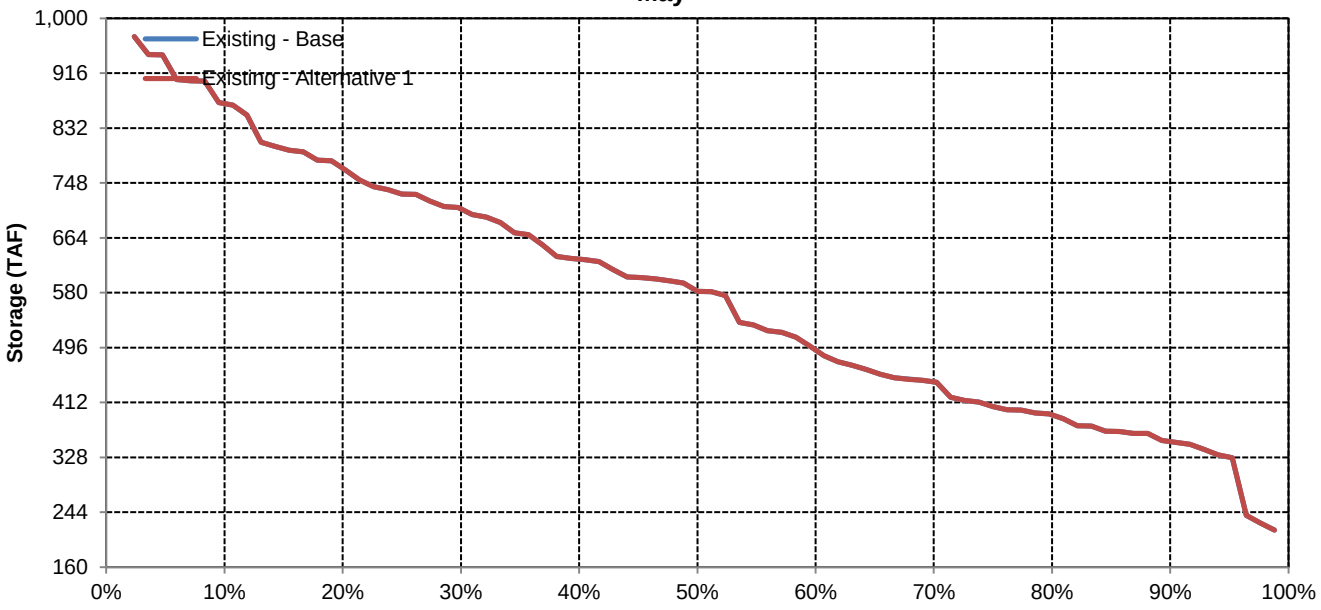


CVP San Luis Reservoir

April

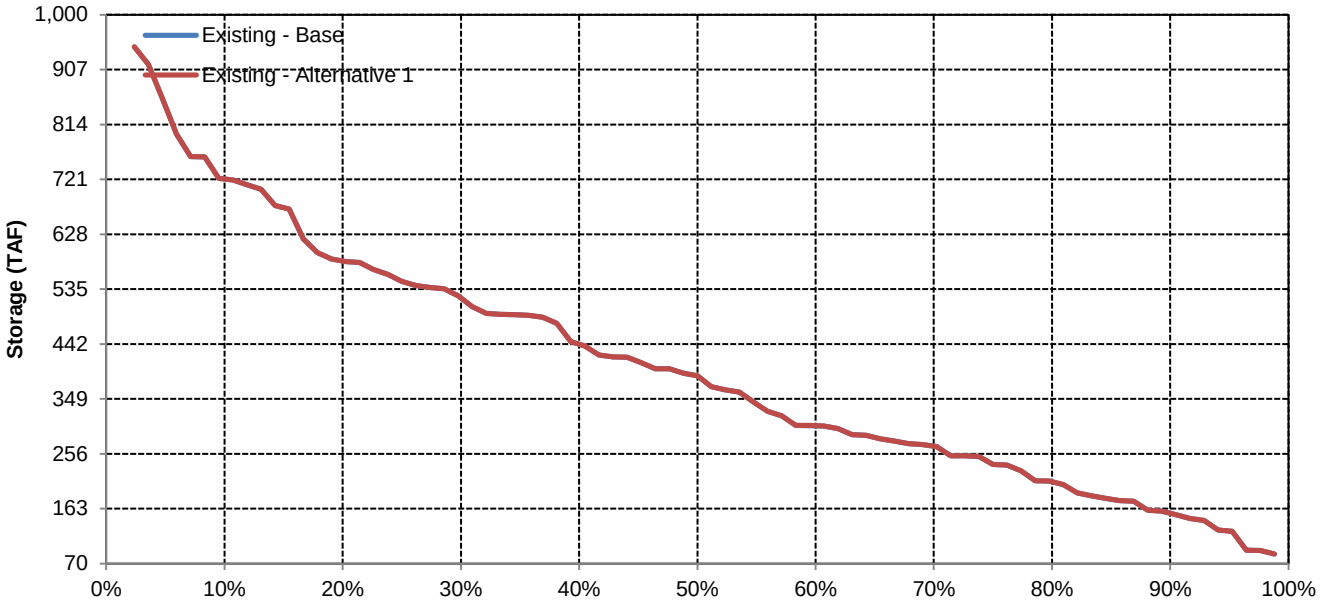


May

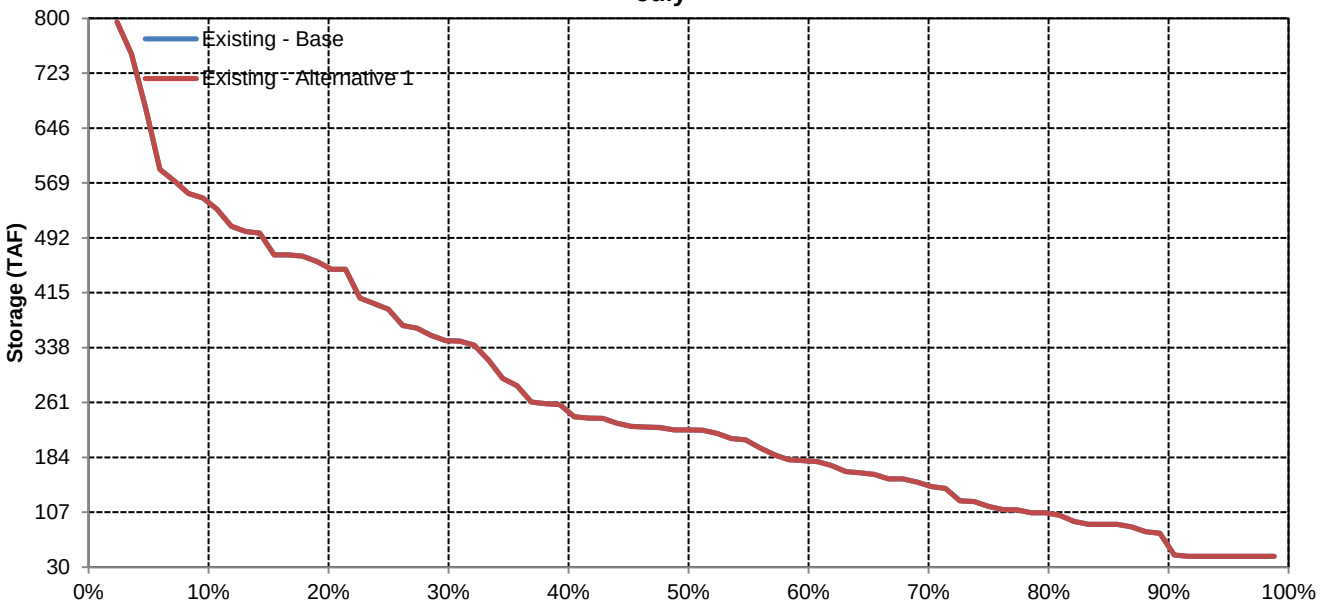


CVP San Luis Reservoir

June

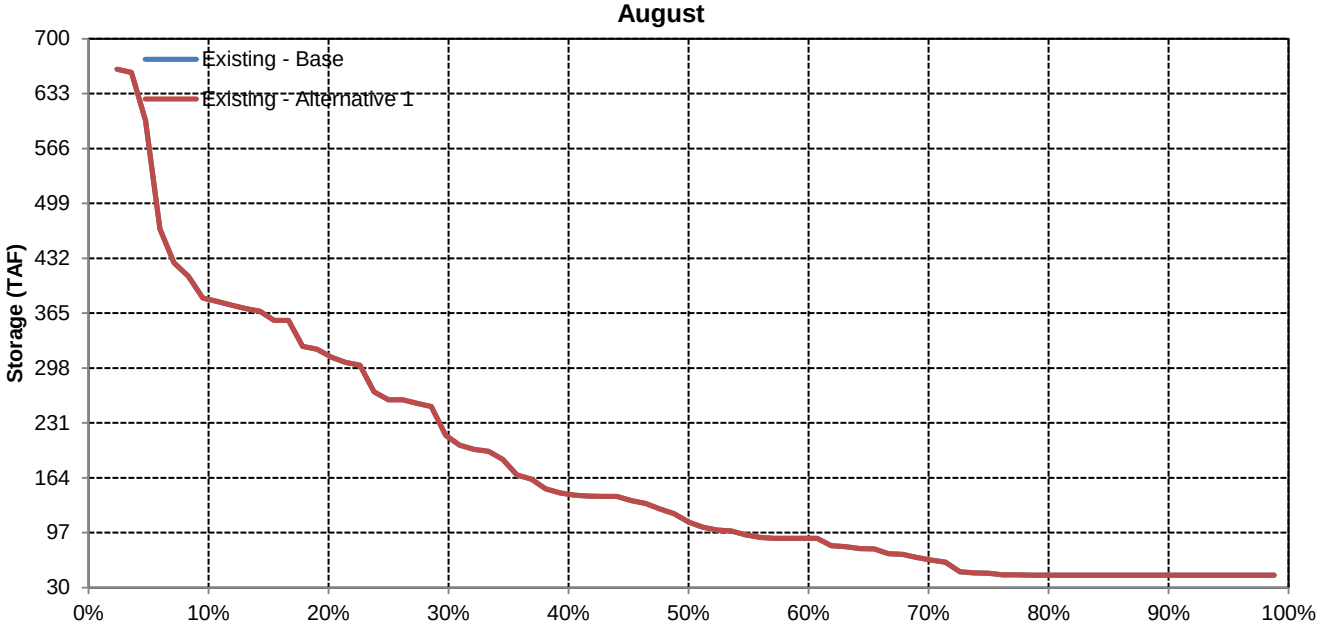


July

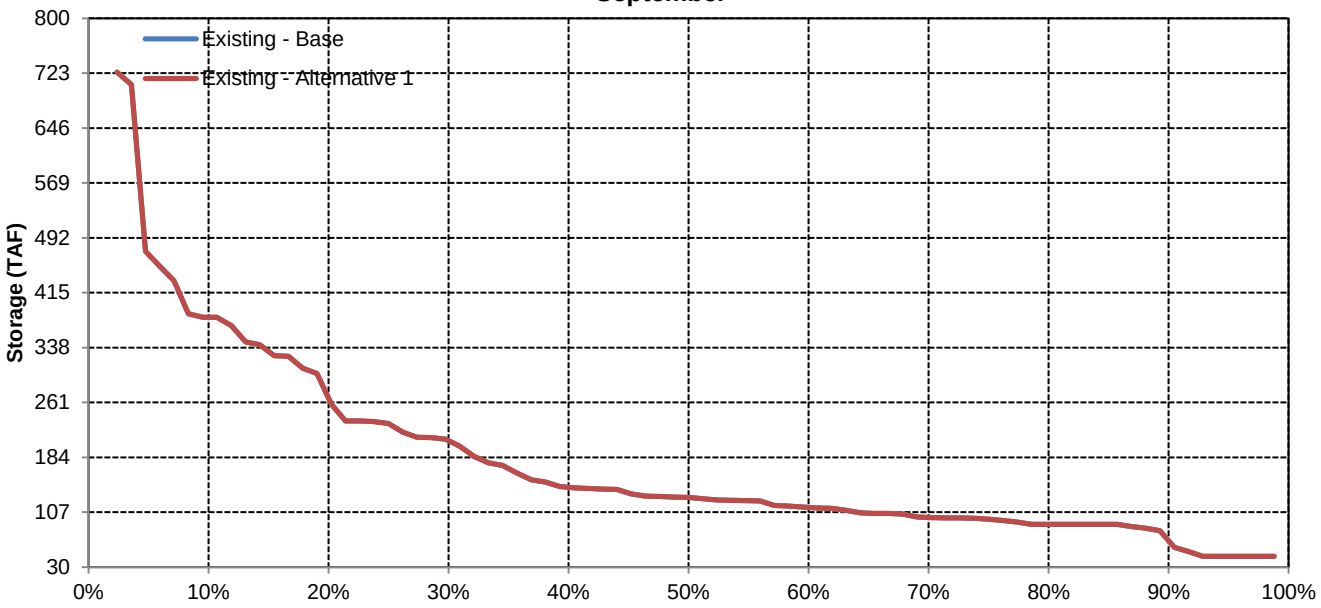


CVP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of SWP San Luis Reservoir Under Existing - Base and Existing - Alternative 1

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	244	268	372	541	678	802	720	562	380	374	324	288
Existing - Alternative 1	244	268	372	541	678	802	720	562	380	374	324	288
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	272	333	431	651	850	980	865	667	471	448	428	363
Existing - Alternative 1	272	333	431	651	850	980	865	667	471	448	428	363
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	259	253	386	576	716	886	757	532	307	308	323	276
Existing - Alternative 1	259	253	386	576	716	886	757	532	307	308	323	276
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	220	246	386	500	622	751	675	512	329	374	370	342
Existing - Alternative 1	220	246	386	500	622	751	675	512	329	374	370	342
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	209	219	300	450	552	670	620	509	348	358	229	234
Existing - Alternative 1	209	219	300	450	552	670	620	509	348	358	229	234
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	249	245	312	459	533	591	579	511	376	305	168	137
Existing - Alternative 1	249	245	312	459	533	591	579	511	376	305	168	137
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	739	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 1

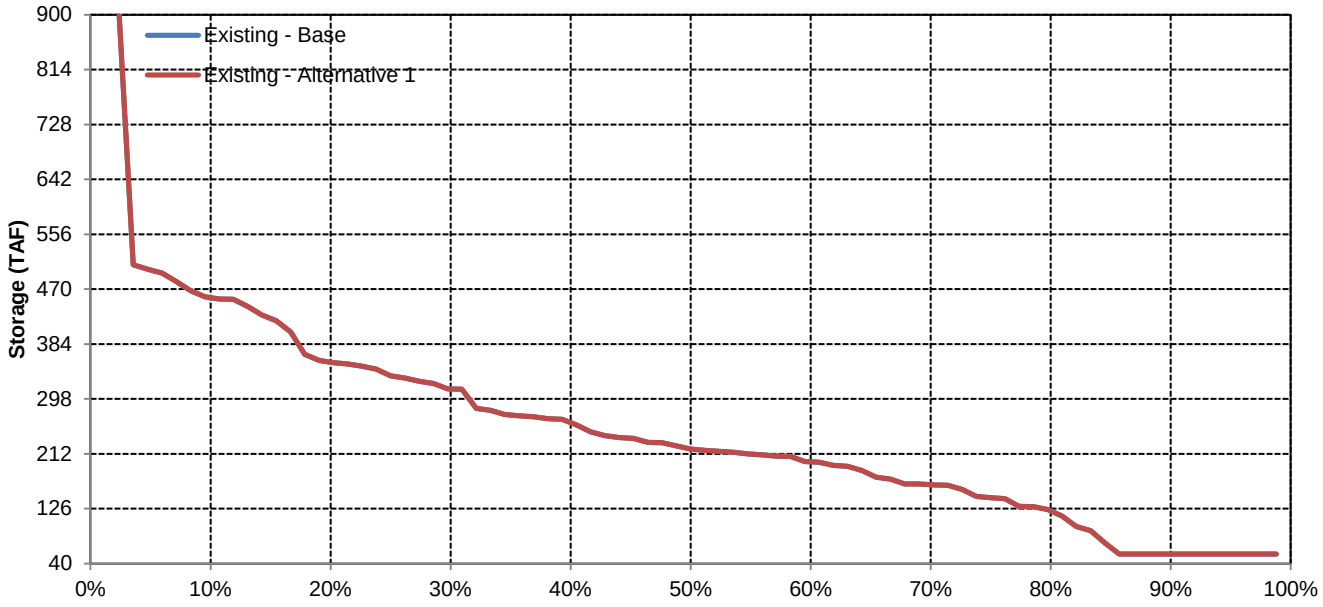
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	738	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 1 Minus Existing - Base

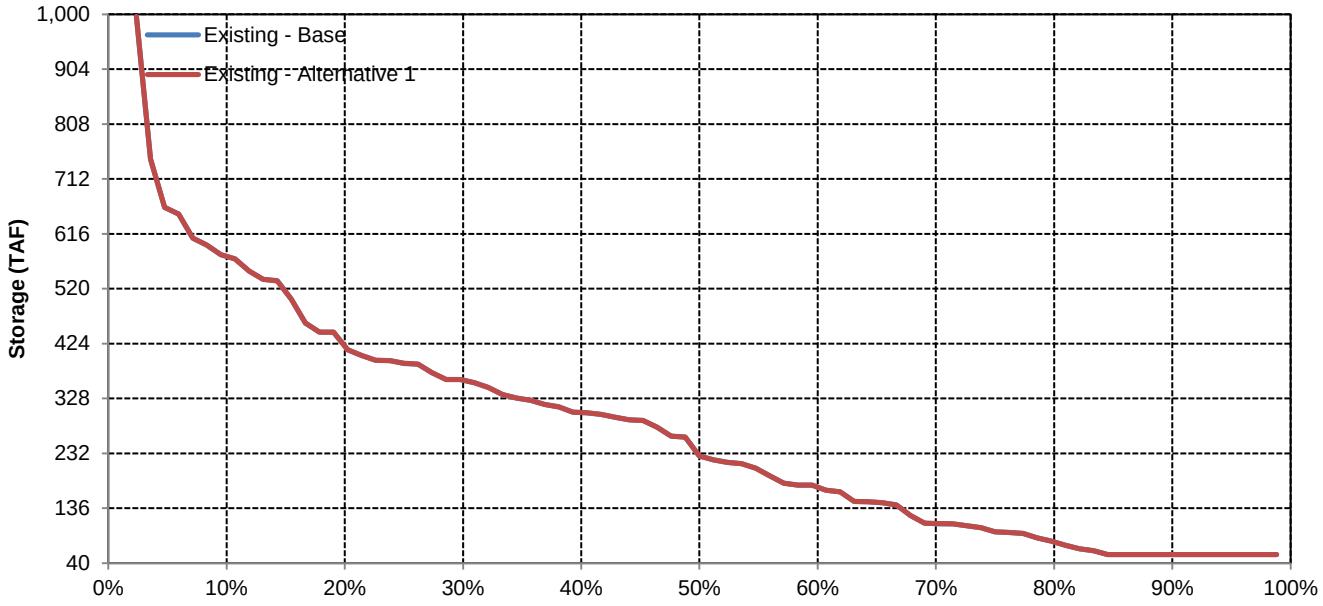
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

SWP San Luis Reservoir

October

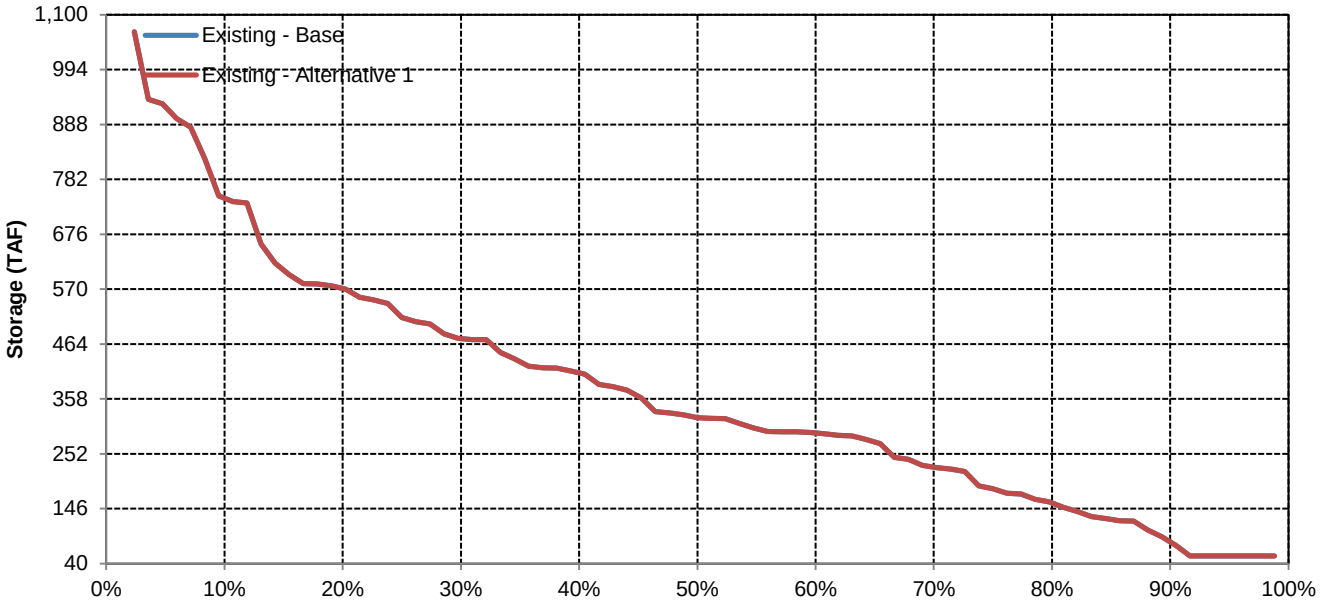


November

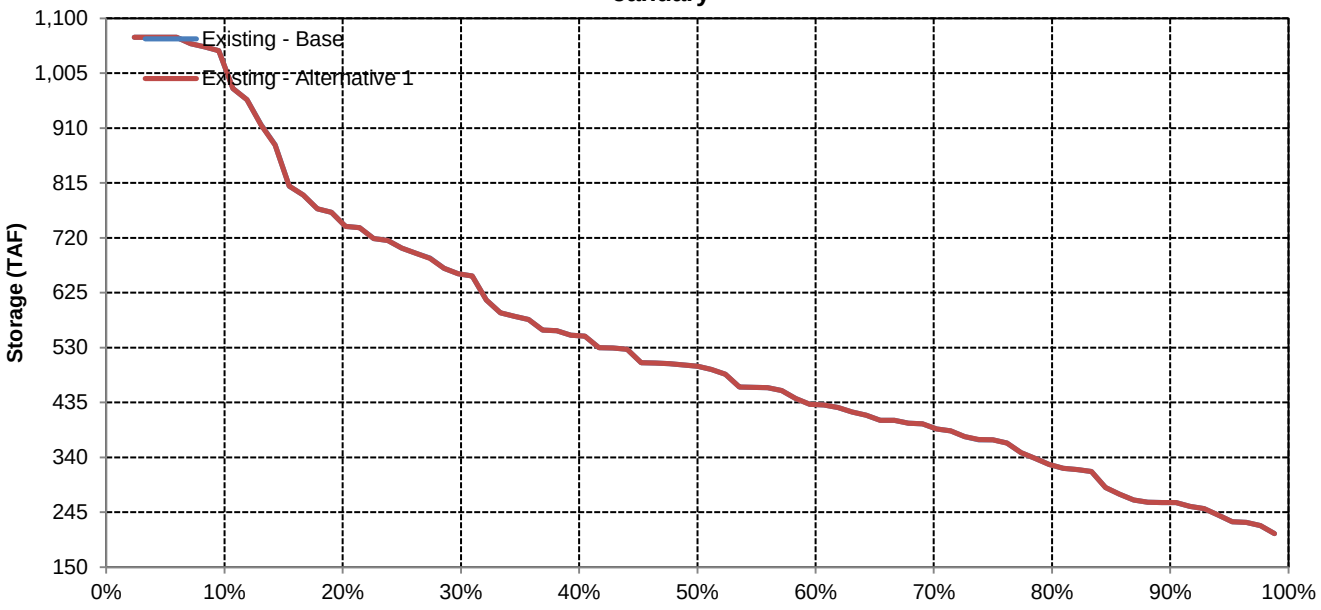


SWP San Luis Reservoir

December

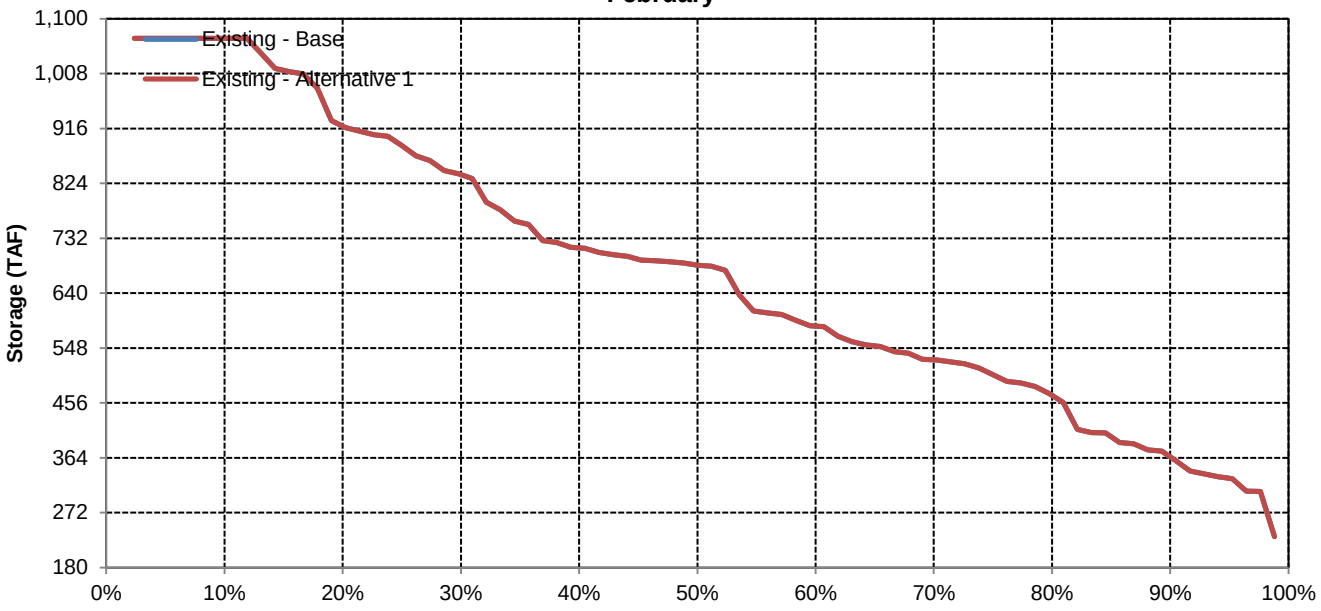


January

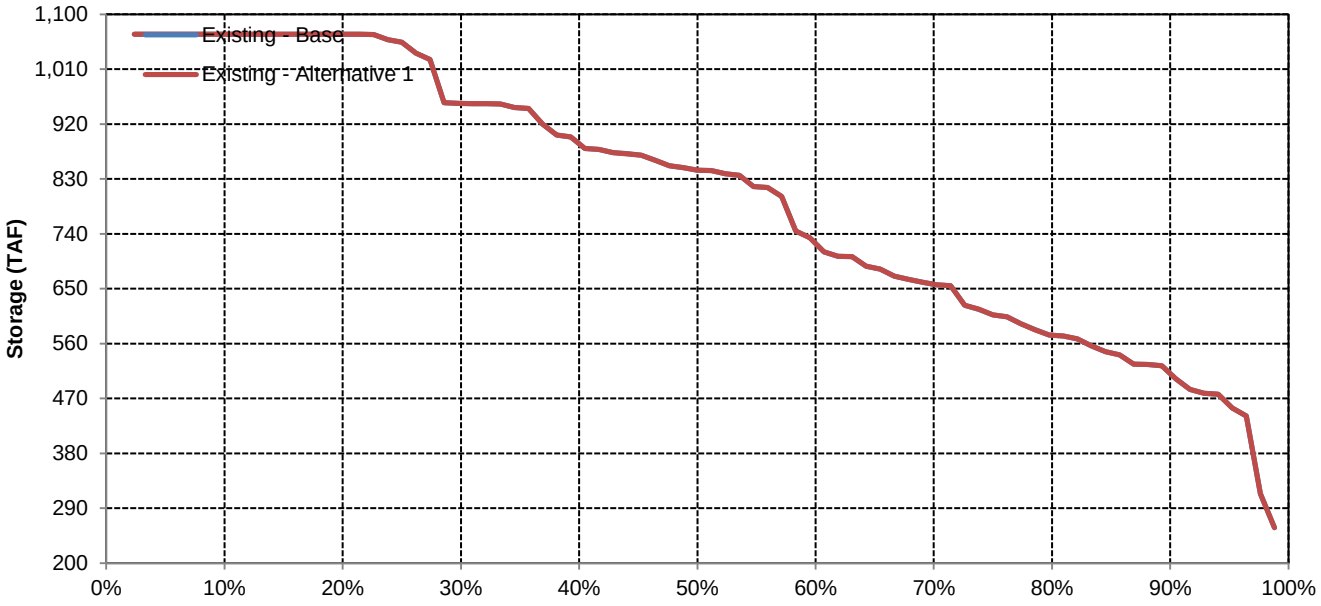


SWP San Luis Reservoir

February

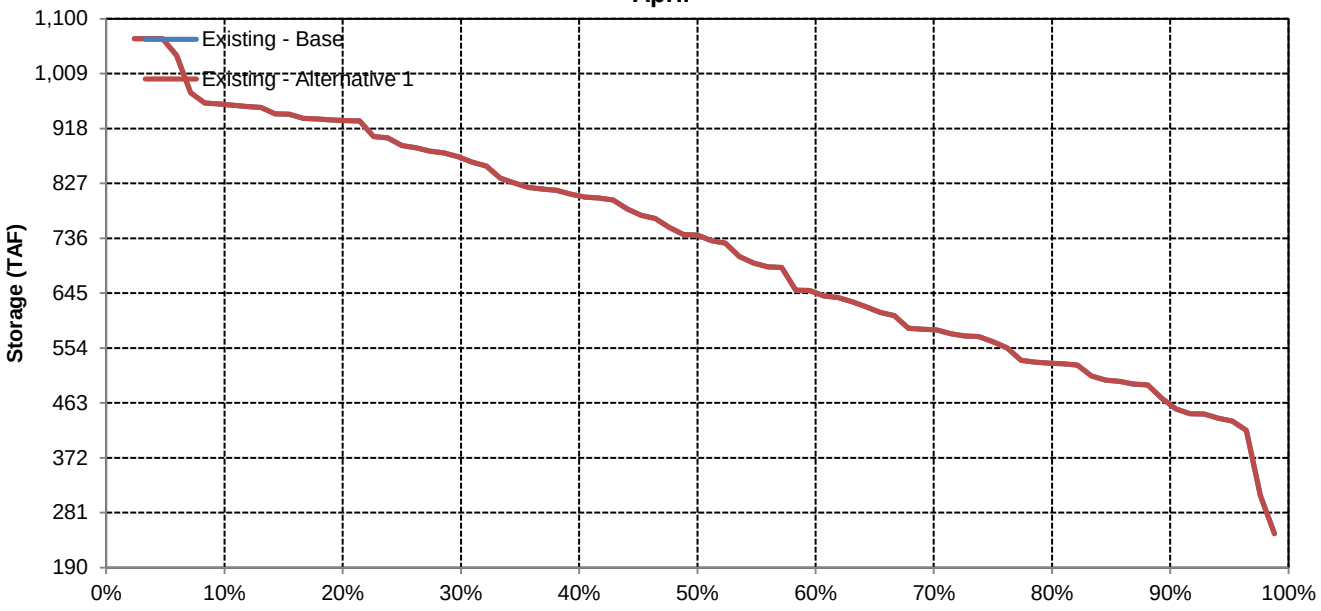


March

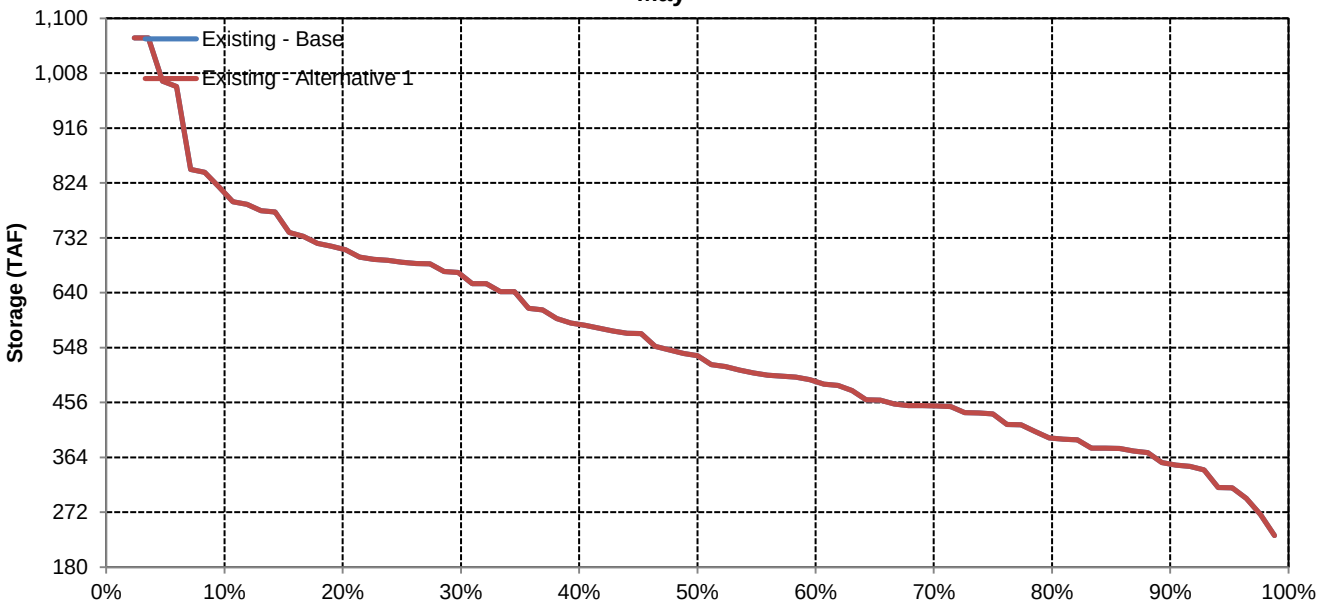


SWP San Luis Reservoir

April

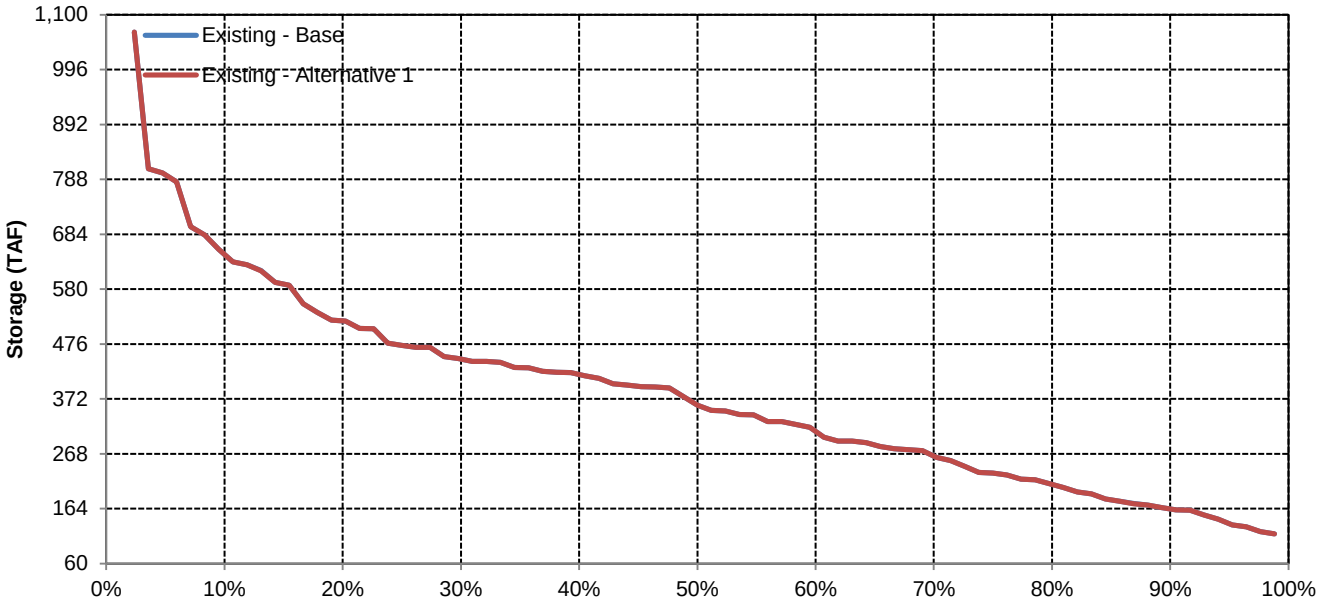


May

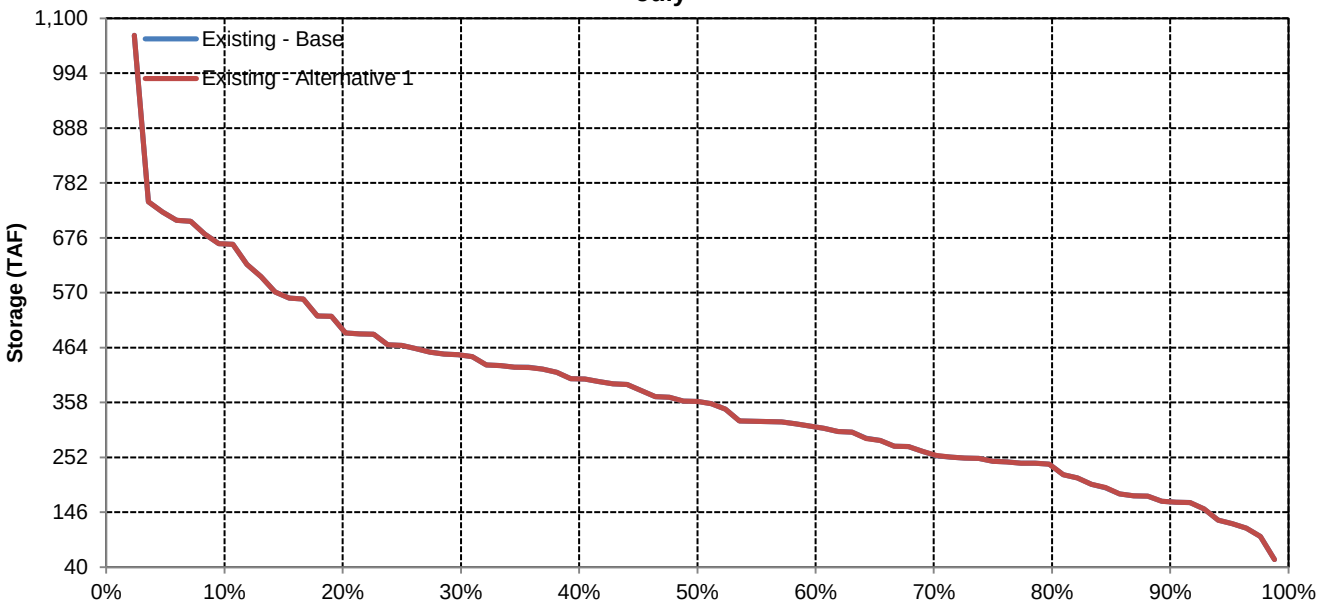


SWP San Luis Reservoir

June

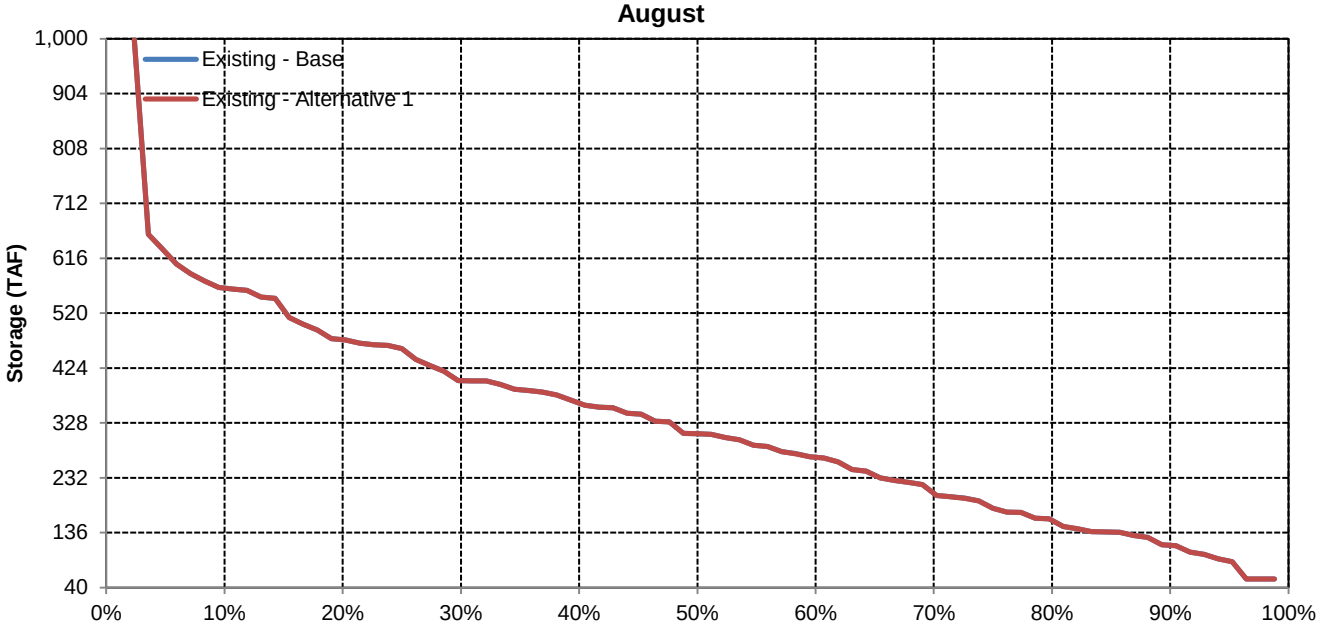


July

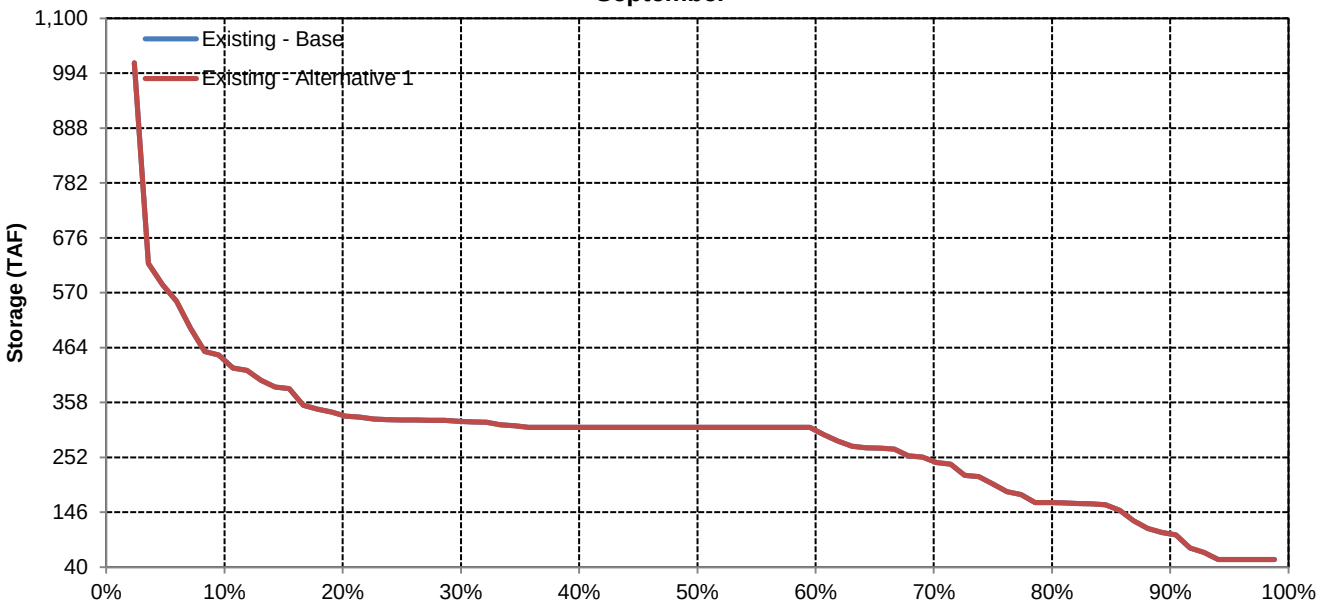


SWP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of Delta Outflow Under Existing - Base and Existing - Alternative 1

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331	16,820
Existing - Alternative 1	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331	16,820
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366	31,372
Existing - Alternative 1	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366	31,372
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Existing - Alternative 1	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469	10,847
Existing - Alternative 1	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469	10,847
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269	7,873
Existing - Alternative 1	5,824	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269	7,873
Difference	0	0	0	0	0	0	0	-1	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Existing - Alternative 1	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Delta Outflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,309	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,991	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,714	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,777	38,477	22,321	12,858	7,100	9,084	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,867	31,169	18,044	11,426	7,100	8,603	4,000	3,914
60%	4,000	6,253	6,752	19,211	28,692	22,356	14,643	10,166	6,905	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,591	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,597	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469
Dry	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 1

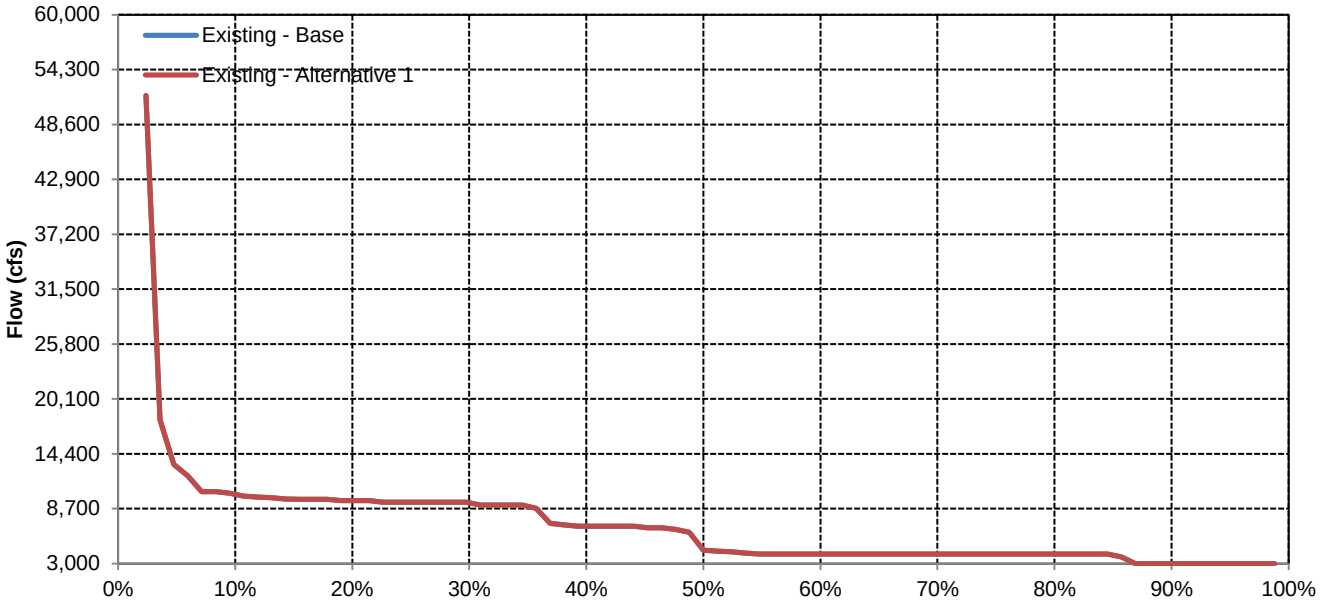
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,308	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,992	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,715	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,776	38,477	22,321	12,858	7,100	9,085	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,868	31,169	18,044	11,426	7,100	8,603	4,000	3,913
60%	4,000	6,253	6,752	19,211	28,692	22,356	14,643	10,166	6,903	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,592	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,596	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469
Dry	5,824	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 1 Minus Existing - Base

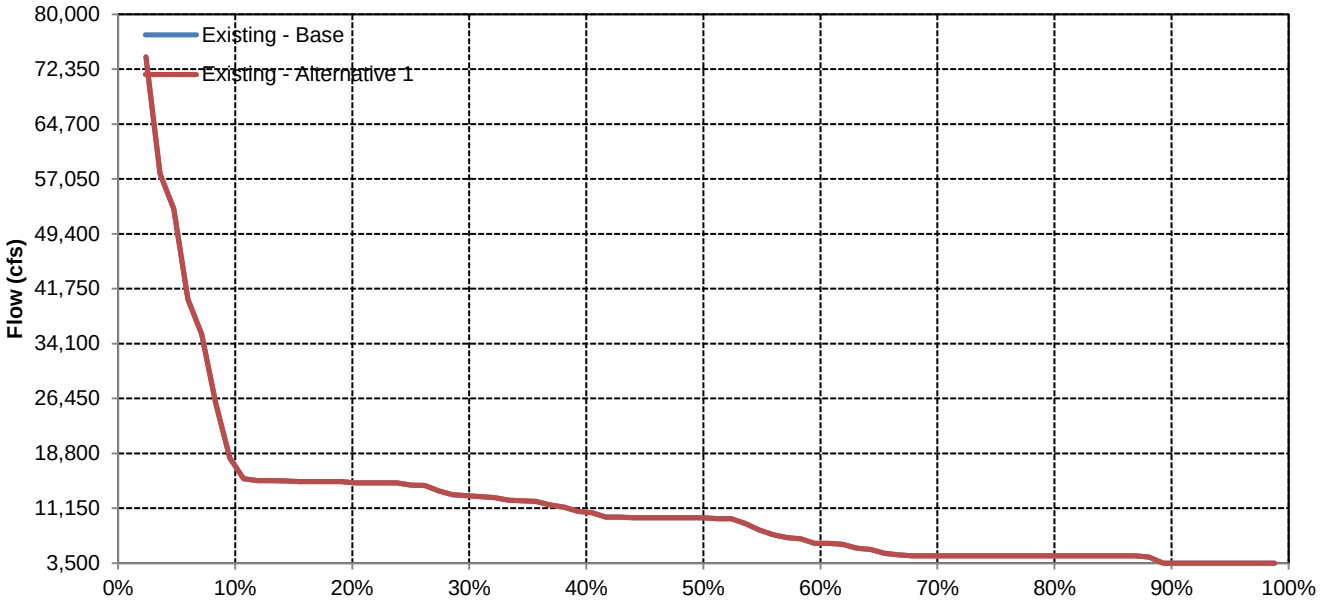
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	-1	0
20%	0	0	0	0	0	0	0	0	1	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	1	0	0	0	0	0	0	-1
60%	0	0	0	0	0	0	0	0	-2	0	0	0
70%	0	0	0	0	0	0	0	0	0	1	0	0
80%	0	0	0	0	0	0	0	-2	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	-1	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Delta Outflow

October

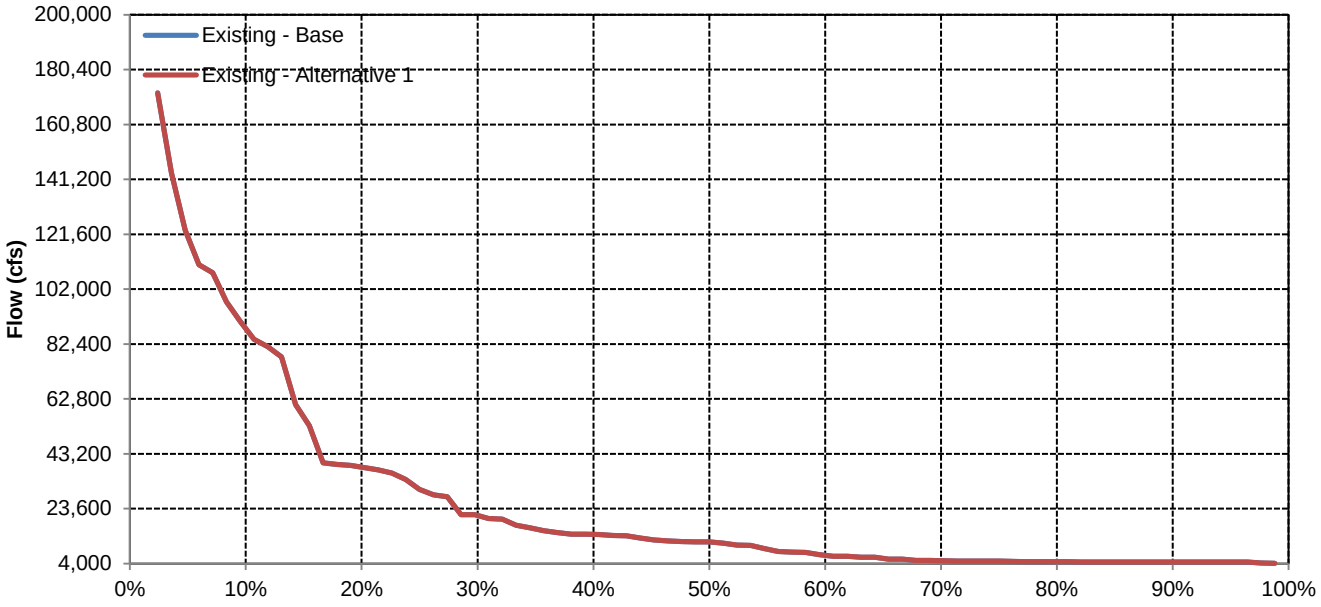


November

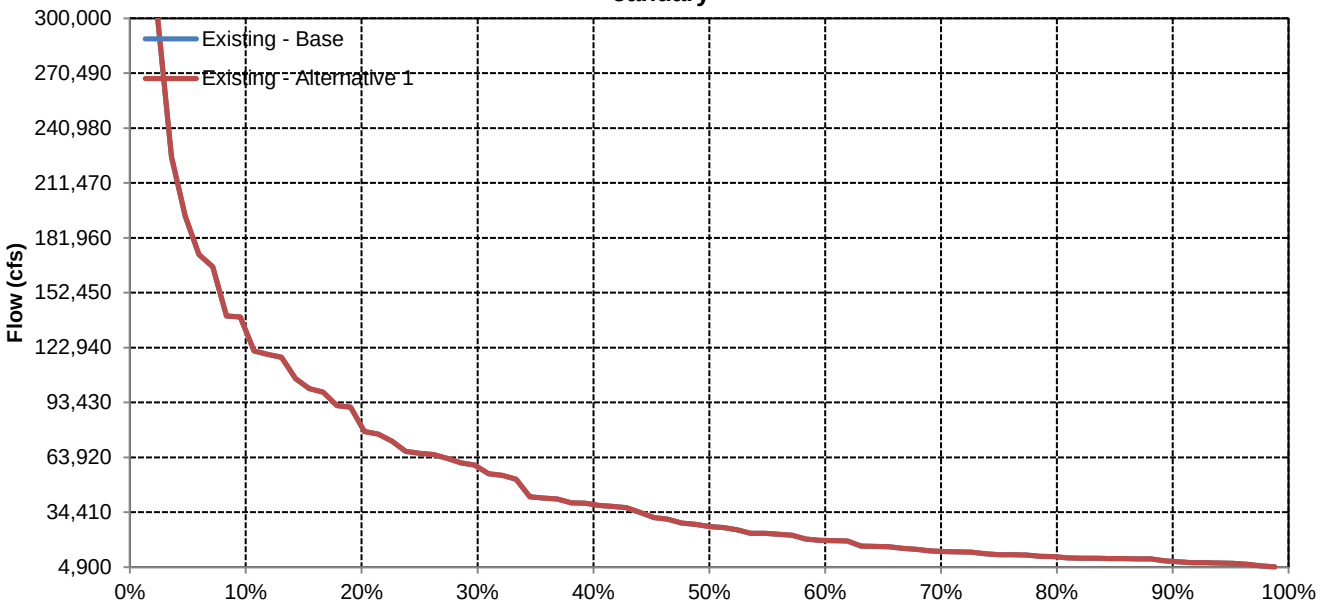


Delta Outflow

December

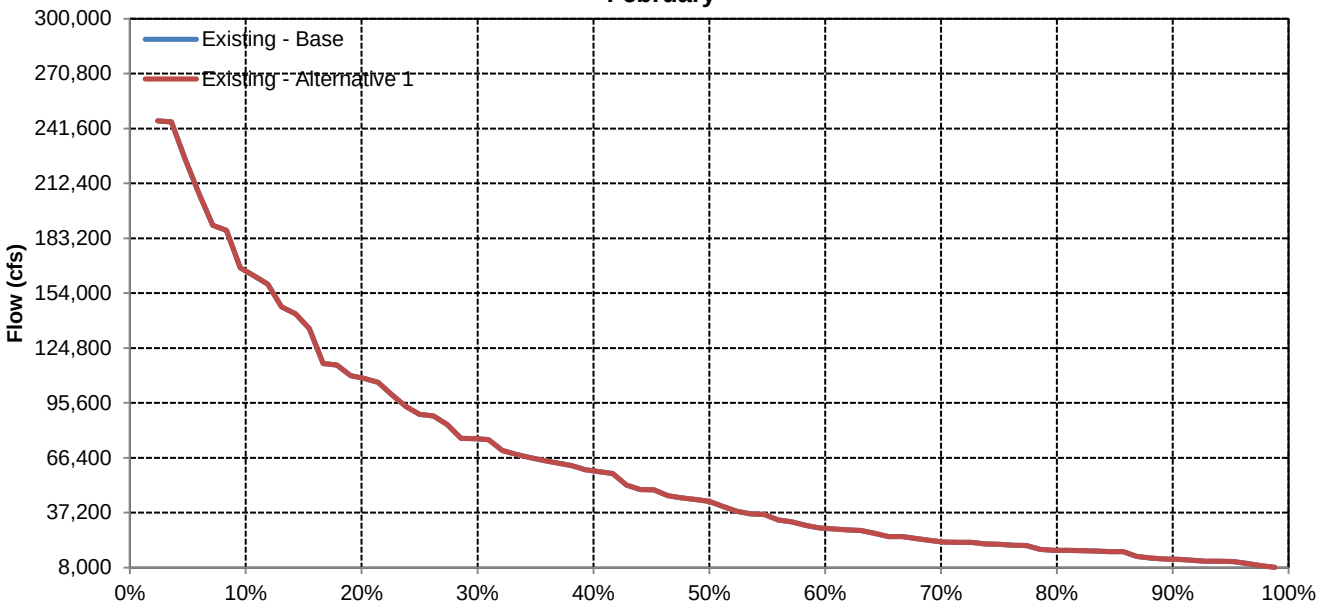


January

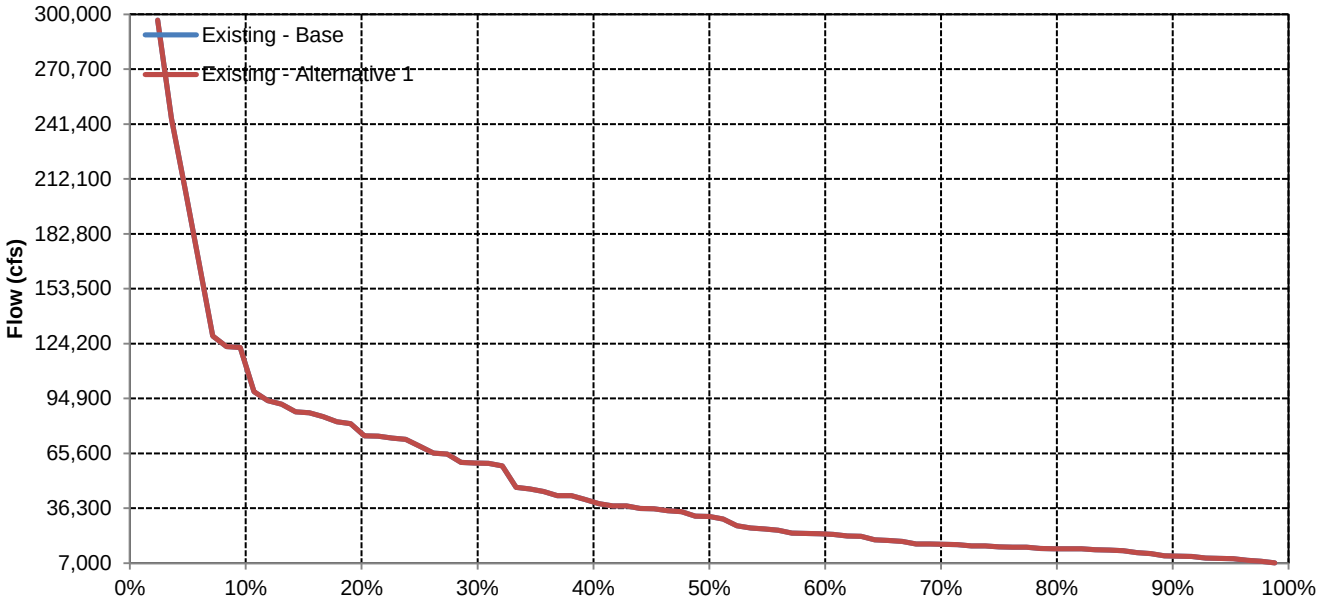


Delta Outflow

February

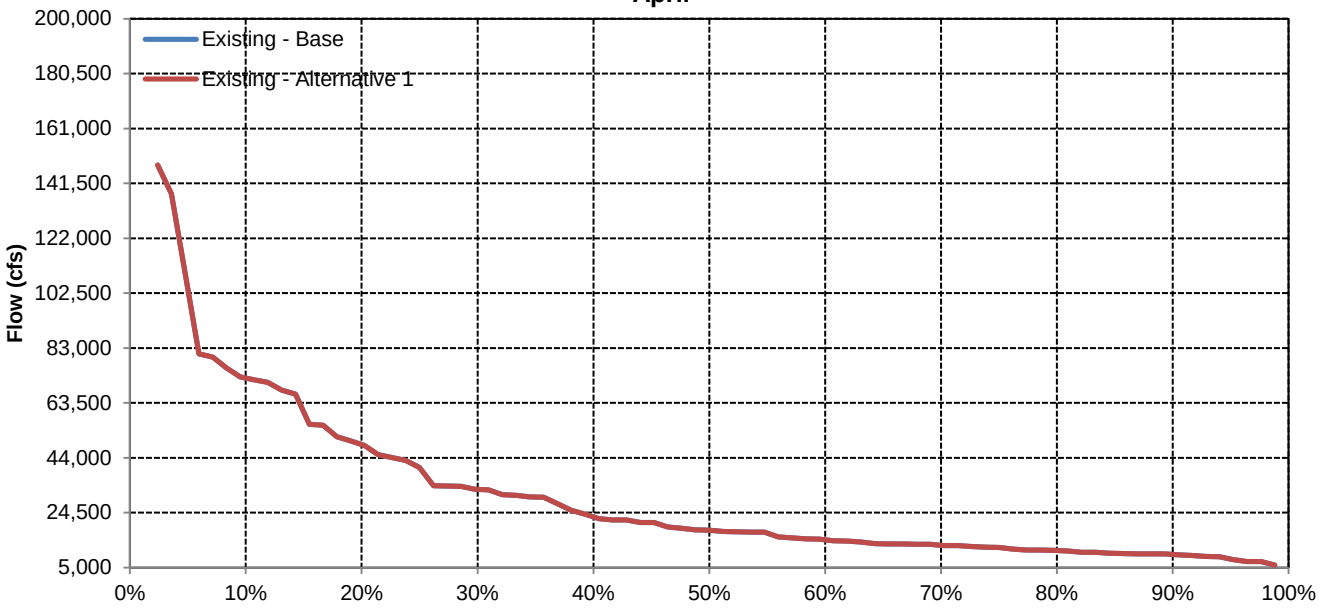


March

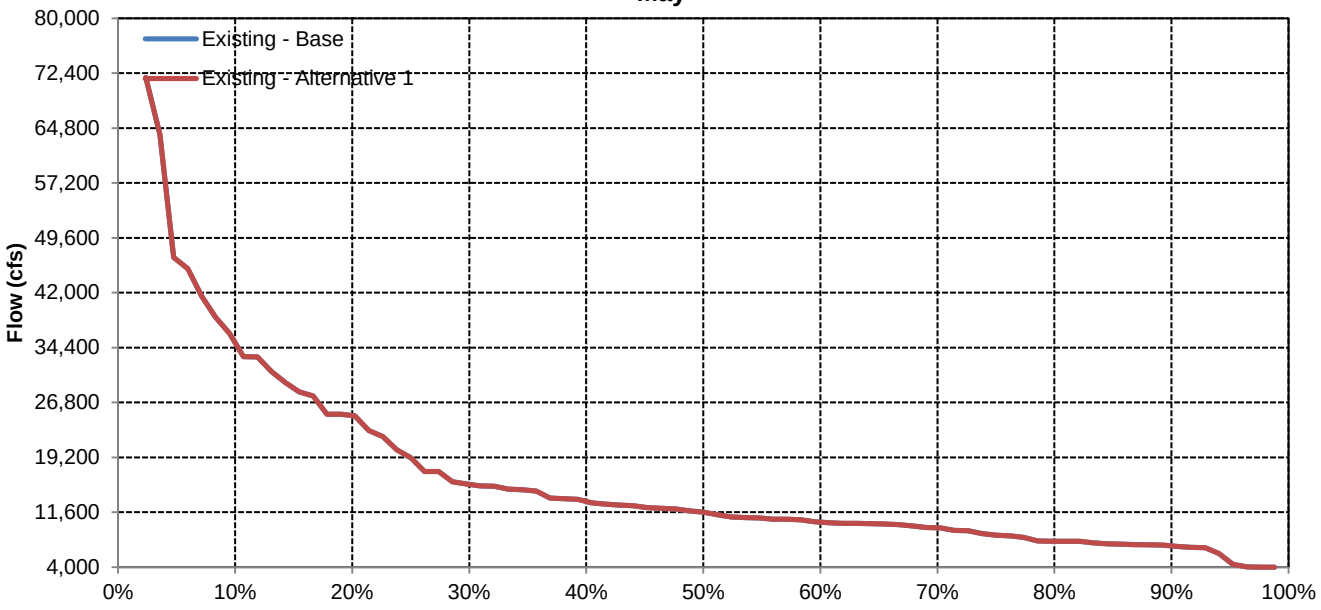


Delta Outflow

April

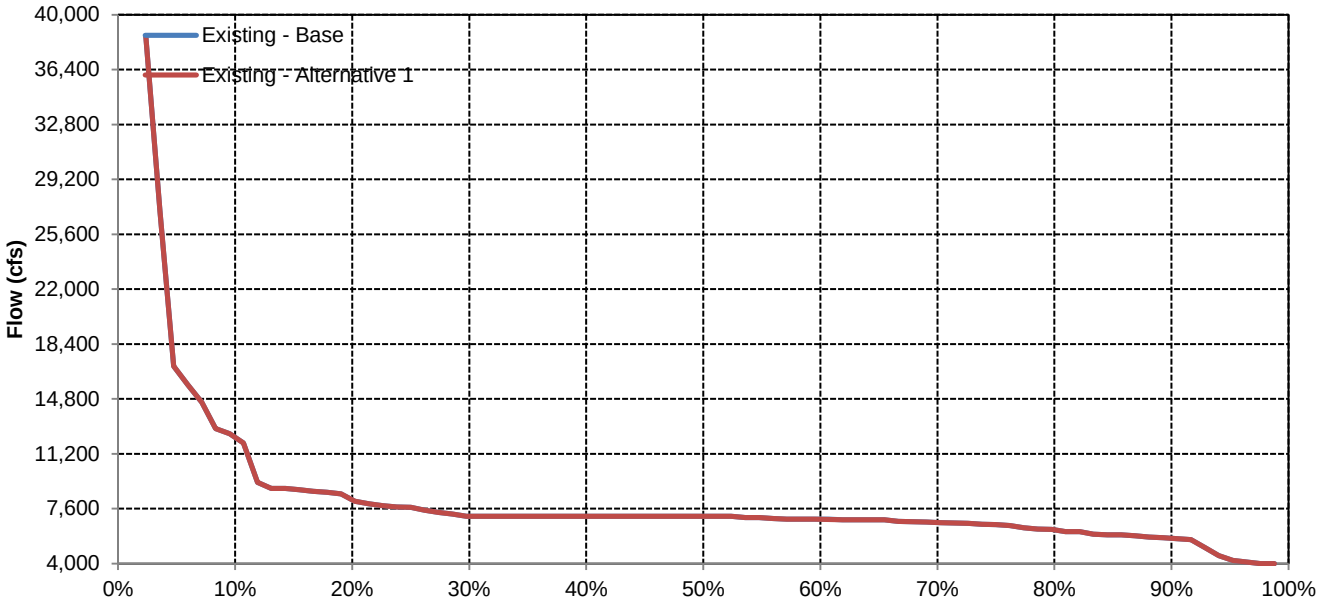


May

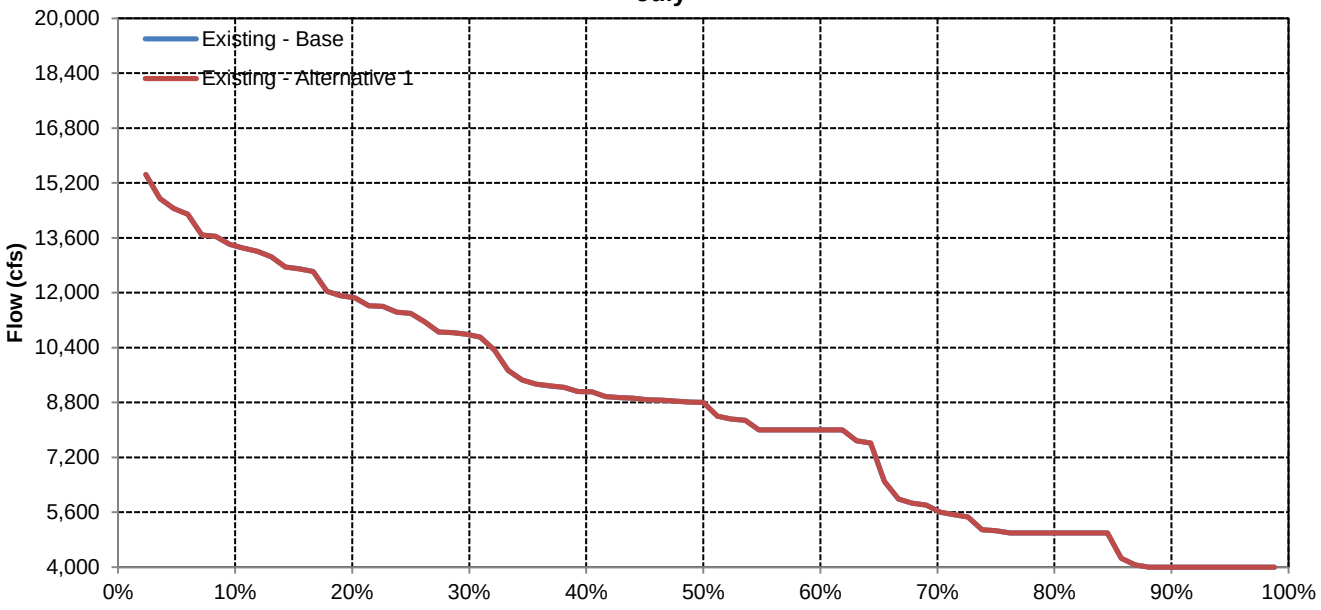


Delta Outflow

June

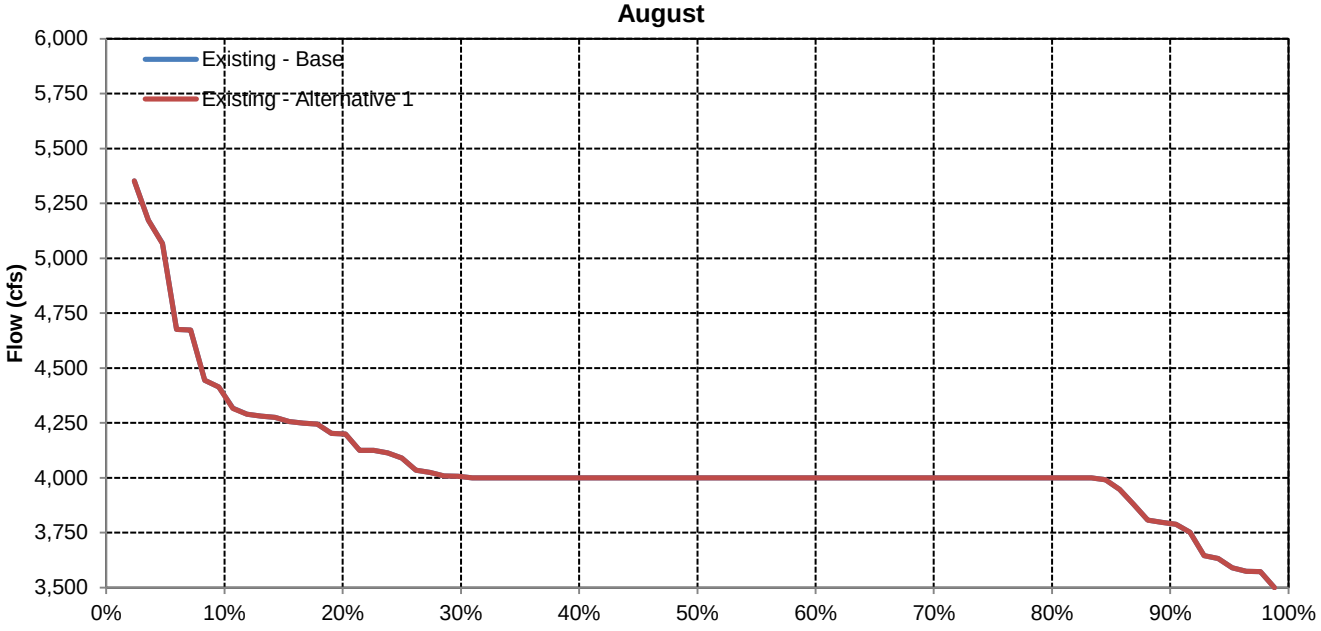


July



Delta Outflow

August



September

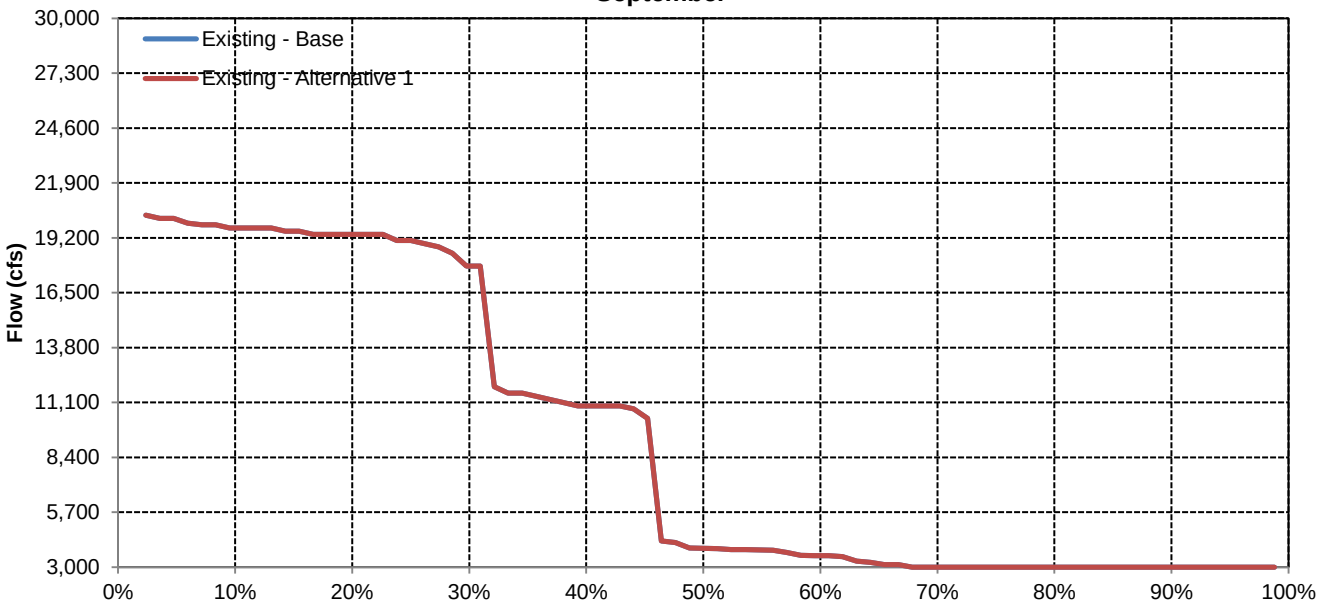


Table 185 Existing Condtions-Alternative 4 (Existing)

