Appendix 6C
Upper Sacramento River
Daily River Flow and Operations Modeling

Line items and numbers identified or noted as “No Action Alternative” represent the “Existing Conditions/No Project/No Action Condition” (described in Chapter 2 Alternatives Analysis). Table numbering may not be consecutive for all appendixes.

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APPENDIX 6C
Upper Sacramento River
Daily River Flow and Operations Modeling

6C.1 Overview and Description

This document provides the summary of modeling performed to simulate daily flow and operations in the reservoirs, rivers and other conveyance features that are part of the Central Valley Project (CVP) and the Sites Reservoir Project (Project) for the Project Draft Environmental Impact Report/Environmental Impact Statement (Project DEIR/EIS). It includes a description of the Upper Sacramento River Daily Operations Model (USRDOM) and results used in the detailed evaluation of alternatives. USRDOM results are used or referenced in:

- Chapter 6 Surface Water Resources
- Chapter 7 Surface Water Quality
- Chapter 8 Fluvial Geomorphology and Riparian Habitat
- Chapter 12 Aquatic Biological Resources

6C.1.1 Introduction

USRDOM simulates daily flow and storage conditions in the upper Sacramento River including Trinity basin, Sacramento River from Shasta Lake to Knights Landing and Colusa Basin including the Project conveyance and storage features. The analytical framework used to evaluate the alternatives is summarized in Chapter 5 Guide to the Resource Analyses and Appendix 6B Water Resources System Modeling. Assumptions used in modeling the alternatives are summarized in Appendix 6A Modeling of Alternatives. USRDOM utilizes results from CALSIM II to evaluate the impacts of changing diversion, in-basin use and Delta operations under projected conditions within current or future regulatory and operational regimes. It couples the downstream monthly operational decisions in CALSIM II to a simulation of the associated sub-monthly operational response at Lake Shasta depending on the inflows. It is particularly useful in verifying the CALSIM II simulated river conditions and the availability of excess flows to fill the Sites Reservoir under the capacity and operational constraints of the three intakes at the Red Bluff, Hamilton City and Delevan locations.

Development of the USRDOM, calibration and verification, its use in planning simulations and application to DEIR/EIS Alternatives evaluation is documented in detail in the final USRDOM Development, Calibration, and Application report prepared by CH2M HILL for Reclamation (CH2M HILL, 2011).

6C.1.2 Objective

USRDOM is used in several ways as part of modeling of the operations of DEIR/EIS Alternatives. It was used to test and finalize the CALSIM II operations for the Project alternatives. The main objective of using USRDOM in the DEIR/EIS was to simulate daily flows to inform CALSIM II (monthly) about the potential restrictions on the diversions due to pulse flow conditions. It was also used to evaluate storage conditions in Lake Shasta and Sites Reservoir, flow conditions on a daily-weekly time scale along the Sacramento River from Keswick Dam to Knights Landing and in the Colusa Basin conveyance. The

results from USRDOM are used for input into temperature, biological and flow regime models to evaluate Project alternatives.

6C.1.3 Project Intake Operations Assumptions

The detailed modeling assumptions used for the alternatives modeled for the DEIR/EIS are described in Appendix 6A Modeling of Alternatives. This section briefly describes the key operational assumptions used in the USRDOM model for evaluating the alternatives.

The operational assumptions governing the diversions at the three Project intakes, namely existing Tehama Colusa Canal (TCC) Intake, Glenn Colusa Canal (GCC) Intake and the Delevan Pipeline Intake include:

- Restrictions based on the available channel conveyance capacities at various locations along the TCC and GCC. Further, restrictions based on the dedicated annual maintenance periods for TCC, GCC, and Delevan pipeline.
- Restrictions based on meeting the specified bypass flow requirements downstream of each of the three intakes. In addition, diversions are restricted based on the seasonal bypass flow requirements specified for Sacramento River near Hood.
- Restrictions based on the occurrence of pulse flows in the Sacramento River, which provide key biological cues for the outmigrating juvenile winter-, spring-, fall, and late fall-run Chinook salmon, as well as a portion of the steelhead juvenile fish. Therefore, diversions are restricted for up to one pulse event recognized in each month of the October through May period. Bend Bridge flow was used to identify pulse signals as part of the modeling.

6C.1.4 Overview of the Planning Analysis

For DEIR/EIS, CALSIM II is the model of choice for the lead agencies to simulate reservoir operations and river flow conditions. CALSIM II simulates CVP and State Water Project (SWP) operations on a monthly timestep from WY 1922 through WY 2003. Therefore, for the USRDOM projected conditions simulation, the inputs are taken from CALSIM II for a consistent analysis. Appendix 6B Water Resources System Modeling includes detailed description of the CALSIM II model. Because USRDOM requires inputs on a daily timestep, the monthly inputs and outputs of the CALSIM II model are downscaled to a daily timestep using the CAL2DOM utility. CAL2DOM utility translates monthly CALSIM II operations data to a daily time step. It uses the inputs and outputs from CALSIM II, USRDOM hydrology inputs, and other datasets to compute inflows, diversions, and evaporation rates for using as inputs in the USRDOM.

6C.1.5 Analysis of Project Alternatives

CALSIM II was the core model used to simulate the Project operations. However, the assumptions related to the intake operations require daily flow data in determining the diversions allowed at the intakes, in turn affecting the system-wide operations. Since CALSIM II is a monthly timestep model, USRDOM results were used to enforce the intake operations on a sub-monthly scale. Due to the complexity in the intake operational rules, a spreadsheet tool was developed to implement the operational constraints using the daily results from the USRDOM. Further, the models were iterated to ensure all the intake operations assumptions were simulated accurately. Figure 6C-1 shows the schematic of the modeling process used to simulate Project operations.

In the first iteration, CALSIM II and USRDOM models are simulated for a Project alternative to determine the days requiring the pulse protection. A draft CALSIM II simulation was run with all the physical, regulatory and operational assumptions for the Project alternative. The results from this "draft" CALSIM II simulation were used to run the USRDOM model. The USRDOM setup included Project assumptions consistent with the draft CALSIM II. Since this USRDOM run is used to estimate daily flows in the river to determine the days requiring pulse protection, the diversions at the TCC, GCC, and Delevan intakes are restricted to meet the agricultural demands and other local uses in Colusa Basin region. The CAL2DOM logic was altered to estimate the diversions at the three intake locations without including the diversions for filling Sites Reservoir in this USRDOM run (called as, draft USRDOM No Fills Run). The results from the draft USRDOM No Fills run are used in a spreadsheet tool to determine the number of days under pulse protection in each month, over the 82-year period.

