

# Appendix AB-I, Old and Middle River Flow Management

## **Attachment I.2 Salvage Density Model Loss Simulation**

### **I.2.1 Model Overview**

The salvage-density method is a model of entrainment into the south Delta facilities as a function of flow based on historical salvage data. The results are a quantitative analysis of entrainment differences between operating scenarios (including the Proposed Action). The method uses data from 2009 – 2022, reflective of current observed loss of salmonids at the CVP and SWP collection facilities and export rates. This period represents conditions under the 2009 Biological Opinion and conditions under the 2019 Biological Opinion.

### **I.2.2 Model Development**

#### **I.2.2.1 Methods**

Data were downloaded, hosted online at <https://apps.wildlife.ca.gov/Salvage>. Salvage from water years 2009 - 2022 were included in the analysis. These years were chosen as representative of recent salvage patterns and the water year type was known. Juvenile salmonids with clipped and unclipped adipose fins were included. Together, clipped and unclipped fish represent the hatchery-origin and wild-origin portions of each Evolutionary Significant Unit (ESU). Daily loss density (fish per thousand acre-feet of exported water) for juvenile salmonids was independently calculated for the Central Valley Project and State Water Project Delta export facilities.

The daily loss density values for each month, export facility, and water year type were multiplied by the CalSim-modeled exports (1922 – 2021, CalSim3) for the same month for all the water years of that water-year type for the modeled scenarios to create predictions. The following scenarios were analyzed: Exploratory 1 (EXP1), Exploratory 3 (EXP3), No Action Alternative (NAA), Alternative 1 (Alt1), Alternative 2 with Temporary Urgency Change Petitions (TUCPs) without Voluntary Agreements (VAs), Alternative 2 without TUCPs without VAs, Alternative 2 without TUCPs with Delta VA, Alternative 2 without TUCPs with systemwide VAs, Alternative 3 (Alt3), and Alternative 4 (Alt4). Results from all scenarios are presented. For the purposes of the Biological Assessment no comparisons were made, for the purposes of the Environmental Impact Statement comparisons were made for all alternatives with NAA. Absolute and percentage values are rounded. Alternative 2 is the Proposed Action.

### **I.2.2.2 Assumptions / Uncertainty**

Salvage from 2009 - 2022 is assumed to be representative of recent salvage patterns. There were no above normal water year types 2009-2022, so wet was used for above normal. Both clipped and unclipped juvenile salmonids were included in the salvage record assumed to be representative of the ESU. The salvage-density method provides outputs of fish lost but should not be treated as predictions of future entrainment. Results should be interpreted as differences between scenarios weighted by historical loss and should be used to compare scenarios. The use of expanded salvage estimates has a known associated statistical error caused by the expansion of subsamples. This statistical error has not been accounted for in the current salvage-density method though this is consistent with analyses using these data. The method assumes a linear relationship between entrainment and export flows due to a lack of information on how salvage would increase with increasing flows. The method does not account for spatial distribution of fish populations. Juvenile Chinook were assigned a race using length at date (LAD) method. There is a large overlap in size distributions among races which can lead to false race assignments and LAD has been shown to be inaccurate for both winter-run and spring-run Chinook salmon when compared with genetic identification assignment. Salvage by race should be interpreted with caution. Additionally, the salvage density model was run using juvenile Chinook genetically identified as winter-run.

### **I.2.2.3 Code and Data Repository**

Salvage inputs: Salvage data available online at <https://apps.wildlife.ca.gov/Salvage>.

Exports inputs: CalSim modeled exports available from Reclamation upon request.

Analysis files: from Reclamation upon request.

## **I.2.3 Results**

Results are provided by Delta pumping facility (Banks Pumping Plant, Jones Pumping Plant) by species (LAD Winter-Run Chinook Salmon, Genetic Winter-Run Chinook Salmon, LAD Spring-Run Chinook Salmon, Steelhead) by water year type in the following tables for the Biological Assessment: LAD winter-run Chinook salmon at SWP Banks (Table I.2-1) and CVP Jones (Table I.2-3), Genetic winter-run Chinook salmon at SWP Banks (Table I.2-5) and CVP Jones (Table I.2-7), LAD spring-run Chinook salmon at SWP Banks (Table I.2-9) and CVP Jones (Table I.2-11), Steelhead at SWP Banks (Table I.2-13) and CVP Jones (Table I.2-15), Green sturgeon at SWP Banks (Table I.2-21) and CVP Jones (Table I.2-23).

Results are provided by Delta pumping facility by species in the following tables for all alternatives and the NAA LAD winter-run Chinook salmon at SWP (Table I.2-2) and CVP (Table I.2-4), Genetic winter-run Chinook salmon at SWP (Table I.2-6) and CVP (Table I.2-8), LAD spring-run Chinook salmon at SWP (Table I.2-10) and CVP (Table I.2-12), steelhead at SWP (Table I.2-14) and CVP (Table I.2-16), fall-run Chinook salmon at SWP (Table I.2-17) and CVP (Table I.2-18), late fall-run Chinook salmon at SWP (Table I.2-19) and CVP (Table I.2-20), green sturgeon at SWP (Table I.2-22) and CVP (Table I.2-24), American shad at SWP (Table I.2-25) and CVP (Table I.2-26), Hardhead at SWP (Table I.2-27) and CVP (Table I.2-28), Pacific

Lamprey at SWP (Table I.2-29) and CVP (Table I.2-30), River Lamprey at SWP (Table I.2-31) and CVP (Table I.2-32), Largemouth Bass at SWP (Table I.2-35) and CVP (Table I.2-36), Sacramento splittail at SWP (Table I.2-37) and CVP (Table I.2-38), Smallmouth Bass at SWP (Table I.2-39) and CVP (Table I.2-40), Spotted Bass at SWP (Table I.2-41) and CVP (Table I.2-42), Striped Bass at SWP (Table I.2-43) and CVP (Table I.2-44), White Sturgeon at SWP (Table I.2-45) and SWP (Table I.2-46), California Roach at SWP (Table I.2-47) and CVP (Table I.2-48), Threadfin shad at SWP (Table I.2-49) and CVP (Table I.2-50), Hitch at SWP (Table I.2-51) and CVP (0), Starry Flounder at SWP (Table I.2-51) and CVP (Table I.2-52).

### **I.2.3.1 LAD Winter-run Chinook Salmon**

The mean predicted loss of length at date (LAD) winter-run Chinook salmon at Banks from the salvage density model calculated across all water year types for each month and all alternatives, has a wide range. The greatest predicted loss of LAD winter-run Chinook salmon at Banks occurred in March followed by February in wet and above normal water year types. In below normal water year types, depending on the component of Alternative 2, the greatest predicted loss occurred in February or March. In dry water year types, the greatest predicted loss of LAD winter-run Chinook salmon at Banks occurred in March followed by December. In critically dry water year types, the greatest loss of LAD winter-run Chinook salmon at Banks occurred in March followed by April. The range of mean predicted loss of LAD winter-run Chinook salmon at Banks for the four components of Alternative 2 for March ranged from 1,414 (Alternative 2 without TUCP no VAs) to 1,362 (Alternative 2 without TUCP with Systemwide VAs) in a wet water year type to from 41 (Alternative 2 with TUCP no VAs) to 34 (Alternative 2 without TUCP no VAs) in a critically dry water year type (Table I.2-1). Alternative 1 had the greatest predicted loss of LAD winter-run Chinook salmon at Banks of all alternatives in all water year types and the greatest predicted loss in March followed by February in all water year types. Alternative 1 predicted loss ranged from 1,707 to 49 in March of a wet and critically dry water year type, respectively (Table I.2-2). Alternative 3 had the least predicted loss of LAD winter-run Chinook salmon at Banks of all alternatives in wet and above normal water year types, and the greatest predicted loss in March followed by February in all water year types. Alternative 3 predicted loss ranged from 768 to 49 in March of a below normal and critically dry water year type, respectively (Table I.2-2). Alternative 4 has similar predicted loss of LAD winter-run Chinook salmon at Banks to Alternative 2 with TUCP no VAs and Alternative 2 without TUCP no VAs. The greatest predicted loss under Alternative 4 occurred in March followed by February in all water year types. Alternative 4 predicted loss ranged from 1,483 to 44 in March of wet and critically dry water year types, respectively (Table I.2-2). The predicted loss for LAD winter-run Chinook Salmon at Banks for the No Action Alternative was similar to all components of Alternative 2 (with TUCP no VAs, without TUCP no VAs, Delta VAs, and systemwide VAs) for all water year types. In a wet year type, the NAA had less predicted loss than all the other alternatives, except for Alternative 3. For above normal and below normal water year types, the NAA had higher predicted loss than all other alternatives, except for Alternative 1. For dry and critically dry water year types, the NAA had higher predicted loss than all components of Alternative 2, yet had less predicted loss than Alternatives 1, 3, and 4. The NAA had the greatest predicted loss occurring in March, followed by February for all water year types. The NAA had a predicted loss in March that ranged from 1,322 to 43 of wet and critically dry water year types, respectively (Table I.2-2). The values from the exploratory modeling scenarios (EXP1 and

EXP3) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of length at date (LAD) winter-run Chinook salmon at Jones from the salvage density model calculated across all water year types for each month and all alternatives, has a wide range, though less wide than predictions at Banks. The greatest predicted loss of LAD winter-run Chinook salmon at Jones occurred in March followed by February in wet and above normal water year types among components of Alternative 2. In below normal water year types, depending on the component of Alternative 2, the greatest predicted loss occurred in February or March. In dry water year types, the greatest predicted loss of LAD winter-run Chinook salmon at Jones occurred in March followed by January and February (loss predictions from all versions of Alternative 2 are within a few fish). In critically dry water year types, the greatest loss of LAD winter-run Chinook salmon at Jones occurred in March followed by January. The range of mean predicted loss of LAD winter-run Chinook salmon at Jones for the four versions of Alternative 2 for March ranged from 263 (Alternative 2 without TUCP no VAs) to 162 (Alternative 2 with without TUCP Systemwide VAs) in a below normal water year type to from 24 (Alternative 2 with TUCP no VAs) to 20 (Alternative 2 without TUCP with Delta VA, Alternative 2 without TUCP with Systemwide VAs) in a critically dry water year type (Table I.2-3). Alternative 1 had the greatest predicted loss of LAD winter-run Chinook salmon at Jones in above normal, below normal, and dry water year types and the greatest predicted loss in March followed by February in wet, above normal, and below normal water year types. Alternative 1 predicted loss ranged from 296 to 22 in March of a below normal and critically dry water year type, respectively (Table I.2-2). Alternative 3 had the least predicted loss of LAD winter-run Chinook salmon at Jones of all alternatives in wet, above normal, and dry water year types, and the greatest predicted loss occurred in all but critically dry water year types. Alternative 3 predicted loss ranged from 170 to 8 in March of a below normal and critically dry water year type, respectively (Table I.2-2). Alternative 4 has similar predicted loss of LAD winter-run Chinook salmon at Jones to Alternative 2 with TUCP no VAs and Alternative 2 without TUCP no VAs. The greatest predicted loss under Alternative 4 occurred in March followed by February in all but critically dry water year types. Alternative 4 predicted loss ranged from 256 to 25 in March of a below normal and critically dry water year type, respectively (Table I.2-2). The predicted loss for LAD winter-run Chinook Salmon at Jones for the No Action Alternative was similar to all versions of Alternative 2 (with TUCP no VAs, without TUCP no VAs, Delta VAs, and systemwide VAs) for all water year types. In a wet year type, the NAA performed better than all the other alternatives, except for Alternative 3. For above normal and below normal water year types, the NAA had lower loss than all other alternatives, except for Alternative 3, Alternatives 2 with Delta VAs and Alternative 2 with systemwide VAs. For the dry year type the NAA had higher loss than all other alternatives, except for Alternative 1. For the critically dry year type the NAA had higher loss than all other alternatives. The No Action Alternative had the greatest predicted loss occurring in March, followed by February for all water year types. The NAA had a predicted loss in March that ranged from 251 to 26 of below normal and critically dry water year types, respectively (Table I.2-4). The values from the exploratory modeling scenarios (EXP1 and EXP3) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The months of highest predicted winter-run Chinook loss at the facilities (both LAD and genetic) temporally coincides with when the largest proportion of the juvenile winter-run Chinook salmon

population is expected to be in the Delta. Generally, across all water year types, combined monthly OMR flows become increasingly more positive from November to March through late-fall and winter into spring (Appendix AB-Chapter 4, Figure 66.) Monthly Sacramento River flows below Keswick Dam, across all water year types, increase across the same months and seasons (Appendix AB-Chapter 4, Figure 3). This increase of flows cues juveniles to outmigrate from the upper Sacramento River through the mainstem. Fish are present in the South Delta if they become entrained into the Central and Interior Delta through routes like Georgiana Slough or the Delta Cross Channel.

### **I.2.3.2 Genetic Winter-run Chinook Salmon**

The mean predicted loss of genetic winter-run Chinook salmon at Banks from the salvage density model calculated across all water year types for each month and all alternatives, has a wide range. The greatest predicted loss of genetic winter-run Chinook salmon at Banks occurred in March followed by February in wet and below normal water year types. In the above normal water year type, the greatest predicted loss also occurred in March followed by February. In the dry water year type, the greatest predicted loss of genetic winter-run Chinook salmon at Banks occurred in March, followed by April, with no loss occurring in any other months. Similarly, in critically dry water year types, the greatest loss of genetic winter-run Chinook salmon at Banks occurred in April followed by March, but only by a very small margin, with no loss occurring in any other months. The range of mean predicted loss of genetic winter-run Chinook salmon at Banks for all alternatives in March ranged from 807 (Alternative 1) to 288 (Alternative 2 with Delta VAs) in a below normal water year type to from 7 (Alternative 1, and Alternative 4) to 3 (Alternative 2 without TUCP no VAs, Alternative 2 Delta VAs, and Alternative 2 systemwide VAs) in a critically dry water year type (Table I.2-6). Alternative 1 had the greatest predicted loss of genetic winter-run Chinook salmon at Banks of all alternatives with the greatest predicted loss in March followed by February for wet, above normal, and below normal water year types. Similarly, Alternative 1 had the highest predicted loss in dry, and critically dry water year types, but the greatest loss occurred in March followed by April for the dry year type, and the greatest loss occurred in April followed by March for the critically dry water year type. Alternative 4 also had the same predicted loss for genetic winter-run Chinook salmon at Banks for the critically dry water year type, with the greatest loss occurring in April followed by March. Alternative 1 predicted loss ranged from 807 to 5 in March of a below normal and critically dry water year type, respectively (Table I.2-6). Alternative 3 had the least predicted loss of genetic winter-run Chinook salmon at Banks of all alternatives in wet and above normal water year types, and the greatest predicted loss occurred in March followed by February. Alternative 3 predicted loss ranged from 290 to 4 in March of a above normal and critically dry water year type, respectively (Table I.2-6). Alternative 4 has similar predicted loss of genetic winter-run Chinook salmon at Banks to Alternative 2 with TUCP no VAs and Alternative 2 without TUCP no VAs. The greatest predicted loss under Alternative 4 occurred in March followed by February in wet, above normal, and below normal water year types. Alternative 4 predicted loss ranged from 613 to 4 in March of wet and critically dry water year types, respectively (Table I.2-6). The predicted loss for genetic winter-run Chinook Salmon at Banks for the NAA was similar to all components of Alternative 2 (with TUCP no VAs, without TUCP no VAs, Delta VAs, and systemwide VAs), as well as Alternative 4 for all water year types. In a wet year type, the NAA was slightly lower than all the other alternatives, except for Alternative 3. For the above normal, and below normal water year type, the No Action Alternative had higher loss than all other alternatives. In the dry

water year type the NAA had higher loss than all other alternatives in March but lower loss than every alternative besides Alternative 3 in April. In the critically dry water year type, the predicted loss of genetic winter-run Chinook salmon at Banks for the NAA was slightly higher than all components of Alternative 2, except for Alternative 2 with TUCP no VAs, but only for March. In April of a critically dry water year, the NAA had the lowest predicted loss of genetic winter-run Chinook salmon. The NAA had a predicted loss in March that ranged from 547 to 4 of wet and critically dry water year types, respectively (Table I.2-6). Values from the exploratory modeling scenarios (EXP1 and EXP3) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero

The mean predicted loss of genetic winter-run Chinook salmon at Jones from the salvage density model calculated across all water year types for each month and all alternatives, has a wide range. The greatest predicted loss of genetic winter-run Chinook salmon at Jones occurred in March followed by February in above normal and below normal water year types. In the wet water year type, the greatest predicted loss also occurred in March followed by February. In the dry water year type, the greatest predicted loss of genetic winter-run Chinook salmon at Jones occurred in March, with no loss occurring in any other months. Similarly, in critically dry water year types, the greatest loss of genetic winter-run Chinook salmon at Jones occurred in March, followed by January (for all alternatives), with no loss occurring in any other months. The range of mean predicted loss of genetic winter-run Chinook salmon at Jones for all alternatives in March ranged from 112 (Alternative 1) to 61 (Alternative 2 with systemwide VAs) in a below normal water year type to from 11 (NAA) to 1 (all alternatives, except Alternative 3) in a critically dry water year type (Table I.2-8). Alternative 4 had the greatest predicted loss of genetic winter-run Chinook salmon at Jones of all alternatives with the greatest predicted loss in March followed by February for wet, and above normal water year types, with Alternative 1 having the same predicted loss in a above normal water year. The range of predicted loss for Alternative 4 in wet, and above normal water years was 63 (above normal) to 60 (wet water year). For a below normal water year the highest predicted loss for genetic winter-run Chinook salmon at Jones was for Alternative 1 with 112 for the month of March. In a dry water year type, Alternative 1 had the highest predicted loss of 48 for the month of March. For a critically dry water year type, the highest predicted loss for genetic winter-run Chinook salmon was for Alternative 4, with the NAA having the same projected loss of 11 for the month of March (Table I.2-8). Of all the alternatives Alternative 3 had the lowest predicted loss of genetic winter-run Chinook salmon in all water year types, except for the below normal water year type in the month of March. The range of predicted loss in March for Alternative 3 was 41 to 3 of above normal and critically dry water year types, respectively. For the below water year type, Alternative 2 systemwide VAs had the lowest predicted loss of 61 for the month of March (Table I.2-8). The No Action Alternative had a similar project loss for genetic winter-run Chinook salmon as the first two components of Alternative 2 (with TUCP no VAs, without TUCP no VAs). The No Action Alternative did not outperform any of the other alternatives for all water year types in the month of March. The No Action Alternative had the highest predicted loss for a critically dry water year in March, with Alternative 4 having the same predicted loss. The NAA had a predicted loss in March that ranged from 94 to 11 of below normal and critically dry water year types, respectively (Table I.2-8). Values from the exploratory modeling scenarios (EXP1 and EXP3) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.3 LAD Spring-run Chinook Salmon**

The mean predicted loss of LAD spring-run Chinook salmon at Banks from the salvage density model calculated across all water year types for each month and all alternatives has a wide range. The greatest predicted loss of spring-run Chinook salmon at Banks occurred in May followed by April in wet and above normal water year types for all alternatives. In below normal and dry water year types, the greatest predicted loss occurred in April followed by May. In critically dry years, the greatest predicted loss occurred in April followed by March. The range of mean predicted loss of LAD spring-run Chinook salmon at Banks for all the alternatives for May ranged from 43,920 (Alternative 2 with TUCP no VAs) to 8,259 (Alternative 3) in a wet water year type to from 37 (Alternative 4) to 25 (NAA) in a critically dry water year type (Table I.2-10). In the wet water year type Alternative 2 with TUCP no VAs had the highest loss out of all alternatives with a predicted loss of 43,920 in the month of May. For the above normal water year type Alternative 4 had the highest loss with a predicted loss of 22,352 for the month of May. For below normal, and the dry water year types, Alternative 1 had the highest predicted loss with the greatest loss occurred in the month of April. The range of predicted loss for spring-run Chinook salmon at Banks was from 4,989 to 3,195 for below normal and dry water year types in the month of April. For the critically dry water year type Alternative 4 had the highest predicted loss with 251 for the month of April. The lowest predicted loss for spring-run Chinook salmon at Banks for wet and above normal water year types was for Alternative 3 for the month of May. The range of predicted loss for Alternative 3 was from 8,259 to 7,051 in May for wet and above normal water year types, respectively. Alternative 3 also had the lowest loss for the dry water year type, with the highest predicted loss for all alternatives occurring in April, with 1,691 for Alternative 3 in April. For below normal, and the critically dry water year types. The No Action Alternative had the lowest loss with a range of 2,520 to 195 for the month of April (Table I.2-10). For the predicted loss of spring-run Chinook salmon at Banks the NAA had lower loss than all other alternatives except for Alternative 3 in the wet and above normal water year types for May. The NAA in the month of May had a range of 26,136 to 9,964 for wet and above normal water year types, respectively. For the dry water year type the No Action Alternative had lower loss than all alternatives except for Alternative 3, with 1,817 for the month of April (Table I.2-10). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the No Action Alternative (NAA) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of LAD spring-run Chinook salmon at Jones from the salvage density model calculated across all water year types for each month and all alternatives has a wide range, though less wide than predictions at Banks. The greatest predicted loss of spring-run Chinook salmon at Jones occurred in May followed by April in wet and above normal water year types in all alternatives. In below normal and dry water year types, the greatest predicted loss occurred in April followed by May. In critically dry years, the greatest predicted loss occurred in April followed by March. The range of mean predicted loss of LAD spring-run Chinook salmon at Jones for all the alternatives for May ranged from 6,210 (Alternative 4) to 881 (Alternative 3) in a wet water year type to 36 (all components of Alternative 2, and Alternative 3) to 7 (Alternative 3) in a critically dry water year type (Table I.2-12). For the wet water year type Alternative 4 had the highest predicted loss for LAD spring-run Chinook salmon at Jones, with 6,210 in May. For the above normal water year type Alternative 1 had the highest predicted loss in May with 5,359. Similarly Alternative 1 also had the highest loss for the below normal, and dry water year types

but only in April, the month with the highest predicted loss for all alternatives. Alternative 1 had a range of mean predicted loss of LAD spring-run Chinook salmon of 2,473 to 1,742 for the below normal and dry water year types, respectively. In the critically dry water year type Alternative 2 without TUCP and no VAs had higher loss with 162 in May (Table I.2-12). Alternative 3 had the lowest predicted loss for LAD spring-run Chinook salmon at Jones for all water year types. The range of mean predicted loss for Alternative 3 was 881 to 7 during the month of May for a wet, and a critically dry water year type, respectively. For the month of April, the range of predicted loss for Alternative 3 was 362 to 33 for a wet, and a critically dry water year type, respectively (Table I.2-12). The NAA performed similarly to the various components of Alternative 2 in all water year types during the months of April and May. The NAA had lower loss by a slight margin compared to all alternatives except Alternative 3 for a wet water year type for the month of May with 6,092. The range of predicted loss for LAD spring-run Chinook salmon at Jones for the NAA was 6,092 to 4,899 in May for a wet, and a above normal water year, respectively. For the dry and critically dry water year types during the month with the highest predicted loss (for all alternatives) in April, the NAA had lower loss than all alternatives, except for Alternative 3. The range of mean predicted loss for LAD spring-run Chinook salmon was 1,593 to 126 during the month of April, for the dry and critically dry water year, respectively. During a below normal water year type the NAA had a higher predicted loss than Alternative 3, and two of the components of Alternative 2 (Delta VAs, and systemwide VAs) with 2,198 in April (Table I.2-12). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the No Action Alternative (NAA) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The months of highest predicted spring-run Chinook loss at the facilities temporally coincides with when the largest proportion of the juvenile spring-run Chinook salmon population is expected to be in the Delta. Generally, across all water year types, combined monthly OMR flows become slightly more positive or consistent from March through May (Appendix AB-Chapter 4, Figure 66). Monthly Sacramento River flows below Keswick Dam, across all water year types, decreases from February through April, beginning to increase in May through the summer months (Appendix AB-Chapter 4, Figure 3). This increase of flows cues juveniles to outmigrate from the upper Sacramento River through the mainstem. Fish are present in the South Delta if they become entrained into the Central and Interior Delta through routes like Georgiana Slough or the Delta Cross Channel.

#### **I.2.3.4 Steelhead**

The mean predicted loss of steelhead at Banks from the salvage density model calculated across all water year types for each month and all alternatives has a wide range. The greatest predicted loss of steelhead at Banks occurred in December followed by January in wet, above normal, dry, and critically dry water year types. In below normal water year types, the greatest predicted loss occurred in January followed by February. The range of mean predicted loss of steelhead at Banks for all alternatives in December ranged from 1,182 (Alternative 1) to 376 (Alternative 3) in a wet water year type to from 138 (Alternative 1) to 56 (Alternative 3) in a below normal water year type (Table I.2-14). The predicted loss of steelhead at Banks was the highest for Alternative 1 for the wet, above normal, dry, and critically dry water year types for the month of December. The range of predicted loss for Alternative 1 was 1,182 to 339 for wet, above normal, dry, and the critically dry water year types in December. For the below normal water year type in



the month of December the highest predicted loss at Banks was for Alternative 1 with 138. The month with the highest predicted loss for steelhead during a below normal water year type was in January, with Alternative 1 performing significantly worse than all other alternatives with a predicted loss of 408 (Table I.2-14). Alternative 3 performed the best out of all alternatives in every water year type for the month of December. The range of predicted loss for steelhead at Banks for Alternative 3 was 376 to 56 for the wet, and below normal water year types, respectively. For the month of the highest predicted loss in a below normal water year, January, Alternative 3 only performed better than Alternative 1, and had a predicted loss of 165. For a below normal water year in January Alternative 4, and two components of Alternative 2 (with TUCP no VAs, without TUCP no VAs) performed the best, all having the same predicted loss of 159. The No Action Alternative in December had a predicted loss for steelhead at Banks that was greater than all alternatives, except for Alternative 1 for the wet, above normal, and below normal water year types. In the dry water year type the NAA had lower loss than all alternatives, except for Alternative 1, and two components of Alternative 2 (with TUCP no VAs, without TUCP no VAs) with a predicted loss of 690 for the month of December. In a critically dry water year type the NAA had lower loss than Alternative 1 and two components of Alternative 2 (with TUCP no VAs, without TUCP no VAs) but had a higher predicted loss for steelhead at Banks than all the other alternatives with a loss of 260 for the month of December (Table I.2-14). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the No Action Alternative (NAA) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of steelhead at Jones from the salvage density model calculated across all water year types for each month and all the alternatives has a wide range. The greatest predicted loss of steelhead at Banks occurred in December followed by January in wet, above normal, dry, and critically dry water year types. In below normal water year types, the greatest predicted loss occurred in January followed by February. The range of mean predicted loss of steelhead at Jones for all the alternatives in December ranged from 225 (Alternative 1) to 138 (Alternative 3) in the wet water year type, to from 7 (Alternative 1, NAA, and all components of Alternative 2) to 4 (Alternative 3) in a below normal water year type (Table I.2-16). The greatest predicted loss for steelhead at Jones in the month of December across all water year types was for Alternative 1. The range of mean predicted loss for Alternative 1 in December was from 225 to 7 in a wet, and below normal water year type, respectively. In the below normal water year type Alternative 1 had the same predicted loss of steelhead at Jones as the NAA, Alternative 1, and all components of Alternative 2. The lowest predicted loss of steelhead at Jones was for Alternative 3, for all water year types, in December. The range of predicted loss for Alternative 3, in the month of December was from 138 to 4 for the wet, and the below normal water year type, respectively (Table I.2-16). The NAA had similar loss as the various components of Alternative 2 for all water year types in December. The NAA had a mean predicted loss for steelhead at Jones in December, that ranged from 212 to 7 for the wet, and below normal water year types, respectively (Table I.2-16). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the No Action Alternative (NAA) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The months of highest predicted steelhead loss at the facilities temporally coincides with when the largest proportion of the juvenile steelhead population is expected to be in the Delta. Generally, across all water year types, combined monthly OMR flows become increasingly more

positive from November to February through late fall into winter (Appendix AB-Chapter 4, Figure 66.) Monthly Sacramento River flows below Keswick Dam, across all water year types, increase across the same months and seasons (Appendix AB-Chapter 4, Figure 3). Monthly Stanislaus River flows below Goodwin Dam, across all water year types, increase from November to February before decreasing in March (Appendix AB-Chapter 4, Figure 42). This increase of flows in the Sacramento River cues juveniles to outmigrate from the upper Sacramento River through the mainstem. This increase of flows in the Stanislaus River cues juveniles to outmigrate through the San Joaquin River. Fish are present in the South Delta if they become entrained into the Central and Interior Delta at junctions like Georgiana Slough or the Delta Cross Channel, from the Sacramento River route, or at junctions like Head of Old River, from the San Joaquin River route.