Winter-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	November through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Juvenile Rearing and Downstream Movement*	July through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0

Table 186 Existing Condtions-Alternative 4 (Existing)

Spring-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	March through September	Mean Monthly Flow (cfs)	Verona		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juvenile Rearing (and Downstream Movement)	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	October through May	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 187 Existing Condtions-Alternative 4 (Existing)

Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	July through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	December through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				65		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 188 Existing Condtions-Alternative 4 (Existing)

Late Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	October through April	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Juvenile Rearing and Downstream Movement	April through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0

Table 189 Existing Condtions-Alternative 4 (Existing)

Steelhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	August through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	January through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	-1.2	0.0	0.0	0.0			

Table 190 Existing Condtions-Alternative 4 (Existing)

Green Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	February through July	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years					0.0	0.0	0.0	0.0	0.0	0.0		
Adult Post-Spawning Holding and Emigration	July through November	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 191 Existing Condtions-Alternative 4 (Existing)

White Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	November through May	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Freeport	77		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Spawning and Egg Incubation	February through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years					0.0	0.0	0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 192 Existing Condtions-Alternative 4 (Existing)

River Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	September through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 193 Existing Condtions-Alternative 4 (Existing)

Pacific Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	January through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 194 Existing Condtions-Alternative 4 (Existing)

Hardhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adults and Other Lifestages	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adult Spawning	April through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	59-64		All Years							0.0	0.0	0.0			

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 195 Existing Condtions-Alternative 4 (Existing)

American Shad in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
			Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	60-70		All Years							0.0	0.0	0.0			
			Freeport	60-70		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 196 Existing Condtions-Alternative 4 (Existing)

Striped Bass in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	59-68		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-71		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 201 Existing Condtions-Alternative 4 (Existing)

Alternative 4 (Existing) vs Existing Condtions
Sacramento River at Verona, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	85.4	54.9	43.9	39.0	56.1	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	14.6	43.9	56.1	58.5	37.8	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-14.6	-43.9	-56.1	-58.5	-37.8	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	48.5	75.8	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	45.5	18.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-45.5	-18.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 202 Existing Condtions-Alternative 4 (Existing)

Alternative 4 (Existing) vs Existing Condtions
Sacramento River at Freeport, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	84.1	58.5	45.1	42.7	64.6	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	14.6	41.5	54.9	54.9	30.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-14.6	-41.5	-54.9	-54.9	-30.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	54.5	87.9	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	42.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-42.4	-3.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 4 (Existing) vs Existing Condtions

Sacramento River at Feather River, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 4 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 4 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 4 (Existing) vs Existing Condtions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 4 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 4 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 227 Existing Conditions-Alternative 4 (Existing)

Delta Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years			0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years			63.4	69.5	58.5	67.1	0.0	0.0				
	September through November	Mean Monthly X_2 (RKm)	X_2 between 74 km and 81 km	74-81		Wet and Above Normal Water Years	0.0	0.0										0.0
	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							
Egg and Embryo	February through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years					0.0	0.0	0.0	0.0				
Larval	March through June	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years						0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years						0.0	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years						0.0	0.0	0.0	0.0			
Juvenile	May through July	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years								0.0	0.0	0.0		
		Mean Monthly X_2 (RKm)	Changes in X_2 between RKm 65 and 80	0.5 RKm		All Years								0.0	0.0	0.0		

Table 228 Existing Conditions-Alternative 4 (Existing)

Longfin Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through March	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0	0.0						
Larvae and Juvenile	April and May	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years							0.0	0.0				
				< 0 cfs		Dry and Critical Water Years							0.0	0.0				
	January through June	Mean Monthly X_2 (RKm)	X_2	< 75 RKm		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				< 75 RKm		Dry and Critical Water Years				0.0	0.0	0.0	0.0	0.0	0.0			

Table 229 Existing Conditions-Alternative 4 (Existing)

Winter-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through May	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	67.1	0.0	0.0				
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 230 Existing Conditions-Alternative 4 (Existing)

Spring-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 231 Existing Conditions-Alternative 4 (Existing)

Fall- and Late Fall-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Adult (San Joaquin River)	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							

Table 232 Existing Conditions-Alternative 4 (Existing)

Steelhead in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	October through July	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0	0.0		
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 233 Existing Conditions-Alternative 4 (Existing)

Green Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	Year-round	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 234 Existing Conditions-Alternative 4 (Existing)

White Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	April through June	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0			

Table 235 Existing Conditions-Alternative 4 (Existing)

Splittail in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Spawning and Embryo Incubation	February through May	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years					58.5	67.1	0.0	0.0				
Juvenile Rearing and Emigration	April through July	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0	0.0		

Table 236 Existing Conditions-Alternative 4 (Existing)

American Shad in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Table 237 Existing Conditions-Alternative 4 (Existing)

Striped Bass in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 4 (Existing) relative to Existing Conditions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Alternative 4 (Existing) vs Existing Conditions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Conditions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 4 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 4 (Existing) - Existing Conditions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 239 Existing Conditions-Alternative 4 (Existing)

Alternative 4 (Existing) vs Existing Conditions
Sacramento River at Rio Vista, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 240 Existing Conditions-Alternative 4 (Existing)

Alternative 4 (Existing) vs Existing Conditions
Yolo Bypass, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	30.5	18.3	28.0	20.7	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	69.5	69.5	81.7	72.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	69.5	81.7	72.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	67.1	63.4	69.5	58.5	67.1	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	75.8	63.6	24.2	30.3	15.2	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0

Table 241 Existing Conditions-Alternative 4 (Existing)

Alternative 4 (Existing) vs Existing Conditions
Delta Outflow, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Long-Term and Water Year-Type Average of Sacramento River Delta Inflow Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482	15,659
Existing - Alternative 5	11,300	15,639	23,940	33,568	41,092	35,060	22,062	13,364	12,597	19,584	13,697	16,482	15,530
Difference	0	-107	-369	-653	-691	-334	0	0	0	0	0	0	-128
Percent Difference	0%	-1%	-2%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010	22,938
Existing - Alternative 5	13,018	21,792	41,580	55,599	63,384	52,076	36,791	18,384	13,640	21,152	15,520	26,010	22,749
Difference	0	-276	-851	-943	-728	-354	0	0	0	0	0	0	-189
Percent Difference	0%	-1%	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
Above Normal													
Existing - Base	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988	17,937
Existing - Alternative 5	11,695	14,525	22,872	42,737	50,223	45,799	22,271	14,655	13,070	22,489	16,033	18,988	17,759
Difference	0	-41	-340	-1,037	-1,131	-454	0	0	0	0	0	0	-178
Percent Difference	0%	0%	-1%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
Below Normal													
Existing - Base	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013	13,248
Existing - Alternative 5	10,841	14,689	16,299	23,176	31,930	28,698	18,090	11,885	12,782	22,589	15,187	12,013	13,132
Difference	0	-58	-186	-623	-653	-428	0	0	0	0	0	0	-116
Percent Difference	0%	0%	-1%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994	10,852
Existing - Alternative 5	10,423	12,542	14,599	17,439	27,132	22,711	11,912	10,212	12,472	17,228	11,469	10,994	10,771
Difference	0	-24	-87	-289	-666	-316	0	-1	0	0	0	0	-81
Percent Difference	0%	0%	-1%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772	8,039
Existing - Alternative 5	9,148	9,407	11,534	14,731	17,114	14,346	10,330	7,910	9,857	12,298	8,422	7,772	8,007
Difference	0	-3	-31	-189	-261	-64	0	0	0	0	0	0	-32
Percent Difference	0%	0%	0%	-1%	-2%	0%	0%	0%	0%	0%	0%	0%	0%

Sacramento River Delta Inflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	22,010	56,115	71,084	75,521	65,784	49,402	23,850	14,772	24,306	16,775	28,029
20%	13,619	18,623	35,016	61,750	67,715	57,900	35,366	14,647	13,790	23,675	16,437	24,442
30%	12,912	17,392	24,392	45,490	58,539	48,511	24,073	12,554	13,215	23,166	15,988	22,307
40%	12,254	15,897	19,607	34,106	50,381	38,401	16,613	11,092	12,891	22,072	15,543	18,189
50%	11,265	14,221	17,083	26,083	35,167	28,964	13,801	10,661	12,353	20,699	15,010	13,962
60%	10,411	12,217	14,976	20,006	27,645	22,764	12,349	10,122	11,925	19,938	14,452	12,771
70%	8,888	10,901	14,365	15,735	23,924	20,351	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,704	13,922	18,176	16,100	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,915	16,074	12,014	9,372	8,228	10,168	12,060	8,272	8,038
Long Term												
Full Simulation Period	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010
Above Normal	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988
Below Normal	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013
Dry	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	21,714	54,922	70,190	75,521	65,700	49,402	23,850	14,772	24,306	16,775	28,030
20%	13,619	18,592	33,852	60,070	66,938	57,360	35,366	14,647	13,791	23,675	16,437	24,444
30%	12,912	17,379	23,897	44,605	57,609	47,841	24,073	12,554	13,215	23,166	15,989	22,307
40%	12,254	15,868	19,393	32,648	49,149	37,016	16,613	11,092	12,891	22,072	15,543	18,189
50%	11,265	14,201	16,798	25,416	33,482	28,585	13,801	10,661	12,352	20,699	15,010	13,962
60%	10,411	12,212	14,925	19,740	26,933	22,580	12,349	10,119	11,925	19,939	14,452	12,771
70%	8,887	10,897	14,324	15,631	23,368	20,261	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,610	10,692	13,904	18,039	16,002	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,209	9,572	11,908	15,970	12,004	9,372	8,228	10,168	12,059	8,273	8,038
Long Term												
Full Simulation Period	11,300	15,639	23,940	33,568	41,092	35,060	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	21,792	41,580	55,599	63,384	52,076	36,791	18,384	13,640	21,152	15,520	26,010
Above Normal	11,695	14,525	22,872	42,737	50,223	45,799	22,271	14,655	13,070	22,489	16,033	18,988
Below Normal	10,841	14,689	16,299	23,176	31,930	28,698	18,090	11,885	12,782	22,589	15,187	12,013
Dry	10,423	12,542	14,599	17,439	27,132	22,711	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,148	9,407	11,534	14,731	17,114	14,346	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-296	-1,193	-894	0	-85	0	0	0	0	0	0
20%	0	-31	-1,164	-1,680	-777	-540	0	0	1	0	0	2
30%	0	-13	-495	-885	-930	-670	0	0	0	0	1	0
40%	0	-29	-213	-1,458	-1,232	-1,385	0	0	0	0	0	0
50%	0	-19	-285	-667	-1,685	-380	0	0	-1	0	0	0
60%	0	-5	-51	-266	-713	-184	0	-3	0	1	0	0
70%	0	-3	-41	-104	-557	-90	0	0	0	0	0	0
80%	0	-3	-12	-17	-137	-97	0	0	0	0	0	0
90%	0	-2	-3	-7	-104	-9	0	0	0	-1	0	0
Long Term												
Full Simulation Period	0	-107	-369	-653	-691	-334	0	0	0	0	0	0
Water Year Types												
Wet	0	-276	-851	-943	-728	-354	0	0	0	0	0	0
Above Normal	0	-41	-340	-1,037	-1,131	-454	0	0	0	0	0	0
Below Normal	0	-58	-186	-623	-653	-428	0	0	0	0	0	0
Dry	0	-24	-87	-289	-666	-316	0	-1	0	0	0	0
Critical	0	-3	-31	-189	-261	-64	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Existing - Alternative 5	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Existing - Alternative 5	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Existing - Alternative 5	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Existing - Alternative 5	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Existing - Alternative 5	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Existing - Alternative 5	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,634	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,633	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Existing - Alternative 5	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Existing - Alternative 5	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Existing - Alternative 5	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Existing - Alternative 5	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Existing - Alternative 5	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Existing - Alternative 5	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,081	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,080	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	-1	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Existing - Alternative 5	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Existing - Alternative 5	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Existing - Alternative 5	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Existing - Alternative 5	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Existing - Alternative 5	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Existing - Alternative 5	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Existing - Alternative 5	4,044	3,416	3,460	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Existing - Alternative 5	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Existing - Alternative 5	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272	2,458
Existing - Alternative 5	4,050	3,353	3,446	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272	2,458
Difference	0	0	2	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Existing - Alternative 5	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Existing - Alternative 5	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	592	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,035	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,448	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,205	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	593	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,034	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,449	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,205	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,460	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,446	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	2	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Fremont Weir Spill to Yolo Bypass Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0	1,933
Existing - Alternative 5	114	368	3,007	9,142	13,903	7,270	1,024	20	0	0	0	0	2,062
Difference	0	111	373	657	699	336	0	0	0	0	0	0	130
Percent Difference	0%	43%	14%	8%	5%	5%	0%	0%	0%	0%	0%	0%	7%
							Water Year-Types						
Wet													
Existing - Base	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0	5,472
Existing - Alternative 5	374	1,132	8,540	26,404	37,106	18,861	3,244	64	0	0	0	0	5,664
Difference	0	288	862	957	737	355	0	0	0	0	0	0	192
Percent Difference	0%	34%	11%	4%	2%	2%	0%	0%	0%	0%	0%	0%	4%
Above Normal													
Existing - Base	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0	1,470
Existing - Alternative 5	0	41	2,348	5,592	11,415	8,281	33	0	0	0	0	0	1,650
Difference	0	41	340	1,042	1,145	458	0	0	0	0	0	0	180
Percent Difference	0%	0%	17%	23%	11%	6%	0%	0%	0%	0%	0%	0%	12%
Below Normal													
Existing - Base	0	0	0	291	2,453	501	143	0	0	0	0	0	196
Existing - Alternative 5	0	58	186	915	3,117	932	143	0	0	0	0	0	313
Difference	0	58	186	624	664	431	0	0	0	0	0	0	117
Percent Difference	0%	0%	0%	215%	27%	86%	0%	0%	0%	0%	0%	0%	60%
Dry													
Existing - Base	0	0	0	0	537	224	0	0	0	0	0	0	44
Existing - Alternative 5	0	24	87	289	1,207	541	0	0	0	0	0	0	125
Difference	0	24	87	289	670	316	0	0	0	0	0	0	82
Percent Difference	0%	0%	0%	114410%	125%	141%	0%	0%	0%	0%	0%	0%	187%
Critical													
Existing - Base	0	0	0	0	1	0	0	0	0	0	0	0	0
Existing - Alternative 5	0	4	31	189	262	64	0	0	0	0	0	0	33
Difference	0	4	31	189	261	64	0	0	0	0	0	0	32
Percent Difference	0%	0%	0%	0%	33713%	0%	0%	0%	0%	0%	0%	0%	72799%

Fremont Weir Spill to Yolo Bypass

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	7,950	28,958	47,428	19,929	23	0	0	0	0	0
20%	0	0	17	7,664	20,668	5,676	0	0	0	0	0	0
30%	0	0	0	2,091	7,247	1,385	0	0	0	0	0	0
40%	0	0	0	0	1,768	0	0	0	0	0	0	0
50%	0	0	0	0	23	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0
Water Year Types												
Wet	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0
Above Normal	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0
Below Normal	0	0	0	291	2,453	501	143	0	0	0	0	0
Dry	0	0	0	0	537	224	0	0	0	0	0	0
Critical	0	0	0	0	1	0	0	0	0	0	0	0

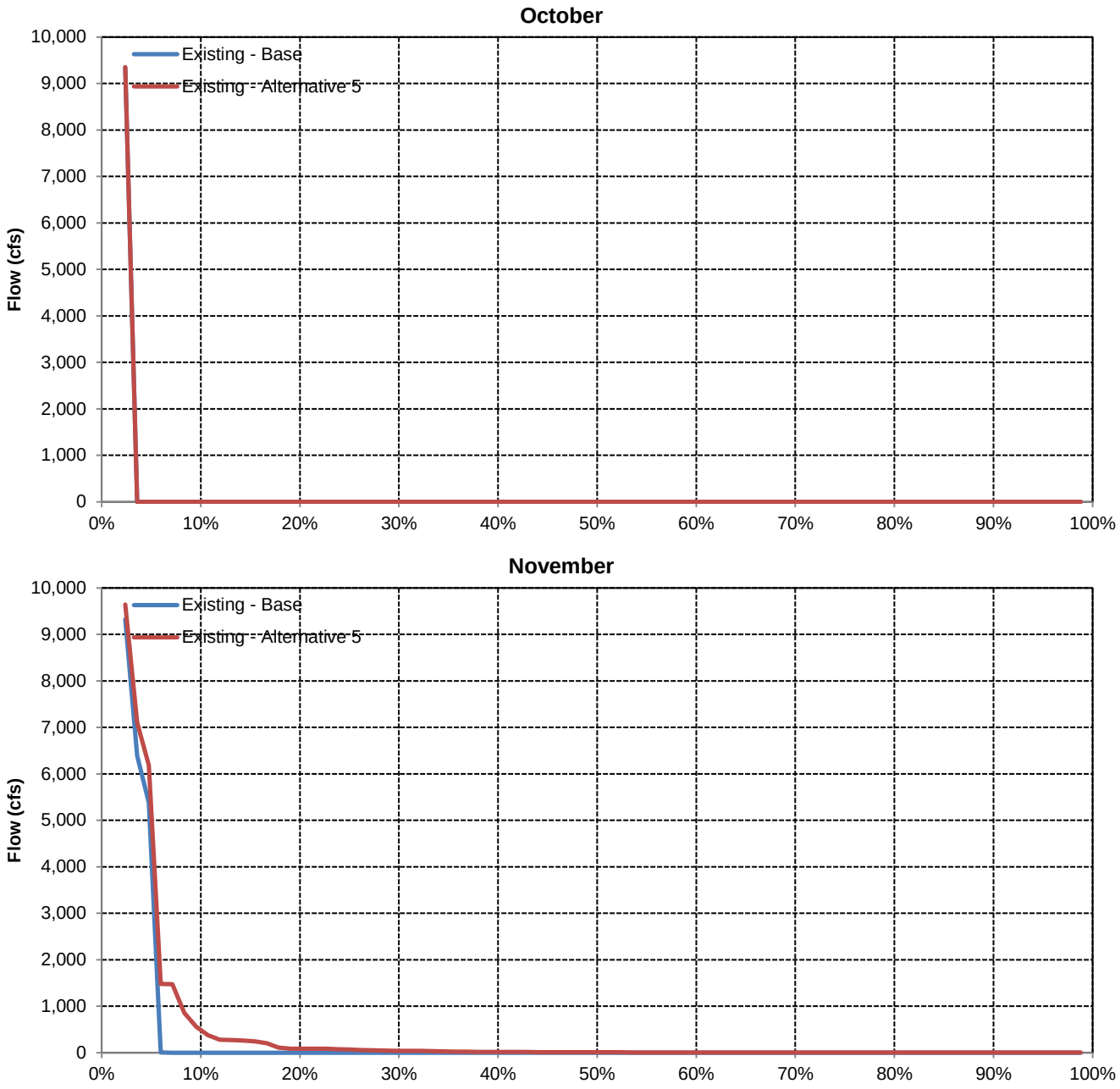
Existing - Alternative 5

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	347	8,872	29,387	48,130	20,014	23	0	0	0	0	0
20%	0	85	1,517	9,074	21,411	6,267	0	0	0	0	0	0
30%	0	38	584	4,207	8,545	2,044	0	0	0	0	0	0
40%	0	16	280	1,759	3,388	1,378	0	0	0	0	0	0
50%	0	9	143	694	2,114	408	0	0	0	0	0	0
60%	0	5	26	293	978	216	0	0	0	0	0	0
70%	0	4	13	75	421	102	0	0	0	0	0	0
80%	0	3	6	24	133	25	0	0	0	0	0	0
90%	0	3	3	9	22	4	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	368	3,007	9,142	13,903	7,270	1,024	20	0	0	0	0
Water Year Types												
Wet	374	1,132	8,540	26,404	37,106	18,861	3,244	64	0	0	0	0
Above Normal	0	41	2,348	5,592	11,415	8,281	33	0	0	0	0	0
Below Normal	0	58	186	915	3,117	932	143	0	0	0	0	0
Dry	0	24	87	289	1,207	541	0	0	0	0	0	0
Critical	0	4	31	189	262	64	0	0	0	0	0	0

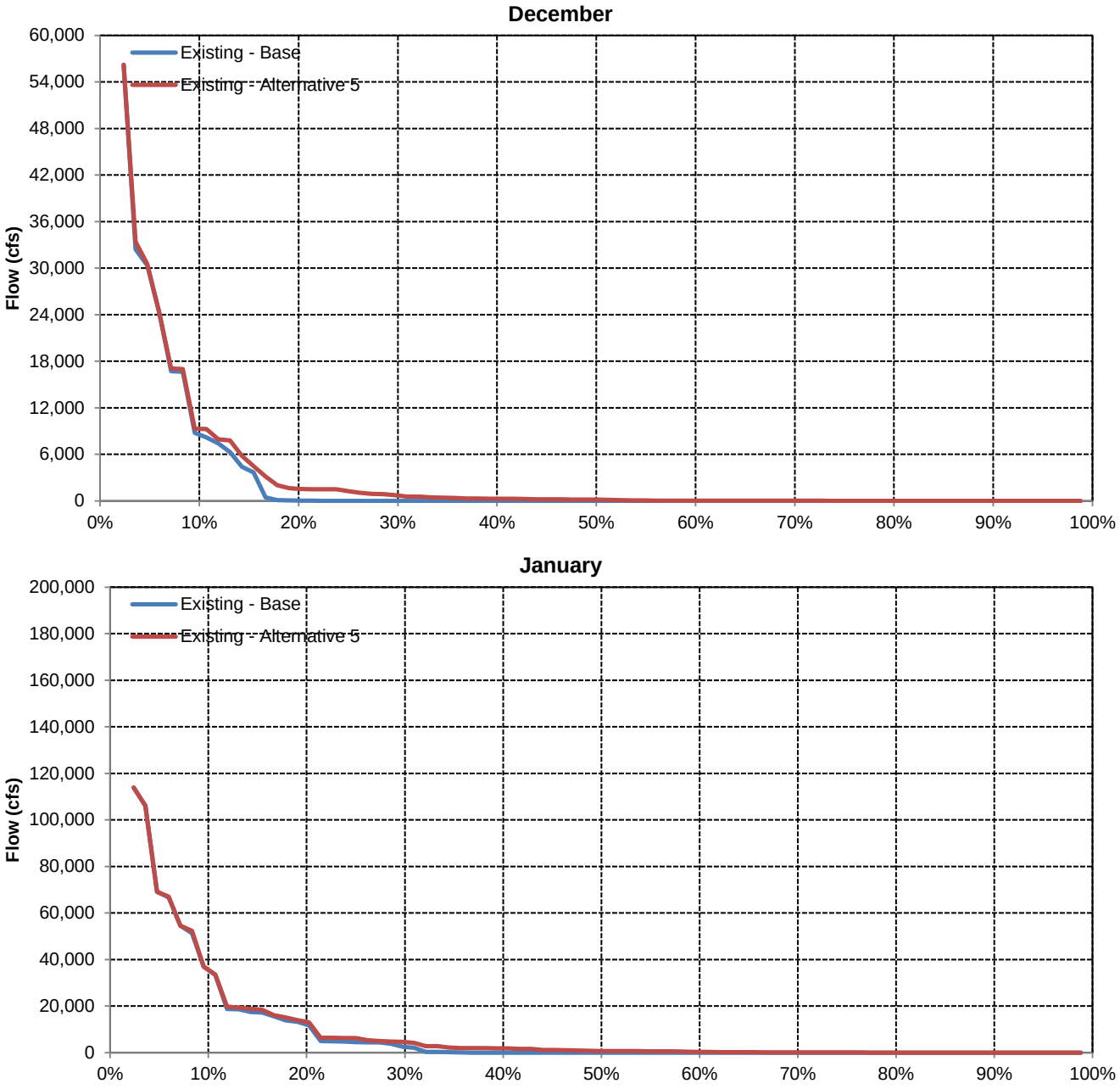
Existing - Alternative 5 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	347	923	429	702	85	0	0	0	0	0	0
20%	0	85	1,500	1,410	743	591	0	0	0	0	0	0
30%	0	38	584	2,116	1,298	659	0	0	0	0	0	0
40%	0	16	280	1,759	1,619	1,378	0	0	0	0	0	0
50%	0	9	143	694	2,090	408	0	0	0	0	0	0
60%	0	5	26	293	978	216	0	0	0	0	0	0
70%	0	4	13	75	421	102	0	0	0	0	0	0
80%	0	3	6	24	133	25	0	0	0	0	0	0
90%	0	3	3	9	22	4	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	111	373	657	699	336	0	0	0	0	0	0
Water Year Types												
Wet	0	288	862	957	737	355	0	0	0	0	0	0
Above Normal	0	41	340	1,042	1,145	458	0	0	0	0	0	0
Below Normal	0	58	186	624	664	431	0	0	0	0	0	0
Dry	0	24	87	289	670	316	0	0	0	0	0	0
Critical	0	4	31	189	261	64	0	0	0	0	0	0

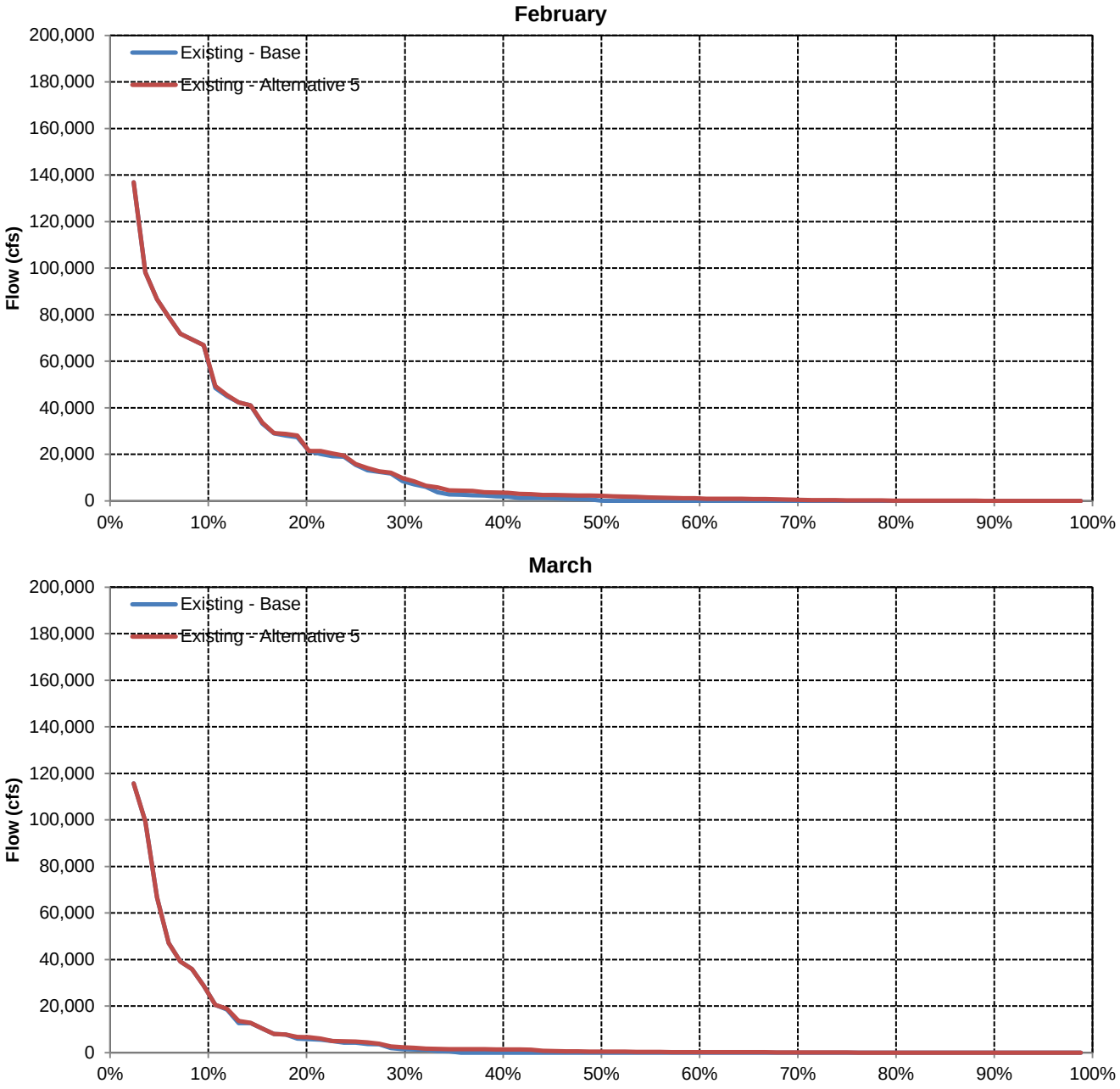
Fremont Weir Spill to Yolo Bypass



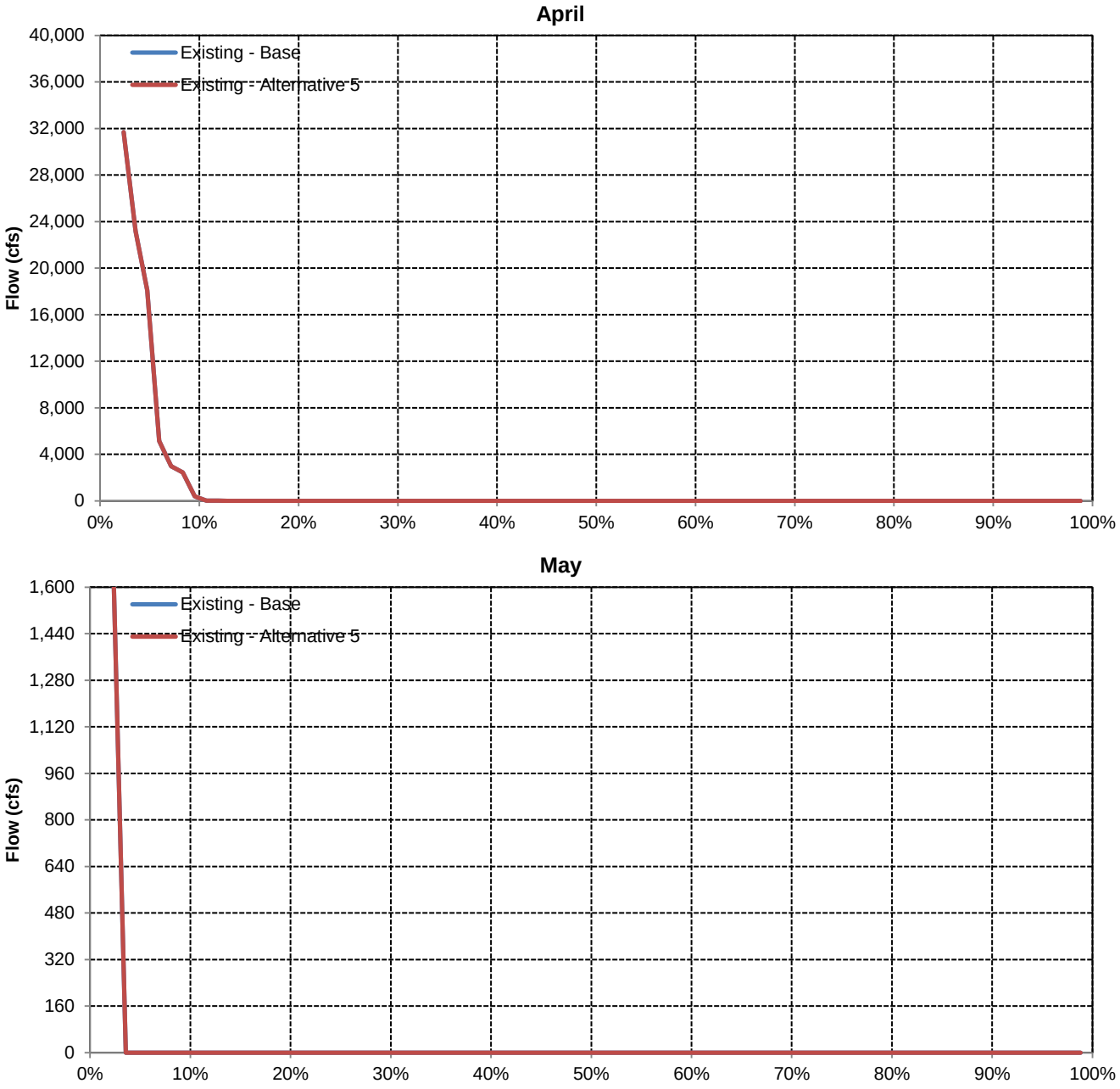
Fremont Weir Spill to Yolo Bypass



Fremont Weir Spill to Yolo Bypass

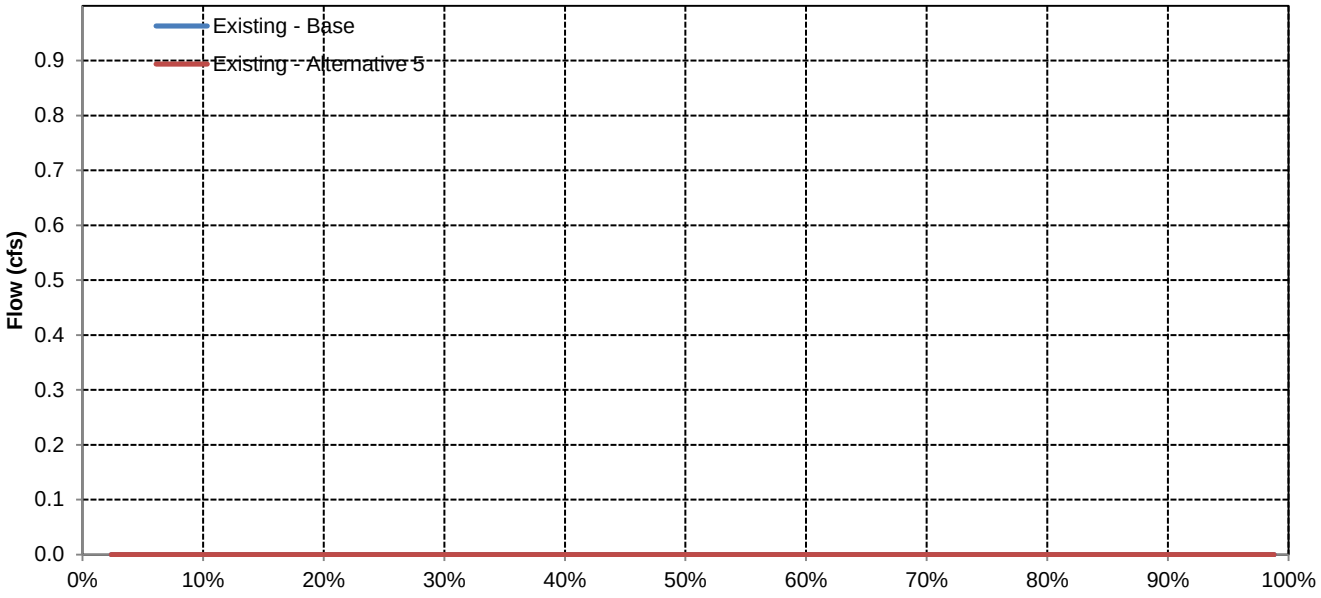


Fremont Weir Spill to Yolo Bypass

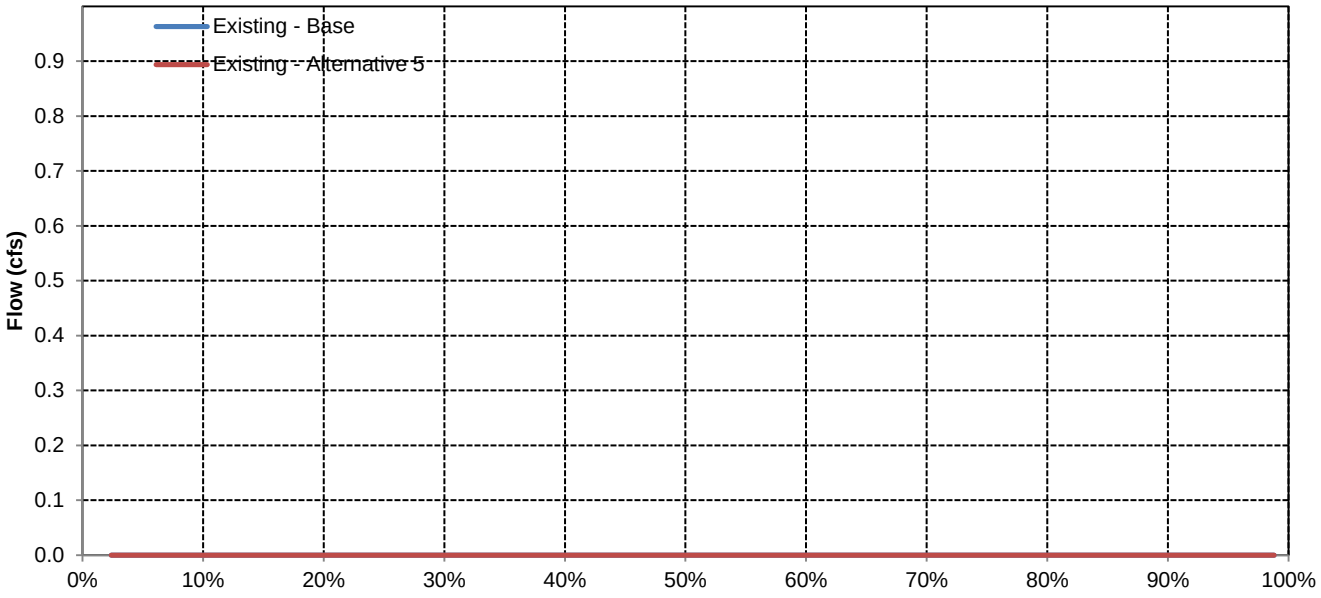


Fremont Weir Spill to Yolo Bypass

June

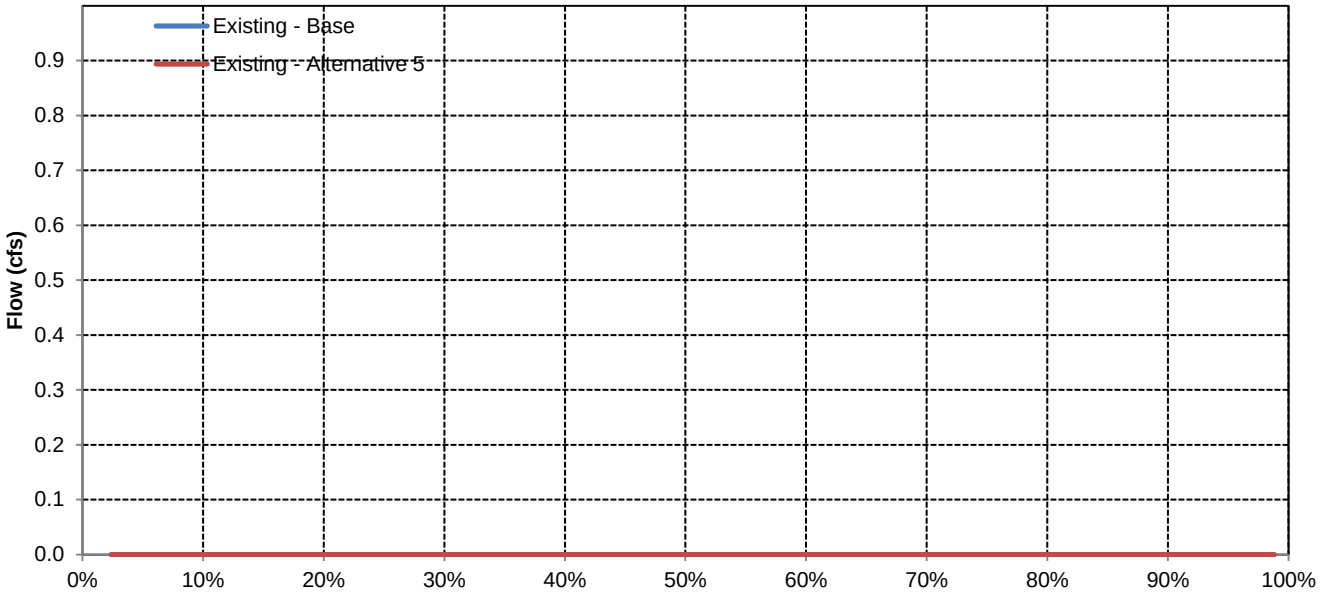


July

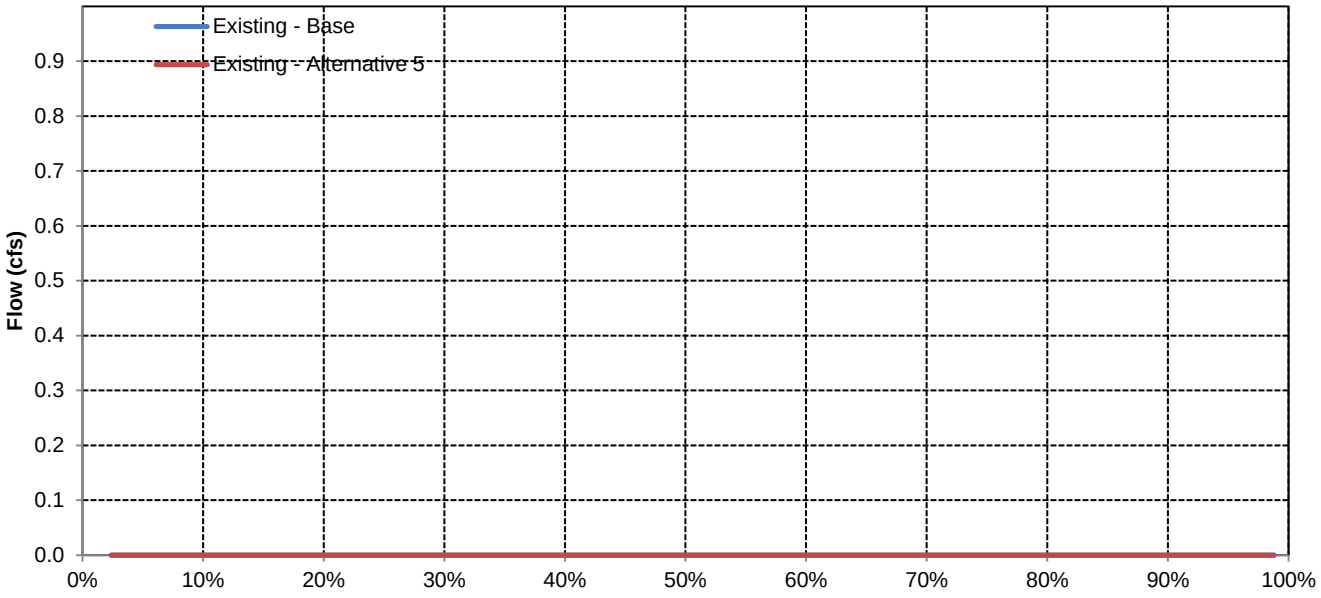


Fremont Weir Spill to Yolo Bypass

August



September



Long-Term and Water Year-Type Average of Sacramento River below Fremont Weir Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753	13,226
Existing - Alternative 5	9,484	12,399	19,354	27,876	34,181	29,731	18,487	11,524	11,174	16,563	12,346	14,753	13,097
Difference	0	-111	-372	-657	-699	-336	0	0	0	0	0	0	-130
Percent Difference	0%	-1%	-2%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
							Water Year-Types						
Wet													
Existing - Base	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821	19,273
Existing - Alternative 5	10,891	16,894	33,733	46,432	53,422	44,462	30,280	15,515	11,984	17,719	13,701	22,821	19,081
Difference	0	-288	-862	-957	-737	-355	0	0	0	0	0	0	-192
Percent Difference	0%	-2%	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
Above Normal													
Existing - Base	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430	15,325
Existing - Alternative 5	9,877	12,016	18,937	35,283	41,722	39,549	19,128	12,828	11,814	18,508	14,754	17,430	15,145
Difference	0	-41	-340	-1,042	-1,145	-458	0	0	0	0	0	0	-180
Percent Difference	0%	0%	-2%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%	-1%
Below Normal													
Existing - Base	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737	11,081
Existing - Alternative 5	9,114	11,641	12,715	19,114	25,509	23,299	15,308	10,497	11,507	18,684	13,981	10,737	10,964
Difference	0	-58	-186	-624	-664	-431	0	0	0	0	0	0	-117
Percent Difference	0%	0%	-1%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Dry													
Existing - Base	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040	9,128
Existing - Alternative 5	8,797	10,259	11,794	14,106	22,210	18,995	9,957	8,685	10,655	14,790	10,143	10,040	9,046
Difference	0	-24	-87	-289	-670	-316	0	-1	0	0	0	0	-82
Percent Difference	0%	0%	-1%	-2%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
Critical													
Existing - Base	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241	7,035
Existing - Alternative 5	7,603	7,346	9,301	12,587	14,801	12,651	9,151	7,145	9,068	11,571	7,736	7,241	7,003
Difference	0	-3	-31	-189	-261	-64	0	0	0	0	0	0	-32
Percent Difference	0%	0%	0%	-1%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%

Sacramento River below Fremont Weir

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,867	45,100	57,729	61,959	57,591	41,031	20,423	13,312	19,786	15,641	24,263
20%	11,568	15,291	30,157	49,978	58,550	49,208	29,852	12,476	12,632	19,450	14,918	21,584
30%	10,868	14,177	20,670	38,268	45,964	41,694	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,419	16,827	30,451	40,042	32,187	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,470	14,375	20,927	29,701	24,238	11,811	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,242	12,138	16,320	24,021	20,650	10,617	8,809	10,372	17,239	13,030	11,383
70%	7,401	8,651	11,421	13,695	18,359	16,099	9,968	8,553	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,557	11,396	14,745	13,147	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,140	12,940	10,022	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430
Below Normal	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737
Dry	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241

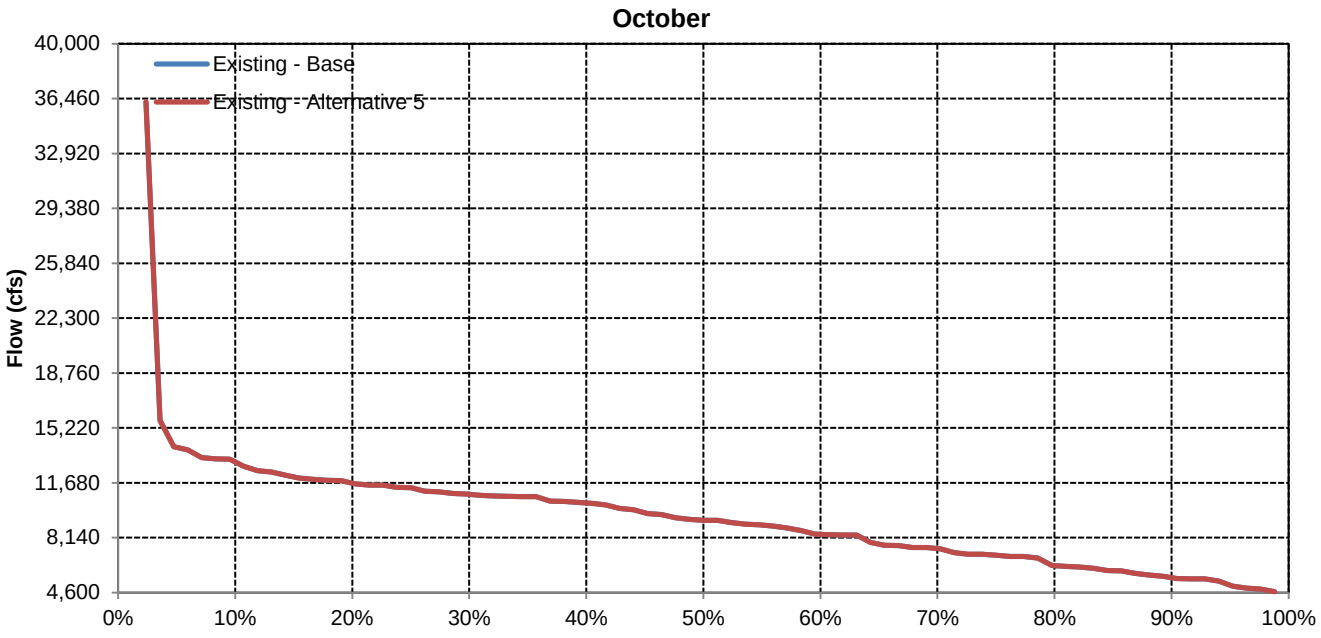
Existing - Alternative 5

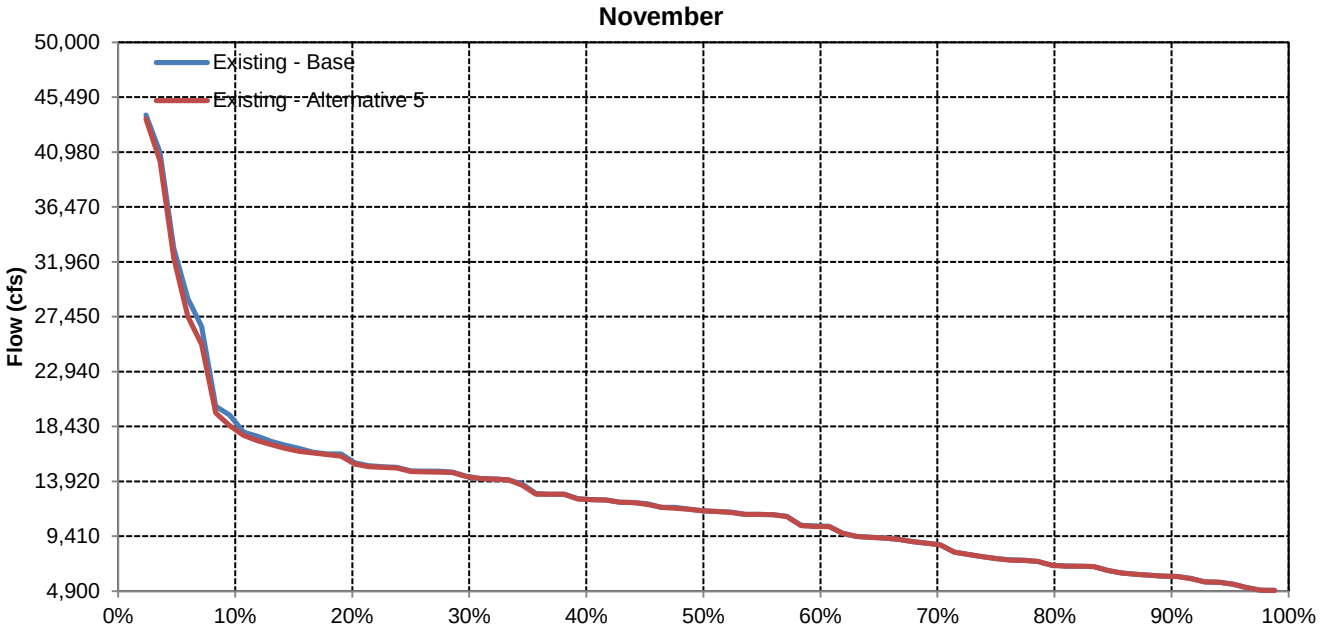
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,558	43,477	57,069	61,959	57,529	41,031	20,423	13,309	19,786	15,641	24,263
20%	11,568	15,206	28,614	48,677	58,150	48,784	29,853	12,476	12,632	19,450	14,919	21,584
30%	10,868	14,163	20,121	35,952	45,022	40,984	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,411	16,652	28,721	38,139	31,683	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,465	14,245	20,361	28,486	24,023	11,812	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,198	12,118	15,998	23,161	20,266	10,617	8,809	10,372	17,239	13,029	11,383
70%	7,401	8,648	11,412	13,655	18,084	16,063	9,968	8,553	10,029	15,866	11,157	9,527
80%	6,330	6,995	8,552	11,373	14,658	13,098	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,106	7,164	10,133	12,911	10,017	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,399	19,354	27,876	34,181	29,731	18,487	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	16,894	33,733	46,432	53,422	44,462	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,016	18,937	35,283	41,722	39,549	19,128	12,828	11,814	18,508	14,754	17,430
Below Normal	9,114	11,641	12,715	19,114	25,509	23,299	15,308	10,497	11,507	18,684	13,981	10,737
Dry	8,797	10,259	11,794	14,106	22,210	18,995	9,957	8,685	10,655	14,790	10,143	10,040
Critical	7,603	7,346	9,301	12,587	14,801	12,651	9,151	7,145	9,068	11,571	7,736	7,241

Existing - Alternative 5 Minus Existing - Base

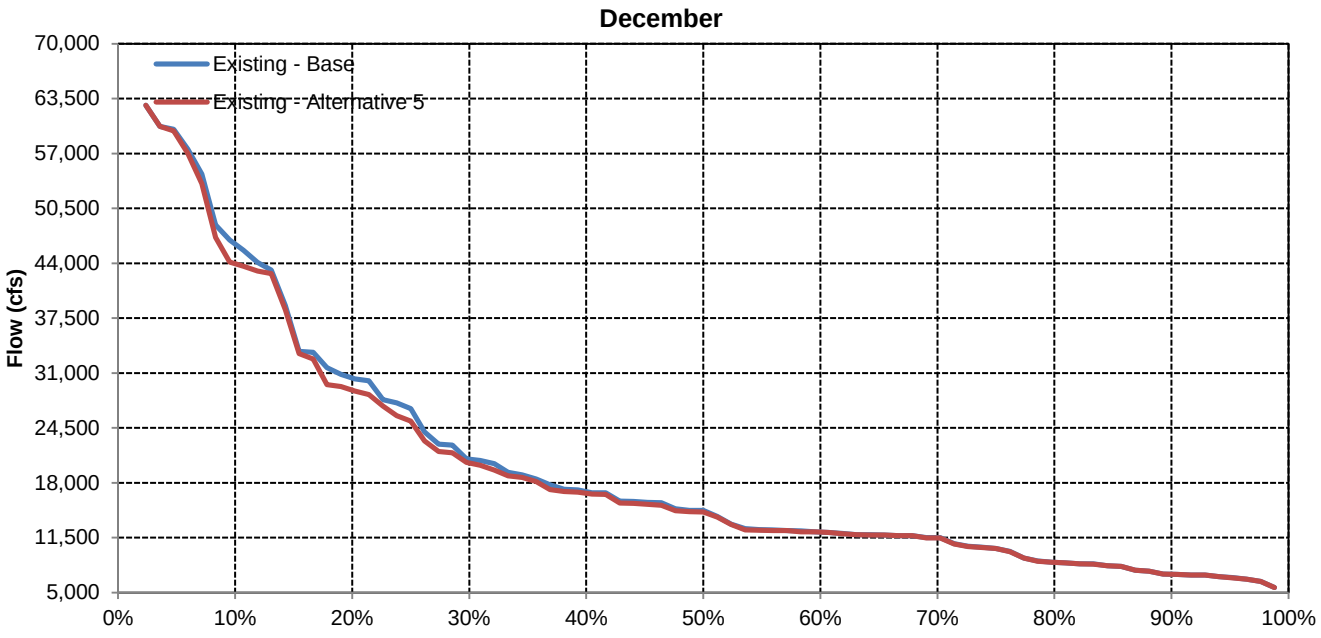
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-308	-1,623	-659	0	-62	0	0	-3	0	0	0
20%	0	-85	-1,543	-1,301	-400	-424	1	0	0	0	0	0
30%	0	-14	-549	-2,316	-942	-709	0	0	0	0	0	0
40%	0	-8	-175	-1,730	-1,903	-504	0	0	0	0	0	0
50%	0	-5	-130	-566	-1,215	-216	0	0	0	0	0	0
60%	0	-44	-19	-322	-860	-384	0	0	0	0	-2	0
70%	0	-4	-10	-41	-275	-36	0	0	0	0	0	0
80%	0	-3	-5	-23	-87	-49	0	0	0	0	0	0
90%	0	-2	-3	-7	-29	-5	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	-111	-372	-657	-699	-336	0	0	0	0	0	0
Water Year Types												
Wet	0	-288	-862	-957	-737	-355	0	0	0	0	0	0
Above Normal	0	-41	-340	-1,042	-1,145	-458	0	0	0	0	0	0
Below Normal	0	-58	-186	-624	-664	-431	0	0	0	0	0	0
Dry	0	-24	-87	-289	-670	-316	0	-1	0	0	0	0
Critical	0	-3	-31	-189	-261	-64	0	0	0	0	0	0

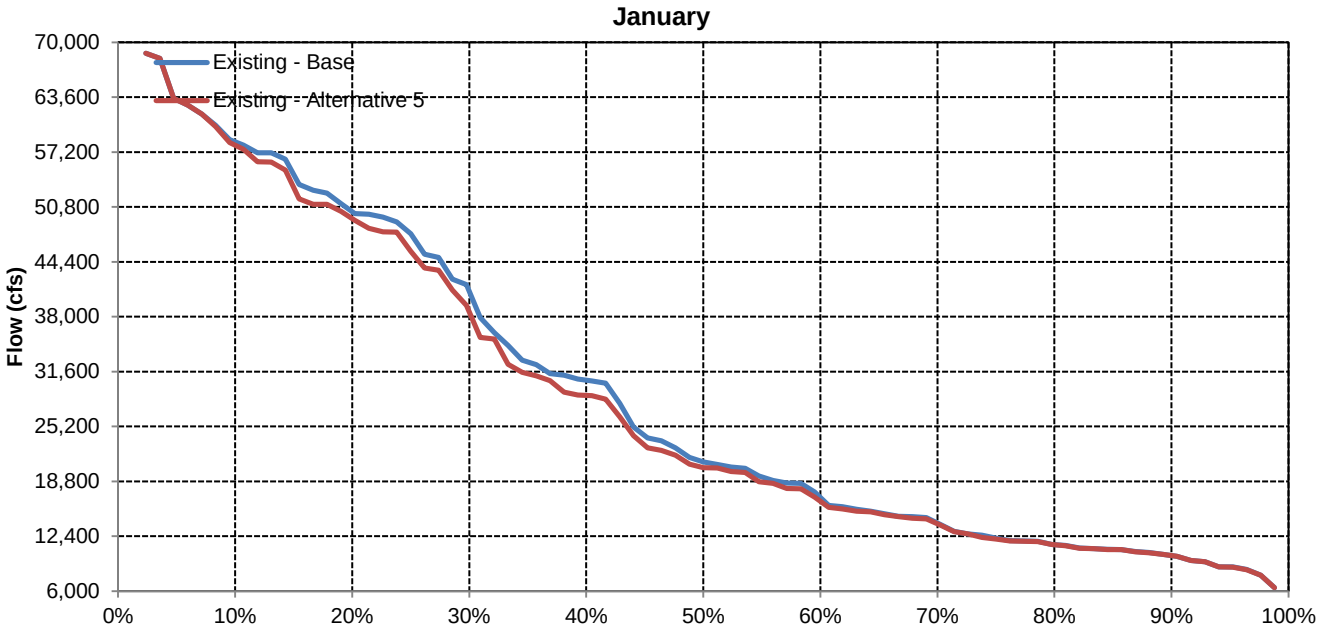
Sacramento River below Fremont Weir



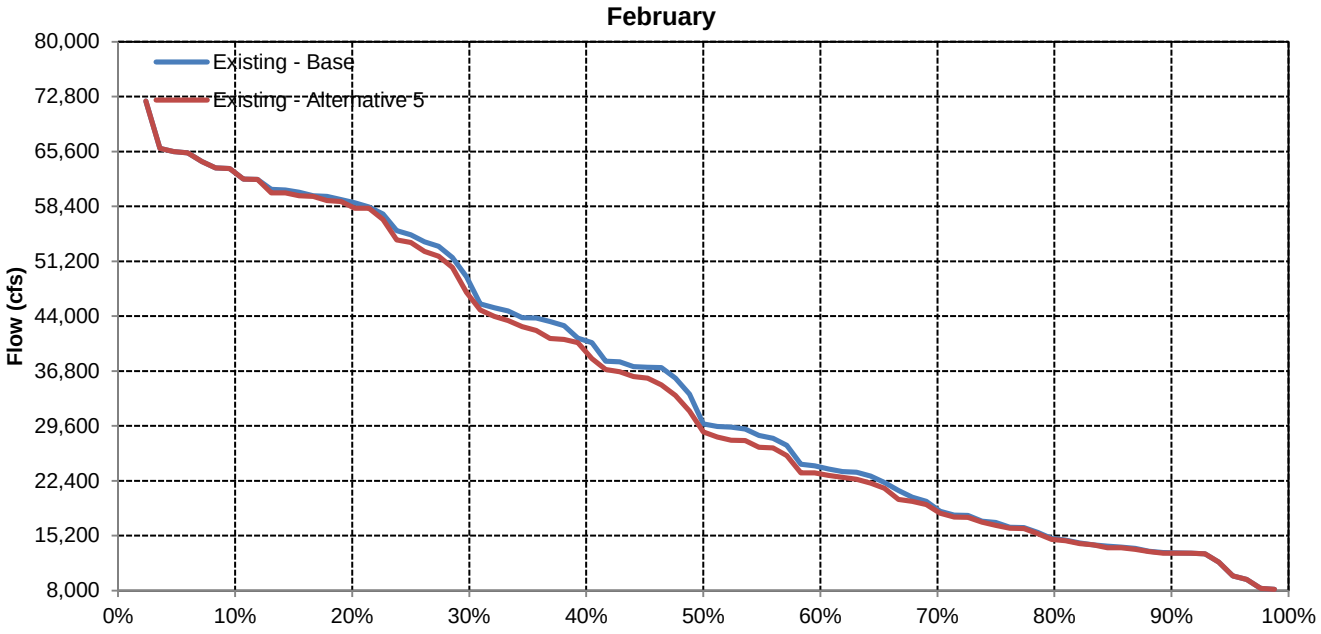


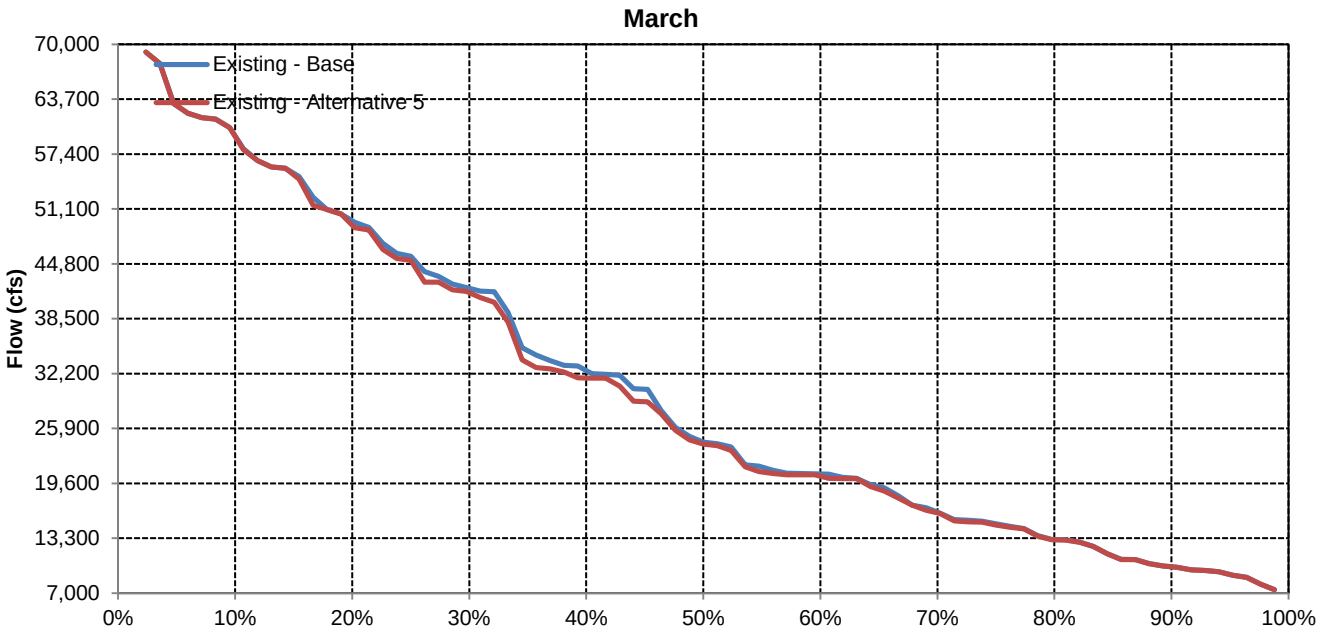
Sacramento River below Fremont Weir



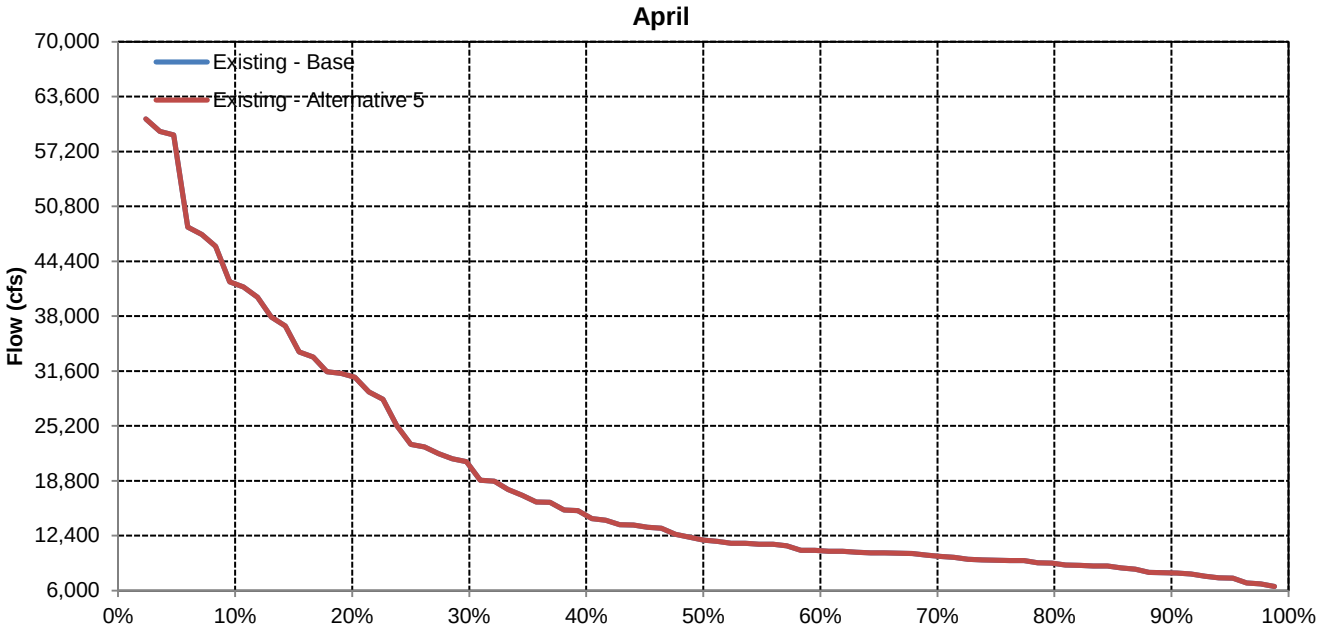


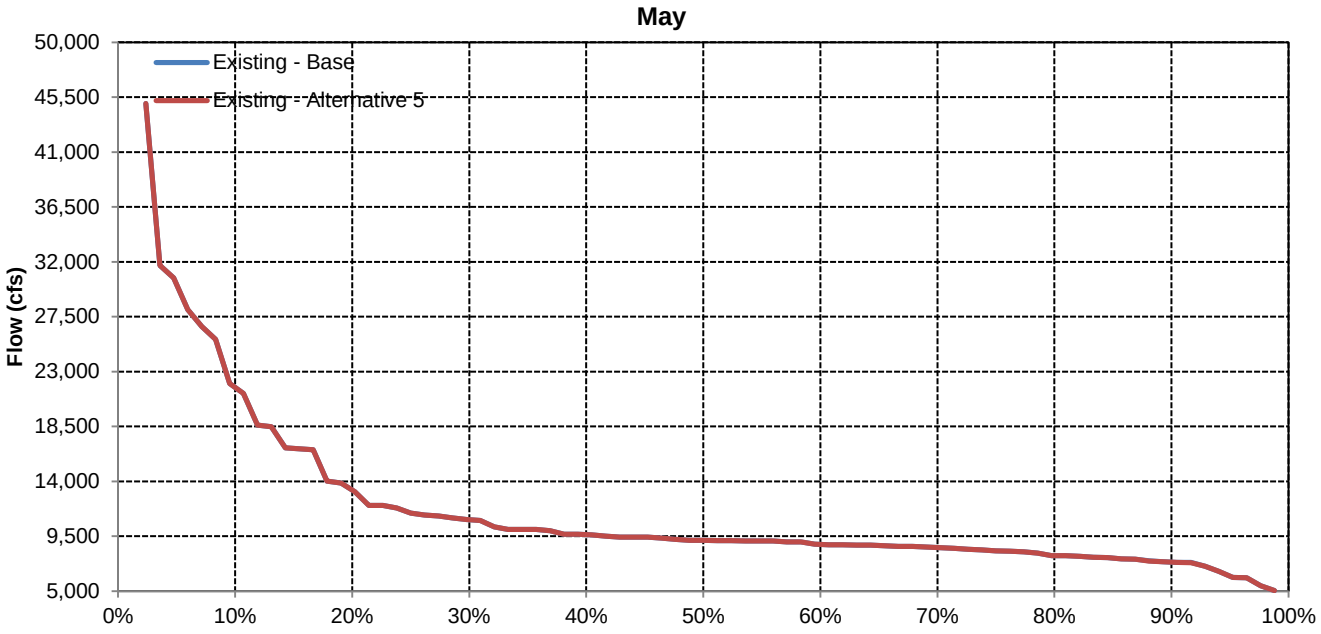
Sacramento River below Fremont Weir





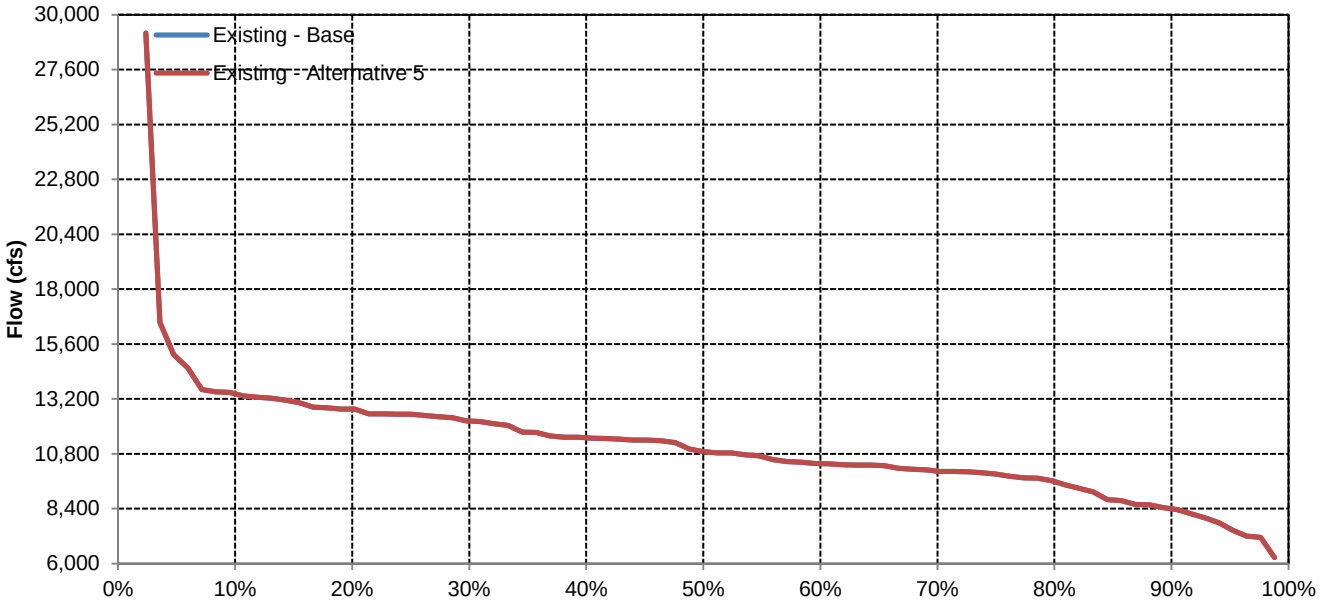
Sacramento River below Fremont Weir



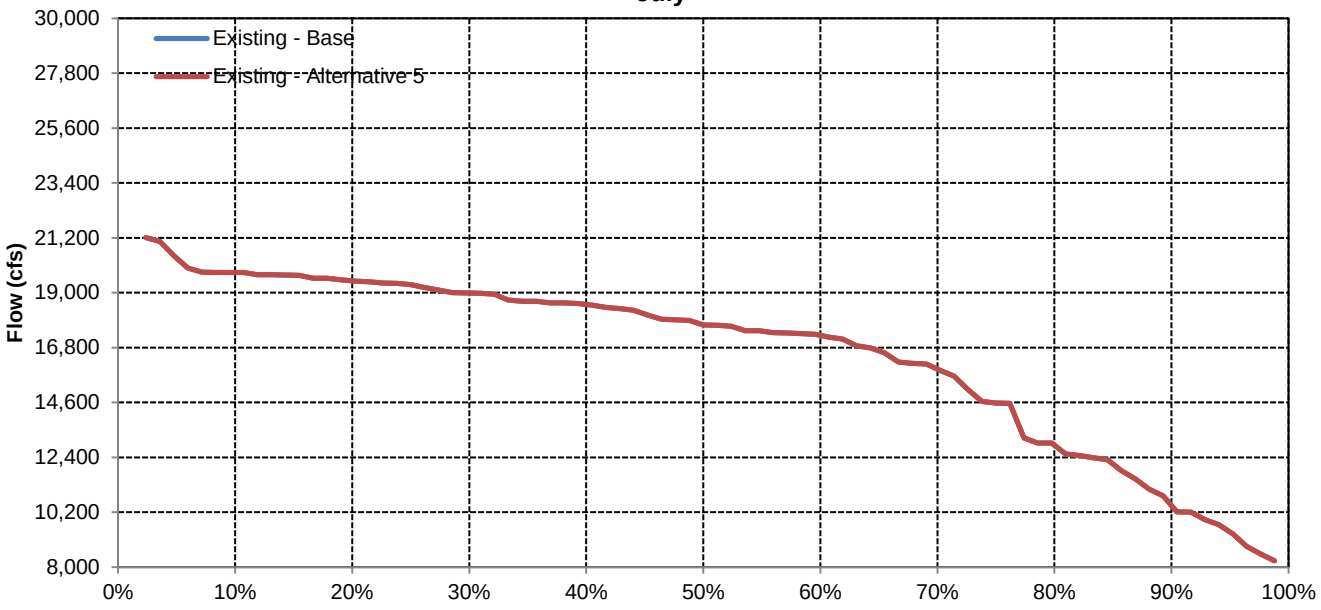


Sacramento River below Fremont Weir

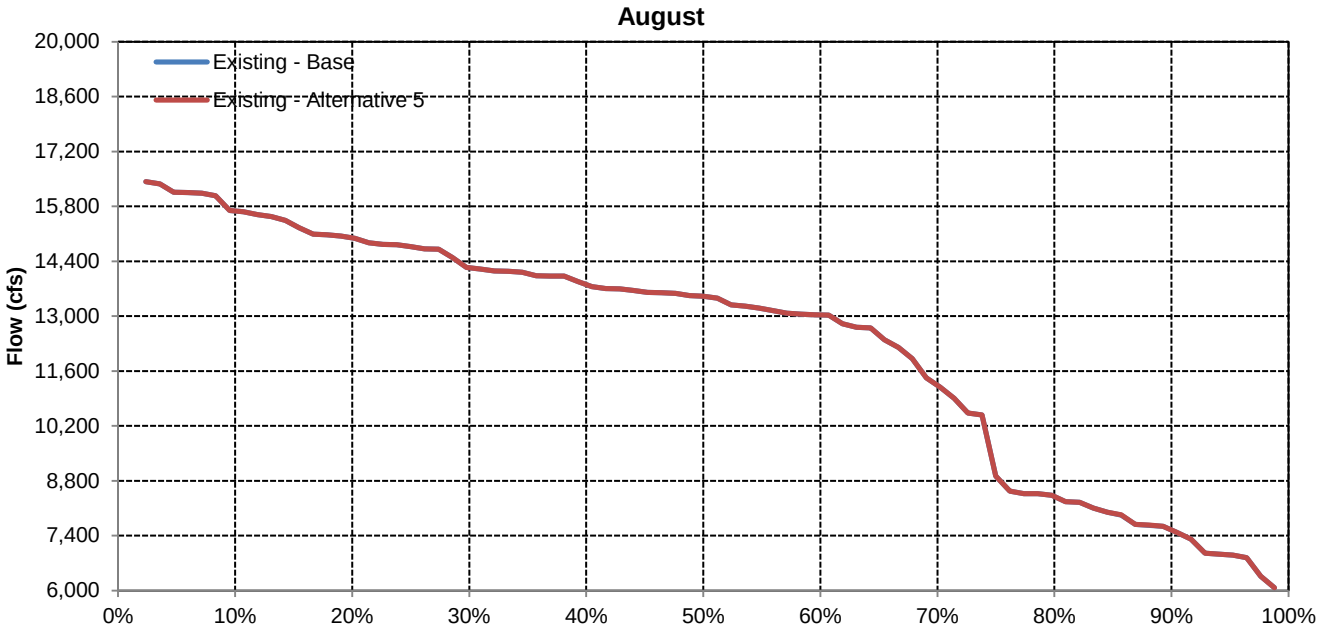
June

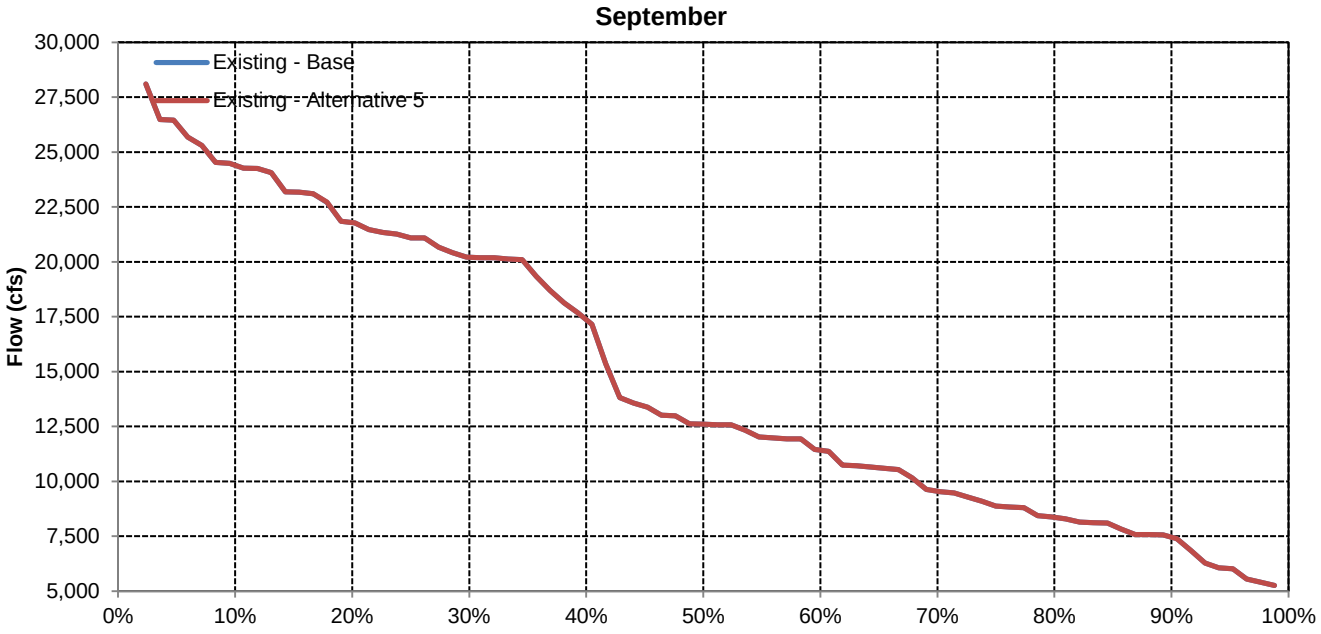


July



Sacramento River below Fremont Weir





Long-Term and Water Year-Type Average of Trinity Reservoir Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Existing - Alternative 5	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Existing - Alternative 5	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Existing - Alternative 5	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Existing - Alternative 5	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Existing - Alternative 5	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Existing - Alternative 5	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Trinity Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 5