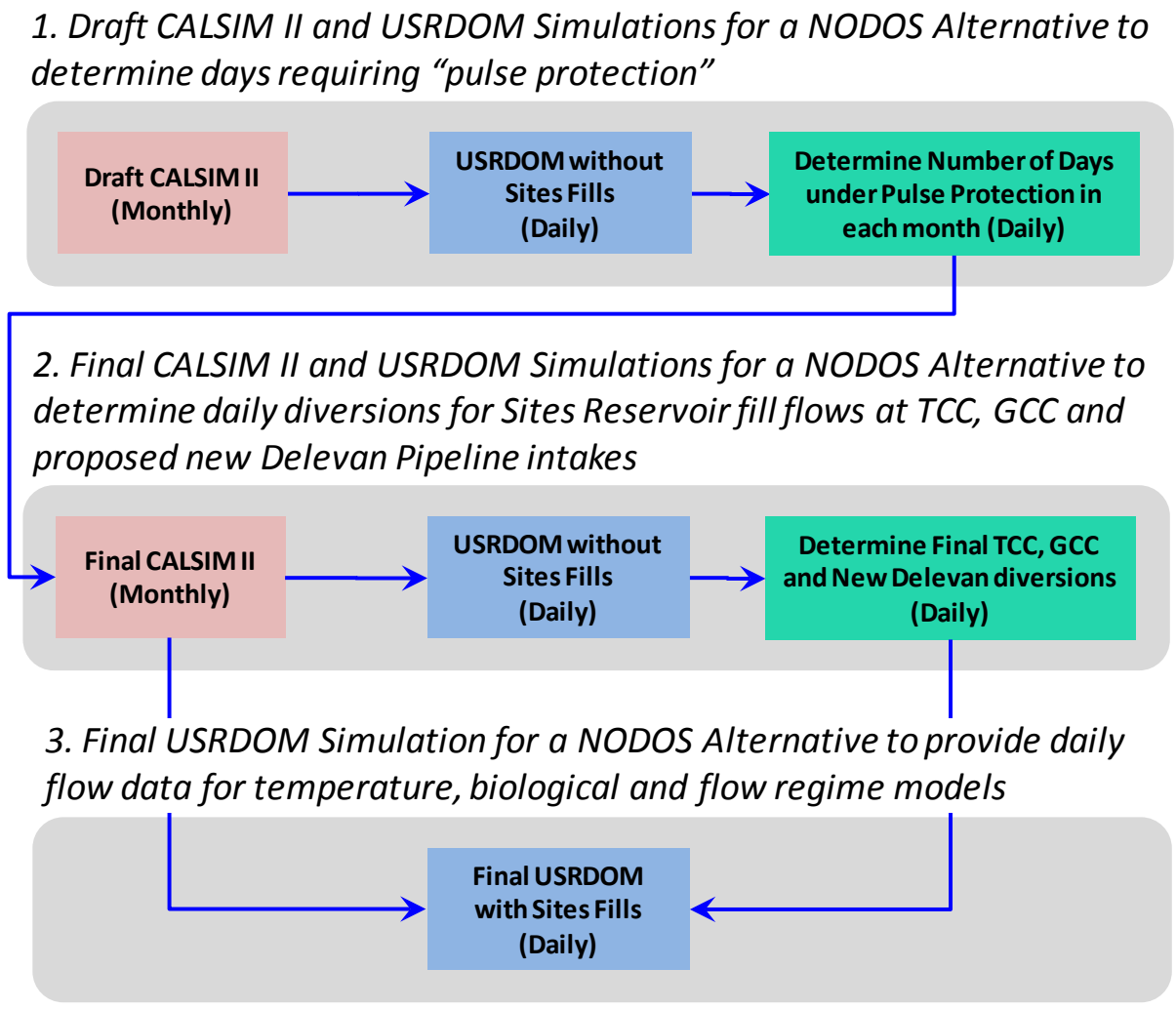

Figure 6C-1 Operations Modeling Process used for the Project Alternatives Evaluation

In the second iteration, the draft CALSIM II from the first iteration is re-run with the pulse protection data, to simulate the final monthly operations for the Project alternative. The goal of this iteration is to determine the daily diversion amounts at the TCC, GCC, and Delevan pipeline intakes. Since the

complexity involved in simulating capacity and maintenance constraints, bypass flow requirements and pulse protection restrictions simultaneously, the existing CAL2DOM logic to determine the daily diversions at the three intakes is insufficient. Therefore, the results from the final CALSIM II simulation are used to run another USRDOM simulation without including the diversions needed to fill the Sites Reservoir at the three intake locations (called as, final USRDOM No Fills Run). The purpose of this final USRDOM No Fills run is to determine the daily flows in the Sacramento River at key control points. This data is used in a spreadsheet tool to determine the daily diversions required to fill Sites Reservoir at the three intakes while complying with all the operational rules.

The daily diversions for the Sites fills at the three intakes are determined in three steps in the spreadsheet tool. In the first step the available diversion capacity is determined based on the capacity and maintenance constraints described above. In addition, based on the daily USRDOM flow the available flow to meet the monthly average diversion for fill (from CALSIM II) is determined at each intake, while meeting the bypass flow requirements. If there are no pulse flow restrictions for a given day, then the diversion at each intake is estimated as the minimum of available capacity and the available flow for diversion.

If the total diversion volumes at each intake from the first step for each month are less than the amount determined in CALSIM II, additional diversions needed to make up the difference are estimated in the second step. In this step, the additional diversions are made up at any of the three intakes depending on the available diversion capacity and the available flow for the diversion. First TCC intake is checked, then the GCC intake and finally the Delevan pipeline intake for any available diversion capacity for each month.

Based on the diversions from the second step, the months with volumes continue to be short of the CALSIM II values are flagged in the third and final step. These shortages are carried forward to the next months in which the diversion capacity and the flow for the diversion are available. This carrying forward of the shortages is only allowed in November through May months, which generally is the Sites Reservoir filling period. The availability of the flow for the diversion is estimated as the Wilkins Slough flow in excess of the minimum flow requirement at Knights Landing (estimated in CAL2DOM).

In this process, a few reasonable simplifying assumptions were made for modeling purposes, mainly because CALSIM II determines the diversions at the three intakes on a monthly timestep without knowing the daily constraints due to the intake operations assumptions and the daily variability in the unregulated flows. It is assumed that based on the available real-time monitoring, there is enough flexibility in TCC, GCC, and Delevan pipeline operations and in the interoperability among the three conveyance systems such that the diversions to fill Sites Reservoir can be made up through the following:

- Diversions at any of the three intake locations while meeting all the intake operations assumptions at each intake
- Diversions in any of the months during the fill season of November through May if usable diversion capacity and divertible flow is available

In the third iteration final USRDOM run is simulated using the final CALSIM II results and the daily diversions for fills from the final step of the spreadsheet tool. CAL2DOM is modified to combine the diversions for the fills and the diversions for meeting local Colusa Basin demands to determine the total daily diversions at each of the three intakes.