### **I.2.3.5 Green Sturgeon**

The mean predicted loss of Green Sturgeon at Banks from the salvage density model calculated across all water year types for each month and all alternatives has a narrow range. There is little difference in mean predicted loss of Green Sturgeon with the greatest monthly prediction of 4 (Alternative 1, below normal water year type) and the lowest prediction of 1 (March of a wet water year type, all alternatives, except Alternative 3; March of a above normal water year type, all alternatives, except Alternative 3, and two components of Alternative 2 (Delta VAs, and systemwide VAs); January of an above normal water year type, all alternatives, except Alternative 3; Table I.2-22). In the dry and critically dry water year types, the predicted loss of Green Sturgeon at Banks was zero for all alternatives, and all months. While the range of mean predicted loss of Green Sturgeon at Banks is significantly small, Alternative 3 performed the best out of all the alternatives, in all water year types that had a predicted loss greater than zero. The range of predicted loss for Alternative 3 was from 1 (below normal water year) to 0 (wet, and above normal water year types). The NAA performed similarly to all the other alternatives with a predicted loss for Green Sturgeon at Banks with a value of 1 for all water year types that had a predicted loss greater than zero (Table I.2-22). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Green Sturgeon at Jones from the salvage density model calculated across all water year types for each month and all alternatives has a narrow range. There is little difference in mean predicted loss of Green Sturgeon with the greatest monthly predictions of 7 (June of wet water year type, Alternative 1, and NAA; June of above normal water year type, Alternative 1) to 1 (June of a above normal water year type, Alternative 3; June and July of a dry water year type, all alternatives, except Alternative 3; Table I.2-24). Although the range of predicted loss for Green Sturgeon at Jones was significantly small, Alternative 1 had the highest loss with a range of 7 (June of the wet, and above normal water year types) to 1 (June and July of a dry water year type). Alternative 3 had the lowest predicted loss of all alternatives in all water year types, with a range of 4 to 1 for the month of June, in the wet, and the above normal water year types, respectively. The NAA had a similar predicted loss for Green Sturgeon at Jones as all other alternatives with a range of 7 (June of a wet water year type) to 1 (June and July for a dry water year type; Table I.2-24). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the No Action Alternative (NAA) were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

Historic occurrence of salvage of Green Sturgeon is rare. Green Sturgeon have been observed at Jones in the months of June and July and at Banks in the months of January and March. This temporal discrepancy between facilities makes it difficult to provide trends in monthly Sacramento River flows and combined OMR.

### **I.2.3.6 Hardhead**

The mean predicted loss of Hardhead at Banks from the salvage density model calculated across all water year types for each month and all alternatives has a very narrow range. Predicted loss only occurs in the month of April for wet and above normal water year types. For the critically dry water year type loss only occurs during the month of September. During below normal, and dry water year types there is no predicted loss of Hardhead at the Banks facility. The greatest monthly prediction for loss of Hardhead had a value 9 (Alternative 3, critically dry water year type) and the lowest predicted loss had a value of 1 (all alternatives except Alternative 3, for the wet water year type, and Alternative 1, Alternative 2 (with TUCP, without VAs), Alternative 2 (without TUCP, without VAs), and Alternative 3 for the below normal water year type; Table I.2-27). Of the months that had a predicted loss of Hardhead at the Banks facility Alternative 3 performed the best with a value of 0 for below normal and wet water year types. Alternative 2 (without TUCP and no VAs, and without TUCP Delta VAs) also had a value of 0, but only for the below normal water year type (Table I.2-27). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Hardhead at the Jones facility from the salvage density model calculated across all water year types for each month and all alternatives was zero. Historical data used in the salvage density model would suggest that Hardhead are not known to be present at the Jones facility during all months of the year and for every water year type (Table I.2-28).

### **I.2.3.7 Pacific Lamprey**

The mean predicted loss of Pacific Lamprey at the Banks facility from the salvage density model calculated across all water year types for each month and all alternatives was zero. Historical data used in the salvage density model would suggest that Hardhead are not known to be present at the Jones facility during all months of the year and for every water year type (Table I.2-29).

The mean predicted loss of Pacific Lamprey at the Jones facility from the salvage density model calculated across all water year types for each month and all alternatives had a wide range. The greatest predicted loss for Pacific Lamprey at Jones occurred in the month of April in the critically dry, and dry water year types. The highest predicted loss of Pacific Lamprey for wet, and above normal water year types occurred in January, and the greatest loss occurred in March for below normal water year types. The greatest predicted loss for Pacific Lamprey at Jones was for a critically dry water year type and had a value of 470 (Alternative 2 (without TUCP, no VAs)). The lowest predicted loss of Pacific Lamprey at Jones had a value of 1 (all alternatives) in critically dry, and below normal water year types (Table I.2-30). Alternative 3 performed the best in all but the wet water year type. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.8 River Lamprey**

The mean predicted loss of River Lamprey at the Banks facility from the salvage density model calculated across all water year types for each month and all alternatives was zero. Historical data used in the salvage density model would suggest that River Lamprey is not known to be present at the Banks facility during all months of the year and for every water year type (Table I.2-31).

The mean predicted loss of River Lamprey at the Jones facility generated from the salvage density model has a very narrow range. Predicted loss of River Lamprey at Jones was low for all alternatives and water year types. The mean predicted loss of River Lamprey at Jones ranged from 6 (Alternative 1, below normal water year type) to 1 (all alternatives, for wet and above normal water year types; Table I.2-32). The highest loss occurred in the month of January for all water year types, except the critically dry water year type in which the highest loss for River Lamprey occurred in February. For the months that had a predicted loss for River Lamprey at Jones, Alternative 3 performed the best, having a slightly lower predicted loss compared to all the other alternatives, for all water year types (Table I.2-32). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.9 Sacramento Splittail**

The mean predicted loss of Sacramento Splittail at Banks from the salvage density model calculated across all water year types for each month and all the alternatives has a wide range. For wet, and above normal water year types, the greatest loss for Sacramento Splittail was predicted for the month of May. The greatest predicted loss was in June, and April for dry, and below normal water year types, respectively. For critically dry water year types, the highest predicted loss of Splittail occurred in February. The range of predicted loss for Splittail at Banks ranged from 712,548 (Alternative 2 (with TUCP, no VAs)) for June of a wet water year type, to 5 (NAA) for June a critically dry water year type (Table I.2-35). Overall Alternative 3 performed better than all other alternatives for wet, above normal, and below normal water year types for the month of June. In dry and critically dry water year types the NAA performed the best in the month of June (Table I.2-35). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss for Sacramento Splittail at the Jones facility from the salvage density model calculated across all water year types for each month and all alternatives has a wide range. The highest predicted loss for Splittail at Jones occurred in the month of May for wet, above normal, and below normal water year types. The highest predicted loss of Splittail during dry and critically dry water year types occurred in June, and October, respectively. The range of predicted loss for Splittail at Jones is from 6,921,465 (Alternative 4, wet water year type) to 1 (Alternative 3, critically dry water year type) during the month of May (Table I.2-36). Overall, Alternative 3 performed substantially better than all other alternatives, and for all water year types in the month of May. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.10 White Sturgeon**

The mean predicted loss of White Sturgeon at Banks from the salvage density model calculated across all water year types for each month and all the alternatives has a narrow range. Overall predicted loss for White Sturgeon at the Banks facility was low across all alternatives and water year types. The highest predicted loss for White Sturgeon at Banks was for the month of January for wet, above normal, and below normal water year types. For dry water year types, the highest loss occurred in May. There was no predicted loss for White Sturgeon at Banks during the critically dry water year type. During the month of January, the predicted loss of White Sturgeon ranged from 10 (Alternative 1, wet water year type) to 2 (NAA, all components of Alternative 2, Alternative 3, Alternative 4, dry water year type; Table I.2-43). Alternative 3 performed the best out of all the other alternatives, at least in the wet water year type for January. Alternative 3 did not perform notably better than the other alternatives in all other water year types in the month of January (Table I.2-43). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of White Sturgeon at Jones from the salvage density model calculated across all water year types for each month and all the alternatives has a narrow range. The highest predicted loss for White Sturgeon occurred during the month of June in the wet water year type. The highest loss of White Sturgeon occurred during the month of August for the above normal water year type, and the highest loss occurred in October for the below normal water year type. Dry and critically dry water year types had no predicted loss for White Sturgeon at the Jones facility. The mean predicted loss for White Sturgeon at Jones had a range from 24 (NAA, June, wet water year type) to 1 (NAA, all components of Alternative 2, May, below normal water year type; Table I.2-44). Overall, Alternative 3 performed better than all other alternatives in water year types that had a predicted loss for White Sturgeon at Jones (Table I.2-44). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.11 California Roach**

The mean predicted loss of California Roach at the Banks facility from the salvage density model calculated across all water year types for each month and all alternatives was zero. Historical data used in the salvage density model would suggest that California Roach are not known to be present at the Banks facility during all months of the year and for every water year type (Table I.2-45).

The mean predicted loss of California Roach at the Jones facility from the salvage density model calculated across all water year types for each month and all alternatives was zero. Historical data used in the salvage density model would suggest that California Roach are not known to be present at the Jones facility during all months of the year and for every water year type (Table I.2-46).

### **I.2.3.12 Hitch**

The mean predicted loss of Hitch at the Banks facility from the salvage density model calculated across all water year types for each month and all the alternatives has a narrow range. Predicted loss of Hitch at Banks only occurs during the month of April for the wet and above normal water

year types. During below normal, and dry water year types predicted loss of hitch occurs over several months (June- November). During the critically dry water year type predicted loss for Hitch at Banks is zero across all months (Table I.2-49). The range of mean predicted loss for Hitch at the Banks facility is from 3 (all alternatives except Alternative 4, below normal water year type) to 1 (all alternatives, dry water year type) (Table I.2-49). With the very narrow range of predicted loss occurring across the model results, no alternative performed notable better or worse. Predicted loss of Hitch at Banks was closely related to water year type and month of the year. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Hitch at the Jones facility from the salvage density model calculated across all water year types for each month and all the alternatives has a narrow range. Predicted loss of Hitch at Jones only occurs during the month of April for the wet and above normal water year types. For the below normal water year type predicted loss of Hitch at Jones only occurs during the month of March. During the dry and critically dry water year types, the predicted loss of Hitch at the Jones facility is zero (Table I.2-50). The range of predicted loss of Hitch at Jones is from 3 (all alternatives except Alternative 3, wet water year type) to 1 (all alternatives, below normal water year type) (Table I.2-50). With the very narrow range of predicted loss of Hitch at Jones alternative 3 performed slightly better than all other alternatives but the difference is not substantial. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

### **I.2.3.13 Starry Flounder**

The mean predicted loss of Starry Flounder at Banks from the salvage density model calculated across all water year types for each month and all the alternatives has a wide range. Predicted loss of Starry Flounder at Banks is shown to occur from January to July, and also in December for the wet and above normal water year types. In the below normal year type predicted loss of Starry Flounder at Banks would occur from February to August, and also November. In dry and critically dry water year types predicted loss of Starry Flounder would occur only in the month of November and October, respectively (Table I.2-51). Predicted loss of Starry Flounder at Banks had a range from 128 (Alternative 1, below normal water year type) to 1 (all alternatives, critically dry water year type). Overall Alternative 3 performed better than all other alternatives for all water year types (Table I.2-51). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Starry Flounder at Jones from the salvage density model calculated across all water year types for each month and all the alternatives has a narrow range. The predicted loss for Starry Flounder at Jones occurs from June to October in the wet and above normal water year types. Predicted loss of Starry Flounder occurs from March to August for below normal water year types. Predicted loss of Starry Flounder occurs in May, and November for dry water year types, and only January, and September for the critically dry water year types (Table I.2-52). The range of mean predicted loss for Starry Flounder at Jones is from 6 (NAA, Alternative 2 w/TUCP no VAs, Alternative 2 w/o TUCP no VAs, Alternative 1, Alternative 4, dry

water year type; Table I.2-51). Alternative 3 performed slightly better than all other alternatives in all water year types, but with such a narrow range the difference is minimal. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

#### **I.2.3.14 American Shad and Threadfin Shad**

The mean predicted loss of American Shad and Threadfin Shad at the Banks facility is substantial and occurs all months of the year and in all water year types. The mean predicted loss of American Shad and Threadfin Shad has a wide range. The mean predicted loss of American Shad at Banks has a range from 139,591 (Alternative 1, above normal water year type) to 6 (NAA, Alternative 2 w/TUCP no VAs, Alternative 2 w/o TUCP no VAs, Alternative 4, critically dry water year type; Table I.2-25). The mean predicted loss for Threadfin Shad at Banks has a range from 787,307 (Alternative 2 w/o TUCP no VAs, below normal water year type) to 21 (Alternative 2 Delta VAs, dry water year types; Table I.2-47). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of American Shad and Threadfin Shad at the Jones Facility is substantial and occurs all months of the year and in all water year types. The mean predicted loss of American Shad and Threadfin Shad has a wide range. The mean predicted loss of American Shad at the Jones facility is from 114,331 (NAA, wet water year type) to 1 (NAA, critically dry water year type; Table I.2-26). The mean predicted loss of Threadfin Shad at the Jones facility is from 982,865 (Alternative 1, dry water year type) to 21 (Alternative 3, critically dry water year type' Table I.2-48). Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The consistent high level of predicted loss seen in the modeling results is likely related to the high abundance of these species in the Delta, and the ideal habitat conditions created by the pumping facilities themselves.

#### **I.2.3.15 Striped Bass and Largemouth Bass**

The mean predicted loss of Striped Bass and Largemouth Bass at the Banks facility is substantial and occurs all months of the year and in all water year types. The mean predicted loss of Striped Bass and Largemouth Bass has a wide range. The mean predicted loss of Striped Bass at Banks has a range from 186,324 (Alternative 1, above normal water year type) to 58 (NAA, critically dry water year type; Table I.2-41). The mean predicted loss of Largemouth Bass at the Banks facility has a range from 16,601 (Alternative 3, critically dry water year type) to 5 (Alternative 2 Delta VAs, Alternative 2 systemwide VAs, dry water year type; Table I.2-33). Overall Alternative 3 performed better than all other alternatives across water year types. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Striped Bass and Largemouth Bass at the Jones facility is substantial and occurs all months of the year and in all water year types. The mean predicted loss of Stiped Bass and Largemouth Bass has a wide range. The mean predicted loss of Striped Bass at Jones

has a range from 89,558 (Alternative 1, dry water year type) to 12 (Alternative 3, above normal water year type; Table I.2-42). The mean predicted loss of Largemouth Bass at Jones has a range from 57,036 (Alternative 1, dry water year type) to 33 (Alternative 3, dry water year type; Table I.2-34). Overall Alternative 3 performed better than all other alternatives across all the water year types. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The consistent high level of predicted loss seen in the modeling results is likely related to the high abundance of these species in the Delta, and the ideal habitat conditions created by the pumping facilities themselves.

#### **I.2.3.16 Spotted Bass and Smallmouth Bass**

The mean predicted loss of Spotted Bass and Smallmouth Bass at the Banks facility has a narrow range. The only predicted loss for Spotted Bass at Banks was for the below normal water year type in the month of March. The predicted loss of Spotted Bass at the Banks facility was from 3 (Alternative 3, below normal water year type) to 1 (Alternative 2 w/o TUCP no VAs, Alternative 2 Delta VAs, Alternative 2 systemwide VAs, Alternative 3, below normal water year type; Table I.2-39). Predicted loss of Smallmouth Bass occurring at the Banks facility was in the months of December through February, but also in October. There was no predicted loss for Smallmouth Bass at Banks during the critically dry water year type. The range of predicted loss for Smallmouth Bass at the Banks facility was from 10 (Alternative 1, below normal water year type) to 1 (all alternatives, above normal water year type; Table I.2-37). Overall Alternative 3 performed better than all other alternatives, but the differences in predicted loss were minimal for all alternatives and across water year types. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.

The mean predicted loss of Spotted Bass and Smallmouth Bass at the Jones facility has a narrow range. Predicted loss of Spotted Bass at Jones occurred during the months of January, February, March, April, August, November, and December. The range of mean predicted loss for Spotted Bass at the Jones facility was from 7 (all alternatives except Alternative 1, and Alternative 3, dry water year type) to 1 (all alternatives except Alternative 3, critically dry water year type; Table I.2-40). The mean predicted loss of Smallmouth Bass at Jones occurred during the months of January through May. There was no predicted loss for Smallmouth Bass at Jones during the wet, above normal, and dry water year types. The mean predicted loss of Smallmouth Bass at Jones had a range from 7 (NAA, Alternative w/ TUCP no VAs, Alternative 1, Alternative 4, below normal water year type) to 1 (all alternatives, critically dry water year type; Table I.2-38). Overall Alternative 3 performed better than all other alternatives but the differences in mean predicted loss was minimal between alternatives and water year types. Values from the exploratory modeling scenarios (EXP1 and EXP3) and the NAA were not included for consideration in the range of mean predicted salvage, exports in EXP1 and EXP3 are zero.



Table I.2-1. Loss of juvenile LAD Winter-Run Chinook salmon at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	205	202	202	202	202
Wet	Feb	0	0	595	605	606	603	604
Wet	Mar	0	0	1,322	1404	1414	1376	1362
Wet	Apr	0	0	117	136	136	125	125
Wet	May	0	0	4	6	6	6	6
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	185	181	181	181	182
AN	Jan	0	0	139	135	135	135	135
AN	Feb	0	0	402	421	413	414	406
AN	Mar	0	0	858	822	819	700	707
AN	Apr	0	0	27	75	75	40	40
AN	May	0	0	1	3	3	3	3
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	172	167	165	162	162
BN	Jan	0	0	211	204	204	205	205
BN	Feb	0	0	670	662	648	645	646
BN	Mar	0	0	862	853	808	608	630
BN	Apr	0	0	41	71	73	46	47
BN	May	0	0	13	25	26	26	26
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	4	4	4	4	4
Dry	Jan	0	0	80	72	72	72	70
Dry	Feb	0	0	82	78	78	77	77
Dry	Mar	0	0	567	542	542	447	464
Dry	Apr	0	0	18	28	28	19	19
Dry	May	0	0	1	2	2	2	1
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	94	95	95	93	90
C	Jan	0	0	2	2	2	2	2
C	Feb	0	0	12	13	11	11	11
C	Mar	0	0	43	41	34	36	37
C	Apr	0	0	11	13	12	12	13
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	7	7	7	6	7

Table I.2-2. Loss of juvenile LAD Winter-Run Chinook salmon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	205	340 (66%)	202 (-1%)	202 (-1%)	202 (-1%)	202 (-1%)	137 (-33%)	192 (-7%)
Wet	Feb	595	793 (33%)	605 (2%)	606 (2%)	603 (2%)	604 (2%)	281 (-53%)	621 (5%)
Wet	Mar	1,322	1,707 (29%)	1,404 (6%)	1,414 (7%)	1,376 (4%)	1,362 (3%)	552 (-58%)	1,483 (12%)
Wet	Apr	117	138 (18%)	136 (16%)	136 (16%)	125 (7%)	125 (7%)	41 (-65%)	134 (15%)
Wet	May	4	6 (67%)	6 (68%)	6 (68%)	6 (68%)	6 (68%)	1 (-68%)	6 (64%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	185	307 (66%)	181 (-2%)	181 (-2%)	181 (-2%)	182 (-1%)	98 (-47%)	167 (-9%)
AN	Jan	139	317 (128%)	135 (-3%)	135 (-3%)	135 (-3%)	135 (-3%)	123 (-11%)	128 (-8%)
AN	Feb	402	706 (76%)	421 (5%)	413 (3%)	414 (3%)	406 (1%)	340 (-15%)	466 (16%)
AN	Mar	858	1,618 (89%)	822 (-4%)	819 (-4%)	700 (-18%)	707 (-18%)	699 (-18%)	849 (-1%)
AN	Apr	27	83 (208%)	75 (178%)	75 (177%)	40 (49%)	40 (49%)	38 (39%)	75 (177%)
AN	May	1	3 (149%)	3 (124%)	3 (124%)	3 (96%)	3 (93%)	1 (-29%)	3 (124%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	172	278 (62%)	167 (-3%)	165 (-4%)	162 (-6%)	162 (-6%)	82 (-52%)	146 (-15%)
BN	Jan	211	525 (149%)	204 (-3%)	204 (-3%)	205 (-3%)	205 (-3%)	212 (1%)	205 (-3%)
BN	Feb	670	1,160 (73%)	662 (-1%)	648 (-3%)	645 (-4%)	646 (-4%)	586 (-13%)	748 (12%)
BN	Mar	862	1,703 (98%)	853 (-1%)	808 (-6%)	608 (-29%)	630 (-27%)	768 (-11%)	841 (-2%)
BN	Apr	41	81 (98%)	71 (74%)	73 (78%)	46 (12%)	47 (15%)	43 (5%)	71 (75%)
BN	May	13	27 (109%)	25 (94%)	26 (97%)	26 (96%)	26 (98%)	13 (0%)	25 (92%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	4	6 (34%)	4 (-5%)	4 (-3%)	4 (-2%)	4 (-8%)	2 (-45%)	3 (-22%)
Dry	Jan	80	150 (88%)	72 (-10%)	72 (-10%)	72 (-10%)	70 (-13%)	66 (-17%)	81 (1%)
Dry	Feb	82	162 (97%)	78 (-6%)	78 (-6%)	77 (-6%)	77 (-6%)	93 (13%)	93 (12%)
Dry	Mar	567	1,019 (80%)	542 (-4%)	542 (-4%)	447 (-21%)	464 (-18%)	726 (28%)	569 (0%)
Dry	Apr	18	31 (76%)	28 (59%)	28 (59%)	19 (6%)	19 (6%)	16 (-7%)	28 (60%)
Dry	May	1	2 (119%)	2 (87%)	2 (88%)	2 (63%)	1 (58%)	1 (19%)	2 (88%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	94	131 (38%)	95 (1%)	95 (0%)	93 (-2%)	90 (-5%)	47 (-51%)	82 (-14%)
C	Jan	2	4 (70%)	2 (-6%)	2 (-16%)	2 (-18%)	2 (-16%)	2 (3%)	2 (-4%)
C	Feb	12	18 (51%)	13 (6%)	11 (-11%)	11 (-12%)	11 (-13%)	15 (26%)	15 (24%)
C	Mar	43	49 (14%)	41 (-4%)	34 (-21%)	36 (-17%)	37 (-15%)	49 (13%)	44 (1%)
C	Apr	11	14 (27%)	13 (20%)	12 (12%)	12 (10%)	13 (15%)	11 (4%)	14 (29%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	7	9 (30%)	7 (3%)	7 (2%)	6 (-3%)	7 (-3%)	3 (-50%)	6 (-9%)

Table I.2-3. Loss of juvenile LAD Winter-Run Chinook salmon at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	37	37	37	37	37
Wet	Feb	0	0	56	58	58	59	59
Wet	Mar	0	0	111	119	118	113	113
Wet	Apr	0	0	3	3	3	3	3
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	53	52	52	52	53
AN	Jan	0	0	36	36	36	36	36
AN	Feb	0	0	61	62	62	62	62
AN	Mar	0	0	118	126	126	93	93
AN	Apr	0	0	3	3	3	2	2
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	43	46	46	47	47
BN	Jan	0	0	115	112	112	112	112
BN	Feb	0	0	172	166	167	166	166
BN	Mar	0	0	251	252	263	167	162
BN	Apr	0	0	45	48	47	43	43
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	1	1	1	1	1
Dry	Jan	0	0	47	45	45	45	47
Dry	Feb	0	0	47	44	44	44	45
Dry	Mar	0	0	118	117	117	94	92
Dry	Apr	0	0	5	5	5	4	4
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0



Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	9	9	9	9	9
C	Jan	0	0	13	12	13	14	13
C	Feb	0	0	2	2	2	2	2
C	Mar	0	0	26	24	22	20	20
C	Apr	0	0	2	2	3	3	3
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	4	4	4	4	4

Table I.2-4. Loss of juvenile LAD Winter-Run Chinook salmon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	37	40 (6%)	37 (0%)	37 (0%)	37 (0%)	37 (0%)	38 (2%)	37 (0%)
Wet	Feb	56	57 (3%)	58 (5%)	58 (4%)	59 (6%)	59 (6%)	57 (2%)	59 (7%)
Wet	Mar	111	112 (1%)	119 (8%)	118 (6%)	113 (2%)	113 (2%)	71 (-36%)	125 (13%)
Wet	Apr	3	3 (1%)	3 (10%)	3 (11%)	3 (-10%)	3 (-11%)	1 (-80%)	3 (12%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	53	56 (6%)	52 (-2%)	52 (-2%)	52 (-2%)	53 (-1%)	35 (-35%)	49 (-7%)
AN	Jan	36	42 (15%)	36 (-1%)	36 (-1%)	36 (-1%)	36 (-1%)	23 (-35%)	35 (-2%)
AN	Feb	61	65 (6%)	62 (2%)	62 (2%)	62 (2%)	62 (2%)	60 (-1%)	64 (5%)
AN	Mar	118	130 (11%)	126 (7%)	126 (7%)	93 (-21%)	93 (-21%)	86 (-27%)	131 (12%)
AN	Apr	3	3 (-3%)	3 (0%)	3 (0%)	2 (-33%)	2 (-33%)	0 (-85%)	3 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	43	51 (19%)	46 (8%)	46 (9%)	47 (10%)	47 (10%)	20 (-52%)	44 (3%)
BN	Jan	115	139 (20%)	112 (-3%)	112 (-3%)	112 (-3%)	112 (-3%)	51 (-56%)	112 (-3%)
BN	Feb	172	187 (8%)	166 (-4%)	167 (-3%)	166 (-3%)	166 (-4%)	101 (-41%)	175 (2%)
BN	Mar	251	296 (18%)	252 (0%)	263 (5%)	167 (-33%)	162 (-36%)	170 (-32%)	256 (2%)
BN	Apr	45	51 (13%)	48 (5%)	47 (4%)	43 (-6%)	43 (-5%)	14 (-68%)	48 (6%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	1	1 (-1%)	1 (-2%)	1 (0%)	1 (-1%)	1 (-4%)	1 (-49%)	1 (-7%)
Dry	Jan	47	54 (13%)	45 (-5%)	45 (-5%)	45 (-4%)	47 (-1%)	13 (-72%)	46 (-3%)
Dry	Feb	47	54 (15%)	44 (-8%)	44 (-8%)	44 (-8%)	45 (-4%)	28 (-41%)	49 (3%)
Dry	Mar	118	130 (10%)	117 (-1%)	117 (-1%)	94 (-21%)	92 (-22%)	68 (-42%)	117 (-1%)
Dry	Apr	5	6 (9%)	5 (-1%)	5 (-1%)	4 (-14%)	4 (-14%)	1 (-80%)	5 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	9	10 (14%)	9 (5%)	9 (1%)	9 (0%)	9 (-1%)	4 (-55%)	9 (0%)
C	Jan	13	16 (22%)	12 (-11%)	13 (-3%)	14 (1%)	13 (0%)	7 (-46%)	13 (-2%)
C	Feb	2	2 (14%)	2 (-2%)	2 (1%)	2 (-1%)	2 (-1%)	1 (-55%)	2 (7%)
C	Mar	26	22 (-14%)	24 (-8%)	22 (-16%)	20 (-21%)	20 (-21%)	8 (-69%)	25 (-3%)
C	Apr	2	3 (26%)	2 (8%)	3 (28%)	3 (28%)	3 (27%)	1 (-74%)	2 (6%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	4	5 (27%)	4 (6%)	4 (12%)	4 (16%)	4 (17%)	2 (-43%)	4 (8%)