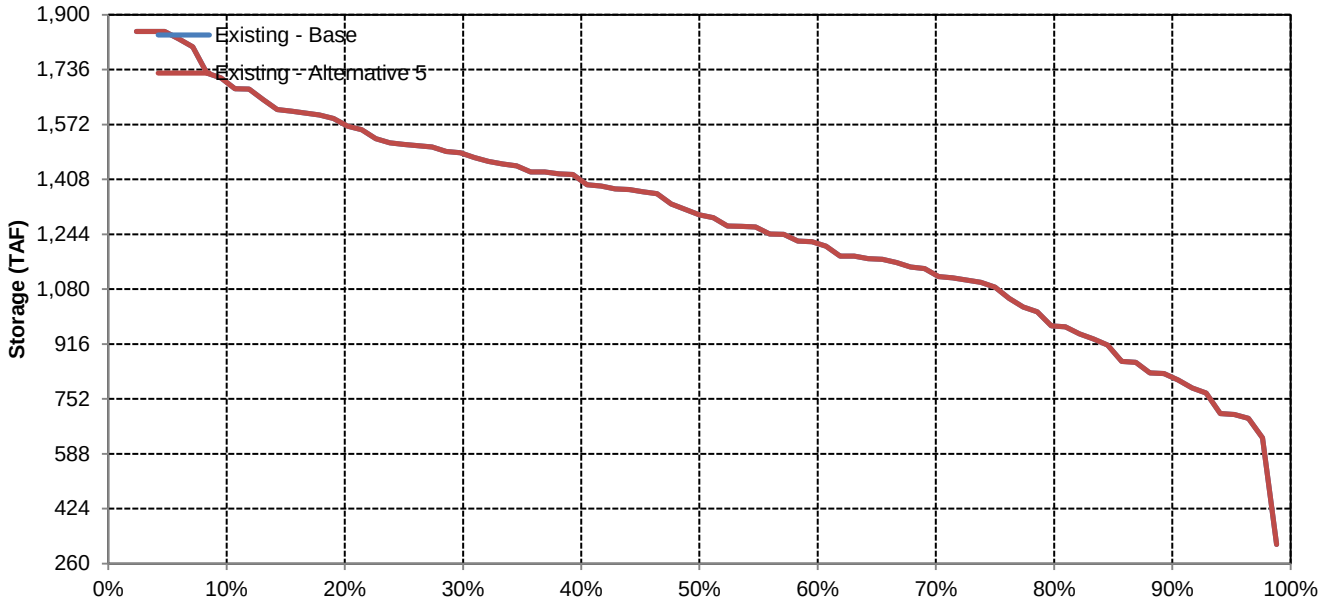
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 5 Minus Existing - Base

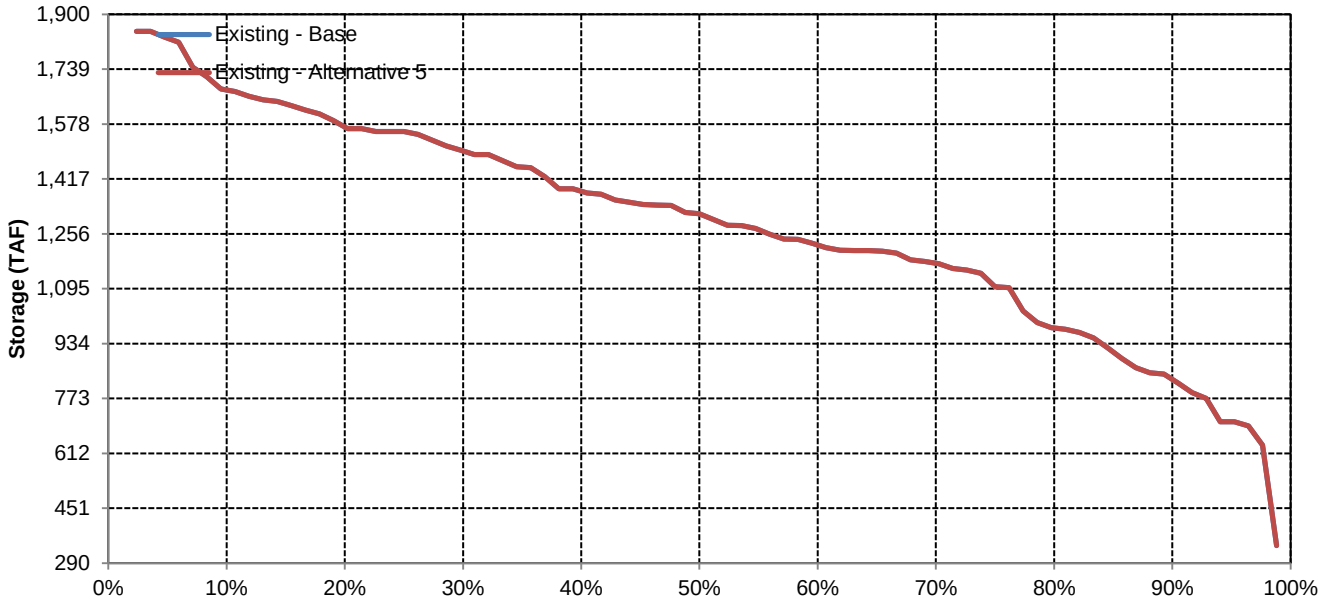
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Trinity Reservoir

October

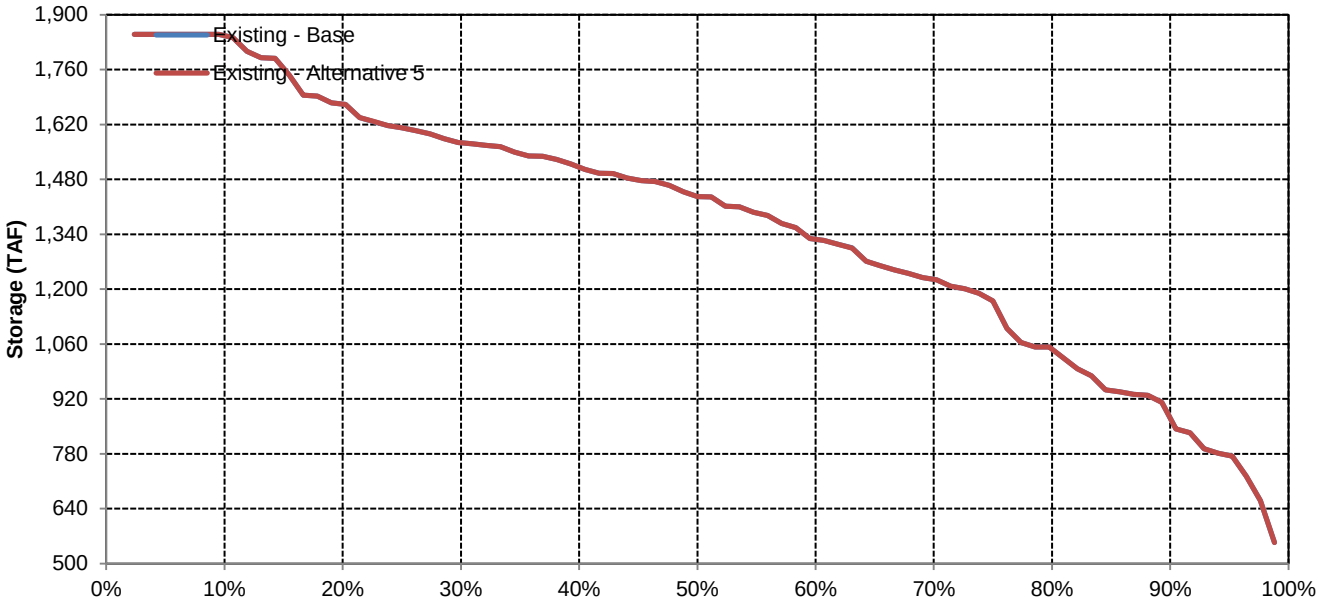


November

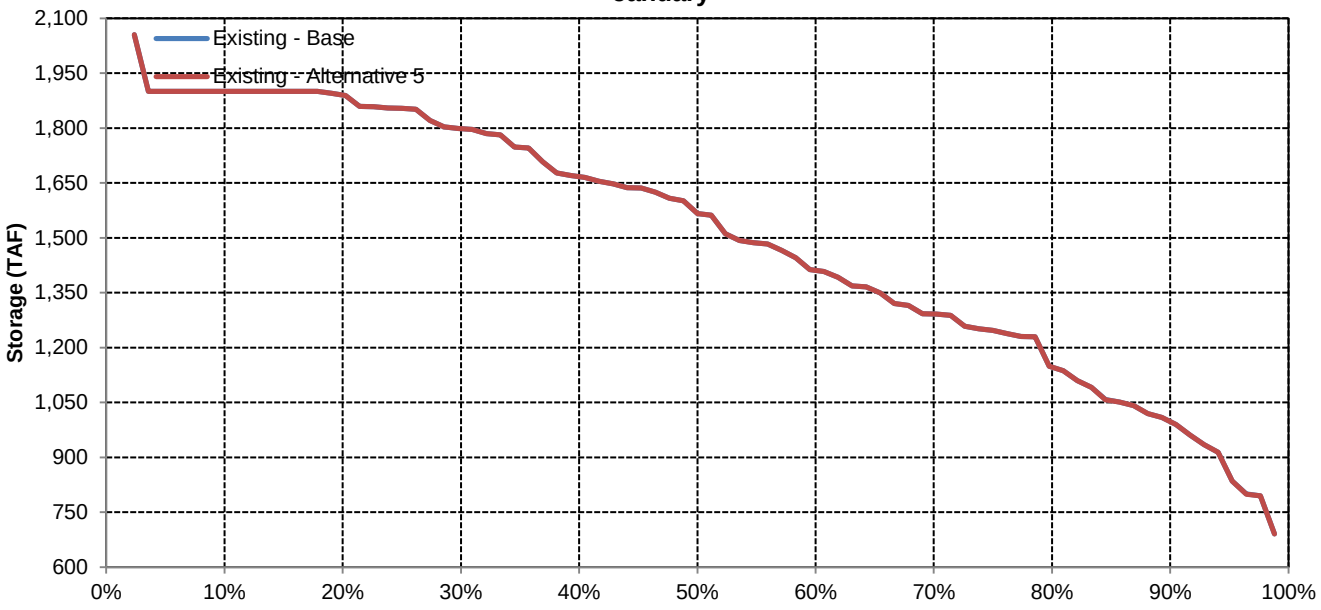


Trinity Reservoir

December

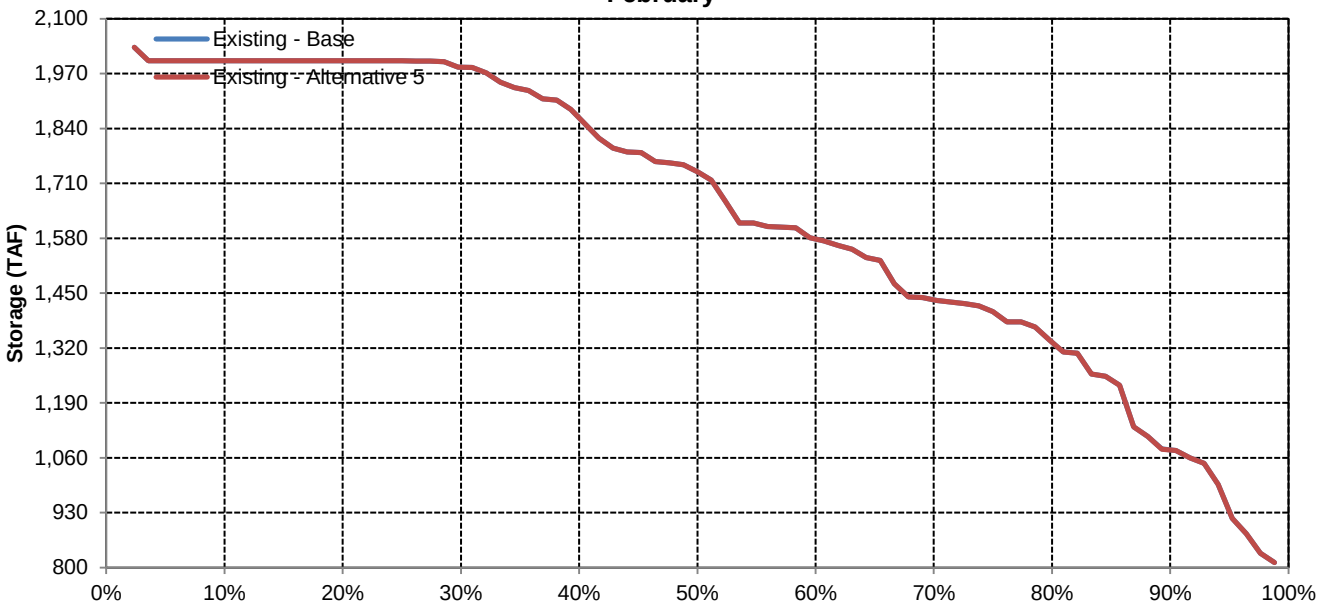


January

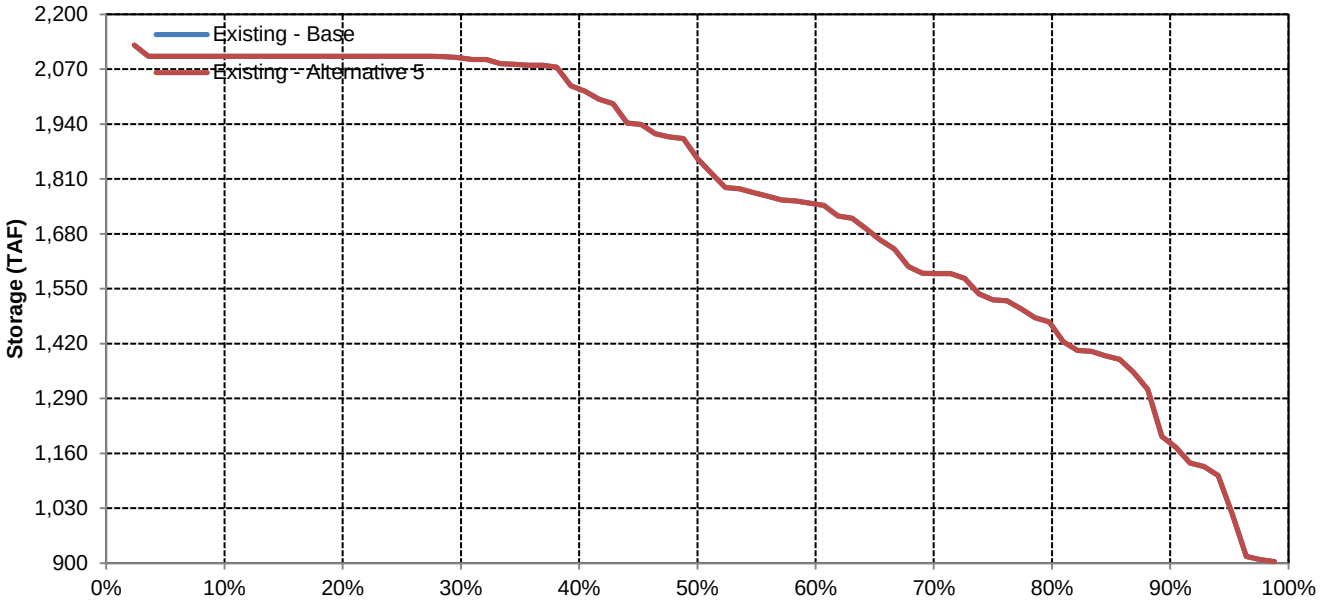


Trinity Reservoir

February

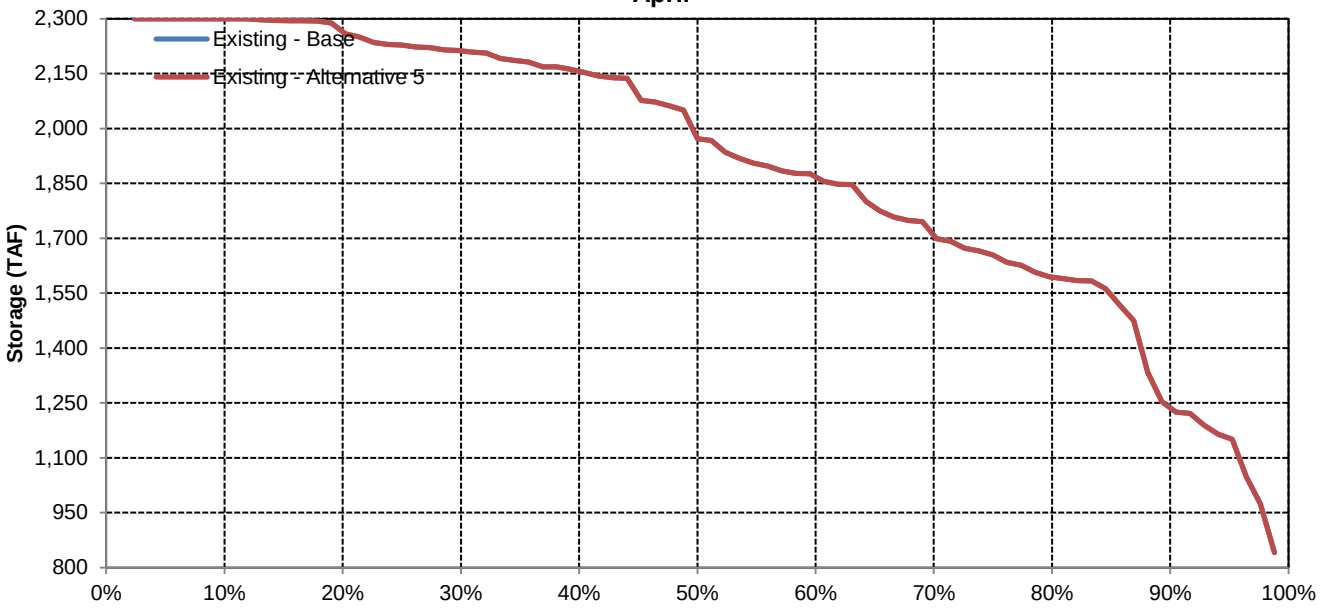


March

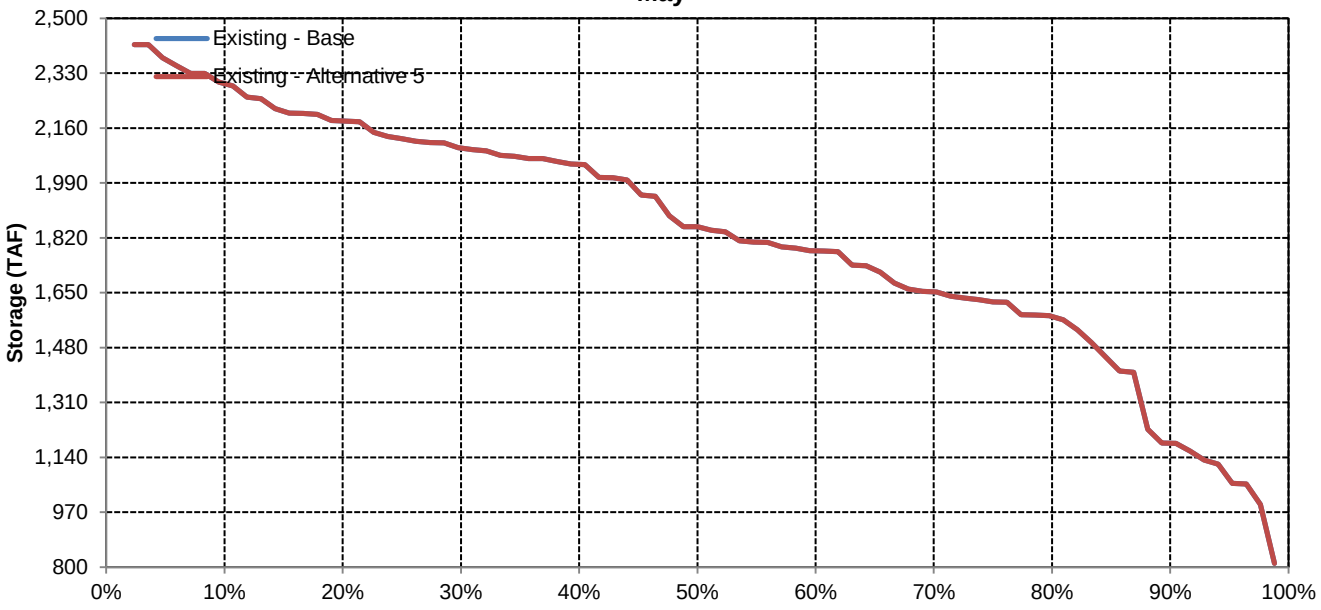


Trinity Reservoir

April

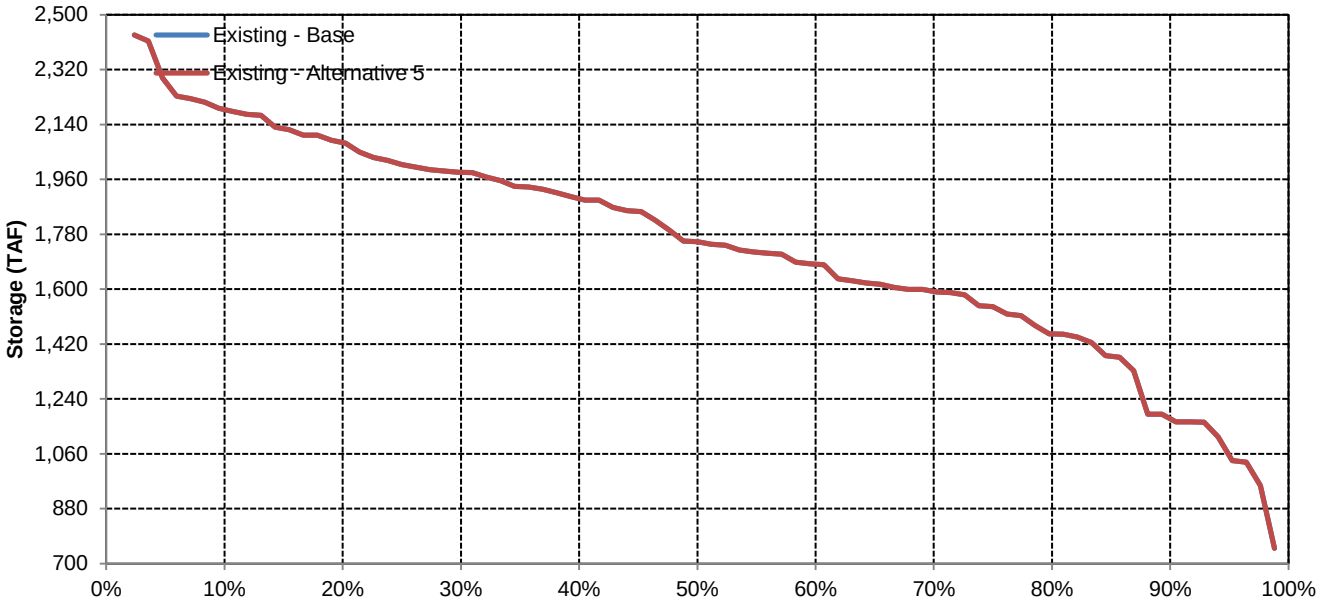


May

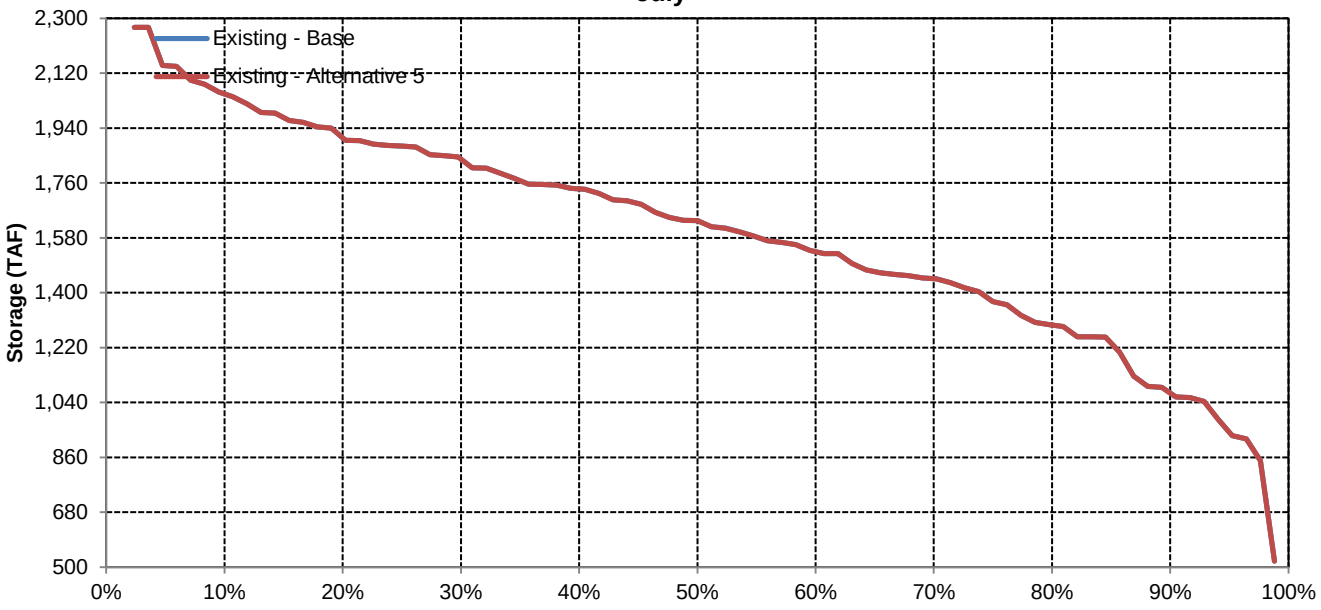


Trinity Reservoir

June

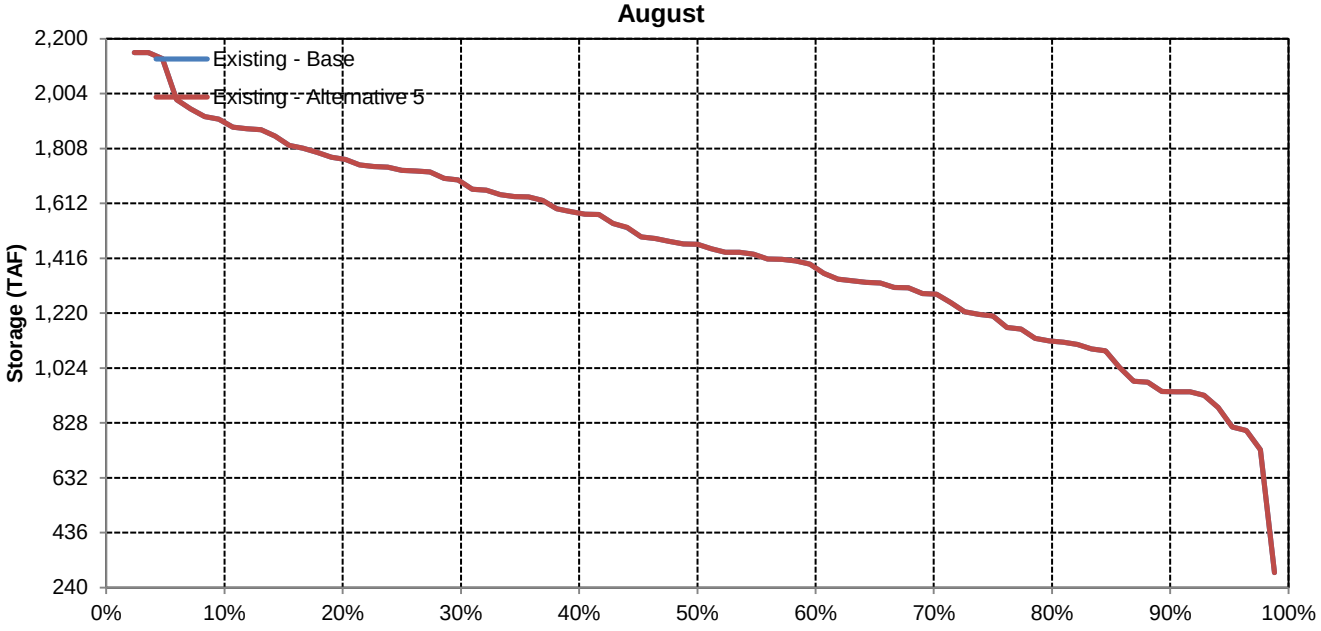


July

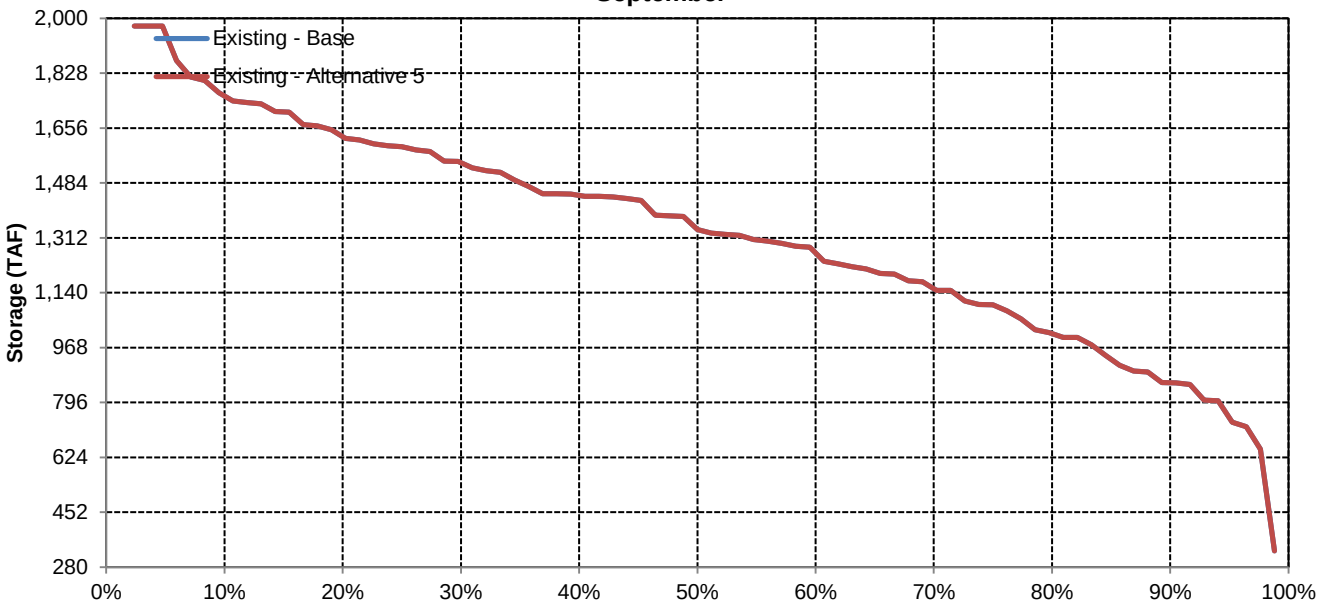


Trinity Reservoir

August



September



Long-Term and Water Year-Type Average of Shasta Reservoir Storage Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Existing - Alternative 5	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Existing - Alternative 5	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Existing - Alternative 5	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Existing - Alternative 5	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Existing - Alternative 5	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Existing - Alternative 5	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Shasta Reservoir Storage

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,296	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,461	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,490
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

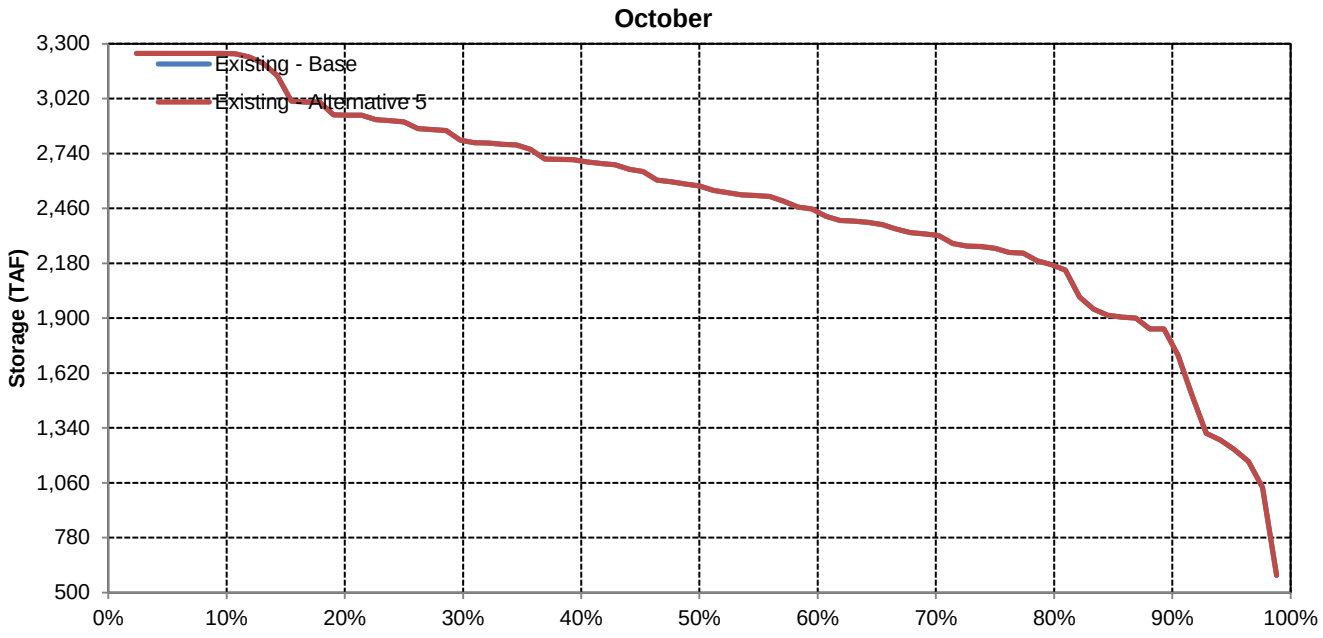
Existing - Alternative 5

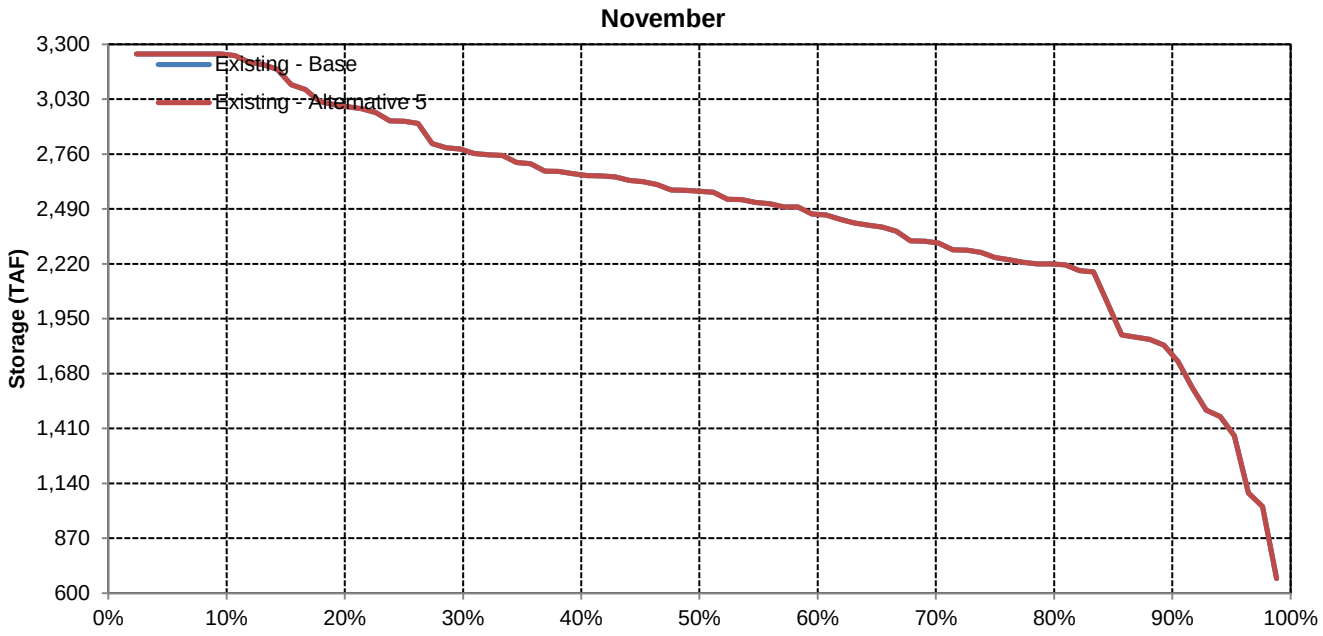
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,297	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,462	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,491
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

Existing - Alternative 5 Minus Existing - Base

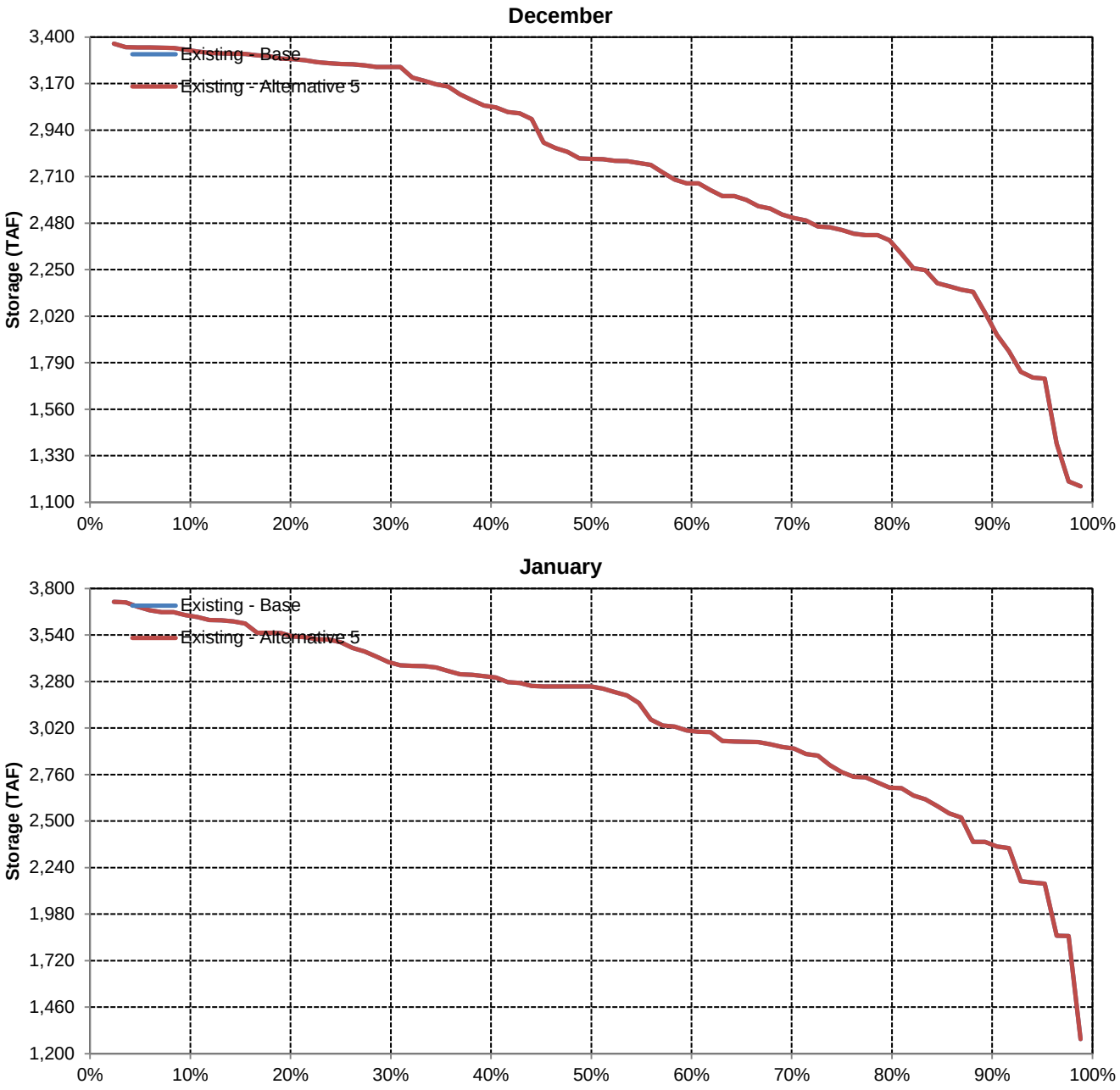
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Shasta Reservoir Storage



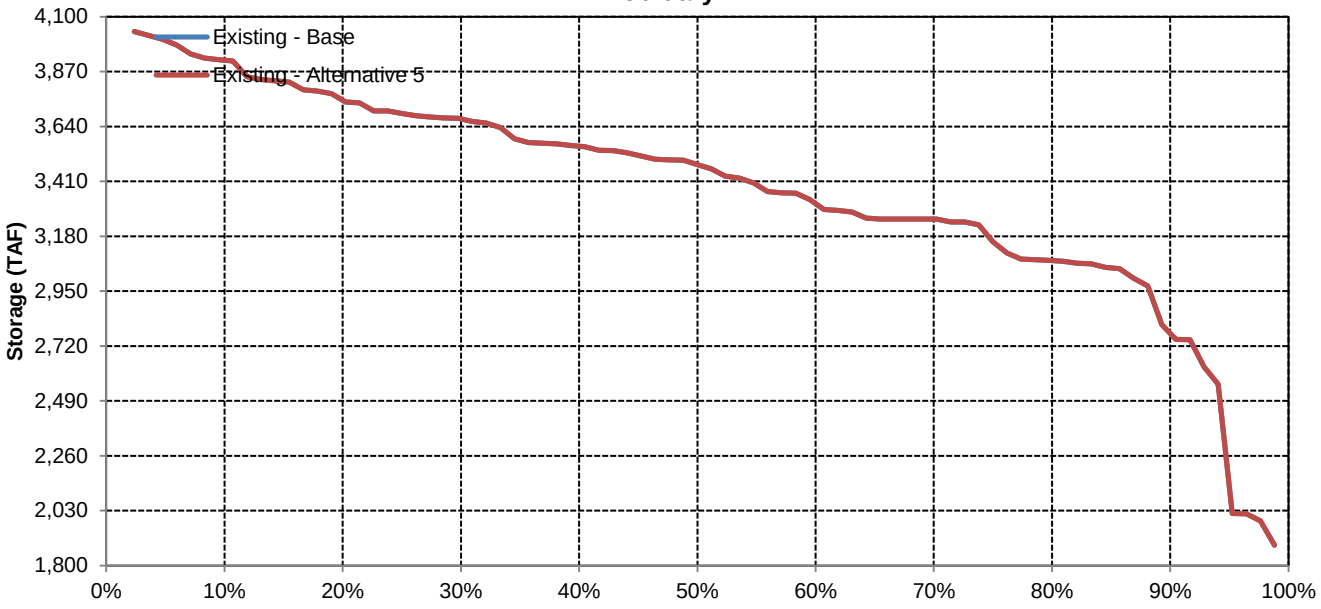


Shasta Reservoir Storage

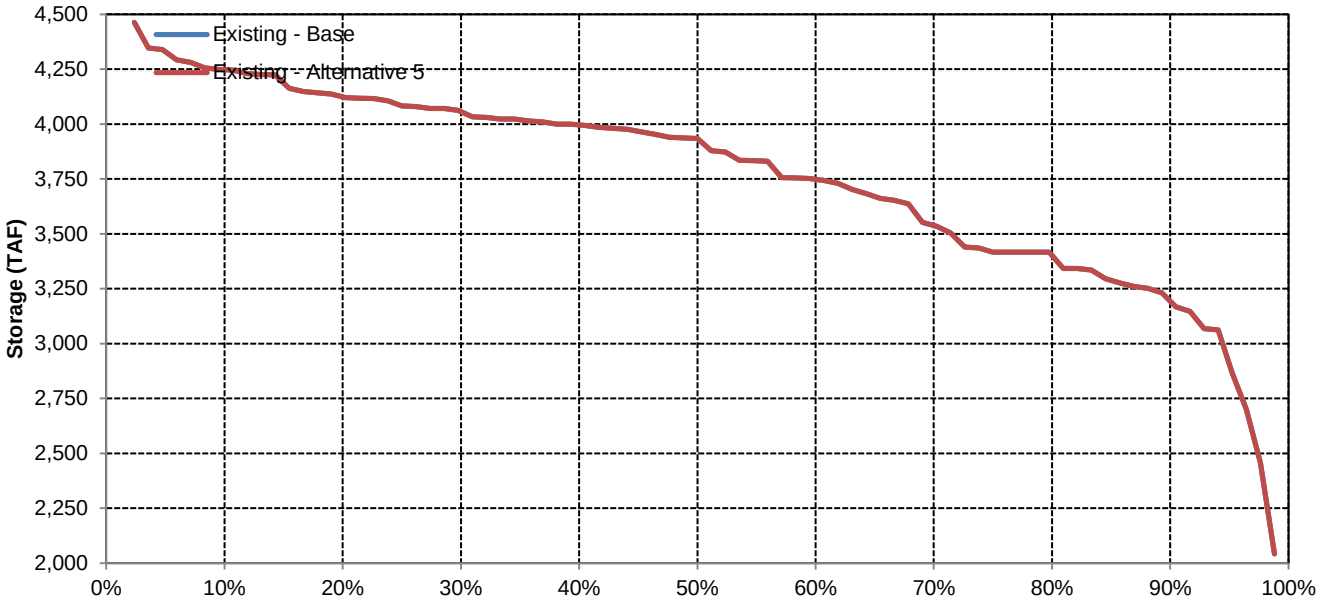


Shasta Reservoir Storage

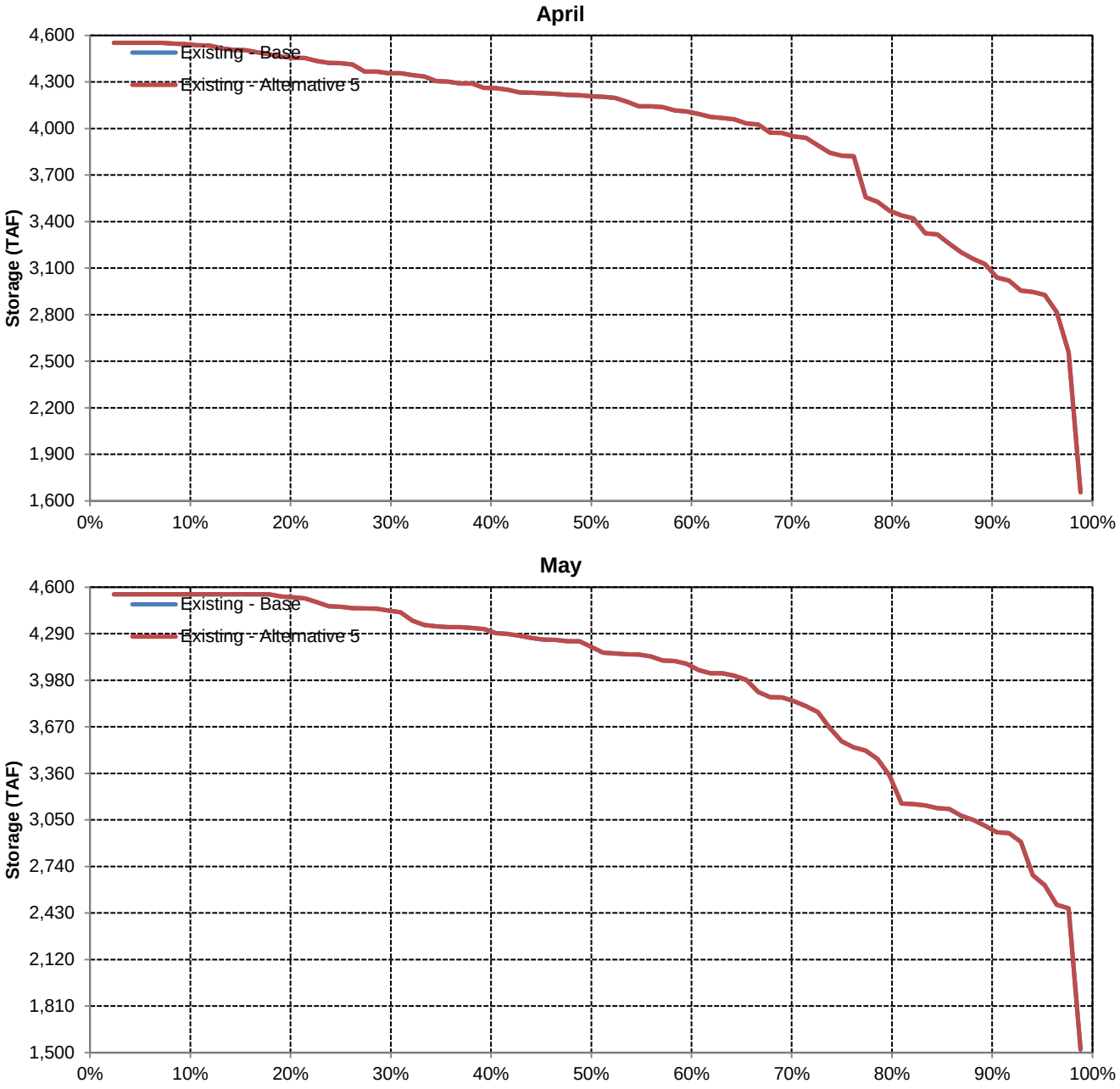
February



March

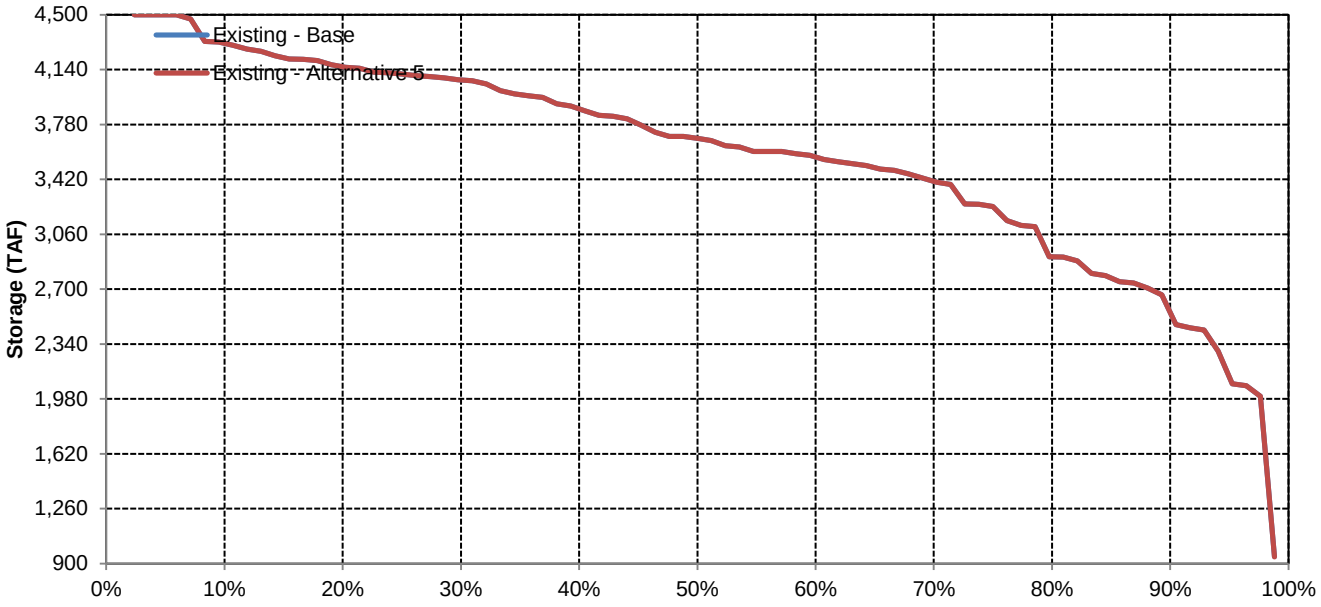


Shasta Reservoir Storage

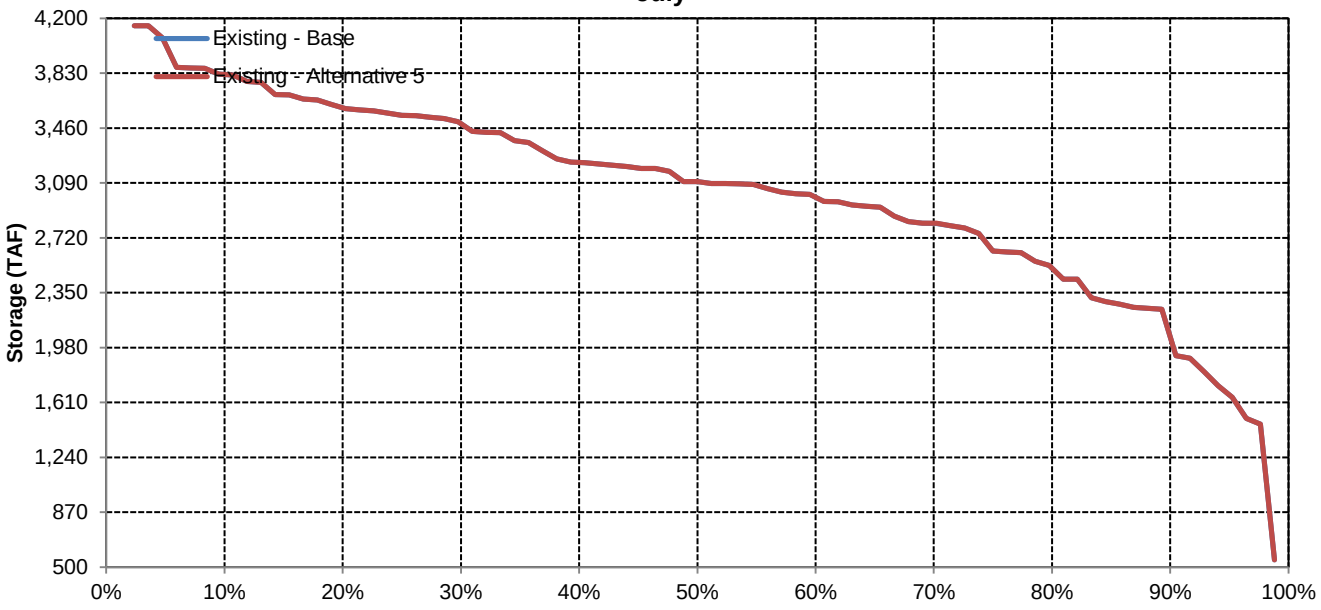


Shasta Reservoir Storage

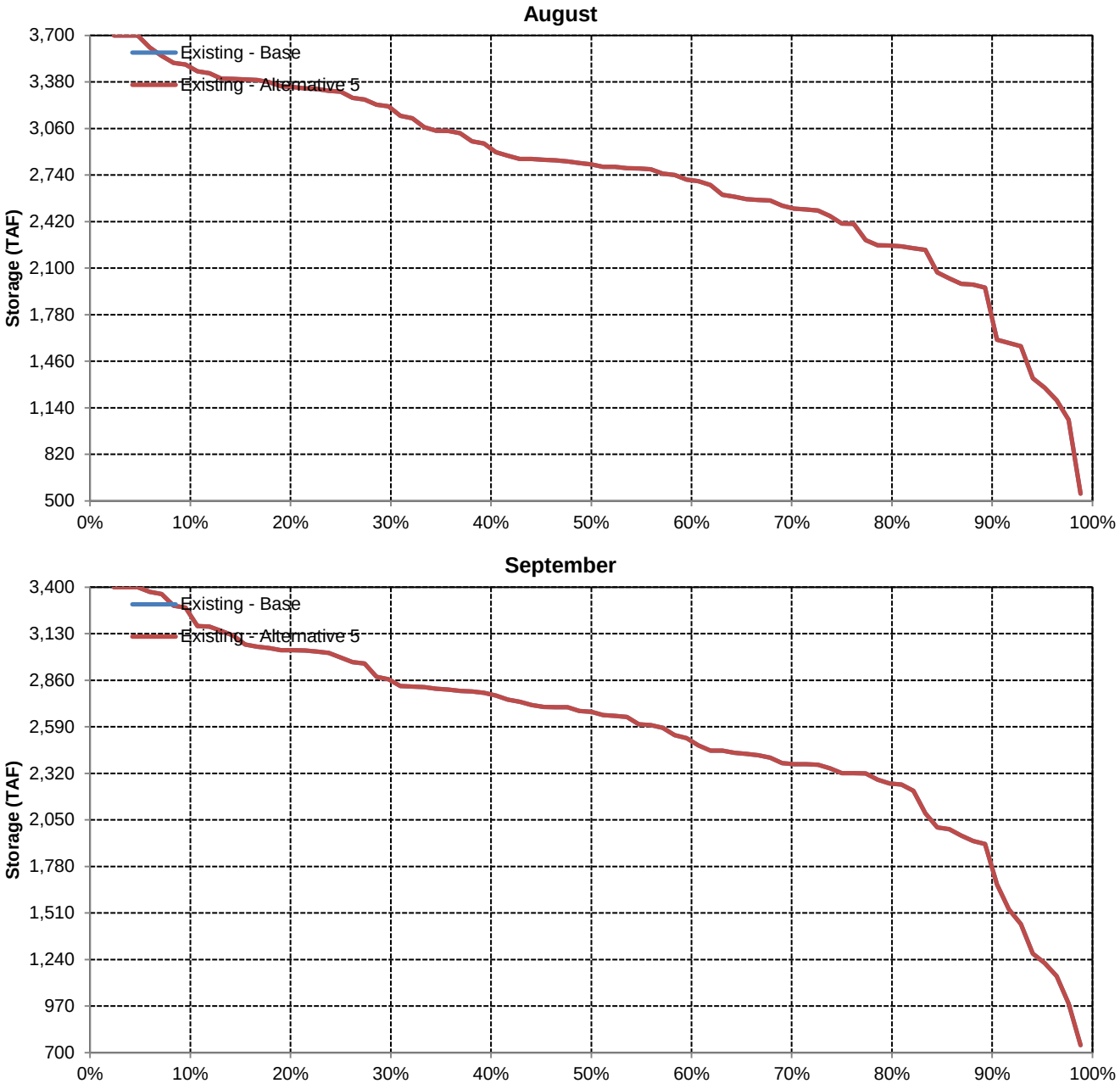
June



July



Shasta Reservoir Storage



Long-Term and Water Year-Type Average of Oroville Reservoir Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Existing - Alternative 5	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Existing - Alternative 5	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Existing - Alternative 5	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Existing - Alternative 5	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Existing - Alternative 5	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Existing - Alternative 5	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Oroville Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,474	1,911	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,391
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,289
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 5

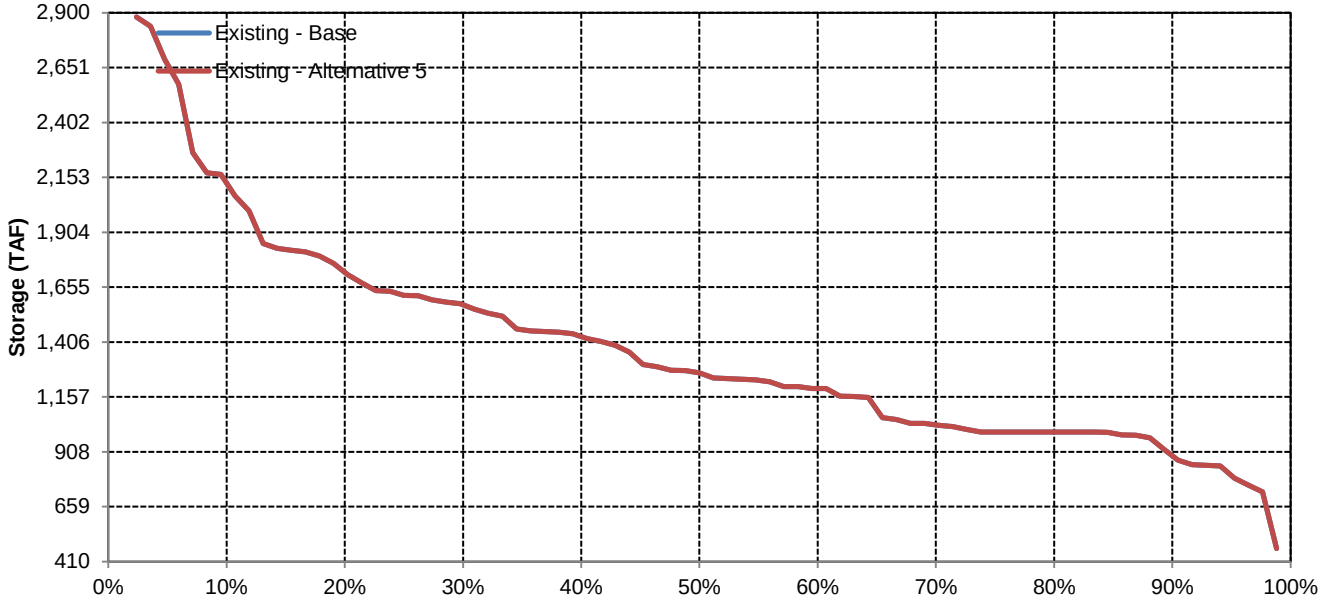
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,473	1,912	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,391
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,289
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,432	1,461	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 5 Minus Existing - Base

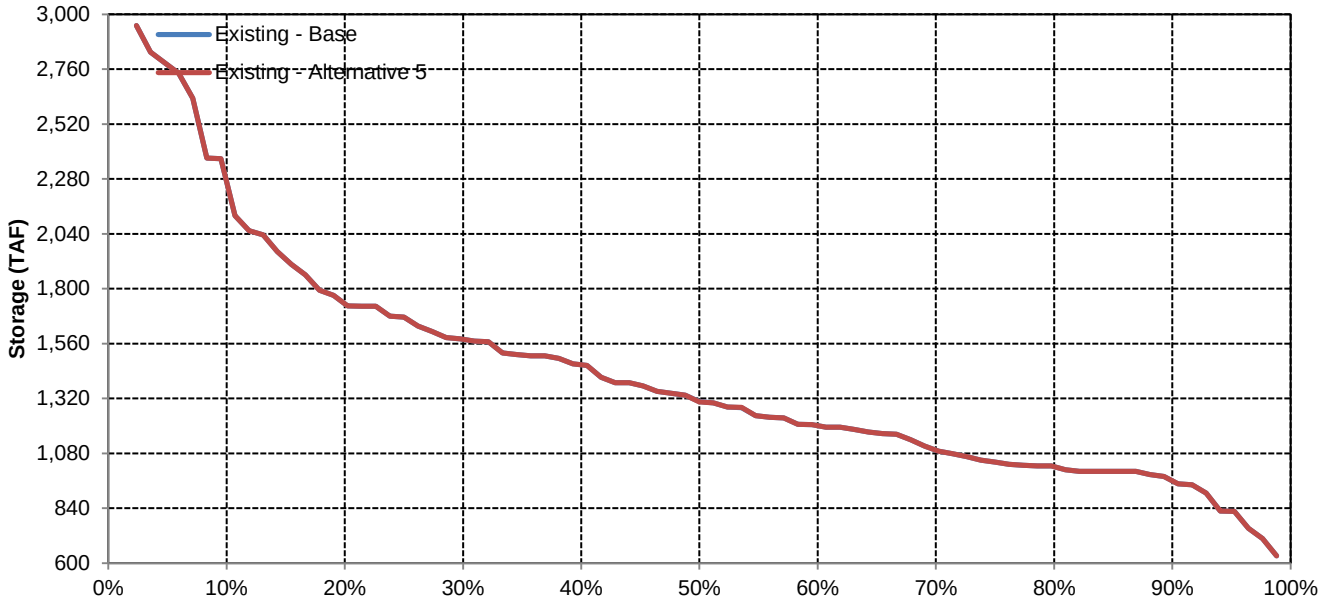
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Oroville Reservoir