The flow and storage results from the final USRDOM simulation are used to run the USRWQM for Sacramento River temperatures and other models to study the temperature, biological and flow regime effects of the Project alternatives. USRDOM results for the daily weir spills at Ord Ferry, Moulton Weir, Colusa Weir and Tisdale Weir were used in the evaluation of the DEIR/EIS Alternatives. Daily flow results from USRDOM and daily temperature results from USRWQM were used to simulate the potential impact of the Sites releases on the Sacramento River temperatures at the Delevan Pipeline, as described in Appendix 7F Sites Reservoir Discharge Temperature Modeling. USRDOM results were also used to identify inflow sources in the Sacramento River on a sub-monthly time-step to study likely water quality impacts summarized in Appendix 7C Surface Water Quality Analysis for Electrical Conductivity at Proposed Intakes. More information regarding the analytical framework used to evaluate the alternatives is in Appendix 6B Water Resources System Modeling.

6C.1.6 Limitations

In using the USRDOM results for the Alternatives evaluation following limitations should be noted:

The USRDOM calibration for Clear Creek flows below Whiskeytown Dam is significantly weaker than for other flows in the Trinity and Sacramento River systems. It is recommended that the CALSIM II model alone be used as the basis for impact assessment on Clear Creek flows.

In the downscaling of CALSIM II boundary condition flows for use in the USRDOM simulations, diversions at Red Bluff, Hamilton City and the Delevan Pipeline (Project alternatives) are smoothed from monthly to daily timestep. In this smoothing operation, in order to conserve volume and have a gradual change in diversion flows (as opposed to sharp changes at monthly or other time scale boundaries), there are some days in which diversions are represented in the model at flow rates that may exceed the sustainable rate of the physical capacity of these facilities. It is recommended that any assessment of flows or other parameters linked to the peak flow rate of these diversions use monthly average values rather than daily or other sub-monthly average values.

The CALSIM II model is used to establish system operational conditions and USRDOM is used to interpret these on a daily time-step; all residuals and inconsistencies between the CALSIM II and USRDOM models accumulate in storage facilities modeled, including Sites Reservoir; the Sites Reservoir storage in the USRDOM sometimes exceeds physical capacity slightly due to this inconsistency between the models.

6C.1.7 List of References

CH2M HILL. 2011. Final USRDOM Development, Calibration, and Application. Prepared for Bureau of Reclamation, Mid-Pacific Region.

6C.2 Results

This section includes the results from the Upper Sacramento River Daily Operations Model (USRDOM) used in the detailed evaluation of the alternatives for the DEIR/EIS.

6C.2.1 Introduction

The USRDOM results included in this appendix are used in:

- Chapter 6 Surface Water Resources
- Chapter 7 Surface Water Quality
- Chapter 12 Aquatic Biological Resources

For each parameter and location shown in Table 6C-1, Summary Tables reports are provided. In the Summary Tables reports, for each parameter and location shown below, summary tables of USRDOM results by month are included. The tables include long-term average, and averages by water year type (SWRCB 40-30-30 Index). The tables also include the absolute and relative differences between alternatives.

6C.2.2 Locations and Parameters

The locations and the parameters for the results included in this appendix are tabulated below in Table 6C-1. Maps showing these locations are included in Appendix 6B Water Resources System Modeling.

Other analyses were used to evaluate flow conditions. The State Water Project (SWP) and Central Valley Project (CVP) water operations modeling using the CALSIM II model, referred to in Chapter 6 Surface Water Resources, for evaluating reservoir storage, flow and diversions for locations in the Sacramento River Basin and Sacramento-San Joaquin Delta is included in Appendix 6B Water Resources System Modeling.

Table 6C-1
Upper Sacramento River Daily Operations Model Results Locations and Parameters

	Report Title	Time-Step	Parameter
1	Ord Ferry Spills into Sutter Bypass	Monthly average of Daily flows	Diversion*
2	Moulton Weir Spills into Sutter Bypass	Monthly average of Daily flows	Diversion*
3	Colusa Weir Spills into Sutter Bypass	Monthly average of Daily flows	Diversion*
4	Tisdale Weir Spills into Sutter Bypass	Monthly average of Daily flows	Diversion*

*Diversion of flow from the Sacramento River through the weir into the Sutter Bypass; this is a result of high flows in the Sacramento River such that the river stage is greater than the crest of the weir.

6C.2.3 Comparisons

Summary Tables reports are provided for the following comparisons:

- Alternative A compared to No Action Alternative
- Alternative B compared to No Action Alternative
- Alternative C compared to No Action Alternative
- Alternative D compared to No Action Alternative

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Sacramento River Daily Flow Modeling
Results

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Alternative A Compared to No Action Alternative

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Table SW-49-3a
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						Monthly Diversion (CFS)						
						Long-term						
Full Simulation Period[1]												
No Action Alternative	0	0	63	257	431	189	14	0	0	0	0	0
Alternative A	0	0	64	233	418	181	13	0	0	0	0	0
Difference	0	0	2	-24	-12	-8	-1	0	0	0	0	0
Percent Difference[3]			2.4%	-9.5%	-2.9%	-4.2%	-4.7%					
						Water Year Types[2]						
Wet (32%)												
No Action Alternative	0	0	29	779	1213	554	34	0	0	0	0	0
Alternative A	0	0	36	722	1196	539	34	0	0	0	0	0
Difference	0	0	7	-57	-17	-15	0	0	0	0	0	0
Percent Difference			22.7%	-7.3%	-1.4%	-2.7%	-0.1%					
Above Normal (15%)												
No Action Alternative	0	0	1	68	316	88	19	0	0	0	0	0
Alternative A	0	0	13	24	268	67	14	0	0	0	0	0
Difference	0	0	13	-44	-48	-21	-4	0	0	0	0	0
Percent Difference				-64.4%	-15.1%	-23.8%	-22.9%					
Below Normal (17%)												
No Action Alternative	0	0	123	0	0	0	0	0	0	0	0	0
Alternative A	0	0	103	0	0	0	0	0	0	0	0	0
Difference	0	0	-21	0	0	0	0	0	0	0	0	0
Percent Difference			-16.9%									
Dry (22%)												
No Action Alternative	0	0	147	0	0	0	0	0	0	0	0	0
Alternative A	0	0	152	0	0	0	0	0	0	0	0	0
Difference	0	0	5	0	0	0	0	0	0	0	0	0
Percent Difference			3.6%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative A	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