Table I.2-5. Loss of juvenile genetic Winter-Run Chinook salmon at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	9	8	8	8	8
Wet	Feb	0	0	205	209	209	208	209
Wet	Mar	0	0	547	581	585	569	563
Wet	Apr	0	0	61	70	70	65	65
Wet	May	0	0	1	1	1	1	1
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	4	4	4	4	4
AN	Jan	0	0	6	6	6	6	6
AN	Feb	0	0	139	145	143	143	140
AN	Mar	0	0	355	340	339	290	292
AN	Apr	0	0	14	39	39	21	21
AN	May	0	0	0	1	1	1	1
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	4	4	4	4	4
BN	Jan	0	0	9	9	9	9	9
BN	Feb	0	0	131	129	126	126	126
BN	Mar	0	0	408	404	383	288	299
BN	Apr	0	0	5	9	9	6	6
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	0	0	0	0	0
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	96	92	92	76	79
Dry	Apr	0	0	7	11	11	8	8
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	0	0	0	0	0
C	Jan	0	0	0	0	0	0	0
C	Feb	0	0	0	0	0	0	0
C	Mar	0	0	4	4	3	3	3
C	Apr	0	0	5	6	6	6	6
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-6. Loss of juvenile genetic Winter-Run Chinook salmon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	9	14 (66%)	8 (-1%)	8 (-1%)	8 (-1%)	8 (-1%)	6 (-33%)	8 (-7%)
Wet	Feb	205	274 (33%)	209 (2%)	209 (2%)	208 (2%)	209 (2%)	97 (-53%)	215 (5%)
Wet	Mar	547	706 (29%)	581 (6%)	585 (7%)	569 (4%)	563 (3%)	228 (-58%)	613 (12%)
Wet	Apr	61	71 (18%)	70 (16%)	70 (16%)	65 (7%)	65 (7%)	21 (-65%)	70 (15%)
Wet	May	1	1 (67%)	1 (68%)	1 (68%)	1 (68%)	1 (68%)	0 (-68%)	1 (64%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	4	7 (66%)	4 (-2%)	4 (-2%)	4 (-2%)	4 (-1%)	2 (-47%)	4 (-9%)
AN	Jan	6	13 (128%)	6 (-3%)	6 (-3%)	6 (-3%)	6 (-3%)	5 (-11%)	5 (-8%)
AN	Feb	139	244 (76%)	145 (5%)	143 (3%)	143 (3%)	140 (1%)	117 (-15%)	161 (16%)
AN	Mar	355	669 (89%)	340 (-4%)	339 (-4%)	290 (-18%)	292 (-18%)	289 (-18%)	351 (-1%)
AN	Apr	14	43 (208%)	39 (178%)	39 (177%)	21 (49%)	21 (49%)	19 (39%)	39 (177%)
AN	May	0	1 (149%)	1 (124%)	1 (124%)	1 (96%)	1 (93%)	0 (-29%)	1 (124%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	4	7 (62%)	4 (-3%)	4 (-4%)	4 (-6%)	4 (-6%)	2 (-52%)	3 (-15%)
BN	Jan	9	23 (149%)	9 (-3%)	9 (-3%)	9 (-3%)	9 (-3%)	9 (1%)	9 (-3%)
BN	Feb	131	226 (73%)	129 (-1%)	126 (-3%)	126 (-4%)	126 (-4%)	114 (-13%)	146 (12%)
BN	Mar	408	807 (98%)	404 (-1%)	383 (-6%)	288 (-29%)	299 (-27%)	364 (-11%)	399 (-2%)
BN	Apr	5	10 (98%)	9 (74%)	9 (78%)	6 (12%)	6 (15%)	5 (5%)	9 (75%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	96	173 (80%)	92 (-4%)	92 (-4%)	76 (-21%)	79 (-18%)	123 (28%)	97 (0%)
Dry	Apr	7	13 (76%)	11 (59%)	11 (59%)	8 (6%)	8 (6%)	7 (-7%)	11 (60%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	4	5 (14%)	4 (-4%)	3 (-21%)	3 (-17%)	3 (-15%)	4 (13%)	4 (1%)
C	Apr	5	7 (27%)	6 (20%)	6 (12%)	6 (10%)	6 (15%)	6 (4%)	7 (29%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-7. Loss of juvenile genetic Winter-Run Chinook salmon at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	4	4	4	4	4
Wet	Feb	0	0	21	22	22	22	22
Wet	Mar	0	0	53	57	57	54	54
Wet	Apr	0	0	1	1	1	1	1
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	4	4	4	4	4
AN	Jan	0	0	4	4	4	4	4
AN	Feb	0	0	23	23	23	23	23
AN	Mar	0	0	57	61	61	44	45
AN	Apr	0	0	1	1	1	1	1
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	3	3	3	3	3
BN	Jan	0	0	0	0	0	0	0
BN	Feb	0	0	37	35	36	36	36
BN	Mar	0	0	94	95	99	63	61
BN	Apr	0	0	4	4	4	4	4
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	1	1	1	1	1
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	43	43	43	34	33
Dry	Apr	0	0	0	0	0	0	0
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	2	2	2	2	1
C	Jan	0	0	1	1	1	1	1
C	Feb	0	0	0	0	0	0	0
C	Mar	0	0	11	10	9	9	9
C	Apr	0	0	0	0	0	0	0
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-8. Loss of juvenile genetic Winter-Run Chinook salmon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	4	4 (6%)	4 (0%)	4 (0%)	4 (0%)	4 (0%)	4 (2%)	4 (0%)
Wet	Feb	21	21 (3%)	22 (5%)	22 (4%)	22 (6%)	22 (6%)	21 (2%)	22 (7%)
Wet	Mar	53	54 (1%)	57 (8%)	57 (6%)	54 (2%)	54 (2%)	34 (-36%)	60 (13%)
Wet	Apr	1	1 (1%)	1 (10%)	1 (11%)	1 (-10%)	1 (-11%)	0 (-80%)	1 (12%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	4	4 (6%)	4 (-2%)	4 (-2%)	4 (-2%)	4 (-1%)	2 (-35%)	3 (-7%)
AN	Jan	4	5 (15%)	4 (-1%)	4 (-1%)	4 (-1%)	4 (-1%)	3 (-35%)	4 (-2%)
AN	Feb	23	24 (6%)	23 (2%)	23 (2%)	23 (2%)	23 (2%)	23 (-1%)	24 (5%)
AN	Mar	57	63 (11%)	61 (7%)	61 (7%)	44 (-21%)	45 (-21%)	41 (-27%)	63 (12%)
AN	Apr	1	1 (-3%)	1 (0%)	1 (0%)	1 (-33%)	1 (-33%)	0 (-85%)	1 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	3	4 (19%)	3 (8%)	3 (9%)	3 (10%)	3 (10%)	1 (-52%)	3 (3%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	37	40 (8%)	35 (-4%)	36 (-3%)	36 (-3%)	36 (-4%)	22 (-41%)	38 (2%)
BN	Mar	94	112 (18%)	95 (0%)	99 (5%)	63 (-33%)	61 (-36%)	64 (-32%)	96 (2%)
BN	Apr	4	5 (13%)	4 (5%)	4 (4%)	4 (-6%)	4 (-5%)	1 (-68%)	5 (6%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	1	1 (-1%)	1 (-2%)	1 (0%)	1 (-1%)	1 (-4%)	1 (-49%)	1 (-7%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	43	48 (10%)	43 (-1%)	43 (-1%)	34 (-21%)	33 (-22%)	25 (-42%)	43 (-1%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	2	2 (14%)	2 (5%)	2 (1%)	2 (0%)	1 (-1%)	1 (-55%)	2 (0%)
C	Jan	1	1 (22%)	1 (-11%)	1 (-3%)	1 (1%)	1 (0%)	0 (-46%)	1 (-2%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	11	9 (-14%)	10 (-8%)	9 (-16%)	9 (-21%)	9 (-21%)	3 (-69%)	11 (-3%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Table I.2-9. Loss of juvenile LAD spring-run Chinook salmon at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	6	6	6	6	6
Wet	Feb	0	0	68	70	70	69	69
Wet	Mar	0	0	1,690	1795	1808	1758	1742
Wet	Apr	0	0	15,325	17826	17806	16334	16338
Wet	May	0	0	26,136	43920	43836	43782	43899
Wet	Jun	0	0	1,749	1814	1811	1824	1821
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	0	0	0	0	0
AN	Jan	0	0	4	4	4	4	4
AN	Feb	0	0	46	48	47	48	47
AN	Mar	0	0	1096	1051	1048	895	904
AN	Apr	0	0	3543	9850	9818	5283	5284
AN	May	0	0	9964	22299	22291	19504	19218
AN	Jun	0	0	1258	1184	1191	1161	1152
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	0	0	0	0	0
BN	Jan	0	0	0	0	0	0	0
BN	Feb	0	0	0	0	0	0	0
BN	Mar	0	0	719	711	674	507	526
BN	Apr	0	0	2,520	4383	4480	2811	2908
BN	May	0	0	1,519	2940	2993	2974	3006
BN	Jun	0	0	25	24	25	25	24
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	0	0	0	0	0
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	273	261	261	215	224
Dry	Apr	0	0	1,817	2893	2891	1917	1924
Dry	May	0	0	611	1145	1150	998	963
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	0	0	0	0	0
C	Jan	0	0	0	0	0	0	0
C	Feb	0	0	3	3	3	3	3
C	Mar	0	0	114	110	91	95	97
C	Apr	0	0	195	233	218	214	225
C	May	0	0	25	35	33	33	34
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-10. Loss of juvenile LAD spring-run Chinook salmon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAllVA	Alt3	Alt4
Wet	Jan	6	10 (66%)	6 (-1%)	6 (-1%)	6 (-1%)	6 (-1%)	4 (-33%)	5 (-7%)
Wet	Feb	68	91 (33%)	70 (2%)	70 (2%)	69 (2%)	69 (2%)	32 (-53%)	71 (5%)
Wet	Mar	1690	2,182 (29%)	1,795 (6%)	1,808 (7%)	1,758 (4%)	1,742 (3%)	706 (-58%)	1,896 (12%)
Wet	Apr	15325	18,068 (18%)	17,826 (16%)	17,806 (16%)	16,334 (7%)	16,338 (7%)	5,368 (-65%)	17,587 (15%)
Wet	May	26136	43,634 (67%)	43,920 (68%)	43,836 (68%)	43,782 (68%)	43,899 (68%)	8,259 (-68%)	42,937 (64%)
Wet	Jun	1749	2,258 (29%)	1,814 (4%)	1,811 (4%)	1,824 (4%)	1,821 (4%)	1,786 (2%)	1,773 (1%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	4	9 (128%)	4 (-3%)	4 (-3%)	4 (-3%)	4 (-3%)	3 (-11%)	4 (-8%)
AN	Feb	46	81 (76%)	48 (5%)	47 (3%)	48 (3%)	47 (1%)	39 (-15%)	54 (16%)
AN	Mar	1096	2,069 (89%)	1,051 (-4%)	1,048 (-4%)	895 (-18%)	904 (-18%)	894 (-18%)	1,085 (-1%)
AN	Apr	3543	10,910 (208%)	9,850 (178%)	9,818 (177%)	5,283 (49%)	5,284 (49%)	4,922 (39%)	9,824 (177%)
AN	May	9964	24,796 (149%)	22,299 (124%)	22,291 (124%)	19,504 (96%)	19,218 (93%)	7,051 (-29%)	22,352 (124%)
AN	Jun	1258	1,875 (49%)	1,184 (-6%)	1,191 (-5%)	1,161 (-8%)	1,152 (-8%)	1,059 (-16%)	1,183 (-6%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	719	1,420 (98%)	711 (-1%)	674 (-6%)	507 (-29%)	526 (-27%)	641 (-11%)	702 (-2%)
BN	Apr	2520	4,989 (98%)	4,383 (74%)	4,480 (78%)	2,811 (12%)	2,908 (15%)	2,648 (5%)	4,400 (75%)
BN	May	1519	3,169 (109%)	2,940 (94%)	2,993 (97%)	2,974 (96%)	3,006 (98%)	1,512 (0%)	2,917 (92%)
BN	Jun	25	33 (32%)	24 (-6%)	25 (-2%)	25 (-2%)	24 (-4%)	18 (-28%)	23 (-10%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	273	491 (80%)	261 (-4%)	261 (-4%)	215 (-21%)	224 (-18%)	349 (28%)	274 (0%)
Dry	Apr	1817	3,195 (76%)	2,893 (59%)	2,891 (59%)	1,917 (6%)	1,924 (6%)	1,691 (-7%)	2,904 (60%)
Dry	May	611	1,339 (119%)	1,145 (87%)	1,150 (88%)	998 (63%)	963 (58%)	726 (19%)	1,149 (88%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	3	5 (51%)	3 (6%)	3 (-11%)	3 (-12%)	3 (-13%)	4 (26%)	4 (24%)
C	Mar	114	130 (14%)	110 (-4%)	91 (-21%)	95 (-17%)	97 (-15%)	129 (13%)	116 (1%)
C	Apr	195	249 (27%)	233 (20%)	218 (12%)	214 (10%)	225 (15%)	202 (4%)	251 (29%)
C	May	25	37 (47%)	35 (39%)	33 (31%)	33 (32%)	34 (34%)	30 (20%)	37 (47%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-11. Loss of juvenile LAD spring-run Chinook salmon at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	3	3	3	3	3
Wet	Feb	0	0	13	14	14	14	14
Wet	Mar	0	0	173	186	183	175	176
Wet	Apr	0	0	1,853	2035	2050	1675	1653
Wet	May	0	0	6,092	6189	6185	6182	6182
Wet	Jun	0	0	398	375	376	373	374
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	9	9	9	9	9
AN	Jan	0	0	3	3	3	3	3
AN	Feb	0	0	14	15	15	15	15
AN	Mar	0	0	183	197	197	144	144
AN	Apr	0	0	1,845	1842	1842	1227	1229
AN	May	0	0	4,899	5058	5056	4910	4879
AN	Jun	0	0	340	310	309	312	313
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	7	8	8	8	8
BN	Jan	0	0	1	1	1	1	1
BN	Feb	0	0	6	6	6	6	6
BN	Mar	0	0	646	650	678	430	416
BN	Apr	0	0	2,198	2314	2280	2067	2092
BN	May	0	0	1,182	1223	1158	1124	1093
BN	Jun	0	0	10	9	8	8	8
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	0	0	0	0	0
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	216	214	214	171	167
Dry	Apr	0	0	1,593	1580	1578	1373	1374
Dry	May	0	0	524	519	517	482	475
Dry	Jun	0	0	4	3	3	3	3
Dry	Jul	0	0	0	0	0	0	0



Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	22	23	22	21	21
C	Jan	0	0	0	0	0	0	0
C	Feb	0	0	3	3	3	3	3
C	Mar	0	0	139	127	117	110	109
C	Apr	0	0	126	135	162	161	160
C	May	0	0	34	36	36	36	36
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-12. Loss juvenile LAD spring-run Chinook salmon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	3	3 (6%)	3 (0%)	3 (0%)	3 (0%)	3 (0%)	3 (2%)	3 (0%)
Wet	Feb	13	14 (3%)	14 (5%)	14 (4%)	14 (6%)	14 (6%)	14 (2%)	14 (7%)
Wet	Mar	173	175 (1%)	186 (8%)	183 (6%)	175 (2%)	176 (2%)	110 (-36%)	195 (13%)
Wet	Apr	1853	1,863 (1%)	2,035 (10%)	2,050 (11%)	1,675 (-10%)	1,653 (-11%)	362 (-80%)	2,073 (12%)
Wet	May	6092	6,135 (1%)	6,189 (2%)	6,185 (2%)	6,182 (1%)	6,182 (1%)	881 (-86%)	6,210 (2%)
Wet	Jun	398	397 (0%)	375 (-6%)	376 (-6%)	373 (-6%)	374 (-6%)	214 (-46%)	376 (-6%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	9	9 (6%)	9 (-2%)	9 (-2%)	9 (-2%)	9 (-1%)	6 (-35%)	8 (-7%)
AN	Jan	3	4 (15%)	3 (-1%)	3 (-1%)	3 (-1%)	3 (-1%)	2 (-35%)	3 (-2%)
AN	Feb	14	15 (6%)	15 (2%)	15 (2%)	15 (2%)	15 (2%)	14 (-1%)	15 (5%)
AN	Mar	183	202 (11%)	197 (7%)	197 (7%)	144 (-21%)	144 (-21%)	134 (-27%)	204 (12%)
AN	Apr	1845	1,793 (-3%)	1,842 (0%)	1,842 (0%)	1,227 (-33%)	1,229 (-33%)	282 (-85%)	1,851 (0%)
AN	May	4899	5,359 (9%)	5,058 (3%)	5,056 (3%)	4,910 (0%)	4,879 (0%)	812 (-83%)	5,075 (4%)
AN	Jun	340	397 (17%)	310 (-9%)	309 (-9%)	312 (-8%)	313 (-8%)	70 (-79%)	310 (-9%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	7	8 (19%)	8 (8%)	8 (9%)	8 (10%)	8 (10%)	3 (-52%)	7 (3%)
BN	Jan	1	2 (20%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-56%)	1 (-3%)
BN	Feb	6	6 (8%)	6 (-4%)	6 (-3%)	6 (-3%)	6 (-4%)	4 (-41%)	6 (2%)
BN	Mar	646	764 (18%)	650 (0%)	678 (5%)	430 (-33%)	416 (-36%)	439 (-32%)	660 (2%)
BN	Apr	2198	2,473 (13%)	2,314 (5%)	2,280 (4%)	2,067 (-6%)	2,092 (-5%)	697 (-68%)	2,331 (6%)
BN	May	1182	1,285 (9%)	1,223 (3%)	1,158 (-2%)	1,124 (-5%)	1,093 (-8%)	260 (-78%)	1,235 (5%)
BN	Jun	10	11 (10%)	9 (-11%)	8 (-13%)	8 (-14%)	8 (-13%)	1 (-85%)	9 (-8%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	216	238 (10%)	214 (-1%)	214 (-1%)	171 (-21%)	167 (-22%)	125 (-42%)	213 (-1%)
Dry	Apr	1593	1,742 (9%)	1,580 (-1%)	1,578 (-1%)	1,373 (-14%)	1,374 (-14%)	322 (-80%)	1,589 (0%)
Dry	May	524	574 (10%)	519 (-1%)	517 (-1%)	482 (-8%)	475 (-9%)	89 (-83%)	519 (-1%)
Dry	Jun	4	4 (3%)	3 (-16%)	3 (-16%)	3 (-14%)	3 (-13%)	0 (-88%)	3 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	22	25 (14%)	23 (5%)	22 (1%)	21 (0%)	21 (-1%)	10 (-55%)	22 (0%)
C	Jan	0	1 (22%)	0 (-11%)	0 (-3%)	0 (1%)	0 (0%)	0 (-46%)	0 (-2%)
C	Feb	3	4 (14%)	3 (-2%)	3 (1%)	3 (-1%)	3 (-1%)	2 (-55%)	4 (7%)
C	Mar	139	119 (-14%)	127 (-8%)	117 (-16%)	110 (-21%)	109 (-21%)	43 (-69%)	135 (-3%)
C	Apr	126	158 (26%)	135 (8%)	162 (28%)	161 (28%)	160 (27%)	33 (-74%)	133 (6%)
C	May	34	36 (4%)	36 (4%)	36 (6%)	36 (6%)	36 (6%)	7 (-79%)	34 (-1%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-13. Loss of juvenile steelhead at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	690	681	681	680	680
Wet	Feb	0	0	99	100	101	100	100
Wet	Mar	0	0	9	10	10	10	10
Wet	Apr	0	0	0	0	0	0	0
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	711	697	698	698	700
AN	Jan	0	0	468	455	454	453	454
AN	Feb	0	0	67	70	69	69	68
AN	Mar	0	0	6	6	6	5	5
AN	Apr	0	0	0	0	0	0	0
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	660	642	636	623	623
BN	Jan	0	0	164	159	159	160	160
BN	Feb	0	0	115	114	112	111	111
BN	Mar	0	0	20	20	19	14	15
BN	Apr	0	0	1	1	1	1	1
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	103	98	100	101	95
Dry	Jan	0	0	28	26	25	26	25
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	0	0	0	0	0
Dry	Apr	0	0	0	0	0	0	0
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	690	695	691	676	655
C	Jan	0	0	118	111	99	96	99
C	Feb	0	0	79	84	71	70	69
C	Mar	0	0	10	10	8	9	9
C	Apr	0	0	13	16	15	15	16
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	260	269	265	251	252

Table I.2-14. Loss of juvenile steelhead at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	690	1,145 (66%)	681 (-1%)	681 (-1%)	680 (-1%)	680 (-1%)	461 (-33%)	645 (-7%)
Wet	Feb	99	132 (33%)	100 (2%)	101 (2%)	100 (2%)	100 (2%)	47 (-53%)	103 (5%)
Wet	Mar	9	12 (29%)	10 (6%)	10 (7%)	10 (4%)	10 (3%)	4 (-58%)	10 (12%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	711	1,182 (66%)	697 (-2%)	698 (-2%)	698 (-2%)	700 (-1%)	376 (-47%)	644 (-9%)
AN	Jan	468	1,067 (128%)	455 (-3%)	454 (-3%)	453 (-3%)	454 (-3%)	416 (-11%)	430 (-8%)
AN	Feb	67	117 (76%)	70 (5%)	69 (3%)	69 (3%)	68 (1%)	56 (-15%)	77 (16%)
AN	Mar	6	11 (89%)	6 (-4%)	6 (-4%)	5 (-18%)	5 (-18%)	5 (-18%)	6 (-1%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	660	1,071 (62%)	642 (-3%)	636 (-4%)	623 (-6%)	623 (-6%)	317 (-52%)	563 (-15%)
BN	Jan	164	408 (149%)	159 (-3%)	159 (-3%)	160 (-3%)	160 (-3%)	165 (1%)	159 (-3%)
BN	Feb	115	200 (73%)	114 (-1%)	112 (-3%)	111 (-4%)	111 (-4%)	101 (-13%)	129 (12%)
BN	Mar	20	40 (98%)	20 (-1%)	19 (-6%)	14 (-29%)	15 (-27%)	18 (-11%)	20 (-2%)
BN	Apr	1	1 (98%)	1 (74%)	1 (78%)	1 (12%)	1 (15%)	1 (5%)	1 (75%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	103	138 (34%)	98 (-5%)	100 (-3%)	101 (-2%)	95 (-8%)	56 (-45%)	81 (-22%)
Dry	Jan	28	53 (88%)	26 (-10%)	25 (-10%)	26 (-10%)	25 (-13%)	23 (-17%)	29 (1%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	690	953 (38%)	695 (1%)	691 (0%)	676 (-2%)	655 (-5%)	341 (-51%)	595 (-14%)
C	Jan	118	201 (70%)	111 (-6%)	99 (-16%)	96 (-18%)	99 (-16%)	121 (3%)	113 (-4%)
C	Feb	79	120 (51%)	84 (6%)	71 (-11%)	70 (-12%)	69 (-13%)	100 (26%)	98 (24%)
C	Mar	10	12 (14%)	10 (-4%)	8 (-21%)	9 (-17%)	9 (-15%)	12 (13%)	11 (1%)
C	Apr	13	17 (27%)	16 (20%)	15 (12%)	15 (10%)	16 (15%)	14 (4%)	17 (29%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	260	339 (30%)	269 (3%)	265 (2%)	251 (-3%)	252 (-3%)	131 (-50%)	237 (-9%)

Table I.2-15. Loss of juvenile steelhead at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	74	74	74	74	74
Wet	Feb	0	0	2	2	2	2	2
Wet	Mar	0	0	0	0	0	0	0
Wet	Apr	0	0	0	0	0	0	0
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	1	1	1	1	1
Wet	Nov	0	0	1	1	1	1	1
Wet	Dec	0	0	212	209	209	209	210
AN	Jan	0	0	71	71	70	71	71
AN	Feb	0	0	2	2	2	2	2
AN	Mar	0	0	0	0	0	0	0
AN	Apr	0	0	0	0	0	0	0
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	1	1	1	1	1
AN	Nov	0	0	1	1	1	1	1
AN	Dec	0	0	170	184	185	186	187
BN	Jan	0	0	54	53	52	53	53
BN	Feb	0	0	9	8	8	8	8
BN	Mar	0	0	2	2	2	1	1
BN	Apr	0	0	1	1	1	1	1
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	7	7	7	7	7
Dry	Jan	0	0	15	14	15	15	15
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	0	0	0	0	0
Dry	Apr	0	0	0	0	0	0	0
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	68	72	69	68	67
C	Jan	0	0	66	59	64	67	66
C	Feb	0	0	11	11	11	11	11
C	Mar	0	0	6	6	5	5	5
C	Apr	0	0	0	0	0	0	0
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	32	34	35	37	37

Table I.2-16. Loss juvenile steelhead at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	74	78 (6%)	74 (0%)	74 (0%)	74 (0%)	74 (0%)	75 (2%)	74 (0%)
Wet	Feb	2	2 (3%)	2 (5%)	2 (4%)	2 (6%)	2 (6%)	2 (2%)	2 (7%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	1	1 (8%)	1 (-3%)	1 (-4%)	1 (-3%)	1 (1%)	1 (-10%)	1 (1%)
Wet	Nov	1	1 (-7%)	1 (2%)	1 (2%)	1 (1%)	1 (1%)	1 (9%)	1 (0%)
Wet	Dec	212	225 (6%)	209 (-2%)	209 (-2%)	209 (-2%)	210 (-1%)	138 (-35%)	197 (-7%)
AN	Jan	71	82 (15%)	71 (-1%)	70 (-1%)	71 (-1%)	71 (-1%)	46 (-35%)	70 (-2%)
AN	Feb	2	2 (6%)	2 (2%)	2 (2%)	2 (2%)	2 (2%)	2 (-1%)	2 (5%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	1	1 (34%)	1 (0%)	1 (-1%)	1 (-1%)	1 (1%)	0 (-24%)	1 (0%)
AN	Nov	1	1 (-8%)	1 (-1%)	1 (0%)	1 (-1%)	1 (0%)	0 (-43%)	1 (-1%)
AN	Dec	170	202 (19%)	184 (8%)	185 (9%)	186 (10%)	187 (10%)	81 (-52%)	176 (3%)
BN	Jan	54	65 (20%)	53 (-3%)	52 (-3%)	53 (-3%)	53 (-3%)	24 (-56%)	53 (-3%)
BN	Feb	9	9 (8%)	8 (-4%)	8 (-3%)	8 (-3%)	8 (-4%)	5 (-41%)	9 (2%)
BN	Mar	2	2 (18%)	2 (0%)	2 (5%)	1 (-33%)	1 (-36%)	1 (-32%)	2 (2%)
BN	Apr	1	1 (13%)	1 (5%)	1 (4%)	1 (-6%)	1 (-5%)	0 (-68%)	1 (6%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	7	7 (-1%)	7 (-2%)	7 (0%)	7 (-1%)	7 (-4%)	4 (-49%)	6 (-7%)
Dry	Jan	15	17 (13%)	14 (-5%)	15 (-5%)	15 (-4%)	15 (-1%)	4 (-72%)	15 (-3%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	68	78 (14%)	72 (5%)	69 (1%)	68 (0%)	67 (-1%)	31 (-55%)	68 (0%)
C	Jan	66	80 (22%)	59 (-11%)	64 (-3%)	67 (1%)	66 (0%)	36 (-46%)	65 (-2%)
C	Feb	11	13 (14%)	11 (-2%)	11 (1%)	11 (-1%)	11 (-1%)	5 (-55%)	12 (7%)
C	Mar	6	5 (-14%)	6 (-8%)	5 (-16%)	5 (-21%)	5 (-21%)	2 (-69%)	6 (-3%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	32	40 (27%)	34 (6%)	35 (12%)	37 (16%)	37 (17%)	18 (-43%)	34 (8%)



Table I.2-17. Loss of fall-run Chinook salmon at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	1,273	2,112 (66%)	1,257 (-1%)	1,256 (-1%)	1,254 (-1%)	1,254 (-1%)	851 (-33%)	1,190 (-7%)
Wet	Feb	3,056	4,076 (33%)	3,109 (2%)	3,113 (2%)	3,102 (2%)	3,106 (2%)	1,445 (-53%)	3,194 (5%)
Wet	Mar	358	462 (29%)	380 (6%)	382 (7%)	372 (4%)	368 (3%)	149 (-58%)	401 (12%)
Wet	Apr	476	561 (18%)	553 (16%)	553 (16%)	507 (7%)	507 (7%)	167 (-65%)	546 (15%)
Wet	May	9,062	15,130 (67%)	15,229 (68%)	15,200 (68%)	15,181 (68%)	15,222 (68%)	2,864 (-68%)	14,888 (64%)
Wet	Jun	6,833	8,823 (29%)	7,088 (4%)	7,074 (4%)	7,127 (4%)	7,114 (4%)	6,978 (2%)	6,925 (1%)
Wet	Jul	11	11 (1%)	11 (1%)	11 (1%)	11 (1%)	11 (1%)	3 (-69%)	11 (1%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	65	108 (66%)	64 (-2%)	64 (-2%)	64 (-2%)	64 (-1%)	34 (-47%)	59 (-9%)
AN	Jan	863	1,968 (128%)	839 (-3%)	838 (-3%)	837 (-3%)	837 (-3%)	767 (-11%)	794 (-8%)
AN	Feb	2065	3,629 (76%)	2,164 (5%)	2,122 (3%)	2,127 (3%)	2,090 (1%)	1,747 (-15%)	2,396 (16%)
AN	Mar	232	438 (89%)	222 (-4%)	222 (-4%)	189 (-18%)	191 (-18%)	189 (-18%)	230 (-1%)
AN	Apr	110	339 (208%)	306 (178%)	305 (177%)	164 (49%)	164 (49%)	153 (39%)	305 (177%)
AN	May	3455	8,598 (149%)	7,732 (124%)	7,729 (124%)	6,763 (96%)	6,664 (93%)	2,445 (-29%)	7,750 (124%)
AN	Jun	4915	7,326 (49%)	4,627 (-6%)	4,653 (-5%)	4,534 (-8%)	4,502 (-8%)	4,136 (-16%)	4,620 (-6%)
AN	Jul	11	12 (3%)	12 (3%)	12 (3%)	11 (2%)	11 (2%)	3 (-73%)	12 (3%)
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	60	98 (62%)	59 (-3%)	58 (-4%)	57 (-6%)	57 (-6%)	29 (-52%)	51 (-15%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	8	14 (73%)	8 (-1%)	8 (-3%)	8 (-4%)	8 (-4%)	7 (-13%)	9 (12%)
BN	Mar	91	179 (98%)	90 (-1%)	85 (-6%)	64 (-29%)	66 (-27%)	81 (-11%)	88 (-2%)
BN	Apr	927	1,835 (98%)	1,612 (74%)	1,648 (78%)	1,034 (12%)	1,070 (15%)	974 (5%)	1,618 (75%)
BN	May	2,798	5,839 (109%)	5,416 (94%)	5,514 (97%)	5,480 (96%)	5,539 (98%)	2,786 (0%)	5,375 (92%)
BN	Jun	368	487 (32%)	345 (-6%)	360 (-2%)	360 (-2%)	354 (-4%)	265 (-28%)	329 (-10%)
BN	Jul	4	4 (3%)	4 (4%)	4 (4%)	4 (1%)	4 (1%)	1 (-66%)	4 (2%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	6	8 (34%)	6 (-5%)	6 (-3%)	6 (-2%)	6 (-8%)	3 (-45%)	5 (-22%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	7	15 (97%)	7 (-6%)	7 (-6%)	7 (-6%)	7 (-6%)	8 (13%)	8 (12%)
Dry	Mar	84	151 (80%)	80 (-4%)	80 (-4%)	66 (-21%)	69 (-18%)	107 (28%)	84 (0%)
Dry	Apr	1,813	3,189 (76%)	2,887 (59%)	2,885 (59%)	1,913 (6%)	1,920 (6%)	1,687 (-7%)	2,898 (60%)
Dry	May	1,666	3,647 (119%)	3,120 (87%)	3,134 (88%)	2,719 (63%)	2,624 (58%)	1,979 (19%)	3,132 (88%)
Dry	Jun	24	25 (8%)	22 (-6%)	22 (-7%)	21 (-12%)	20 (-14%)	10 (-56%)	22 (-8%)
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	324	447 (38%)	326 (1%)	325 (0%)	317 (-2%)	308 (-5%)	160 (-51%)	280 (-14%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	6	7 (14%)	6 (-4%)	5 (-21%)	5 (-17%)	5 (-15%)	7 (13%)	6 (1%)
C	Apr	216	275 (27%)	258 (20%)	241 (12%)	237 (10%)	249 (15%)	224 (4%)	278 (29%)
C	May	243	357 (47%)	336 (39%)	318 (31%)	320 (32%)	325 (34%)	291 (20%)	357 (47%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	7	10 (30%)	8 (3%)	8 (2%)	7 (-3%)	7 (-3%)	4 (-50%)	7 (-9%)