October

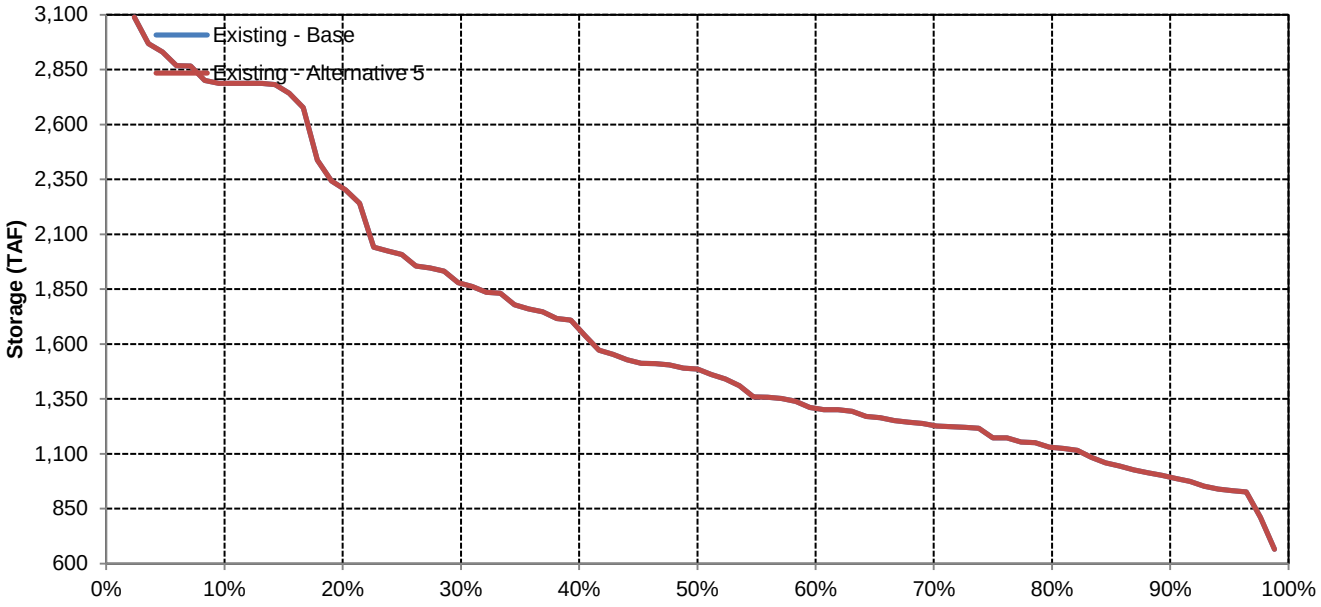


November

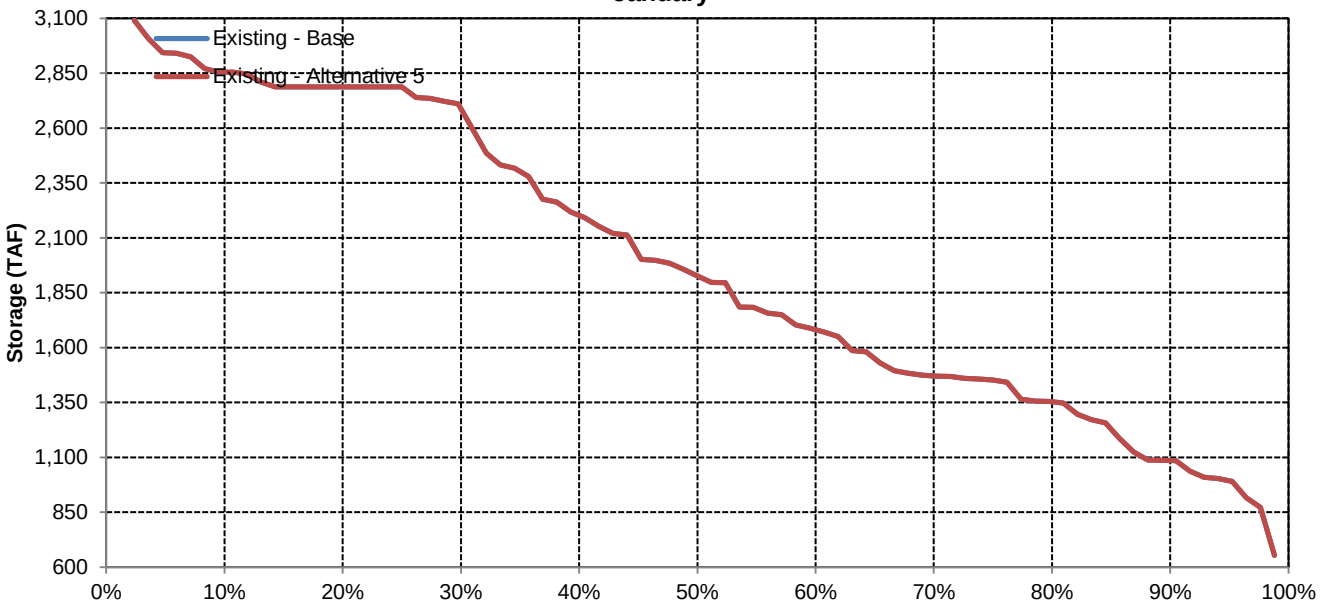


Oroville Reservoir

December

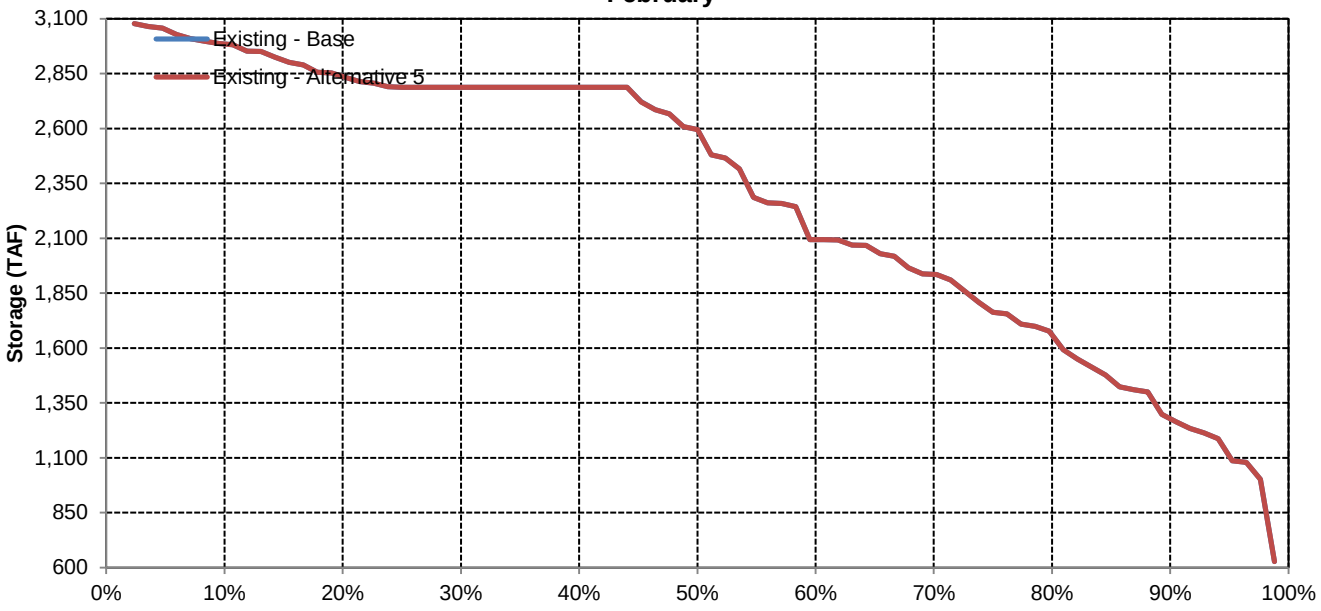


January

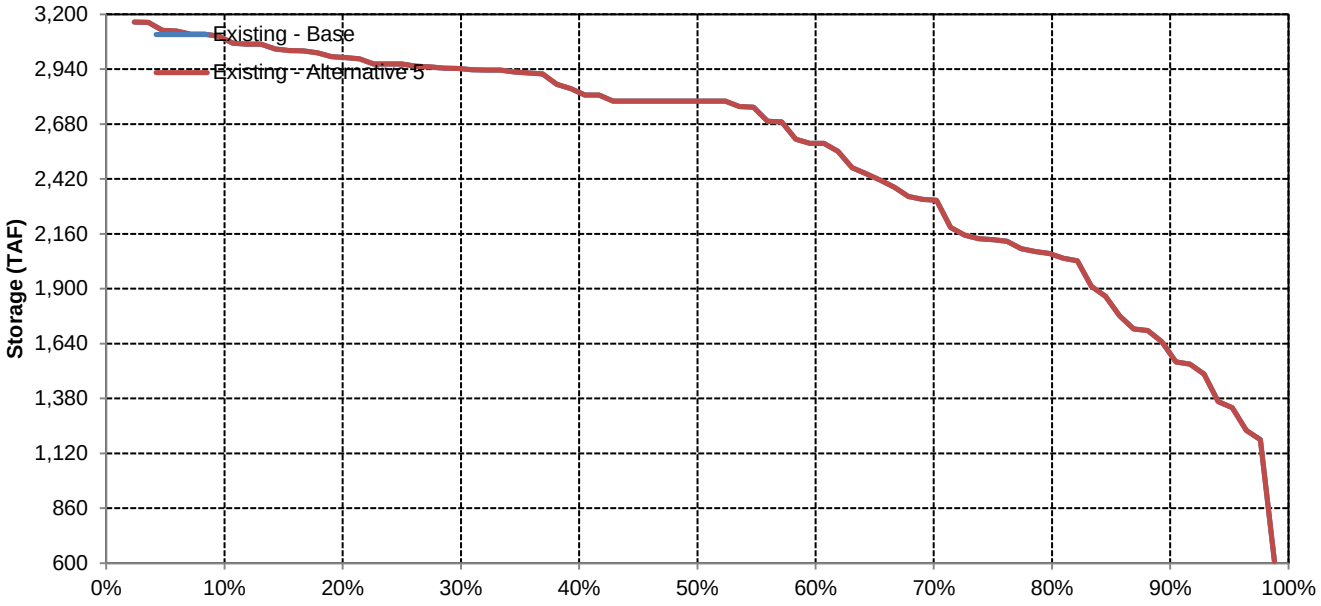


Oroville Reservoir

February

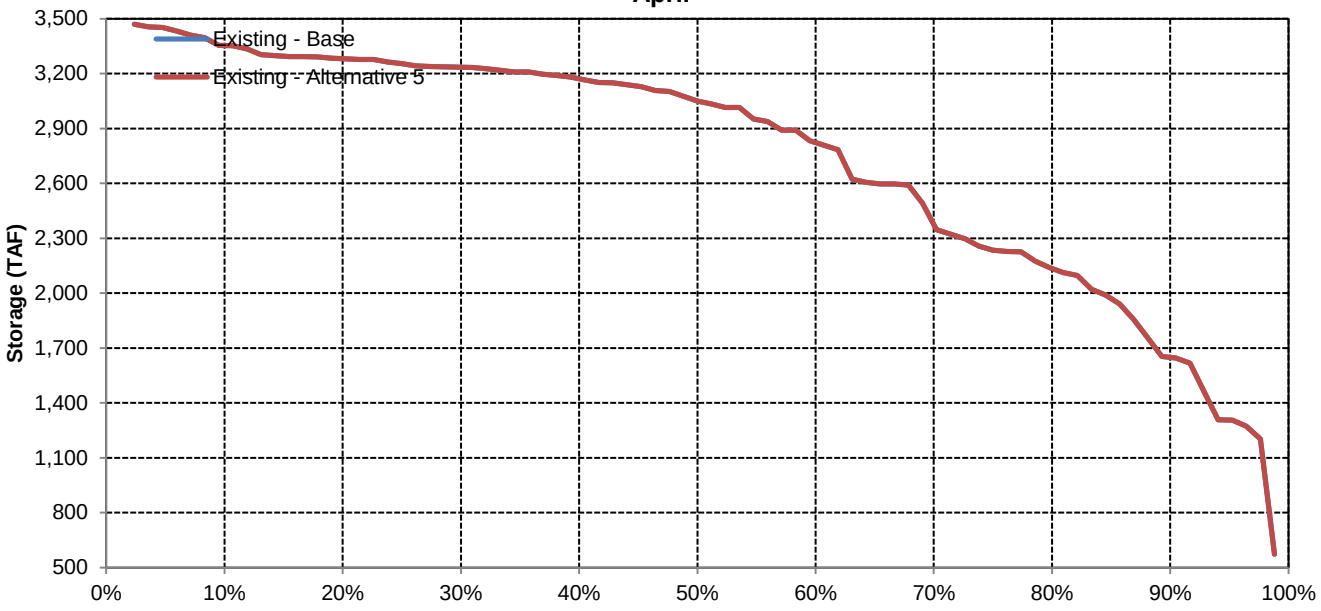


March

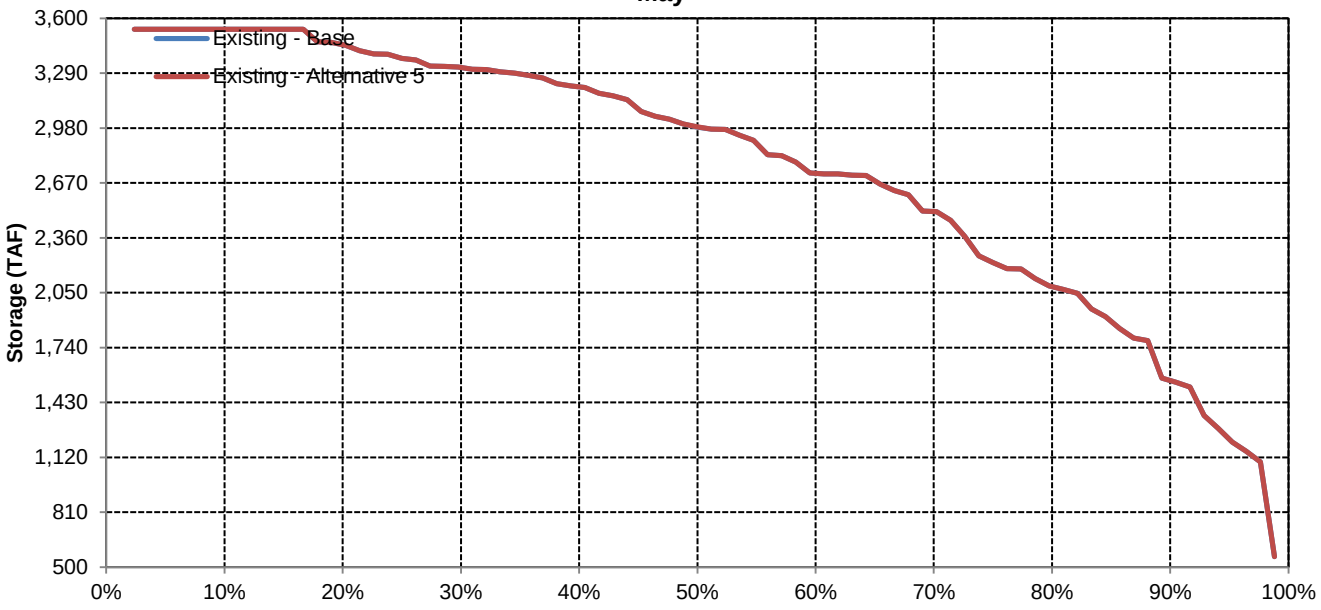


Oroville Reservoir

April

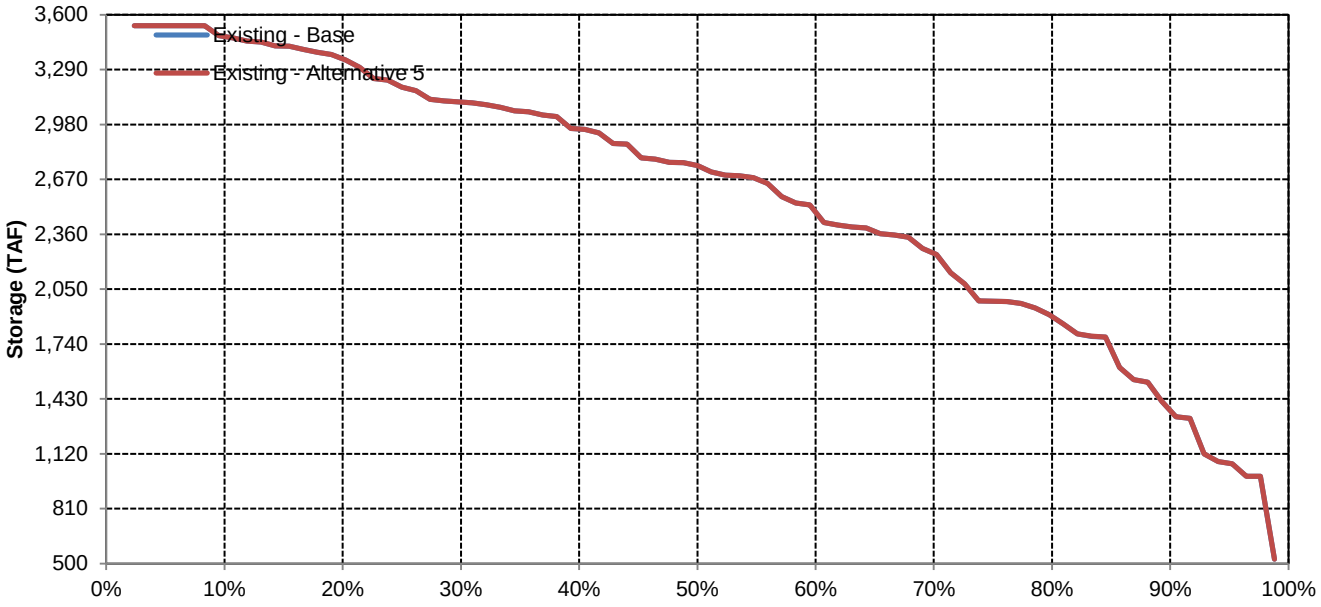


May

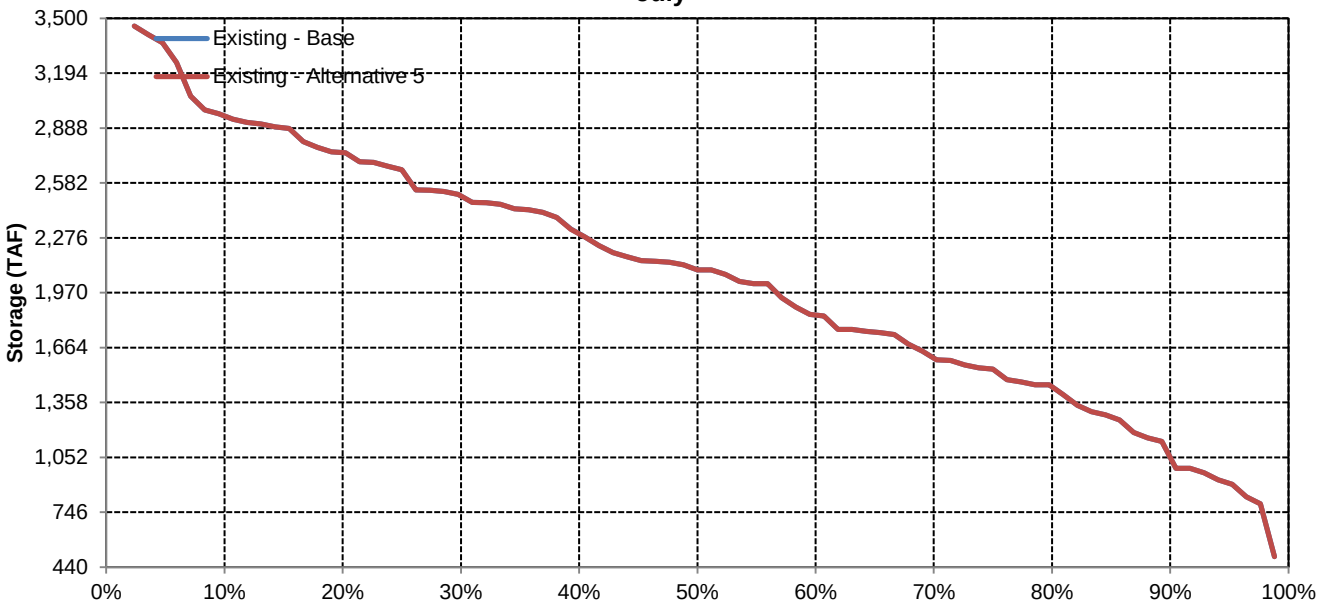


Oroville Reservoir

June

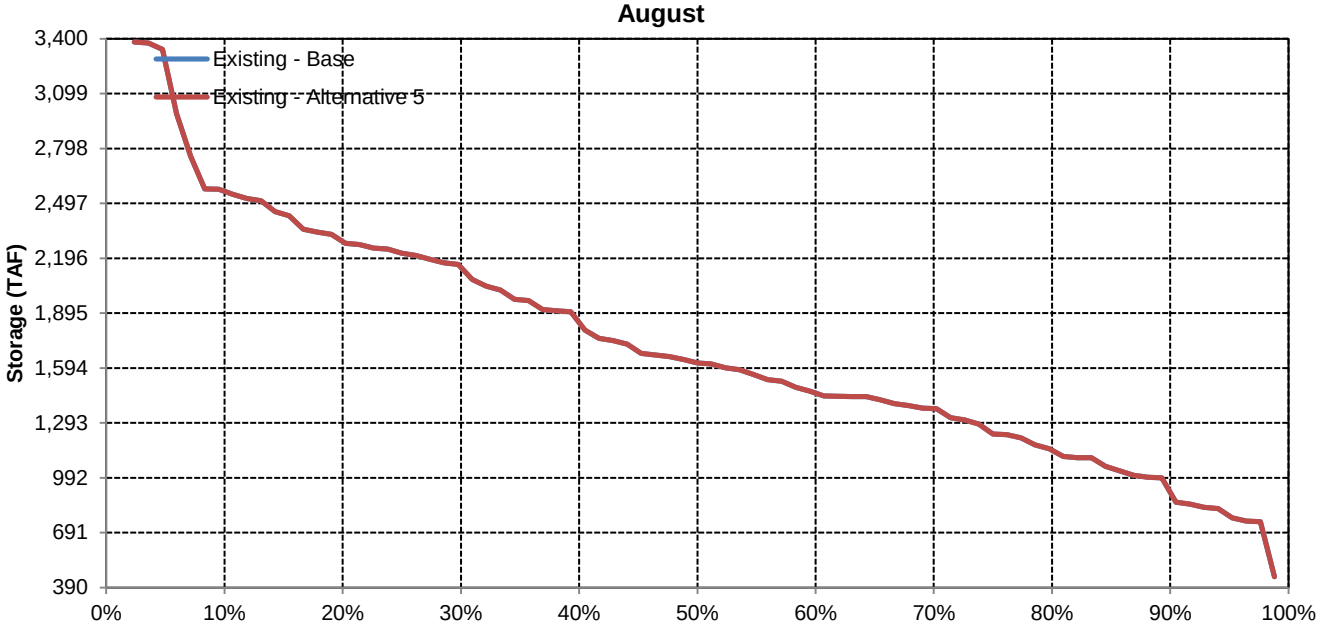


July

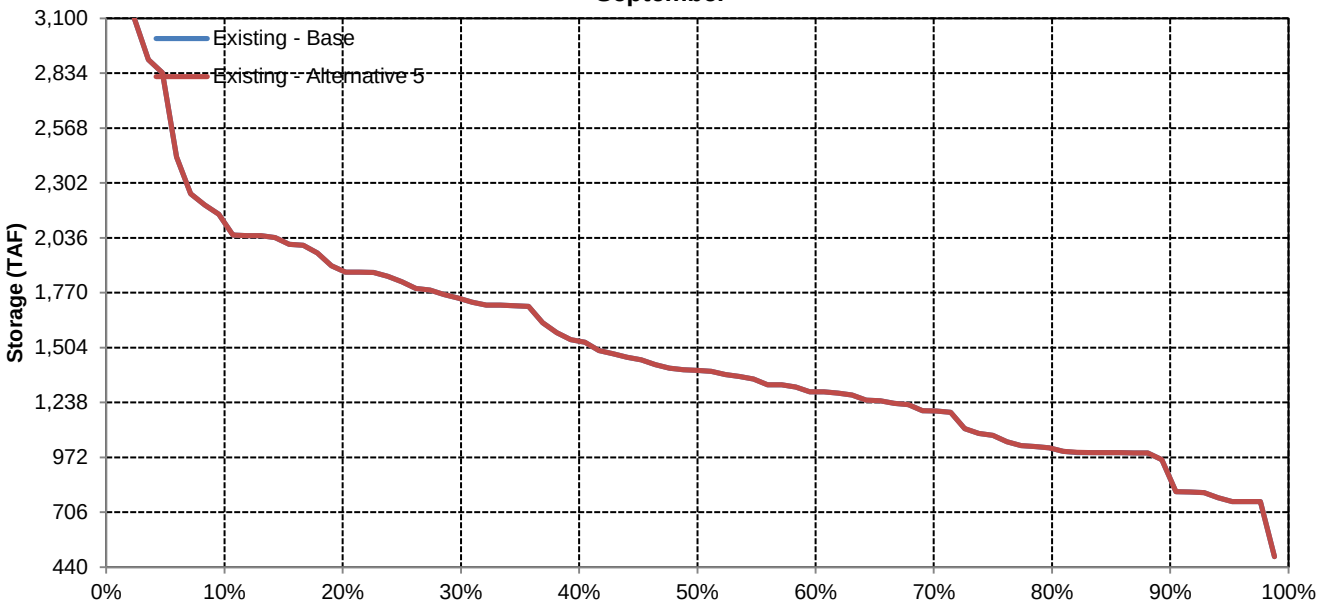


Oroville Reservoir

August



September



Long-Term and Water Year-Type Average of Folsom Reservoir Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	391	398	446	474	495	597	712	766	699	522	477	427
Existing - Alternative 5	391	398	446	474	495	597	712	766	699	522	477	427
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	405	431	511	520	508	626	766	897	851	676	622	507
Existing - Alternative 5	405	431	511	520	508	626	766	897	851	676	622	507
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	406	399	470	532	548	643	777	842	775	540	504	455
Existing - Alternative 5	406	399	470	532	548	643	777	842	775	540	504	455
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	397	414	447	500	536	627	774	792	716	480	445	433
Existing - Alternative 5	397	414	447	500	536	627	774	792	716	480	445	433
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	365	367	398	418	479	593	688	698	596	438	387	376
Existing - Alternative 5	365	367	398	418	479	593	688	698	596	438	387	376
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	372	347	345	357	380	453	480	471	418	351	313	291
Existing - Alternative 5	372	347	345	357	380	453	480	471	418	351	313	291
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Folsom Reservoir

Existing - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 5

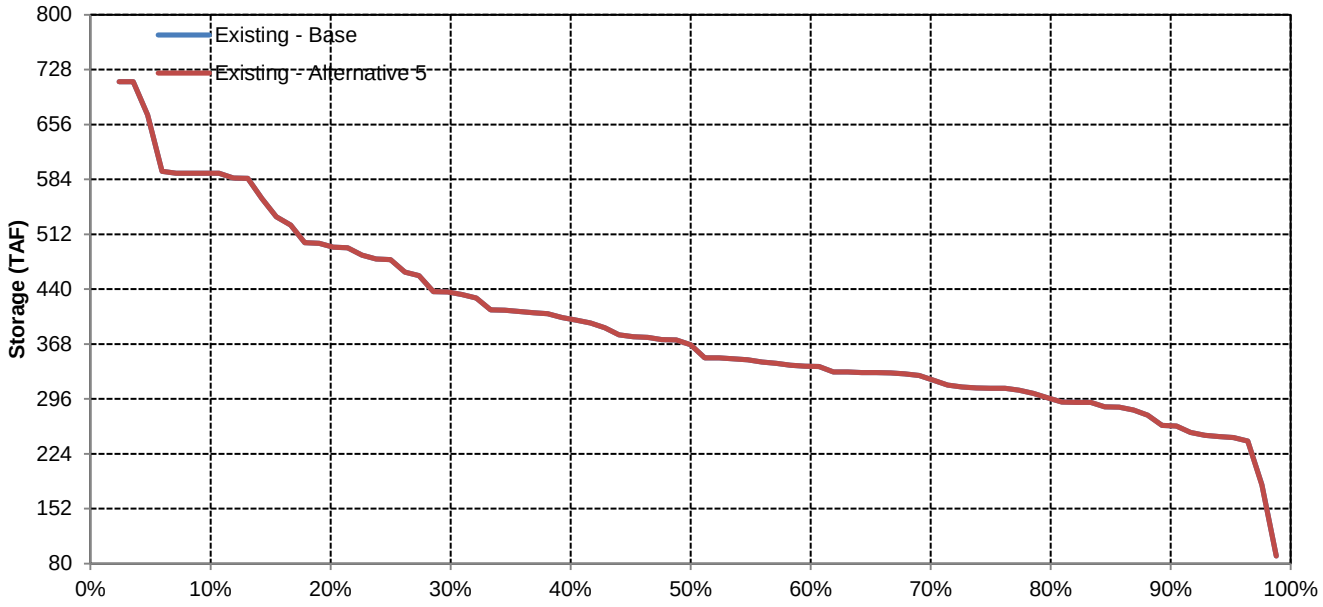
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 5 Minus Existing - Base

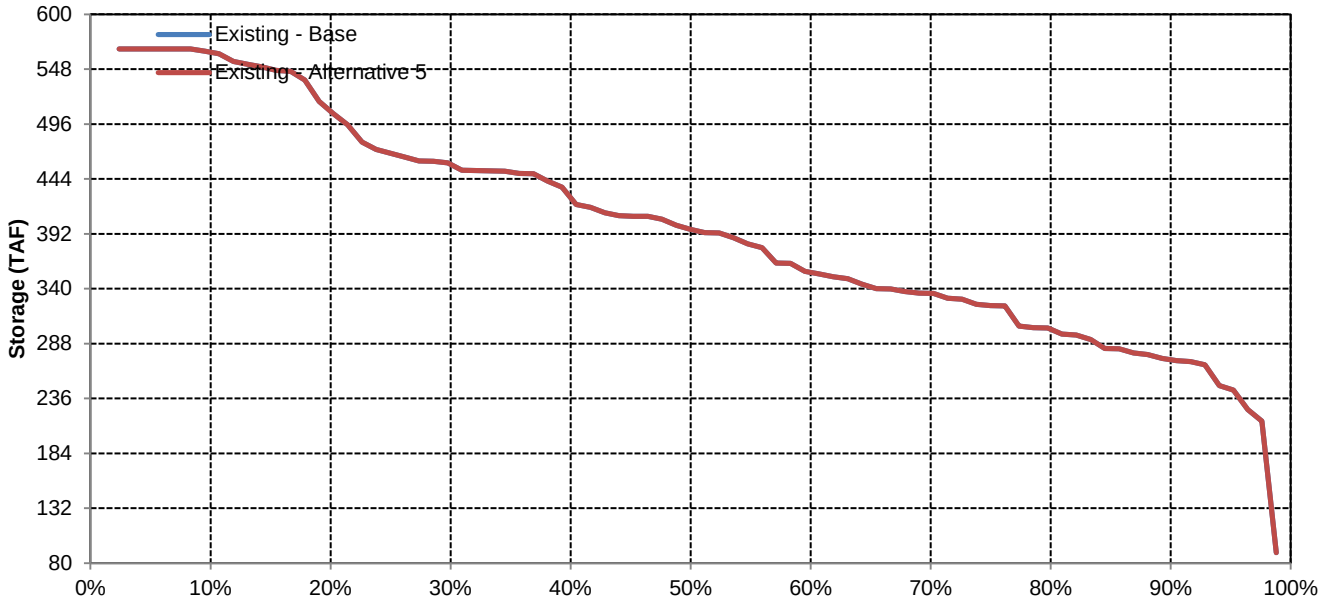
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Folsom Reservoir

October

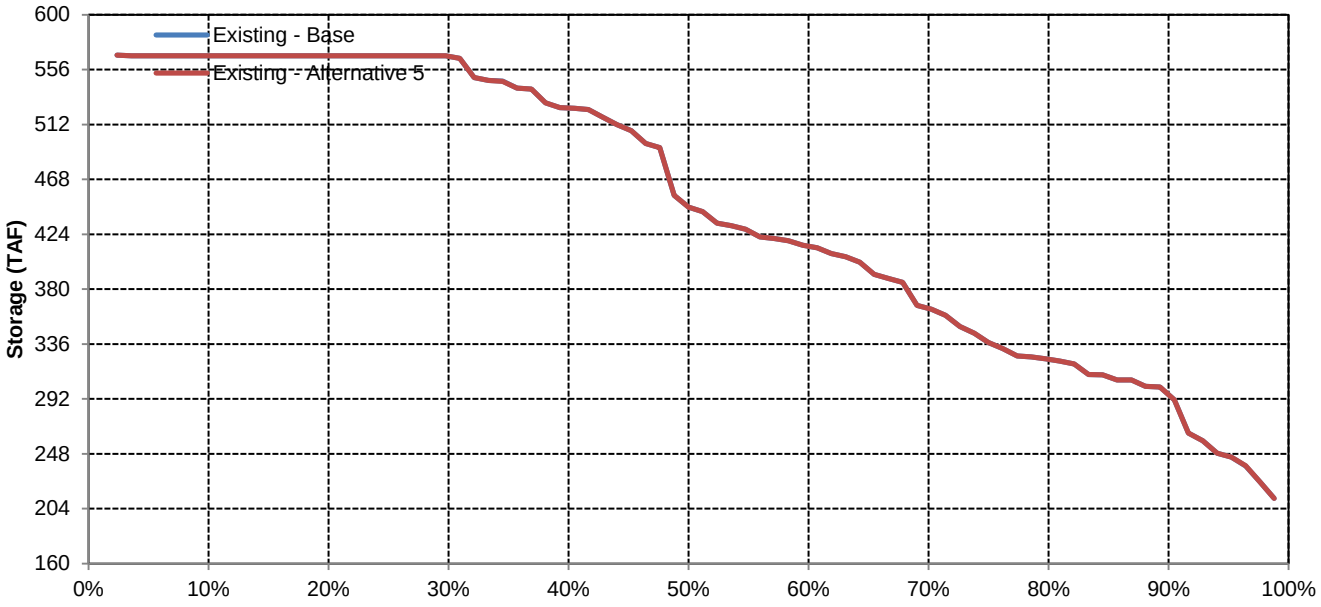


November

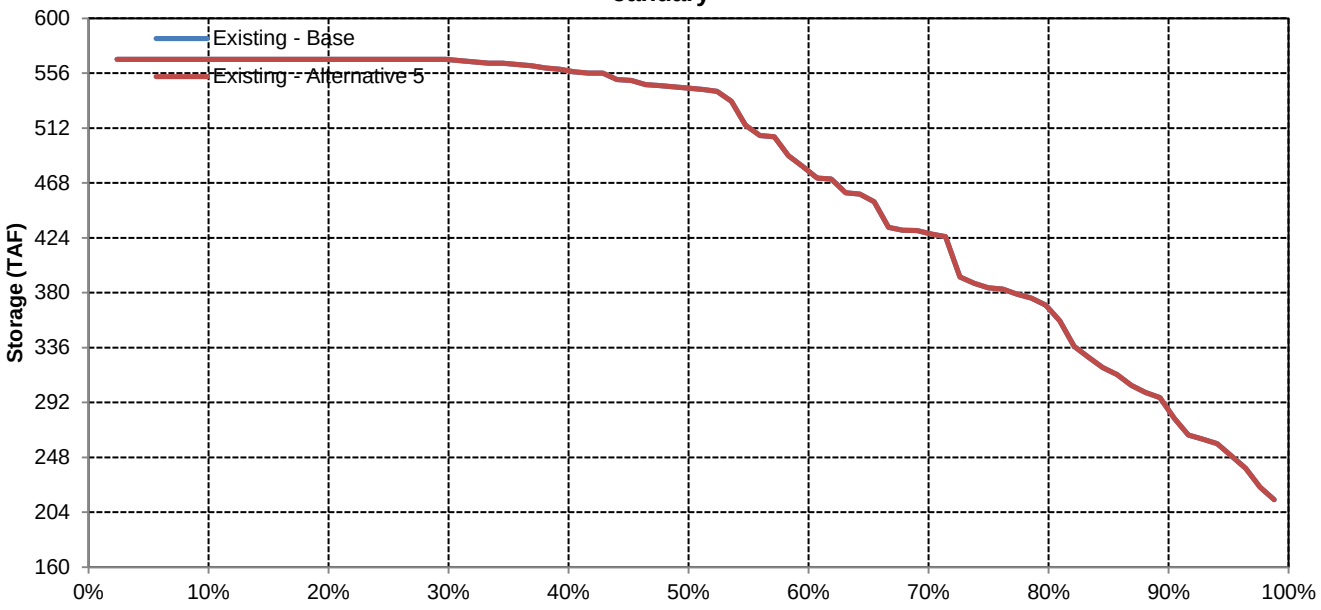


Folsom Reservoir

December

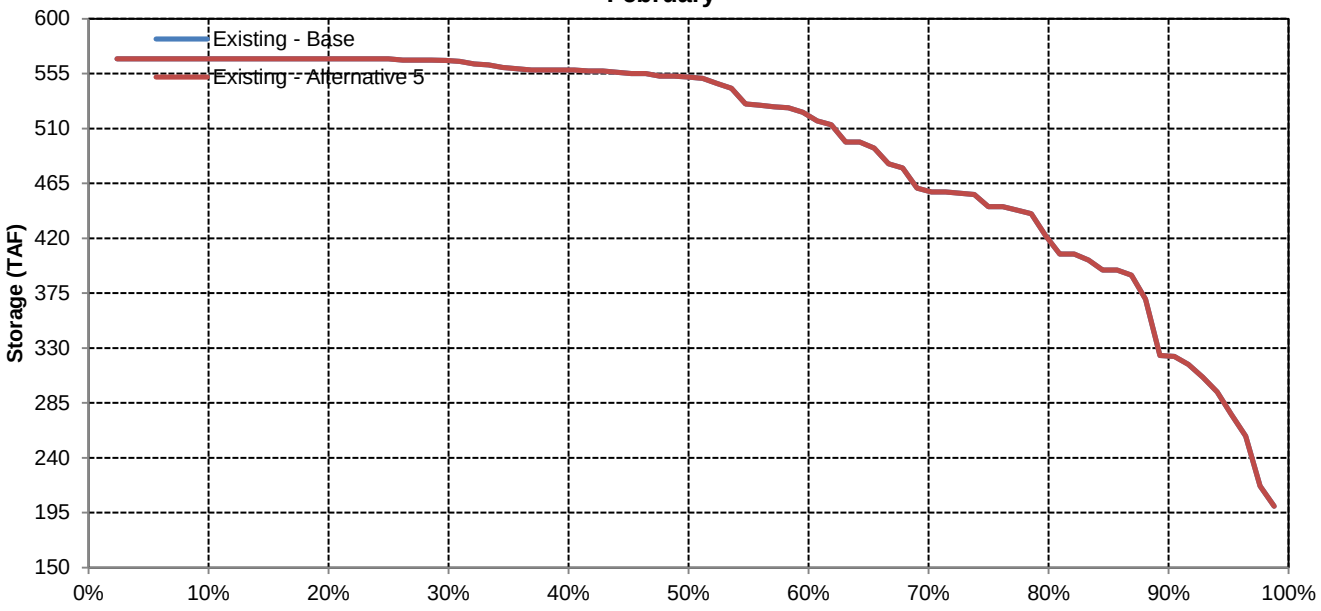


January

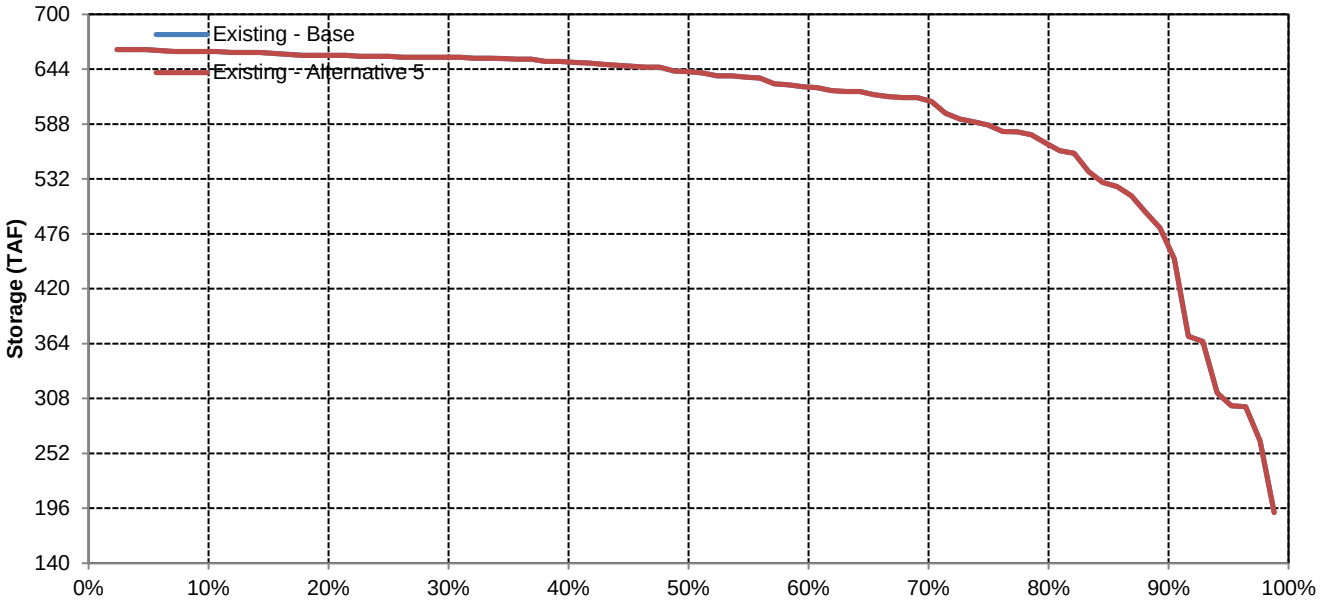


Folsom Reservoir

February

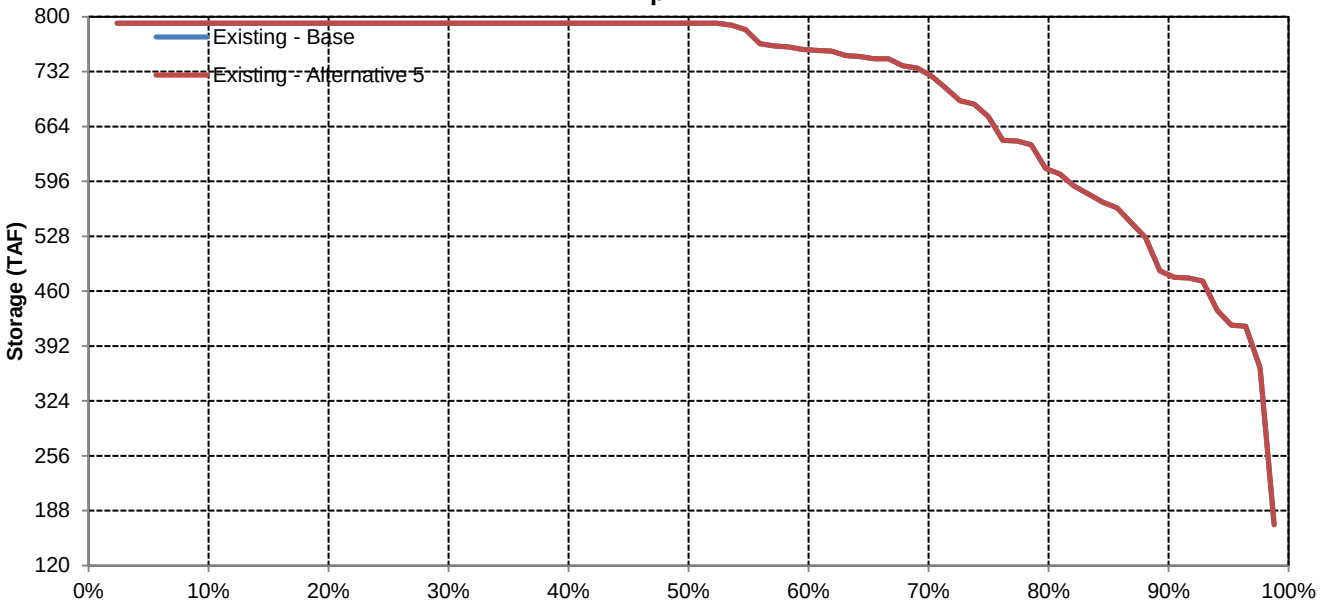


March

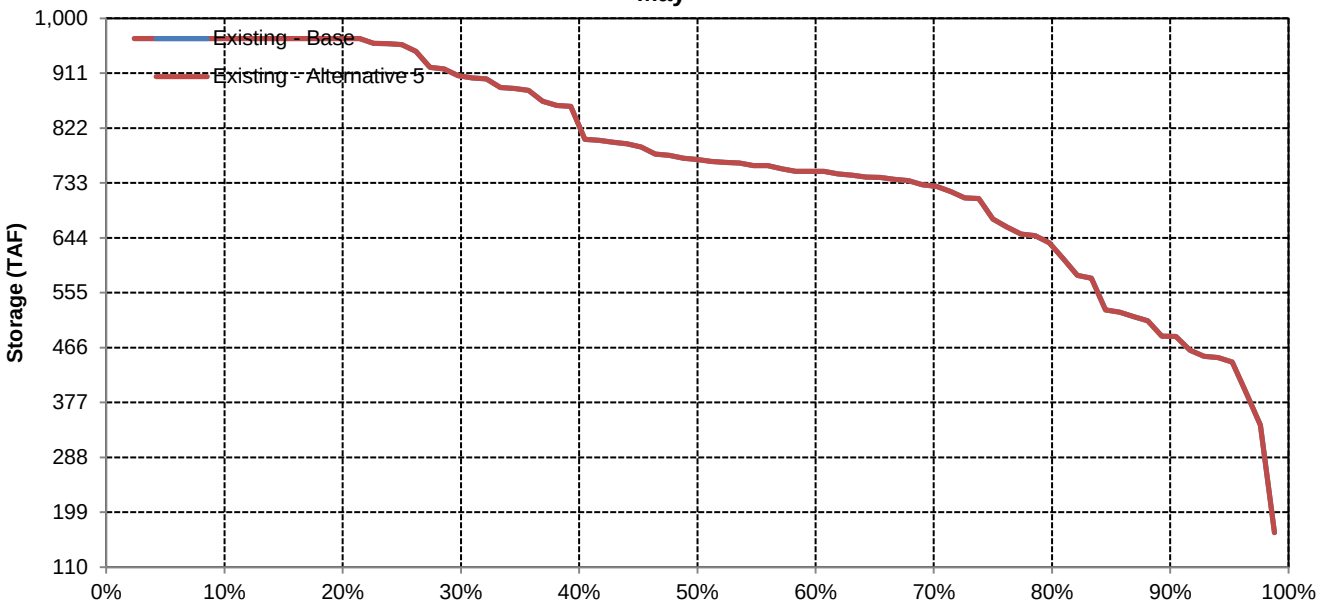


Folsom Reservoir

April

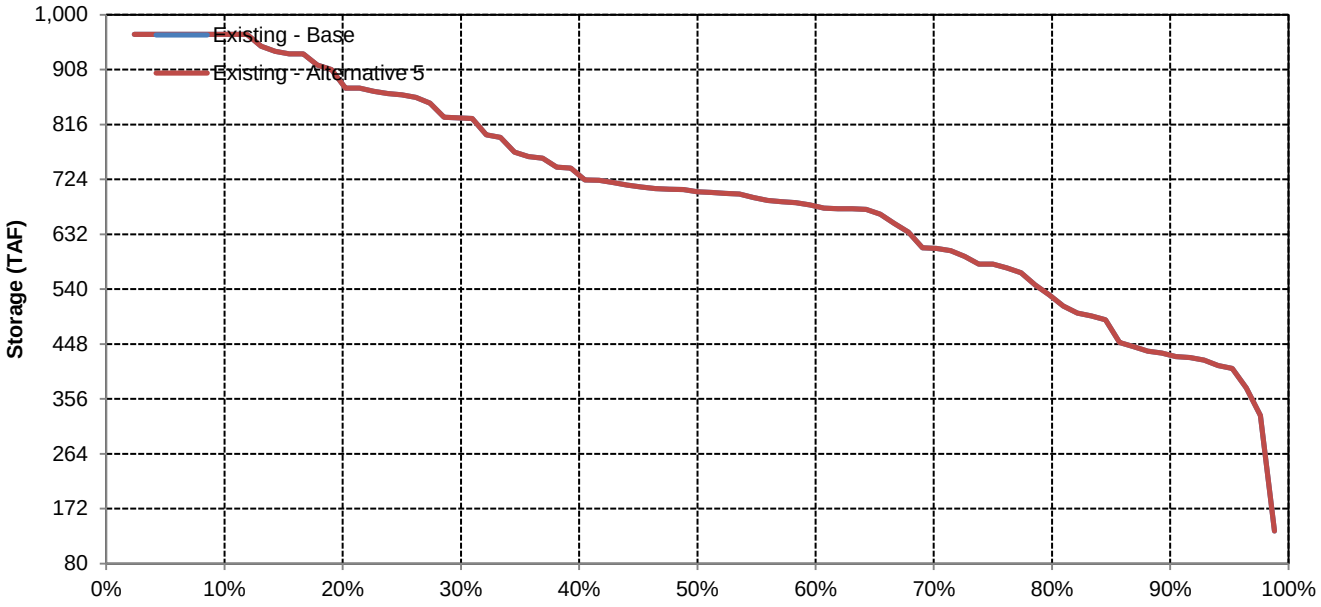


May

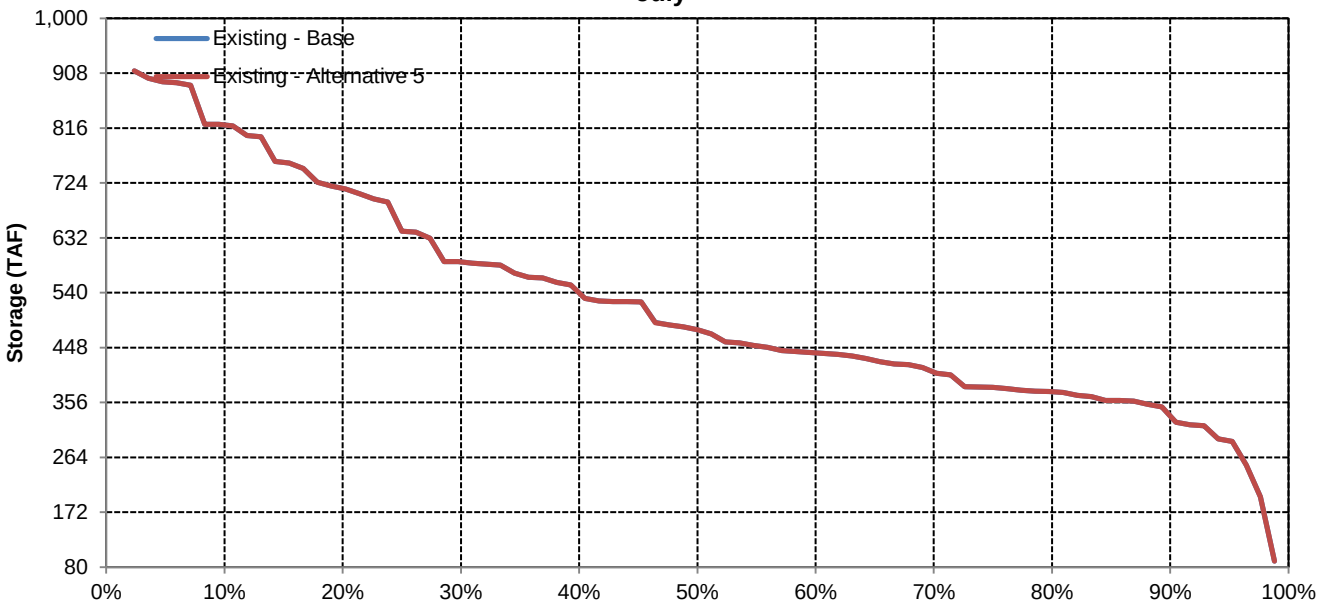


Folsom Reservoir

June

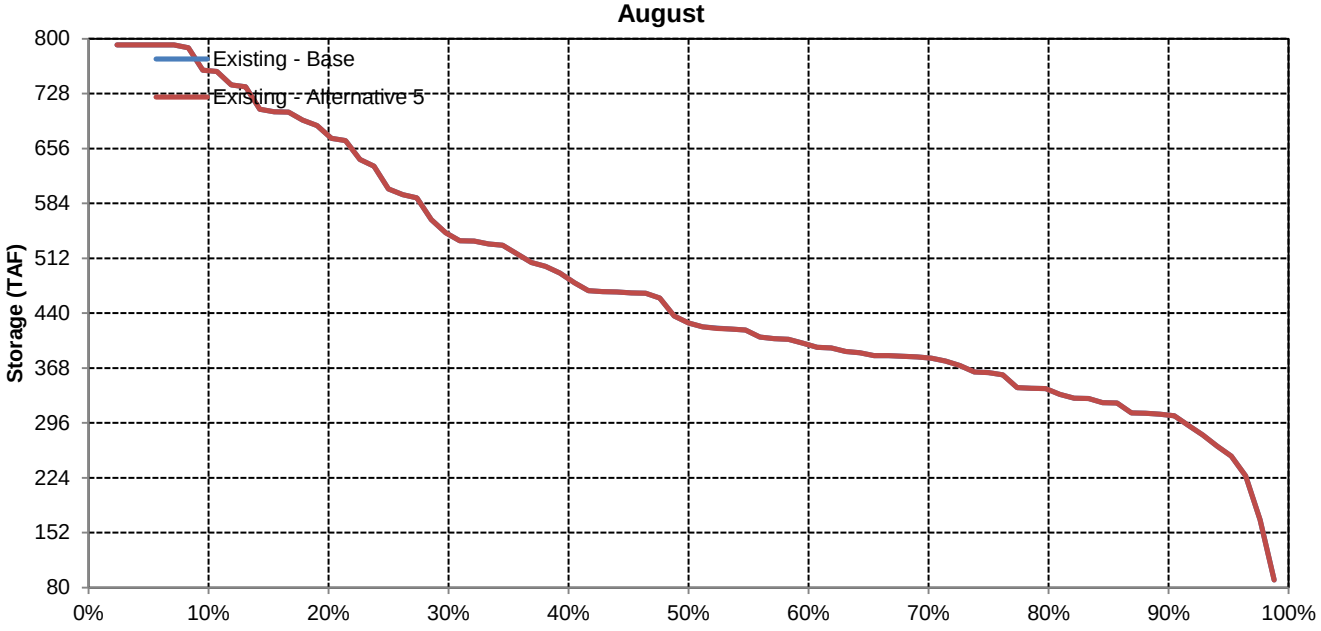


July

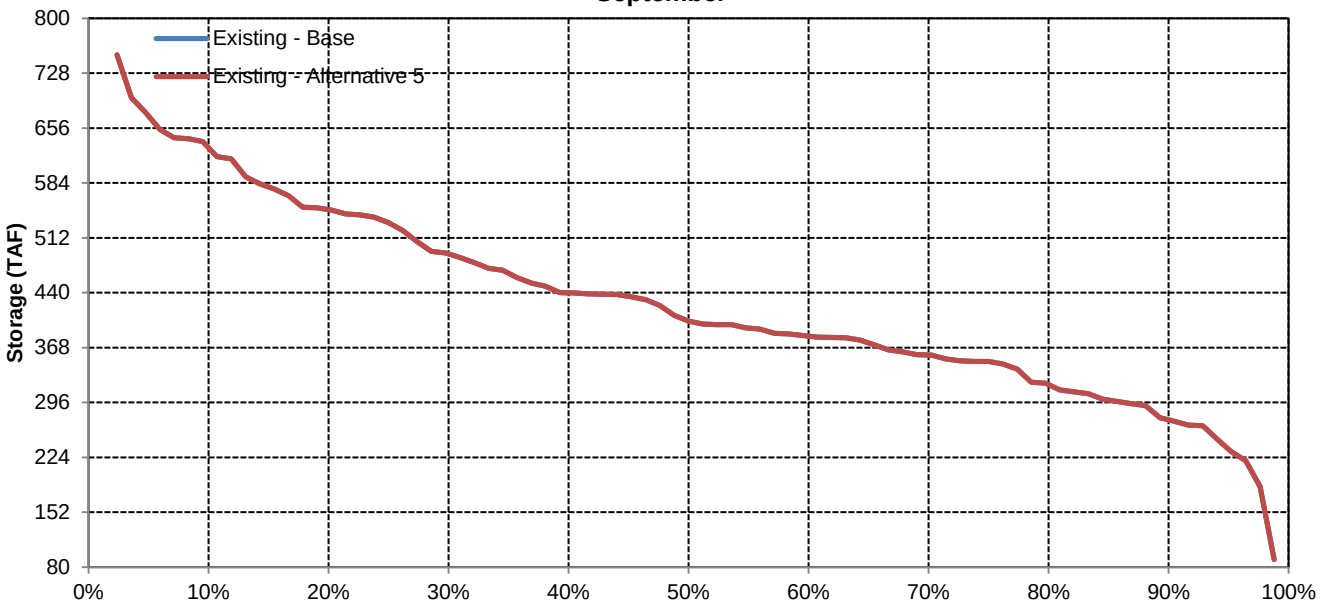


Folsom Reservoir

August



September



Long-Term and Water Year-Type Average of CVP San Luis Reservoir Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	217	330	493	616	709	777	712	577	404	261	171	178
Existing - Alternative 5	217	330	493	616	709	777	712	577	404	261	171	178
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	230	346	525	677	824	925	859	729	581	362	252	241
Existing - Alternative 5	230	346	525	677	824	925	859	729	581	362	252	241
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	231	375	535	653	766	876	790	630	437	201	133	128
Existing - Alternative 5	231	375	535	653	766	876	790	630	437	201	133	128
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	227	343	526	627	701	758	697	561	373	276	187	214
Existing - Alternative 5	227	343	526	627	701	758	697	561	373	276	187	214
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	183	268	424	532	582	636	573	429	249	184	96	121
Existing - Alternative 5	183	268	424	532	582	636	573	429	249	184	96	121
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	208	316	428	546	591	584	532	427	251	194	118	124
Existing - Alternative 5	208	316	428	546	591	584	532	427	251	194	118	124
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CVP San Luis Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	717	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	392	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 5

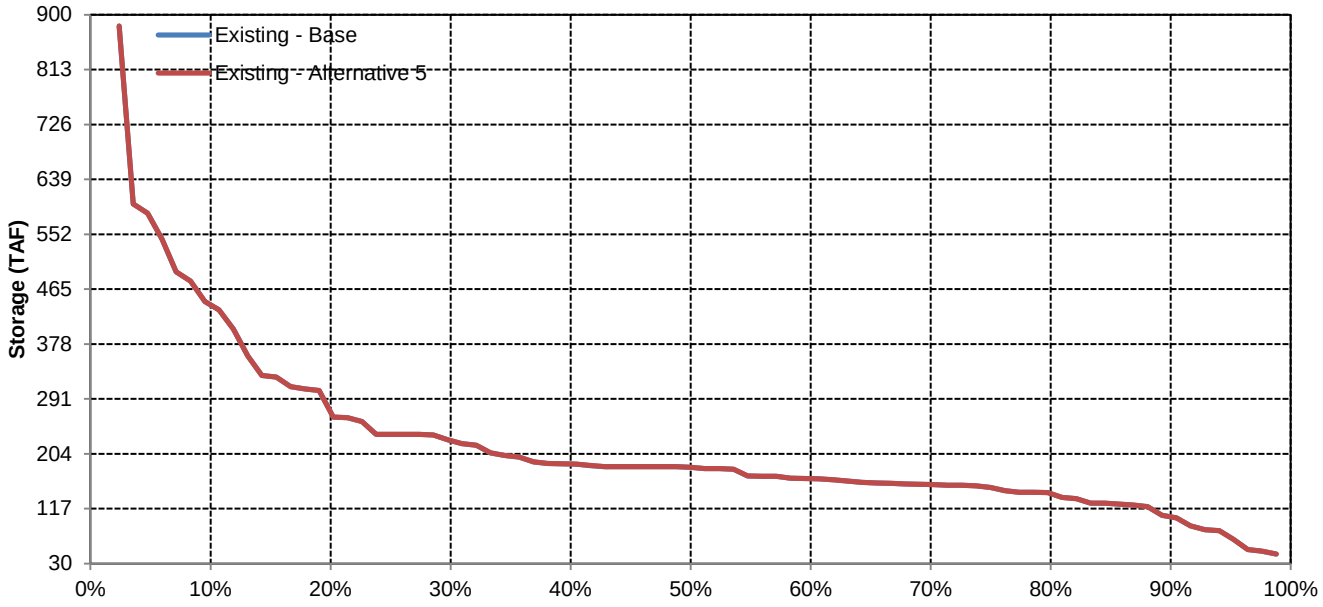
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	423	528	671	789	972	972	941	862	718	525	378	377
20%	262	388	570	728	885	972	879	758	581	448	308	244
30%	221	367	550	687	804	930	836	701	507	347	205	200
40%	187	347	513	652	763	871	800	630	435	241	143	141
50%	182	327	490	594	719	825	746	582	379	222	107	127
60%	164	294	464	568	651	722	658	487	303	178	90	113
70%	155	274	431	535	596	657	587	441	267	143	63	99
80%	139	209	360	482	541	593	537	391	207	105	45	90
90%	104	148	277	434	489	530	490	352	155	56	45	65
Long Term												
Full Simulation Period	217	330	493	616	709	777	712	577	404	261	171	178
Water Year Types												
Wet	230	346	525	677	824	925	859	729	581	362	252	241
Above Normal	231	375	535	653	766	876	790	630	437	201	133	128
Below Normal	227	343	526	627	701	758	697	561	373	276	187	214
Dry	183	268	424	532	582	636	573	429	249	184	96	121
Critical	208	316	428	546	591	584	532	427	251	194	118	124

Existing - Alternative 5 Minus Existing - Base

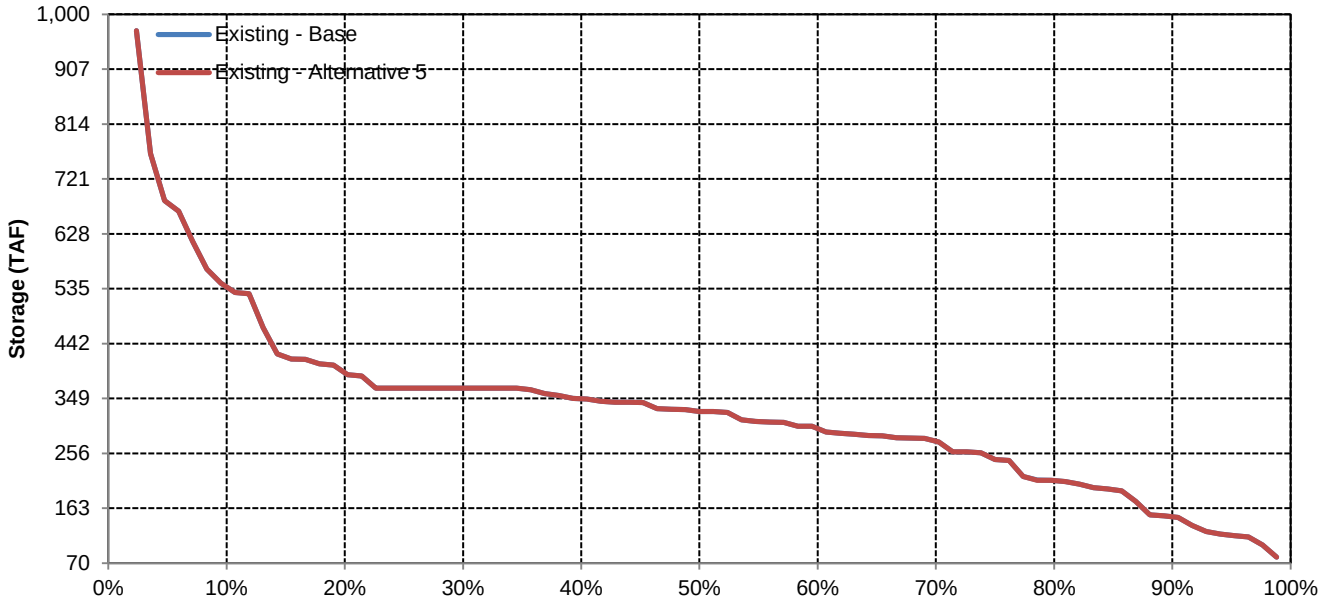
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

CVP San Luis Reservoir

October

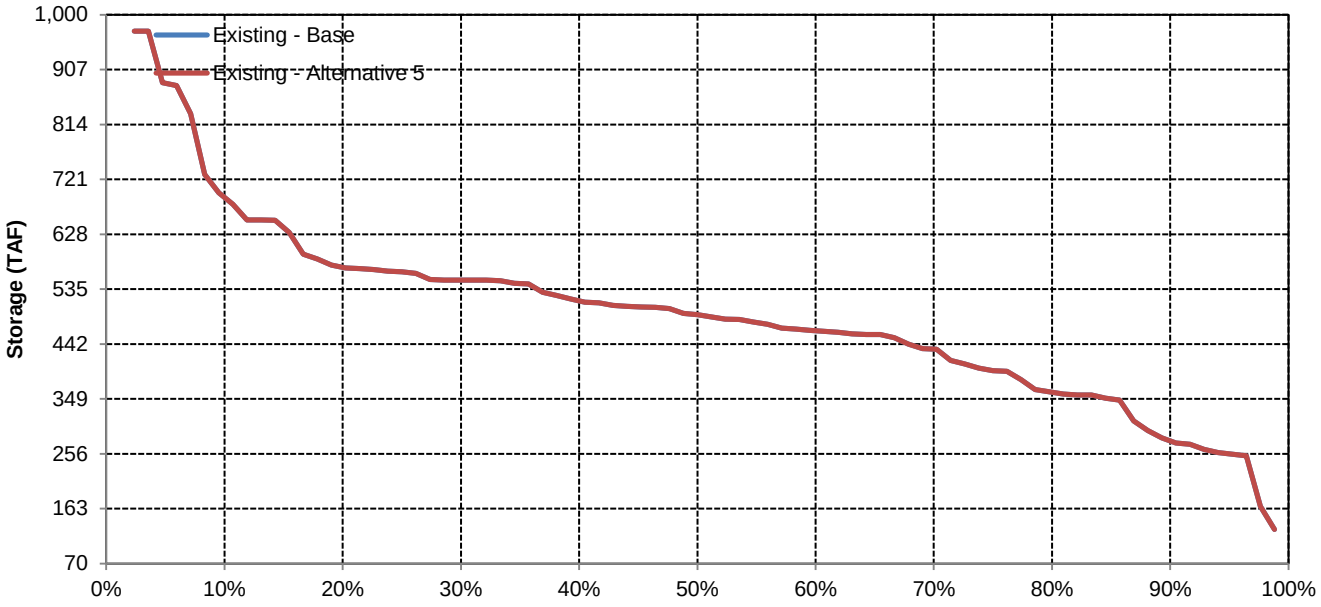


November

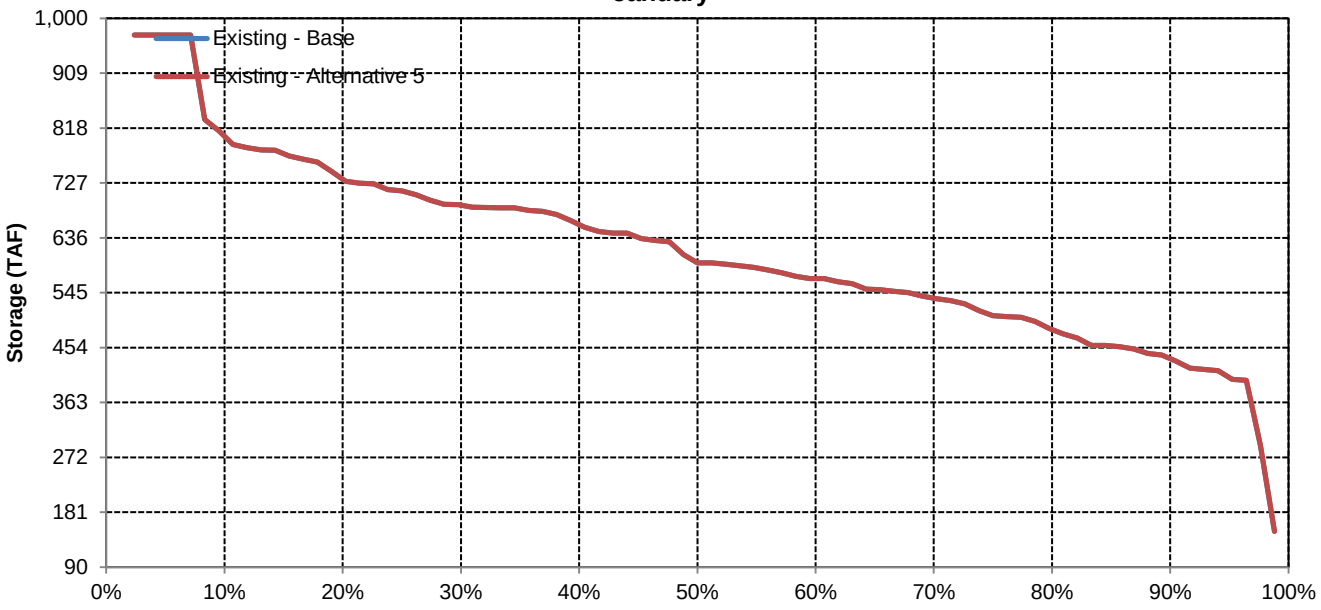


CVP San Luis Reservoir

December

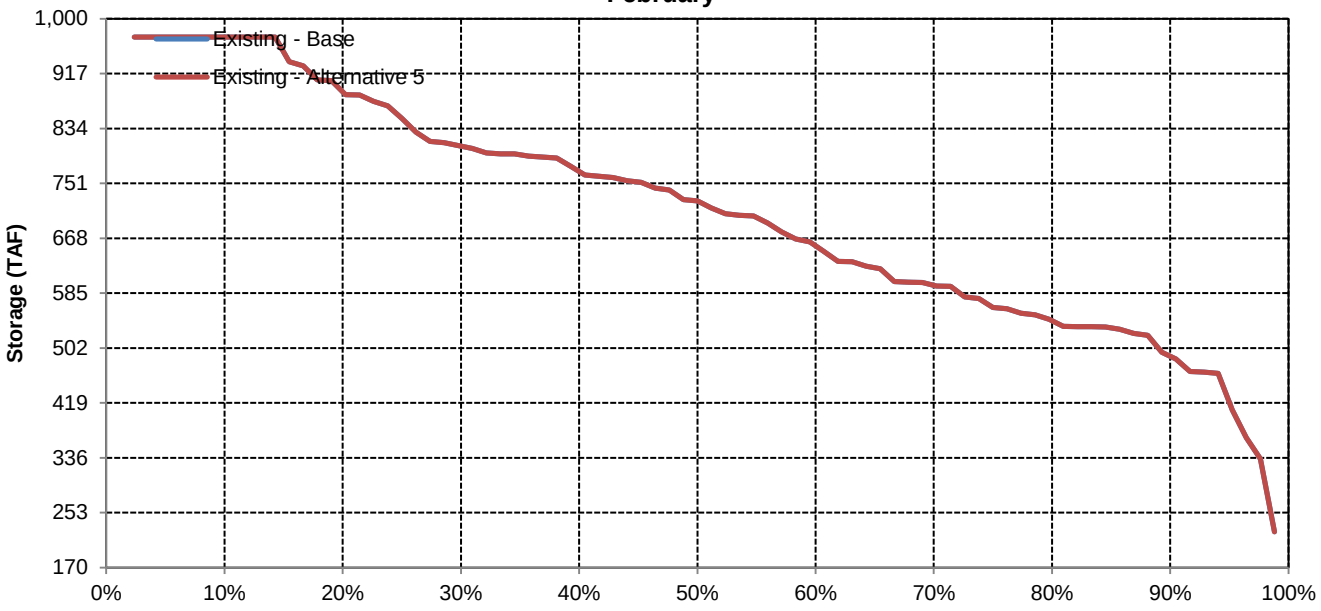


January

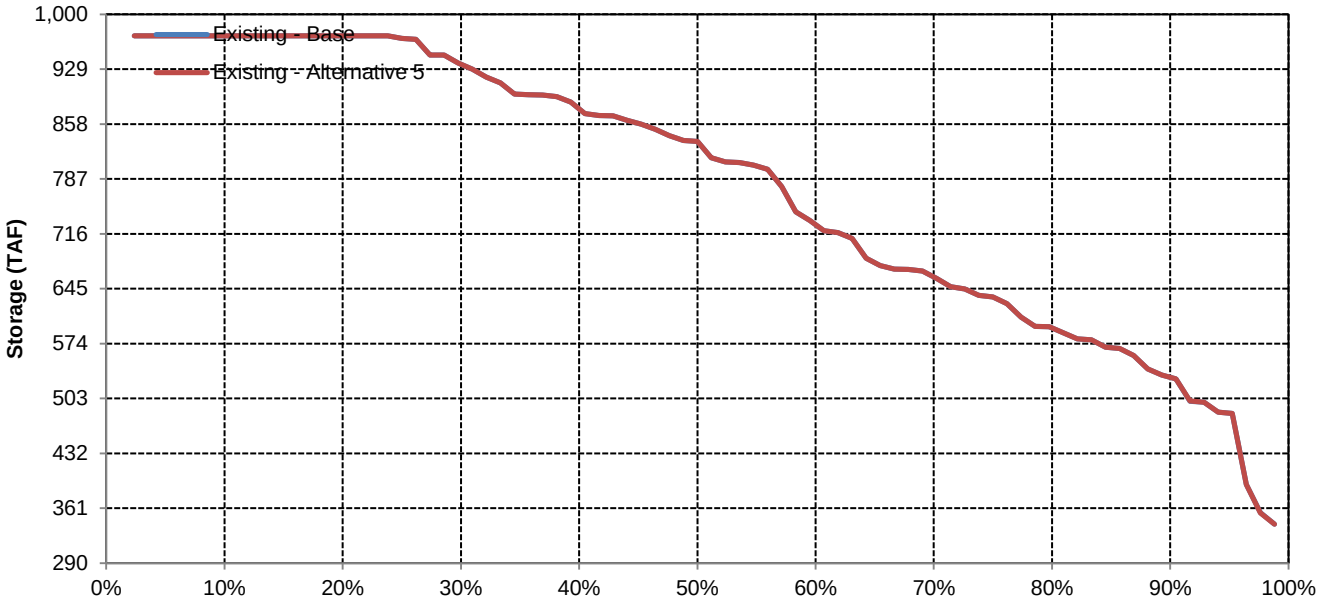


CVP San Luis Reservoir

February

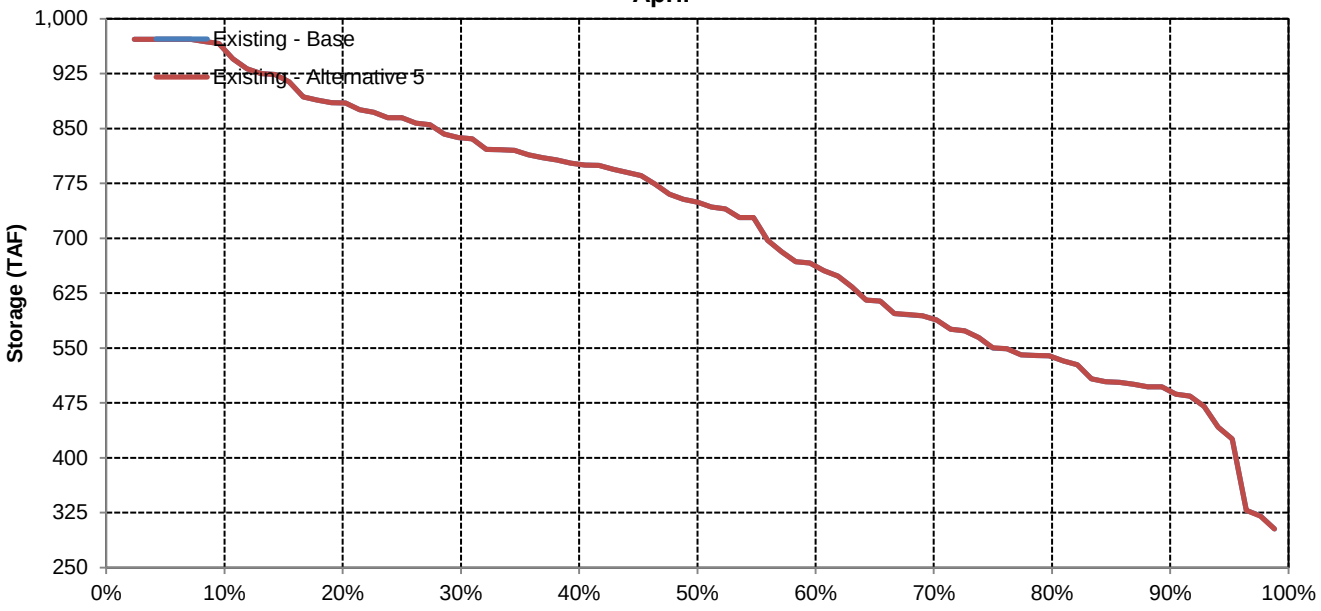


March

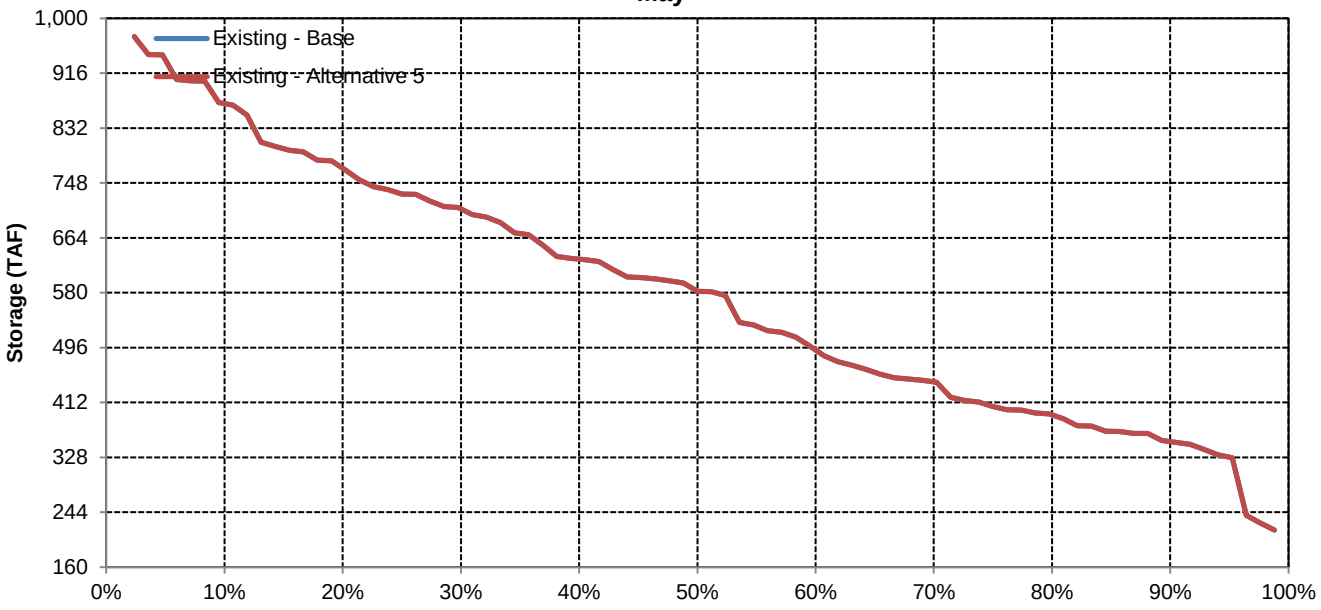


CVP San Luis Reservoir

April

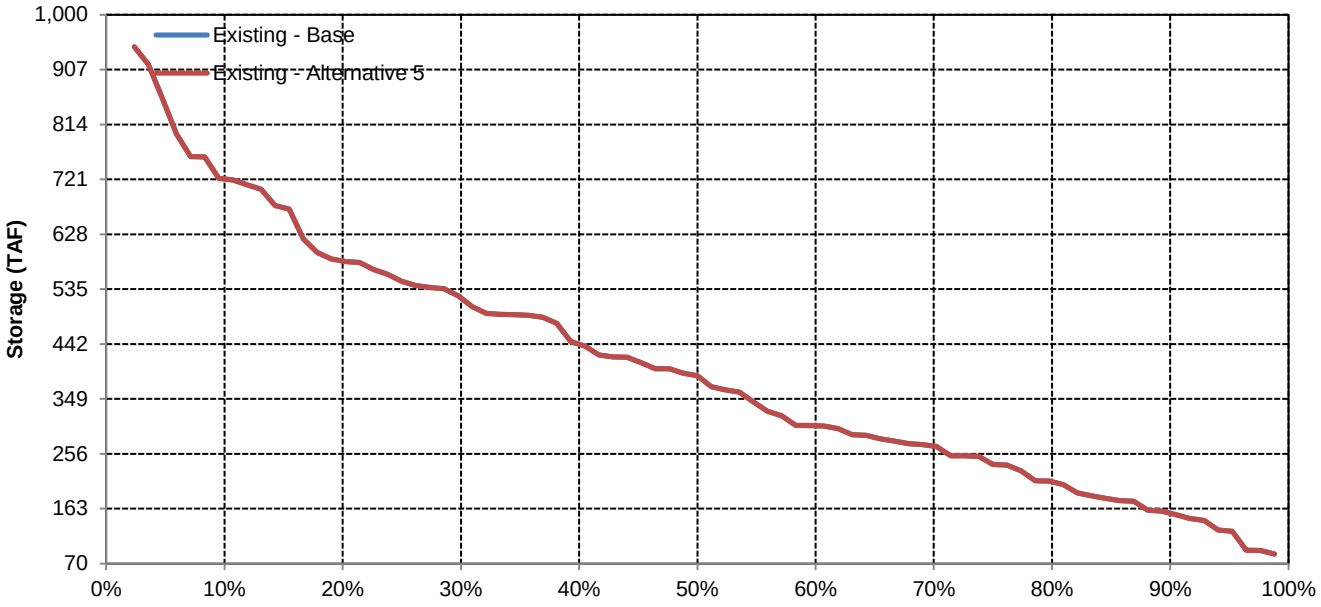


May

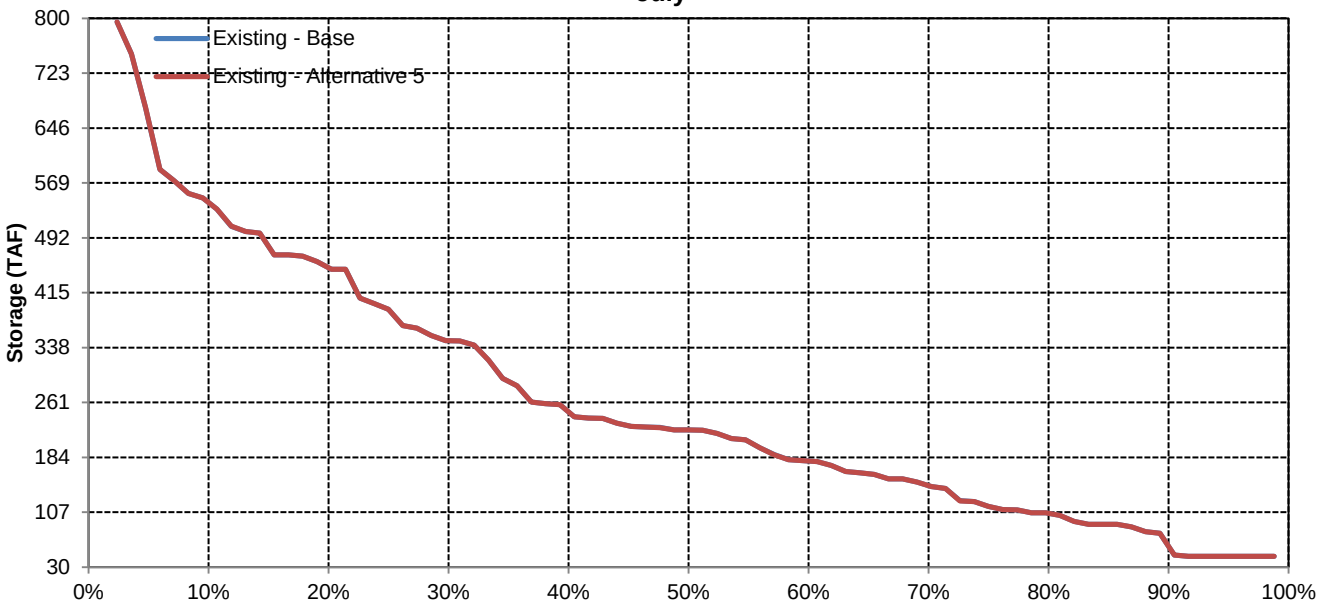


CVP San Luis Reservoir

June

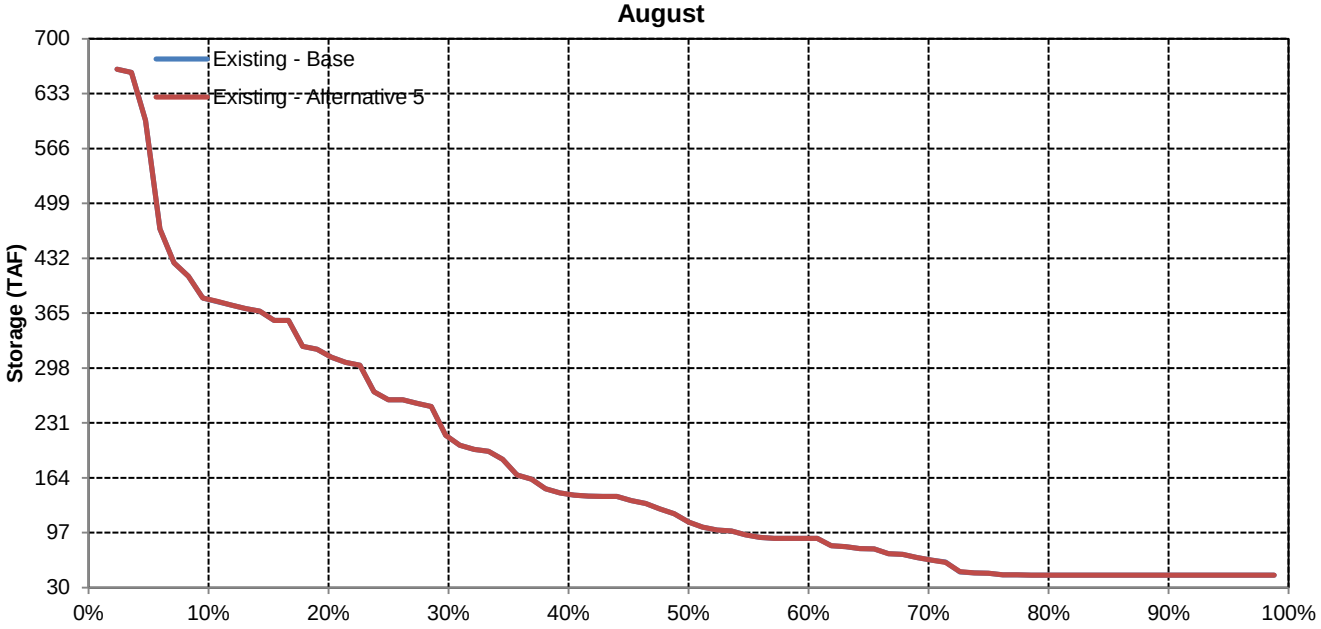


July

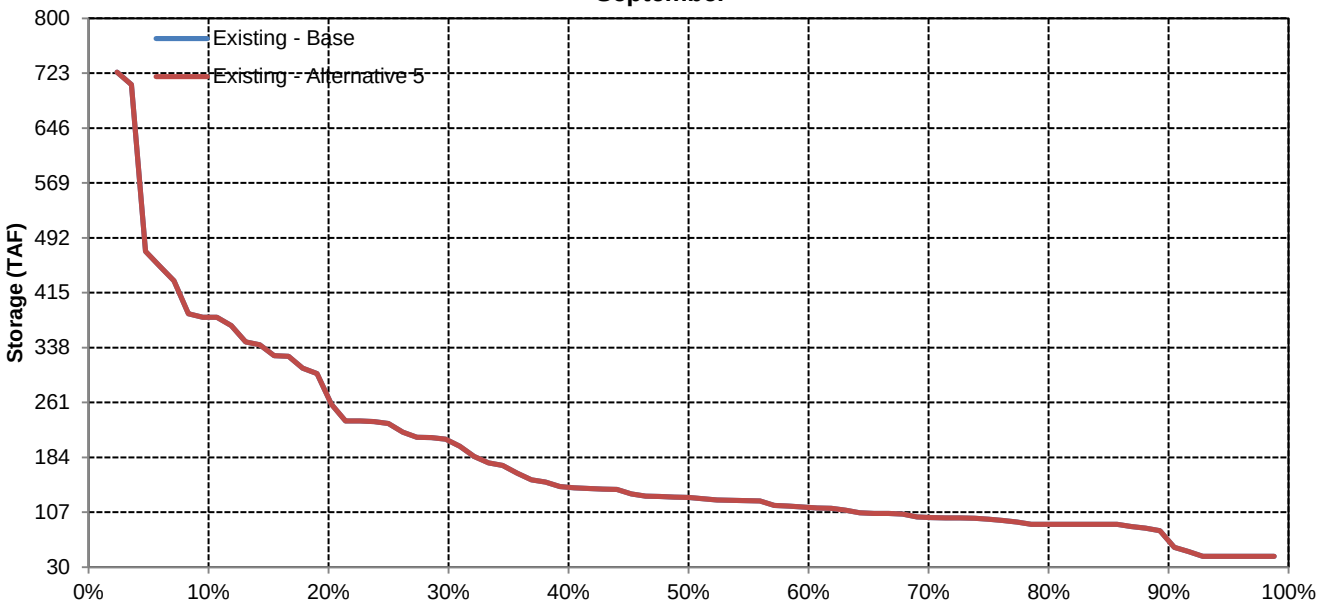


CVP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of SWP San Luis Reservoir Under Existing - Base and Existing - Alternative 5