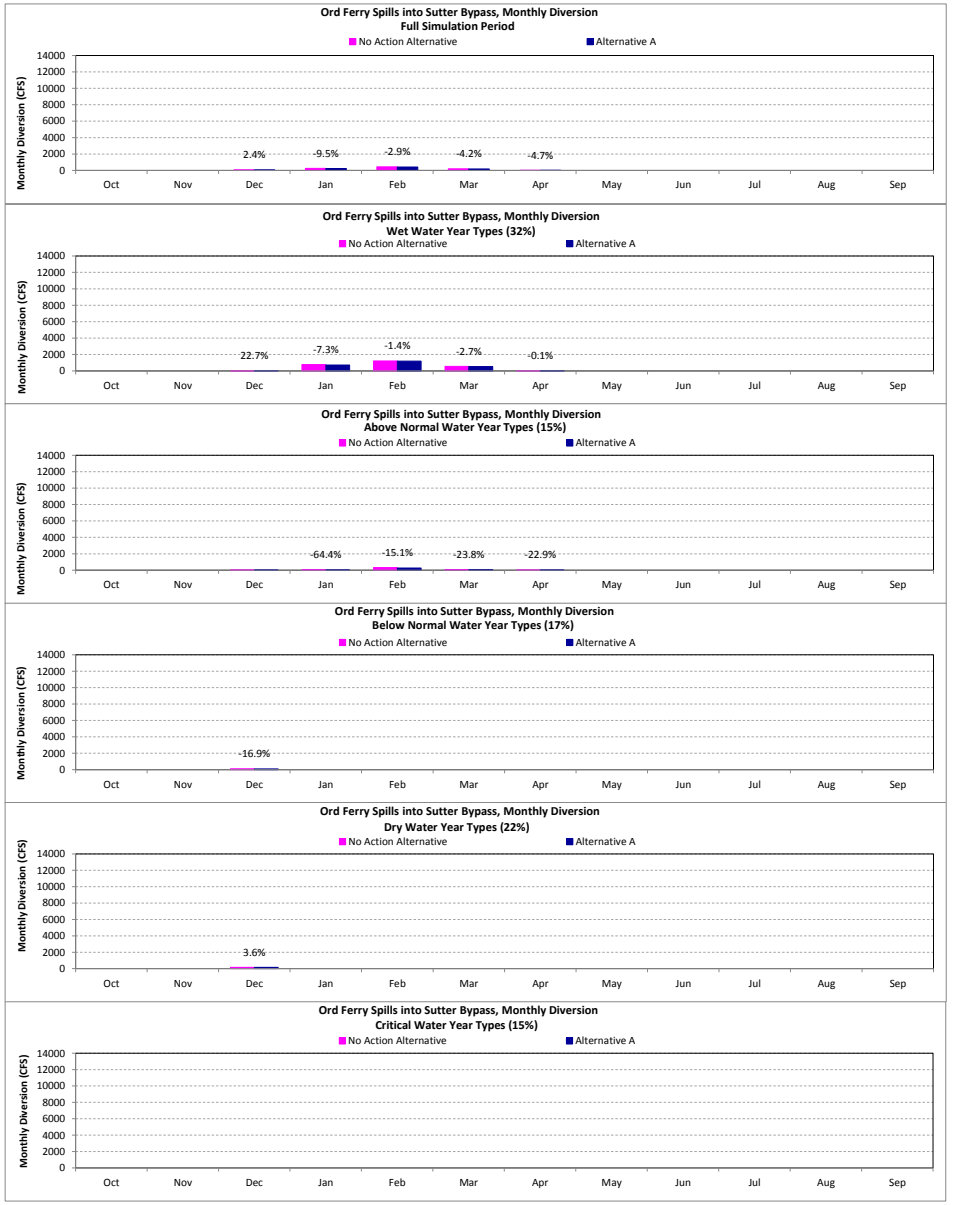


Figure SW-49-3b
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

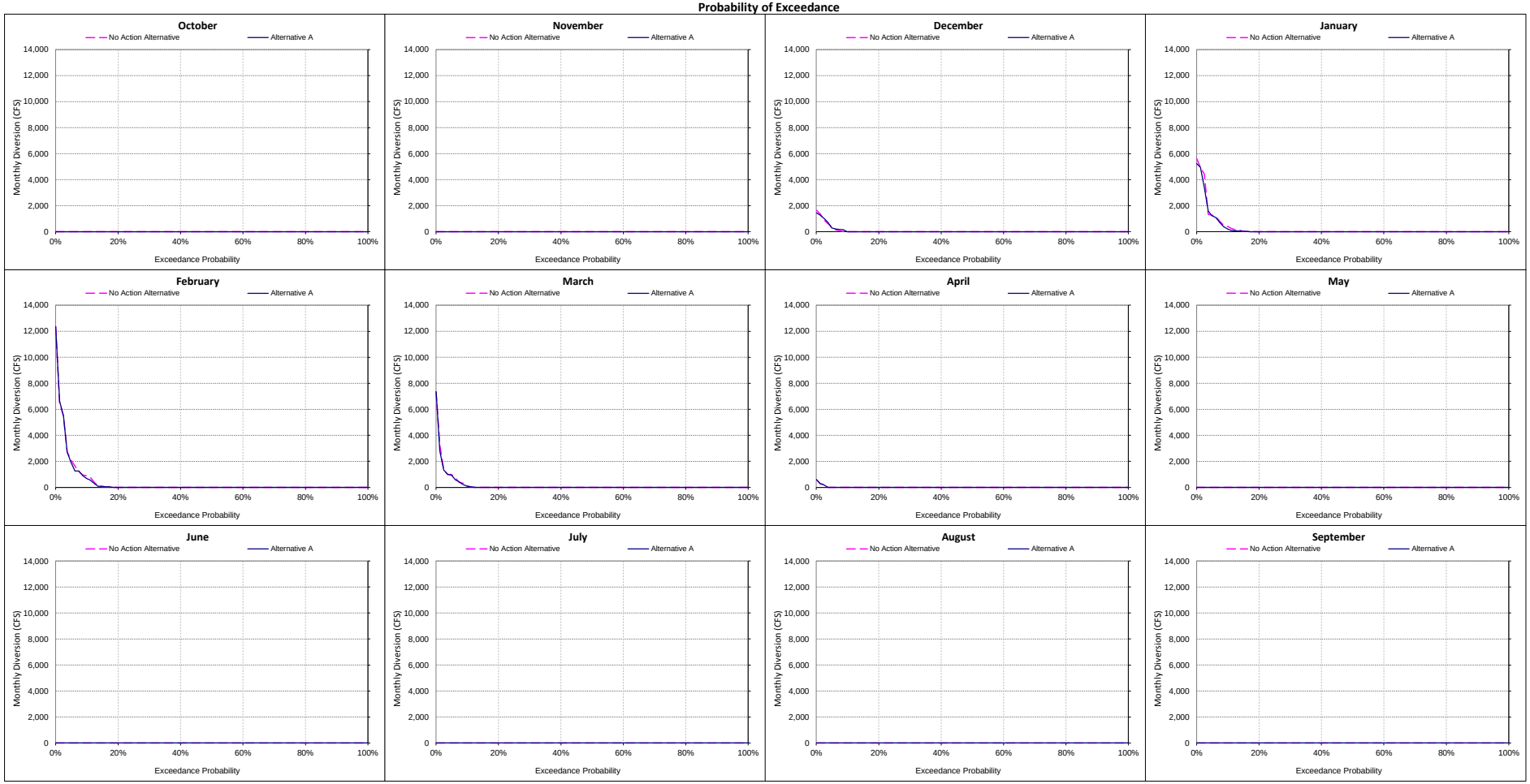


Table SW-49-3b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1453	-207	-12.4%	0.0%	5633	5251	-382	-6.8%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1265	-99	-7.3%	1.2%	4956	4949	-7	-0.1%
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	1004	97	10.7%	2.5%	4426	3391	-1035	-23.4%
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	723	106	17.2%	3.7%	1331	1595	264	19.8%
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	287	-91	-24.0%	4.9%	1271	1221	-50	-3.9%
6.2%	0	0	0		6.2%	0	0	0		6.2%	150	218	68	45.3%	6.2%	1147	1081	-66	-5.7%
7.4%	0	0	0		7.4%	0	0	0		7.4%	70	171	101	144.7%	7.4%	807	707	-99	-12.3%
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	157	151		8.6%	492	399	-93	-18.9%
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	408	205	-203	-49.8%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	255	93	-163	-63.6%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	135	71	-64	-47.3%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	131	50	-81	-61.7%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	29	36	7	23.3%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	25	15	-10	-39.8%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	21	0	-21	-100.0%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-3b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	12366	12366	0	0.0%	0.0%	7360	7359	0	0.0%	0.0%	608	608	0	0.0%	0.0%	0	0	0	
1.2%	6536	6641	105	1.6%	1.2%	3196	2800	-395	-12.4%	1.2%	285	284	-1	-0.3%	1.2%	0	0	0	
2.5%	5493	5487	-7	-0.1%	2.5%	1350	1349	0	0.0%	2.5%	225	173	-51	-22.9%	2.5%	0	0	0	
3.7%	2709	2714	6	0.2%	3.7%	994	994	0	0.0%	3.7%	0	0	0		3.7%	0	0	0	
4.9%	2095	1922	-173	-8.3%	4.9%	987	944	-43	-4.3%	4.9%	0	0	0		4.9%	0	0	0	
6.2%	1642	1269	-373	-22.7%	6.2%	737	586	-152	-20.6%	6.2%	0	0	0		6.2%	0	0	0	