Table I.2-18. Loss of fall-run Chinook salmon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	757	801 (6%)	756 (0%)	755 (0%)	754 (0%)	754 (0%)	772 (2%)	756 (0%)
Wet	Feb	725	745 (3%)	759 (5%)	756 (4%)	766 (6%)	765 (6%)	741 (2%)	773 (7%)
Wet	Mar	178	180 (1%)	192 (8%)	189 (6%)	181 (2%)	182 (2%)	114 (-36%)	201 (13%)
Wet	Apr	83	83 (1%)	91 (10%)	92 (11%)	75 (-10%)	74 (-11%)	16 (-80%)	93 (12%)
Wet	May	4,893	4,927 (1%)	4,970 (2%)	4,967 (2%)	4,965 (1%)	4,965 (1%)	707 (-86%)	4,987 (2%)
Wet	Jun	2,729	2,719 (0%)	2,574 (-6%)	2,578 (-6%)	2,559 (-6%)	2,565 (-6%)	1,466 (-46%)	2,578 (-6%)
Wet	Jul	28	26 (-9%)	27 (-6%)	27 (-5%)	26 (-8%)	26 (-7%)	10 (-64%)	27 (-5%)
Wet	Aug	2	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	0 (-82%)	2 (-5%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	1	1 (-7%)	1 (2%)	1 (2%)	1 (1%)	1 (1%)	1 (9%)	1 (0%)
Wet	Dec	16	17 (6%)	16 (-2%)	16 (-2%)	16 (-2%)	16 (-1%)	10 (-35%)	15 (-7%)
AN	Jan	731	841 (15%)	724 (-1%)	723 (-1%)	724 (-1%)	723 (-1%)	474 (-35%)	714 (-2%)
AN	Feb	795	842 (6%)	809 (2%)	807 (2%)	807 (2%)	807 (2%)	784 (-1%)	837 (5%)
AN	Mar	189	209 (11%)	203 (7%)	203 (7%)	148 (-21%)	149 (-21%)	138 (-27%)	211 (12%)
AN	Apr	83	80 (-3%)	82 (0%)	82 (0%)	55 (-33%)	55 (-33%)	13 (-85%)	83 (0%)
AN	May	3,934	4,304 (9%)	4,062 (3%)	4,060 (3%)	3,943 (0%)	3,918 (0%)	652 (-83%)	4,076 (4%)
AN	Jun	2,333	2,723 (17%)	2,125 (-9%)	2,116 (-9%)	2,142 (-8%)	2,148 (-8%)	483 (-79%)	2,126 (-9%)
AN	Jul	27	29 (8%)	28 (3%)	28 (3%)	27 (0%)	27 (-1%)	2 (-91%)	28 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	2	2 (-2%)	2 (1%)	2 (-1%)	1 (-3%)	1 (-4%)	0 (-92%)	2 (-1%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	1	1 (-8%)	1 (-1%)	1 (0%)	1 (-1%)	1 (0%)	0 (-43%)	1 (-1%)
AN	Dec	13	15 (19%)	14 (8%)	14 (9%)	14 (10%)	14 (10%)	6 (-52%)	13 (3%)
BN	Jan	7	9 (20%)	7 (-3%)	7 (-3%)	7 (-3%)	7 (-3%)	3 (-56%)	7 (-3%)
BN	Feb	17	19 (8%)	17 (-4%)	17 (-3%)	17 (-3%)	17 (-4%)	10 (-41%)	18 (2%)
BN	Mar	134	158 (18%)	134 (0%)	140 (5%)	89 (-33%)	86 (-36%)	91 (-32%)	136 (2%)
BN	Apr	960	1,080 (13%)	1,011 (5%)	996 (4%)	903 (-6%)	914 (-5%)	305 (-68%)	1,018 (6%)
BN	May	1,931	2,099 (9%)	1,998 (3%)	1,891 (-2%)	1,835 (-5%)	1,784 (-8%)	424 (-78%)	2,018 (5%)
BN	Jun	165	181 (10%)	146 (-11%)	143 (-13%)	142 (-14%)	144 (-13%)	25 (-85%)	152 (-8%)
BN	Jul	2	1 (-8%)	1 (-5%)	1 (-7%)	1 (-8%)	1 (-6%)	0 (-91%)	2 (1%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	5	6 (13%)	5 (-5%)	5 (-5%)	5 (-4%)	5 (-1%)	1 (-72%)	5 (-3%)
Dry	Feb	15	17 (15%)	13 (-8%)	13 (-8%)	13 (-8%)	14 (-4%)	9 (-41%)	15 (3%)
Dry	Mar	30	33 (10%)	30 (-1%)	30 (-1%)	24 (-21%)	23 (-22%)	17 (-42%)	30 (-1%)
Dry	Apr	1,967	2,151 (9%)	1,950 (-1%)	1,948 (-1%)	1,695 (-14%)	1,696 (-14%)	398 (-80%)	1,961 (0%)
Dry	May	1,616	1,770 (10%)	1,600 (-1%)	1,594 (-1%)	1,485 (-8%)	1,466 (-9%)	274 (-83%)	1,601 (-1%)
Dry	Jun	43	44 (3%)	36 (-16%)	36 (-16%)	37 (-14%)	38 (-13%)	5 (-88%)	38 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	20	23 (14%)	21 (5%)	20 (1%)	20 (0%)	20 (-1%)	9 (-55%)	20 (0%)
C	Jan	7	8 (22%)	6 (-11%)	6 (-3%)	7 (1%)	7 (0%)	4 (-46%)	7 (-2%)
C	Feb	17	19 (14%)	16 (-2%)	17 (1%)	16 (-1%)	16 (-1%)	7 (-55%)	18 (7%)
C	Mar	9	7 (-14%)	8 (-8%)	7 (-16%)	7 (-21%)	7 (-21%)	3 (-69%)	8 (-3%)
C	Apr	190	238 (26%)	204 (8%)	244 (28%)	243 (28%)	241 (27%)	49 (-74%)	200 (6%)
C	May	223	233 (4%)	233 (4%)	236 (6%)	236 (6%)	236 (6%)	46 (-79%)	220 (-1%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	6	7 (27%)	6 (6%)	6 (12%)	6 (16%)	7 (17%)	3 (-43%)	6 (8%)

Table I.2-19. Loss of late fall-run Chinook salmon at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	690	1,145 (66%)	681 (-1%)	681 (-1%)	680 (-1%)	680 (-1%)	461 (-33%)	645 (-7%)
Wet	Feb	99	132 (33%)	100 (2%)	101 (2%)	100 (2%)	100 (2%)	47 (-53%)	103 (5%)
Wet	Mar	9	12 (29%)	10 (6%)	10 (7%)	10 (4%)	10 (3%)	4 (-58%)	10 (12%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	711	1,182 (66%)	697 (-2%)	698 (-2%)	698 (-2%)	700 (-1%)	376 (-47%)	644 (-9%)
AN	Jan	468	1,067 (128%)	455 (-3%)	454 (-3%)	453 (-3%)	454 (-3%)	416 (-11%)	430 (-8%)
AN	Feb	67	117 (76%)	70 (5%)	69 (3%)	69 (3%)	68 (1%)	56 (-15%)	77 (16%)
AN	Mar	6	11 (89%)	6 (-4%)	6 (-4%)	5 (-18%)	5 (-18%)	5 (-18%)	6 (-1%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	660	1,071 (62%)	642 (-3%)	636 (-4%)	623 (-6%)	623 (-6%)	317 (-52%)	563 (-15%)
BN	Jan	164	408 (149%)	159 (-3%)	159 (-3%)	160 (-3%)	160 (-3%)	165 (1%)	159 (-3%)
BN	Feb	115	200 (73%)	114 (-1%)	112 (-3%)	111 (-4%)	111 (-4%)	101 (-13%)	129 (12%)
BN	Mar	20	40 (98%)	20 (-1%)	19 (-6%)	14 (-29%)	15 (-27%)	18 (-11%)	20 (-2%)
BN	Apr	1	1 (98%)	1 (74%)	1 (78%)	1 (12%)	1 (15%)	1 (5%)	1 (75%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	103	138 (34%)	98 (-5%)	100 (-3%)	101 (-2%)	95 (-8%)	56 (-45%)	81 (-22%)
Dry	Jan	28	53 (88%)	26 (-10%)	25 (-10%)	26 (-10%)	25 (-13%)	23 (-17%)	29 (1%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	690	953 (38%)	695 (1%)	691 (0%)	676 (-2%)	655 (-5%)	341 (-51%)	595 (-14%)
C	Jan	118	201 (70%)	111 (-6%)	99 (-16%)	96 (-18%)	99 (-16%)	121 (3%)	113 (-4%)
C	Feb	79	120 (51%)	84 (6%)	71 (-11%)	70 (-12%)	69 (-13%)	100 (26%)	98 (24%)
C	Mar	10	12 (14%)	10 (-4%)	8 (-21%)	9 (-17%)	9 (-15%)	12 (13%)	11 (1%)
C	Apr	13	17 (27%)	16 (20%)	15 (12%)	15 (10%)	16 (15%)	14 (4%)	17 (29%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	260	339 (30%)	269 (3%)	265 (2%)	251 (-3%)	252 (-3%)	131 (-50%)	237 (-9%)

Table I.2-20. Loss of late fall-run Chinook salmon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	74	78 (6%)	74 (0%)	74 (0%)	74 (0%)	74 (0%)	75 (2%)	74 (0%)
Wet	Feb	2	2 (3%)	2 (5%)	2 (4%)	2 (6%)	2 (6%)	2 (2%)	2 (7%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	1	1 (8%)	1 (-3%)	1 (-4%)	1 (-3%)	1 (1%)	1 (-10%)	1 (1%)
Wet	Nov	1	1 (-7%)	1 (2%)	1 (2%)	1 (1%)	1 (1%)	1 (9%)	1 (0%)
Wet	Dec	212	225 (6%)	209 (-2%)	209 (-2%)	209 (-2%)	210 (-1%)	138 (-35%)	197 (-7%)
AN	Jan	71	82 (15%)	71 (-1%)	70 (-1%)	71 (-1%)	71 (-1%)	46 (-35%)	70 (-2%)
AN	Feb	2	2 (6%)	2 (2%)	2 (2%)	2 (2%)	2 (2%)	2 (-1%)	2 (5%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	1	1 (34%)	1 (0%)	1 (-1%)	1 (-1%)	1 (1%)	0 (-24%)	1 (0%)
AN	Nov	1	1 (-8%)	1 (-1%)	1 (0%)	1 (-1%)	1 (0%)	0 (-43%)	1 (-1%)
AN	Dec	170	202 (19%)	184 (8%)	185 (9%)	186 (10%)	187 (10%)	81 (-52%)	176 (3%)
BN	Jan	54	65 (20%)	53 (-3%)	52 (-3%)	53 (-3%)	53 (-3%)	24 (-56%)	53 (-3%)
BN	Feb	9	9 (8%)	8 (-4%)	8 (-3%)	8 (-3%)	8 (-4%)	5 (-41%)	9 (2%)
BN	Mar	2	2 (18%)	2 (0%)	2 (5%)	1 (-33%)	1 (-36%)	1 (-32%)	2 (2%)
BN	Apr	1	1 (13%)	1 (5%)	1 (4%)	1 (-6%)	1 (-5%)	0 (-68%)	1 (6%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	7	7 (-1%)	7 (-2%)	7 (0%)	7 (-1%)	7 (-4%)	4 (-49%)	6 (-7%)
Dry	Jan	15	17 (13%)	14 (-5%)	15 (-5%)	15 (-4%)	15 (-1%)	4 (-72%)	15 (-3%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	68	78 (14%)	72 (5%)	69 (1%)	68 (0%)	67 (-1%)	31 (-55%)	68 (0%)
C	Jan	66	80 (22%)	59 (-11%)	64 (-3%)	67 (1%)	66 (0%)	36 (-46%)	65 (-2%)
C	Feb	11	13 (14%)	11 (-2%)	11 (1%)	11 (-1%)	11 (-1%)	5 (-55%)	12 (7%)
C	Mar	6	5 (-14%)	6 (-8%)	5 (-16%)	5 (-21%)	5 (-21%)	2 (-69%)	6 (-3%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	32	40 (27%)	34 (6%)	35 (12%)	37 (16%)	37 (17%)	18 (-43%)	34 (8%)

Table I.2-21. Loss of green sturgeon at SWP Banks Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (Alt2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	0	0	0	0	0
Wet	Feb	0	0	0	0	0	0	0
Wet	Mar	0	0	1	1	1	1	1
Wet	Apr	0	0	0	0	0	0	0
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	0	0	0	0	0
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	0	0	0	0	0
AN	Jan	0	0	0	0	0	0	0
AN	Feb	0	0	0	0	0	0	0
AN	Mar	0	0	1	1	1	0	0
AN	Apr	0	0	0	0	0	0	0
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	0	0	0	0	0
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	0	0	0	0	0
BN	Jan	0	0	1	1	1	1	1
BN	Feb	0	0	0	0	0	0	0
BN	Mar	0	0	0	0	0	0	0
BN	Apr	0	0	0	0	0	0	0
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	0	0	0	0	0
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	0	0	0	0	0
Dry	Apr	0	0	0	0	0	0	0
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	0	0	0	0	0
Dry	Jul	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	0	0	0	0	0
C	Jan	0	0	0	0	0	0	0
C	Feb	0	0	0	0	0	0	0
C	Mar	0	0	0	0	0	0	0
C	Apr	0	0	0	0	0	0	0
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-22. Loss of green sturgeon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	1	1 (29%)	1 (6%)	1 (7%)	1 (4%)	1 (3%)	0 (-58%)	1 (12%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	1	1 (89%)	1 (-4%)	1 (-4%)	0 (-18%)	0 (-18%)	0 (-18%)	1 (-1%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	1	4 (149%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (1%)	1 (-3%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-23. Loss of green sturgeon at CVP Jones Pumping Plant for Exploratory runs 1 and 3 (EXP1, EXP3), the “No Action Alternative”, and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Absolute values are rounded.

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Wet	Jan	0	0	0	0	0	0	0
Wet	Feb	0	0	0	0	0	0	0
Wet	Mar	0	0	0	0	0	0	0
Wet	Apr	0	0	0	0	0	0	0
Wet	May	0	0	0	0	0	0	0
Wet	Jun	0	0	7	6	6	6	6
Wet	Jul	0	0	0	0	0	0	0
Wet	Aug	0	0	0	0	0	0	0
Wet	Sep	0	0	0	0	0	0	0
Wet	Oct	0	0	0	0	0	0	0
Wet	Nov	0	0	0	0	0	0	0
Wet	Dec	0	0	0	0	0	0	0
AN	Jan	0	0	0	0	0	0	0
AN	Feb	0	0	0	0	0	0	0
AN	Mar	0	0	0	0	0	0	0
AN	Apr	0	0	0	0	0	0	0
AN	May	0	0	0	0	0	0	0
AN	Jun	0	0	6	5	5	5	5
AN	Jul	0	0	0	0	0	0	0
AN	Aug	0	0	0	0	0	0	0

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
AN	Sep	0	0	0	0	0	0	0
AN	Oct	0	0	0	0	0	0	0
AN	Nov	0	0	0	0	0	0	0
AN	Dec	0	0	0	0	0	0	0
BN	Jan	0	0	0	0	0	0	0
BN	Feb	0	0	0	0	0	0	0
BN	Mar	0	0	0	0	0	0	0
BN	Apr	0	0	0	0	0	0	0
BN	May	0	0	0	0	0	0	0
BN	Jun	0	0	0	0	0	0	0
BN	Jul	0	0	0	0	0	0	0
BN	Aug	0	0	0	0	0	0	0
BN	Sep	0	0	0	0	0	0	0
BN	Oct	0	0	0	0	0	0	0
BN	Nov	0	0	0	0	0	0	0
BN	Dec	0	0	0	0	0	0	0
Dry	Jan	0	0	0	0	0	0	0
Dry	Feb	0	0	0	0	0	0	0
Dry	Mar	0	0	0	0	0	0	0
Dry	Apr	0	0	0	0	0	0	0
Dry	May	0	0	0	0	0	0	0
Dry	Jun	0	0	1	1	1	1	1
Dry	Jul	0	0	1	1	1	1	1

Water Year Type	Month	EXP1	EXP3	NAA	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA
Dry	Aug	0	0	0	0	0	0	0
Dry	Sep	0	0	0	0	0	0	0
Dry	Oct	0	0	0	0	0	0	0
Dry	Nov	0	0	0	0	0	0	0
Dry	Dec	0	0	0	0	0	0	0
C	Jan	0	0	0	0	0	0	0
C	Feb	0	0	0	0	0	0	0
C	Mar	0	0	0	0	0	0	0
C	Apr	0	0	0	0	0	0	0
C	May	0	0	0	0	0	0	0
C	Jun	0	0	0	0	0	0	0
C	Jul	0	0	0	0	0	0	0
C	Aug	0	0	0	0	0	0	0
C	Sep	0	0	0	0	0	0	0
C	Oct	0	0	0	0	0	0	0
C	Nov	0	0	0	0	0	0	0
C	Dec	0	0	0	0	0	0	0

Table I.2-24. Loss of green sturgeon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	7	7 (0%)	6 (-6%)	6 (-6%)	6 (-6%)	6 (-6%)	4 (-46%)	6 (-6%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	6	7 (17%)	5 (-9%)	5 (-9%)	5 (-8%)	5 (-8%)	1 (-79%)	5 (-9%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	1	1 (3%)	1 (-16%)	1 (-16%)	1 (-14%)	1 (-13%)	0 (-88%)	1 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	1	1 (-6%)	1 (-11%)	1 (-10%)	1 (-8%)	1 (-7%)	0 (-90%)	1 (-8%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Table I.2-25. Loss of American shad at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	25,347	42,061 (66%)	25,024 (-1%)	25,007 (-1%)	24,976 (-1%)	24,980 (-1%)	16,948 (-33%)	23,688 (-7%)
Wet	Feb	12,615	16,823 (33%)	12,834 (2%)	12,850 (2%)	12,805 (2%)	12,819 (2%)	5,964 (-53%)	13,185 (5%)
Wet	Mar	1,289	1,663 (29%)	1,369 (6%)	1,378 (7%)	1,341 (4%)	1,328 (3%)	538 (-58%)	1,445 (12%)
Wet	Apr	292	344 (18%)	339 (16%)	339 (16%)	311 (7%)	311 (7%)	102 (-65%)	335 (15%)
Wet	May	2,046	3,416 (67%)	3,439 (68%)	3,432 (68%)	3,428 (68%)	3,437 (68%)	647 (-68%)	3,362 (64%)
Wet	Jun	13,154	16,985 (29%)	13,644 (4%)	13,618 (4%)	13,720 (4%)	13,695 (4%)	13,433 (2%)	13,332 (1%)
Wet	Jul	137,148	137,966 (1%)	138,799 (1%)	138,821 (1%)	138,929 (1%)	138,844 (1%)	42,115 (-69%)	138,792 (1%)
Wet	Aug	101,512	105,096 (4%)	103,723 (2%)	103,561 (2%)	103,456 (2%)	103,595 (2%)	43,153 (-57%)	103,469 (2%)
Wet	Sep	12,138	18,127 (49%)	12,403 (2%)	12,410 (2%)	12,690 (5%)	12,582 (4%)	10,116 (-17%)	12,712 (5%)
Wet	Oct	865	1,106 (28%)	838 (-3%)	830 (-4%)	846 (-2%)	873 (1%)	769 (-11%)	860 (-1%)
Wet	Nov	10,447	10,259 (-2%)	10,539 (1%)	10,536 (1%)	10,513 (1%)	10,412 (0%)	6,482 (-38%)	10,478 (0%)
Wet	Dec	20,577	34,207 (66%)	20,193 (-2%)	20,201 (-2%)	20,193 (-2%)	20,273 (-1%)	10,896 (-47%)	18,640 (-9%)
AN	Jan	17186	39,196 (128%)	16,718 (-3%)	16,695 (-3%)	16,661 (-3%)	16,672 (-3%)	15,269 (-11%)	15,807 (-8%)
AN	Feb	8525	14,978 (76%)	8,930 (5%)	8,760 (3%)	8,778 (3%)	8,625 (1%)	7,211 (-15%)	9,888 (16%)
AN	Mar	836	1,577 (89%)	801 (-4%)	799 (-4%)	683 (-18%)	689 (-18%)	681 (-18%)	827 (-1%)
AN	Apr	67	208 (208%)	187 (178%)	187 (177%)	101 (49%)	101 (49%)	94 (39%)	187 (177%)
AN	May	780	1,941 (149%)	1,746 (124%)	1,745 (124%)	1,527 (96%)	1,505 (93%)	552 (-29%)	1,750 (124%)
AN	Jun	9461	14,104 (49%)	8,907 (-6%)	8,958 (-5%)	8,729 (-8%)	8,668 (-8%)	7,962 (-16%)	8,894 (-6%)
AN	Jul	135460	139,591 (3%)	139,272 (3%)	139,269 (3%)	138,518 (2%)	138,596 (2%)	36,160 (-73%)	139,238 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	101421	107,703 (6%)	103,388 (2%)	103,195 (2%)	103,732 (2%)	103,374 (2%)	39,188 (-61%)	102,985 (2%)
AN	Sep	6366	16,233 (155%)	7,861 (23%)	7,831 (23%)	8,692 (37%)	8,637 (36%)	7,167 (13%)	7,864 (24%)
AN	Oct	569	1,031 (81%)	545 (-4%)	549 (-4%)	547 (-4%)	560 (-2%)	614 (8%)	547 (-4%)
AN	Nov	8033	7,447 (-7%)	8,109 (1%)	8,189 (2%)	8,158 (2%)	8,210 (2%)	5,333 (-34%)	8,093 (1%)
AN	Dec	19120	31,016 (62%)	18,590 (-3%)	18,420 (-4%)	18,040 (-6%)	18,031 (-6%)	9,167 (-52%)	16,297 (-15%)
BN	Jan	6,889	17,172 (149%)	6,674 (-3%)	6,671 (-3%)	6,714 (-3%)	6,714 (-3%)	6,931 (1%)	6,697 (-3%)
BN	Feb	3,124	5,403 (73%)	3,085 (-1%)	3,019 (-3%)	3,006 (-4%)	3,011 (-4%)	2,731 (-13%)	3,486 (12%)
BN	Mar	439	867 (98%)	434 (-1%)	411 (-6%)	310 (-29%)	321 (-27%)	391 (-11%)	428 (-2%)
BN	Apr	49	96 (98%)	85 (74%)	87 (78%)	54 (12%)	56 (15%)	51 (5%)	85 (75%)
BN	May	2,187	4,563 (109%)	4,232 (94%)	4,308 (97%)	4,282 (96%)	4,328 (98%)	2,177 (0%)	4,200 (92%)
BN	Jun	6,667	8,826 (32%)	6,255 (-6%)	6,533 (-2%)	6,526 (-2%)	6,428 (-4%)	4,813 (-28%)	5,974 (-10%)
BN	Jul	72,467	74,944 (3%)	75,248 (4%)	75,317 (4%)	73,443 (1%)	73,467 (1%)	24,844 (-66%)	74,127 (2%)
BN	Aug	49,322	48,928 (-1%)	52,801 (7%)	48,000 (-3%)	54,871 (11%)	55,181 (12%)	29,309 (-41%)	53,318 (8%)
BN	Sep	4,586	7,047 (54%)	5,061 (10%)	4,826 (5%)	4,772 (4%)	5,203 (13%)	6,782 (48%)	5,039 (10%)
BN	Oct	26,883	42,520 (58%)	26,494 (-1%)	25,495 (-5%)	25,818 (-4%)	26,715 (-1%)	29,136 (8%)	27,871 (4%)
BN	Nov	36,010	33,913 (-6%)	35,882 (0%)	35,634 (-1%)	37,104 (3%)	37,615 (4%)	22,147 (-38%)	35,779 (-1%)
BN	Dec	22,941	30,706 (34%)	21,840 (-5%)	22,162 (-3%)	22,457 (-2%)	21,197 (-8%)	12,549 (-45%)	17,916 (-22%)
Dry	Jan	9,225	17,301 (88%)	8,309 (-10%)	8,256 (-10%)	8,315 (-10%)	8,018 (-13%)	7,613 (-17%)	9,292 (1%)
Dry	Feb	1,934	3,811 (97%)	1,821 (-6%)	1,820 (-6%)	1,817 (-6%)	1,819 (-6%)	2,191 (13%)	2,176 (12%)
Dry	Mar	366	657 (80%)	349 (-4%)	349 (-4%)	288 (-21%)	299 (-18%)	468 (28%)	366 (0%)
Dry	Apr	274	483 (76%)	437 (59%)	437 (59%)	290 (6%)	291 (6%)	255 (-7%)	439 (60%)
Dry	May	113	248 (119%)	212 (87%)	213 (88%)	185 (63%)	178 (58%)	135 (19%)	213 (88%)
Dry	Jun	344	370 (8%)	324 (-6%)	322 (-7%)	301 (-12%)	295 (-14%)	150 (-56%)	316 (-8%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	13,917	14,434 (4%)	13,256 (-5%)	12,924 (-7%)	14,308 (3%)	14,488 (4%)	10,307 (-26%)	13,564 (-3%)
Dry	Aug	7,516	9,286 (24%)	8,029 (7%)	7,719 (3%)	12,190 (62%)	12,506 (66%)	17,392 (131%)	8,408 (12%)
Dry	Sep	1,905	1,851 (-3%)	1,924 (1%)	1,915 (0%)	1,851 (-3%)	1,865 (-2%)	4,770 (150%)	1,933 (1%)
Dry	Oct	3,029	4,025 (33%)	2,889 (-5%)	2,889 (-5%)	2,996 (-1%)	3,109 (3%)	3,399 (12%)	2,902 (-4%)
Dry	Nov	19,267	17,371 (-10%)	19,164 (-1%)	19,058 (-1%)	20,524 (7%)	20,461 (6%)	12,079 (-37%)	19,335 (0%)
Dry	Dec	35,730	49,377 (38%)	36,010 (1%)	35,811 (0%)	35,010 (-2%)	33,954 (-5%)	17,648 (-51%)	30,843 (-14%)
C	Jan	3,491	5,949 (70%)	3,274 (-6%)	2,935 (-16%)	2,853 (-18%)	2,918 (-16%)	3,588 (3%)	3,355 (-4%)
C	Feb	1,570	2,379 (51%)	1,664 (6%)	1,402 (-11%)	1,386 (-12%)	1,374 (-13%)	1,986 (26%)	1,943 (24%)
C	Mar	307	349 (14%)	296 (-4%)	244 (-21%)	256 (-17%)	261 (-15%)	348 (13%)	311 (1%)
C	Apr	68	87 (27%)	82 (20%)	76 (12%)	75 (10%)	79 (15%)	71 (4%)	88 (29%)
C	May	108	159 (47%)	150 (39%)	142 (31%)	143 (32%)	145 (34%)	130 (20%)	159 (47%)
C	Jun	6	9 (47%)	6 (-5%)	6 (5%)	7 (21%)	7 (13%)	11 (87%)	6 (-4%)
C	Jul	78	93 (20%)	70 (-10%)	73 (-6%)	209 (170%)	215 (177%)	263 (239%)	74 (-4%)
C	Aug	17	17 (0%)	17 (0%)	17 (0%)	37 (118%)	39 (131%)	98 (473%)	17 (0%)
C	Sep	6	7 (19%)	6 (11%)	7 (23%)	7 (35%)	7 (35%)	26 (372%)	6 (8%)
C	Oct	2,231	2,882 (29%)	2,158 (-3%)	2,001 (-10%)	2,018 (-10%)	2,158 (-3%)	3,088 (38%)	2,184 (-2%)
C	Nov	6,277	6,195 (-1%)	5,984 (-5%)	5,956 (-5%)	5,684 (-9%)	5,440 (-13%)	6,410 (2%)	5,990 (-5%)
C	Dec	4,739	6,182 (30%)	4,904 (3%)	4,845 (2%)	4,583 (-3%)	4,604 (-3%)	2,389 (-50%)	4,332 (-9%)