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	244	268	372	541	678	802	720	562	380	374	324	288
Existing - Alternative 5	244	268	372	541	678	802	720	562	380	374	324	288
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	272	333	431	651	850	980	865	667	471	448	428	363
Existing - Alternative 5	272	333	431	651	850	980	865	667	471	448	428	363
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	259	253	386	576	716	886	757	532	307	308	323	276
Existing - Alternative 5	259	253	386	576	716	886	757	532	307	308	323	276
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	220	246	386	500	622	751	675	512	329	374	370	342
Existing - Alternative 5	220	246	386	500	622	751	675	512	329	374	370	342
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	209	219	300	450	552	670	620	509	348	358	229	234
Existing - Alternative 5	209	219	300	450	552	670	620	509	348	358	229	234
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	249	245	312	459	533	591	579	511	376	305	168	137
Existing - Alternative 5	249	245	312	459	533	591	579	511	376	305	168	137
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

SWP San Luis Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	739	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 5

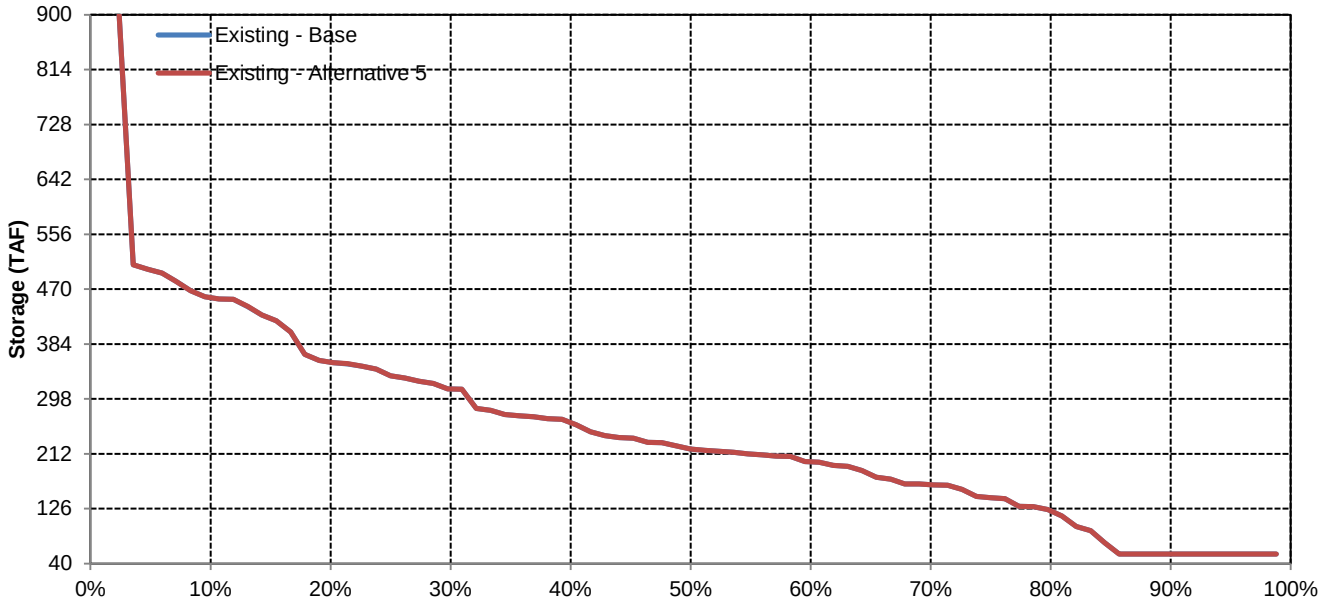
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	454	566	738	973	1,067	1,067	956	791	630	652	562	423
20%	354	407	561	738	914	1,067	931	704	511	491	470	331
30%	313	356	473	654	833	954	863	657	444	447	402	321
40%	255	303	402	546	714	879	804	584	415	402	358	310
50%	218	224	321	495	686	844	737	527	355	358	309	310
60%	199	169	291	431	584	715	642	488	303	309	267	298
70%	163	109	225	389	528	656	584	450	261	255	201	242
80%	121	76	155	325	466	573	528	396	209	231	155	164
90%	55	55	80	262	364	509	458	352	163	166	114	104
Long Term												
Full Simulation Period	244	268	372	541	678	802	720	562	380	374	324	288
Water Year Types												
Wet	272	333	431	651	850	980	865	667	471	448	428	363
Above Normal	259	253	386	576	716	886	757	532	307	308	323	276
Below Normal	220	246	386	500	622	751	675	512	329	374	370	342
Dry	209	219	300	450	552	670	620	509	348	358	229	234
Critical	249	245	312	459	533	591	579	511	376	305	168	137

Existing - Alternative 5 Minus Existing - Base

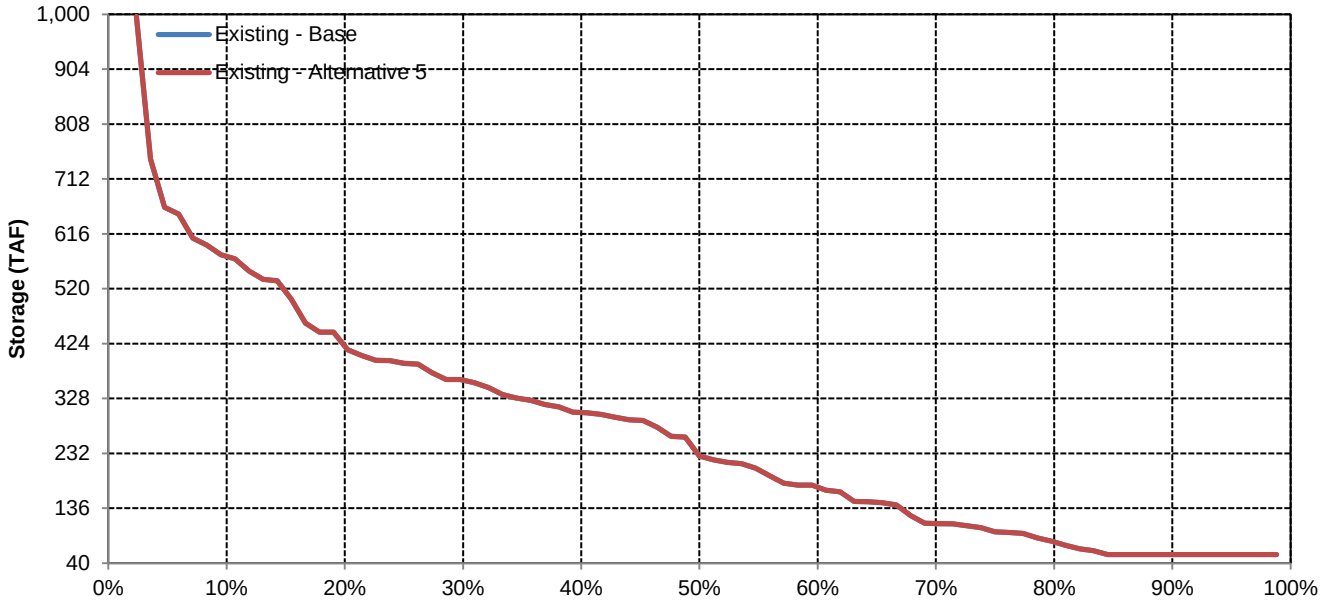
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

SWP San Luis Reservoir

October

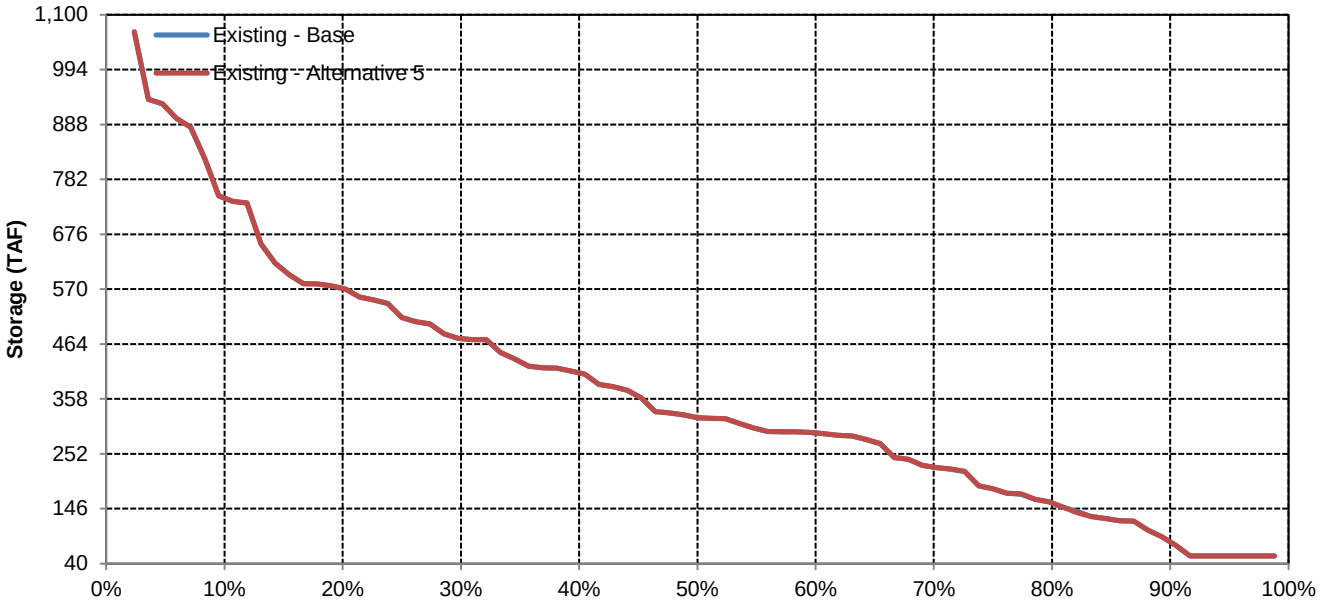


November

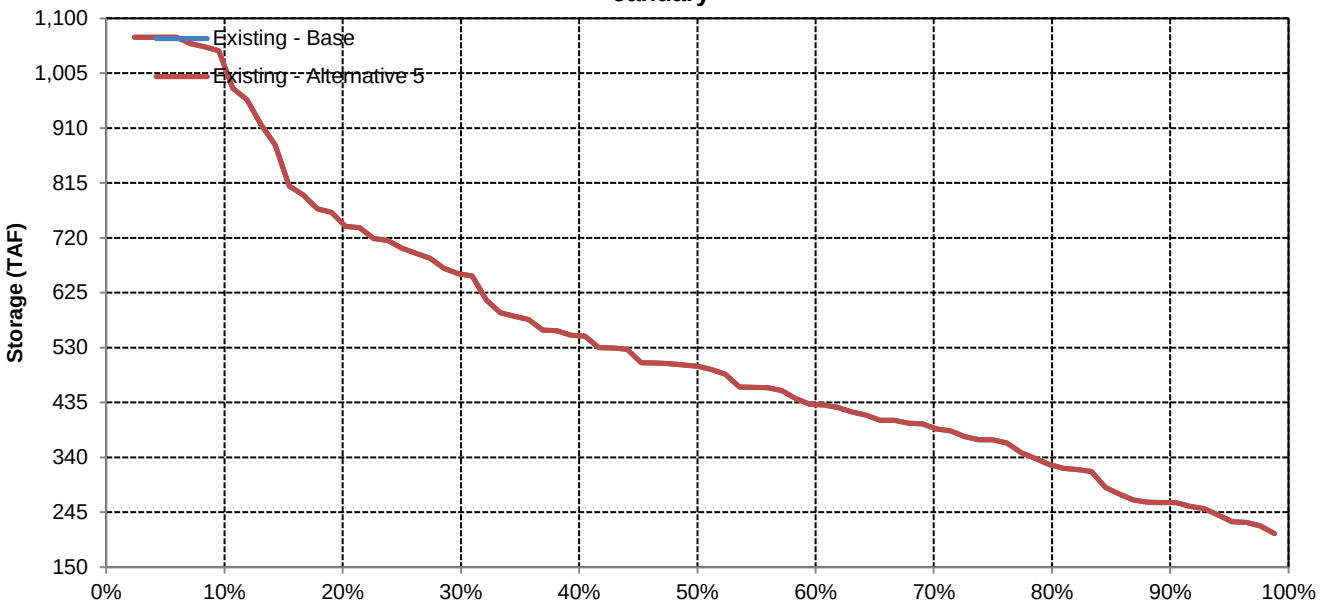


SWP San Luis Reservoir

December

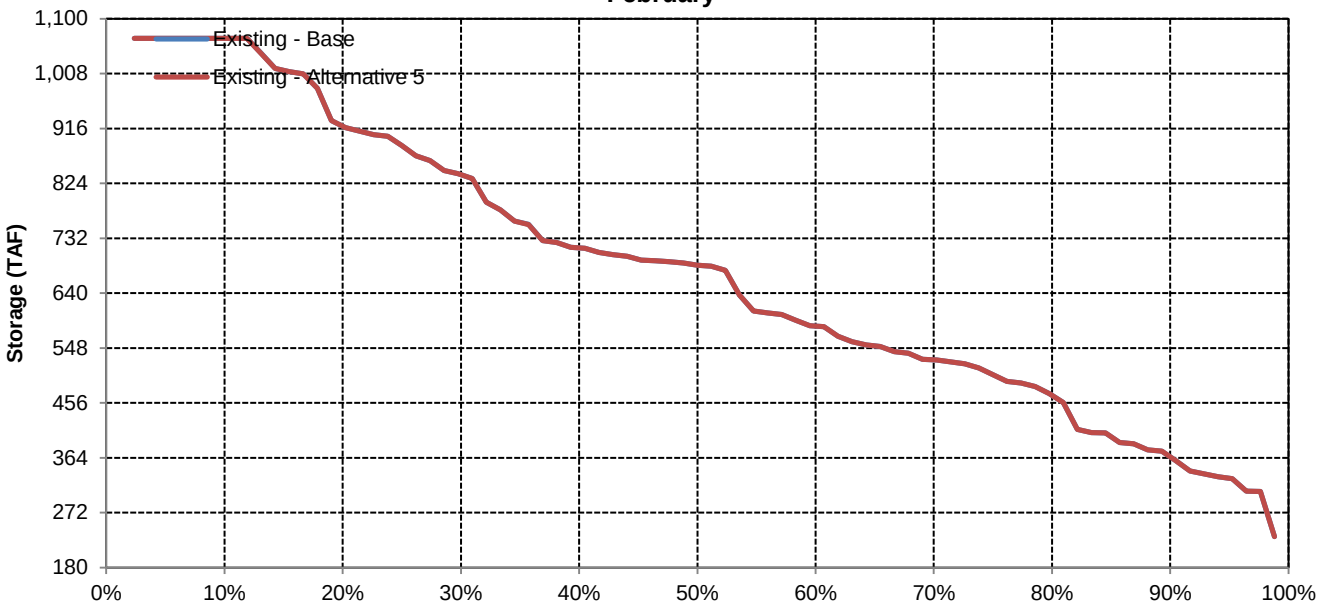


January

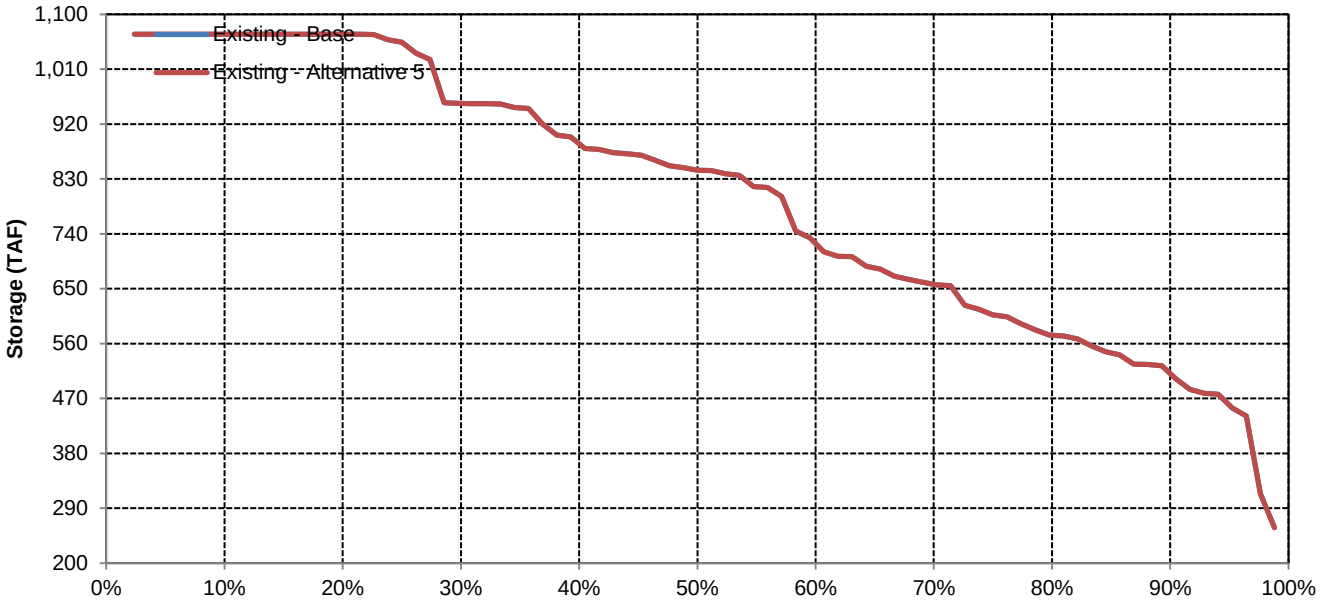


SWP San Luis Reservoir

February

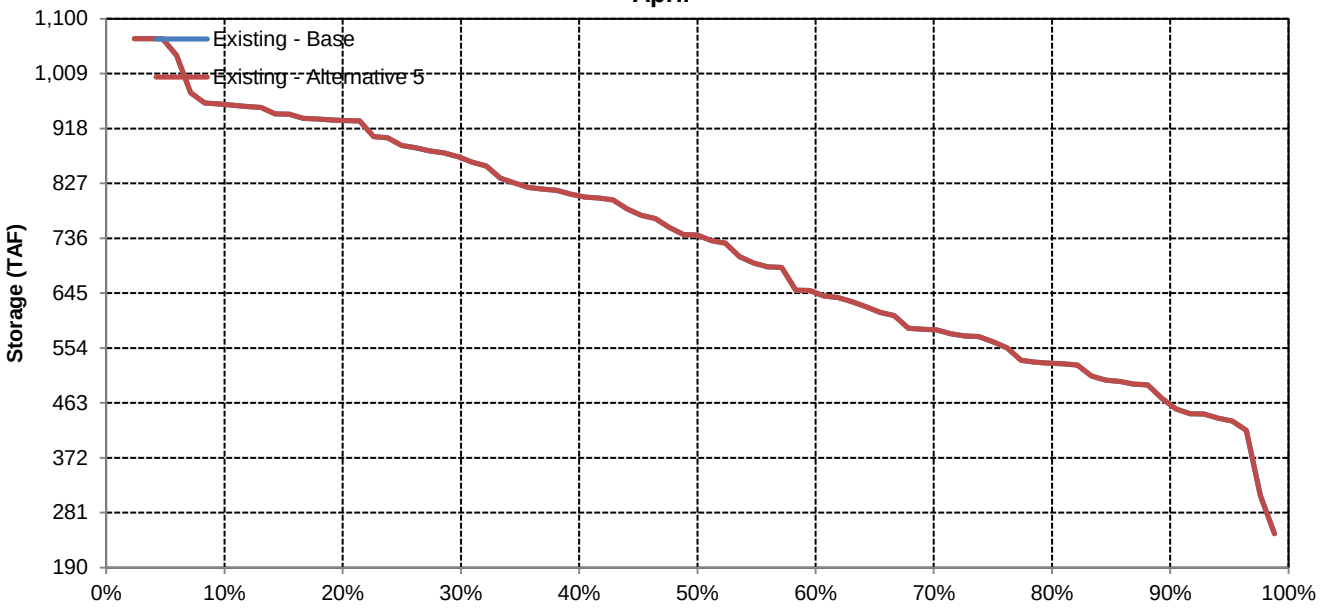


March

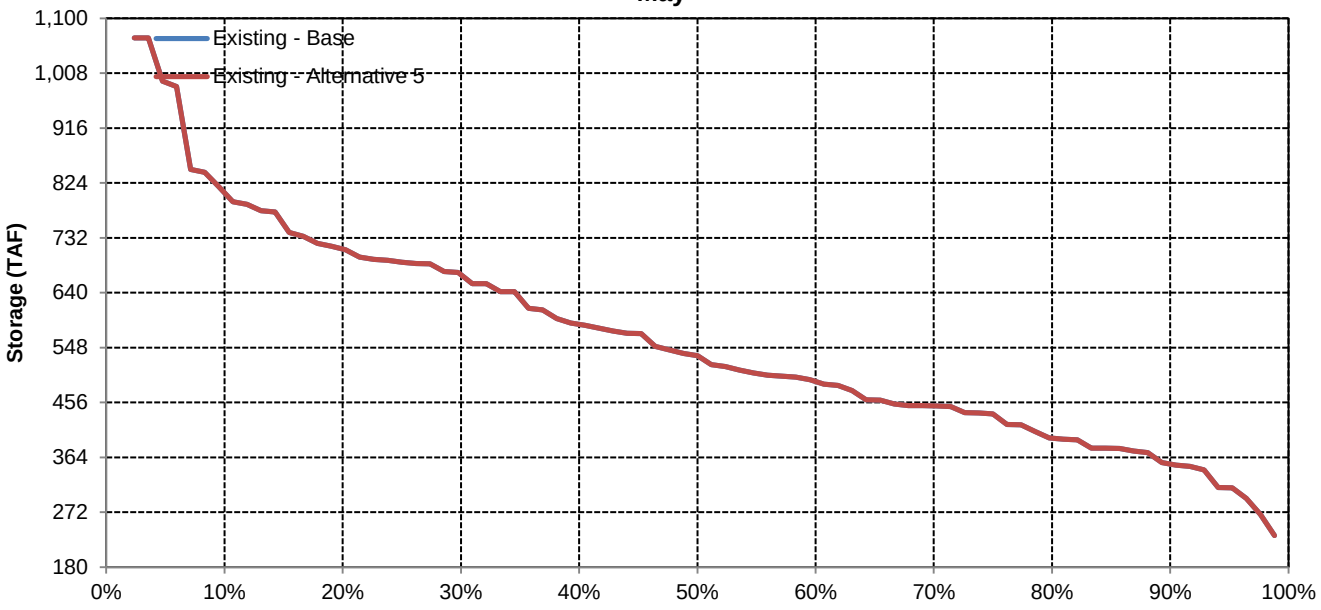


SWP San Luis Reservoir

April

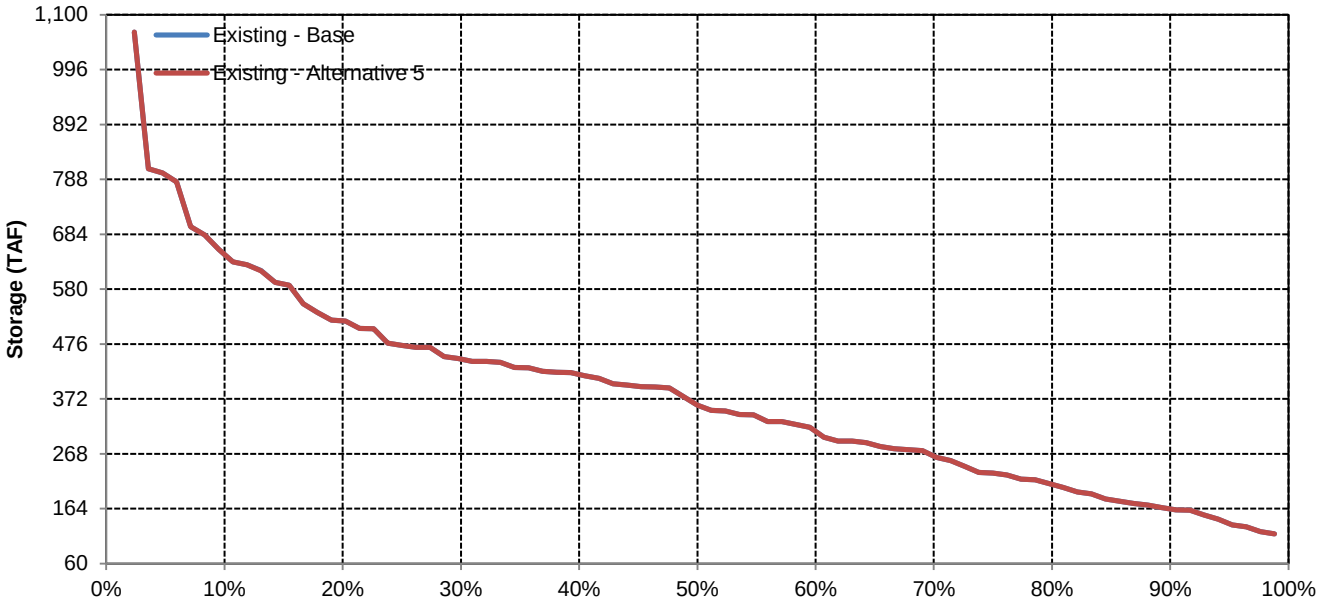


May

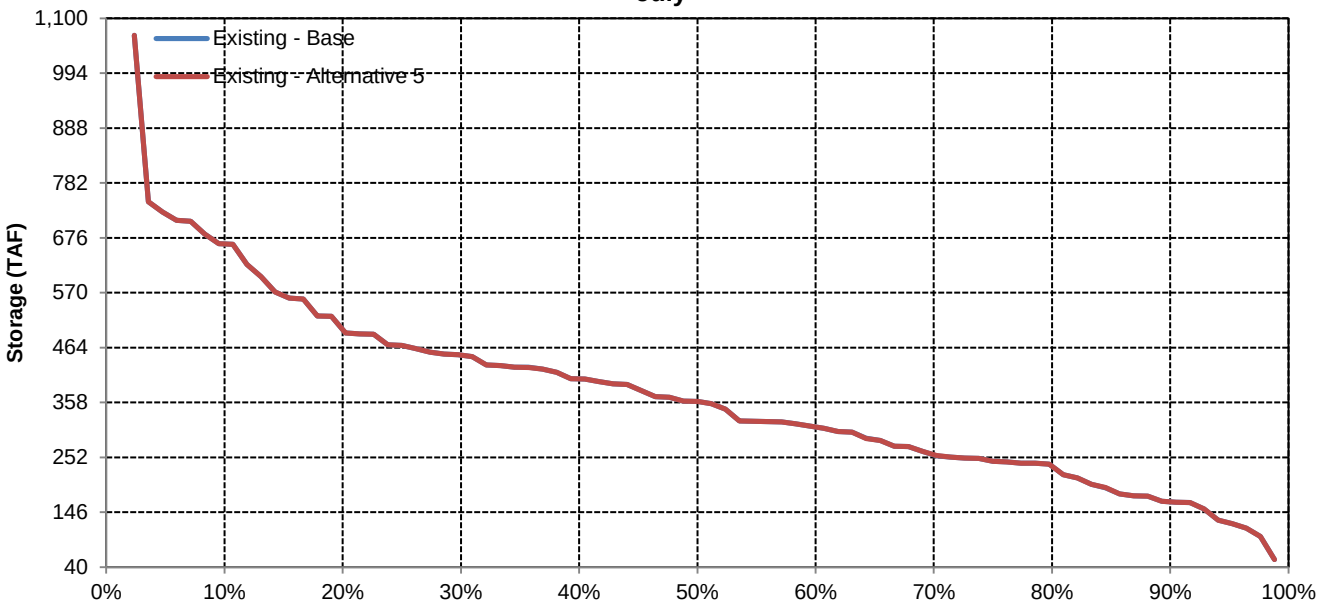


SWP San Luis Reservoir

June

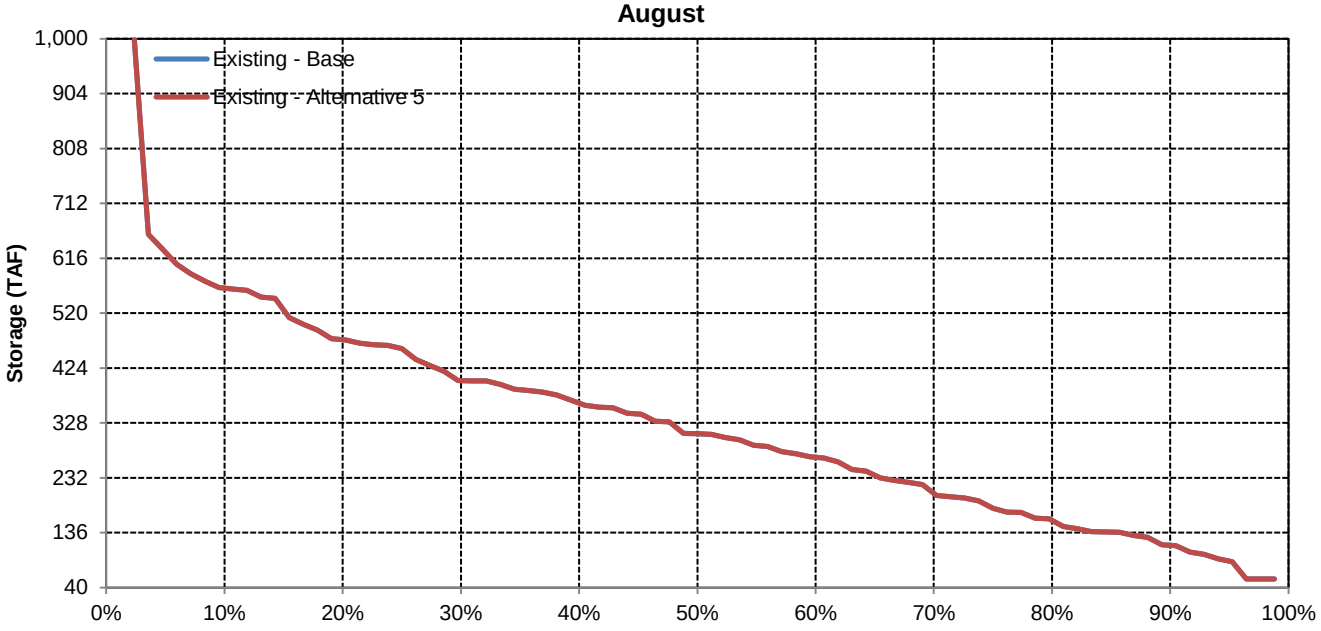


July

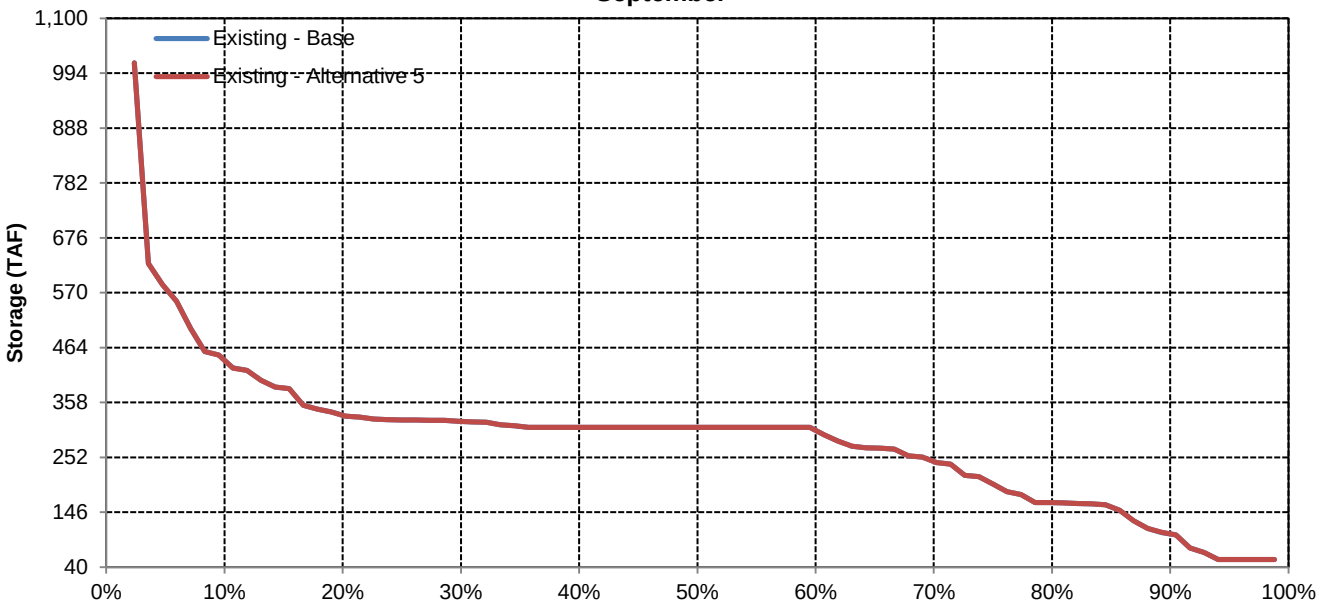


SWP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of Delta Outflow Under Existing - Base and Existing - Alternative 5

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331	16,820
Existing - Alternative 5	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331	16,820
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366	31,372
Existing - Alternative 5	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366	31,372
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Existing - Alternative 5	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133	18,336
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469	10,847
Existing - Alternative 5	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469	10,847
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269	7,873
Existing - Alternative 5	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269	7,873
Difference	0	0	0	0	0	0	0	-1	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Existing - Alternative 5	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010	5,383
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Delta Outflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,309	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,991	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,714	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,777	38,477	22,321	12,858	7,100	9,084	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,867	31,169	18,044	11,426	7,100	8,603	4,000	3,914
60%	4,000	6,253	6,752	19,211	28,692	22,356	14,643	10,166	6,905	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,591	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,597	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,386	48,782	63,791	48,782	30,013	16,104	7,983	8,482	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,556	101,579	121,325	88,381	55,563	26,753	10,584	11,022	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,727	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,328	6,819	8,808	4,050	3,469
Dry	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,982	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 5

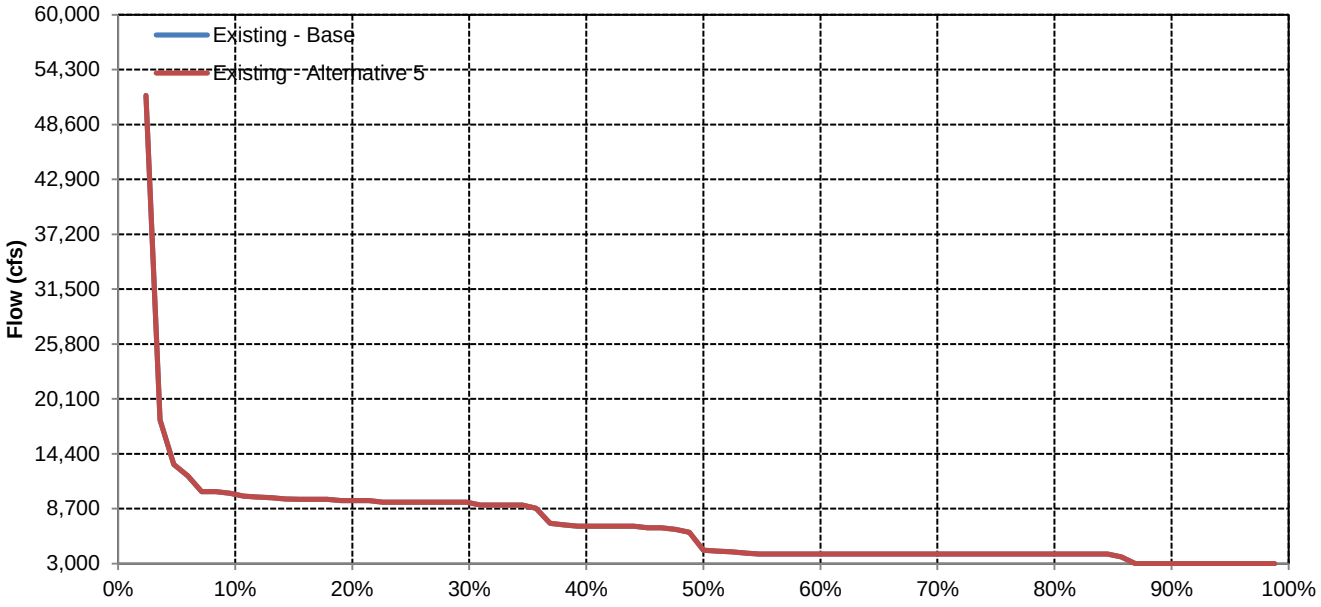
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	9,977	15,194	83,333	120,592	161,827	97,068	71,454	33,132	11,137	13,270	4,308	19,688
20%	9,531	14,688	37,738	76,978	107,377	74,847	46,407	23,720	7,992	11,709	4,155	19,375
30%	9,094	12,769	20,214	55,546	76,161	60,341	32,656	15,272	7,100	10,714	4,001	17,813
40%	6,875	10,418	14,342	38,012	58,776	38,477	22,321	12,858	7,100	9,085	4,000	10,938
50%	4,346	9,766	11,487	26,488	41,867	31,169	18,044	11,426	7,100	8,603	4,000	3,913
60%	4,000	6,253	6,753	19,211	28,692	22,356	14,643	10,166	6,903	8,000	4,000	3,569
70%	4,000	4,500	5,009	13,355	21,621	17,008	12,821	9,402	6,688	5,592	4,000	3,000
80%	4,000	4,500	4,670	10,293	17,232	14,703	11,016	7,596	6,187	5,000	4,000	3,000
90%	3,000	3,500	4,500	7,972	12,426	10,776	9,604	6,918	5,655	4,000	3,791	3,000
Long Term												
Full Simulation Period	6,909	11,530	25,387	48,782	63,791	48,782	30,013	16,104	7,983	8,483	4,062	9,331
Water Year Types												
Wet	9,275	19,272	57,557	101,579	121,326	88,381	55,563	26,753	10,584	11,023	4,128	19,366
Above Normal	6,741	9,314	21,144	55,453	70,726	61,417	29,722	17,425	7,395	11,464	4,017	11,133
Below Normal	6,527	9,662	10,110	23,902	40,103	31,158	23,270	13,327	6,819	8,808	4,050	3,469
Dry	5,825	7,923	8,608	15,426	29,458	22,607	13,161	8,981	7,006	5,274	4,137	3,269
Critical	4,133	5,072	6,622	11,837	16,327	13,519	9,101	6,026	6,104	4,027	3,889	3,010

Existing - Alternative 5 Minus Existing - Base

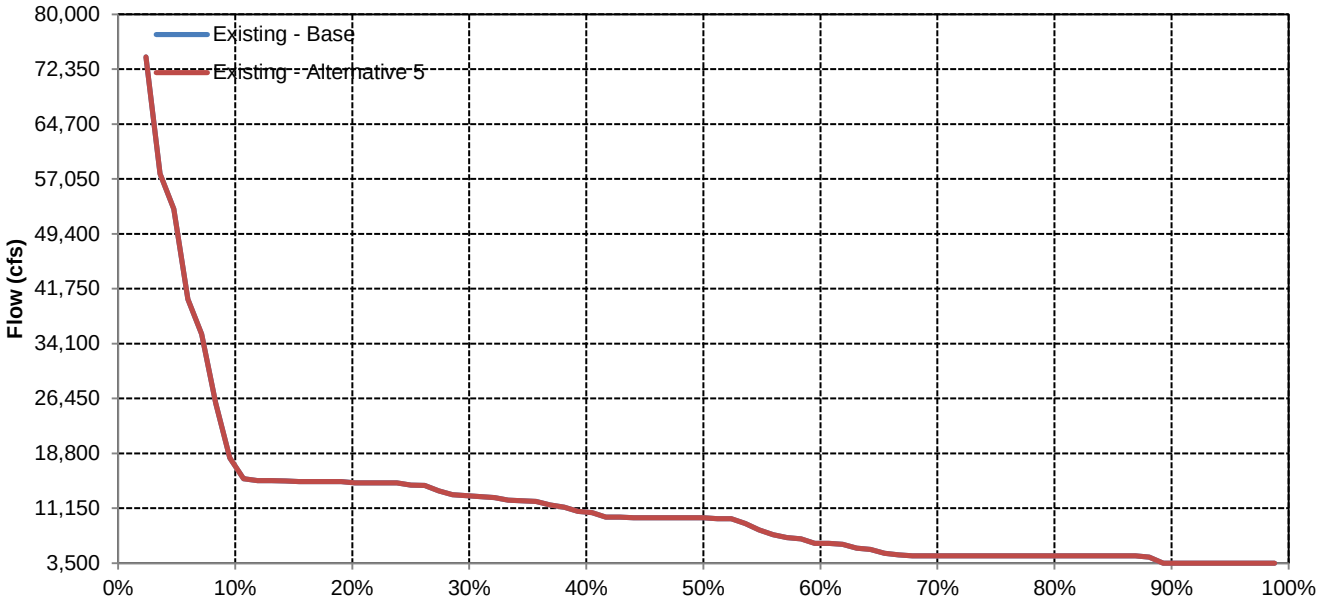
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	-1	0
20%	0	0	0	0	0	0	0	0	1	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	-1
60%	0	0	0	0	0	0	0	0	-1	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	-1	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	-1	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Delta Outflow

October

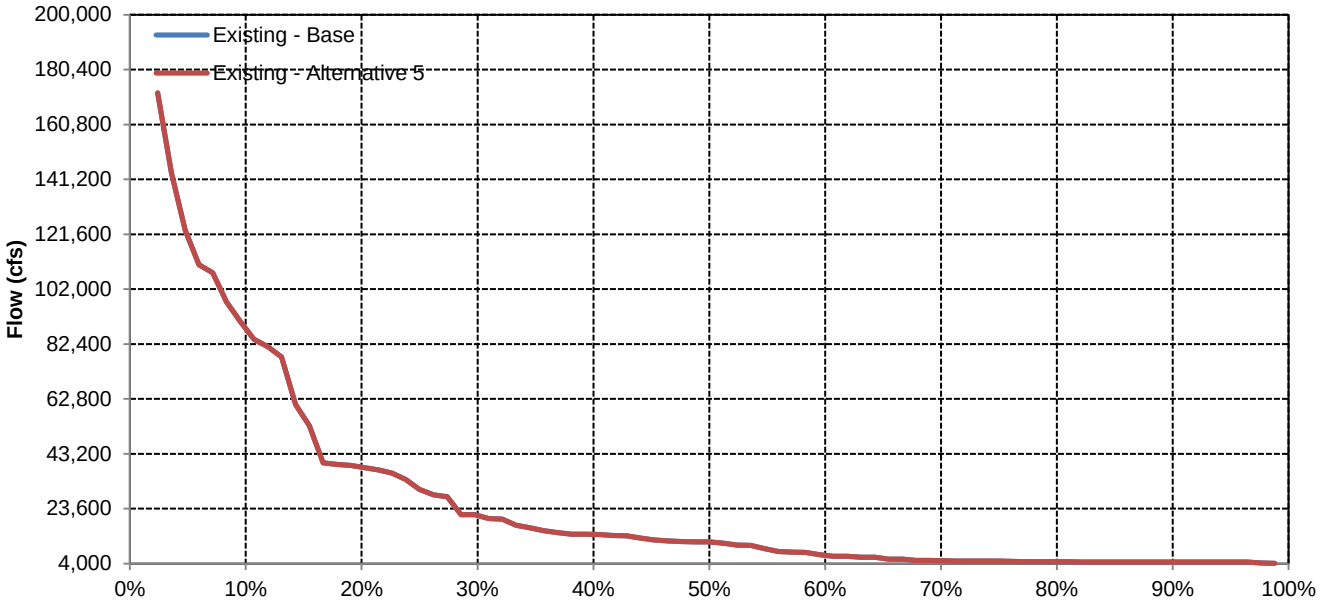


November

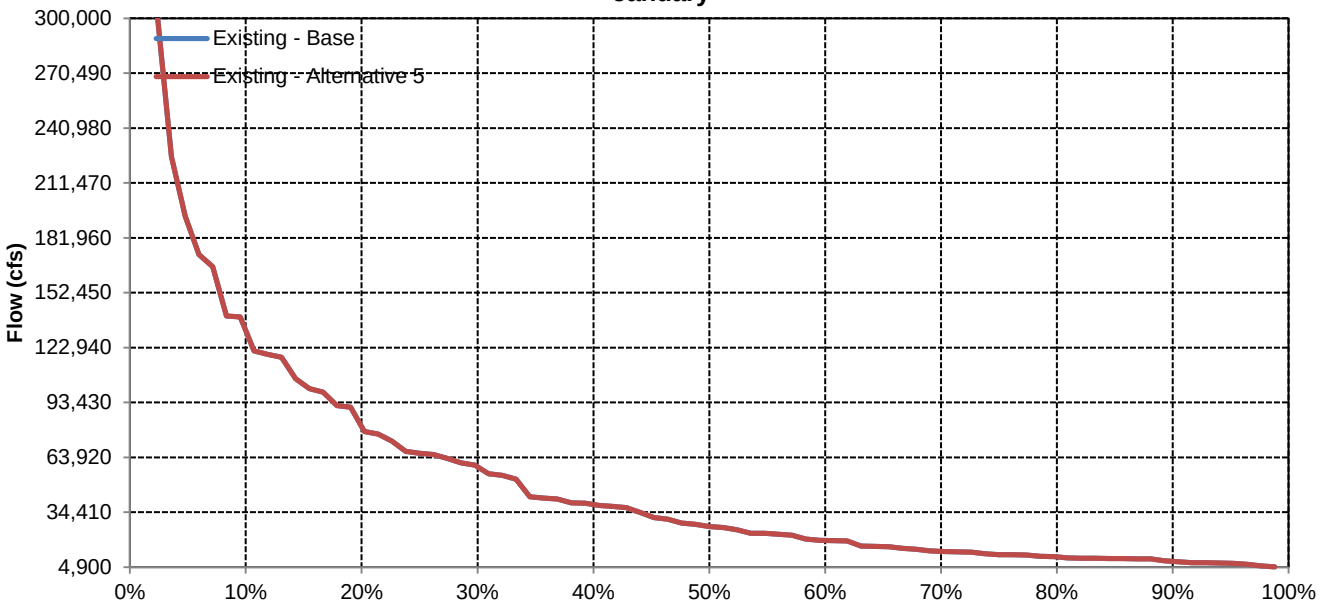


Delta Outflow

December

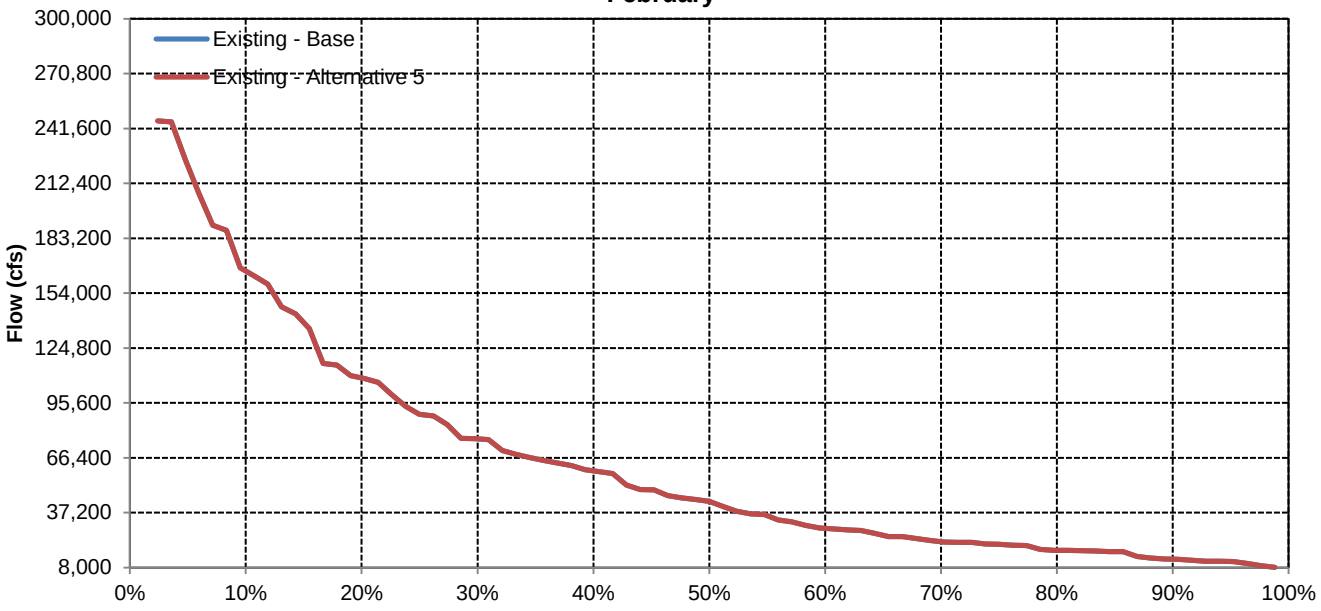


January

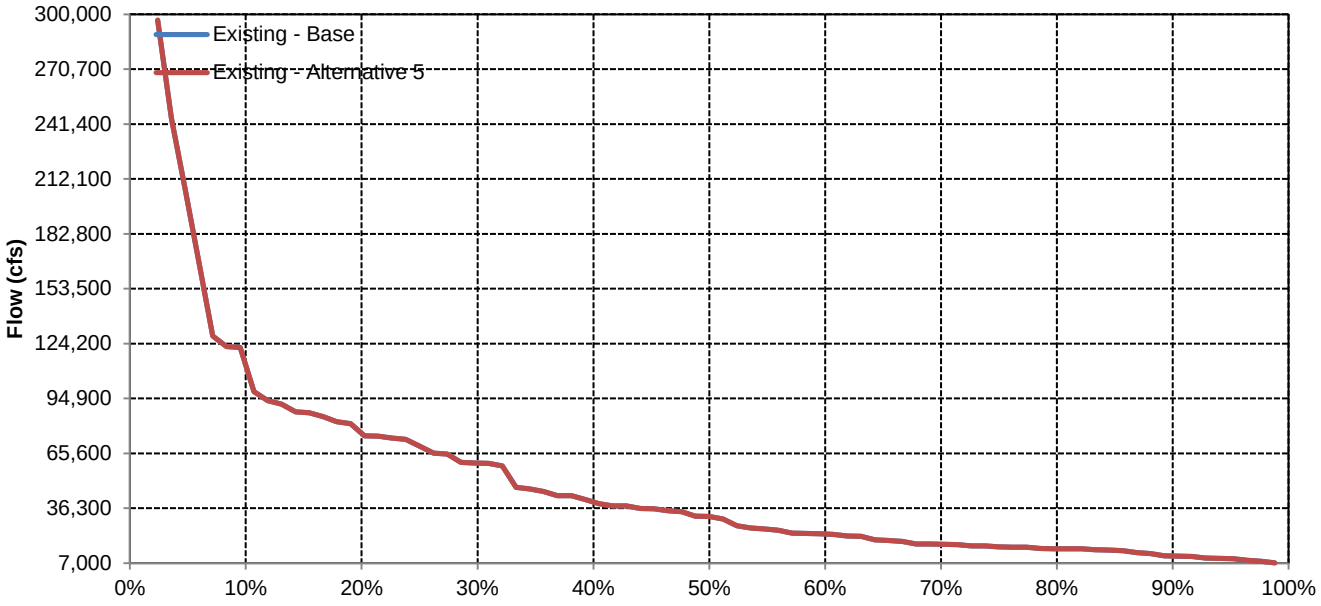


Delta Outflow

February

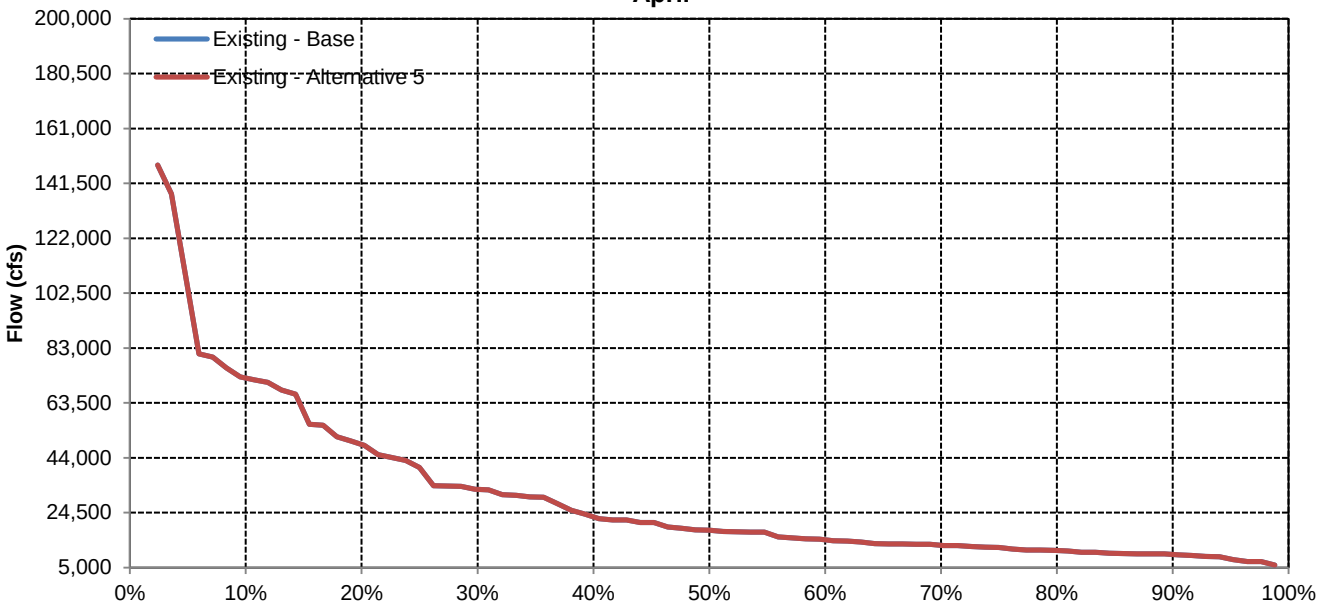


March

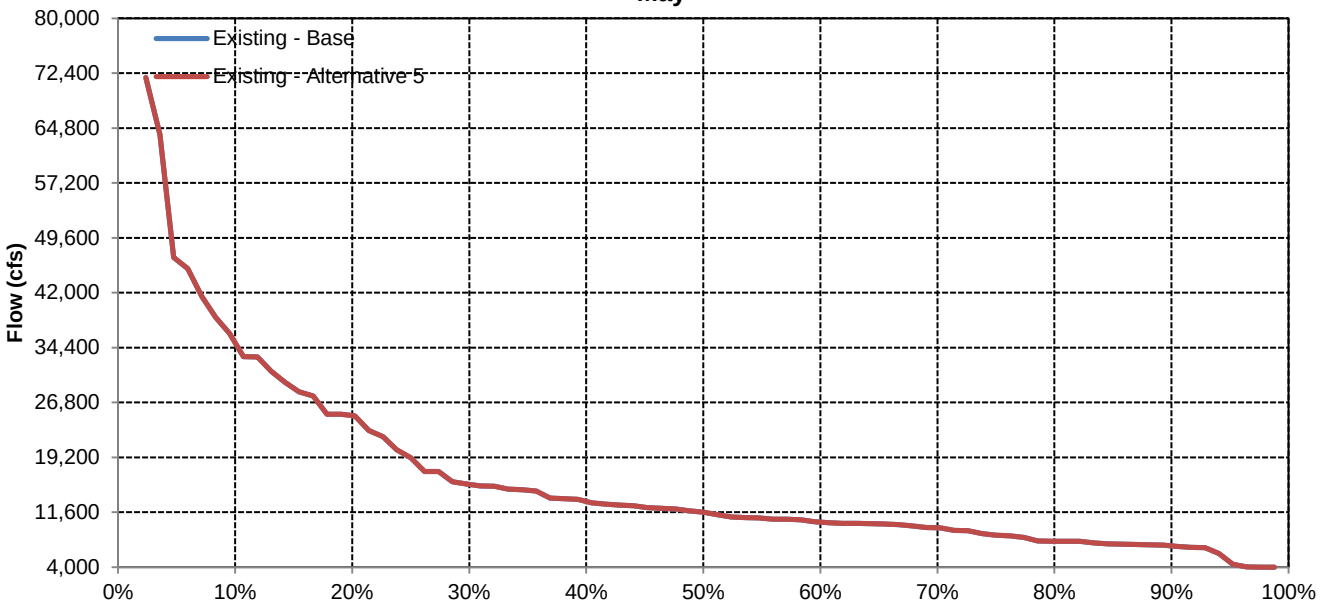


Delta Outflow

April

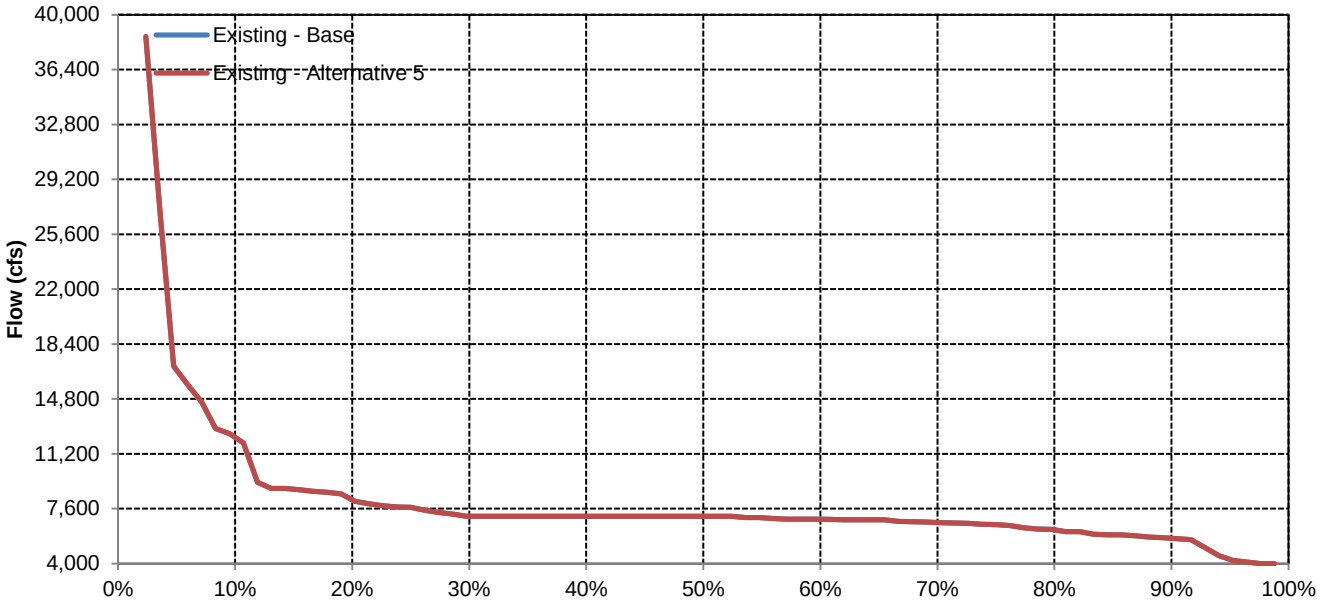


May

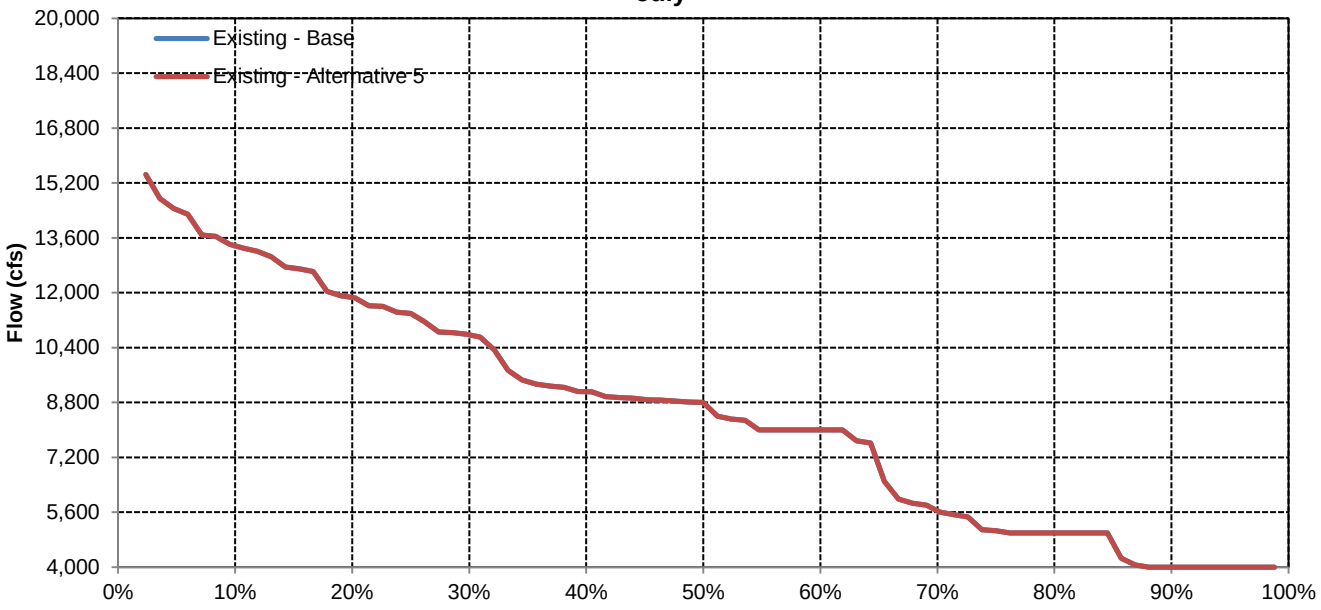


Delta Outflow

June

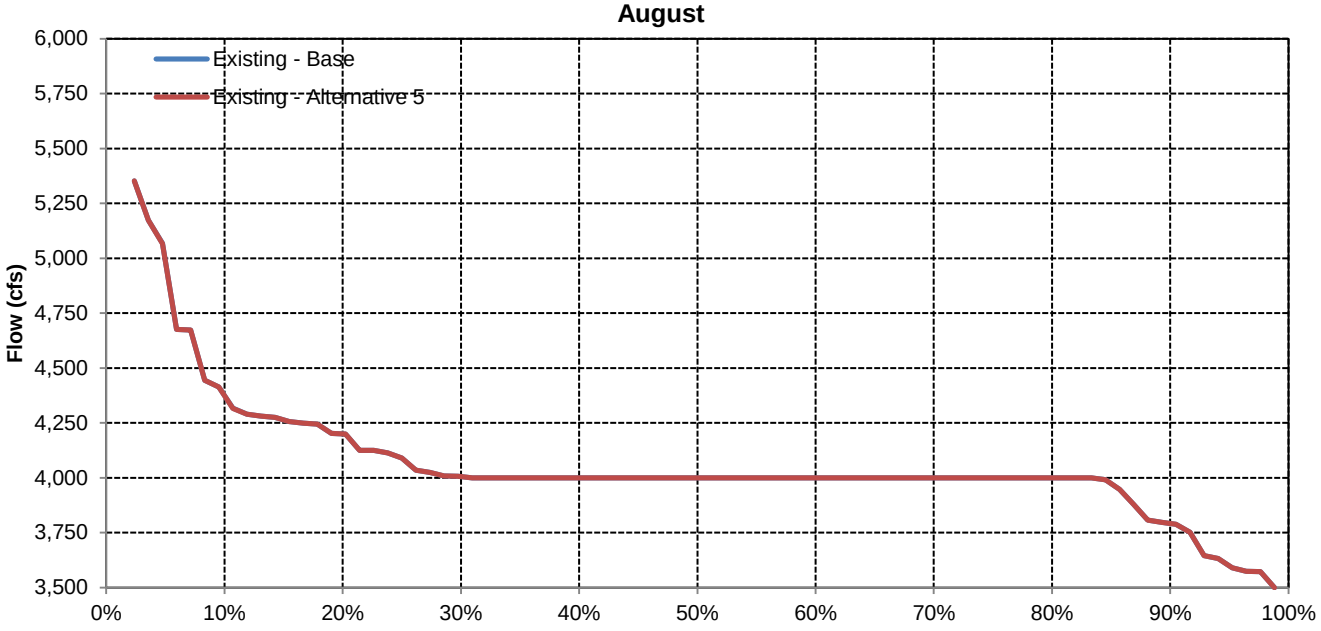


July



Delta Outflow

August



September

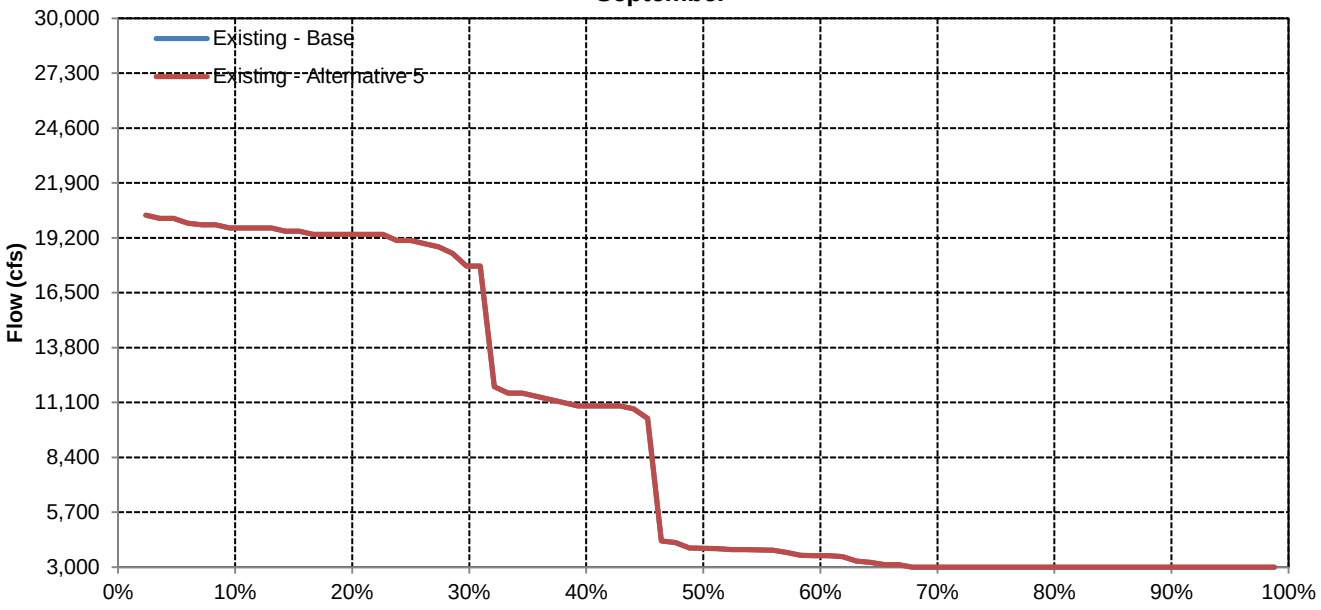


Table 185 Existing Condtions-Alternative 5 (Existing)