7.4%	1220	1261	42	3.4%	7.4%	383	426	43	11.1%	7.4%	0	0	0		7.4%	0	0	0	
8.6%	957	895	-62	-6.5%	8.6%	322	222	-100	-31.1%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	889	682	-206	-23.2%	9.9%	91	92	1	0.6%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	763	561	-202	-26.5%	11.1%	49	49	0	-0.1%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	391	293	-99	-25.2%	12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	120	77	-43	-36.0%	13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	63	75	12	18.8%	14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	50	37	-13	-25.6%	16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	41	32	-10	-23.3%	17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-3b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-3a
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	0	0	59	283	467	240	32	0	0	0	0	0
Alternative A	0	0	65	269	457	224	31	0	0	0	0	0
Difference	0	0	6	-14	-10	-16	-1	0	0	0	0	0
Percent Difference[3]			10.7%	-5.1%	-2.2%	-6.7%	-3.1%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	0	42	829	1367	690	83	0	0	0	0	0
Alternative A	0	0	49	806	1353	657	83	0	0	0	0	0
Difference	0	0	8	-23	-14	-33	0	0	0	0	0	0
Percent Difference			18.3%	-2.8%	-1.0%	-4.8%	0.0%					
Above Normal (15%)												
No Action Alternative	0	0	7	139	229	147	38	0	0	0	0	0
Alternative A	0	1	20	89	188	109	31	0	0	0	0	0
Difference	0	1	13	-50	-40	-38	-7	0	0	0	0	0
Percent Difference				-36.0%	-17.7%	-25.8%	-17.6%					
Below Normal (17%)												
No Action Alternative	0	0	94	1	0	0	0	0	0	0	0	0
Alternative A	0	0	94	3	0	0	0	0	0	0	0	0
Difference	0	0	-1	1	0	0	0	0	0	0	0	0
Percent Difference			-0.7%	106.9%								
Dry (22%)												
No Action Alternative	0	0	130	0	0	0	0	0	0	0	0	0
Alternative A	0	0	139	0	0	0	0	0	0	0	0	0
Difference	0	0	9	0	0	0	0	0	0	0	0	0
Percent Difference			7.2%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative A	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