Table I.2-26. Loss of American shad at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAllVA	Alt3	Alt4
Wet	Jan	15,482	16,380 (6%)	15,450 (0%)	15,427 (0%)	15,418 (0%)	15,422 (0%)	15,772 (2%)	15,451 (0%)
Wet	Feb	2,632	2,706 (3%)	2,758 (5%)	2,745 (4%)	2,783 (6%)	2,778 (6%)	2,692 (2%)	2,809 (7%)
Wet	Mar	237	240 (1%)	255 (8%)	252 (6%)	241 (2%)	242 (2%)	152 (-36%)	267 (13%)
Wet	Apr	22	22 (1%)	25 (10%)	25 (11%)	20 (-10%)	20 (-11%)	4 (-80%)	25 (12%)
Wet	May	19	19 (1%)	19 (2%)	19 (2%)	19 (1%)	19 (1%)	3 (-86%)	19 (2%)
Wet	Jun	1,699	1,693 (0%)	1,603 (-6%)	1,605 (-6%)	1,594 (-6%)	1,597 (-6%)	913 (-46%)	1,605 (-6%)
Wet	Jul	52,033	47,594 (-9%)	49,101 (-6%)	49,180 (-5%)	48,107 (-8%)	48,165 (-7%)	18,877 (-64%)	49,296 (-5%)
Wet	Aug	114,331	108,524 (-5%)	108,923 (-5%)	109,113 (-5%)	109,174 (-5%)	108,955 (-5%)	20,192 (-82%)	109,052 (-5%)
Wet	Sep	10,395	11,196 (8%)	10,267 (-1%)	10,263 (-1%)	10,249 (-1%)	10,246 (-1%)	4,619 (-56%)	10,257 (-1%)
Wet	Oct	2,306	2,486 (8%)	2,229 (-3%)	2,218 (-4%)	2,248 (-3%)	2,325 (1%)	2,067 (-10%)	2,319 (1%)
Wet	Nov	9,145	8,545 (-7%)	9,298 (2%)	9,294 (2%)	9,219 (1%)	9,194 (1%)	9,928 (9%)	9,138 (0%)
Wet	Dec	22,342	23,716 (6%)	21,957 (-2%)	21,994 (-2%)	22,004 (-2%)	22,153 (-1%)	14,525 (-35%)	20,731 (-7%)
AN	Jan	14,954	17,198 (15%)	14,802 (-1%)	14,771 (-1%)	14,798 (-1%)	14,788 (-1%)	9,696 (-35%)	14,606 (-2%)
AN	Feb	2,887	3,060 (6%)	2,937 (2%)	2,932 (2%)	2,932 (2%)	2,932 (2%)	2,848 (-1%)	3,041 (5%)
AN	Mar	252	278 (11%)	270 (7%)	270 (7%)	198 (-21%)	198 (-21%)	184 (-27%)	281 (12%)
AN	Apr	22	22 (-3%)	22 (0%)	22 (0%)	15 (-33%)	15 (-33%)	3 (-85%)	22 (0%)
AN	May	15	16 (9%)	15 (3%)	15 (3%)	15 (0%)	15 (0%)	2 (-83%)	16 (4%)
AN	Jun	1,453	1,696 (17%)	1,323 (-9%)	1,317 (-9%)	1,334 (-8%)	1,337 (-8%)	301 (-79%)	1,324 (-9%)
AN	Jul	49,790	53,629 (8%)	51,445 (3%)	51,494 (3%)	49,650 (0%)	49,222 (-1%)	4,337 (-91%)	51,682 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	108,874	106,798 (-2%)	109,908 (1%)	108,203 (-1%)	105,244 (-3%)	104,364 (-4%)	9,119 (-92%)	108,081 (-1%)
AN	Sep	8,697	10,704 (23%)	8,601 (-1%)	8,596 (-1%)	8,567 (-1%)	8,708 (0%)	3,473 (-60%)	8,622 (-1%)
AN	Oct	1,773	2,382 (34%)	1,768 (0%)	1,748 (-1%)	1,758 (-1%)	1,783 (1%)	1,352 (-24%)	1,779 (0%)
AN	Nov	9,034	8,302 (-8%)	8,976 (-1%)	8,998 (0%)	8,981 (-1%)	9,008 (0%)	5,153 (-43%)	8,939 (-1%)
AN	Dec	17,864	21,265 (19%)	19,358 (8%)	19,485 (9%)	19,618 (10%)	19,677 (10%)	8,540 (-52%)	18,478 (3%)
BN	Jan	3,520	4,225 (20%)	3,412 (-3%)	3,411 (-3%)	3,420 (-3%)	3,418 (-3%)	1,545 (-56%)	3,426 (-3%)
BN	Feb	3,882	4,204 (8%)	3,729 (-4%)	3,757 (-3%)	3,747 (-3%)	3,745 (-4%)	2,272 (-41%)	3,949 (2%)
BN	Mar	287	339 (18%)	289 (0%)	301 (5%)	191 (-33%)	185 (-36%)	195 (-32%)	293 (2%)
BN	Apr	196	221 (13%)	207 (5%)	204 (4%)	185 (-6%)	187 (-5%)	62 (-68%)	208 (6%)
BN	May	59	64 (9%)	61 (3%)	58 (-2%)	56 (-5%)	55 (-8%)	13 (-78%)	62 (5%)
BN	Jun	1,482	1,631 (10%)	1,316 (-11%)	1,289 (-13%)	1,282 (-14%)	1,293 (-13%)	227 (-85%)	1,370 (-8%)
BN	Jul	16,209	14,898 (-8%)	15,349 (-5%)	15,103 (-7%)	14,961 (-8%)	15,313 (-6%)	1,428 (-91%)	16,344 (1%)
BN	Aug	13,491	10,994 (-19%)	13,205 (-2%)	12,943 (-4%)	12,669 (-6%)	12,582 (-7%)	1,303 (-90%)	13,241 (-2%)
BN	Sep	2,184	2,028 (-7%)	2,221 (2%)	2,207 (1%)	2,200 (1%)	2,224 (2%)	1,082 (-50%)	2,225 (2%)
BN	Oct	5,143	5,792 (13%)	5,080 (-1%)	4,933 (-4%)	5,011 (-3%)	5,048 (-2%)	2,742 (-47%)	5,161 (0%)
BN	Nov	15,918	15,406 (-3%)	16,372 (3%)	16,085 (1%)	16,063 (1%)	16,301 (2%)	10,726 (-33%)	16,438 (3%)
BN	Dec	8,543	8,493 (-1%)	8,354 (-2%)	8,507 (0%)	8,432 (-1%)	8,187 (-4%)	4,367 (-49%)	7,904 (-7%)
Dry	Jan	8,104	9,186 (13%)	7,695 (-5%)	7,738 (-5%)	7,754 (-4%)	7,993 (-1%)	2,275 (-72%)	7,868 (-3%)
Dry	Feb	1,434	1,644 (15%)	1,326 (-8%)	1,326 (-8%)	1,323 (-8%)	1,370 (-4%)	845 (-41%)	1,478 (3%)
Dry	Mar	326	359 (10%)	323 (-1%)	323 (-1%)	258 (-21%)	252 (-22%)	189 (-42%)	322 (-1%)
Dry	Apr	75	82 (9%)	75 (-1%)	75 (-1%)	65 (-14%)	65 (-14%)	15 (-80%)	75 (0%)
Dry	May	12	14 (10%)	12 (-1%)	12 (-1%)	11 (-8%)	11 (-9%)	2 (-83%)	12 (-1%)
Dry	Jun	1,196	1,226 (3%)	1,001 (-16%)	1,006 (-16%)	1,024 (-14%)	1,038 (-13%)	139 (-88%)	1,036 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	28,168	26,534 (-6%)	25,021 (-11%)	25,383 (-10%)	25,944 (-8%)	26,328 (-7%)	2,887 (-90%)	25,933 (-8%)
Dry	Aug	14,791	13,752 (-7%)	13,445 (-9%)	13,530 (-9%)	13,615 (-8%)	13,904 (-6%)	1,943 (-87%)	13,916 (-6%)
Dry	Sep	2,983	2,585 (-13%)	2,955 (-1%)	2,960 (-1%)	2,921 (-2%)	2,921 (-2%)	1,164 (-61%)	2,966 (-1%)
Dry	Oct	759	867 (14%)	755 (-1%)	755 (-1%)	744 (-2%)	746 (-2%)	372 (-51%)	747 (-2%)
Dry	Nov	7,335	6,756 (-8%)	7,426 (1%)	7,424 (1%)	7,308 (0%)	7,491 (2%)	4,750 (-35%)	7,414 (1%)
Dry	Dec	17,094	19,499 (14%)	17,871 (5%)	17,273 (1%)	17,023 (0%)	16,838 (-1%)	7,702 (-55%)	17,091 (0%)
C	Jan	2,166	2,643 (22%)	1,928 (-11%)	2,091 (-3%)	2,194 (1%)	2,168 (0%)	1,179 (-46%)	2,126 (-2%)
C	Feb	115	132 (14%)	113 (-2%)	116 (1%)	115 (-1%)	115 (-1%)	52 (-55%)	123 (7%)
C	Mar	5	5 (-14%)	5 (-8%)	5 (-16%)	4 (-21%)	4 (-21%)	2 (-69%)	5 (-3%)
C	Apr	1	2 (26%)	2 (8%)	2 (28%)	2 (28%)	2 (27%)	0 (-74%)	2 (6%)
C	May	19	19 (4%)	19 (4%)	20 (6%)	20 (6%)	20 (6%)	4 (-79%)	18 (-1%)
C	Jun	113	116 (3%)	104 (-8%)	107 (-5%)	102 (-10%)	100 (-12%)	24 (-79%)	96 (-15%)
C	Jul	20	28 (36%)	18 (-10%)	25 (22%)	24 (16%)	24 (16%)	5 (-76%)	19 (-5%)
C	Aug	191	179 (-6%)	172 (-10%)	174 (-9%)	161 (-16%)	159 (-17%)	44 (-77%)	171 (-10%)
C	Sep	487	521 (7%)	512 (5%)	583 (20%)	569 (17%)	567 (16%)	105 (-78%)	518 (6%)
C	Oct	577	618 (7%)	605 (5%)	590 (2%)	617 (7%)	612 (6%)	309 (-46%)	615 (7%)
C	Nov	1,466	1,458 (-1%)	1,583 (8%)	1,446 (-1%)	1,426 (-3%)	1,516 (3%)	500 (-66%)	1,581 (8%)
C	Dec	723	921 (27%)	770 (6%)	812 (12%)	837 (16%)	846 (17%)	409 (-43%)	781 (8%)

Table I.2-27. Loss of hardhead at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	1	1 (18%)	1 (16%)	1 (16%)	1 (7%)	1 (7%)	0 (-65%)	1 (15%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	1 (208%)	1 (178%)	1 (177%)	0 (49%)	0 (49%)	0 (39%)	1 (177%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	2	2 (19%)	2 (11%)	2 (23%)	3 (35%)	3 (35%)	9 (372%)	2 (8%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-28. Loss of hardhead at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-29. Loss of Pacific Lamprey at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-30. Loss of Pacific Lamprey at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	19	20 (6%)	19 (0%)	19 (0%)	19 (0%)	19 (0%)	19 (2%)	19 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	10	10 (1%)	11 (8%)	11 (6%)	10 (2%)	10 (2%)	6 (-36%)	11 (13%)
Wet	Apr	4	4 (1%)	4 (10%)	4 (11%)	3 (-10%)	3 (-11%)	1 (-80%)	4 (12%)
Wet	May	13	13 (1%)	13 (2%)	13 (2%)	13 (1%)	13 (1%)	2 (-86%)	13 (2%)
Wet	Jun	16	16 (0%)	15 (-6%)	15 (-6%)	15 (-6%)	15 (-6%)	9 (-46%)	15 (-6%)
Wet	Jul	10	9 (-9%)	9 (-6%)	9 (-5%)	9 (-8%)	9 (-7%)	4 (-64%)	9 (-5%)
Wet	Aug	3	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	0 (-82%)	2 (-5%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	3	3 (6%)	3 (-2%)	3 (-2%)	3 (-2%)	3 (-1%)	2 (-35%)	3 (-7%)
AN	Jan	18	21 (15%)	18 (-1%)	18 (-1%)	18 (-1%)	18 (-1%)	12 (-35%)	18 (-2%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	11	12 (11%)	11 (7%)	11 (7%)	8 (-21%)	8 (-21%)	8 (-27%)	12 (12%)
AN	Apr	4	4 (-3%)	4 (0%)	4 (0%)	2 (-33%)	2 (-33%)	1 (-85%)	4 (0%)
AN	May	10	11 (9%)	11 (3%)	11 (3%)	10 (0%)	10 (0%)	2 (-83%)	11 (4%)
AN	Jun	14	16 (17%)	13 (-9%)	12 (-9%)	13 (-8%)	13 (-8%)	3 (-79%)	13 (-9%)
AN	Jul	9	10 (8%)	10 (3%)	10 (3%)	9 (0%)	9 (-1%)	1 (-91%)	10 (4%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	2	2 (-2%)	2 (1%)	2 (-1%)	2 (-3%)	2 (-4%)	0 (-92%)	2 (-1%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	2	3 (19%)	3 (8%)	3 (9%)	3 (10%)	3 (10%)	1 (-52%)	2 (3%)
BN	Jan	341	410 (20%)	331 (-3%)	331 (-3%)	332 (-3%)	332 (-3%)	150 (-56%)	332 (-3%)
BN	Feb	25	27 (8%)	24 (-4%)	24 (-3%)	24 (-3%)	24 (-4%)	14 (-41%)	25 (2%)
BN	Mar	352	416 (18%)	354 (0%)	370 (5%)	235 (-33%)	227 (-36%)	239 (-32%)	360 (2%)
BN	Apr	11	12 (13%)	11 (5%)	11 (4%)	10 (-6%)	10 (-5%)	3 (-68%)	11 (6%)
BN	May	36	39 (9%)	37 (3%)	35 (-2%)	34 (-5%)	33 (-8%)	8 (-78%)	37 (5%)
BN	Jun	19	21 (10%)	17 (-11%)	16 (-13%)	16 (-14%)	16 (-13%)	3 (-85%)	17 (-8%)
BN	Jul	29	27 (-8%)	27 (-5%)	27 (-7%)	27 (-8%)	27 (-6%)	3 (-91%)	29 (1%)
BN	Aug	2	1 (-19%)	2 (-2%)	2 (-4%)	2 (-6%)	2 (-7%)	0 (-90%)	2 (-2%)
BN	Sep	1	1 (-7%)	1 (2%)	1 (1%)	1 (1%)	1 (2%)	1 (-50%)	1 (2%)
BN	Oct	4	4 (13%)	4 (-1%)	3 (-4%)	3 (-3%)	3 (-2%)	2 (-47%)	4 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	56	62 (10%)	56 (-1%)	56 (-1%)	45 (-21%)	44 (-22%)	33 (-42%)	56 (-1%)
Dry	Apr	135	148 (9%)	134 (-1%)	134 (-1%)	117 (-14%)	117 (-14%)	27 (-80%)	135 (0%)
Dry	May	33	36 (10%)	33 (-1%)	33 (-1%)	30 (-8%)	30 (-9%)	6 (-83%)	33 (-1%)
Dry	Jun	20	20 (3%)	16 (-16%)	16 (-16%)	17 (-14%)	17 (-13%)	2 (-88%)	17 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	7	7 (-6%)	7 (-11%)	7 (-10%)	7 (-8%)	7 (-7%)	1 (-90%)	7 (-8%)
Dry	Aug	2	2 (-7%)	2 (-9%)	2 (-9%)	2 (-8%)	2 (-6%)	0 (-87%)	2 (-6%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	2	3 (22%)	2 (-11%)	2 (-3%)	2 (1%)	2 (0%)	1 (-46%)	2 (-2%)
C	Feb	4	4 (14%)	4 (-2%)	4 (1%)	4 (-1%)	4 (-1%)	2 (-55%)	4 (7%)
C	Mar	154	133 (-14%)	142 (-8%)	130 (-16%)	122 (-21%)	122 (-21%)	48 (-69%)	150 (-3%)
C	Apr	366	460 (26%)	394 (8%)	470 (28%)	469 (28%)	465 (27%)	96 (-74%)	387 (6%)
C	May	305	318 (4%)	319 (4%)	323 (6%)	323 (6%)	323 (6%)	64 (-79%)	301 (-1%)
C	Jun	57	58 (3%)	52 (-8%)	54 (-5%)	51 (-10%)	50 (-12%)	12 (-79%)	48 (-15%)
C	Jul	18	25 (36%)	17 (-10%)	22 (22%)	21 (16%)	21 (16%)	4 (-76%)	18 (-5%)
C	Aug	6	6 (-6%)	5 (-10%)	5 (-9%)	5 (-16%)	5 (-17%)	1 (-77%)	5 (-10%)
C	Sep	1	1 (7%)	1 (5%)	1 (20%)	1 (17%)	1 (16%)	0 (-78%)	1 (6%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	12	16 (27%)	13 (6%)	14 (12%)	14 (16%)	14 (17%)	7 (-43%)	13 (8%)

Table I.2-31. Loss of River Lamprey at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-32. Loss of River Lamprey at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	1	1 (6%)	1 (0%)	1 (0%)	1 (0%)	1 (0%)	1 (2%)	1 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	1	1 (15%)	1 (-1%)	1 (-1%)	1 (-1%)	1 (-1%)	1 (-35%)	1 (-2%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	5	6 (20%)	5 (-3%)	5 (-3%)	5 (-3%)	5 (-3%)	2 (-56%)	5 (-3%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	4	5 (14%)	4 (-2%)	4 (1%)	4 (-1%)	4 (-1%)	2 (-55%)	4 (7%)
C	Mar	3	2 (-14%)	3 (-8%)	2 (-16%)	2 (-21%)	2 (-21%)	1 (-69%)	3 (-3%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Table I.2-33. Loss of Largemouth bass at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	74	123 (66%)	73 (-1%)	73 (-1%)	73 (-1%)	73 (-1%)	50 (-33%)	69 (-7%)
Wet	Feb	40	53 (33%)	40 (2%)	40 (2%)	40 (2%)	40 (2%)	19 (-53%)	41 (5%)
Wet	Mar	23	29 (29%)	24 (6%)	24 (7%)	24 (4%)	24 (3%)	10 (-58%)	26 (12%)
Wet	Apr	55	64 (18%)	63 (16%)	63 (16%)	58 (7%)	58 (7%)	19 (-65%)	63 (15%)
Wet	May	82	136 (67%)	137 (68%)	137 (68%)	137 (68%)	137 (68%)	26 (-68%)	134 (64%)
Wet	Jun	5,149	6,648 (29%)	5,341 (4%)	5,330 (4%)	5,371 (4%)	5,361 (4%)	5,258 (2%)	5,218 (1%)
Wet	Jul	12,491	12,565 (1%)	12,641 (1%)	12,643 (1%)	12,653 (1%)	12,645 (1%)	3,836 (-69%)	12,641 (1%)
Wet	Aug	1,933	2,001 (4%)	1,975 (2%)	1,972 (2%)	1,970 (2%)	1,973 (2%)	822 (-57%)	1,970 (2%)
Wet	Sep	103	153 (49%)	105 (2%)	105 (2%)	107 (5%)	106 (4%)	85 (-17%)	107 (5%)
Wet	Oct	51	65 (28%)	50 (-3%)	49 (-4%)	50 (-2%)	52 (1%)	45 (-11%)	51 (-1%)
Wet	Nov	64	63 (-2%)	65 (1%)	65 (1%)	65 (1%)	64 (0%)	40 (-38%)	65 (0%)
Wet	Dec	43	72 (66%)	43 (-2%)	43 (-2%)	43 (-2%)	43 (-1%)	23 (-47%)	39 (-9%)
AN	Jan	50	114 (128%)	49 (-3%)	49 (-3%)	49 (-3%)	49 (-3%)	45 (-11%)	46 (-8%)
AN	Feb	27	47 (76%)	28 (5%)	28 (3%)	28 (3%)	27 (1%)	23 (-15%)	31 (16%)
AN	Mar	15	28 (89%)	14 (-4%)	14 (-4%)	12 (-18%)	12 (-18%)	12 (-18%)	15 (-1%)
AN	Apr	13	39 (208%)	35 (178%)	35 (177%)	19 (49%)	19 (49%)	18 (39%)	35 (177%)
AN	May	31	78 (149%)	70 (124%)	70 (124%)	61 (96%)	60 (93%)	22 (-29%)	70 (124%)
AN	Jun	3703	5,521 (49%)	3,487 (-6%)	3,506 (-5%)	3,417 (-8%)	3,393 (-8%)	3,117 (-16%)	3,482 (-6%)
AN	Jul	12337	12,713 (3%)	12,684 (3%)	12,684 (3%)	12,616 (2%)	12,623 (2%)	3,293 (-73%)	12,681 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	1931	2,051 (6%)	1,969 (2%)	1,965 (2%)	1,976 (2%)	1,969 (2%)	746 (-61%)	1,961 (2%)
AN	Sep	54	137 (155%)	66 (23%)	66 (23%)	73 (37%)	73 (36%)	61 (13%)	66 (24%)
AN	Oct	34	61 (81%)	32 (-4%)	32 (-4%)	32 (-4%)	33 (-2%)	36 (8%)	32 (-4%)
AN	Nov	50	46 (-7%)	50 (1%)	50 (2%)	50 (2%)	51 (2%)	33 (-34%)	50 (1%)
AN	Dec	40	65 (62%)	39 (-3%)	39 (-4%)	38 (-6%)	38 (-6%)	19 (-52%)	34 (-15%)
BN	Jan	40	101 (149%)	39 (-3%)	39 (-3%)	39 (-3%)	39 (-3%)	41 (1%)	39 (-3%)
BN	Feb	8	14 (73%)	8 (-1%)	8 (-3%)	8 (-4%)	8 (-4%)	7 (-13%)	9 (12%)
BN	Mar	10	20 (98%)	10 (-1%)	10 (-6%)	7 (-29%)	8 (-27%)	9 (-11%)	10 (-2%)
BN	Apr	10	19 (98%)	17 (74%)	17 (78%)	11 (12%)	11 (15%)	10 (5%)	17 (75%)
BN	May	3,212	6,703 (109%)	6,217 (94%)	6,330 (97%)	6,290 (96%)	6,358 (98%)	3,199 (0%)	6,169 (92%)
BN	Jun	2,876	3,807 (32%)	2,698 (-6%)	2,818 (-2%)	2,815 (-2%)	2,773 (-4%)	2,076 (-28%)	2,577 (-10%)
BN	Jul	8,507	8,797 (3%)	8,833 (4%)	8,841 (4%)	8,621 (1%)	8,624 (1%)	2,916 (-66%)	8,702 (2%)
BN	Aug	785	779 (-1%)	841 (7%)	764 (-3%)	874 (11%)	878 (12%)	467 (-41%)	849 (8%)
BN	Sep	115	177 (54%)	127 (10%)	121 (5%)	120 (4%)	130 (13%)	170 (48%)	126 (10%)
BN	Oct	331	523 (58%)	326 (-1%)	314 (-5%)	318 (-4%)	329 (-1%)	358 (8%)	343 (4%)
BN	Nov	179	168 (-6%)	178 (0%)	177 (-1%)	184 (3%)	187 (4%)	110 (-38%)	178 (-1%)
BN	Dec	79	106 (34%)	75 (-5%)	76 (-3%)	77 (-2%)	73 (-8%)	43 (-45%)	62 (-22%)
Dry	Jan	40	75 (88%)	36 (-10%)	36 (-10%)	36 (-10%)	35 (-13%)	33 (-17%)	40 (1%)
Dry	Feb	14	28 (97%)	14 (-6%)	14 (-6%)	14 (-6%)	14 (-6%)	16 (13%)	16 (12%)
Dry	Mar	6	11 (80%)	6 (-4%)	6 (-4%)	5 (-21%)	5 (-18%)	8 (28%)	6 (0%)
Dry	Apr	13	23 (76%)	21 (59%)	21 (59%)	14 (6%)	14 (6%)	12 (-7%)	21 (60%)
Dry	May	1,014	2,220 (119%)	1,899 (87%)	1,907 (88%)	1,655 (63%)	1,597 (58%)	1,205 (19%)	1,906 (88%)
Dry	Jun	4,550	4,893 (8%)	4,283 (-6%)	4,252 (-7%)	3,984 (-12%)	3,903 (-14%)	1,988 (-56%)	4,176 (-8%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	4,799	4,977 (4%)	4,571 (-5%)	4,456 (-7%)	4,933 (3%)	4,996 (4%)	3,554 (-26%)	4,677 (-3%)
Dry	Aug	494	611 (24%)	528 (7%)	508 (3%)	802 (62%)	823 (66%)	1,144 (131%)	553 (12%)
Dry	Sep	108	104 (-3%)	109 (1%)	108 (0%)	104 (-3%)	105 (-2%)	269 (150%)	109 (1%)
Dry	Oct	651	865 (33%)	621 (-5%)	621 (-5%)	644 (-1%)	668 (3%)	730 (12%)	624 (-4%)
Dry	Nov	393	354 (-10%)	391 (-1%)	388 (-1%)	418 (7%)	417 (6%)	246 (-37%)	394 (0%)
Dry	Dec	164	226 (38%)	165 (1%)	164 (0%)	160 (-2%)	155 (-5%)	81 (-51%)	141 (-14%)
C	Jan	132	225 (70%)	124 (-6%)	111 (-16%)	108 (-18%)	111 (-16%)	136 (3%)	127 (-4%)
C	Feb	82	124 (51%)	87 (6%)	73 (-11%)	72 (-12%)	72 (-13%)	104 (26%)	101 (24%)
C	Mar	12	14 (14%)	12 (-4%)	9 (-21%)	10 (-17%)	10 (-15%)	14 (13%)	12 (1%)
C	Apr	14	18 (27%)	17 (20%)	16 (12%)	16 (10%)	17 (15%)	15 (4%)	19 (29%)
C	May	182	267 (47%)	252 (39%)	238 (31%)	240 (32%)	243 (34%)	218 (20%)	267 (47%)
C	Jun	1,558	2,290 (47%)	1,476 (-5%)	1,631 (5%)	1,884 (21%)	1,754 (13%)	2,913 (87%)	1,495 (-4%)
C	Jul	4,904	5,878 (20%)	4,433 (-10%)	4,600 (-6%)	13,230 (170%)	13,578 (177%)	16,601 (239%)	4,702 (-4%)
C	Aug	1,262	1,262 (0%)	1,262 (0%)	1,262 (0%)	2,746 (118%)	2,917 (131%)	7,231 (473%)	1,262 (0%)
C	Sep	193	229 (19%)	214 (11%)	237 (23%)	260 (35%)	259 (35%)	910 (372%)	208 (8%)
C	Oct	505	653 (29%)	489 (-3%)	453 (-10%)	457 (-10%)	489 (-3%)	699 (38%)	495 (-2%)
C	Nov	377	372 (-1%)	359 (-5%)	358 (-5%)	341 (-9%)	327 (-13%)	385 (2%)	360 (-5%)
C	Dec	89	116 (30%)	92 (3%)	91 (2%)	86 (-3%)	86 (-3%)	45 (-50%)	81 (-9%)