Winter-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	November through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Juvenile Rearing and Downstream Movement*	July through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
			Freeport	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0

Table 186 Existing Condtions-Alternative 5 (Existing)

Spring-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	March through September	Mean Monthly Flow (cfs)	Verona		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%						0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	64		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years						0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juvenile Rearing (and Downstream Movement)	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	October through May	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport	63		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 187 Existing Condtions-Alternative 5 (Existing)

Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	July through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0							0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0							0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	December through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				65		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 188 Existing Condtions-Alternative 5 (Existing)

Late Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Staging	October through April	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Juvenile Rearing and Downstream Movement	April through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
				65		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0

Table 189 Existing Condtions-Alternative 5 (Existing)

Steelhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	August through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smolt Emigration	January through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport	52		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	-1.2	0.0	0.0	0.0			

Table 190 Existing Condtions-Alternative 5 (Existing)

Green Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	February through July	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years					0.0	0.0	0.0	0.0	0.0	0.0		
Adult Post-Spawning Holding and Emigration	July through November	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 191 Existing Condtions-Alternative 5 (Existing)

White Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	November through May	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Freeport	77		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Spawning and Egg Incubation	February through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years					0.0	0.0	0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 192 Existing Condtions-Alternative 5 (Existing)

River Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	September through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 193 Existing Condtions-Alternative 5 (Existing)

Pacific Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	January through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 194 Existing Condtions-Alternative 5 (Existing)

Hardhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adults and Other Lifestages	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adult Spawning	April through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	59-64		All Years							0.0	0.0	0.0			

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 195 Existing Condtions-Alternative 5 (Existing)

American Shad in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
			Freeport		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	60-70		All Years							0.0	0.0	0.0			
			Freeport	60-70		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	63-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 196 Existing Condtions-Alternative 5 (Existing)

Striped Bass in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	59-68		All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-71		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1]Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 201 Existing Condtions-Alternative 5 (Existing)

Alternative 5 (Existing) vs Existing Condtions
Sacramento River at Verona, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	85.4	54.9	43.9	41.5	54.9	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	14.6	42.7	56.1	56.1	41.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-14.6	-42.7	-56.1	-56.1	-41.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	54.5	75.8	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	39.4	21.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-39.4	-21.2	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 202 Existing Condtions-Alternative 5 (Existing)

Alternative 5 (Existing) vs Existing Condtions
Sacramento River at Freeport, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	84.1	58.5	45.1	43.9	63.4	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	14.6	40.2	54.9	54.9	30.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	-14.6	-40.2	-54.9	-54.9	-30.5	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	84.8	57.6	90.9	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	15.2	42.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	-15.2	-42.4	-6.1	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 5 (Existing) vs Existing Condtions

Sacramento River at Feather River, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 5 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	98.0	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	95.7	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	81.1	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	20.7	4.9	94.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	2.4	1.2	81.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	97.8	2.1	1.2	51.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	78.0	1.4	1.2	12.2	87.8	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	58.5	1.2	1.2	4.7	74.6	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	34.1	1.2	1.2	1.4	65.2	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	18.3	1.2	1.2	1.2	41.5	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	7.6	1.2	1.2	1.2	23.2	95.9	98.8	98.8	98.8	98.8	98.8
57	98.8	2.4	1.2	1.2	1.2	14.0	94.7	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	5.5	86.6	98.8	98.8	98.8	98.8	98.8
59	96.7	1.2	1.2	1.2	1.2	3.2	77.6	98.8	98.8	98.8	98.8	98.8
60	85.4	1.2	1.2	1.2	1.2	2.4	68.3	98.8	98.8	98.8	98.8	98.8
61	62.8	1.2	1.2	1.2	1.2	1.8	57.3	98.8	98.8	98.8	98.8	98.8
62	44.5	1.2	1.2	1.2	1.2	1.2	43.9	98.0	98.8	98.8	98.8	98.8
63	23.2	1.2	1.2	1.2	1.2	1.2	35.4	96.9	98.8	98.8	98.8	98.8
64	14.6	1.2	1.2	1.2	1.2	1.2	13.3	95.5	98.8	98.8	98.8	98.8
65	7.6	1.2	1.2	1.2	1.2	1.2	10.4	89.6	98.8	98.8	98.8	93.3
66	4.5	1.2	1.2	1.2	1.2	1.2	4.3	85.4	98.8	98.8	98.8	90.2
68	1.5	1.2	1.2	1.2	1.2	1.2	1.2	48.8	98.2	98.8	98.8	65.9
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	29.3	94.1	98.8	98.8	53.7
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.2	85.4	98.3	97.8	29.9
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	9.8	68.3	93.1	90.2	24.6
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6.3	37.8	78.0	76.8	13.4
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	11.0	29.3	42.7	3.5
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	3.0	19.5	23.2	2.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	4.3	2.1	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	79.9	72.0	97.6	97.6	97.6	97.1	95.8	79.3	75.6	96.4
50-64	84.2	96.6	0.9	0.0	50.0	97.6	85.5	3.3	0.0	0.0	0.0	0.0
55-56	0.0	10.7	0.0	0.0	0.0	18.3	2.4	0.0	0.0	0.0	0.0	0.0
59-64	82.1	0.0	0.0	0.0	0.0	2.0	64.3	3.3	0.0	0.0	0.0	0.0
59-68	95.2	0.0	0.0	0.0	0.0	2.0	76.4	50.0	0.6	0.0	0.0	32.9
59-75	95.5	0.0	0.0	0.0	0.0	2.0	76.4	97.1	95.8	79.3	75.6	96.4
60-70	84.2	0.0	0.0	0.0	0.0	1.2	67.1	85.6	13.4	0.5	1.0	68.9
61-71	61.6	0.0	0.0	0.0	0.0	0.6	56.1	89.0	30.5	5.7	8.6	74.2
63-69	22.0	0.0	0.0	0.0	0.0	0.0	34.2	67.6	4.7	0.0	0.0	45.1
63-77	22.0	0.0	0.0	0.0	0.0	0.0	34.2	95.7	97.6	94.5	96.7	97.6
65-82	6.4	0.0	0.0	0.0	0.0	0.0	9.2	88.4	97.6	97.6	97.6	92.1
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	84.2	97.1	96.6	28.7
42-60	13.4	97.6	96.8	95.2	97.6	96.4	30.5	0.0	0.0	0.0	0.0	0.0
61-77	61.6	0.0	0.0	0.0	0.0	0.6	56.1	97.6	97.6	94.5	96.7	97.6

Alternative 5 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternative 5 (Existing) vs Existing Condtions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 5 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 5 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 227 Existing Condtions-Alternative 5 (Existing)

Delta Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years			0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years			63.4	69.5	58.5	65.9	0.0	0.0				
	September through November	Mean Monthly X_2 (RKm)	X_2 between 74 km and 81 km	74-81		Wet and Above Normal Water Years	0.0	0.0										0.0
	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							
Egg and Embryo	February through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years					0.0	0.0	0.0	0.0				
Larval	March through June	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years						0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years						0.0	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years						0.0	0.0	0.0	0.0			
Juvenile	May through July	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years								0.0	0.0	0.0		
		Mean Monthly X_2 (RKm)	Changes in X_2 between RKm 65 and 80	0.5 RKm		All Years								0.0	0.0	0.0		

Table 228 Existing Condtions-Alternative 5 (Existing)

Longfin Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through March	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0	0.0						
Larvae and Juvenile	April and May	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years							0.0	0.0				
				< 0 cfs		Dry and Critical Water Years							0.0	0.0				
	January through June	Mean Monthly X_2 (RKm)	X_2	< 75 RKm		All Years				0.0	0.0	0.0	0.0	0.0	0.0			
				< 75 RKm		Dry and Critical Water Years				0.0	0.0	0.0	0.0	0.0	0.0			

Table 229 Existing Condtions-Alternative 5 (Existing)

Winter-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through May	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	65.9	0.0	0.0				
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 230 Existing Condtions-Alternative 5 (Existing)

Spring-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 231 Existing Condtions-Alternative 5 (Existing)

Fall- and Late Fall-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Adult (San Joaquin River)	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							

Table 232 Existing Condtions-Alternative 5 (Existing)

Steelhead in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	October through July	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0	0.0		
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 233 Existing Condtions-Alternative 5 (Existing)

Green Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	Year-round	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0	0.0	0.0	0.0

Table 234 Existing Condtions-Alternative 5 (Existing)

White Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	April through June	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0			

Table 235 Existing Condtions-Alternative 5 (Existing)

Splittail in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Spawning and Embryo Incubation	February through May	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years					58.5	65.9	0.0	0.0				
Juvenile Rearing and Emigration	April through July	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0	0.0		

Table 236 Existing Condtions-Alternative 5 (Existing)

American Shad in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Table 237 Existing Condtions-Alternative 5 (Existing)

Striped Bass in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Existing) relative to Existing Condtions											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly X_2 (RKm)	Changes in X_2	1 RKm		All Years							0.0	0.0	0.0			

Alternative 5 (Existing) vs Existing Condtions

Sacramento River at Freeport, Monthly Temperature

Exceedance of Water Temperature Index Values and Probability of Occurring within the Water Temperature Index Ranges

Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	45.1	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.0	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	20.7	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 5 (Existing)

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
41	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
42	98.8	98.8	97.8	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
43	98.8	98.8	93.9	91.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
45	98.8	98.8	79.9	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
48	98.8	98.8	22.0	5.5	95.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
49	98.8	98.8	3.0	1.2	80.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	98.8	98.0	2.0	1.2	47.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
52	98.8	82.9	1.2	1.2	13.4	92.1	98.8	98.8	98.8	98.8	98.8	98.8
53	98.8	64.6	1.2	1.2	6.7	75.3	98.8	98.8	98.8	98.8	98.8	98.8
54	98.8	39.0	1.2	1.2	2.3	64.6	98.8	98.8	98.8	98.8	98.8	98.8
55	98.8	22.8	1.2	1.2	1.2	43.9	98.3	98.8	98.8	98.8	98.8	98.8
56	98.8	11.0	1.2	1.2	1.2	24.4	96.5	98.8	98.8	98.8	98.8	98.8
57	98.8	3.3	1.2	1.2	1.2	14.1	94.2	98.8	98.8	98.8	98.8	98.8
58	98.8	1.2	1.2	1.2	1.2	8.2	86.6	98.8	98.8	98.8	98.8	98.8
59	98.8	1.2	1.2	1.2	1.2	4.5	78.0	98.8	98.8	98.8	98.8	98.8
60	95.1	1.2	1.2	1.2	1.2	3.2	71.2	98.8	98.8	98.8	98.8	98.8
61	74.4	1.2	1.2	1.2	1.2	2.2	57.3	98.8	98.8	98.8	98.8	98.8
62	54.9	1.2	1.2	1.2	1.2	1.4	47.6	98.8	98.8	98.8	98.8	98.8
63	42.7	1.2	1.2	1.2	1.2	1.2	31.7	97.7	98.8	98.8	98.8	98.8
64	20.7	1.2	1.2	1.2	1.2	1.2	20.7	95.1	98.8	98.8	98.8	98.8
65	14.0	1.2	1.2	1.2	1.2	1.2	12.8	92.7	98.8	98.8	98.8	97.6
66	5.5	1.2	1.2	1.2	1.2	1.2	6.7	84.1	98.8	98.8	98.8	94.7
68	1.7	1.2	1.2	1.2	1.2	1.2	1.2	57.3	98.8	98.8	98.8	81.3
69	1.2	1.2	1.2	1.2	1.2	1.2	1.2	30.5	96.9	98.8	98.8	68.3
70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	89.8	98.8	98.8	47.6
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11.4	84.1	98.8	97.9	26.8
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	7.0	64.6	97.6	91.5	18.3
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.0	20.7	61.0	57.7	4.3
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	9.8	34.1	39.0	1.4
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	7.3	1.2
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
45-75	97.6	97.6	78.7	72.0	97.6	97.6	97.6	96.4	89.0	64.7	59.8	97.4
50-64	78.1	96.8	0.8	0.0	46.4	97.6	78.1	3.7	0.0	0.0	0.0	0.0
55-56	0.0	11.8	0.0	0.0	0.0	19.5	1.8	0.0	0.0	0.0	0.0	0.0
59-64	78.1	0.0	0.0	0.0	0.0	3.3	57.3	3.7	0.0	0.0	0.0	0.0
59-68	97.1	0.0	0.0	0.0	0.0	3.3	76.8	41.5	0.0	0.0	0.0	17.5
59-75	97.6	0.0	0.0	0.0	0.0	3.3	76.8	96.4	89.0	64.7	59.8	97.4
60-70	93.9	0.0	0.0	0.0	0.0	2.0	70.0	82.9	9.0	0.0	0.0	51.2
61-71	73.2	0.0	0.0	0.0	0.0	1.0	56.1	87.4	14.7	0.0	0.9	72.0
63-69	41.5	0.0	0.0	0.0	0.0	0.0	30.5	67.2	1.9	0.0	0.0	30.5
63-77	41.5	0.0	0.0	0.0	0.0	0.0	30.5	96.5	97.6	88.4	91.5	97.6
65-82	12.8	0.0	0.0	0.0	0.0	0.0	11.6	91.5	97.6	97.6	97.6	96.4
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	88.6	97.6	97.6	46.4
42-60	3.7	97.6	96.6	95.2	97.6	95.6	27.6	0.0	0.0	0.0	0.0	0.0
61-77	73.2	0.0	0.0	0.0	0.0	1.0	56.1	97.6	97.6	88.4	91.5	97.6

Alternative 5 (Existing) - Existing Condtions

Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
59-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 239 Existing Condtions-Alternative 5 (Existing)

Alternative 5 (Existing) vs Existing Condtions
Sacramento River at Rio Vista, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 240 Existing Condtions-Alternative 5 (Existing)

Alternative 5 (Existing) vs Existing Condtions
Yolo Bypass, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	30.5	18.3	28.0	22.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	69.5	69.5	81.7	72.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	69.5	81.7	72.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	67.1	63.4	69.5	58.5	65.9	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	75.8	63.6	24.2	30.3	15.2	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	36.4	75.8	69.7	84.8	0.0	0.0	0.0	0.0	0.0	0.0

Table 241 Existing Condtions-Alternative 5 (Existing)

Alternative 5 (Existing) vs Existing Condtions
Delta Outflow, Monthly Flow

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low Flows (Upper 40% of Distribution)												
-1.0 < X < 1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Long-Term and Water Year-Type Average of Sacramento River Delta Inflow Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482	15,659
Existing - Alternative 6	11,300	15,505	23,414	32,641	39,954	34,546	22,062	13,363	12,597	19,584	13,697	16,482	15,338
Difference	0	-241	-895	-1,580	-1,830	-848	0	0	0	0	0	0	-321
Percent Difference	0%	-2%	-4%	-5%	-4%	-2%	0%	0%	0%	0%	0%	0%	-2%
							Water Year-Types						
Wet													
Existing - Base	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010	22,938
Existing - Alternative 6	13,018	21,442	40,245	53,999	62,030	51,412	36,791	18,384	13,639	21,152	15,520	26,010	22,431
Difference	0	-626	-2,186	-2,543	-2,083	-1,018	0	0	0	0	0	0	-507
Percent Difference	0%	-3%	-5%	-4%	-3%	-2%	0%	0%	0%	0%	0%	0%	-2%
Above Normal													
Existing - Base	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988	17,937
Existing - Alternative 6	11,695	14,463	22,434	41,027	48,230	44,900	22,271	14,655	13,069	22,489	16,033	18,988	17,456
Difference	0	-104	-778	-2,747	-3,123	-1,354	0	0	-1	0	0	0	-481
Percent Difference	0%	-1%	-3%	-6%	-6%	-3%	0%	0%	0%	0%	0%	0%	-3%
Below Normal													
Existing - Base	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013	13,248
Existing - Alternative 6	10,841	14,630	16,145	22,633	30,897	28,166	18,090	11,885	12,782	22,590	15,188	12,014	12,995
Difference	0	-117	-339	-1,166	-1,687	-960	0	-1	0	0	0	0	-253
Percent Difference	0%	-1%	-2%	-5%	-5%	-3%	0%	0%	0%	0%	0%	0%	-2%
Dry													
Existing - Base	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994	10,852
Existing - Alternative 6	10,423	12,516	14,511	17,165	26,243	22,399	11,912	10,211	12,472	17,228	11,469	10,994	10,678
Difference	0	-51	-175	-562	-1,555	-628	0	-1	0	0	0	0	-174
Percent Difference	0%	0%	-1%	-3%	-6%	-3%	0%	0%	0%	0%	0%	0%	-2%
Critical													
Existing - Base	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772	8,039
Existing - Alternative 6	9,148	9,403	11,495	14,570	16,800	14,286	10,330	7,910	9,857	12,298	8,421	7,772	7,972
Difference	0	-7	-70	-350	-576	-125	0	0	0	0	-1	0	-67
Percent Difference	0%	0%	-1%	-2%	-3%	-1%	0%	0%	0%	0%	0%	0%	-1%

Sacramento River Delta Inflow

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	22,010	56,115	71,084	75,521	65,784	49,402	23,850	14,772	24,306	16,775	28,029
20%	13,619	18,623	35,016	61,750	67,715	57,900	35,366	14,647	13,790	23,675	16,437	24,442
30%	12,912	17,392	24,392	45,490	58,539	48,511	24,073	12,554	13,215	23,166	15,988	22,307
40%	12,254	15,897	19,607	34,106	50,381	38,401	16,613	11,092	12,891	22,072	15,543	18,189
50%	11,265	14,221	17,083	26,083	35,167	28,964	13,801	10,661	12,353	20,699	15,010	13,962
60%	10,411	12,217	14,976	20,006	27,645	22,764	12,349	10,122	11,925	19,938	14,452	12,771
70%	8,888	10,901	14,365	15,735	23,924	20,351	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,613	10,704	13,922	18,176	16,100	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,415	7,211	9,575	11,915	16,074	12,014	9,372	8,228	10,168	12,060	8,272	8,038
Long Term												
Full Simulation Period	11,300	15,746	24,309	34,221	41,784	35,394	22,062	13,364	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	22,069	42,432	56,542	64,112	52,430	36,791	18,384	13,640	21,152	15,520	26,010
Above Normal	11,695	14,566	23,212	43,774	51,354	46,254	22,271	14,655	13,070	22,489	16,033	18,988
Below Normal	10,841	14,747	16,484	23,799	32,584	29,126	18,090	11,885	12,782	22,589	15,187	12,013
Dry	10,423	12,567	14,687	17,727	27,798	23,027	11,912	10,212	12,472	17,228	11,469	10,994
Critical	9,149	9,410	11,565	14,920	17,376	14,410	10,330	7,910	9,857	12,298	8,422	7,772

Existing - Alternative 6

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	14,603	21,484	52,453	67,804	75,312	64,986	49,402	23,850	14,772	24,306	16,775	28,030
20%	13,619	18,502	32,316	56,215	65,001	56,368	35,366	14,647	13,791	23,675	16,437	24,446
30%	12,912	17,334	23,252	42,165	55,865	47,029	24,073	12,554	13,215	23,166	15,989	22,307
40%	12,254	15,835	19,192	30,893	45,967	35,820	16,613	11,092	12,892	22,073	15,543	18,188
50%	11,265	14,175	16,600	24,743	31,640	28,307	13,801	10,661	12,351	20,700	15,010	13,962
60%	10,411	12,206	14,826	19,477	26,106	22,397	12,349	10,117	11,925	19,940	14,452	12,772
70%	8,886	10,894	14,270	15,523	22,746	20,118	11,386	9,739	11,469	18,857	12,942	10,172
80%	7,935	8,607	10,647	13,864	17,889	15,910	10,880	9,315	11,081	14,287	9,192	9,276
90%	6,414	7,207	9,569	11,886	15,859	11,991	9,372	8,227	10,168	12,056	8,273	8,038
Long Term												
Full Simulation Period	11,300	15,505	23,414	32,641	39,954	34,546	22,062	13,363	12,597	19,584	13,697	16,482
Water Year Types												
Wet	13,018	21,442	40,245	53,999	62,030	51,412	36,791	18,384	13,639	21,152	15,520	26,010
Above Normal	11,695	14,463	22,434	41,027	48,230	44,900	22,271	14,655	13,069	22,489	16,033	18,988
Below Normal	10,841	14,630	16,145	22,633	30,897	28,166	18,090	11,885	12,782	22,590	15,188	12,014
Dry	10,423	12,516	14,511	17,165	26,243	22,399	11,912	10,211	12,472	17,228	11,469	10,994
Critical	9,148	9,403	11,495	14,570	16,800	14,286	10,330	7,910	9,857	12,298	8,421	7,772

Existing - Alternative 6 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-526	-3,662	-3,280	-209	-798	0	0	0	0	0	0
20%	0	-121	-2,700	-5,535	-2,714	-1,533	0	0	1	0	0	4
30%	0	-57	-1,140	-3,326	-2,675	-1,481	0	0	0	0	1	0
40%	0	-62	-414	-3,213	-4,414	-2,581	0	0	1	1	0	-1
50%	0	-45	-483	-1,340	-3,527	-658	0	0	-1	0	0	0
60%	0	-11	-149	-529	-1,539	-366	0	-5	0	2	0	0
70%	-1	-7	-95	-212	-1,179	-233	0	0	0	0	0	0
80%	0	-6	-56	-58	-287	-189	0	0	0	1	0	0
90%	-1	-4	-7	-29	-215	-23	0	-1	0	-4	0	0
Long Term												
Full Simulation Period	0	-241	-895	-1,580	-1,830	-848	0	0	0	0	0	0
Water Year Types												
Wet	0	-626	-2,186	-2,543	-2,083	-1,018	0	0	0	0	0	0
Above Normal	0	-104	-778	-2,747	-3,123	-1,354	0	0	-1	0	0	0
Below Normal	0	-117	-339	-1,166	-1,687	-960	0	-1	0	0	0	1
Dry	0	-51	-175	-562	-1,555	-628	0	-1	0	0	0	0
Critical	0	-7	-70	-350	-576	-125	0	0	0	0	-1	0

Long-Term and Water Year-Type Average of Total CVP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Existing - Alternative 6	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046	2,310
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Existing - Alternative 6	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288	2,388
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Existing - Alternative 6	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355	2,404
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Existing - Alternative 6	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879	2,321
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910	2,283
Existing - Alternative 6	1,639	783	406	238	254	339	5,399	5,578	7,778	7,583	5,755	1,910	2,283
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Existing - Alternative 6	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649	2,072
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,634	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,398	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 6

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,875	950	506	303	270	646	6,661	6,327	8,826	8,986	6,821	2,514
20%	1,791	902	457	252	262	436	6,057	6,182	8,524	8,506	6,466	2,380
30%	1,670	825	415	242	253	362	5,755	6,062	8,346	8,239	6,271	2,266
40%	1,605	764	399	236	243	254	5,461	5,909	8,191	8,069	6,139	2,204
50%	1,488	711	379	219	239	243	5,255	5,729	8,016	7,974	6,015	2,112
60%	1,404	638	353	215	238	225	4,910	5,521	7,869	7,870	5,949	1,996
70%	1,351	624	339	213	233	214	4,748	5,297	7,762	7,633	5,741	1,840
80%	1,239	572	311	209	223	212	4,333	5,078	7,482	7,356	5,573	1,735
90%	1,142	543	299	200	206	205	3,074	4,689	7,086	7,108	5,323	1,572
Long Term												
Full Simulation Period	1,506	726	389	234	244	337	5,113	5,599	7,987	7,932	5,983	2,046
Water Year Types												
Wet	1,429	662	371	227	244	288	4,682	5,765	8,463	8,473	6,484	2,288
Above Normal	1,514	755	372	241	246	248	5,081	5,804	8,436	8,340	6,266	2,355
Below Normal	1,527	728	407	242	236	344	5,193	5,744	7,967	7,969	6,039	1,879
Dry	1,639	783	406	238	254	339	5,399	5,578	7,778	7,583	5,755	1,910
Critical	1,452	754	396	225	239	517	5,551	4,869	6,853	6,811	4,881	1,649

Existing - Alternative 6 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total CVP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Existing - Alternative 6	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413	2,214
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Existing - Alternative 6	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879	2,659
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Existing - Alternative 6	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647	2,418
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Existing - Alternative 6	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373	2,141
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Existing - Alternative 6	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129	1,932
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Existing - Alternative 6	2,437	1,409	938	935	1,297	1,530	1,799	2,517	3,470	3,601	3,225	2,643	1,561
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,431	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,081	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,143	5,444	4,674	3,353
70%	2,541	1,475	989	1,037	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,529	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 6

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,146	1,963	1,635	2,053	2,691	2,610	3,618	5,163	7,758	8,677	7,137	4,150
20%	2,897	1,760	1,366	1,613	2,139	2,432	3,098	4,370	6,449	7,106	5,875	3,750
30%	2,806	1,682	1,266	1,459	1,962	2,286	2,896	4,123	6,046	6,611	5,562	3,619
40%	2,755	1,638	1,209	1,371	1,849	2,177	2,733	3,975	5,804	6,294	5,232	3,541
50%	2,710	1,604	1,162	1,288	1,756	2,076	2,580	3,826	5,555	6,004	5,080	3,470
60%	2,636	1,548	1,084	1,151	1,582	2,023	2,419	3,579	5,142	5,444	4,674	3,353
70%	2,541	1,475	989	1,038	1,429	1,845	2,206	3,268	4,641	4,993	4,281	3,203
80%	2,408	1,363	849	764	1,068	1,596	1,942	2,893	4,010	4,174	3,822	2,995
90%	2,252	1,229	699	587	870	1,506	1,727	2,417	3,277	3,388	3,199	2,749
Long Term												
Full Simulation Period	2,670	1,585	1,151	1,274	1,718	2,083	2,592	3,755	5,447	5,876	5,010	3,413
Water Year Types												
Wet	2,755	1,649	1,228	1,396	1,873	2,512	3,205	4,634	6,886	7,631	6,265	3,879
Above Normal	2,740	1,643	1,230	1,404	1,877	2,297	2,904	4,175	6,129	6,509	5,394	3,647
Below Normal	2,645	1,562	1,118	1,218	1,646	1,988	2,471	3,625	5,220	5,601	4,904	3,373
Dry	2,688	1,598	1,166	1,297	1,747	1,770	2,122	3,136	4,412	4,658	4,213	3,129
Critical	2,437	1,409	938	935	1,297	1,530	1,799	2,517	3,470	3,601	3,225	2,643

Existing - Alternative 6 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	-1	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries North of the Delta Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Existing - Alternative 6	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874	1,205
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Existing - Alternative 6	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067	1,224
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Existing - Alternative 6	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185	1,266
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Existing - Alternative 6	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805	1,242
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Existing - Alternative 6	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938	1,209
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Existing - Alternative 6	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175	1,047
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 6

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,189	2,095	1,377	634	20	199	3,028	3,131	3,658	3,564	2,851	2,296
20%	2,083	1,972	1,311	545	20	129	2,766	3,040	3,510	3,485	2,800	2,233
30%	1,852	1,922	1,250	477	20	46	2,505	2,979	3,442	3,371	2,692	2,181
40%	1,621	1,877	1,169	452	19	45	2,333	2,935	3,374	3,328	2,615	2,122
50%	1,432	1,754	1,079	398	15	45	2,110	2,816	3,323	3,263	2,577	2,061
60%	1,330	1,572	966	310	12	45	1,988	2,686	3,260	3,194	2,542	2,027
70%	1,282	1,409	822	167	11	40	1,822	2,594	3,160	3,138	2,504	1,909
80%	987	797	532	66	4	34	1,421	2,385	3,102	3,076	2,454	1,555
90%	442	188	85	4	3	26	1,141	1,928	2,974	2,941	2,194	1,007
Long Term												
Full Simulation Period	1,449	1,463	935	345	14	92	2,122	2,685	3,217	3,169	2,515	1,874
Water Year Types												
Wet	1,349	1,476	900	256	19	65	1,890	2,778	3,378	3,342	2,671	2,067
Above Normal	1,568	1,578	982	389	16	50	2,034	2,789	3,376	3,298	2,613	2,185
Below Normal	1,465	1,428	971	390	12	73	2,227	2,850	3,348	3,292	2,628	1,805
Dry	1,586	1,495	979	379	12	111	2,179	2,641	3,158	3,039	2,427	1,938
Critical	1,330	1,326	851	373	11	191	2,466	2,211	2,613	2,676	2,046	1,175

Existing - Alternative 6 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Total SWP Deliveries South of the Delta Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Existing - Alternative 6	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893	2,486
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
							Water Year-Types						
Wet													
Existing - Base	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Existing - Alternative 6	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951	3,194
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal													
Existing - Base	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Existing - Alternative 6	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555	2,797
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal													
Existing - Base	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272	2,458
Existing - Alternative 6	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272	2,458
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry													
Existing - Base	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214	2,016
Existing - Alternative 6	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,947	4,911	4,214	2,016
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical													
Existing - Base	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Existing - Alternative 6	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396	1,369
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries South of the Delta

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	592	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,035	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,493	6,078	6,448	5,390
60%	4,261	3,432	3,355	142	255	456	1,993	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,205	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,942	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,948	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 6

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	6,129	4,776	5,541	1,795	2,061	2,896	4,442	6,100	7,671	7,647	7,791	6,656
20%	5,093	4,372	4,331	593	1,846	2,603	3,679	5,031	6,322	6,528	6,826	5,798
30%	4,839	4,258	4,034	298	1,268	2,451	3,368	4,703	5,924	6,380	6,690	5,674
40%	4,678	4,177	3,884	213	393	1,168	3,151	4,543	5,802	6,169	6,549	5,542
50%	4,500	3,770	3,634	162	279	571	2,400	3,888	5,492	6,078	6,449	5,390
60%	4,261	3,432	3,355	142	255	456	1,994	3,117	5,202	5,922	6,287	5,176
70%	3,403	2,780	2,818	114	214	382	1,694	2,408	4,265	5,525	5,649	4,826
80%	2,203	1,907	2,101	92	174	273	473	2,020	3,349	4,041	3,743	3,165
90%	1,545	1,239	1,379	80	110	207	380	1,631	2,705	3,286	3,008	2,186
Long Term												
Full Simulation Period	4,044	3,416	3,459	465	782	1,284	2,414	3,688	5,146	5,640	5,790	4,893
Water Year Types												
Wet	4,429	3,815	3,773	1,079	1,629	2,451	3,750	5,270	6,698	6,801	7,098	5,951
Above Normal	4,055	3,517	3,542	399	1,077	1,692	3,180	4,482	5,926	6,196	6,553	5,555
Below Normal	4,050	3,353	3,444	191	336	863	2,305	3,477	5,138	5,943	6,158	5,272
Dry	3,928	3,199	3,448	125	192	390	1,342	2,452	4,065	4,947	4,911	4,214
Critical	3,377	2,862	2,758	95	143	230	451	1,543	2,584	3,159	2,952	2,396

Existing - Alternative 6 Minus Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	1	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	-2	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Long-Term and Water Year-Type Average of Fremont Weir Spill to Yolo Bypass Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0	1,933
Existing - Alternative 6	114	507	3,551	10,090	15,081	7,799	1,024	20	0	0	0	0	2,261
Difference	0	250	917	1,606	1,876	864	0	0	0	0	0	0	328
Percent Difference	0%	97%	35%	19%	14%	12%	0%	0%	0%	0%	0%	0%	17%
							Water Year-Types						
Wet													
Existing - Base	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0	5,472
Existing - Alternative 6	374	1,497	9,932	28,049	38,497	19,557	3,244	64	0	0	0	0	5,993
Difference	0	653	2,255	2,602	2,129	1,051	0	0	0	0	0	0	521
Percent Difference	0%	77%	29%	10%	6%	6%	0%	0%	0%	0%	0%	0%	10%
Above Normal													
Existing - Base	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0	1,470
Existing - Alternative 6	0	103	2,792	7,345	13,485	9,196	33	0	0	0	0	0	1,961
Difference	0	103	784	2,795	3,215	1,373	0	0	0	0	0	0	491
Percent Difference	0%	0%	39%	61%	31%	18%	0%	0%	0%	0%	0%	0%	33%
Below Normal													
Existing - Base	0	0	0	291	2,453	501	143	0	0	0	0	0	196
Existing - Alternative 6	0	117	339	1,461	4,209	1,472	143	0	0	0	0	0	454
Difference	0	117	339	1,171	1,756	972	0	0	0	0	0	0	258
Percent Difference	0%	0%	0%	403%	72%	194%	0%	0%	0%	0%	0%	0%	132%
Dry													
Existing - Base	0	0	0	0	537	224	0	0	0	0	0	0	44
Existing - Alternative 6	0	51	176	562	2,117	856	0	0	0	0	0	0	219
Difference	0	51	176	562	1,580	632	0	0	0	0	0	0	176
Percent Difference	0%	0%	0%	222716%	294%	282%	0%	0%	0%	0%	0%	0%	403%
Critical													
Existing - Base	0	0	0	0	1	0	0	0	0	0	0	0	0
Existing - Alternative 6	0	8	70	350	577	125	0	0	0	0	0	0	67
Difference	0	8	70	350	576	125	0	0	0	0	0	0	67
Percent Difference	0%	0%	0%	0%	74286%	0%	0%	0%	0%	0%	0%	0%	149387%

Fremont Weir Spill to Yolo Bypass

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	7,950	28,958	47,428	19,929	23	0	0	0	0	0
20%	0	0	17	7,664	20,668	5,676	0	0	0	0	0	0
30%	0	0	0	2,091	7,247	1,385	0	0	0	0	0	0
40%	0	0	0	0	1,768	0	0	0	0	0	0	0
50%	0	0	0	0	23	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	257	2,635	8,485	13,204	6,934	1,024	20	0	0	0	0
Water Year Types												
Wet	374	844	7,678	25,448	36,369	18,505	3,244	64	0	0	0	0
Above Normal	0	0	2,008	4,550	10,271	7,823	33	0	0	0	0	0
Below Normal	0	0	0	291	2,453	501	143	0	0	0	0	0
Dry	0	0	0	0	537	224	0	0	0	0	0	0
Critical	0	0	0	0	1	0	0	0	0	0	0	0

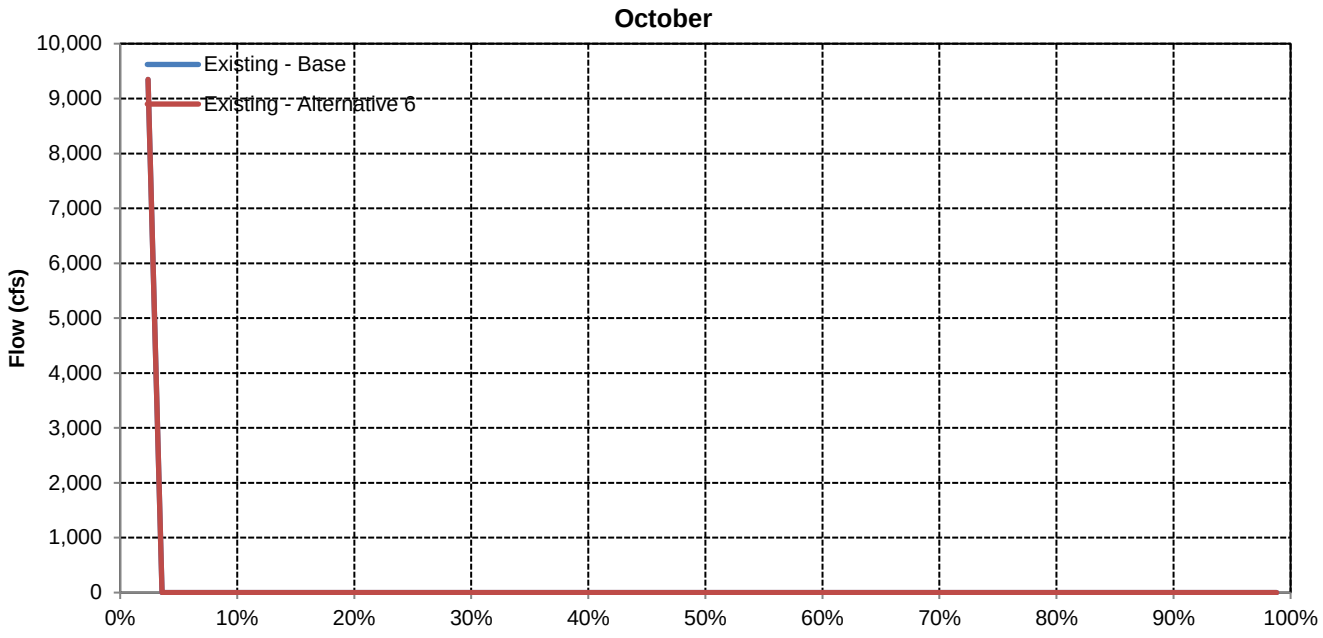
Existing - Alternative 6

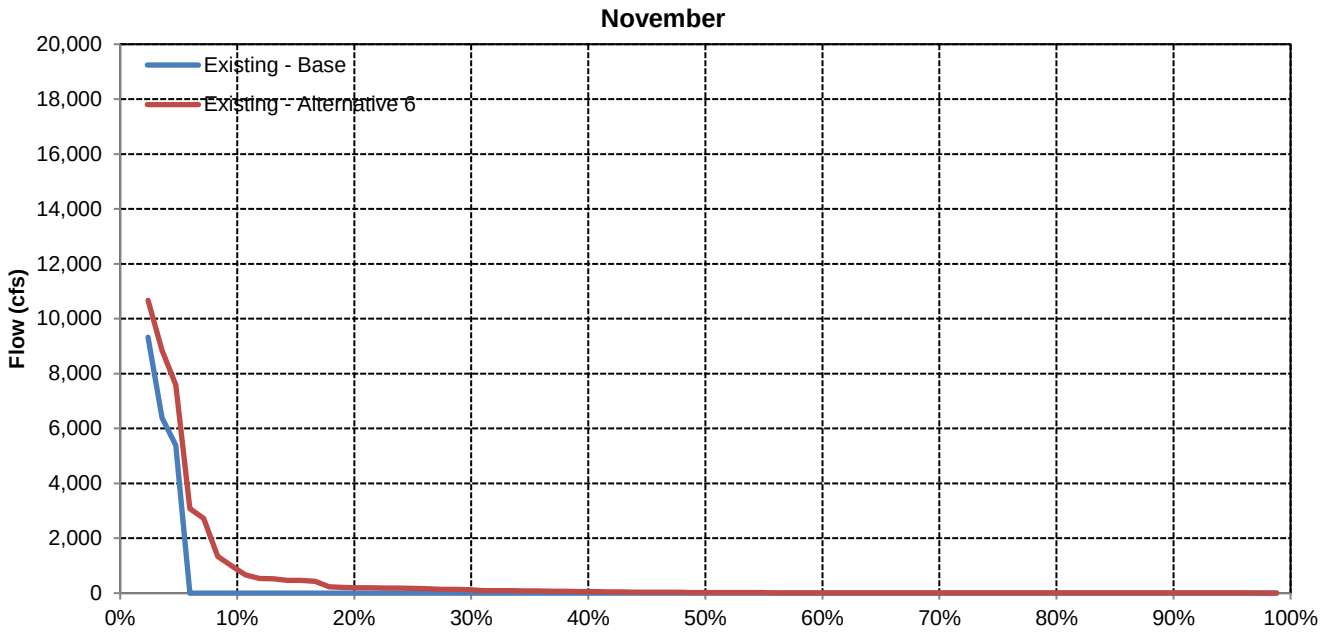
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	624	12,110	31,351	49,960	20,134	23	0	0	0	0	0
20%	0	195	3,340	12,547	22,976	7,102	0	0	0	0	0	0
30%	0	99	1,016	6,219	12,030	4,607	0	0	0	0	0	0
40%	0	58	518	3,145	6,235	2,401	0	0	0	0	0	0
50%	0	22	311	1,294	4,069	684	0	0	0	0	0	0
60%	0	9	83	529	1,759	410	0	0	0	0	0	0
70%	0	8	35	213	779	212	0	0	0	0	0	0
80%	0	6	12	76	297	80	0	0	0	0	0	0
90%	0	6	7	31	114	9	0	0	0	0	0	0
Long Term												
Full Simulation Period	114	507	3,551	10,090	15,081	7,799	1,024	20	0	0	0	0
Water Year Types												
Wet	374	1,497	9,932	28,049	38,497	19,557	3,244	64	0	0	0	0
Above Normal	0	103	2,792	7,345	13,485	9,196	33	0	0	0	0	0
Below Normal	0	117	339	1,461	4,209	1,472	143	0	0	0	0	0
Dry	0	51	176	562	2,117	856	0	0	0	0	0	0
Critical	0	8	70	350	577	125	0	0	0	0	0	0

Existing - Alternative 6 Minus Existing - Base

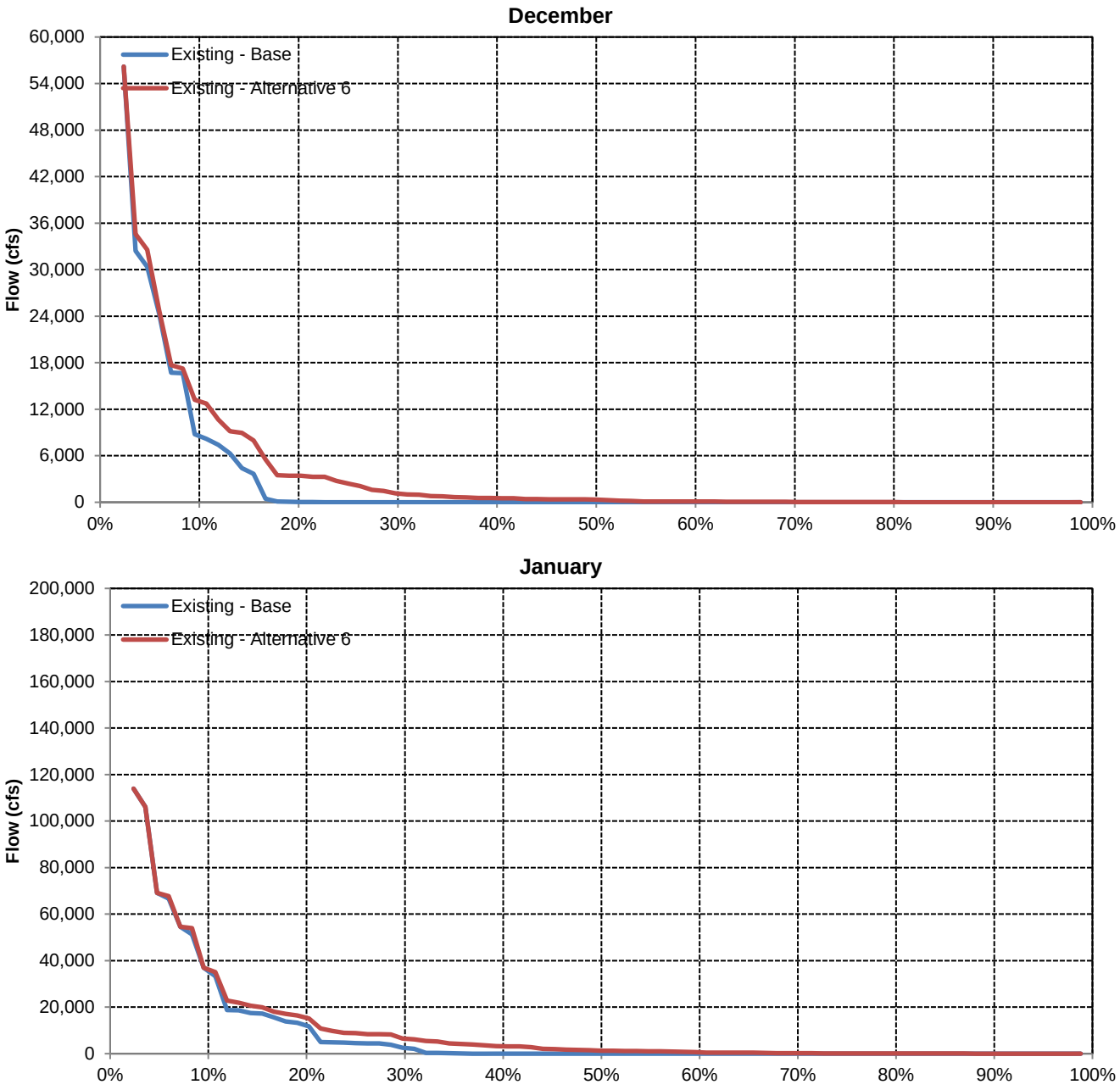
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	624	4,160	2,393	2,531	205	0	0	0	0	0	0
20%	0	195	3,323	4,882	2,308	1,426	0	0	0	0	0	0
30%	0	99	1,016	4,128	4,784	3,223	0	0	0	0	0	0
40%	0	58	518	3,145	4,467	2,401	0	0	0	0	0	0
50%	0	22	311	1,294	4,046	684	0	0	0	0	0	0
60%	0	9	83	529	1,759	410	0	0	0	0	0	0
70%	0	8	35	213	779	212	0	0	0	0	0	0
80%	0	6	12	76	297	80	0	0	0	0	0	0
90%	0	6	7	31	114	9	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	250	917	1,606	1,876	864	0	0	0	0	0	0
Water Year Types												
Wet	0	653	2,255	2,602	2,129	1,051	0	0	0	0	0	0
Above Normal	0	103	784	2,795	3,215	1,373	0	0	0	0	0	0
Below Normal	0	117	339	1,171	1,756	972	0	0	0	0	0	0
Dry	0	51	176	562	1,580	632	0	0	0	0	0	0
Critical	0	8	70	350	576	125	0	0	0	0	0	0

Fremont Weir Spill to Yolo Bypass

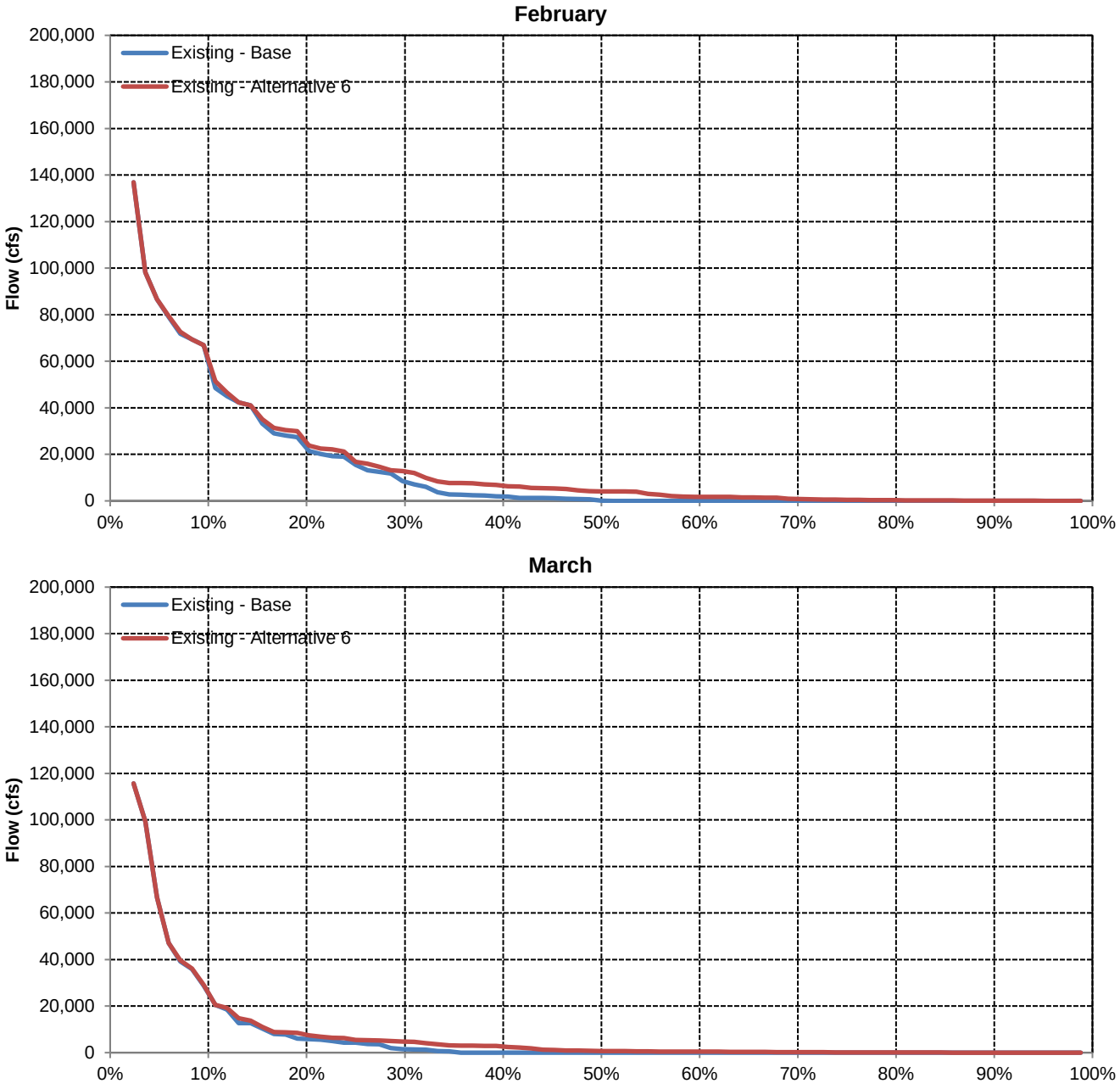




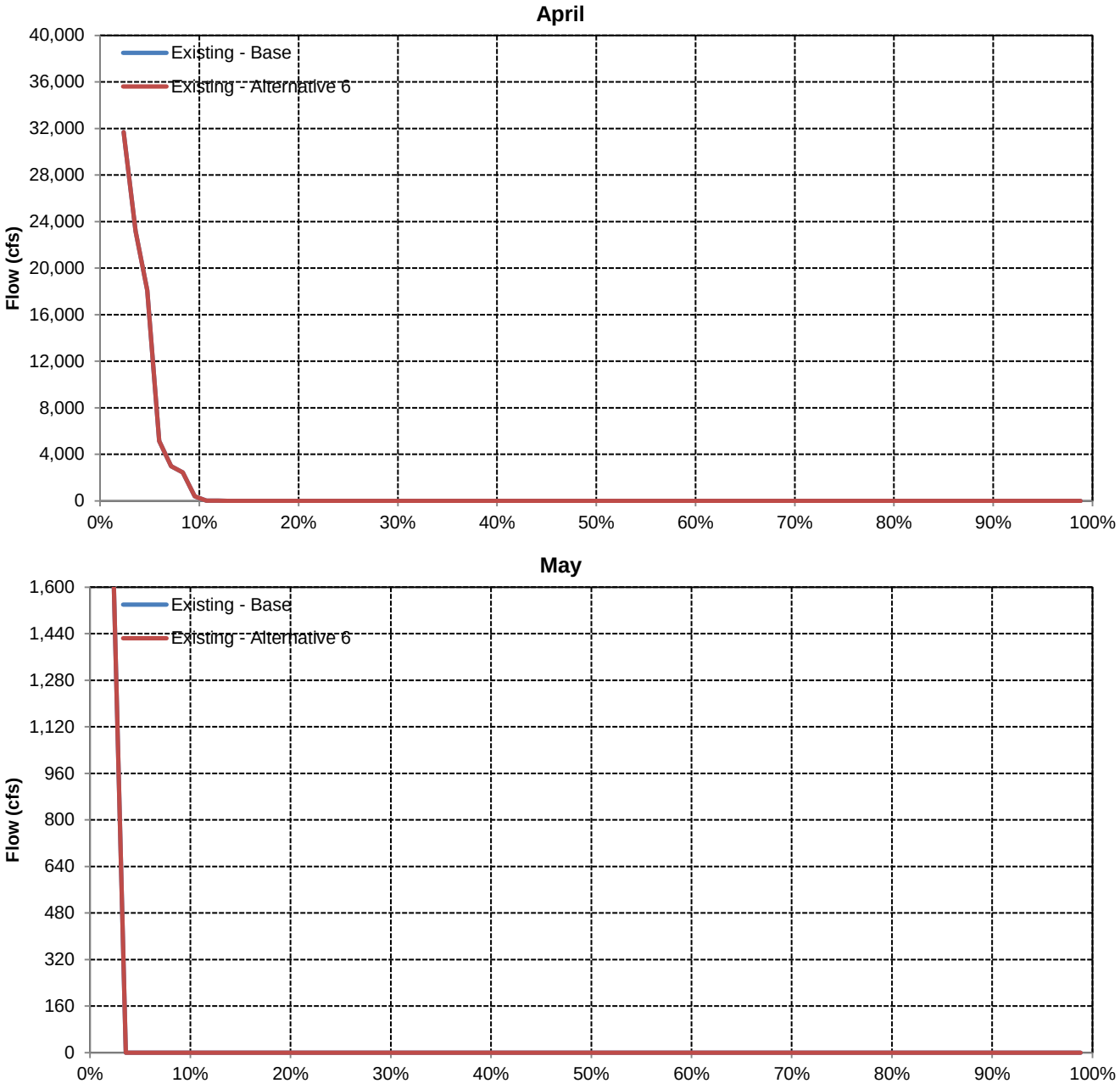
Fremont Weir Spill to Yolo Bypass



Fremont Weir Spill to Yolo Bypass

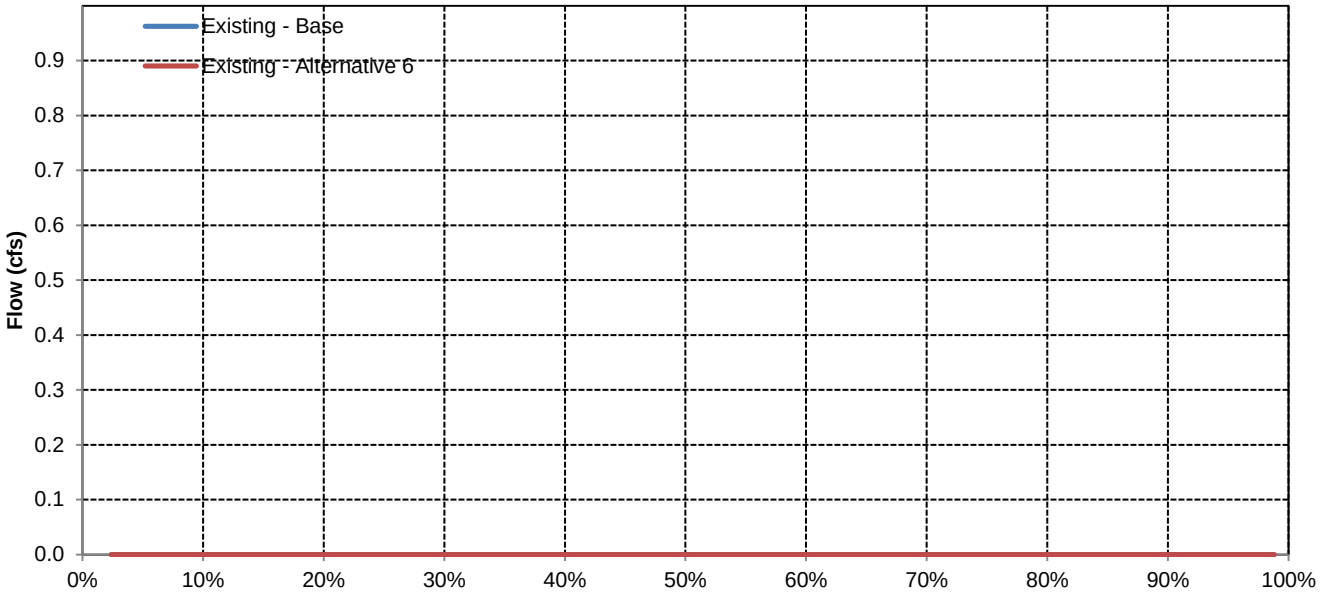


Fremont Weir Spill to Yolo Bypass

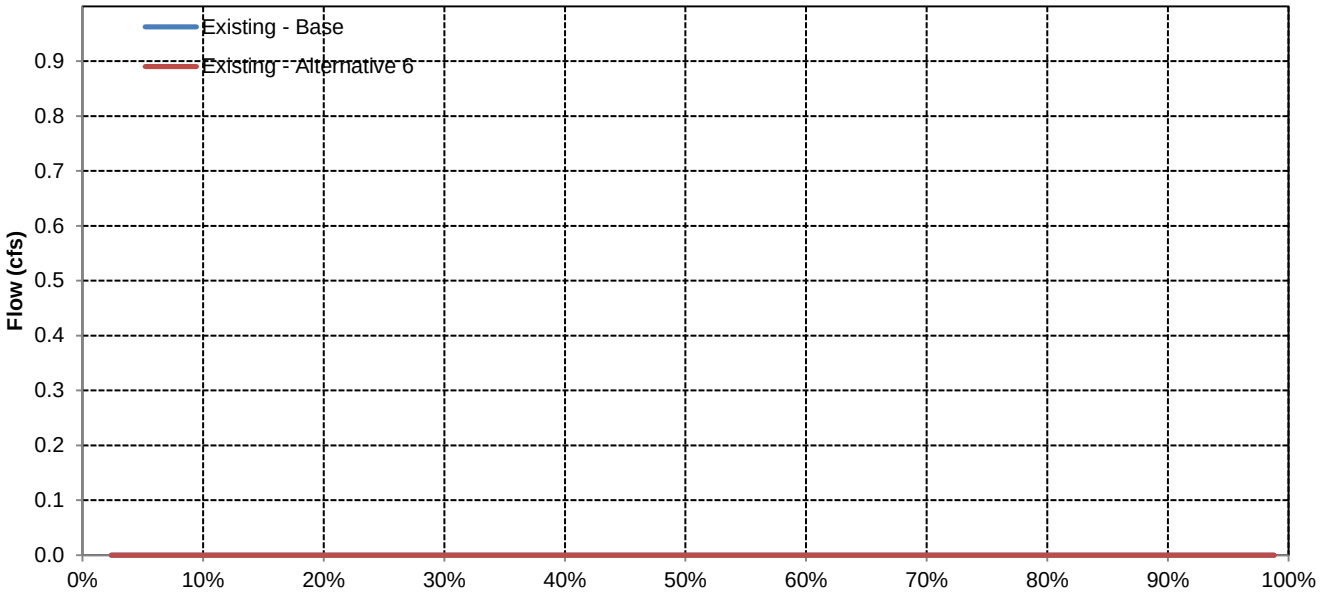


Fremont Weir Spill to Yolo Bypass

June

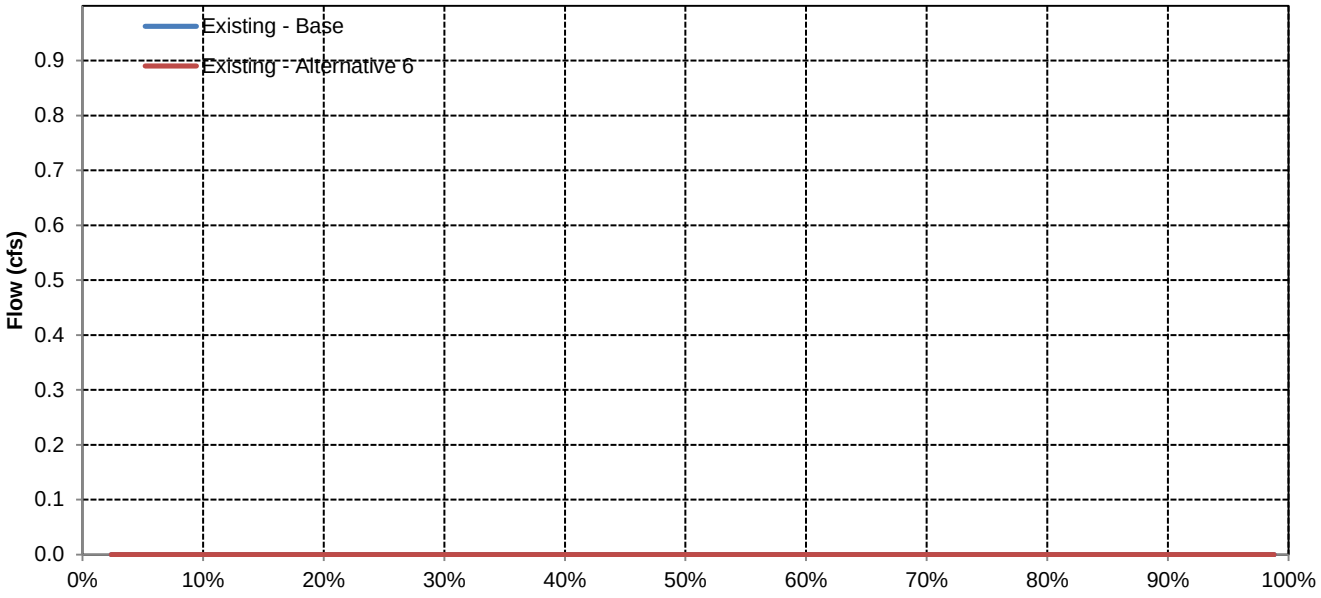


July

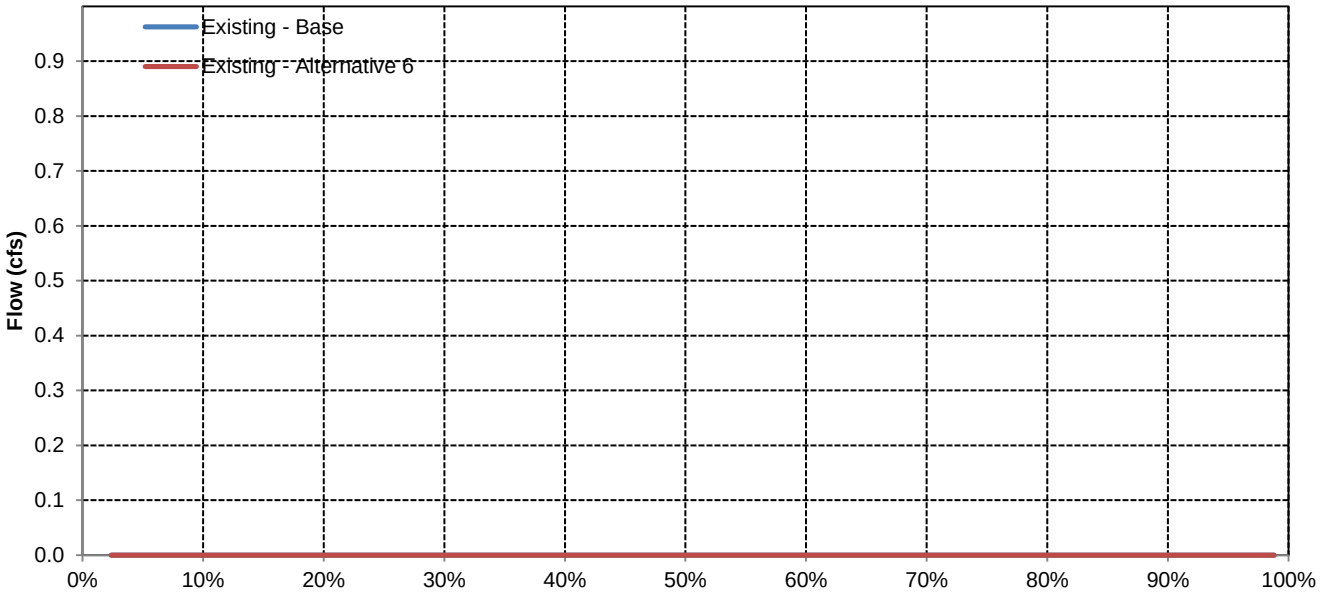


Fremont Weir Spill to Yolo Bypass

August



September



Long-Term and Water Year-Type Average of Sacramento River below Fremont Weir Under Existing - Base and Existing - Alternative 6

	Average Flow (cfs)												
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**Total (TAF)**
							Long-Term						
Full Simulation Period													
Existing - Base	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753	13,226
Existing - Alternative 6	9,484	12,261	18,810	26,928	33,004	29,203	18,487	11,524	11,174	16,563	12,346	14,753	12,898
Difference	0	-250	-917	-1,606	-1,876	-864	0	0	0	0	0	0	-328
Percent Difference	0%	-2%	-5%	-6%	-5%	-3%	0%	0%	0%	0%	0%	0%	-2%
							Water Year-Types						
Wet													
Existing - Base	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821	19,273
Existing - Alternative 6	10,891	16,528	32,341	44,786	52,031	43,766	30,280	15,515	11,984	17,719	13,701	22,821	18,751
Difference	0	-654	-2,254	-2,602	-2,128	-1,051	0	0	0	0	0	0	-521
Percent Difference	0%	-4%	-7%	-5%	-4%	-2%	0%	0%	0%	0%	0%	0%	-3%
Above Normal													
Existing - Base	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430	15,325
Existing - Alternative 6	9,877	11,954	18,493	33,529	39,652	38,635	19,128	12,828	11,813	18,508	14,754	17,429	14,834
Difference	0	-103	-784	-2,795	-3,215	-1,373	0	0	-1	0	0	0	-491
Percent Difference	0%	-1%	-4%	-8%	-8%	-3%	0%	0%	0%	0%	0%	0%	-3%
Below Normal													
Existing - Base	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737	11,081
Existing - Alternative 6	9,114	11,582	12,562	18,568	24,417	22,758	15,308	10,496	11,506	18,684	13,981	10,737	10,823
Difference	0	-117	-339	-1,171	-1,756	-972	0	-1	0	0	0	0	-258
Percent Difference	0%	-1%	-3%	-6%	-7%	-4%	0%	0%	0%	0%	0%	0%	-2%
Dry													
Existing - Base	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040	9,128
Existing - Alternative 6	8,797	10,233	11,706	13,833	21,300	18,679	9,957	8,685	10,655	14,789	10,143	10,040	8,952
Difference	0	-51	-175	-562	-1,580	-632	0	-1	0	0	0	0	-176
Percent Difference	0%	0%	-1%	-4%	-7%	-3%	0%	0%	0%	0%	0%	0%	-2%
Critical													
Existing - Base	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241	7,035
Existing - Alternative 6	7,603	7,342	9,262	12,426	14,486	12,591	9,151	7,145	9,068	11,570	7,735	7,241	6,969
Difference	0	-7	-70	-350	-576	-125	0	0	0	0	-1	0	-67
Percent Difference	0%	0%	-1%	-3%	-4%	-1%	0%	0%	0%	0%	0%	0%	-1%

Sacramento River below Fremont Weir

Existing - Base

	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,867	45,100	57,729	61,959	57,591	41,031	20,423	13,312	19,786	15,641	24,263
20%	11,568	15,291	30,157	49,978	58,550	49,208	29,852	12,476	12,632	19,450	14,918	21,584
30%	10,868	14,177	20,670	38,268	45,964	41,694	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,419	16,827	30,451	40,042	32,187	14,333	9,587	11,482	18,481	13,746	16,796
50%	9,258	11,470	14,375	20,927	29,701	24,238	11,811	9,148	10,870	17,699	13,483	12,593
60%	8,339	10,242	12,138	16,320	24,021	20,650	10,617	8,809	10,372	17,239	13,030	11,383
70%	7,401	8,651	11,421	13,695	18,359	16,099	9,968	8,553	10,029	15,866	11,157	9,527
80%	6,330	6,998	8,557	11,396	14,745	13,147	9,106	7,912	9,548	12,798	8,367	8,339
90%	5,547	6,108	7,167	10,140	12,940	10,022	8,064	7,372	8,384	10,409	7,531	7,435
Long Term												
Full Simulation Period	9,484	12,510	19,726	28,534	34,880	30,067	18,486	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	17,182	34,594	47,388	54,159	44,817	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	12,058	19,277	36,324	42,867	40,008	19,128	12,828	11,814	18,508	14,754	17,430
Below Normal	9,114	11,699	12,901	19,738	26,173	23,730	15,307	10,497	11,507	18,684	13,981	10,737
Dry	8,797	10,284	11,881	14,395	22,880	19,311	9,957	8,686	10,655	14,790	10,143	10,040
Critical	7,603	7,349	9,332	12,776	15,062	12,715	9,151	7,145	9,068	11,571	7,736	7,241

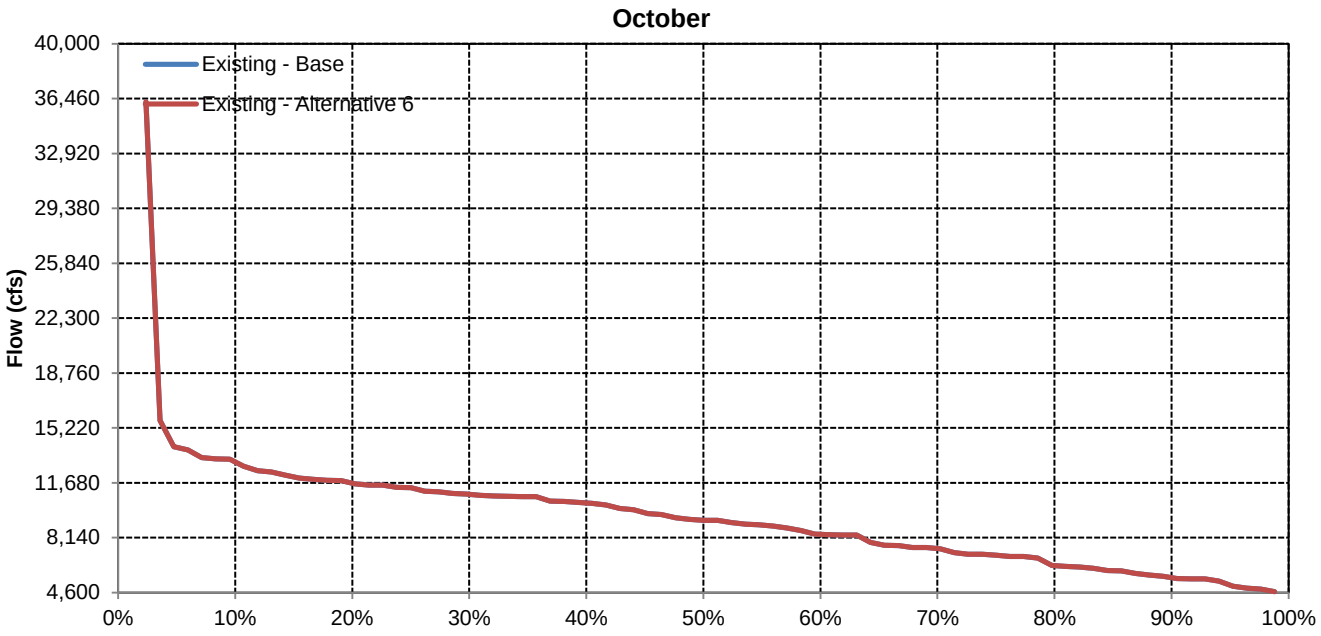
Existing - Alternative 6

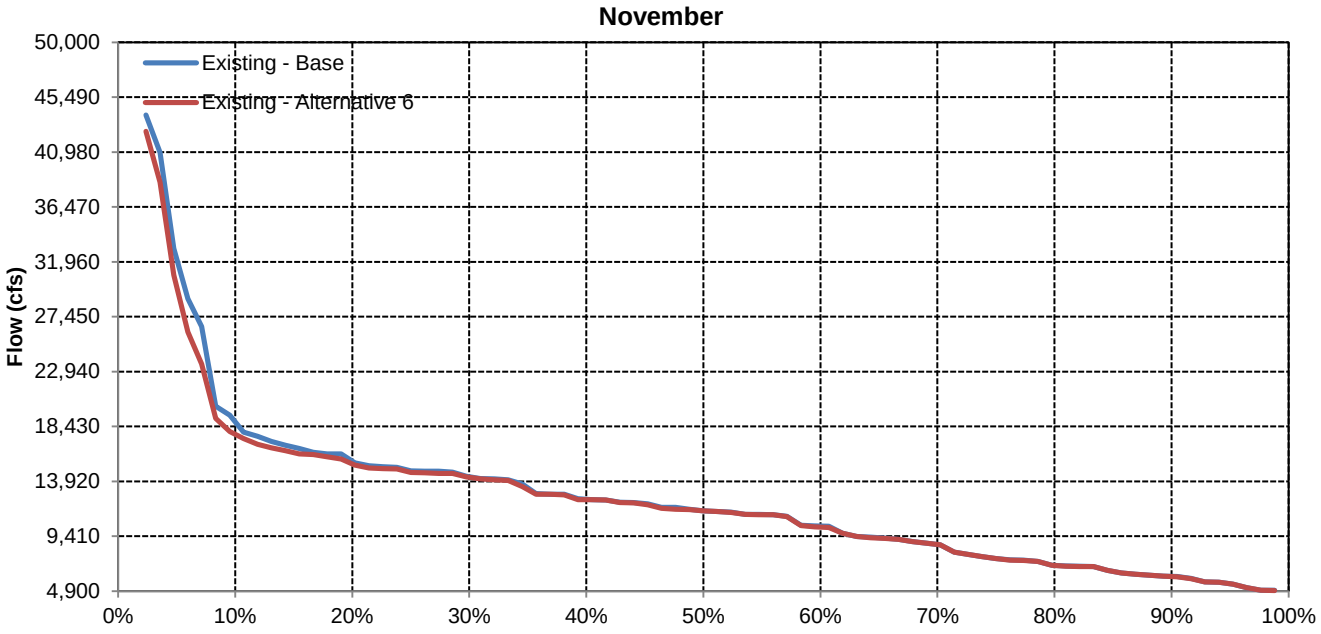
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	12,667	17,296	41,657	55,206	61,959	56,675	41,031	20,423	13,301	19,786	15,640	24,263
20%	11,568	15,109	26,897	47,538	55,811	46,916	29,854	12,476	12,632	19,450	14,919	21,584
30%	10,868	14,136	19,689	34,506	43,140	40,469	19,097	10,802	12,207	18,980	14,204	20,190
40%	10,328	12,400	16,441	27,178	35,114	30,619	14,333	9,587	11,482	18,481	13,746	16,795
50%	9,258	11,461	14,106	19,916	26,573	23,837	11,812	9,148	10,871	17,699	13,483	12,593
60%	8,339	10,134	12,051	15,732	22,334	20,073	10,617	8,809	10,372	17,239	13,027	11,384
70%	7,400	8,644	11,375	13,552	17,812	16,006	9,968	8,552	10,029	15,867	11,157	9,527
80%	6,330	6,992	8,544	11,338	14,522	13,026	9,106	7,912	9,548	12,798	8,366	8,339
90%	5,547	6,104	7,160	10,122	12,833	10,007	8,063	7,372	8,384	10,409	7,530	7,435
Long Term												
Full Simulation Period	9,484	12,261	18,810	26,928	33,004	29,203	18,487	11,524	11,174	16,563	12,346	14,753
Water Year Types												
Wet	10,891	16,528	32,341	44,786	52,031	43,766	30,280	15,515	11,984	17,719	13,701	22,821
Above Normal	9,877	11,954	18,493	33,529	39,652	38,635	19,128	12,828	11,813	18,508	14,754	17,429
Below Normal	9,114	11,582	12,562	18,568	24,417	22,758	15,308	10,496	11,506	18,684	13,981	10,737
Dry	8,797	10,233	11,706	13,833	21,300	18,679	9,957	8,685	10,655	14,789	10,143	10,040
Critical	7,603	7,342	9,262	12,426	14,486	12,591	9,151	7,145	9,068	11,570	7,735	7,241