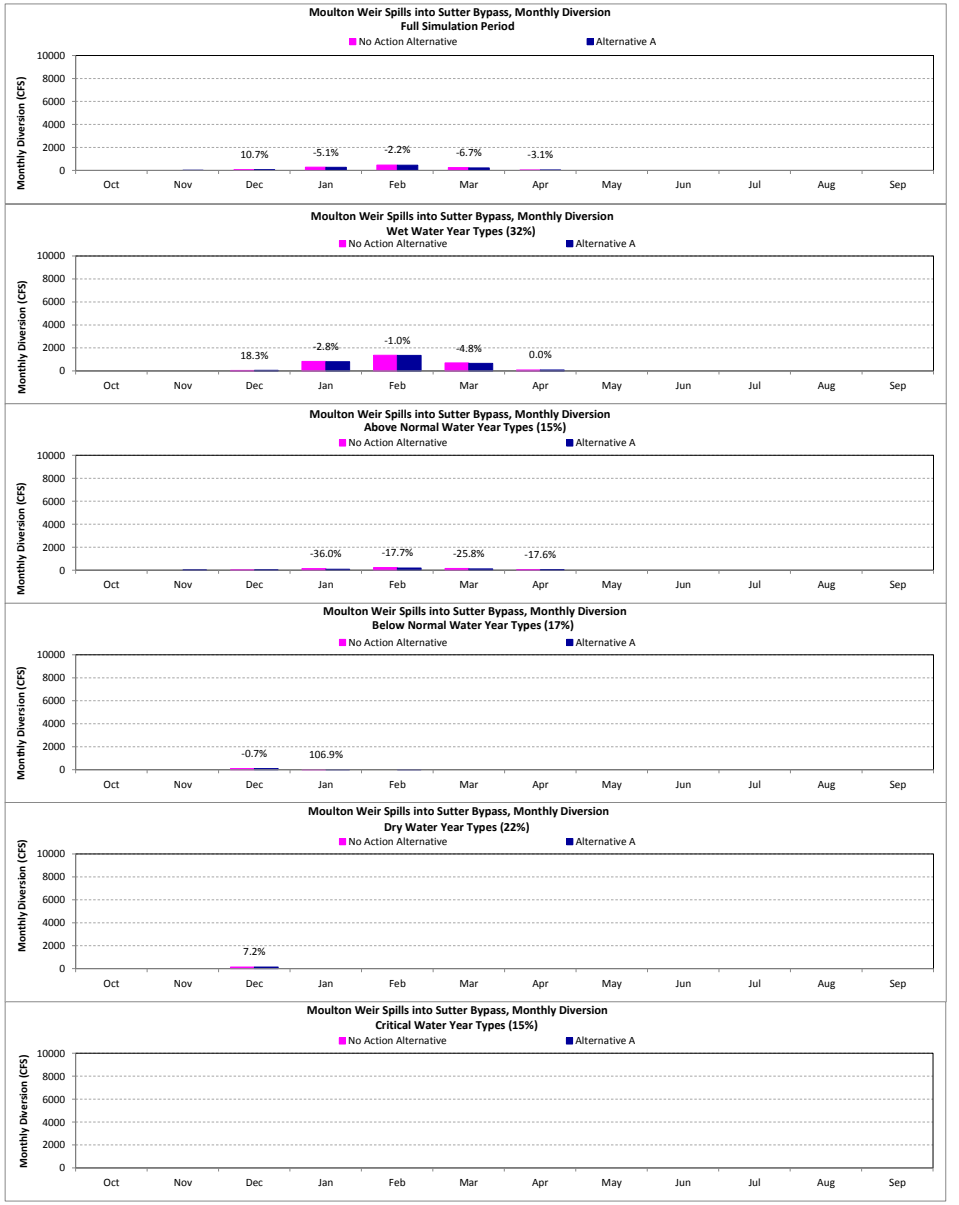


Figure SW-50-3b
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

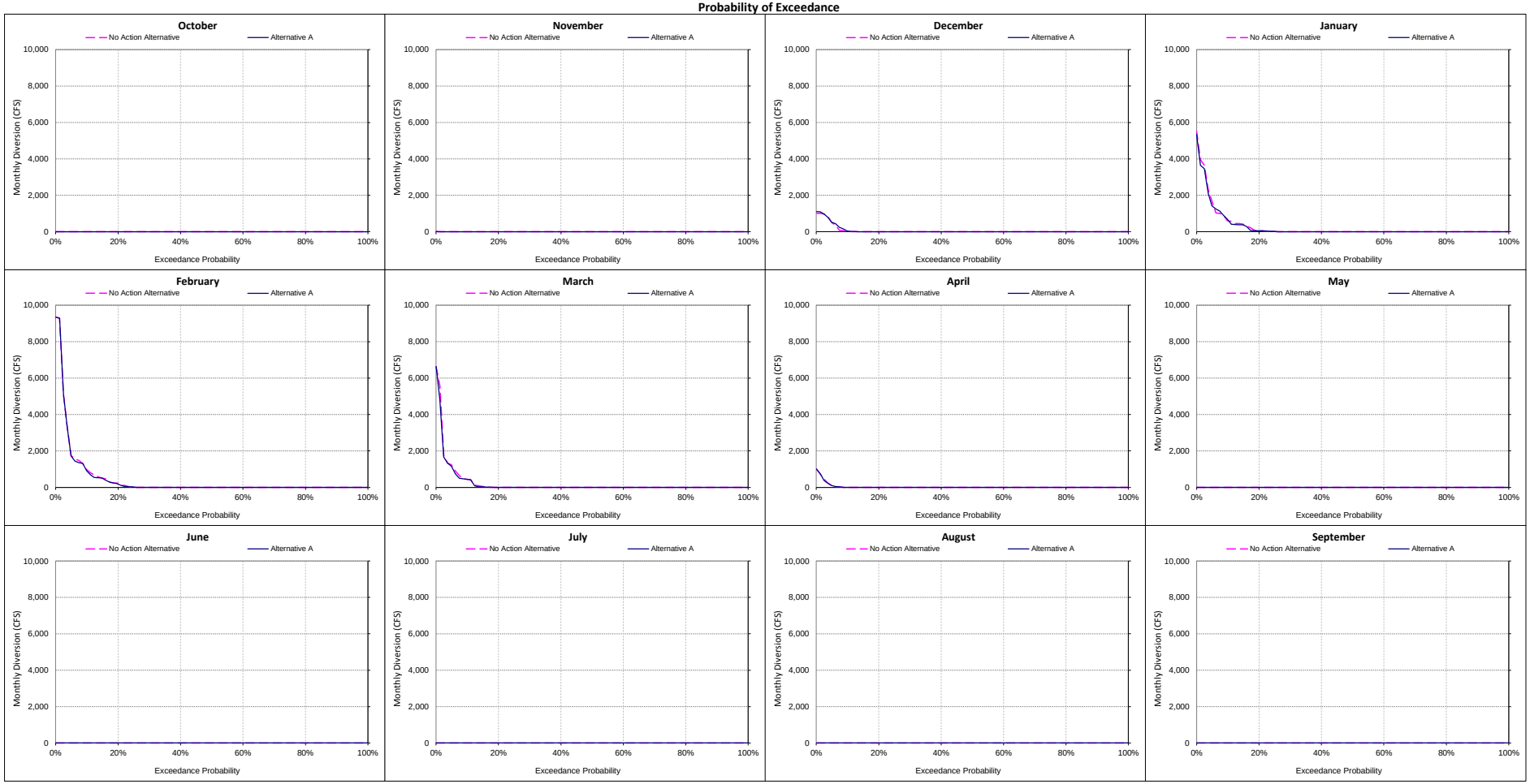


Table SW-50-3b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	8	8		0.0%	1010	1101	91	9.0%	0.0%	5535	5365	-170	-3.1%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1009	1094	85	8.4%	1.2%	3947	3651	-296	-7.5%
2.5%	0	0	0		2.5%	0	0	0		2.5%	969	969	0	0.0%	2.5%	3653	3464	-188	-5.2%
3.7%	0	0	0		3.7%	0	0	0		3.7%	839	788	-51	-6.1%	3.7%	2312	2100	-212	-9.2%
4.9%	0	0	0		4.9%	0	0	0		4.9%	494	523	29	6.0%	4.9%	1658	1415	-242	-14.6%
6.2%	0	0	0		6.2%	0	0	0		6.2%	351	437	86	24.5%	6.2%	1025	1255	230	22.4%
7.4%	0	0	0		7.4%	0	0	0		7.4%	74	229	155	208.8%	7.4%	1003	1133	130	12.9%
8.6%	0	0	0		8.6%	0	0	0		8.6%	53	145	92	175.3%	8.6%	890	898	8	0.9%
9.9%	0	0	0		9.9%	0	0	0		9.9%	28	36	8	28.3%	9.9%	594	671	78	13.1%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	10	10		11.1%	571	406	-165	-28.9%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	10	10		12.3%	446	396	-50	-11.2%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	444	376	-67	-15.2%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	414	374	-41	-9.8%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	309	271	-38	-12.2%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	213	66	-147	-69.2%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	77	48	-29	-37.6%
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	53	47	-6	-11.9%
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	47	45	-1	-3.1%
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	26	38	11	42.5%
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	18	28	10	52.4%
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	10	21	11	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-3b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	9355	9340	-15	-0.2%	0.0%	6639	6639	0	0.0%	0.0%	1015	1016	0	0.0%	0.0%	0	0	0	
1.2%	9304	9287	-18	-0.2%	1.2%	5565	4846	-718	-12.9%	1.2%	737	737	0	0.0%	1.2%	0	0	0	
2.5%	5144	5106	-38	-0.7%	2.5%	1750	1675	-74	-4.2%	2.5%	459	378	-81	-17.6%	2.5%	0	0	0	
3.7%	3323	3344	21	0.6%	3.7%	1332	1334	2	0.1%	3.7%	227	227	0	-0.2%	3.7%	0	0	0	
4.9%	1751	1733	-19	-1.1%	4.9%	1238	1163	-75	-6.1%	4.9%	96	96	0	-0.2%	4.9%	0	0	0	
6.2%	1559	1438	-122	-7.8%	6.2%	899	738	-161	-17.9%	6.2%	40	40	0	0.0%	6.2%	0	0	0	
7.4%	1482	1358	-124	-8.4%	7.4%	664	496	-167	-25.2%	7.4%	36	36	0	0.3%	7.4%	0	0	0	
8.6%	1317	1318	1	0.1%	8.6%	469	469	0	0.0%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	976	920	-56	-5.7%	9.9%	443	444	1	0.1%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	806	700	-106	-13.1%	11.1%	412	411	-1	-0.3%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	682	541	-141	-20.6%	12.3%	124	85	-39	-31.2%	12.3%	0	0	0		12.3%	0	0	0	