Table I.2-34. Loss of Largemouth bass at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	2,300	2,433 (6%)	2,295 (0%)	2,292 (0%)	2,290 (0%)	2,291 (0%)	2,343 (2%)	2,295 (0%)
Wet	Feb	902	928 (3%)	945 (5%)	941 (4%)	954 (6%)	952 (6%)	923 (2%)	963 (7%)
Wet	Mar	433	439 (1%)	466 (8%)	459 (6%)	440 (2%)	442 (2%)	277 (-36%)	488 (13%)
Wet	Apr	247	249 (1%)	272 (10%)	274 (11%)	224 (-10%)	221 (-11%)	48 (-80%)	277 (12%)
Wet	May	2,496	2,513 (1%)	2,535 (2%)	2,534 (2%)	2,533 (1%)	2,533 (1%)	361 (-86%)	2,544 (2%)
Wet	Jun	17,878	17,810 (0%)	16,864 (-6%)	16,886 (-6%)	16,768 (-6%)	16,801 (-6%)	9,605 (-46%)	16,888 (-6%)
Wet	Jul	13,338	12,200 (-9%)	12,587 (-6%)	12,607 (-5%)	12,332 (-8%)	12,347 (-7%)	4,839 (-64%)	12,637 (-5%)
Wet	Aug	4,913	4,663 (-5%)	4,680 (-5%)	4,688 (-5%)	4,691 (-5%)	4,682 (-5%)	868 (-82%)	4,686 (-5%)
Wet	Sep	929	1,001 (8%)	918 (-1%)	917 (-1%)	916 (-1%)	916 (-1%)	413 (-56%)	917 (-1%)
Wet	Oct	385	415 (8%)	372 (-3%)	370 (-4%)	375 (-3%)	388 (1%)	345 (-10%)	387 (1%)
Wet	Nov	946	884 (-7%)	962 (2%)	961 (2%)	954 (1%)	951 (1%)	1,027 (9%)	945 (0%)
Wet	Dec	2,193	2,328 (6%)	2,155 (-2%)	2,159 (-2%)	2,160 (-2%)	2,175 (-1%)	1,426 (-35%)	2,035 (-7%)
AN	Jan	2,221	2,555 (15%)	2,199 (-1%)	2,194 (-1%)	2,198 (-1%)	2,197 (-1%)	1,440 (-35%)	2,170 (-2%)
AN	Feb	990	1,049 (6%)	1,007 (2%)	1,005 (2%)	1,005 (2%)	1,005 (2%)	976 (-1%)	1,043 (5%)
AN	Mar	460	508 (11%)	494 (7%)	494 (7%)	361 (-21%)	362 (-21%)	335 (-27%)	513 (12%)
AN	Apr	246	239 (-3%)	246 (0%)	246 (0%)	164 (-33%)	164 (-33%)	38 (-85%)	247 (0%)
AN	May	2,007	2,196 (9%)	2,072 (3%)	2,071 (3%)	2,012 (0%)	1,999 (0%)	333 (-83%)	2,079 (4%)
AN	Jun	15,286	17,839 (17%)	13,920 (-9%)	13,860 (-9%)	14,031 (-8%)	14,071 (-8%)	3,163 (-79%)	13,930 (-9%)
AN	Jul	12,763	13,748 (8%)	13,188 (3%)	13,200 (3%)	12,727 (0%)	12,618 (-1%)	1,112 (-91%)	13,248 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	4,678	4,589 (-2%)	4,723 (1%)	4,649 (-1%)	4,522 (-3%)	4,484 (-4%)	392 (-92%)	4,644 (-1%)
AN	Sep	777	957 (23%)	769 (-1%)	768 (-1%)	766 (-1%)	778 (0%)	310 (-60%)	771 (-1%)
AN	Oct	296	398 (34%)	295 (0%)	292 (-1%)	294 (-1%)	298 (1%)	226 (-24%)	297 (0%)
AN	Nov	934	859 (-8%)	928 (-1%)	931 (0%)	929 (-1%)	932 (0%)	533 (-43%)	925 (-1%)
AN	Dec	1,754	2,087 (19%)	1,900 (8%)	1,913 (9%)	1,926 (10%)	1,932 (10%)	838 (-52%)	1,814 (3%)
BN	Jan	1,604	1,926 (20%)	1,555 (-3%)	1,555 (-3%)	1,559 (-3%)	1,558 (-3%)	704 (-56%)	1,562 (-3%)
BN	Feb	482	522 (8%)	463 (-4%)	467 (-3%)	465 (-3%)	465 (-4%)	282 (-41%)	491 (2%)
BN	Mar	235	277 (18%)	236 (0%)	246 (5%)	156 (-33%)	151 (-36%)	159 (-32%)	240 (2%)
BN	Apr	182	205 (13%)	192 (5%)	189 (4%)	171 (-6%)	173 (-5%)	58 (-68%)	193 (6%)
BN	May	7,465	8,115 (9%)	7,724 (3%)	7,310 (-2%)	7,094 (-5%)	6,898 (-8%)	1,640 (-78%)	7,801 (5%)
BN	Jun	42,789	47,070 (10%)	37,997 (-11%)	37,197 (-13%)	37,007 (-14%)	37,315 (-13%)	6,556 (-85%)	39,539 (-8%)
BN	Jul	11,302	10,388 (-8%)	10,702 (-5%)	10,531 (-7%)	10,432 (-8%)	10,678 (-6%)	996 (-91%)	11,396 (1%)
BN	Aug	1,584	1,291 (-19%)	1,551 (-2%)	1,520 (-4%)	1,488 (-6%)	1,478 (-7%)	153 (-90%)	1,555 (-2%)
BN	Sep	475	441 (-7%)	484 (2%)	480 (1%)	479 (1%)	484 (2%)	236 (-50%)	484 (2%)
BN	Oct	483	544 (13%)	477 (-1%)	463 (-4%)	471 (-3%)	474 (-2%)	258 (-47%)	485 (0%)
BN	Nov	1,836	1,777 (-3%)	1,888 (3%)	1,855 (1%)	1,852 (1%)	1,880 (2%)	1,237 (-33%)	1,896 (3%)
BN	Dec	1,172	1,165 (-1%)	1,146 (-2%)	1,167 (0%)	1,157 (-1%)	1,123 (-4%)	599 (-49%)	1,084 (-7%)
Dry	Jan	1,036	1,175 (13%)	984 (-5%)	990 (-5%)	992 (-4%)	1,022 (-1%)	291 (-72%)	1,006 (-3%)
Dry	Feb	1,255	1,439 (15%)	1,160 (-8%)	1,160 (-8%)	1,158 (-8%)	1,199 (-4%)	740 (-41%)	1,294 (3%)
Dry	Mar	649	715 (10%)	645 (-1%)	645 (-1%)	514 (-21%)	503 (-22%)	376 (-42%)	642 (-1%)
Dry	Apr	162	177 (9%)	161 (-1%)	161 (-1%)	140 (-14%)	140 (-14%)	33 (-80%)	162 (0%)
Dry	May	15,994	17,516 (10%)	15,827 (-1%)	15,771 (-1%)	14,694 (-8%)	14,503 (-9%)	2,716 (-83%)	15,845 (-1%)
Dry	Jun	55,611	57,036 (3%)	46,535 (-16%)	46,769 (-16%)	47,597 (-14%)	48,257 (-13%)	6,443 (-88%)	48,191 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	14,037	13,222 (-6%)	12,468 (-11%)	12,649 (-10%)	12,928 (-8%)	13,120 (-7%)	1,439 (-90%)	12,923 (-8%)
Dry	Aug	1,315	1,222 (-7%)	1,195 (-9%)	1,202 (-9%)	1,210 (-8%)	1,236 (-6%)	173 (-87%)	1,237 (-6%)
Dry	Sep	406	352 (-13%)	402 (-1%)	403 (-1%)	398 (-2%)	398 (-2%)	158 (-61%)	404 (-1%)
Dry	Oct	1,730	1,975 (14%)	1,720 (-1%)	1,720 (-1%)	1,695 (-2%)	1,700 (-2%)	848 (-51%)	1,701 (-2%)
Dry	Nov	1,124	1,035 (-8%)	1,138 (1%)	1,138 (1%)	1,120 (0%)	1,148 (2%)	728 (-35%)	1,136 (1%)
Dry	Dec	799	912 (14%)	836 (5%)	808 (1%)	796 (0%)	787 (-1%)	360 (-55%)	799 (0%)
C	Jan	1,734	2,116 (22%)	1,543 (-11%)	1,674 (-3%)	1,756 (1%)	1,735 (0%)	944 (-46%)	1,702 (-2%)
C	Feb	1,870	2,134 (14%)	1,826 (-2%)	1,882 (1%)	1,858 (-1%)	1,856 (-1%)	844 (-55%)	1,996 (7%)
C	Mar	405	347 (-14%)	372 (-8%)	340 (-16%)	321 (-21%)	320 (-21%)	126 (-69%)	394 (-3%)
C	Apr	213	267 (26%)	229 (8%)	273 (28%)	272 (28%)	270 (27%)	55 (-74%)	225 (6%)
C	May	8,411	8,780 (4%)	8,784 (4%)	8,899 (6%)	8,907 (6%)	8,909 (6%)	1,751 (-79%)	8,298 (-1%)
C	Jun	27,973	28,697 (3%)	25,725 (-8%)	26,507 (-5%)	25,213 (-10%)	24,728 (-12%)	5,855 (-79%)	23,689 (-15%)
C	Jul	4,271	5,815 (36%)	3,860 (-10%)	5,199 (22%)	4,971 (16%)	4,956 (16%)	1,037 (-76%)	4,058 (-5%)
C	Aug	689	648 (-6%)	622 (-10%)	628 (-9%)	581 (-16%)	574 (-17%)	158 (-77%)	618 (-10%)
C	Sep	523	560 (7%)	551 (5%)	627 (20%)	611 (17%)	609 (16%)	113 (-78%)	557 (6%)
C	Oct	380	406 (7%)	398 (5%)	388 (2%)	406 (7%)	402 (6%)	203 (-46%)	404 (7%)
C	Nov	1,020	1,015 (-1%)	1,101 (8%)	1,006 (-1%)	992 (-3%)	1,055 (3%)	348 (-66%)	1,100 (8%)
C	Dec	584	745 (27%)	622 (6%)	656 (12%)	677 (16%)	684 (17%)	331 (-43%)	631 (8%)

Table I.2-35. Loss of Sacramento Splittail at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	574	952 (66%)	567 (-1%)	566 (-1%)	565 (-1%)	566 (-1%)	384 (-33%)	536 (-7%)
Wet	Feb	756	1,008 (33%)	769 (2%)	770 (2%)	767 (2%)	768 (2%)	357 (-53%)	790 (5%)
Wet	Mar	273	352 (29%)	290 (6%)	292 (7%)	284 (4%)	281 (3%)	114 (-58%)	306 (12%)
Wet	Apr	2,010	2,370 (18%)	2,338 (16%)	2,335 (16%)	2,142 (7%)	2,143 (7%)	704 (-65%)	2,307 (15%)
Wet	May	424,024	707,911 (67%)	712,548 (68%)	711,191 (68%)	710,303 (68%)	712,206 (68%)	133,986 (-68%)	696,594 (64%)
Wet	Jun	133,289	172,110 (29%)	138,259 (4%)	137,989 (4%)	139,031 (4%)	138,773 (4%)	136,121 (2%)	135,090 (1%)
Wet	Jul	52,613	52,927 (1%)	53,246 (1%)	53,255 (1%)	53,296 (1%)	53,264 (1%)	16,156 (-69%)	53,244 (1%)
Wet	Aug	5,245	5,431 (4%)	5,360 (2%)	5,351 (2%)	5,346 (2%)	5,353 (2%)	2,230 (-57%)	5,347 (2%)
Wet	Sep	170	253 (49%)	173 (2%)	173 (2%)	177 (5%)	176 (4%)	141 (-17%)	178 (5%)
Wet	Oct	9	12 (28%)	9 (-3%)	9 (-4%)	9 (-2%)	9 (1%)	8 (-11%)	9 (-1%)
Wet	Nov	10	9 (-2%)	10 (1%)	10 (1%)	10 (1%)	10 (0%)	6 (-38%)	10 (0%)
Wet	Dec	51	85 (66%)	50 (-2%)	50 (-2%)	50 (-2%)	50 (-1%)	27 (-47%)	46 (-9%)
AN	Jan	389	887 (128%)	379 (-3%)	378 (-3%)	377 (-3%)	377 (-3%)	346 (-11%)	358 (-8%)
AN	Feb	511	898 (76%)	535 (5%)	525 (3%)	526 (3%)	517 (1%)	432 (-15%)	593 (16%)
AN	Mar	177	334 (89%)	169 (-4%)	169 (-4%)	144 (-18%)	146 (-18%)	144 (-18%)	175 (-1%)
AN	Apr	465	1,431 (208%)	1,292 (178%)	1,288 (177%)	693 (49%)	693 (49%)	646 (39%)	1,288 (177%)
AN	May	161651	402,280 (149%)	361,782 (124%)	361,649 (124%)	316,433 (96%)	311,787 (93%)	114,397 (-29%)	362,636 (124%)
AN	Jun	95873	142,918 (49%)	90,258 (-6%)	90,774 (-5%)	88,452 (-8%)	87,829 (-8%)	80,681 (-16%)	90,128 (-6%)
AN	Jul	51965	53,550 (3%)	53,428 (3%)	53,427 (3%)	53,138 (2%)	53,168 (2%)	13,872 (-73%)	53,415 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	5241	5,565 (6%)	5,342 (2%)	5,332 (2%)	5,360 (2%)	5,342 (2%)	2,025 (-61%)	5,322 (2%)
AN	Sep	89	227 (155%)	110 (23%)	109 (23%)	121 (37%)	121 (36%)	100 (13%)	110 (24%)
AN	Oct	6	11 (81%)	6 (-4%)	6 (-4%)	6 (-4%)	6 (-2%)	6 (8%)	6 (-4%)
AN	Nov	7	7 (-7%)	7 (1%)	8 (2%)	8 (2%)	8 (2%)	5 (-34%)	7 (1%)
AN	Dec	48	77 (62%)	46 (-3%)	46 (-4%)	45 (-6%)	45 (-6%)	23 (-52%)	41 (-15%)
BN	Jan	36	89 (149%)	35 (-3%)	35 (-3%)	35 (-3%)	35 (-3%)	36 (1%)	35 (-3%)
BN	Feb	90	156 (73%)	89 (-1%)	87 (-3%)	87 (-4%)	87 (-4%)	79 (-13%)	101 (12%)
BN	Mar	136	269 (98%)	135 (-1%)	127 (-6%)	96 (-29%)	99 (-27%)	121 (-11%)	133 (-2%)
BN	Apr	87	172 (98%)	151 (74%)	154 (78%)	97 (12%)	100 (15%)	91 (5%)	151 (75%)
BN	May	329	686 (109%)	637 (94%)	648 (97%)	644 (96%)	651 (98%)	328 (0%)	632 (92%)
BN	Jun	4,637	6,138 (32%)	4,350 (-6%)	4,544 (-2%)	4,539 (-2%)	4,471 (-4%)	3,347 (-28%)	4,155 (-10%)
BN	Jul	901	932 (3%)	935 (4%)	936 (4%)	913 (1%)	913 (1%)	309 (-66%)	922 (2%)
BN	Aug	36	36 (-1%)	39 (7%)	35 (-3%)	40 (11%)	40 (12%)	21 (-41%)	39 (8%)
BN	Sep	6	9 (54%)	7 (10%)	6 (5%)	6 (4%)	7 (13%)	9 (48%)	7 (10%)
BN	Oct	131	207 (58%)	129 (-1%)	124 (-5%)	126 (-4%)	130 (-1%)	142 (8%)	136 (4%)
BN	Nov	763	718 (-6%)	760 (0%)	755 (-1%)	786 (3%)	797 (4%)	469 (-38%)	758 (-1%)
BN	Dec	71	95 (34%)	68 (-5%)	69 (-3%)	70 (-2%)	66 (-8%)	39 (-45%)	56 (-22%)
Dry	Jan	2	3 (88%)	2 (-10%)	2 (-10%)	2 (-10%)	2 (-13%)	1 (-17%)	2 (1%)
Dry	Feb	33	66 (97%)	31 (-6%)	31 (-6%)	31 (-6%)	31 (-6%)	38 (13%)	37 (12%)
Dry	Mar	123	221 (80%)	118 (-4%)	118 (-4%)	97 (-21%)	101 (-18%)	157 (28%)	123 (0%)
Dry	Apr	145	256 (76%)	231 (59%)	231 (59%)	153 (6%)	154 (6%)	135 (-7%)	232 (60%)
Dry	May	90	197 (119%)	169 (87%)	169 (88%)	147 (63%)	142 (58%)	107 (19%)	169 (88%)
Dry	Jun	99	107 (8%)	93 (-6%)	93 (-7%)	87 (-12%)	85 (-14%)	43 (-56%)	91 (-8%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	29	30 (4%)	27 (-5%)	27 (-7%)	30 (3%)	30 (4%)	21 (-26%)	28 (-3%)
Dry	Aug	0	0 (24%)	0 (7%)	0 (3%)	1 (62%)	1 (66%)	1 (131%)	0 (12%)
Dry	Sep	4	3 (-3%)	4 (1%)	4 (0%)	3 (-3%)	4 (-2%)	9 (150%)	4 (1%)
Dry	Oct	1	1 (33%)	1 (-5%)	1 (-5%)	1 (-1%)	1 (3%)	1 (12%)	1 (-4%)
Dry	Nov	24	22 (-10%)	24 (-1%)	24 (-1%)	26 (7%)	26 (6%)	15 (-37%)	24 (0%)
Dry	Dec	13	18 (38%)	13 (1%)	13 (0%)	13 (-2%)	12 (-5%)	6 (-51%)	11 (-14%)
C	Jan	33	56 (70%)	31 (-6%)	28 (-16%)	27 (-18%)	28 (-16%)	34 (3%)	32 (-4%)
C	Feb	55	83 (51%)	58 (6%)	49 (-11%)	49 (-12%)	48 (-13%)	70 (26%)	68 (24%)
C	Mar	14	16 (14%)	14 (-4%)	11 (-21%)	12 (-17%)	12 (-15%)	16 (13%)	15 (1%)
C	Apr	7	9 (27%)	9 (20%)	8 (12%)	8 (10%)	8 (15%)	7 (4%)	9 (29%)
C	May	5	7 (47%)	7 (39%)	6 (31%)	7 (32%)	7 (34%)	6 (20%)	7 (47%)
C	Jun	16	24 (47%)	15 (-5%)	17 (5%)	20 (21%)	18 (13%)	30 (87%)	16 (-4%)
C	Jul	1	2 (20%)	1 (-10%)	1 (-6%)	4 (170%)	4 (177%)	5 (239%)	1 (-4%)
C	Aug	1	1 (0%)	1 (0%)	1 (0%)	2 (118%)	2 (131%)	6 (473%)	1 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	6	8 (29%)	6 (-3%)	6 (-10%)	6 (-10%)	6 (-3%)	9 (38%)	6 (-2%)
C	Nov	14	14 (-1%)	13 (-5%)	13 (-5%)	13 (-9%)	12 (-13%)	14 (2%)	13 (-5%)
C	Dec	78	101 (30%)	80 (3%)	79 (2%)	75 (-3%)	75 (-3%)	39 (-50%)	71 (-9%)

Table I.2-36. Loss of Sacramento Splittail at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	31	33 (6%)	31 (0%)	31 (0%)	31 (0%)	31 (0%)	32 (2%)	31 (0%)
Wet	Feb	21	21 (3%)	22 (5%)	22 (4%)	22 (6%)	22 (6%)	21 (2%)	22 (7%)
Wet	Mar	27	27 (1%)	29 (8%)	29 (6%)	27 (2%)	27 (2%)	17 (-36%)	30 (13%)
Wet	Apr	6,392	6,428 (1%)	7,020 (10%)	7,073 (11%)	5,779 (-10%)	5,703 (-11%)	1,251 (-80%)	7,154 (12%)
Wet	May	6,789,997	6,836,952 (1%)	6,897,152 (2%)	6,892,843 (2%)	6,890,154 (1%)	6,890,234 (1%)	981,777 (-86%)	6,921,465 (2%)
Wet	Jun	920,126	916,615 (0%)	867,943 (-6%)	869,074 (-6%)	862,974 (-6%)	864,682 (-6%)	494,311 (-46%)	869,150 (-6%)
Wet	Jul	52,691	48,196 (-9%)	49,722 (-6%)	49,803 (-5%)	48,716 (-8%)	48,774 (-7%)	19,116 (-64%)	49,919 (-5%)
Wet	Aug	2,393	2,271 (-5%)	2,279 (-5%)	2,283 (-5%)	2,285 (-5%)	2,280 (-5%)	423 (-82%)	2,282 (-5%)
Wet	Sep	245	264 (8%)	242 (-1%)	242 (-1%)	242 (-1%)	242 (-1%)	109 (-56%)	242 (-1%)
Wet	Oct	14	15 (8%)	14 (-3%)	14 (-4%)	14 (-3%)	14 (1%)	13 (-10%)	14 (1%)
Wet	Nov	4	4 (-7%)	5 (2%)	5 (2%)	5 (1%)	4 (1%)	5 (9%)	4 (0%)
Wet	Dec	22	24 (6%)	22 (-2%)	22 (-2%)	22 (-2%)	22 (-1%)	15 (-35%)	21 (-7%)
AN	Jan	30	35 (15%)	30 (-1%)	30 (-1%)	30 (-1%)	30 (-1%)	19 (-35%)	29 (-2%)
AN	Feb	23	24 (6%)	23 (2%)	23 (2%)	23 (2%)	23 (2%)	22 (-1%)	24 (5%)
AN	Mar	29	32 (11%)	31 (7%)	31 (7%)	22 (-21%)	23 (-21%)	21 (-27%)	32 (12%)
AN	Apr	6,365	6,187 (-3%)	6,354 (0%)	6,356 (0%)	4,234 (-33%)	4,241 (-33%)	974 (-85%)	6,385 (0%)
AN	May	5,460,101	5,973,104 (9%)	5,636,683 (3%)	5,634,961 (3%)	5,471,830 (0%)	5,437,390 (0%)	905,009 (-83%)	5,656,477 (4%)
AN	Jun	786,690	918,092 (17%)	716,417 (-9%)	713,322 (-9%)	722,129 (-8%)	724,198 (-8%)	162,810 (-79%)	716,942 (-9%)
AN	Jul	50,420	54,308 (8%)	52,096 (3%)	52,145 (3%)	50,278 (0%)	49,844 (-1%)	4,392 (-91%)	52,336 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	2,278	2,235 (-2%)	2,300 (1%)	2,264 (-1%)	2,202 (-3%)	2,184 (-4%)	191 (-92%)	2,262 (-1%)
AN	Sep	205	253 (23%)	203 (-1%)	203 (-1%)	202 (-1%)	206 (0%)	82 (-60%)	204 (-1%)
AN	Oct	11	15 (34%)	11 (0%)	11 (-1%)	11 (-1%)	11 (1%)	8 (-24%)	11 (0%)
AN	Nov	4	4 (-8%)	4 (-1%)	4 (0%)	4 (-1%)	4 (0%)	3 (-43%)	4 (-1%)
AN	Dec	18	21 (19%)	19 (8%)	20 (9%)	20 (10%)	20 (10%)	9 (-52%)	19 (3%)
BN	Jan	44	52 (20%)	42 (-3%)	42 (-3%)	42 (-3%)	42 (-3%)	19 (-56%)	43 (-3%)
BN	Feb	47	50 (8%)	45 (-4%)	45 (-3%)	45 (-3%)	45 (-4%)	27 (-41%)	47 (2%)
BN	Mar	93	110 (18%)	94 (0%)	98 (5%)	62 (-33%)	60 (-36%)	63 (-32%)	95 (2%)
BN	Apr	23	25 (13%)	24 (5%)	23 (4%)	21 (-6%)	21 (-5%)	7 (-68%)	24 (6%)
BN	May	67,359	73,227 (9%)	69,704 (3%)	65,967 (-2%)	64,019 (-5%)	62,246 (-8%)	14,800 (-78%)	70,391 (5%)
BN	Jun	9,435	10,379 (10%)	8,378 (-11%)	8,202 (-13%)	8,160 (-14%)	8,228 (-13%)	1,446 (-85%)	8,718 (-8%)
BN	Jul	645	592 (-8%)	610 (-5%)	601 (-7%)	595 (-8%)	609 (-6%)	57 (-91%)	650 (1%)
BN	Aug	18	15 (-19%)	17 (-2%)	17 (-4%)	17 (-6%)	17 (-7%)	2 (-90%)	17 (-2%)
BN	Sep	19	18 (-7%)	19 (2%)	19 (1%)	19 (1%)	19 (2%)	9 (-50%)	19 (2%)
BN	Oct	34	38 (13%)	33 (-1%)	32 (-4%)	33 (-3%)	33 (-2%)	18 (-47%)	34 (0%)
BN	Nov	9	8 (-3%)	9 (3%)	9 (1%)	9 (1%)	9 (2%)	6 (-33%)	9 (3%)
BN	Dec	2	2 (-1%)	2 (-2%)	2 (0%)	2 (-1%)	2 (-4%)	1 (-49%)	2 (-7%)
Dry	Jan	1	1 (13%)	1 (-5%)	1 (-5%)	1 (-4%)	1 (-1%)	0 (-72%)	1 (-3%)
Dry	Feb	1	2 (15%)	1 (-8%)	1 (-8%)	1 (-8%)	1 (-4%)	1 (-41%)	1 (3%)
Dry	Mar	21	23 (10%)	21 (-1%)	21 (-1%)	16 (-21%)	16 (-22%)	12 (-42%)	20 (-1%)
Dry	Apr	15	16 (9%)	15 (-1%)	15 (-1%)	13 (-14%)	13 (-14%)	3 (-80%)	15 (0%)
Dry	May	98	108 (10%)	97 (-1%)	97 (-1%)	90 (-8%)	89 (-9%)	17 (-83%)	97 (-1%)
Dry	Jun	1,143	1,172 (3%)	956 (-16%)	961 (-16%)	978 (-14%)	992 (-13%)	132 (-88%)	990 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	283	266 (-6%)	251 (-11%)	255 (-10%)	261 (-8%)	264 (-7%)	29 (-90%)	260 (-8%)
Dry	Aug	4	3 (-7%)	3 (-9%)	3 (-9%)	3 (-8%)	3 (-6%)	0 (-87%)	3 (-6%)
Dry	Sep	2	1 (-13%)	2 (-1%)	2 (-1%)	2 (-2%)	2 (-2%)	1 (-61%)	2 (-1%)
Dry	Oct	1	2 (14%)	1 (-1%)	1 (-1%)	1 (-2%)	1 (-2%)	1 (-51%)	1 (-2%)
Dry	Nov	9	8 (-8%)	9 (1%)	9 (1%)	9 (0%)	9 (2%)	6 (-35%)	9 (1%)
Dry	Dec	4	4 (14%)	4 (5%)	4 (1%)	4 (0%)	4 (-1%)	2 (-55%)	4 (0%)
C	Jan	8	10 (22%)	7 (-11%)	8 (-3%)	8 (1%)	8 (0%)	4 (-46%)	8 (-2%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	1	1 (-14%)	1 (-8%)	1 (-16%)	1 (-21%)	1 (-21%)	0 (-69%)	1 (-3%)
C	Apr	0	0 (26%)	0 (8%)	0 (28%)	0 (28%)	0 (27%)	0 (-74%)	0 (6%)
C	May	4	4 (4%)	4 (4%)	5 (6%)	5 (6%)	5 (6%)	1 (-79%)	4 (-1%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	2	2 (36%)	1 (-10%)	2 (22%)	2 (16%)	2 (16%)	0 (-76%)	1 (-5%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	7	8 (7%)	8 (5%)	7 (2%)	8 (7%)	8 (6%)	4 (-46%)	8 (7%)
C	Nov	1	1 (-1%)	1 (8%)	1 (-1%)	1 (-3%)	1 (3%)	0 (-66%)	1 (8%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-37. Loss of Smallmouth bass at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	1	2 (66%)	1 (-1%)	1 (-1%)	1 (-1%)	1 (-1%)	1 (-33%)	1 (-7%)
Wet	Feb	5	7 (33%)	5 (2%)	5 (2%)	5 (2%)	5 (2%)	2 (-53%)	5 (5%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	1	2 (66%)	1 (-2%)	1 (-2%)	1 (-2%)	1 (-1%)	0 (-47%)	1 (-9%)
AN	Jan	1	1 (128%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-11%)	1 (-8%)
AN	Feb	3	6 (76%)	4 (5%)	4 (3%)	4 (3%)	3 (1%)	3 (-15%)	4 (16%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	1	1 (62%)	1 (-3%)	1 (-4%)	1 (-6%)	1 (-6%)	0 (-52%)	1 (-15%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	1 (98%)	0 (-1%)	0 (-6%)	0 (-29%)	0 (-27%)	0 (-11%)	0 (-2%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	6	10 (58%)	6 (-1%)	6 (-5%)	6 (-4%)	6 (-1%)	7 (8%)	7 (4%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	6	8 (33%)	6 (-5%)	6 (-5%)	6 (-1%)	7 (3%)	7 (12%)	6 (-4%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-38. Loss of Smallmouth bass at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	1	1 (20%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-3%)	0 (-56%)	1 (-3%)
BN	Feb	1	1 (8%)	1 (-4%)	1 (-3%)	1 (-3%)	1 (-4%)	1 (-41%)	1 (2%)
BN	Mar	2	2 (18%)	2 (0%)	2 (5%)	1 (-33%)	1 (-36%)	1 (-32%)	2 (2%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	7	7 (9%)	7 (3%)	6 (-2%)	6 (-5%)	6 (-8%)	1 (-78%)	7 (5%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	1	1 (14%)	1 (-2%)	1 (1%)	1 (-1%)	1 (-1%)	0 (-55%)	1 (7%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-39. Loss of Spotted bass at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	2	3 (98%)	2 (-1%)	1 (-6%)	1 (-29%)	1 (-27%)	1 (-11%)	2 (-2%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (54%)	0 (10%)	0 (5%)	0 (4%)	0 (13%)	0 (48%)	0 (10%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-40. Loss of Spotted bass at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	2	3 (3%)	3 (5%)	3 (4%)	3 (6%)	3 (6%)	3 (2%)	3 (7%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	2	1 (-7%)	2 (2%)	2 (2%)	2 (1%)	2 (1%)	2 (9%)	2 (0%)
Wet	Dec	1	1 (6%)	1 (-2%)	1 (-2%)	1 (-2%)	1 (-1%)	1 (-35%)	1 (-7%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	3	3 (6%)	3 (2%)	3 (2%)	3 (2%)	3 (2%)	3 (-1%)	3 (5%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	2	1 (-8%)	1 (-1%)	1 (0%)	1 (-1%)	1 (0%)	1 (-43%)	1 (-1%)
AN	Dec	1	1 (19%)	1 (8%)	1 (9%)	1 (10%)	1 (10%)	1 (-52%)	1 (3%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	2	2 (18%)	2 (0%)	2 (5%)	1 (-33%)	1 (-36%)	1 (-32%)	2 (2%)
BN	Apr	3	3 (13%)	3 (5%)	3 (4%)	3 (-6%)	3 (-5%)	1 (-68%)	3 (6%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	3	3 (-1%)	3 (-2%)	3 (0%)	3 (-1%)	3 (-4%)	1 (-49%)	2 (-7%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	7	6 (-8%)	7 (1%)	7 (1%)	7 (0%)	7 (2%)	4 (-35%)	7 (1%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	1	1 (22%)	1 (-11%)	1 (-3%)	1 (1%)	1 (0%)	0 (-46%)	1 (-2%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	2	2 (-6%)	2 (-10%)	2 (-9%)	1 (-16%)	1 (-17%)	0 (-77%)	1 (-10%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Table I.2-41. Loss of Striped bass at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	16,810	27,895 (66%)	16,596 (-1%)	16,585 (-1%)	16,564 (-1%)	16,567 (-1%)	11,240 (-33%)	15,710 (-7%)
Wet	Feb	14,915	19,890 (33%)	15,173 (2%)	15,192 (2%)	15,139 (2%)	15,155 (2%)	7,052 (-53%)	15,588 (5%)
Wet	Mar	14,229	18,367 (29%)	15,114 (6%)	15,220 (7%)	14,802 (4%)	14,660 (3%)	5,939 (-58%)	15,956 (12%)
Wet	Apr	2,227	2,626 (18%)	2,591 (16%)	2,588 (16%)	2,374 (7%)	2,375 (7%)	780 (-65%)	2,556 (15%)
Wet	May	881	1,470 (67%)	1,480 (68%)	1,477 (68%)	1,475 (68%)	1,479 (68%)	278 (-68%)	1,447 (64%)
Wet	Jun	25,319	32,693 (29%)	26,263 (4%)	26,212 (4%)	26,410 (4%)	26,361 (4%)	25,857 (2%)	25,661 (1%)
Wet	Jul	183,062	184,154 (1%)	185,266 (1%)	185,295 (1%)	185,439 (1%)	185,326 (1%)	56,214 (-69%)	185,256 (1%)
Wet	Aug	30,054	31,115 (4%)	30,708 (2%)	30,660 (2%)	30,629 (2%)	30,670 (2%)	12,776 (-57%)	30,633 (2%)
Wet	Sep	2,889	4,314 (49%)	2,952 (2%)	2,954 (2%)	3,020 (5%)	2,994 (4%)	2,408 (-17%)	3,025 (5%)
Wet	Oct	874	1,117 (28%)	846 (-3%)	837 (-4%)	854 (-2%)	881 (1%)	776 (-11%)	869 (-1%)
Wet	Nov	22,131	21,734 (-2%)	22,327 (1%)	22,320 (1%)	22,271 (1%)	22,057 (0%)	13,732 (-38%)	22,198 (0%)
Wet	Dec	16,201	26,933 (66%)	15,899 (-2%)	15,905 (-2%)	15,899 (-2%)	15,961 (-1%)	8,579 (-47%)	14,676 (-9%)
AN	Jan	11398	25,995 (128%)	11,087 (-3%)	11,072 (-3%)	11,049 (-3%)	11,057 (-3%)	10,127 (-11%)	10,483 (-8%)
AN	Feb	10078	17,708 (76%)	10,558 (5%)	10,357 (3%)	10,378 (3%)	10,197 (1%)	8,526 (-15%)	11,690 (16%)
AN	Mar	9229	17,415 (89%)	8,847 (-4%)	8,818 (-4%)	7,537 (-18%)	7,611 (-18%)	7,524 (-18%)	9,135 (-1%)
AN	Apr	515	1,586 (208%)	1,432 (178%)	1,427 (177%)	768 (49%)	768 (49%)	715 (39%)	1,428 (177%)
AN	May	336	836 (149%)	751 (124%)	751 (124%)	657 (96%)	648 (93%)	238 (-29%)	753 (124%)
AN	Jun	18212	27,148 (49%)	17,145 (-6%)	17,243 (-5%)	16,802 (-8%)	16,684 (-8%)	15,326 (-16%)	17,120 (-6%)
AN	Jul	180809	186,324 (3%)	185,897 (3%)	185,893 (3%)	184,890 (2%)	184,994 (2%)	48,266 (-73%)	185,852 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	30027	31,886 (6%)	30,609 (2%)	30,552 (2%)	30,711 (2%)	30,605 (2%)	11,602 (-61%)	30,490 (2%)
AN	Sep	1515	3,863 (155%)	1,871 (23%)	1,864 (23%)	2,069 (37%)	2,055 (36%)	1,706 (13%)	1,872 (24%)
AN	Oct	575	1,041 (81%)	550 (-4%)	554 (-4%)	552 (-4%)	566 (-2%)	619 (8%)	553 (-4%)
AN	Nov	17017	15,775 (-7%)	17,179 (1%)	17,349 (2%)	17,282 (2%)	17,392 (2%)	11,297 (-34%)	17,145 (1%)
AN	Dec	15054	24,421 (62%)	14,636 (-3%)	14,503 (-4%)	14,204 (-6%)	14,197 (-6%)	7,217 (-52%)	12,832 (-15%)
BN	Jan	2,294	5,717 (149%)	2,222 (-3%)	2,221 (-3%)	2,235 (-3%)	2,235 (-3%)	2,308 (1%)	2,230 (-3%)
BN	Feb	3,658	6,327 (73%)	3,613 (-1%)	3,534 (-3%)	3,520 (-4%)	3,526 (-4%)	3,197 (-13%)	4,082 (12%)
BN	Mar	3,577	7,068 (98%)	3,538 (-1%)	3,353 (-6%)	2,524 (-29%)	2,616 (-27%)	3,188 (-11%)	3,491 (-2%)
BN	Apr	278	550 (98%)	483 (74%)	494 (78%)	310 (12%)	321 (15%)	292 (5%)	485 (75%)
BN	May	21,057	43,940 (109%)	40,757 (94%)	41,492 (97%)	41,235 (96%)	41,677 (98%)	20,967 (0%)	40,442 (92%)
BN	Jun	141,141	186,855 (32%)	132,424 (-6%)	138,307 (-2%)	138,160 (-2%)	136,098 (-4%)	101,891 (-28%)	126,484 (-10%)
BN	Jul	105,031	108,622 (3%)	109,063 (4%)	109,162 (4%)	106,446 (1%)	106,480 (1%)	36,008 (-66%)	107,438 (2%)
BN	Aug	14,136	14,024 (-1%)	15,133 (7%)	13,758 (-3%)	15,727 (11%)	15,816 (12%)	8,400 (-41%)	15,282 (8%)
BN	Sep	756	1,162 (54%)	835 (10%)	796 (5%)	787 (4%)	858 (13%)	1,119 (48%)	831 (10%)
BN	Oct	14,756	23,339 (58%)	14,542 (-1%)	13,994 (-5%)	14,172 (-4%)	14,664 (-1%)	15,993 (8%)	15,298 (4%)
BN	Nov	50,873	47,910 (-6%)	50,693 (0%)	50,341 (-1%)	52,418 (3%)	53,141 (4%)	31,287 (-38%)	50,546 (-1%)
BN	Dec	10,457	13,996 (34%)	9,955 (-5%)	10,101 (-3%)	10,236 (-2%)	9,661 (-8%)	5,720 (-45%)	8,166 (-22%)
Dry	Jan	10,059	18,867 (88%)	9,061 (-10%)	9,003 (-10%)	9,068 (-10%)	8,744 (-13%)	8,302 (-17%)	10,133 (1%)
Dry	Feb	1,712	3,374 (97%)	1,612 (-6%)	1,612 (-6%)	1,608 (-6%)	1,610 (-6%)	1,940 (13%)	1,926 (12%)
Dry	Mar	890	1,599 (80%)	850 (-4%)	850 (-4%)	702 (-21%)	729 (-18%)	1,138 (28%)	892 (0%)
Dry	Apr	434	764 (76%)	692 (59%)	691 (59%)	458 (6%)	460 (6%)	404 (-7%)	694 (60%)
Dry	May	4,976	10,896 (119%)	9,320 (87%)	9,361 (88%)	8,123 (63%)	7,838 (58%)	5,913 (19%)	9,356 (88%)
Dry	Jun	37,638	40,477 (8%)	35,427 (-6%)	35,169 (-7%)	32,953 (-12%)	32,283 (-14%)	16,445 (-56%)	34,542 (-8%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	15,489	16,065 (4%)	14,754 (-5%)	14,384 (-7%)	15,924 (3%)	16,125 (4%)	11,471 (-26%)	15,096 (-3%)
Dry	Aug	503	622 (24%)	538 (7%)	517 (3%)	816 (62%)	838 (66%)	1,165 (131%)	563 (12%)
Dry	Sep	171	166 (-3%)	173 (1%)	172 (0%)	167 (-3%)	168 (-2%)	429 (150%)	174 (1%)
Dry	Oct	1,971	2,619 (33%)	1,880 (-5%)	1,880 (-5%)	1,950 (-1%)	2,023 (3%)	2,211 (12%)	1,888 (-4%)
Dry	Nov	12,292	11,082 (-10%)	12,226 (-1%)	12,158 (-1%)	13,094 (7%)	13,053 (6%)	7,706 (-37%)	12,335 (0%)
Dry	Dec	23,041	31,841 (38%)	23,222 (1%)	23,093 (0%)	22,577 (-2%)	21,896 (-5%)	11,381 (-51%)	19,890 (-14%)
C	Jan	2,287	3,898 (70%)	2,146 (-6%)	1,923 (-16%)	1,870 (-18%)	1,912 (-16%)	2,351 (3%)	2,198 (-4%)
C	Feb	4,479	6,784 (51%)	4,746 (6%)	3,998 (-11%)	3,952 (-12%)	3,918 (-13%)	5,665 (26%)	5,542 (24%)
C	Mar	667	759 (14%)	643 (-4%)	530 (-21%)	555 (-17%)	568 (-15%)	756 (13%)	677 (1%)
C	Apr	221	282 (27%)	264 (20%)	247 (12%)	242 (10%)	255 (15%)	229 (4%)	284 (29%)
C	May	3,601	5,296 (47%)	4,992 (39%)	4,721 (31%)	4,753 (32%)	4,819 (34%)	4,317 (20%)	5,293 (47%)
C	Jun	3,107	4,568 (47%)	2,944 (-5%)	3,253 (5%)	3,758 (21%)	3,499 (13%)	5,811 (87%)	2,982 (-4%)
C	Jul	413	494 (20%)	373 (-10%)	387 (-6%)	1,113 (170%)	1,142 (177%)	1,396 (239%)	396 (-4%)
C	Aug	76	76 (0%)	76 (0%)	76 (0%)	164 (118%)	175 (131%)	433 (473%)	76 (0%)
C	Sep	58	69 (19%)	64 (11%)	71 (23%)	78 (35%)	78 (35%)	273 (372%)	62 (8%)
C	Oct	4,270	5,517 (29%)	4,131 (-3%)	3,831 (-10%)	3,864 (-10%)	4,131 (-3%)	5,911 (38%)	4,181 (-2%)
C	Nov	4,865	4,801 (-1%)	4,638 (-5%)	4,616 (-5%)	4,405 (-9%)	4,216 (-13%)	4,968 (2%)	4,642 (-5%)
C	Dec	7,890	10,291 (30%)	8,163 (3%)	8,066 (2%)	7,629 (-3%)	7,665 (-3%)	3,977 (-50%)	7,211 (-9%)