Existing - Alternative 6 Minus Existing - Base

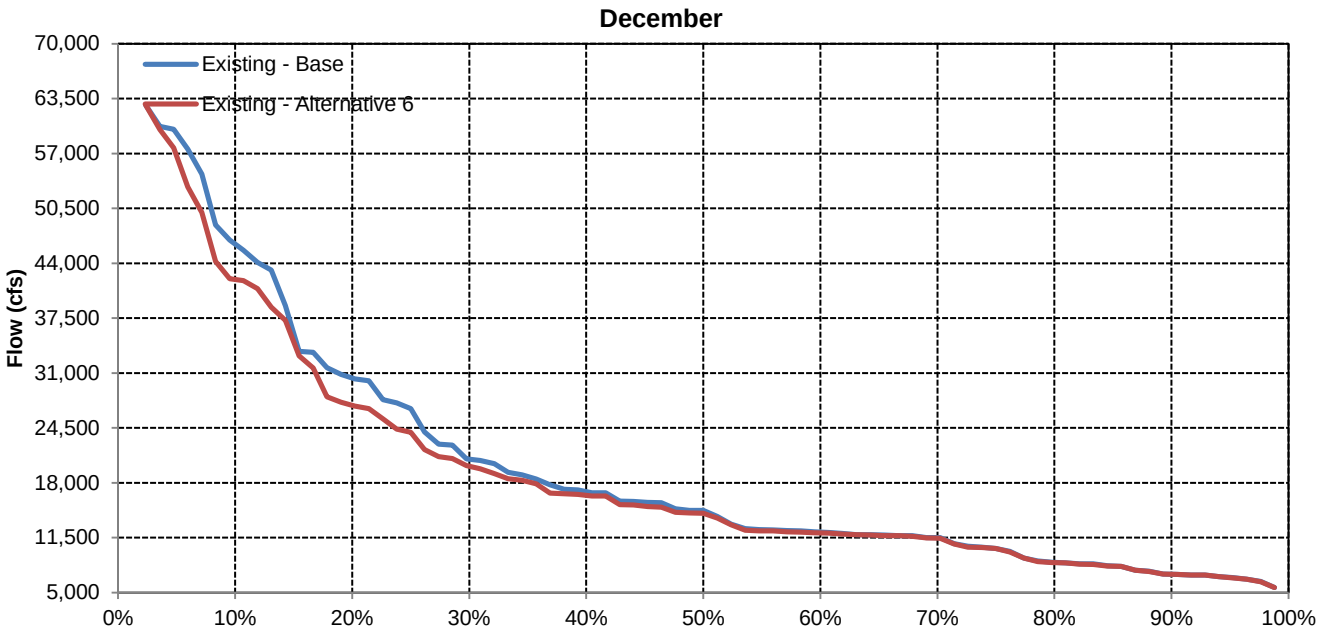
	Average Monthly Flow (cfs)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	-571	-3,443	-2,523	0	-916	0	0	-11	0	0	0
20%	0	-182	-3,261	-2,440	-2,740	-2,292	2	0	0	0	1	0
30%	0	-41	-981	-3,762	-2,824	-1,224	0	0	-1	0	0	0
40%	0	-19	-385	-3,274	-4,929	-1,568	0	0	0	0	0	0
50%	0	-9	-269	-1,011	-3,129	-401	1	0	0	0	0	0
60%	0	-109	-87	-588	-1,687	-577	0	0	0	0	-3	0
70%	-1	-7	-46	-143	-547	-93	0	0	0	1	0	0
80%	0	-6	-13	-58	-224	-121	0	0	0	0	0	0
90%	0	-4	-7	-18	-107	-15	-1	0	0	0	0	0
Long Term												
Full Simulation Period	0	-250	-917	-1,606	-1,876	-864	0	0	0	0	0	0
Water Year Types												
Wet	0	-654	-2,254	-2,602	-2,128	-1,051	0	0	0	0	0	0
Above Normal	0	-103	-784	-2,795	-3,215	-1,373	0	0	-1	0	0	0
Below Normal	0	-117	-339	-1,171	-1,756	-972	0	-1	0	0	0	1
Dry	0	-51	-175	-562	-1,580	-632	0	-1	0	0	0	0
Critical	0	-7	-70	-350	-576	-125	0	0	0	0	-1	0

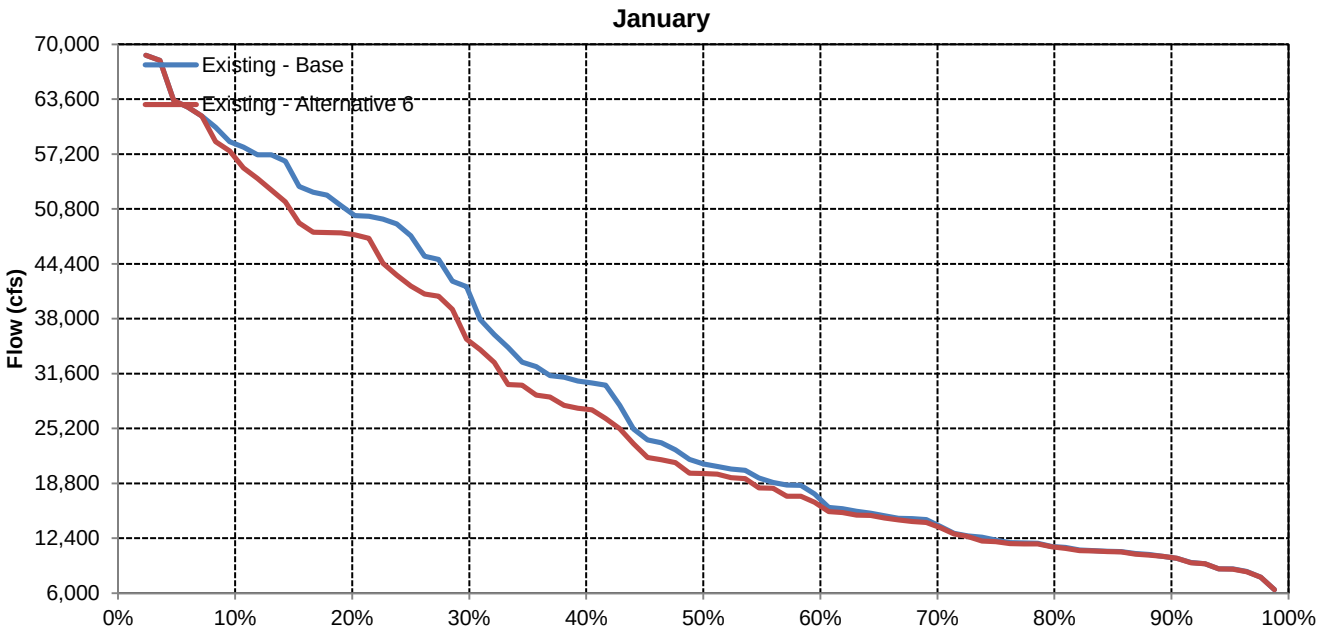
Sacramento River below Fremont Weir



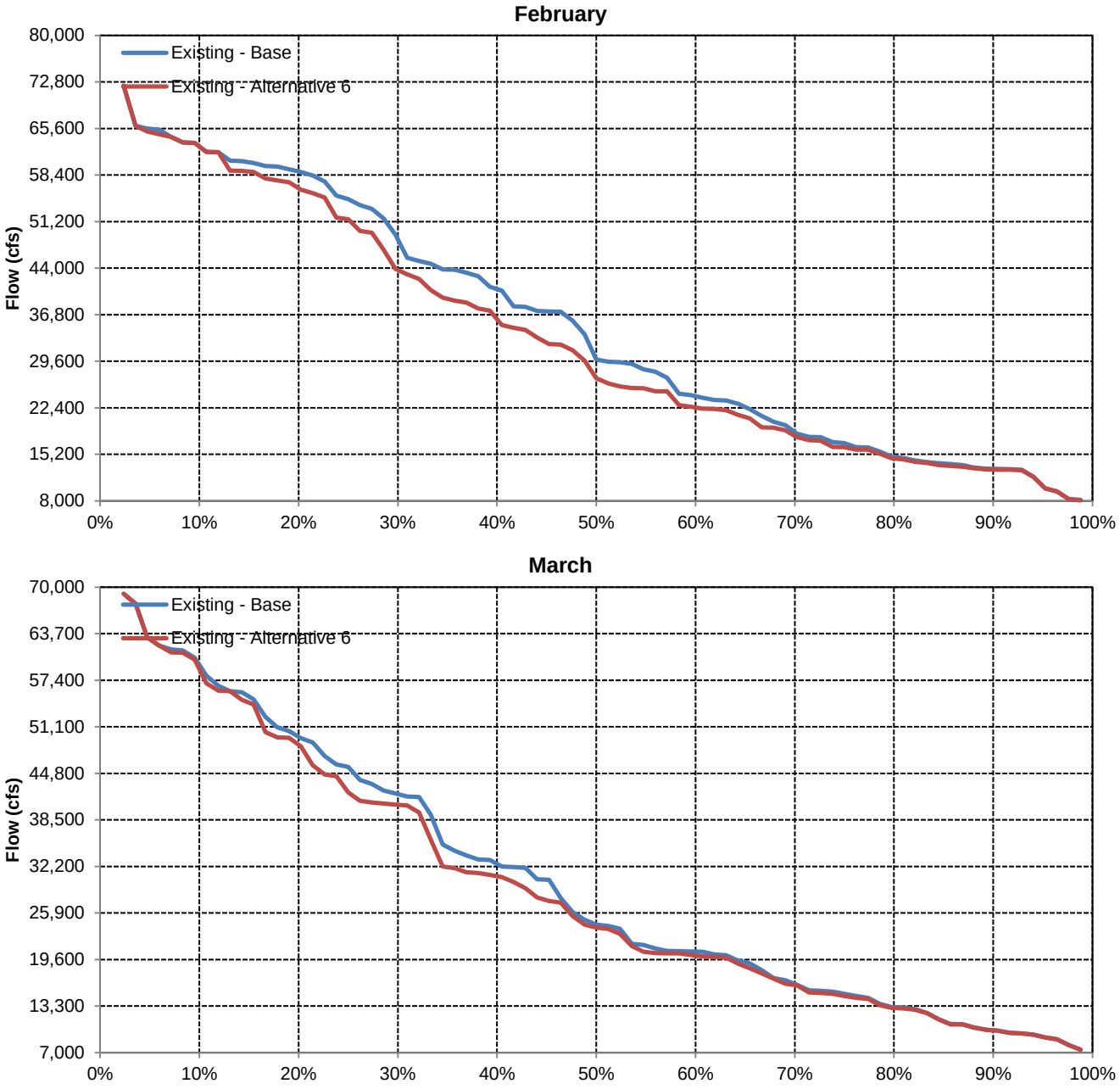


Sacramento River below Fremont Weir

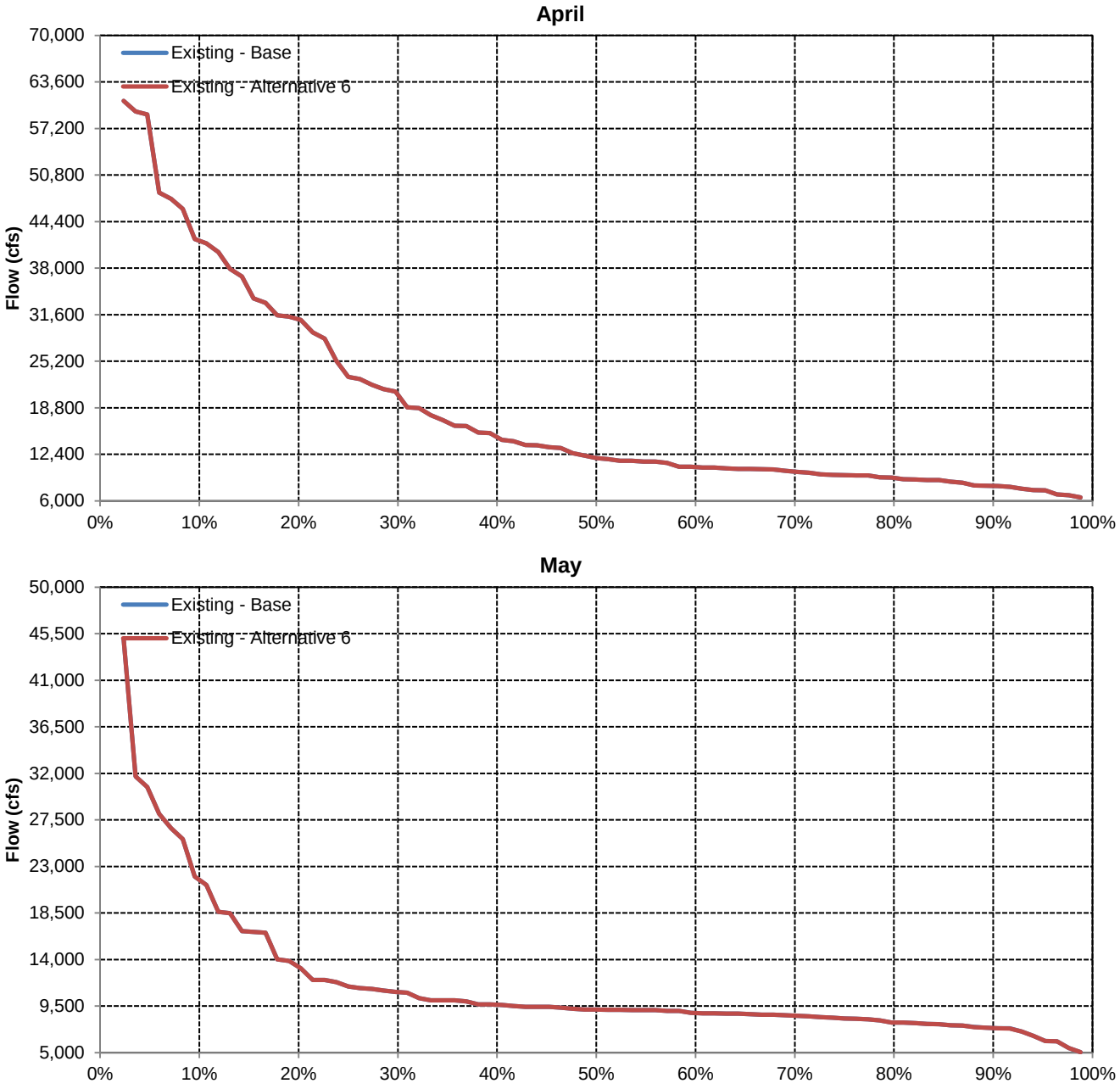




Sacramento River below Fremont Weir

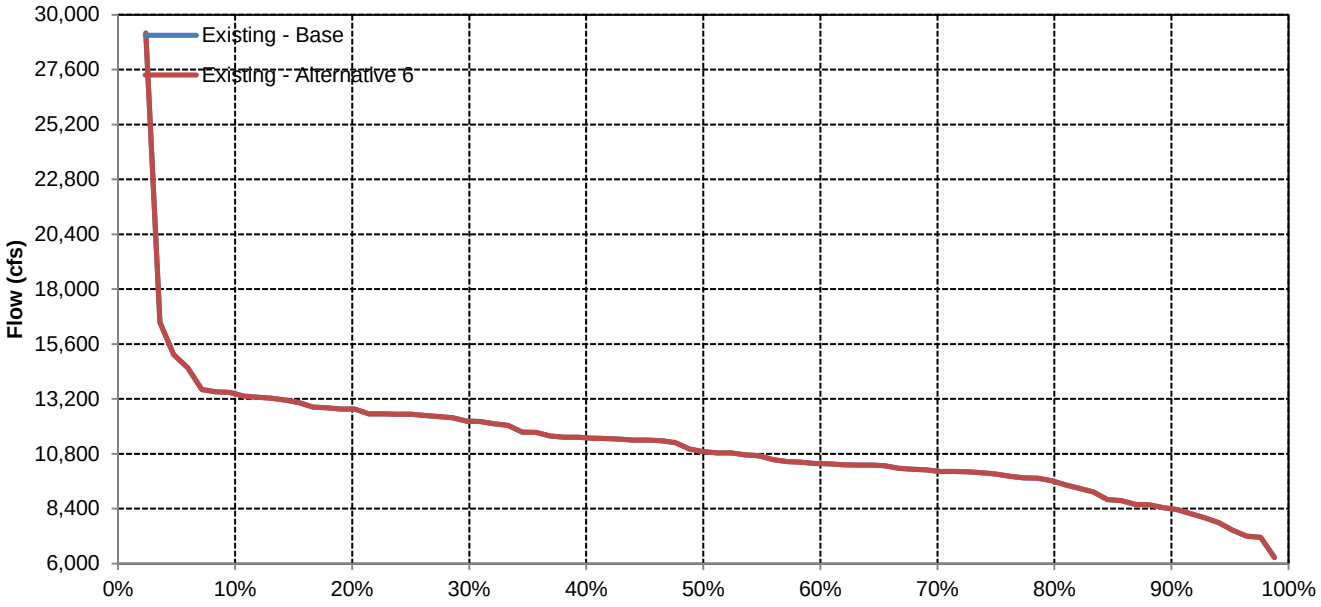


Sacramento River below Fremont Weir

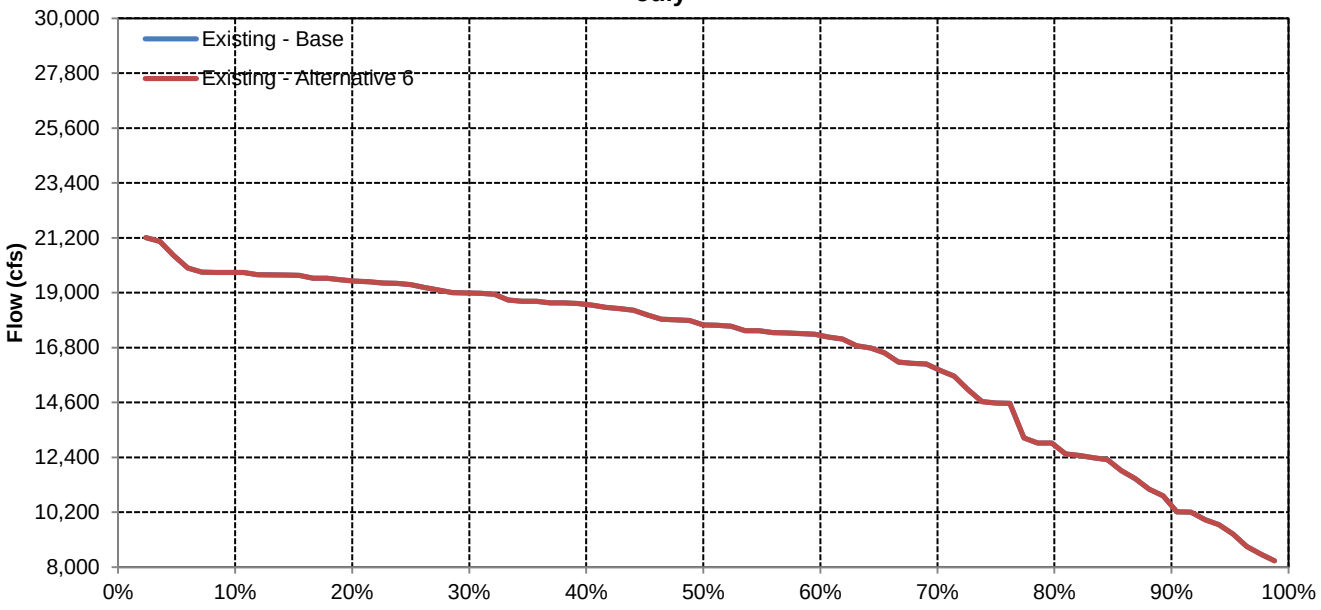


Sacramento River below Fremont Weir

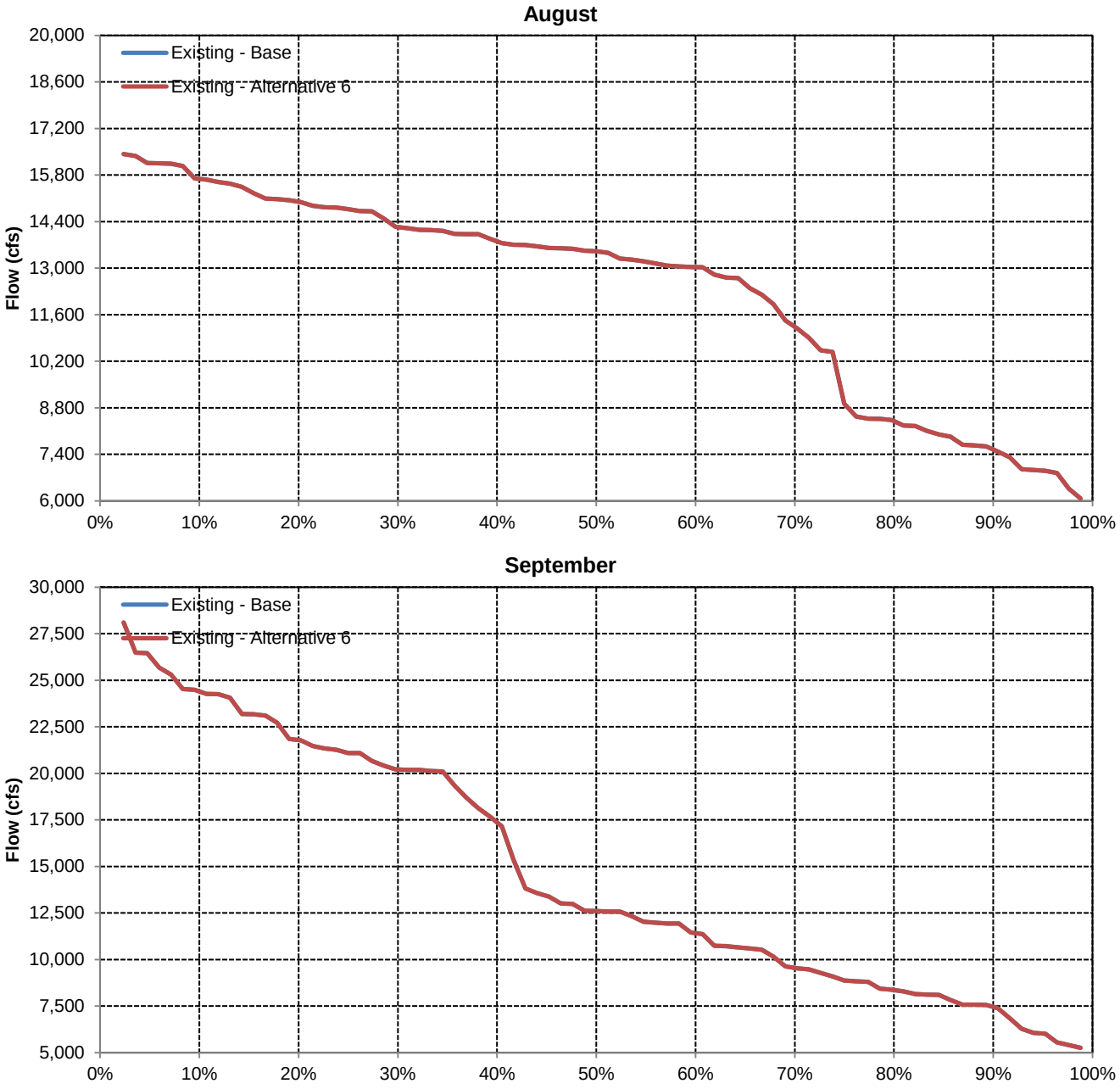
June



July



Sacramento River below Fremont Weir



Long-Term and Water Year-Type Average of Trinity Reservoir Under Existing - Base and Existing - Alternative 6

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Existing - Alternative 6	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Existing - Alternative 6	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Existing - Alternative 6	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Existing - Alternative 6	1,248	1,259	1,286	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Existing - Alternative 6	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Existing - Alternative 6	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Trinity Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,680	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,452	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,287	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 6

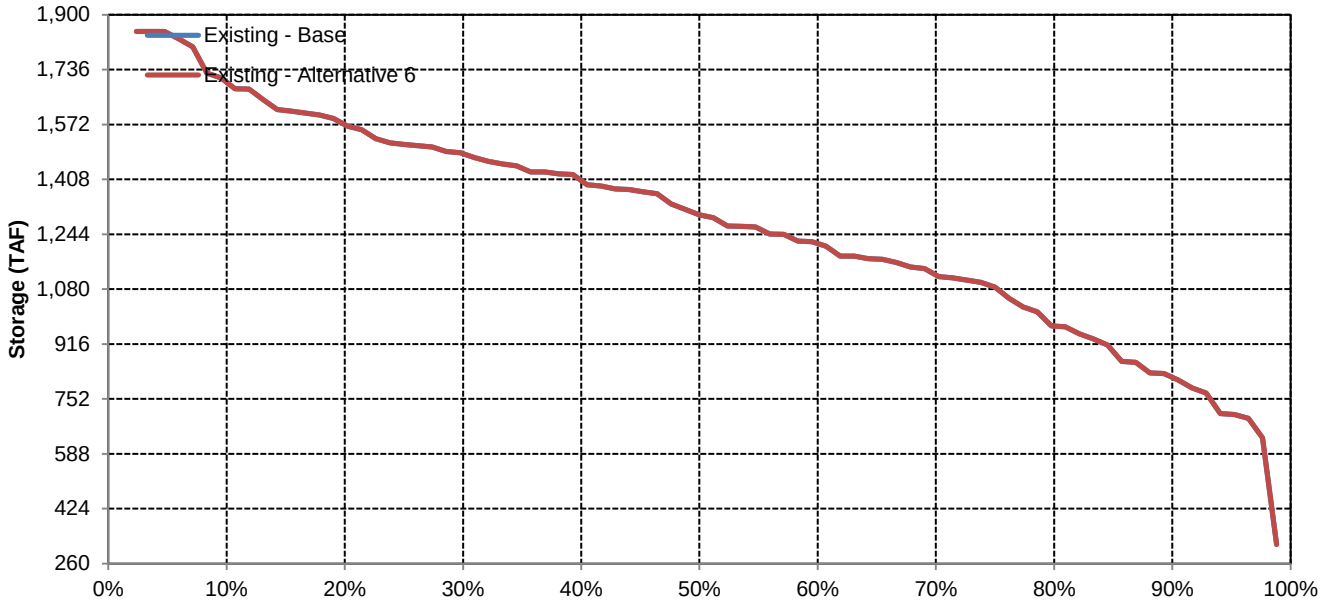
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	1,679	1,669	1,832	1,900	2,000	2,100	2,300	2,280	2,180	2,036	1,883	1,739
20%	1,561	1,564	1,651	1,871	2,000	2,100	2,253	2,180	2,061	1,899	1,757	1,620
30%	1,475	1,490	1,571	1,797	1,985	2,093	2,209	2,094	1,982	1,813	1,666	1,533
40%	1,391	1,375	1,503	1,663	1,844	2,014	2,151	2,039	1,892	1,736	1,573	1,442
50%	1,297	1,306	1,436	1,564	1,727	1,841	1,969	1,849	1,751	1,626	1,458	1,332
60%	1,211	1,218	1,325	1,409	1,575	1,748	1,859	1,779	1,681	1,531	1,369	1,247
70%	1,117	1,167	1,222	1,291	1,433	1,586	1,698	1,651	1,591	1,445	1,284	1,148
80%	969	979	1,041	1,144	1,328	1,453	1,593	1,574	1,453	1,293	1,119	1,009
90%	814	826	864	996	1,078	1,182	1,234	1,184	1,172	1,067	940	858
Long Term												
Full Simulation Period	1,276	1,285	1,370	1,501	1,641	1,769	1,902	1,832	1,743	1,596	1,445	1,326
Water Year Types												
Wet	1,352	1,401	1,574	1,777	1,943	2,063	2,232	2,168	2,045	1,906	1,771	1,629
Above Normal	1,354	1,330	1,434	1,642	1,822	1,999	2,154	2,062	1,975	1,816	1,661	1,520
Below Normal	1,248	1,259	1,286	1,409	1,560	1,708	1,857	1,790	1,716	1,581	1,414	1,315
Dry	1,303	1,288	1,329	1,373	1,484	1,619	1,724	1,640	1,555	1,384	1,220	1,110
Critical	1,041	1,030	1,052	1,087	1,153	1,212	1,267	1,214	1,174	1,038	895	807

Existing - Alternative 6 Minus Existing - Base

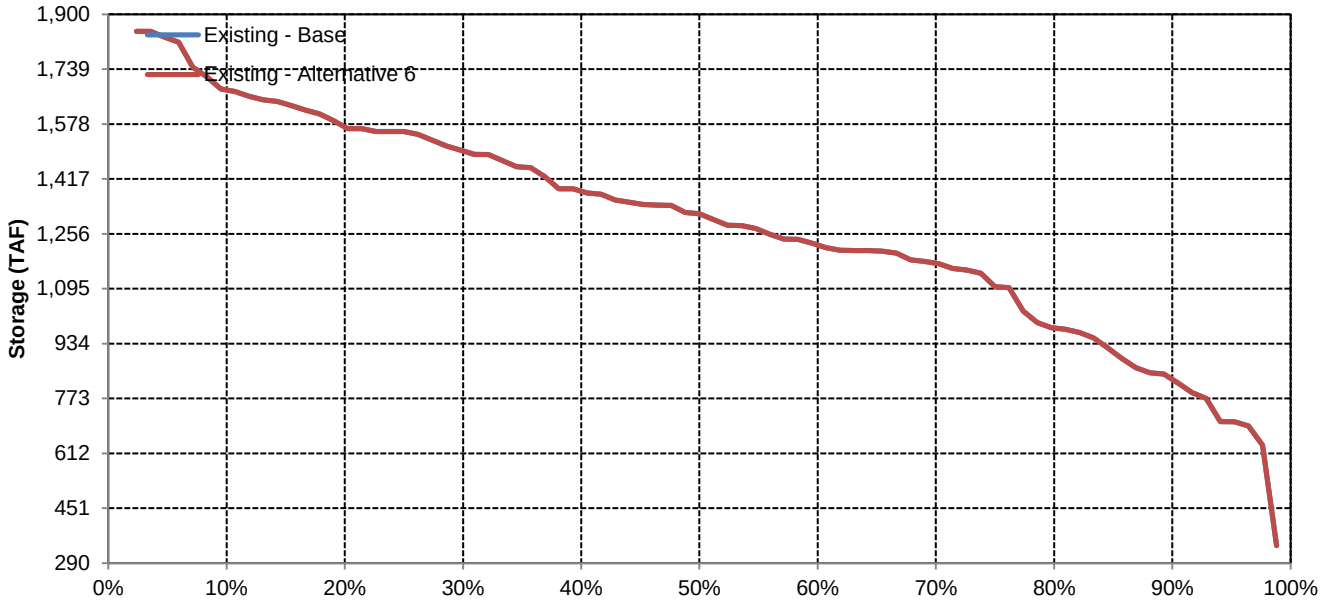
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Trinity Reservoir

October

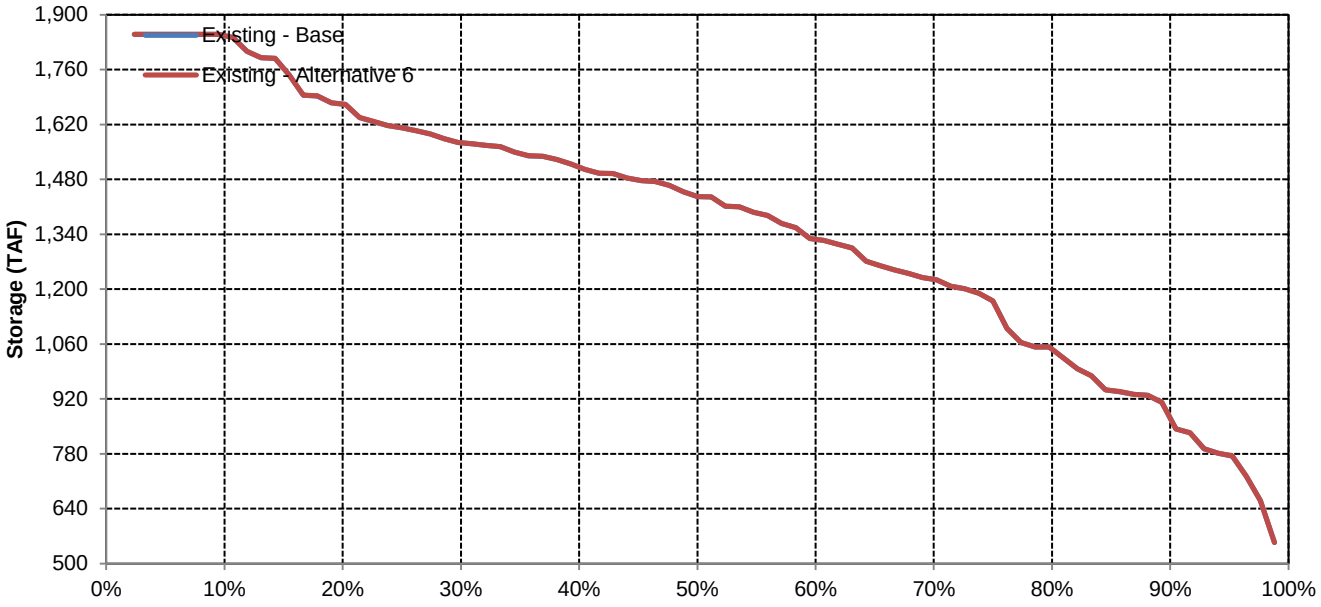


November

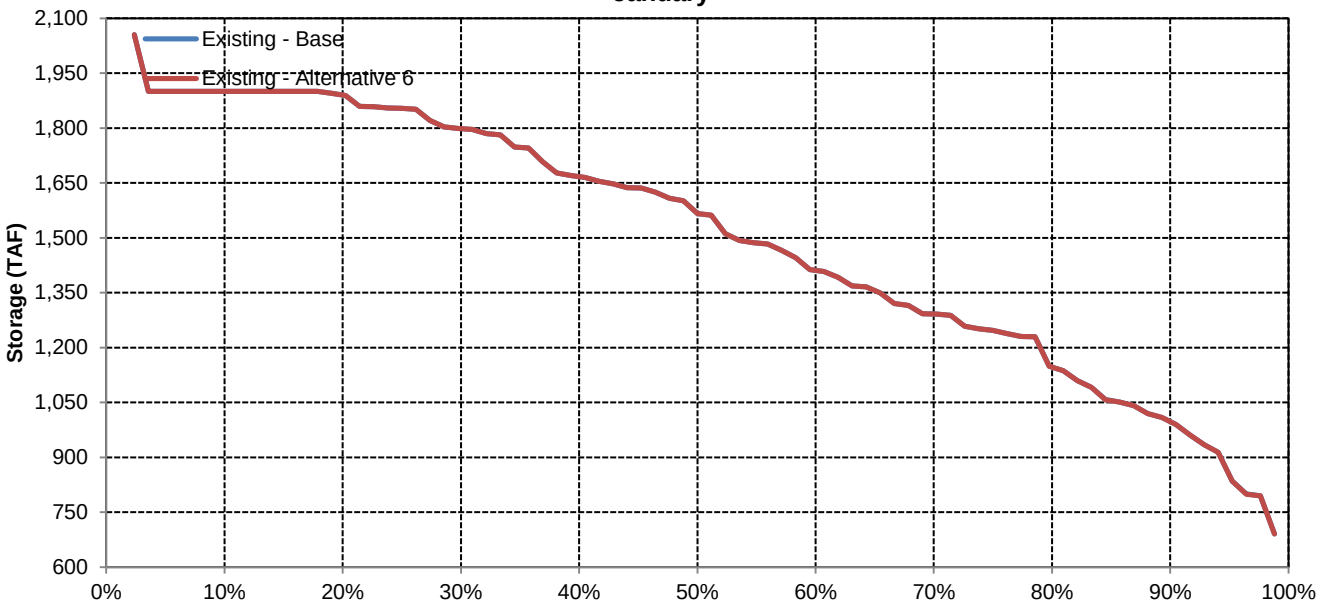


Trinity Reservoir

December

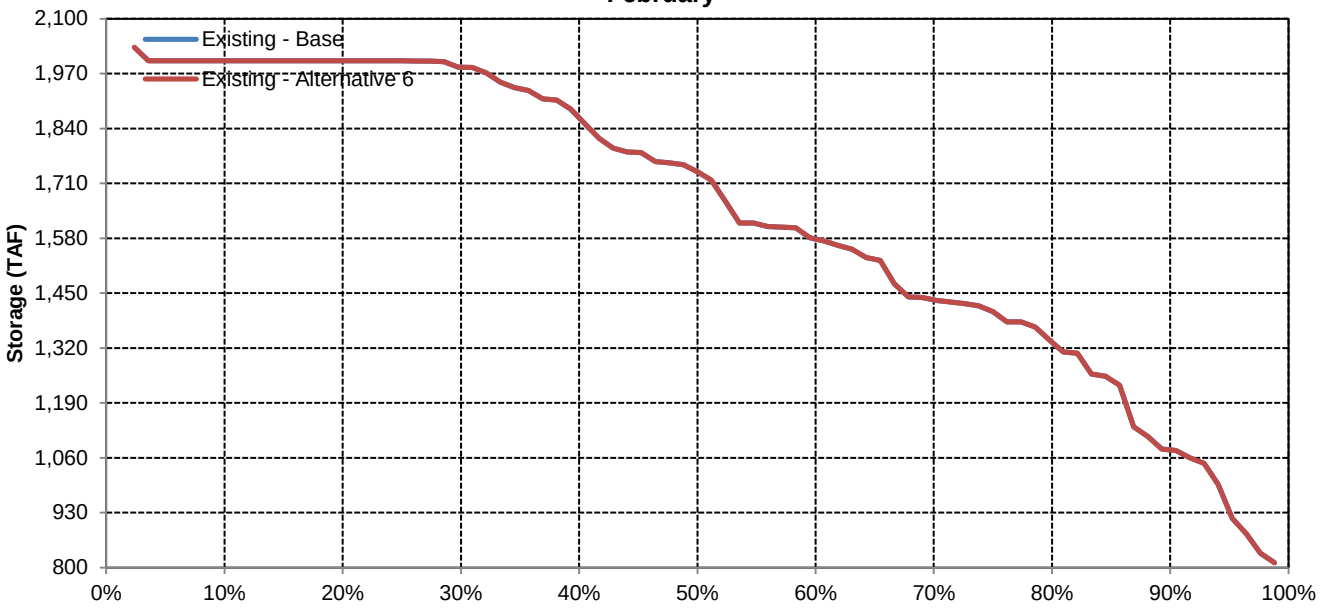


January

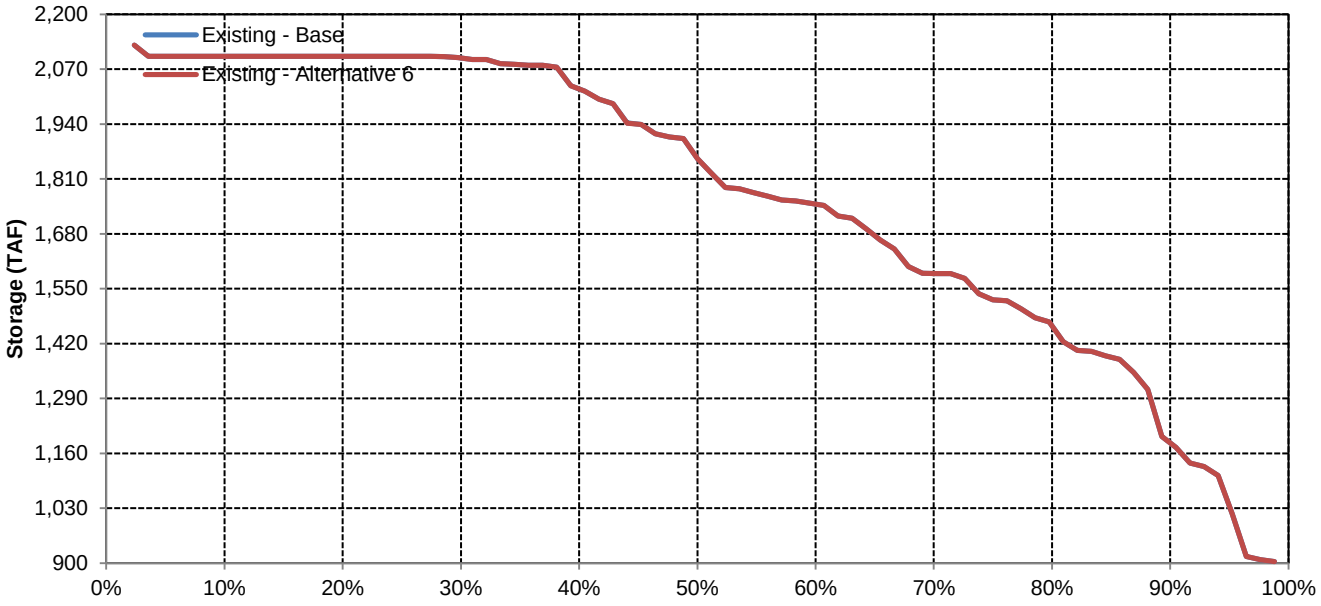


Trinity Reservoir

February

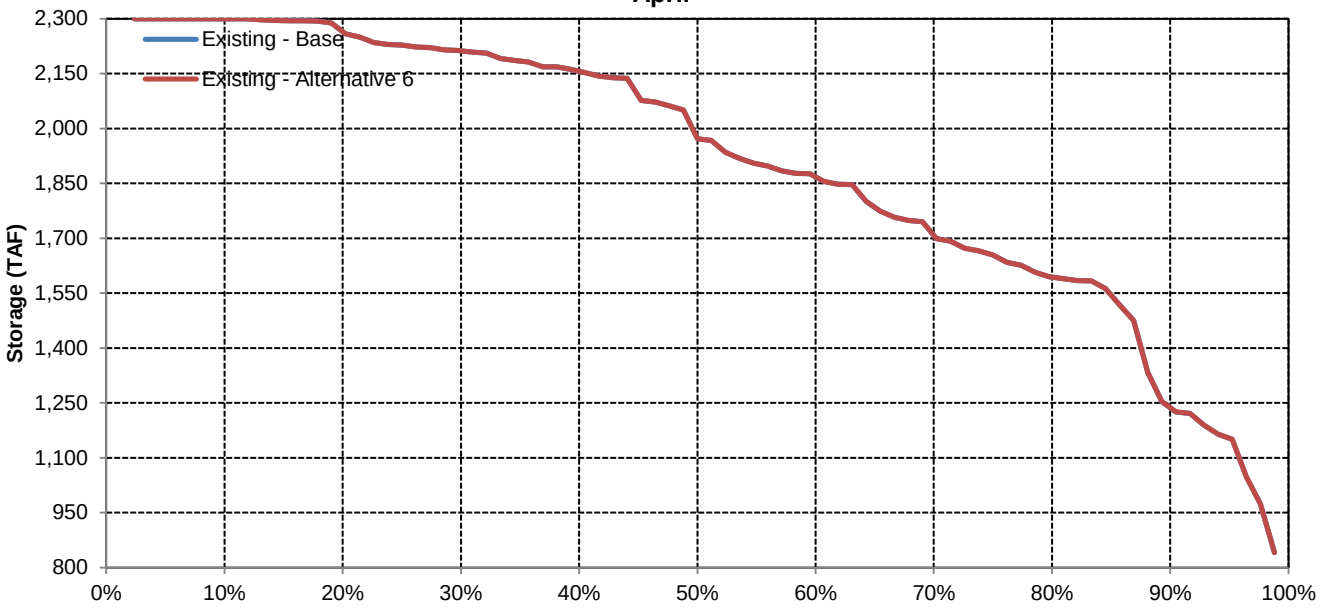


March

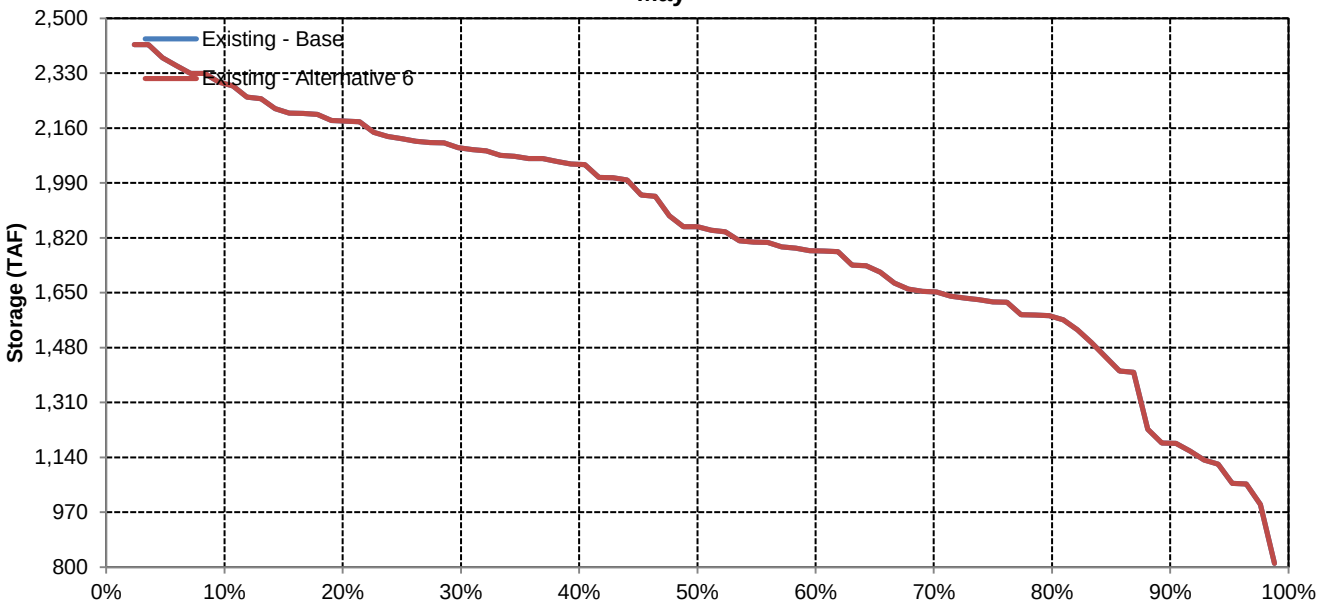


Trinity Reservoir

April

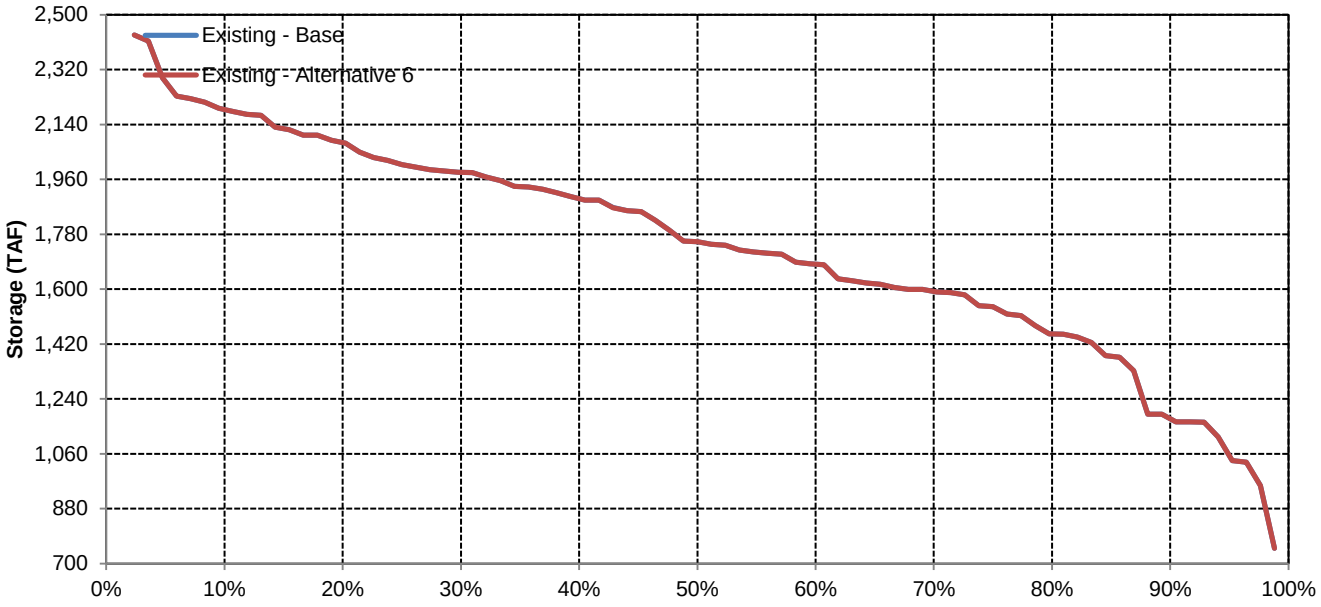


May

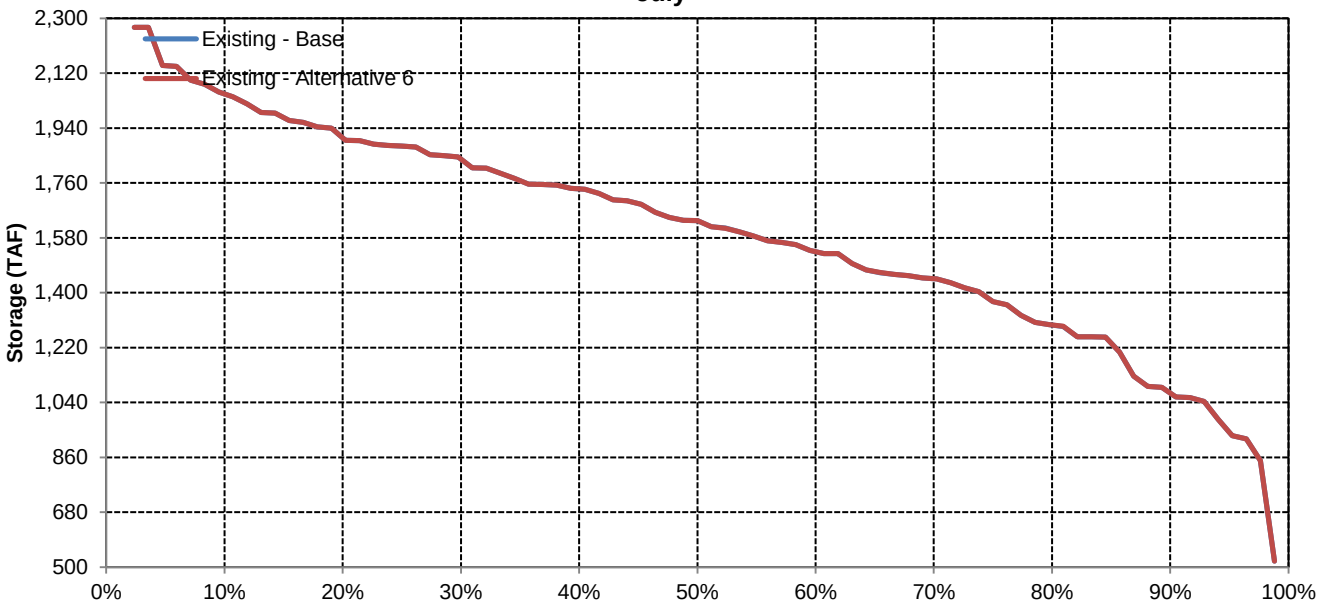


Trinity Reservoir

June

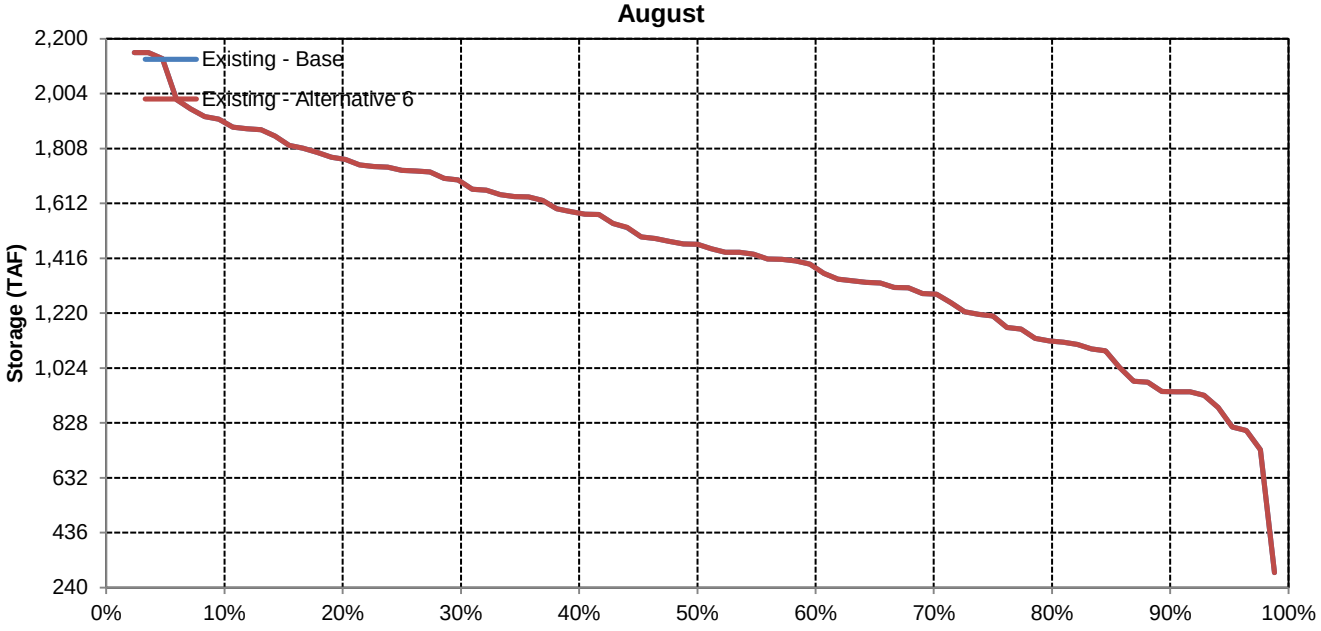


July

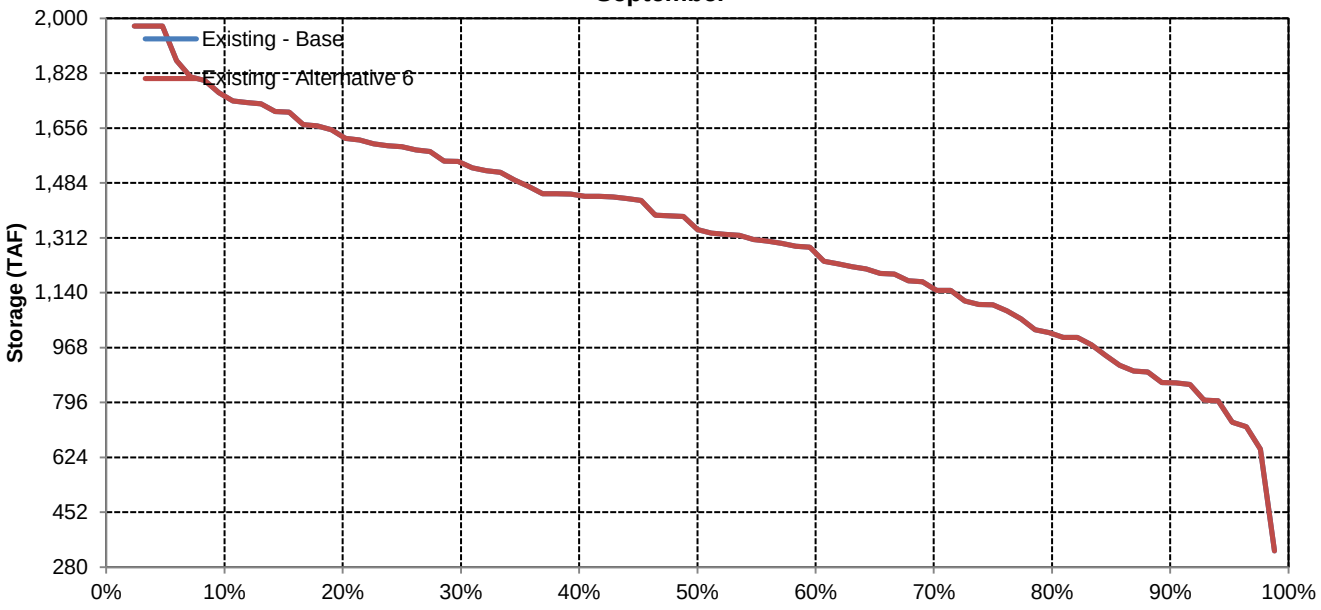


Trinity Reservoir

August



September



Long-Term and Water Year-Type Average of Shasta Reservoir Storage Under Existing - Base and Existing - Alternative 6

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Existing - Alternative 6	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Existing - Alternative 6	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Existing - Alternative 6	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Existing - Alternative 6	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Existing - Alternative 6	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Existing - Alternative 6	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Shasta Reservoir Storage

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,296	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,461	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,490
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,368	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,703	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

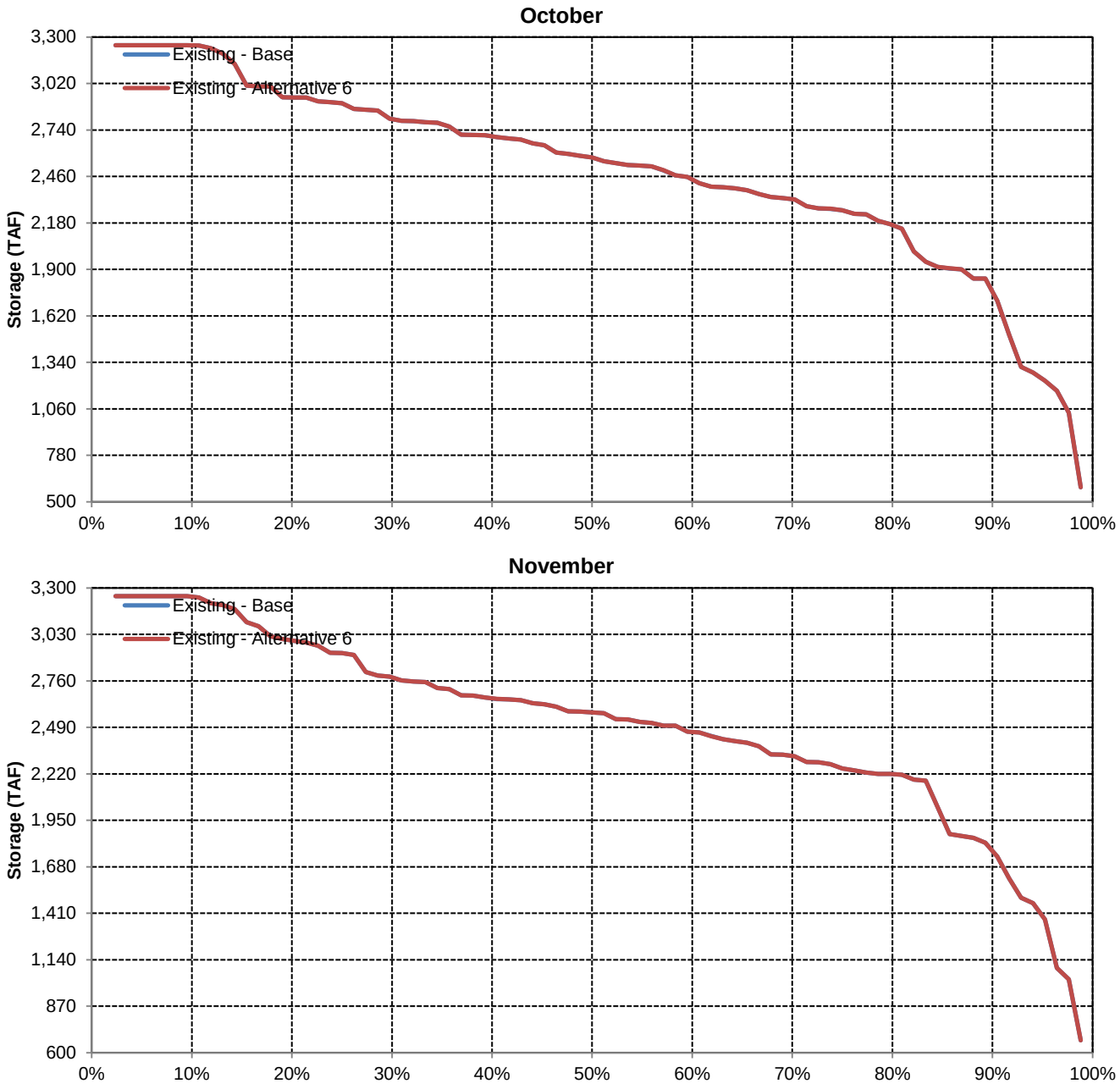
Existing - Alternative 6

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	3,244	3,235	3,326	3,635	3,894	4,241	4,535	4,552	4,292	3,804	3,449	3,173
20%	2,935	2,986	3,288	3,529	3,740	4,119	4,455	4,528	4,151	3,585	3,339	3,033
30%	2,796	2,765	3,252	3,373	3,662	4,036	4,356	4,434	4,067	3,445	3,153	2,831
40%	2,695	2,654	3,047	3,297	3,552	3,992	4,257	4,293	3,864	3,225	2,891	2,766
50%	2,563	2,574	2,797	3,246	3,471	3,906	4,206	4,183	3,681	3,093	2,805	2,667
60%	2,427	2,462	2,677	3,001	3,300	3,744	4,097	4,057	3,556	2,974	2,699	2,491
70%	2,318	2,318	2,503	2,902	3,251	3,531	3,948	3,837	3,399	2,816	2,509	2,373
80%	2,161	2,218	2,369	2,685	3,077	3,387	3,457	3,270	2,912	2,497	2,253	2,259
90%	1,751	1,763	1,960	2,366	2,766	3,186	3,065	2,980	2,526	2,019	1,715	1,746
Long Term												
Full Simulation Period	2,487	2,504	2,755	3,076	3,374	3,757	3,995	3,956	3,567	3,020	2,727	2,556
Water Year Types												
Wet	2,613	2,702	3,100	3,440	3,579	3,865	4,280	4,388	4,084	3,560	3,256	2,842
Above Normal	2,537	2,485	2,766	3,212	3,572	4,014	4,364	4,325	3,912	3,323	3,009	2,768
Below Normal	2,369	2,436	2,594	2,989	3,427	3,933	4,220	4,140	3,704	3,083	2,787	2,785
Dry	2,489	2,449	2,648	2,874	3,288	3,732	3,800	3,677	3,263	2,775	2,491	2,466
Critical	2,338	2,278	2,396	2,576	2,786	3,059	2,976	2,802	2,354	1,832	1,572	1,547

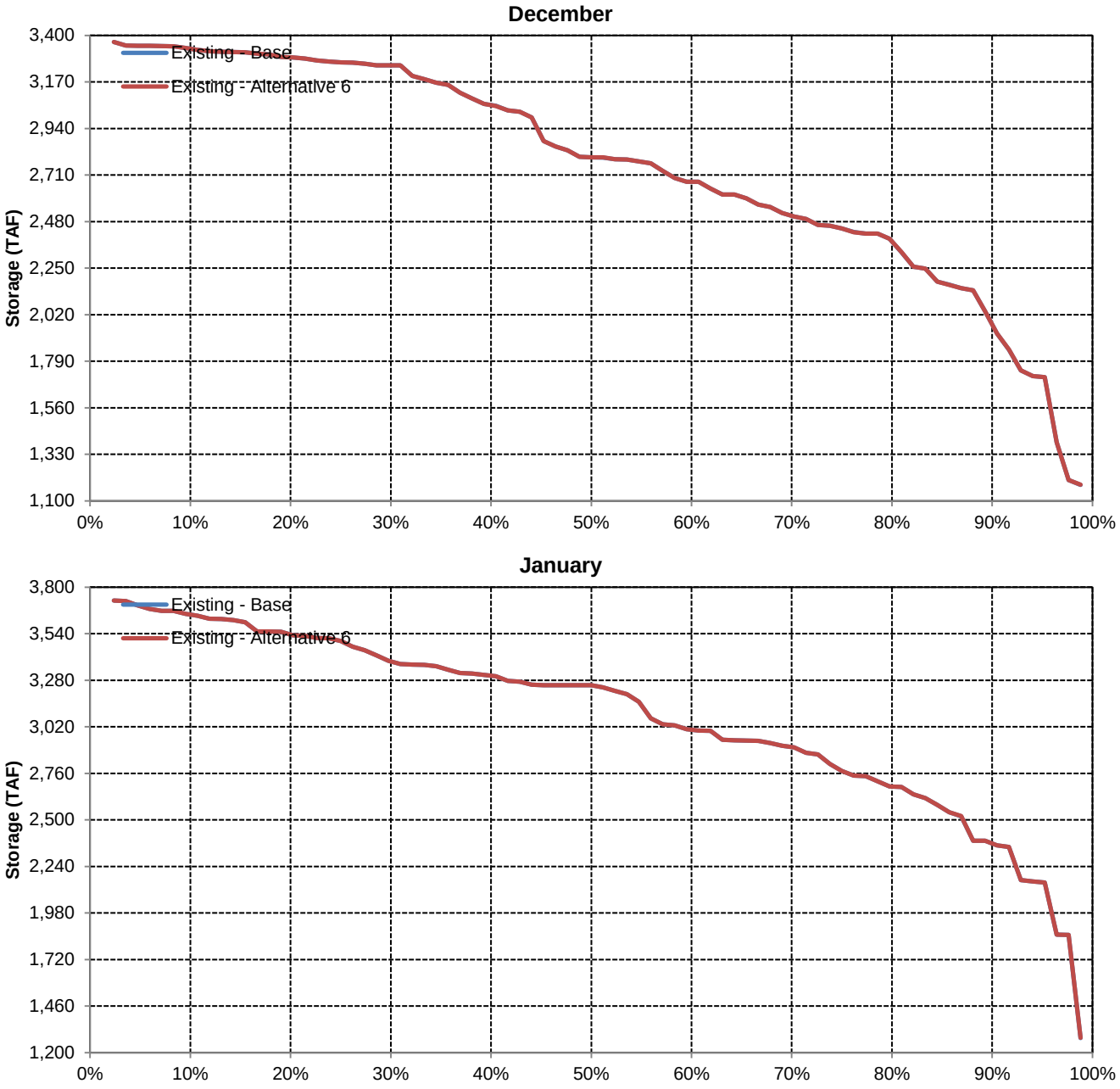
Existing - Alternative 6 Minus Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Shasta Reservoir Storage

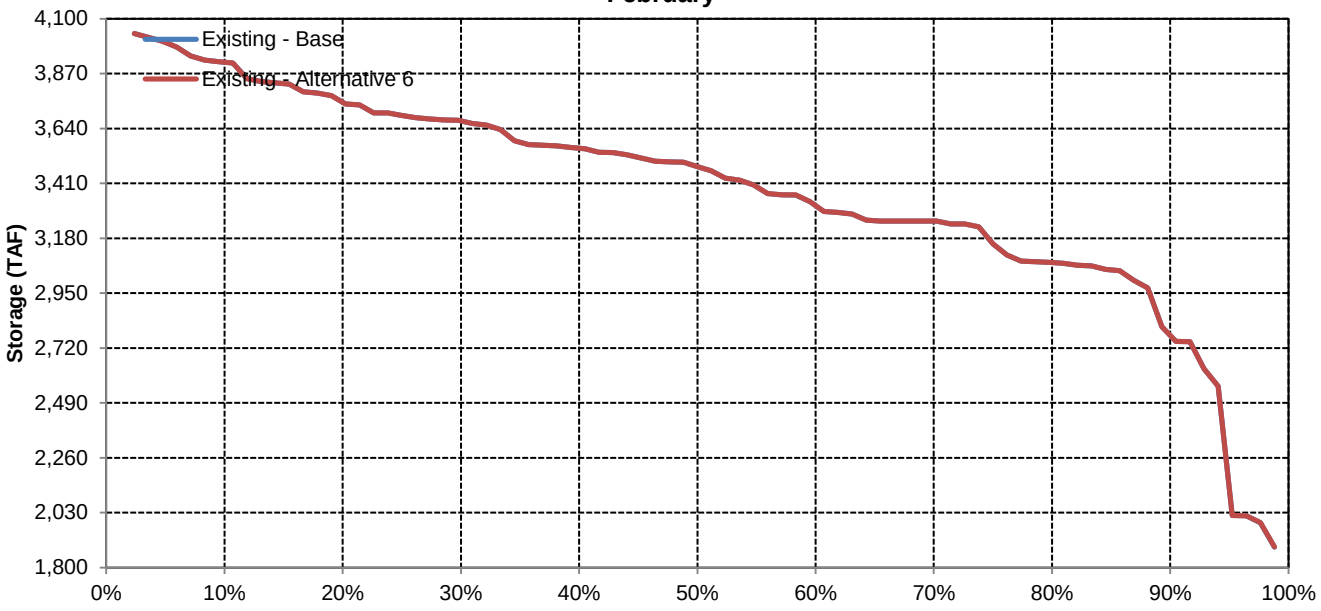


Shasta Reservoir Storage

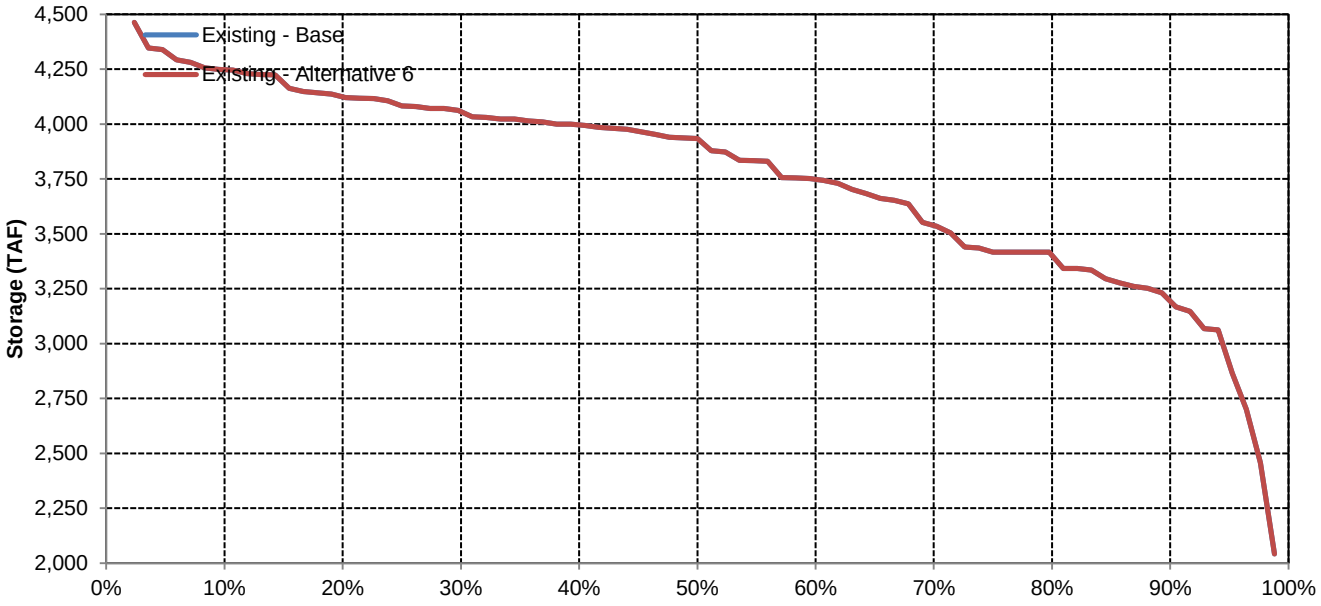


Shasta Reservoir Storage

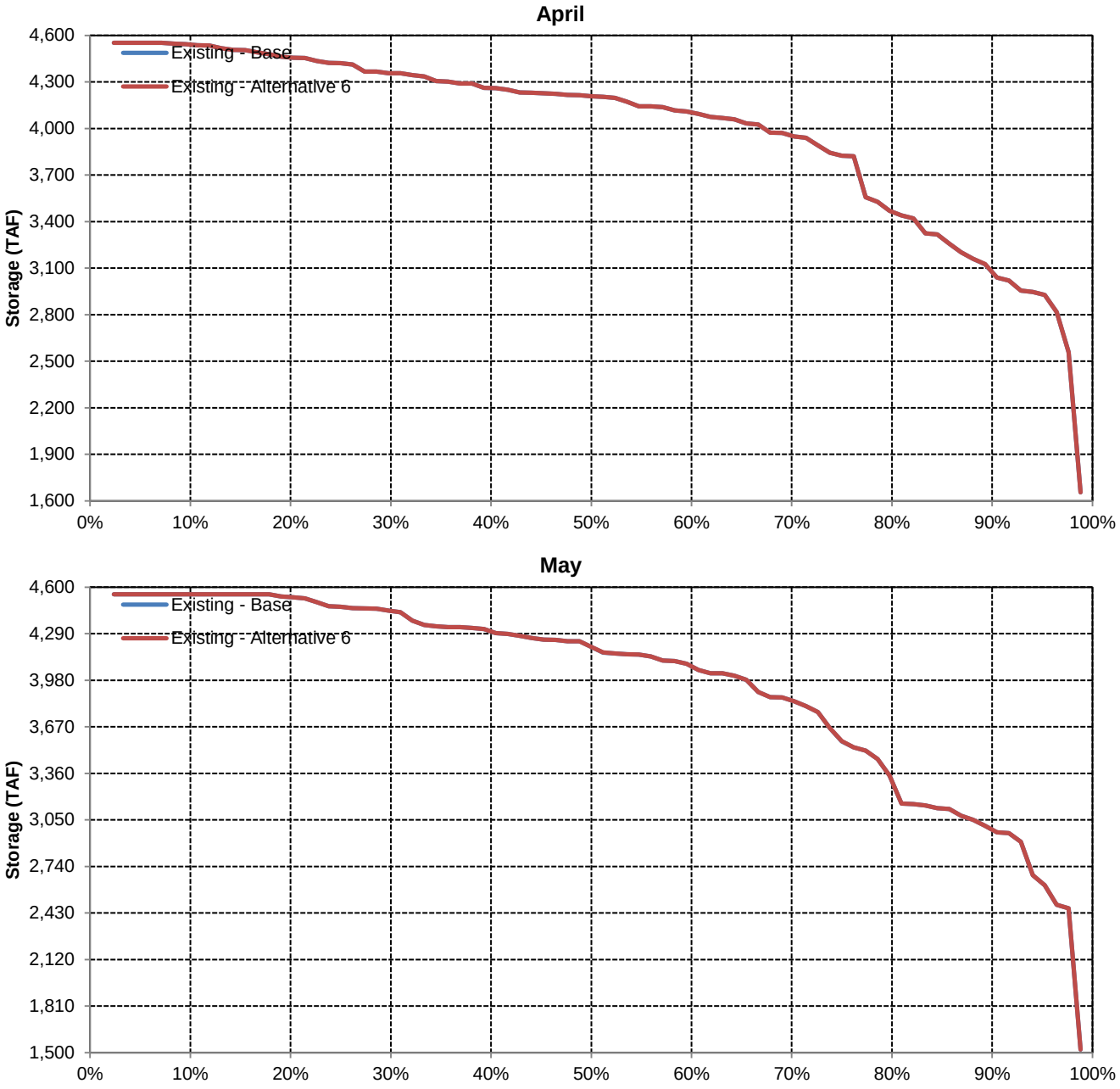
February



March

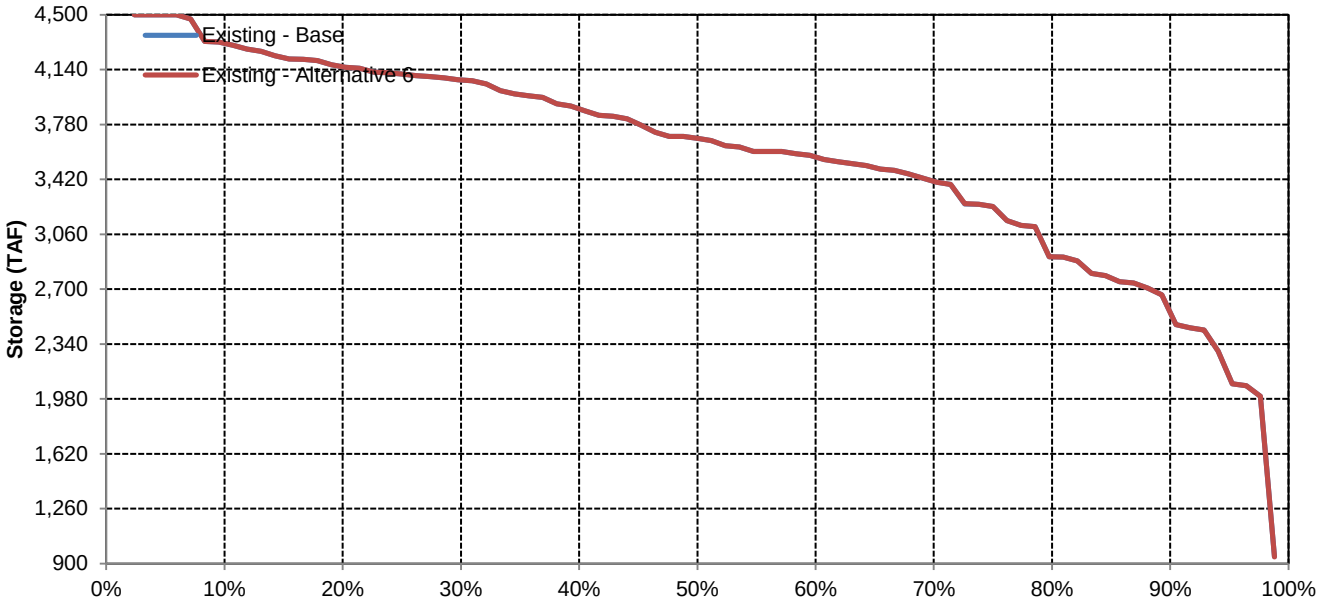


Shasta Reservoir Storage

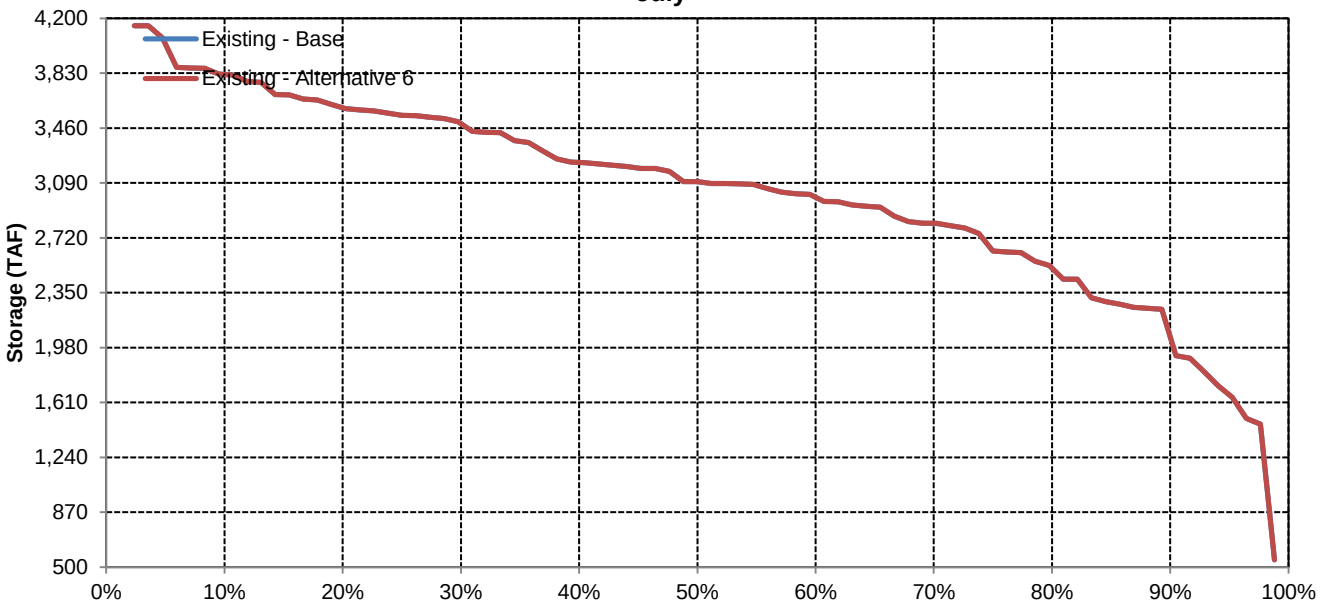


Shasta Reservoir Storage

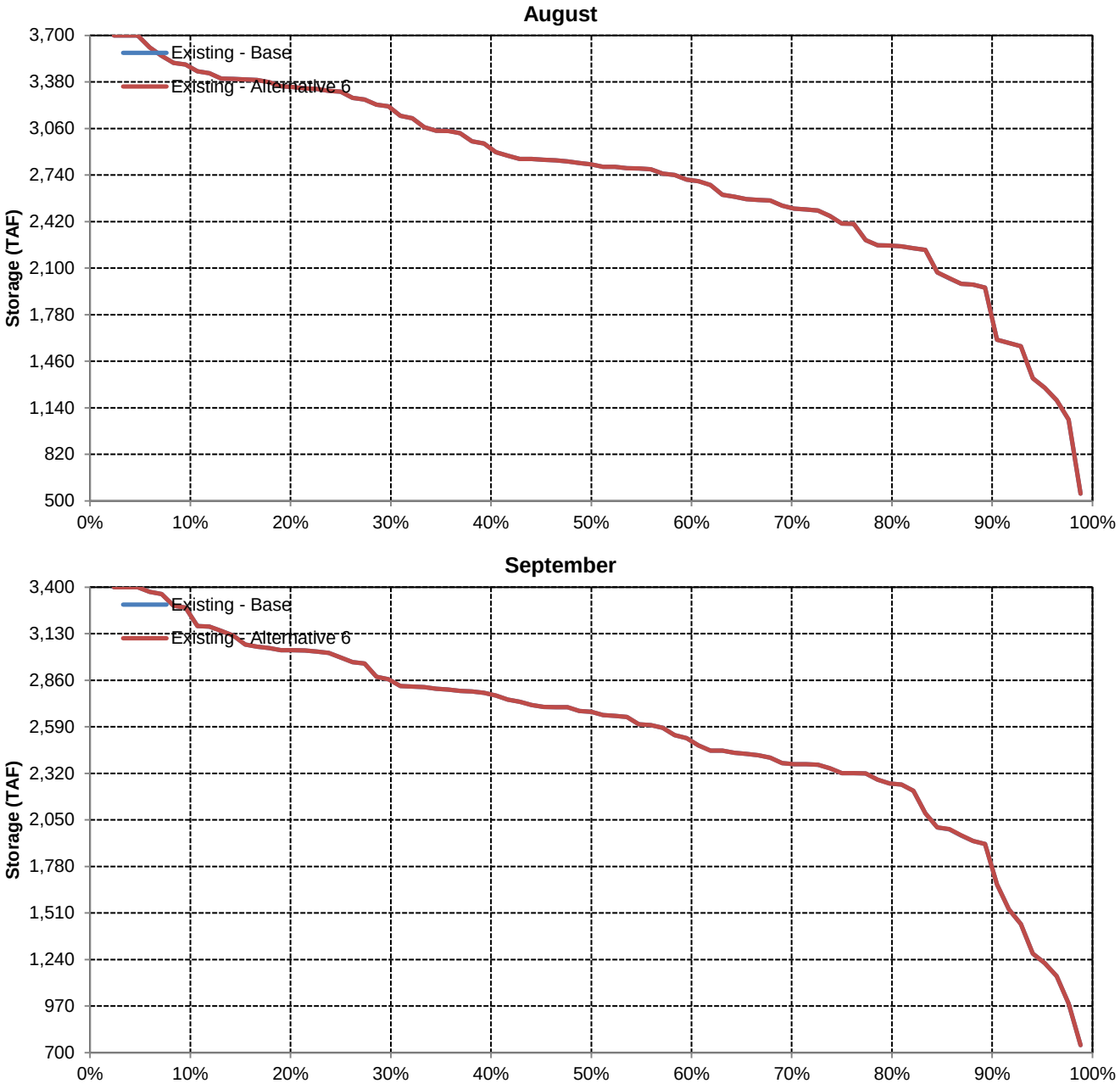
June



July



Shasta Reservoir Storage



Long-Term and Water Year-Type Average of Oroville Reservoir Under Existing - Base and Existing - Alternative 6