13.6%	574	531	-44	-7.6%	13.6%	87	32	-55	-63.1%	13.6%	0	0	0		13.6%	0	0	0	
14.8%	510	516	6	1.1%	14.8%	47	29	-18	-38.3%	14.8%	0	0	0		14.8%	0	0	0	
16.0%	466	384	-82	-17.5%	16.0%	34	17	-17	-50.1%	16.0%	0	0	0		16.0%	0	0	0	
17.3%	290	288	-2	-0.7%	17.3%	1	10	10		17.3%	0	0	0		17.3%	0	0	0	
18.5%	239	238	-1	-0.4%	18.5%	1	1	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	236	195	-42	-17.6%	19.8%	0	1	1		19.8%	0	0	0		19.8%	0	0	0	
21.0%	118	96	-22	-18.8%	21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	101	46	-55	-54.3%	22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	38	27	-11	-29.7%	23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	14	24	9		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	5	5		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-3b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

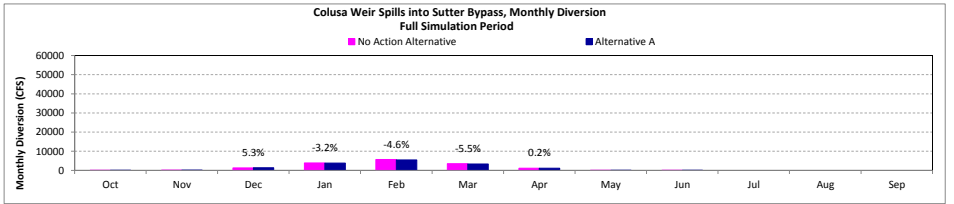
Table SW-51-3a
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

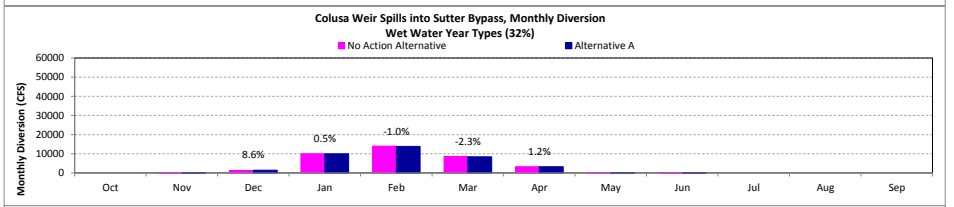
Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	7	126	1329	3917	5723	3523	1174	68	19	0	0	0
Alternative A	10	127	1399	3791	5457	3328	1177	66	18	0	0	0
Difference	3	1	70	-126	-266	-195	3	-2	-2	0	0	0
Percent Difference[3]			5.3%	-3.2%	-4.6%	-5.5%	0.2%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	35	1292	9956	14022	8607	3195	128	61	0	0	0
Alternative A	0	60	1402	10004	13875	8407	3233	123	56	0	0	0
Difference	0	25	111	49	-147	-199	38	-5	-5	0	0	0
Percent Difference			8.6%	0.5%	-1.0%	-2.3%	1.2%					
Above Normal (15%)												
No Action Alternative	0	589	1240	3961	5888	4959	997	187	0	0	0	0
Alternative A	0	552	1180	3254	5309	4335	958	186	0	0	0	0
Difference	0	-36	-60	-706	-579	-624	-38	-1	0	0	0	0
Percent Difference		-6.2%	-4.8%	-17.8%	-9.8%	-12.6%	-3.9%	-0.4%				
Below Normal (17%)												
No Action Alternative	40	75	1613	716	1433	83	89	0	0	0	0	0
Alternative A	56	76	1801	643	948	27	69	0	0	0	0	0
Difference	16	0	188	-73	-485	-56	-20	0	0	0	0	0
Percent Difference	39.5%	0.5%	11.7%	-10.2%	-33.8%	-67.5%	-22.9%					
Dry (22%)												
No Action Alternative	0	75	2090	256	768	245	0	0	0	0	0	0
Alternative A	0	65	2142	147	538	104	0	0	0	0	0	0
Difference	0	-9	52	-109	-231	-141	0	0	0	0	0	0
Percent Difference		-12.3%	2.5%	-42.6%	-30.0%	-57.4%						
Critical (15%)												
No Action Alternative	0	0	29	14	13	0	0	0	0	0	0	0
Alternative A	0	0	28	2	8	0	0	0	0	0	0	0
Difference	0	0	0	-13	-5	0	0	0	0	0	0	0
Percent Difference			-1.4%	-87.8%	-38.4%							

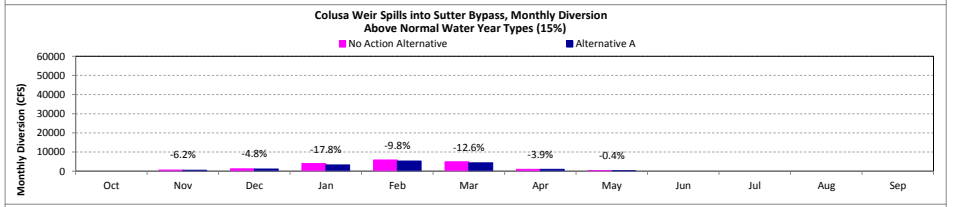
1 Based on the 82-year simulation period