Table I.2-42. Loss of Striped bass at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAllVA	Alt3	Alt4
Wet	Jan	6,550	6,929 (6%)	6,536 (0%)	6,527 (0%)	6,523 (0%)	6,525 (0%)	6,673 (2%)	6,537 (0%)
Wet	Feb	1,9730	2,029 (3%)	2,067 (5%)	2,058 (4%)	2,086 (6%)	2,083 (6%)	2,018 (2%)	2,106 (7%)
Wet	Mar	1,100	1,114 (1%)	1,185 (8%)	1,167 (6%)	1,117 (2%)	1,123 (2%)	704 (-36%)	1,240 (13%)
Wet	Apr	1,392	1,400 (1%)	1,529 (10%)	1,540 (11%)	1,259 (-10%)	1,242 (-11%)	272 (-80%)	1,558 (12%)
Wet	May	86	87 (1%)	88 (2%)	88 (2%)	88 (1%)	88 (1%)	12 (-86%)	88 (2%)
Wet	Jun	6,717	6,692 (0%)	6,336 (-6%)	6,345 (-6%)	6,300 (-6%)	6,313 (-6%)	3,609 (-46%)	6,345 (-6%)
Wet	Jul	18,411	16,840 (-9%)	17,373 (-6%)	17,401 (-5%)	17,022 (-8%)	17,042 (-7%)	6,679 (-64%)	17,442 (-5%)
Wet	Aug	16,811	15,957 (-5%)	16,016 (-5%)	16,044 (-5%)	16,053 (-5%)	16,021 (-5%)	2,969 (-82%)	16,035 (-5%)
Wet	Sep	2,546	2,742 (8%)	2,514 (-1%)	2,513 (-1%)	2,510 (-1%)	2,509 (-1%)	1,131 (-56%)	2,512 (-1%)
Wet	Oct	494	533 (8%)	478 (-3%)	476 (-4%)	482 (-3%)	498 (1%)	443 (-10%)	497 (1%)
Wet	Nov	618	577 (-7%)	628 (2%)	628 (2%)	623 (1%)	621 (1%)	671 (9%)	617 (0%)
Wet	Dec	1,824	1,936 (6%)	1,793 (-2%)	1,796 (-2%)	1,797 (-2%)	1,809 (-1%)	1,186 (-35%)	1,693 (-7%)
AN	Jan	6,326	7,276 (15%)	6,262 (-1%)	6,249 (-1%)	6,260 (-1%)	6,256 (-1%)	4,102 (-35%)	6,179 (-2%)
AN	Feb	2,164	2,294 (6%)	2,201 (2%)	2,198 (2%)	2,198 (2%)	2,198 (2%)	2,135 (-1%)	2,280 (5%)
AN	Mar	1,168	1,290 (11%)	1,255 (7%)	1,255 (7%)	918 (-21%)	921 (-21%)	852 (-27%)	1,303 (12%)
AN	Apr	1,386	1,347 (-3%)	1,384 (0%)	1,384 (0%)	922 (-33%)	924 (-33%)	212 (-85%)	1,391 (0%)
AN	May	69	76 (9%)	72 (3%)	72 (3%)	70 (0%)	69 (0%)	12 (-83%)	72 (4%)
AN	Jun	5,743	6,702 (17%)	5,230 (-9%)	5,208 (-9%)	5,272 (-8%)	5,287 (-8%)	1,189 (-79%)	5,234 (-9%)
AN	Jul	17,617	18,976 (8%)	18,203 (3%)	18,220 (3%)	17,567 (0%)	17,416 (-1%)	1,534 (-91%)	18,287 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	16,009	15,704 (-2%)	16,161 (1%)	15,910 (-1%)	15,475 (-3%)	15,346 (-4%)	1,341 (-92%)	15,892 (-1%)
AN	Sep	2,130	2,621 (23%)	2,106 (-1%)	2,105 (-1%)	2,098 (-1%)	2,132 (0%)	850 (-60%)	2,111 (-1%)
AN	Oct	380	511 (34%)	379 (0%)	375 (-1%)	377 (-1%)	382 (1%)	290 (-24%)	381 (0%)
AN	Nov	610	561 (-8%)	606 (-1%)	608 (0%)	607 (-1%)	609 (0%)	348 (-43%)	604 (-1%)
AN	Dec	1,459	1,736 (19%)	1,581 (8%)	1,591 (9%)	1,602 (10%)	1,607 (10%)	697 (-52%)	1,509 (3%)
BN	Jan	4,690	5,630 (20%)	4,547 (-3%)	4,545 (-3%)	4,557 (-3%)	4,555 (-3%)	2,059 (-56%)	4,565 (-3%)
BN	Feb	4,916	5,324 (8%)	4,723 (-4%)	4,759 (-3%)	4,746 (-3%)	4,743 (-4%)	2,878 (-41%)	5,002 (2%)
BN	Mar	7,051	8,328 (18%)	7,084 (0%)	7,398 (5%)	4,692 (-33%)	4,540 (-36%)	4,788 (-32%)	7,199 (2%)
BN	Apr	991	1,115 (13%)	1,043 (5%)	1,028 (4%)	932 (-6%)	943 (-5%)	314 (-68%)	1,051 (6%)
BN	May	9,464	10,288 (9%)	9,793 (3%)	9,268 (-2%)	8,995 (-5%)	8,746 (-8%)	2,079 (-78%)	9,890 (5%)
BN	Jun	49,788	54,770 (10%)	44,213 (-11%)	43,282 (-13%)	43,061 (-14%)	43,420 (-13%)	7,628 (-85%)	46,007 (-8%)
BN	Jul	20,924	19,231 (-8%)	19,813 (-5%)	19,496 (-7%)	19,313 (-8%)	19,767 (-6%)	1,843 (-91%)	21,098 (1%)
BN	Aug	3,702	3,017 (-19%)	3,623 (-2%)	3,551 (-4%)	3,476 (-6%)	3,452 (-7%)	358 (-90%)	3,633 (-2%)
BN	Sep	519	482 (-7%)	528 (2%)	524 (1%)	523 (1%)	528 (2%)	257 (-50%)	529 (2%)
BN	Oct	771	868 (13%)	761 (-1%)	739 (-4%)	751 (-3%)	757 (-2%)	411 (-47%)	774 (0%)
BN	Nov	2,223	2,152 (-3%)	2,287 (3%)	2,246 (1%)	2,243 (1%)	2,277 (2%)	1,498 (-33%)	2,296 (3%)
BN	Dec	775	770 (-1%)	758 (-2%)	771 (0%)	765 (-1%)	742 (-4%)	396 (-49%)	717 (-7%)
Dry	Jan	421	477 (13%)	400 (-5%)	402 (-5%)	403 (-4%)	415 (-1%)	118 (-72%)	409 (-3%)
Dry	Feb	779	894 (15%)	721 (-8%)	721 (-8%)	719 (-8%)	745 (-4%)	459 (-41%)	804 (3%)
Dry	Mar	2,480	2,731 (10%)	2,463 (-1%)	2,462 (-1%)	1,963 (-21%)	1,922 (-22%)	1,436 (-42%)	2,451 (-1%)
Dry	Apr	508	555 (9%)	503 (-1%)	503 (-1%)	437 (-14%)	438 (-14%)	103 (-80%)	506 (0%)
Dry	May	22,362	24,490 (10%)	22,130 (-1%)	22,051 (-1%)	20,546 (-8%)	20,278 (-9%)	3,797 (-83%)	22,154 (-1%)
Dry	Jun	87,321	89,558 (3%)	73,070 (-16%)	73,438 (-16%)	74,738 (-14%)	75,774 (-13%)	10,117 (-88%)	75,671 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	24,123	22,723 (-6%)	21,427 (-11%)	21,737 (-10%)	22,218 (-8%)	22,547 (-7%)	2,473 (-90%)	22,209 (-8%)
Dry	Aug	1,227	1,141 (-7%)	1,115 (-9%)	1,122 (-9%)	1,129 (-8%)	1,153 (-6%)	161 (-87%)	1,154 (-6%)
Dry	Sep	596	516 (-13%)	590 (-1%)	591 (-1%)	583 (-2%)	583 (-2%)	232 (-61%)	592 (-1%)
Dry	Oct	607	693 (14%)	604 (-1%)	603 (-1%)	595 (-2%)	596 (-2%)	298 (-51%)	597 (-2%)
Dry	Nov	1,445	1,331 (-8%)	1,463 (1%)	1,462 (1%)	1,440 (0%)	1,475 (2%)	936 (-35%)	1,460 (1%)
Dry	Dec	1,888	2,154 (14%)	1,974 (5%)	1,908 (1%)	1,880 (0%)	1,860 (-1%)	851 (-55%)	1,888 (0%)
C	Jan	638	779 (22%)	568 (-11%)	616 (-3%)	646 (1%)	639 (0%)	347 (-46%)	626 (-2%)
C	Feb	436	497 (14%)	425 (-2%)	439 (1%)	433 (-1%)	433 (-1%)	197 (-55%)	465 (7%)
C	Mar	332	285 (-14%)	305 (-8%)	279 (-16%)	263 (-21%)	262 (-21%)	103 (-69%)	323 (-3%)
C	Apr	188	236 (26%)	202 (8%)	241 (28%)	241 (28%)	239 (27%)	49 (-74%)	199 (6%)
C	May	17,374	18,138 (4%)	18,146 (4%)	18,383 (6%)	18,399 (6%)	18,403 (6%)	3,618 (-79%)	17,143 (-1%)
C	Jun	21,495	22,051 (3%)	19,767 (-8%)	20,369 (-5%)	19,374 (-10%)	19,001 (-12%)	4,499 (-79%)	18,203 (-15%)
C	Jul	2,392	3,257 (36%)	2,162 (-10%)	2,912 (22%)	2,784 (16%)	2,776 (16%)	581 (-76%)	2,273 (-5%)
C	Aug	210	198 (-6%)	190 (-10%)	192 (-9%)	177 (-16%)	175 (-17%)	48 (-77%)	189 (-10%)
C	Sep	241	258 (7%)	253 (5%)	288 (20%)	281 (17%)	281 (16%)	52 (-78%)	256 (6%)
C	Oct	119	127 (7%)	125 (5%)	122 (2%)	127 (7%)	126 (6%)	64 (-46%)	127 (7%)
C	Nov	336	335 (-1%)	363 (8%)	332 (-1%)	327 (-3%)	348 (3%)	115 (-66%)	363 (8%)
C	Dec	781	995 (27%)	831 (6%)	877 (12%)	904 (16%)	914 (17%)	442 (-43%)	844 (8%)