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Existing - Alternative 6	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Existing - Alternative 6	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Existing - Alternative 6	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Existing - Alternative 6	1,400	1,432	1,461	1,739	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Existing - Alternative 6	1,218	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,059	1,571	1,315	1,149
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Existing - Alternative 6	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,266	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,474	1,911	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,391
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,289
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,196
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,733	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,516	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,431	1,460	1,738	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,217	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,058	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 6

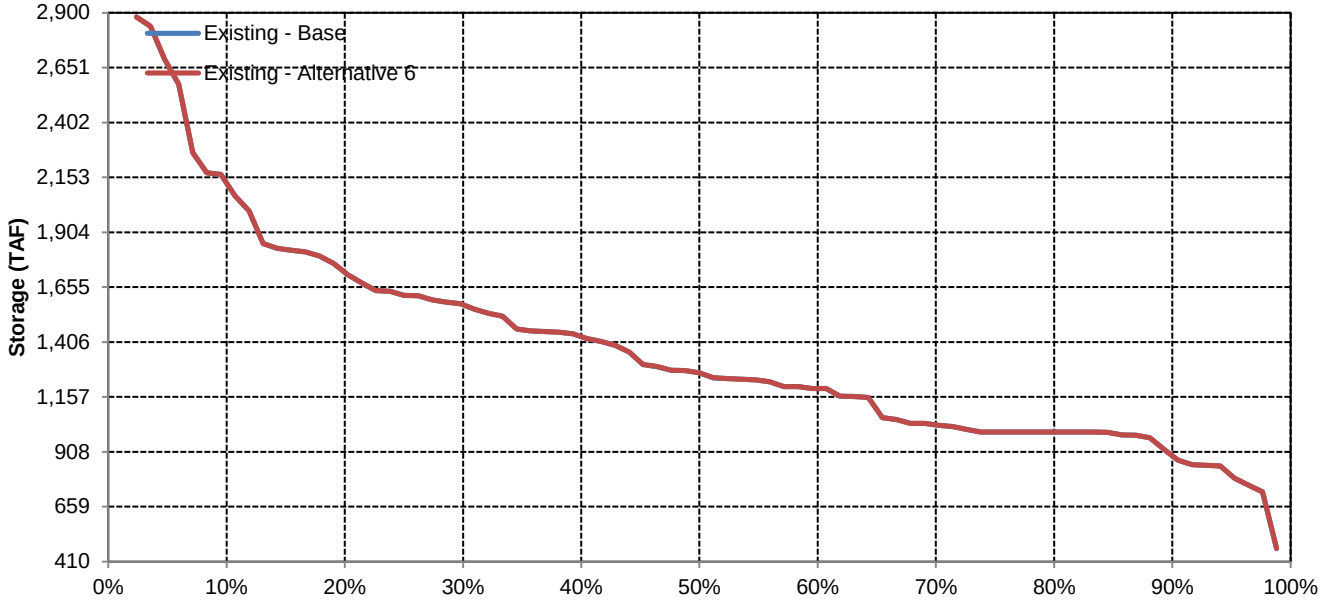
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	2,048	2,100	2,788	2,852	2,973	3,062	3,347	3,538	3,464	2,932	2,540	2,049
20%	1,690	1,724	2,265	2,788	2,821	2,991	3,279	3,429	3,319	2,720	2,274	1,870
30%	1,557	1,571	1,864	2,609	2,788	2,938	3,234	3,313	3,103	2,478	2,087	1,726
40%	1,418	1,455	1,626	2,184	2,788	2,817	3,162	3,202	2,948	2,271	1,793	1,522
50%	1,255	1,303	1,473	1,912	2,537	2,788	3,042	2,980	2,730	2,097	1,619	1,392
60%	1,195	1,197	1,303	1,674	2,093	2,588	2,813	2,722	2,447	1,842	1,446	1,290
70%	1,027	1,088	1,226	1,470	1,932	2,306	2,344	2,503	2,236	1,596	1,366	1,197
80%	998	1,019	1,128	1,352	1,643	2,058	2,129	2,080	1,885	1,434	1,135	1,012
90%	885	956	992	1,085	1,275	1,582	1,648	1,551	1,356	1,036	898	852
Long Term												
Full Simulation Period	1,375	1,426	1,653	1,978	2,289	2,521	2,734	2,764	2,570	2,055	1,720	1,475
Water Year Types												
Wet	1,517	1,714	2,247	2,673	2,864	2,952	3,256	3,383	3,246	2,729	2,371	1,947
Above Normal	1,465	1,439	1,710	2,291	2,764	2,945	3,251	3,314	3,133	2,506	2,052	1,703
Below Normal	1,400	1,432	1,461	1,739	2,132	2,519	2,765	2,772	2,519	1,889	1,450	1,333
Dry	1,218	1,186	1,283	1,463	1,859	2,221	2,348	2,304	2,059	1,571	1,315	1,149
Critical	1,167	1,125	1,125	1,245	1,411	1,604	1,597	1,528	1,356	1,082	952	901

Existing - Alternative 6 Minus Existing - Base

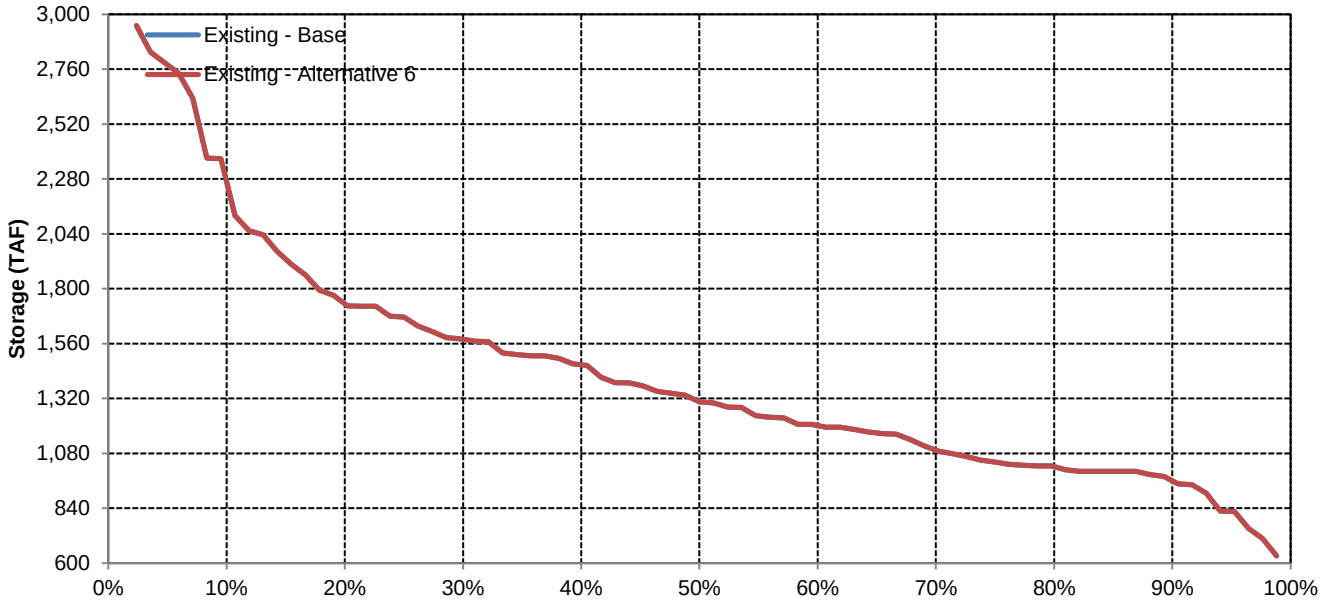
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	0	1	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Oroville Reservoir

October

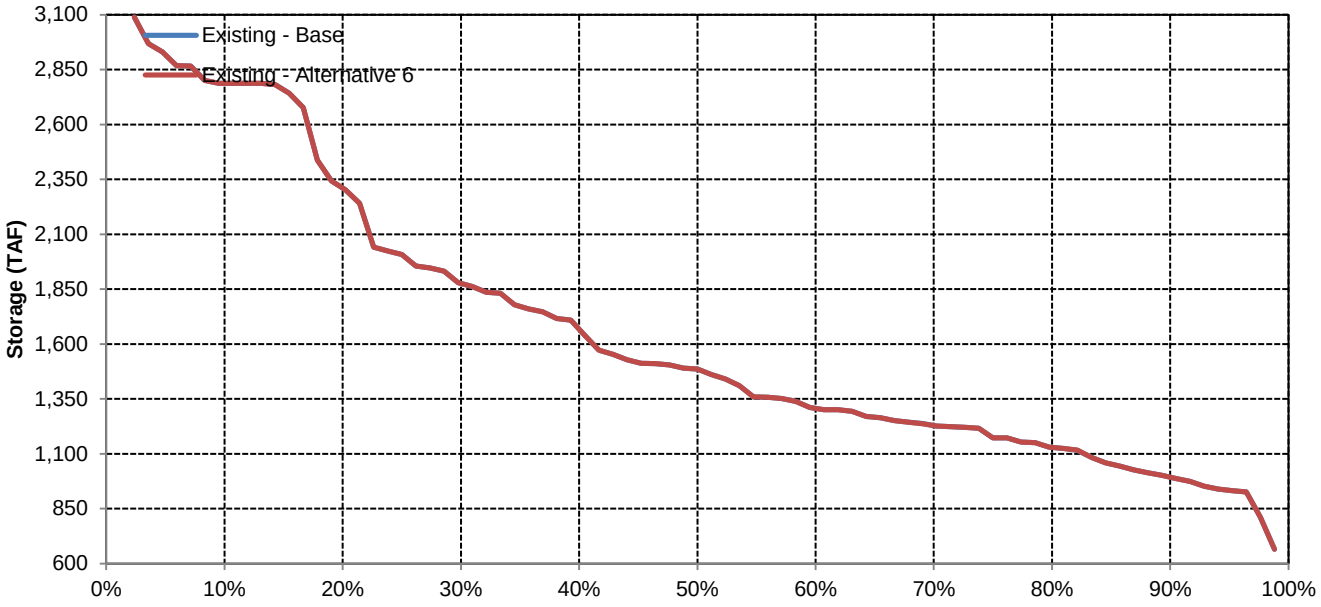


November

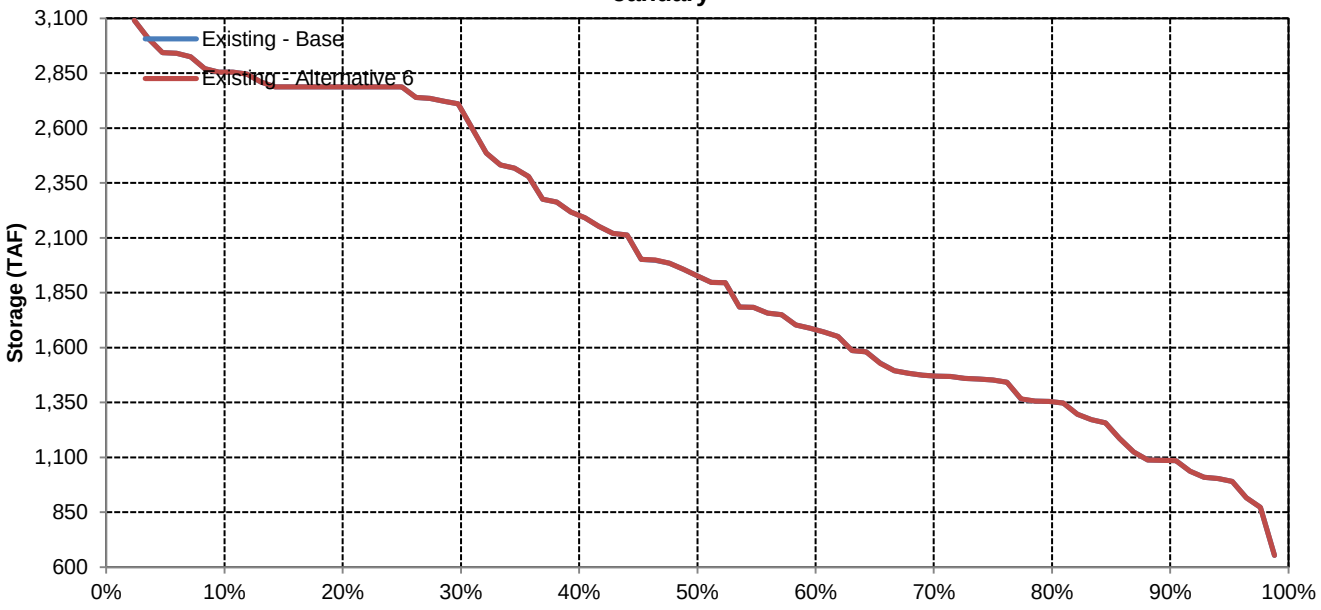


Oroville Reservoir

December

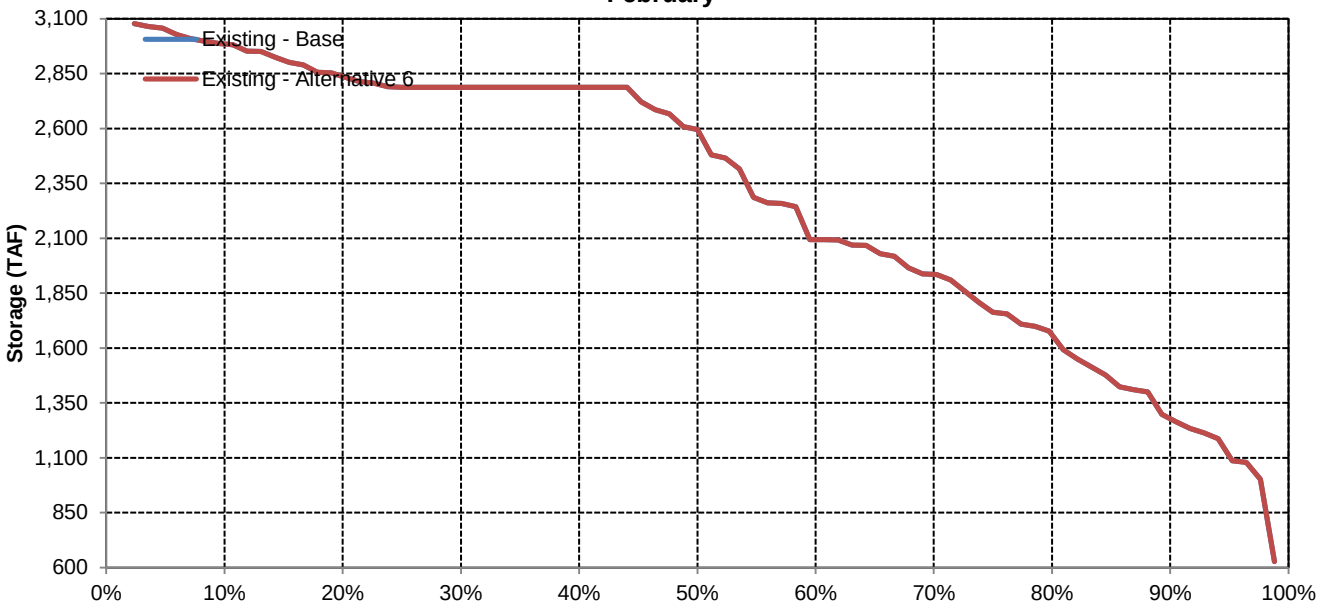


January

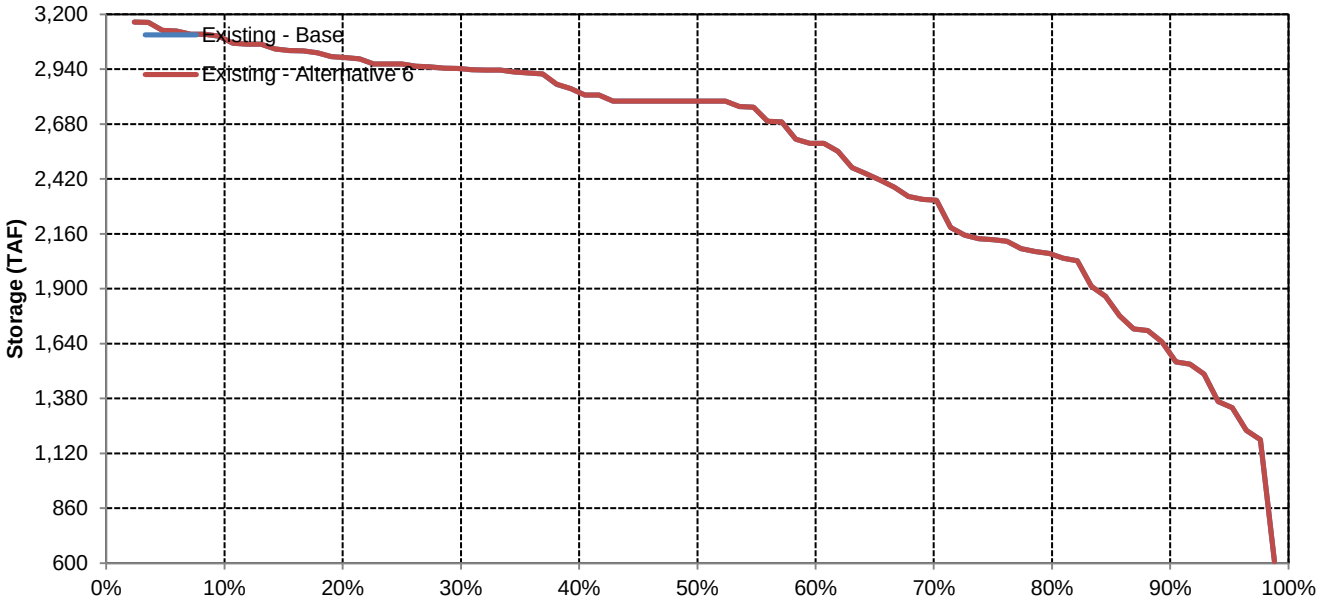


Oroville Reservoir

February

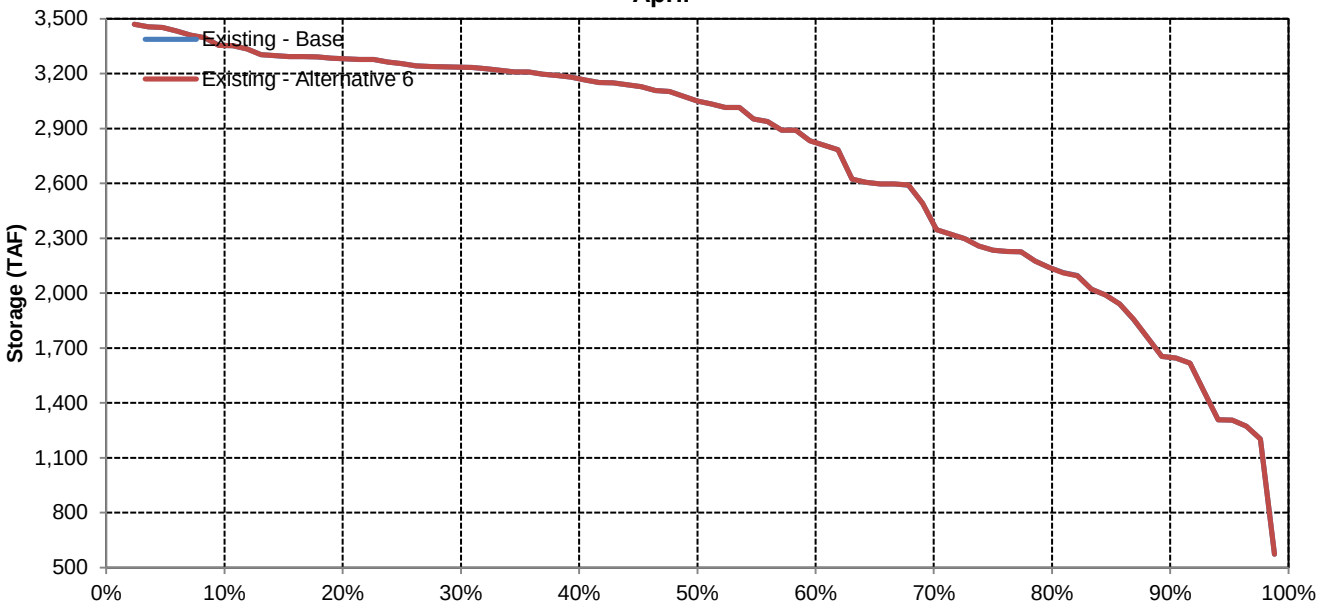


March

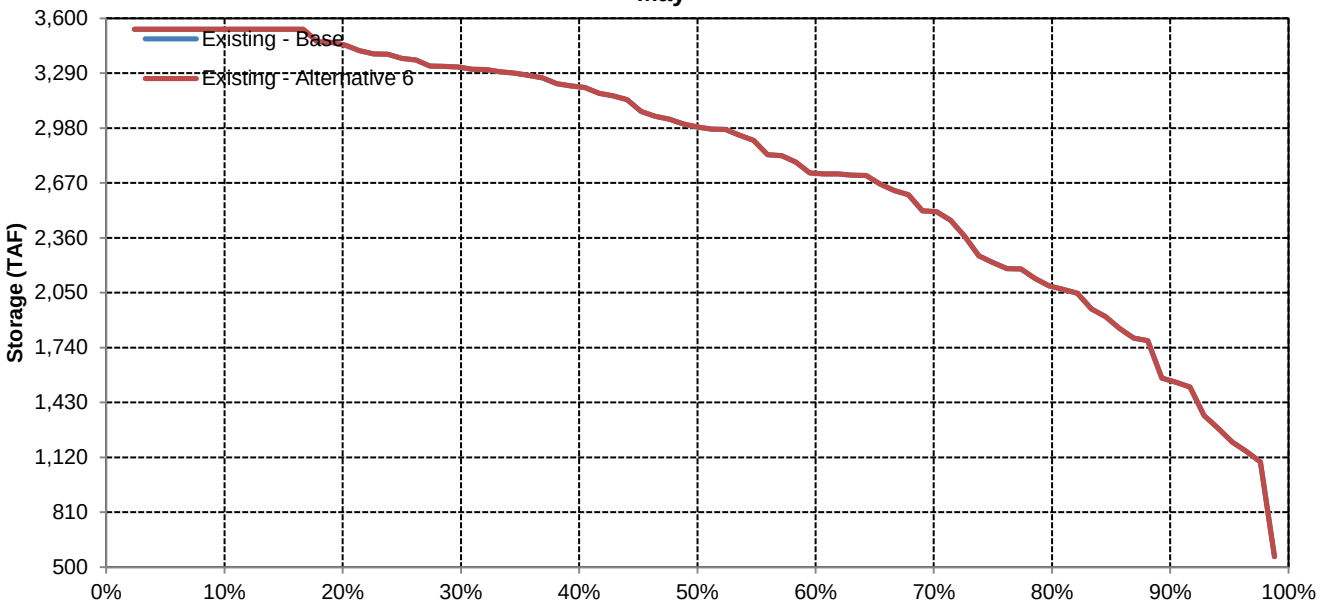


Oroville Reservoir

April

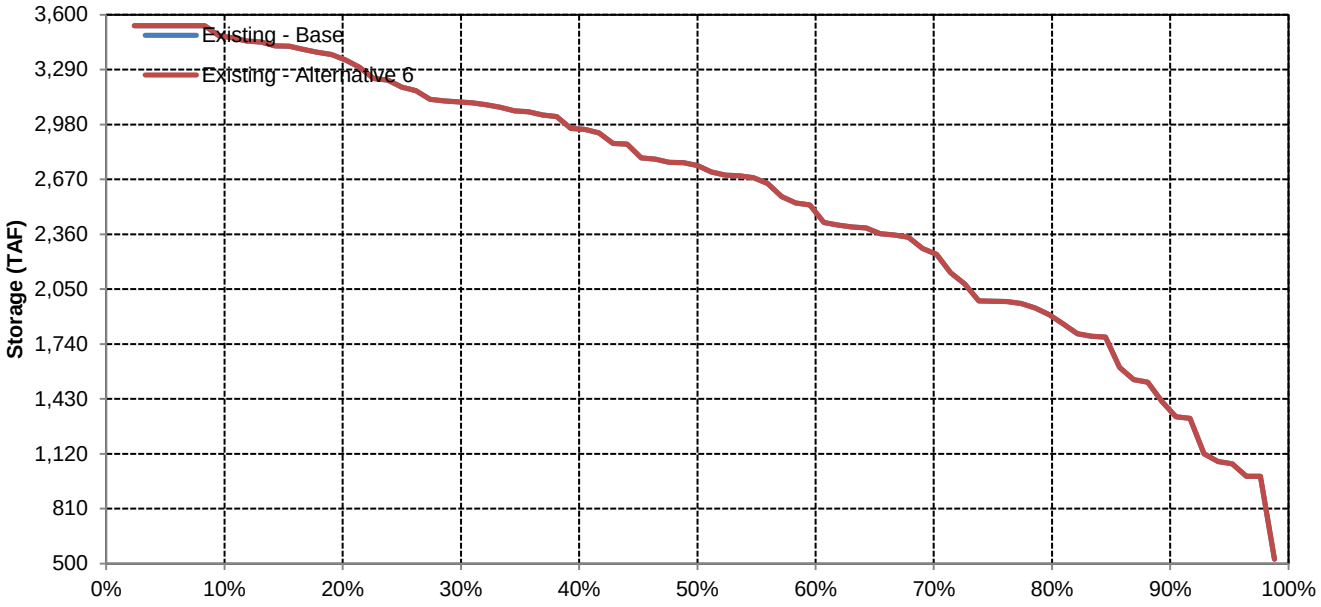


May

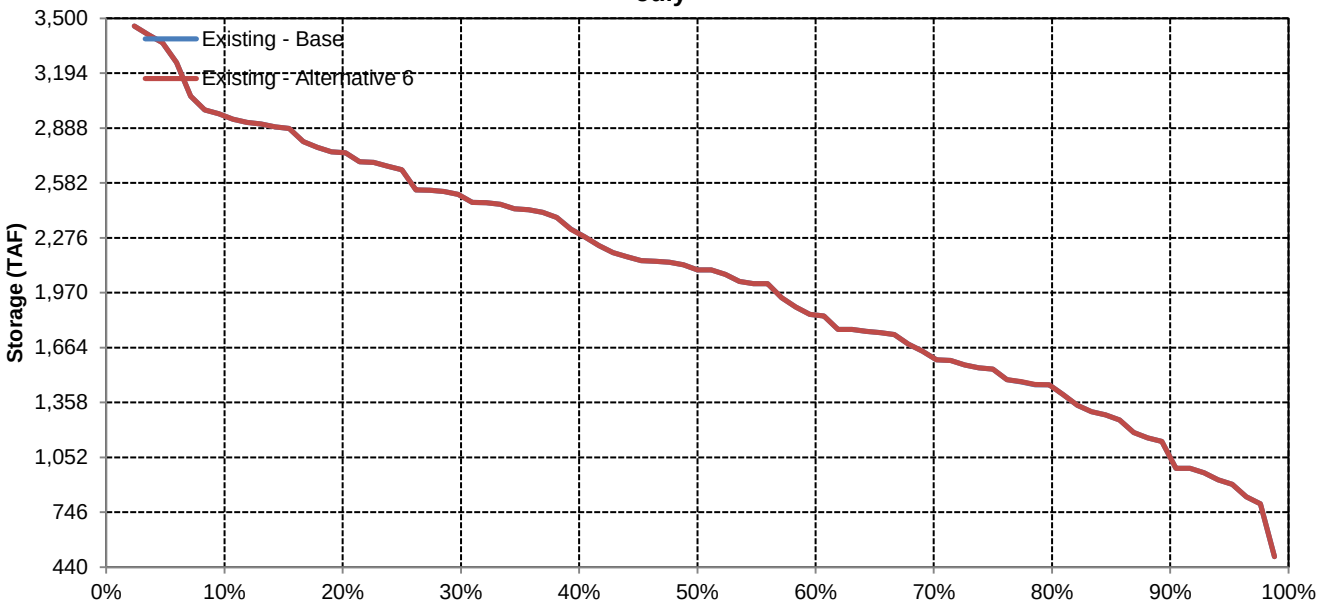


Oroville Reservoir

June

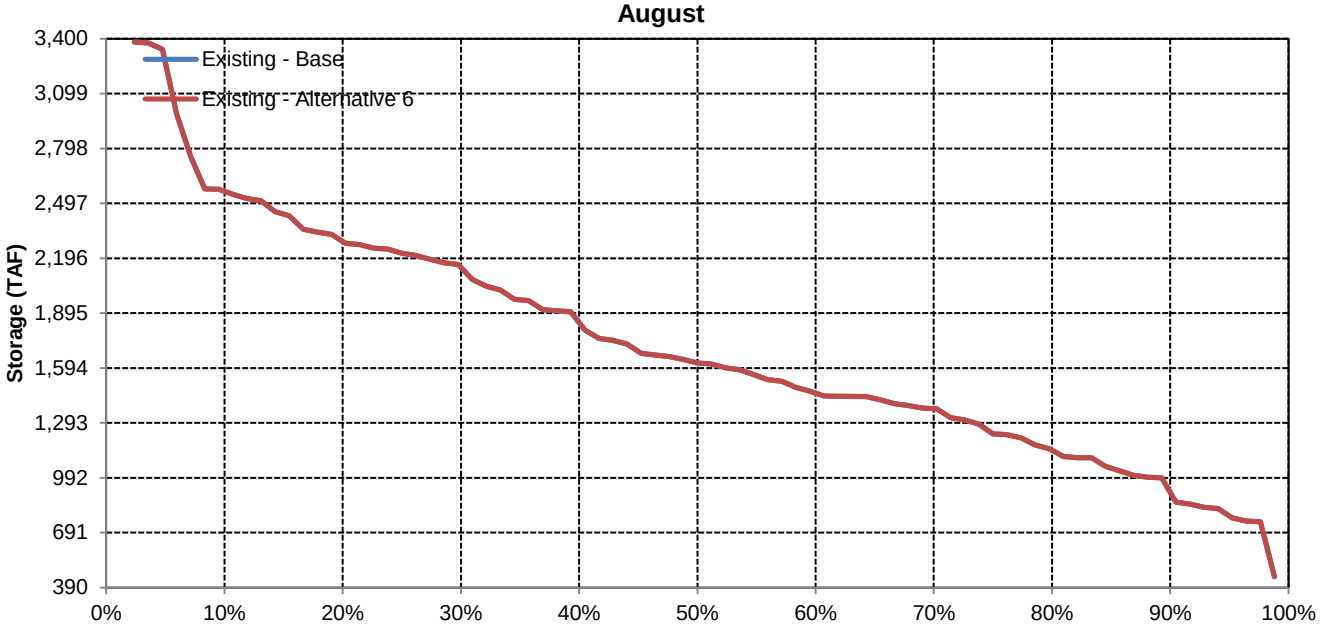


July

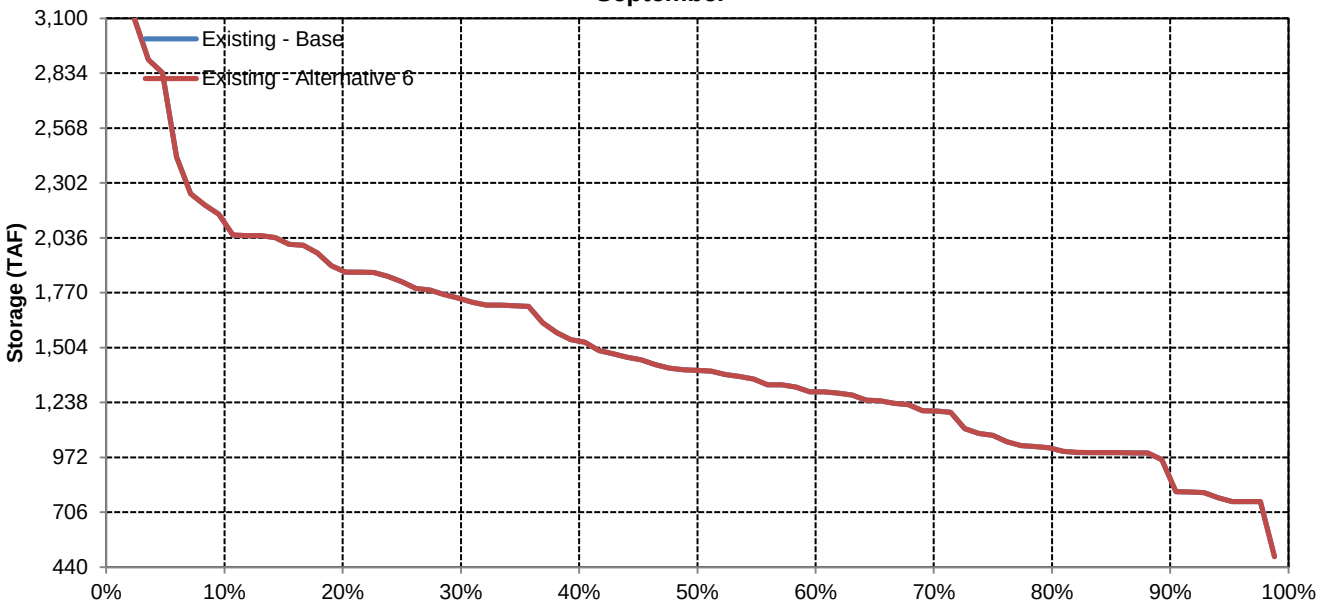


Oroville Reservoir

August



September



Long-Term and Water Year-Type Average of Folsom Reservoir Under Existing - Base and Existing - Alternative 6

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	391	398	446	474	495	597	712	766	699	522	477	427
Existing - Alternative 6	391	398	446	474	495	597	712	766	699	522	477	427
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	405	431	511	520	508	626	766	897	851	676	622	507
Existing - Alternative 6	405	431	511	520	508	626	766	897	851	676	622	507
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	406	399	470	532	548	643	777	842	775	540	504	455
Existing - Alternative 6	406	399	470	532	548	643	777	842	775	540	504	455
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	397	414	447	500	536	627	774	792	716	480	445	433
Existing - Alternative 6	397	414	447	500	536	627	774	792	716	480	445	433
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	365	367	398	418	479	593	688	698	596	438	387	376
Existing - Alternative 6	365	367	398	418	479	593	688	698	596	438	388	376
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	372	347	345	357	380	453	480	471	418	351	313	291
Existing - Alternative 6	372	347	345	357	380	453	480	471	418	351	313	291
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Folsom Reservoir

Existing - Base

	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	387	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 6

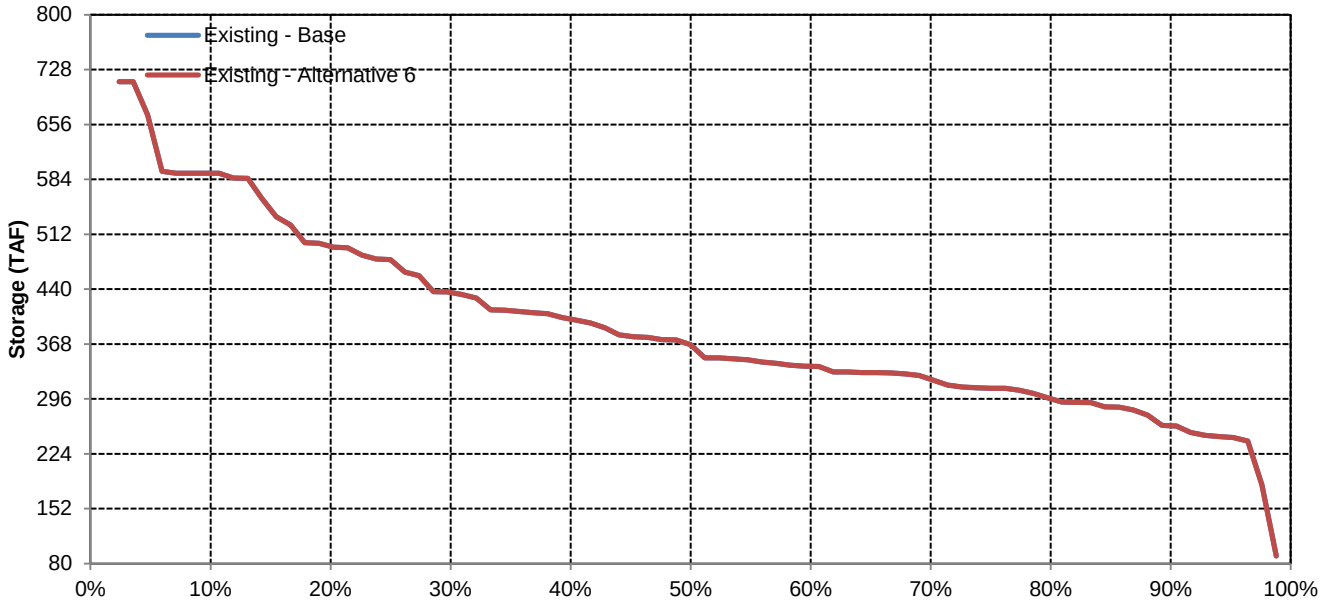
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	590	560	567	567	567	662	792	967	967	815	752	618
20%	495	499	567	567	567	658	792	967	877	709	667	545
30%	433	453	565	566	565	656	792	903	826	590	536	487
40%	399	419	525	557	558	651	792	803	723	530	478	439
50%	358	395	444	544	552	641	792	769	703	474	425	401
60%	339	354	413	474	518	625	758	752	677	438	396	382
70%	320	335	363	427	458	610	725	727	608	405	380	358
80%	295	300	323	365	416	566	609	626	523	374	338	318
90%	261	273	294	284	323	460	479	484	429	331	306	273
Long Term												
Full Simulation Period	391	398	446	474	495	597	712	766	699	522	477	427
Water Year Types												
Wet	405	431	511	520	508	626	766	897	851	676	622	507
Above Normal	406	399	470	532	548	643	777	842	775	540	504	455
Below Normal	397	414	447	500	536	627	774	792	716	480	445	433
Dry	365	367	398	418	479	593	688	698	596	438	388	376
Critical	372	347	345	357	380	453	480	471	418	351	313	291

Existing - Alternative 6 Minus Existing - Base

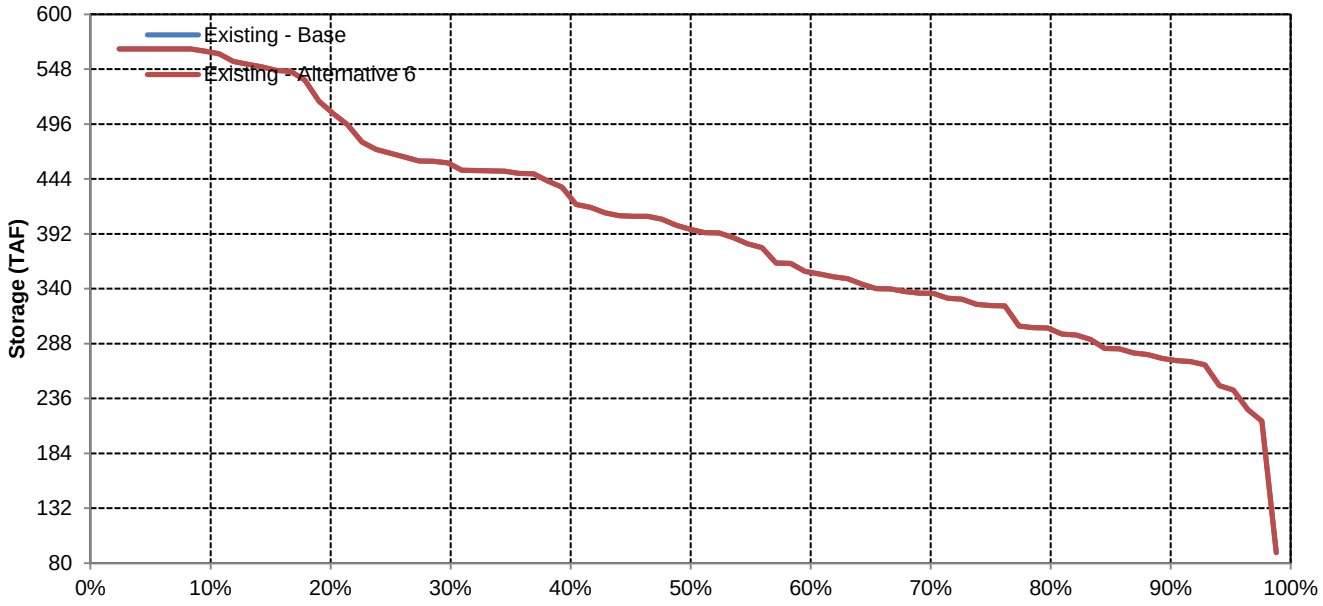
	End-of-Month Storage (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

Folsom Reservoir

October

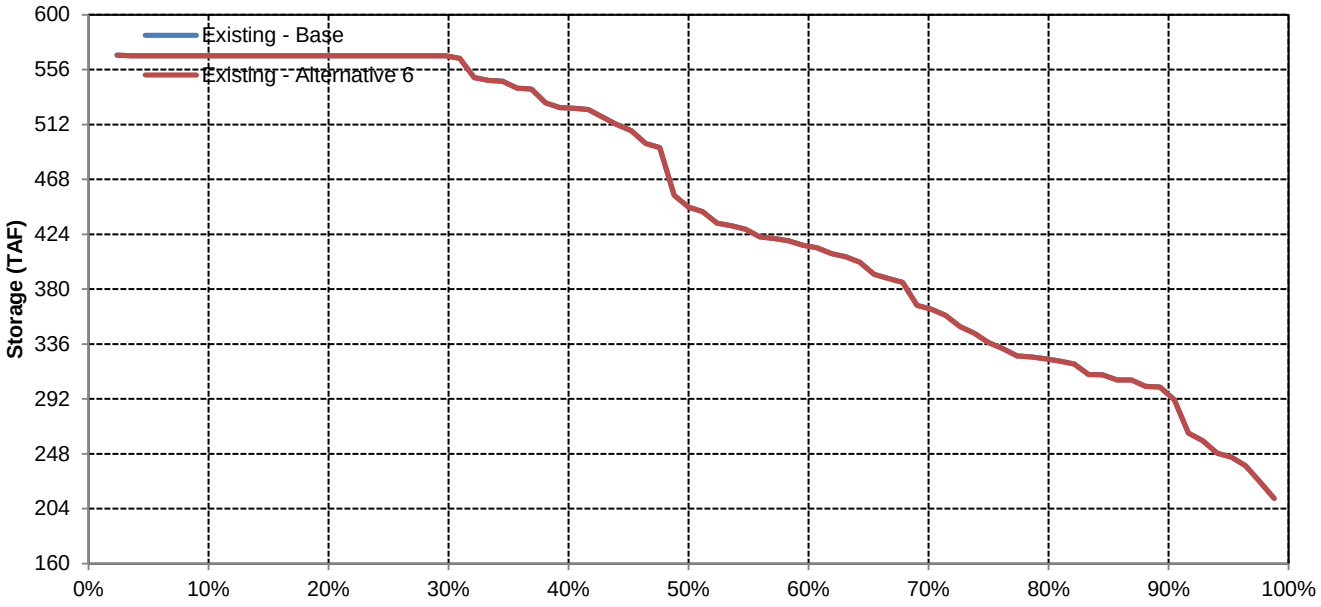


November

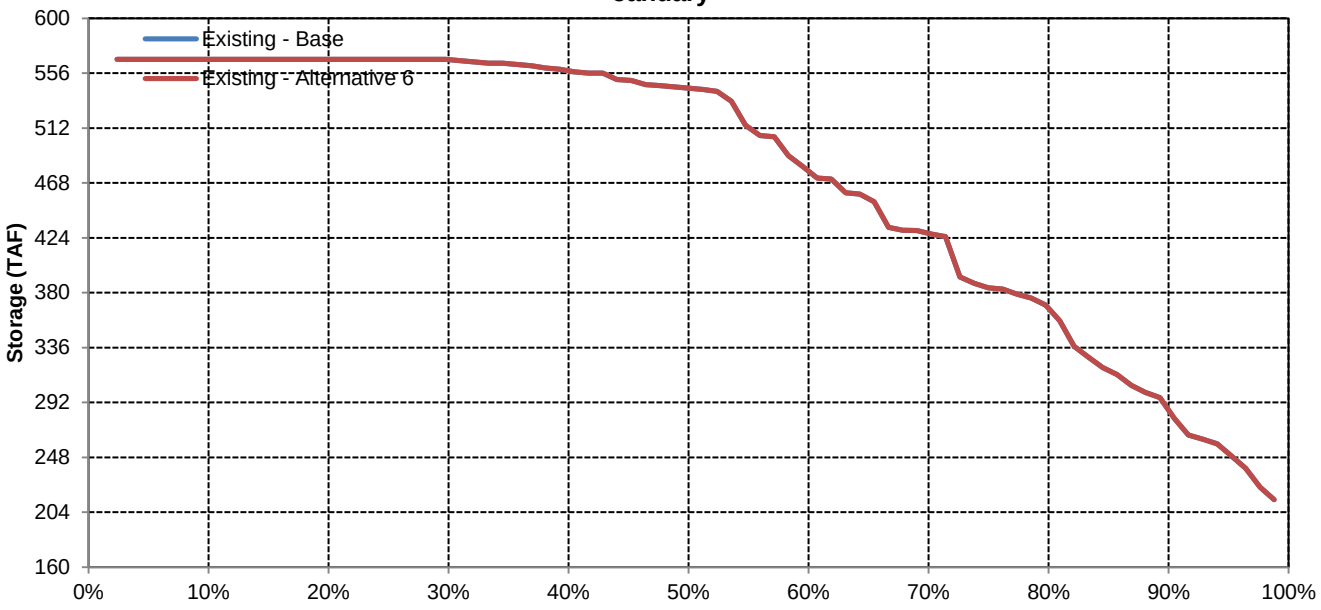


Folsom Reservoir

December

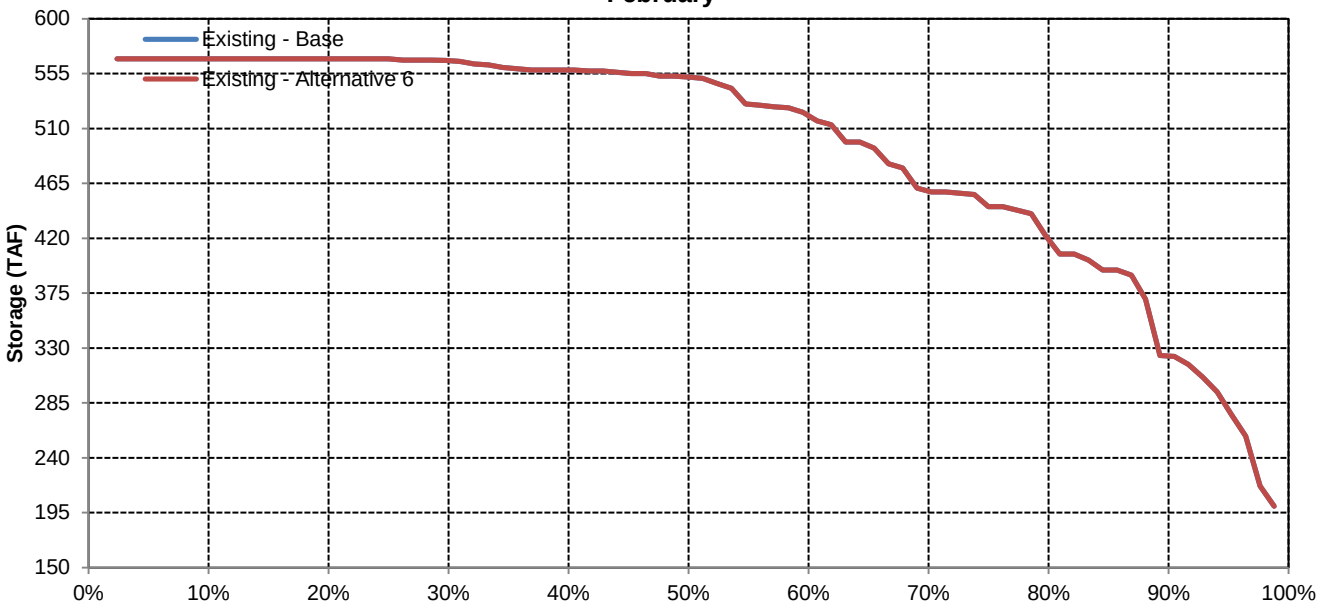


January

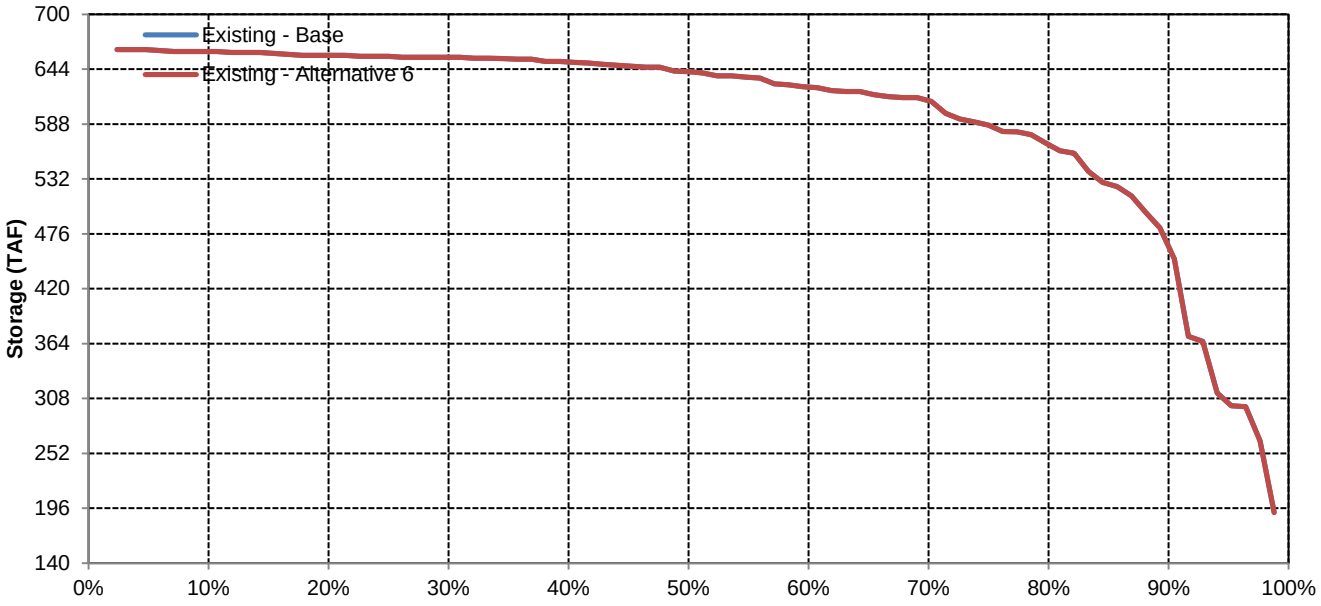


Folsom Reservoir

February

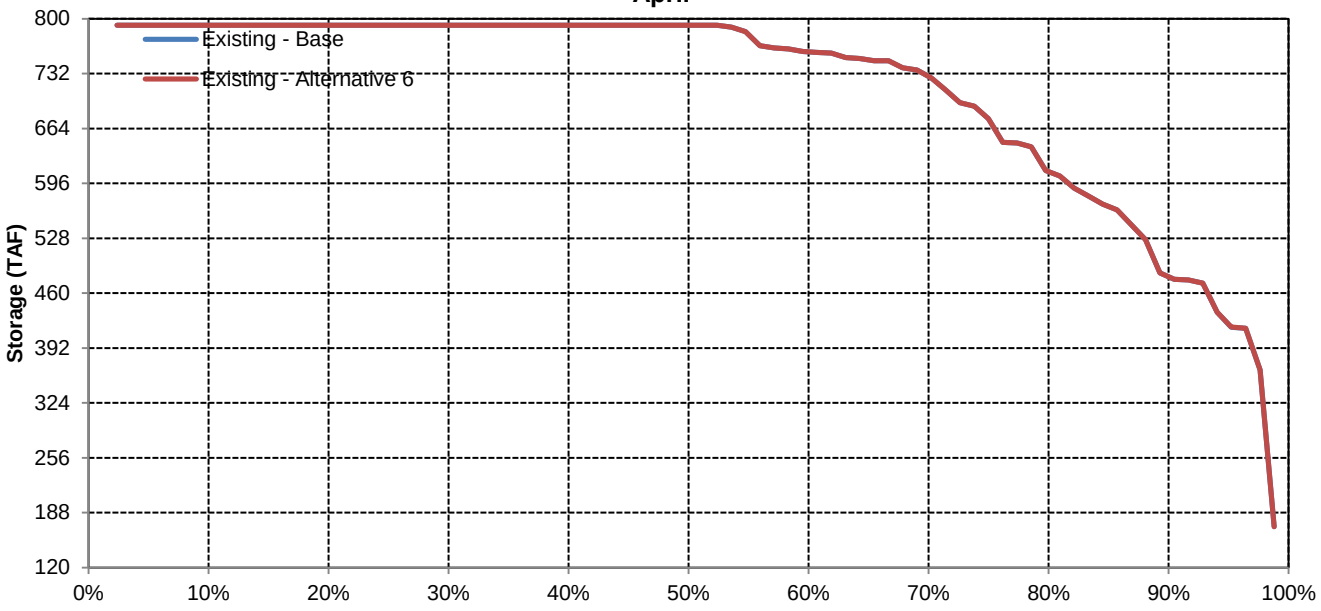


March

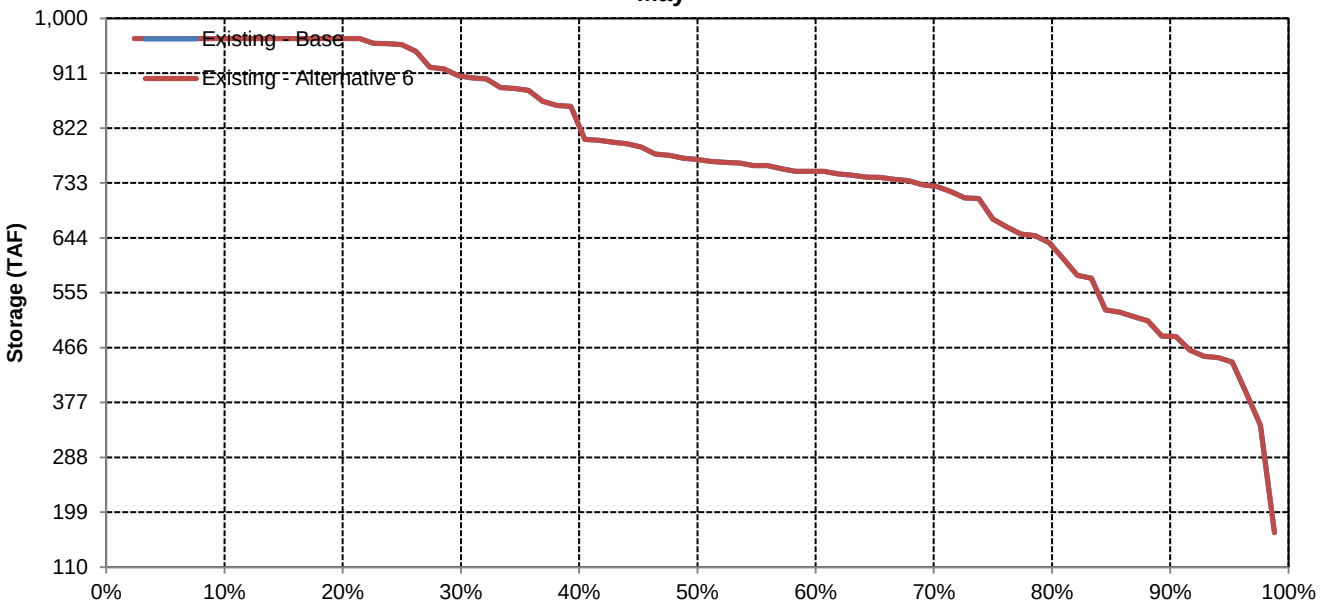


Folsom Reservoir

April

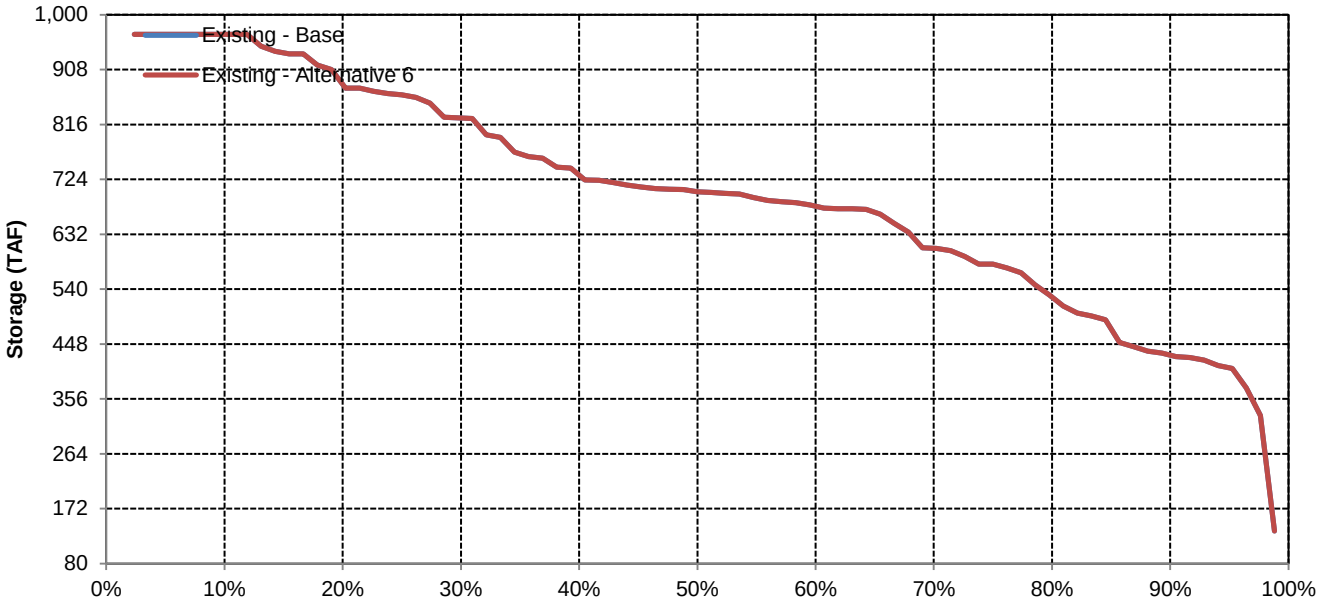


May

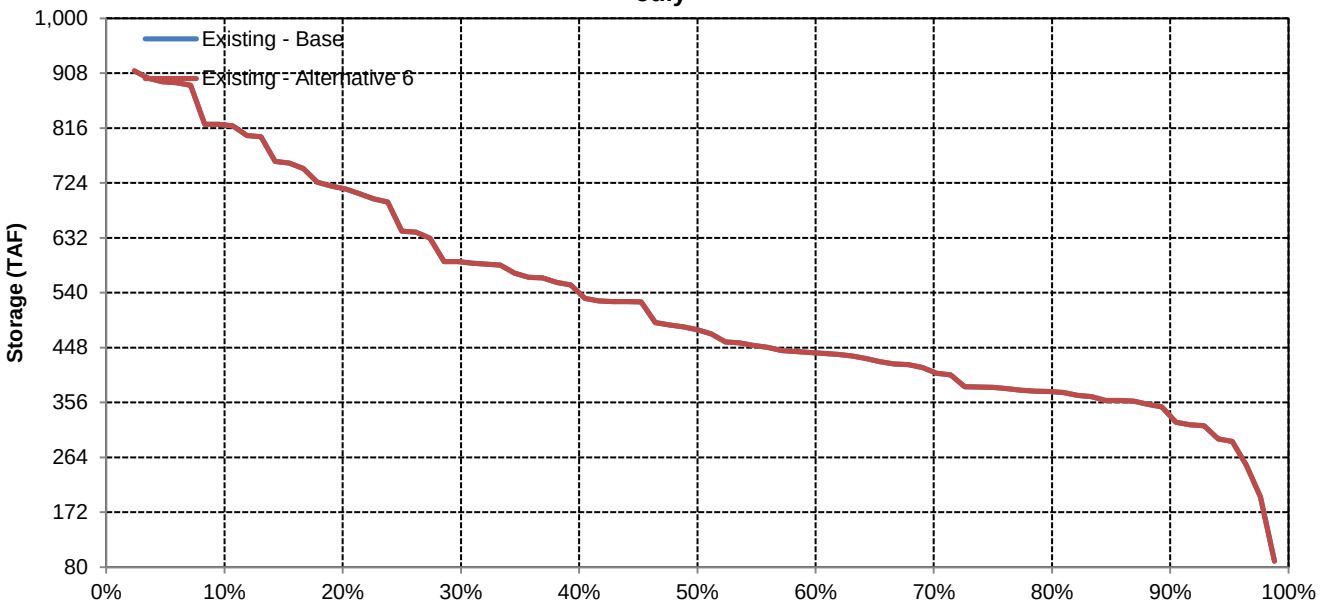


Folsom Reservoir

June

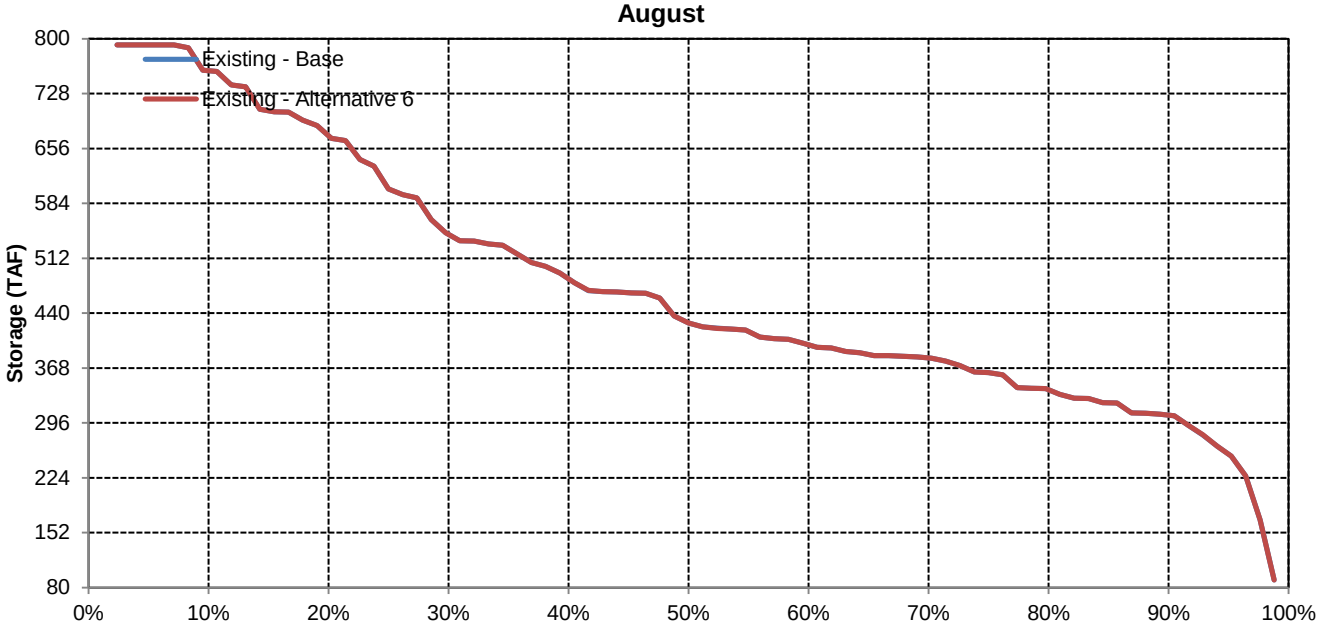


July

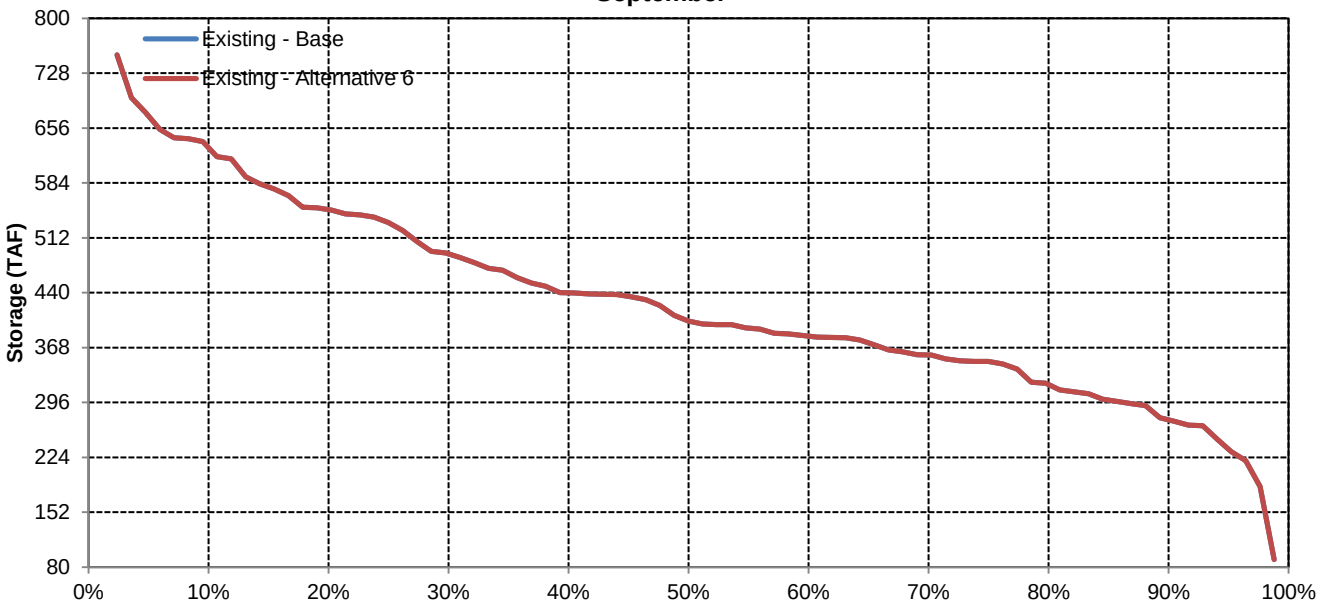


Folsom Reservoir

August



September



Long-Term and Water Year-Type Average of CVP San Luis Reservoir Under Existing - Base and Existing - Alternative 6

	Average Storage (TAF)											
Analysis Period	**October**	**November**	**December**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**
						Long-Term						
Full Simulation Period												
Existing - Base	217	330	493	616	709	777	712	577	404	261	171	178
Existing - Alternative 6	217	330	493	616	709	777	712	577	404	261	171	178
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
						Water Year-Types						
Wet												
Existing - Base	230	346	525	677	824	925	859	729	581	362	252	241
Existing - Alternative 6	230	346	525	677	824	925	859	729	581	362	252	241
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal												
Existing - Base	231	375	535	653	766	876	790	630	437	201	133	128
Existing - Alternative 6	231	375	535	653	766	876	790	630	437	201	133	128
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal												
Existing - Base	227	343	526	627	701	758	697	561	373	276	187	214
Existing - Alternative 6	227	343	526	627	701	758	697	561	373	276	187	214
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dry												
Existing - Base	183	268	424	532	582	636	573	429	249	184	96	121
Existing - Alternative 6	183	268	424	532	582	636	573	429	249	184	96	121
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Critical												
Existing - Base	208	316	428	546	591	584	532	427	251	194	118	124
Existing - Alternative 6	208	316	428	546	591	584	532	427	251	194	118	124
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%