Table I.2-43. Loss of White Sturgeon at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	6	10 (66%)	6 (-1%)	6 (-1%)	6 (-1%)	6 (-1%)	4 (-33%)	5 (-7%)
Wet	Feb	1	1 (33%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (-53%)	1 (5%)
Wet	Mar	3	3 (29%)	3 (6%)	3 (7%)	3 (4%)	3 (3%)	1 (-58%)	3 (12%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	1	2 (67%)	2 (68%)	2 (68%)	2 (68%)	2 (68%)	0 (-68%)	2 (64%)
Wet	Jun	2	3 (29%)	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (2%)	2 (1%)
Wet	Jul	4	4 (1%)	4 (1%)	4 (1%)	4 (1%)	4 (1%)	1 (-69%)	4 (1%)
Wet	Aug	3	3 (4%)	3 (2%)	3 (2%)	3 (2%)	3 (2%)	1 (-57%)	3 (2%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	1 (66%)	0 (-2%)	0 (-2%)	0 (-2%)	0 (-1%)	0 (-47%)	0 (-9%)
AN	Jan	4	9 (128%)	4 (-3%)	4 (-3%)	4 (-3%)	4 (-3%)	4 (-11%)	4 (-8%)
AN	Feb	1	1 (76%)	1 (5%)	1 (3%)	1 (3%)	1 (1%)	0 (-15%)	1 (16%)
AN	Mar	2	3 (89%)	2 (-4%)	2 (-4%)	1 (-18%)	1 (-18%)	1 (-18%)	2 (-1%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	1	1 (149%)	1 (124%)	1 (124%)	1 (96%)	1 (93%)	0 (-29%)	1 (124%)
AN	Jun	2	2 (49%)	1 (-6%)	1 (-5%)	1 (-8%)	1 (-8%)	1 (-16%)	1 (-6%)
AN	Jul	4	4 (3%)	4 (3%)	4 (3%)	4 (2%)	4 (2%)	1 (-73%)	4 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	3	3 (6%)	3 (2%)	3 (2%)	3 (2%)	3 (2%)	1 (-61%)	3 (2%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	1 (62%)	0 (-3%)	0 (-4%)	0 (-6%)	0 (-6%)	0 (-52%)	0 (-15%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	1	3 (98%)	1 (-1%)	1 (-6%)	1 (-29%)	1 (-27%)	1 (-11%)	1 (-2%)
BN	Apr	0	1 (98%)	0 (74%)	0 (78%)	0 (12%)	0 (15%)	0 (5%)	0 (75%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	6	7 (32%)	5 (-6%)	5 (-2%)	5 (-2%)	5 (-4%)	4 (-28%)	5 (-10%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	2	2 (-6%)	2 (0%)	2 (-1%)	2 (3%)	2 (4%)	1 (-38%)	2 (-1%)
BN	Dec	3	4 (34%)	3 (-5%)	3 (-3%)	3 (-2%)	3 (-8%)	2 (-45%)	2 (-22%)
Dry	Jan	2	4 (88%)	2 (-10%)	2 (-10%)	2 (-10%)	2 (-13%)	2 (-17%)	2 (1%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	1	3 (119%)	3 (87%)	3 (88%)	2 (63%)	2 (58%)	2 (19%)	3 (88%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-44. Loss of White Sturgeon at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	6	6 (1%)	6 (2%)	6 (2%)	6 (1%)	6 (1%)	1 (-86%)	6 (2%)
Wet	Jun	24	23 (0%)	22 (-6%)	22 (-6%)	22 (-6%)	22 (-6%)	13 (-46%)	22 (-6%)
Wet	Jul	13	12 (-9%)	12 (-6%)	12 (-5%)	12 (-8%)	12 (-7%)	5 (-64%)	12 (-5%)
Wet	Aug	21	20 (-5%)	20 (-5%)	20 (-5%)	20 (-5%)	20 (-5%)	4 (-82%)	20 (-5%)
Wet	Sep	12	13 (8%)	12 (-1%)	12 (-1%)	12 (-1%)	12 (-1%)	5 (-56%)	12 (-1%)
Wet	Oct	1	1 (8%)	1 (-3%)	1 (-4%)	1 (-3%)	1 (1%)	1 (-10%)	1 (1%)
Wet	Nov	3	2 (-7%)	3 (2%)	3 (2%)	3 (1%)	3 (1%)	3 (9%)	3 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	5	5 (9%)	5 (3%)	5 (3%)	5 (0%)	5 (0%)	1 (-83%)	5 (4%)
AN	Jun	20	23 (17%)	18 (-9%)	18 (-9%)	18 (-8%)	18 (-8%)	4 (-79%)	18 (-9%)
AN	Jul	12	13 (8%)	13 (3%)	13 (3%)	12 (0%)	12 (-1%)	1 (-91%)	13 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	20	19 (-2%)	20 (1%)	20 (-1%)	19 (-3%)	19 (-4%)	2 (-92%)	20 (-1%)
AN	Sep	10	12 (23%)	10 (-1%)	10 (-1%)	10 (-1%)	10 (0%)	4 (-60%)	10 (-1%)
AN	Oct	1	1 (34%)	1 (0%)	1 (-1%)	1 (-1%)	1 (1%)	1 (-24%)	1 (0%)
AN	Nov	3	2 (-8%)	3 (-1%)	3 (0%)	3 (-1%)	3 (0%)	1 (-43%)	3 (-1%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	2	2 (8%)	2 (-4%)	2 (-3%)	2 (-3%)	2 (-4%)	1 (-41%)	2 (2%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	1	2 (9%)	1 (3%)	1 (-2%)	1 (-5%)	1 (-8%)	0 (-78%)	2 (5%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	13	15 (13%)	13 (-1%)	13 (-4%)	13 (-3%)	13 (-2%)	7 (-47%)	13 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	2	2 (-1%)	2 (-2%)	2 (0%)	2 (-1%)	2 (-4%)	1 (-49%)	2 (-7%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	1	1 (-8%)	1 (1%)	1 (1%)	1 (0%)	1 (2%)	1 (-35%)	1 (1%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-45. Loss of California Roach at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (51%)	0 (6%)	0 (-11%)	0 (-12%)	0 (-13%)	0 (26%)	0 (24%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-46. Loss of California Roach at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-47. Loss of Threadfin Shad at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	3,606	5,984 (66%)	3,560 (-1%)	3,558 (-1%)	3,553 (-1%)	3,554 (-1%)	2,411 (-33%)	3,370 (-7%)
Wet	Feb	1,577	2,103 (33%)	1,605 (2%)	1,607 (2%)	1,601 (2%)	1,603 (2%)	746 (-53%)	1,648 (5%)
Wet	Mar	228	294 (29%)	242 (6%)	244 (7%)	237 (4%)	235 (3%)	95 (-58%)	255 (12%)
Wet	Apr	231	273 (18%)	269 (16%)	269 (16%)	247 (7%)	247 (7%)	81 (-65%)	266 (15%)
Wet	May	916	1,528 (67%)	1,538 (68%)	1,536 (68%)	1,534 (68%)	1,538 (68%)	289 (-68%)	1,504 (64%)
Wet	Jun	18,817	24,298 (29%)	19,519 (4%)	19,481 (4%)	19,628 (4%)	19,592 (4%)	19,217 (2%)	19,072 (1%)
Wet	Jul	221,656	222,978 (1%)	224,325 (1%)	224,360 (1%)	224,535 (1%)	224,398 (1%)	68,065 (-69%)	224,313 (1%)
Wet	Aug	218,346	226,055 (4%)	223,102 (2%)	222,753 (2%)	222,528 (2%)	222,825 (2%)	92,819 (-57%)	222,555 (2%)
Wet	Sep	21,491	32,094 (49%)	21,959 (2%)	21,973 (2%)	22,467 (5%)	22,277 (4%)	17,911 (-17%)	22,507 (5%)
Wet	Oct	6,983	8,927 (28%)	6,761 (-3%)	6,695 (-4%)	6,825 (-2%)	7,044 (1%)	6,205 (-11%)	6,943 (-1%)
Wet	Nov	4,385	4,306 (-2%)	4,423 (1%)	4,422 (1%)	4,412 (1%)	4,370 (0%)	2,721 (-38%)	4,398 (0%)
Wet	Dec	3,828	6,364 (66%)	3,757 (-2%)	3,759 (-2%)	3,757 (-2%)	3,772 (-1%)	2,027 (-47%)	3,468 (-9%)
AN	Jan	2445	5,577 (128%)	2,379 (-3%)	2,375 (-3%)	2,370 (-3%)	2,372 (-3%)	2,172 (-11%)	2,249 (-8%)
AN	Feb	1066	1,873 (76%)	1,117 (5%)	1,095 (3%)	1,098 (3%)	1,078 (1%)	902 (-15%)	1,236 (16%)
AN	Mar	148	279 (89%)	142 (-4%)	141 (-4%)	121 (-18%)	122 (-18%)	120 (-18%)	146 (-1%)
AN	Apr	54	165 (208%)	149 (178%)	148 (177%)	80 (49%)	80 (49%)	74 (39%)	148 (177%)
AN	May	349	869 (149%)	781 (124%)	781 (124%)	683 (96%)	673 (93%)	247 (-29%)	783 (124%)
AN	Jun	13535	20,177 (49%)	12,742 (-6%)	12,815 (-5%)	12,487 (-8%)	12,400 (-8%)	11,390 (-16%)	12,724 (-6%)
AN	Jul	218928	225,606 (3%)	225,090 (3%)	225,084 (3%)	223,870 (2%)	223,996 (2%)	58,442 (-73%)	225,035 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	218149	231,662 (6%)	222,381 (2%)	221,965 (2%)	223,120 (2%)	222,350 (2%)	84,291 (-61%)	221,515 (2%)
AN	Sep	11271	28,741 (155%)	13,918 (23%)	13,865 (23%)	15,390 (37%)	15,291 (36%)	12,689 (13%)	13,923 (24%)
AN	Oct	4593	8,321 (81%)	4,396 (-4%)	4,430 (-4%)	4,410 (-4%)	4,521 (-2%)	4,952 (8%)	4,417 (-4%)
AN	Nov	3371	3,125 (-7%)	3,403 (1%)	3,437 (2%)	3,424 (2%)	3,446 (2%)	2,238 (-34%)	3,397 (1%)
AN	Dec	3557	5,771 (62%)	3,459 (-3%)	3,427 (-4%)	3,356 (-6%)	3,355 (-6%)	1,706 (-52%)	3,032 (-15%)
BN	Jan	369	920 (149%)	357 (-3%)	357 (-3%)	360 (-3%)	360 (-3%)	371 (1%)	359 (-3%)
BN	Feb	650	1,124 (73%)	642 (-1%)	628 (-3%)	625 (-4%)	626 (-4%)	568 (-13%)	725 (12%)
BN	Mar	193	381 (98%)	190 (-1%)	181 (-6%)	136 (-29%)	141 (-27%)	172 (-11%)	188 (-2%)
BN	Apr	52	104 (98%)	91 (74%)	93 (78%)	58 (12%)	60 (15%)	55 (5%)	91 (75%)
BN	May	4,015	8,378 (109%)	7,771 (94%)	7,911 (97%)	7,862 (96%)	7,946 (98%)	3,998 (0%)	7,711 (92%)
BN	Jun	93,961	124,394 (32%)	88,158 (-6%)	92,074 (-2%)	91,976 (-2%)	90,604 (-4%)	67,831 (-28%)	84,203 (-10%)
BN	Jul	757,516	783,412 (3%)	786,594 (4%)	787,307 (4%)	767,719 (1%)	767,970 (1%)	259,697 (-66%)	774,875 (2%)
BN	Aug	236,786	234,897 (-1%)	253,488 (7%)	230,443 (-3%)	263,425 (11%)	264,915 (12%)	140,709 (-41%)	255,972 (8%)
BN	Sep	24,519	37,673 (54%)	27,058 (10%)	25,799 (5%)	25,513 (4%)	27,815 (13%)	36,258 (48%)	26,942 (10%)
BN	Oct	144,846	229,098 (58%)	142,748 (-1%)	137,368 (-5%)	139,108 (-4%)	143,942 (-1%)	156,987 (8%)	150,168 (4%)
BN	Nov	12,735	11,993 (-6%)	12,690 (0%)	12,602 (-1%)	13,122 (3%)	13,303 (4%)	7,832 (-38%)	12,653 (-1%)
BN	Dec	3,036	4,063 (34%)	2,890 (-5%)	2,933 (-3%)	2,972 (-2%)	2,805 (-8%)	1,661 (-45%)	2,371 (-22%)
Dry	Jan	3,216	6,033 (88%)	2,897 (-10%)	2,879 (-10%)	2,899 (-10%)	2,796 (-13%)	2,654 (-17%)	3,240 (1%)
Dry	Feb	45	88 (97%)	42 (-6%)	42 (-6%)	42 (-6%)	42 (-6%)	51 (13%)	50 (12%)
Dry	Mar	26	47 (80%)	25 (-4%)	25 (-4%)	21 (-21%)	22 (-18%)	34 (28%)	26 (0%)
Dry	Apr	72	127 (76%)	115 (59%)	115 (59%)	76 (6%)	77 (6%)	67 (-7%)	116 (60%)
Dry	May	581	1,272 (119%)	1,088 (87%)	1,093 (88%)	948 (63%)	915 (58%)	690 (19%)	1,092 (88%)
Dry	Jun	52,031	55,955 (8%)	48,974 (-6%)	48,617 (-7%)	45,554 (-12%)	44,629 (-14%)	22,734 (-56%)	47,750 (-8%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	542,585	562,762 (4%)	516,830 (-5%)	503,893 (-7%)	557,830 (3%)	564,859 (4%)	401,844 (-26%)	528,827 (-3%)
Dry	Aug	58,330	72,073 (24%)	62,317 (7%)	59,907 (3%)	94,611 (62%)	97,061 (66%)	134,983 (131%)	65,255 (12%)
Dry	Sep	25,127	24,408 (-3%)	25,371 (1%)	25,248 (0%)	24,411 (-3%)	24,599 (-2%)	62,905 (150%)	25,494 (1%)
Dry	Oct	3,932	5,224 (33%)	3,750 (-5%)	3,750 (-5%)	3,889 (-1%)	4,036 (3%)	4,411 (12%)	3,766 (-4%)
Dry	Nov	11,701	10,549 (-10%)	11,638 (-1%)	11,574 (-1%)	12,464 (7%)	12,426 (6%)	7,336 (-37%)	11,742 (0%)
Dry	Dec	5,598	7,736 (38%)	5,642 (1%)	5,610 (0%)	5,485 (-2%)	5,319 (-5%)	2,765 (-51%)	4,832 (-14%)
C	Jan	676	1,152 (70%)	634 (-6%)	568 (-16%)	553 (-18%)	565 (-16%)	695 (3%)	650 (-4%)
C	Feb	335	508 (51%)	356 (6%)	299 (-11%)	296 (-12%)	293 (-13%)	424 (26%)	415 (24%)
C	Mar	68	78 (14%)	66 (-4%)	54 (-21%)	57 (-17%)	58 (-15%)	77 (13%)	69 (1%)
C	Apr	27	35 (27%)	33 (20%)	30 (12%)	30 (10%)	31 (15%)	28 (4%)	35 (29%)
C	May	344	506 (47%)	477 (39%)	451 (31%)	455 (32%)	461 (34%)	413 (20%)	506 (47%)
C	Jun	5,245	7,710 (47%)	4,970 (-5%)	5,490 (5%)	6,344 (21%)	5,906 (13%)	9,809 (87%)	5,034 (-4%)
C	Jul	9,347	11,204 (20%)	8,451 (-10%)	8,768 (-6%)	25,219 (170%)	25,883 (177%)	31,644 (239%)	8,963 (-4%)
C	Aug	13,707	13,707 (0%)	13,707 (0%)	13,707 (0%)	29,833 (118%)	31,693 (131%)	78,565 (473%)	13,707 (0%)
C	Sep	25,769	30,655 (19%)	28,618 (11%)	31,667 (23%)	34,783 (35%)	34,676 (35%)	121,579 (372%)	27,766 (8%)
C	Oct	39,254	50,718 (29%)	37,970 (-3%)	35,213 (-10%)	35,522 (-10%)	37,977 (-3%)	54,337 (38%)	38,436 (-2%)
C	Nov	58,261	57,495 (-1%)	55,542 (-5%)	55,285 (-5%)	52,754 (-9%)	50,494 (-13%)	59,494 (2%)	55,593 (-5%)
C	Dec	5,173	6,747 (30%)	5,352 (3%)	5,289 (2%)	5,002 (-3%)	5,026 (-3%)	2,608 (-50%)	4,728 (-9%)

Table I.2-48. Loss of Threadfin Shad at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAllVA	Alt3	Alt4
Wet	Jan	20,069	21,233 (6%)	20,027 (0%)	19,998 (0%)	19,987 (0%)	19,992 (0%)	20,445 (2%)	20,029 (0%)
Wet	Feb	3,931	4,042 (3%)	4,119 (5%)	4,099 (4%)	4,156 (6%)	4,149 (6%)	4,020 (2%)	4,195 (7%)
Wet	Mar	769	778 (1%)	828 (8%)	815 (6%)	780 (2%)	785 (2%)	492 (-36%)	867 (13%)
Wet	Apr	968	973 (1%)	1,063 (10%)	1,071 (11%)	875 (-10%)	863 (-11%)	189 (-80%)	1,083 (12%)
Wet	May	678	683 (1%)	689 (2%)	688 (2%)	688 (1%)	688 (1%)	98 (-86%)	691 (2%)
Wet	Jun	23,942	23,851 (0%)	22,584 (-6%)	22,614 (-6%)	22,455 (-6%)	22,499 (-6%)	12,862 (-46%)	22,616 (-6%)
Wet	Jul	152,683	139,659 (-9%)	144,080 (-6%)	144,313 (-5%)	141,164 (-8%)	141,333 (-7%)	55,392 (-64%)	144,652 (-5%)
Wet	Aug	265,053	251,589 (-5%)	252,515 (-5%)	252,957 (-5%)	253,097 (-5%)	252,589 (-5%)	46,811 (-82%)	252,814 (-5%)
Wet	Sep	99,433	107,095 (8%)	98,206 (-1%)	98,165 (-1%)	98,029 (-1%)	98,005 (-1%)	44,183 (-56%)	98,106 (-1%)
Wet	Oct	37,129	40,027 (8%)	35,883 (-3%)	35,715 (-4%)	36,187 (-3%)	37,431 (1%)	33,275 (-10%)	37,337 (1%)
Wet	Nov	78,493	73,346 (-7%)	79,811 (2%)	79,771 (2%)	79,131 (1%)	78,915 (1%)	85,215 (9%)	78,432 (0%)
Wet	Dec	26,763	28,408 (6%)	26,302 (-2%)	26,345 (-2%)	26,358 (-2%)	26,536 (-1%)	17,399 (-35%)	24,833 (-7%)
AN	Jan	19,384	22,294 (15%)	19,188 (-1%)	19,147 (-1%)	19,183 (-1%)	19,169 (-1%)	12,569 (-35%)	18,933 (-2%)
AN	Feb	4,312	4,569 (6%)	4,385 (2%)	4,379 (2%)	4,378 (2%)	4,379 (2%)	4,254 (-1%)	4,541 (5%)
AN	Mar	816	901 (11%)	876 (7%)	876 (7%)	641 (-21%)	643 (-21%)	595 (-27%)	910 (12%)
AN	Apr	963	936 (-3%)	962 (0%)	962 (0%)	641 (-33%)	642 (-33%)	147 (-85%)	966 (0%)
AN	May	545	596 (9%)	563 (3%)	563 (3%)	546 (0%)	543 (0%)	90 (-83%)	565 (4%)
AN	Jun	20,470	23,889 (17%)	18,641 (-9%)	18,561 (-9%)	18,790 (-8%)	18,844 (-8%)	4,236 (-79%)	18,655 (-9%)
AN	Jul	146,103	157,368 (8%)	150,958 (3%)	151,101 (3%)	145,690 (0%)	144,434 (-1%)	12,726 (-91%)	151,653 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	252,401	247,589 (-2%)	254,799 (1%)	250,846 (-1%)	243,987 (-3%)	241,946 (-4%)	21,139 (-92%)	250,563 (-1%)
AN	Sep	83,189	102,387 (23%)	82,269 (-1%)	82,219 (-1%)	81,946 (-1%)	83,296 (0%)	33,220 (-60%)	82,473 (-1%)
AN	Oct	28,549	38,350 (34%)	28,466 (0%)	28,148 (-1%)	28,306 (-1%)	28,704 (1%)	21,769 (-24%)	28,645 (0%)
AN	Nov	77,539	71,260 (-8%)	77,044 (-1%)	77,235 (0%)	77,089 (-1%)	77,318 (0%)	44,228 (-43%)	76,725 (-1%)
AN	Dec	21,398	25,472 (19%)	23,188 (8%)	23,341 (9%)	23,499 (10%)	23,570 (10%)	10,229 (-52%)	22,134 (3%)
BN	Jan	7,432	8,920 (20%)	7,205 (-3%)	7,202 (-3%)	7,220 (-3%)	7,218 (-3%)	3,262 (-56%)	7,234 (-3%)
BN	Feb	5,133	5,559 (8%)	4,931 (-4%)	4,968 (-3%)	4,954 (-3%)	4,952 (-4%)	3,005 (-41%)	5,222 (2%)
BN	Mar	2,328	2,750 (18%)	2,339 (0%)	2,443 (5%)	1,549 (-33%)	1,499 (-36%)	1,581 (-32%)	2,377 (2%)
BN	Apr	361	406 (13%)	380 (5%)	374 (4%)	339 (-6%)	343 (-5%)	114 (-68%)	382 (6%)
BN	May	330	358 (9%)	341 (3%)	323 (-2%)	313 (-5%)	305 (-8%)	72 (-78%)	344 (5%)
BN	Jun	39,842	43,829 (10%)	35,380 (-11%)	34,635 (-13%)	34,459 (-14%)	34,746 (-13%)	6,104 (-85%)	36,816 (-8%)
BN	Jul	277,830	255,349 (-8%)	263,080 (-5%)	258,865 (-7%)	256,434 (-8%)	262,470 (-6%)	24,474 (-91%)	280,142 (1%)
BN	Aug	447,299	364,502 (-19%)	437,809 (-2%)	429,124 (-4%)	420,061 (-6%)	417,151 (-7%)	43,215 (-90%)	439,021 (-2%)
BN	Sep	142,865	132,688 (-7%)	145,337 (2%)	144,391 (1%)	143,915 (1%)	145,500 (2%)	70,793 (-50%)	145,594 (2%)
BN	Oct	18,773	21,141 (13%)	18,543 (-1%)	18,007 (-4%)	18,292 (-3%)	18,426 (-2%)	10,009 (-47%)	18,840 (0%)
BN	Nov	82,686	80,024 (-3%)	85,045 (3%)	83,551 (1%)	83,437 (1%)	84,676 (2%)	55,715 (-33%)	85,385 (3%)
BN	Dec	11,462	11,395 (-1%)	11,209 (-2%)	11,414 (0%)	11,313 (-1%)	10,984 (-4%)	5,859 (-49%)	10,604 (-7%)
Dry	Jan	7,286	8,258 (13%)	6,918 (-5%)	6,957 (-5%)	6,971 (-4%)	7,185 (-1%)	2,046 (-72%)	7,074 (-3%)
Dry	Feb	1,668	1,913 (15%)	1,542 (-8%)	1,542 (-8%)	1,539 (-8%)	1,593 (-4%)	983 (-41%)	1,720 (3%)
Dry	Mar	595	656 (10%)	591 (-1%)	591 (-1%)	471 (-21%)	462 (-22%)	345 (-42%)	588 (-1%)
Dry	Apr	797	871 (9%)	790 (-1%)	789 (-1%)	687 (-14%)	687 (-14%)	161 (-80%)	795 (0%)
Dry	May	185	202 (10%)	183 (-1%)	182 (-1%)	170 (-8%)	167 (-9%)	31 (-83%)	183 (-1%)
Dry	Jun	36,894	37,840 (3%)	30,873 (-16%)	31,029 (-16%)	31,578 (-14%)	32,016 (-13%)	4,274 (-88%)	31,972 (-13%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	874,982	824,208 (-6%)	777,202 (-11%)	788,447 (-10%)	805,894 (-8%)	817,824 (-7%)	89,682 (-90%)	805,544 (-8%)
Dry	Aug	105,528	98,116 (-7%)	95,925 (-9%)	96,529 (-9%)	97,140 (-8%)	99,203 (-6%)	13,864 (-87%)	99,288 (-6%)
Dry	Sep	55,240	47,876 (-13%)	54,726 (-1%)	54,809 (-1%)	54,096 (-2%)	54,095 (-2%)	21,546 (-61%)	54,931 (-1%)
Dry	Oct	860,947	982,865 (14%)	856,012 (-1%)	855,716 (-1%)	843,364 (-2%)	845,993 (-2%)	422,033 (-51%)	846,545 (-2%)
Dry	Nov	122,527	112,848 (-8%)	124,049 (1%)	124,008 (1%)	122,080 (0%)	125,128 (2%)	79,353 (-35%)	123,848 (1%)
Dry	Dec	19,655	22,420 (14%)	20,549 (5%)	19,861 (1%)	19,574 (0%)	19,360 (-1%)	8,857 (-55%)	19,651 (0%)
C	Jan	1,482	1,808 (22%)	1,319 (-11%)	1,431 (-3%)	1,501 (1%)	1,483 (0%)	807 (-46%)	1,454 (-2%)
C	Feb	400	457 (14%)	391 (-2%)	403 (1%)	398 (-1%)	397 (-1%)	181 (-55%)	427 (7%)
C	Mar	83	71 (-14%)	76 (-8%)	70 (-16%)	66 (-21%)	65 (-21%)	26 (-69%)	81 (-3%)
C	Apr	88	110 (26%)	94 (8%)	113 (28%)	112 (28%)	111 (27%)	23 (-74%)	93 (6%)
C	May	103	107 (4%)	107 (4%)	109 (6%)	109 (6%)	109 (6%)	21 (-79%)	101 (-1%)
C	Jun	29,370	30,130 (3%)	27,010 (-8%)	27,831 (-5%)	26,473 (-10%)	25,963 (-12%)	6,147 (-79%)	24,872 (-15%)
C	Jul	150,668	205,112 (36%)	136,158 (-10%)	183,406 (22%)	175,330 (16%)	174,831 (16%)	36,586 (-76%)	143,134 (-5%)
C	Aug	90,817	85,361 (-6%)	82,029 (-10%)	82,759 (-9%)	76,642 (-16%)	75,712 (-17%)	20,889 (-77%)	81,519 (-10%)
C	Sep	59,403	63,533 (7%)	62,512 (5%)	71,142 (20%)	69,392 (17%)	69,197 (16%)	12,867 (-78%)	63,191 (6%)
C	Oct	11,924	12,762 (7%)	12,488 (5%)	12,181 (2%)	12,741 (7%)	12,632 (6%)	6,382 (-46%)	12,703 (7%)
C	Nov	6,950	6,914 (-1%)	7,504 (8%)	6,857 (-1%)	6,762 (-3%)	7,189 (3%)	2,372 (-66%)	7,495 (8%)
C	Dec	3,601	4,590 (27%)	3,833 (6%)	4,045 (12%)	4,171 (16%)	4,214 (17%)	2,038 (-43%)	3,891 (8%)



Table I.2-49. Loss of Hitch at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	1	2 (18%)	2 (16%)	2 (16%)	1 (7%)	1 (7%)	0 (-65%)	2 (15%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	1 (208%)	1 (178%)	1 (177%)	0 (49%)	0 (49%)	0 (39%)	1 (177%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	0	1 (98%)	0 (-1%)	0 (-6%)	0 (-29%)	0 (-27%)	0 (-11%)	0 (-2%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	1	2 (32%)	1 (-6%)	1 (-2%)	1 (-2%)	1 (-4%)	1 (-28%)	1 (-10%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	3	3 (-1%)	3 (7%)	3 (-3%)	3 (11%)	3 (12%)	2 (-41%)	3 (8%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	2	2 (-6%)	2 (0%)	2 (-1%)	2 (3%)	2 (4%)	1 (-38%)	2 (-1%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	1	1 (33%)	1 (-5%)	1 (-5%)	1 (-1%)	1 (3%)	1 (12%)	1 (-4%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-50. Loss of Hitch at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	3	3 (1%)	3 (10%)	3 (11%)	3 (-10%)	3 (-11%)	1 (-80%)	3 (12%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	3	3 (-3%)	3 (0%)	3 (0%)	2 (-33%)	2 (-33%)	0 (-85%)	3 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (20%)	0 (-3%)	0 (-3%)	0 (-3%)	0 (-3%)	0 (-56%)	0 (-3%)
BN	Feb	0	0 (8%)	0 (-4%)	0 (-3%)	0 (-3%)	0 (-4%)	0 (-41%)	0 (2%)
BN	Mar	1	1 (18%)	1 (0%)	1 (5%)	1 (-33%)	1 (-36%)	1 (-32%)	1 (2%)
BN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-51. Loss of Starry Flounder at SWP Banks Pumping Plant for the No Action Alternative (NAA), Alternative 1 (Alt1), 4 components of Alternative 2 (Alt2), Alternative 3 (Alt3), and Alternative 4 (Alt4) averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	2	4 (66%)	2 (-1%)	2 (-1%)	2 (-1%)	2 (-1%)	1 (-33%)	2 (-7%)
Wet	Feb	1	1 (33%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (-53%)	1 (5%)
Wet	Mar	10	13 (29%)	10 (6%)	10 (7%)	10 (4%)	10 (3%)	4 (-58%)	11 (12%)
Wet	Apr	8	10 (18%)	10 (16%)	10 (16%)	9 (7%)	9 (7%)	3 (-65%)	9 (15%)
Wet	May	10	17 (67%)	18 (68%)	18 (68%)	18 (68%)	18 (68%)	3 (-68%)	17 (64%)
Wet	Jun	17	22 (29%)	17 (4%)	17 (4%)	17 (4%)	17 (4%)	17 (2%)	17 (1%)
Wet	Jul	14	14 (1%)	14 (1%)	15 (1%)	15 (1%)	15 (1%)	4 (-69%)	14 (1%)
Wet	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	2	4 (66%)	2 (-2%)	2 (-2%)	2 (-2%)	2 (-1%)	1 (-47%)	2 (-9%)
AN	Jan	1	3 (128%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-3%)	1 (-11%)	1 (-8%)
AN	Feb	1	1 (76%)	1 (5%)	1 (3%)	1 (3%)	1 (1%)	1 (-15%)	1 (16%)
AN	Mar	6	12 (89%)	6 (-4%)	6 (-4%)	5 (-18%)	5 (-18%)	5 (-18%)	6 (-1%)
AN	Apr	2	6 (208%)	5 (178%)	5 (177%)	3 (49%)	3 (49%)	3 (39%)	5 (177%)
AN	May	4	10 (149%)	9 (124%)	9 (124%)	8 (96%)	8 (93%)	3 (-29%)	9 (124%)
AN	Jun	12	18 (49%)	11 (-6%)	11 (-5%)	11 (-8%)	11 (-8%)	10 (-16%)	11 (-6%)
AN	Jul	14	15 (3%)	15 (3%)	15 (3%)	14 (2%)	14 (2%)	4 (-73%)	15 (3%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	2	4 (62%)	2 (-3%)	2 (-4%)	2 (-6%)	2 (-6%)	1 (-52%)	2 (-15%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	3	5 (73%)	3 (-1%)	3 (-3%)	3 (-4%)	3 (-4%)	3 (-13%)	3 (12%)
BN	Mar	1	2 (98%)	1 (-1%)	1 (-6%)	1 (-29%)	1 (-27%)	1 (-11%)	1 (-2%)
BN	Apr	6	12 (98%)	10 (74%)	11 (78%)	7 (12%)	7 (15%)	6 (5%)	11 (75%)
BN	May	25	52 (109%)	48 (94%)	49 (97%)	48 (96%)	49 (98%)	25 (0%)	47 (92%)
BN	Jun	97	128 (32%)	91 (-6%)	95 (-2%)	95 (-2%)	93 (-4%)	70 (-28%)	87 (-10%)
BN	Jul	4	4 (3%)	4 (4%)	4 (4%)	4 (1%)	4 (1%)	1 (-66%)	4 (2%)
BN	Aug	15	14 (-1%)	16 (7%)	14 (-3%)	16 (11%)	16 (12%)	9 (-41%)	16 (8%)
BN	Sep	0	0 (54%)	0 (10%)	0 (5%)	0 (4%)	0 (13%)	0 (48%)	0 (10%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	1	1 (80%)	1 (-4%)	1 (-4%)	1 (-21%)	1 (-18%)	1 (28%)	1 (0%)
Dry	Apr	6	11 (76%)	10 (59%)	10 (59%)	6 (6%)	6 (6%)	6 (-7%)	10 (60%)
Dry	May	5	10 (119%)	9 (87%)	9 (88%)	7 (63%)	7 (58%)	5 (19%)	9 (88%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)



Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	2	2 (4%)	2 (-5%)	2 (-7%)	2 (3%)	2 (4%)	2 (-26%)	2 (-3%)
Dry	Aug	1	1 (24%)	1 (7%)	1 (3%)	1 (62%)	1 (66%)	1 (131%)	1 (12%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	1	1 (-10%)	1 (-1%)	1 (-1%)	1 (7%)	1 (6%)	1 (-37%)	1 (0%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Oct	1	1 (29%)	1 (-3%)	1 (-10%)	1 (-10%)	1 (-3%)	1 (38%)	1 (-2%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table I.2-52. Loss of Starry Flounder at CVP Jones Pumping Plant for the No Action Alternative (NAA), Alternatives 1 3 and 4 (ALT1, ALT 3, ALT4), and 4 components of Alternative 2 (ALT2), averaged by water year type and month, based on the salvage-density method. Percentage values in parentheses indicate the difference between NAA and each alternative. Absolute and percentage values are rounded.

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Wet	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Jun	5	5 (0%)	5 (-6%)	5 (-6%)	5 (-6%)	5 (-6%)	3 (-46%)	5 (-6%)
Wet	Jul	2	2 (-9%)	2 (-6%)	2 (-5%)	2 (-8%)	2 (-7%)	1 (-64%)	2 (-5%)
Wet	Aug	3	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	2 (-5%)	0 (-82%)	2 (-5%)
Wet	Sep	3	3 (8%)	3 (-1%)	3 (-1%)	3 (-1%)	3 (-1%)	1 (-56%)	3 (-1%)
Wet	Oct	1	1 (8%)	1 (-3%)	1 (-4%)	1 (-3%)	1 (1%)	1 (-10%)	1 (1%)
Wet	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Wet	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Jun	4	5 (17%)	4 (-9%)	4 (-9%)	4 (-8%)	4 (-8%)	1 (-79%)	4 (-9%)
AN	Jul	2	2 (8%)	2 (3%)	2 (3%)	2 (0%)	2 (-1%)	0 (-91%)	2 (4%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
AN	Aug	2	2 (-2%)	2 (1%)	2 (-1%)	2 (-3%)	2 (-4%)	0 (-92%)	2 (-1%)
AN	Sep	2	3 (23%)	2 (-1%)	2 (-1%)	2 (-1%)	2 (0%)	1 (-60%)	2 (-1%)
AN	Oct	1	1 (34%)	1 (0%)	1 (-1%)	1 (-1%)	1 (1%)	1 (-24%)	1 (0%)
AN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
AN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Mar	4	5 (18%)	4 (0%)	4 (5%)	3 (-33%)	3 (-36%)	3 (-32%)	4 (2%)
BN	Apr	3	4 (13%)	4 (5%)	4 (4%)	3 (-6%)	3 (-5%)	1 (-68%)	4 (6%)
BN	May	7	8 (9%)	8 (3%)	7 (-2%)	7 (-5%)	7 (-8%)	2 (-78%)	8 (5%)
BN	Jun	6	7 (10%)	5 (-11%)	5 (-13%)	5 (-14%)	5 (-13%)	1 (-85%)	6 (-8%)
BN	Jul	3	3 (-8%)	3 (-5%)	3 (-7%)	3 (-8%)	3 (-6%)	0 (-91%)	3 (1%)
BN	Aug	5	4 (-19%)	5 (-2%)	5 (-4%)	5 (-6%)	5 (-7%)	1 (-90%)	5 (-2%)
BN	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
BN	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Jan	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	May	6	6 (10%)	6 (-1%)	6 (-1%)	5 (-8%)	5 (-9%)	1 (-83%)	6 (-1%)
Dry	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Water Year Type	Month	NAA	Alt1	Alt2 wTUCPwoVA	Alt2 woTUCPwoVA	Alt2 woTUCPDeltaVA	Alt2 woTUCPAIIVA	Alt3	Alt4
Dry	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Sep	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Dry	Nov	4	3 (-8%)	4 (1%)	4 (1%)	4 (0%)	4 (2%)	2 (-35%)	4 (1%)
Dry	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jan	3	4 (22%)	3 (-11%)	3 (-3%)	3 (1%)	3 (0%)	2 (-46%)	3 (-2%)
C	Feb	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Mar	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Apr	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	May	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jun	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Jul	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Aug	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Sep	1	1 (7%)	1 (5%)	1 (20%)	1 (17%)	1 (16%)	0 (-78%)	1 (6%)
C	Oct	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Nov	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
C	Dec	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

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