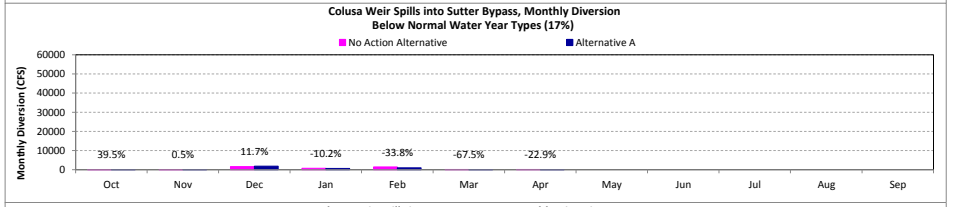
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

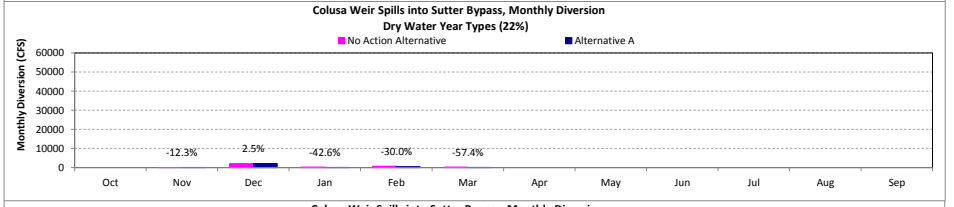
3 Relative difference of the monthly average











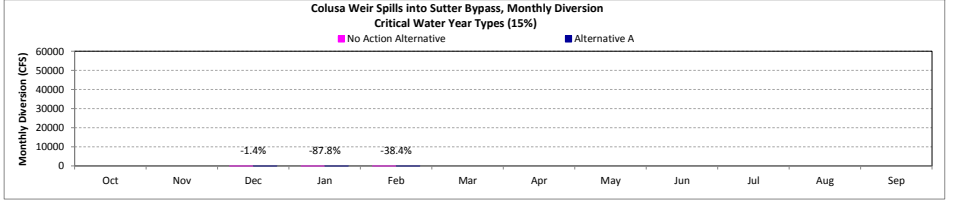


Figure SW-51-3b
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

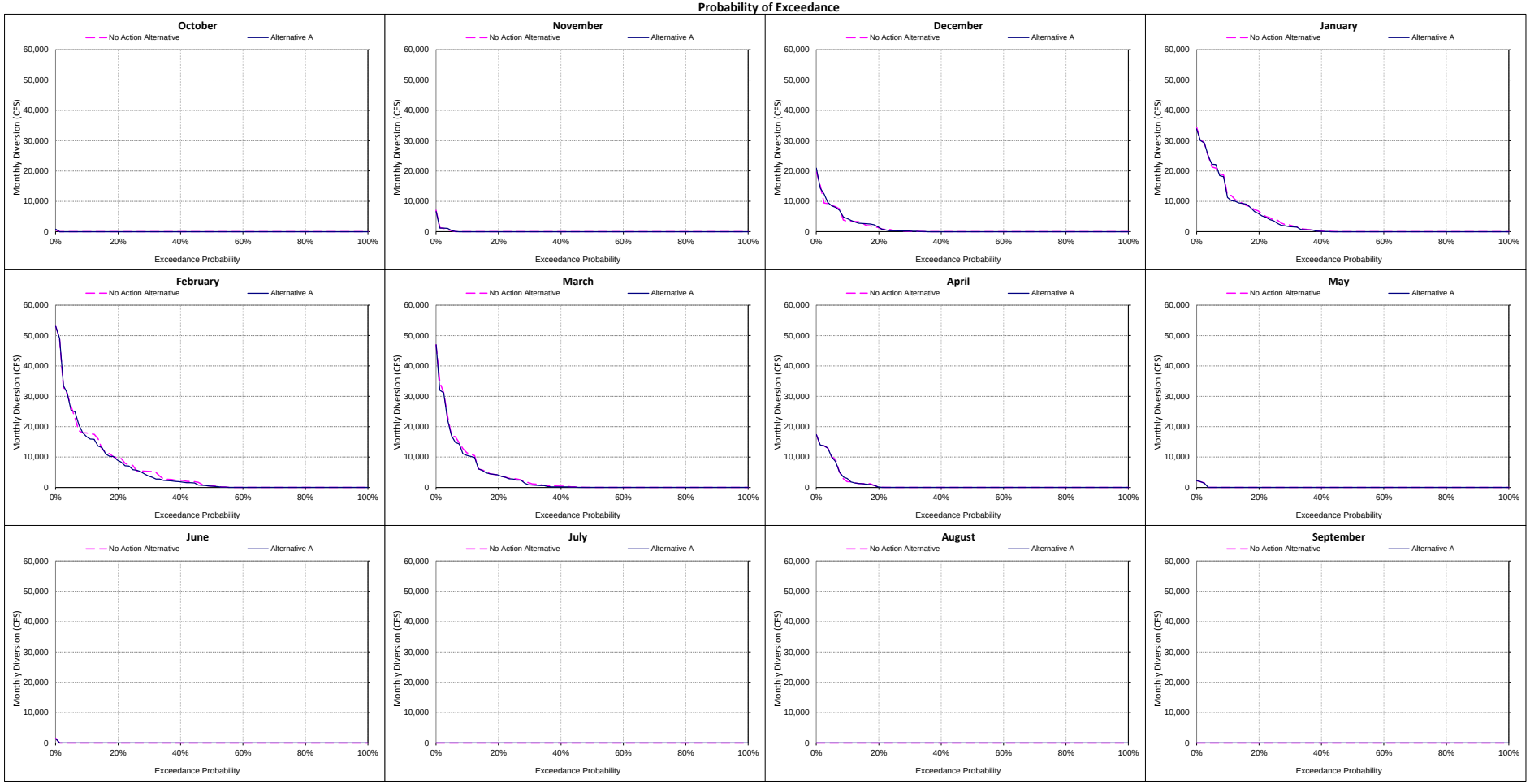


Table SW-51-3b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	559	779	221	39.5%	0.0%	7065	6630	-435	-6.2%	0.0%	19690	20916	1226	6.2%	0.0%	34396	33883	-513	-1.5%
1.2%	0	0	0		1.2%	1342	1187	-155	-11.6%	1.2%	15339	14369	-969	-6.3%	1.2%	30467	30019	-448	-1.5%
2.5%	0	0	0		2.5%	1052	1177	126	11.9%	2.5%	9438	12386	2947	31.2%	2.5%	29120	29236	116	0.4%
3.7%	0	0	0		3.7%	585	1057	472	80.6%	3.7%	9260	9664	405	4.4%	3.7%	24936	24925	-12	0.0%
4.9%	0	0	0		4.9%	318	346	27	8.6%	4.9%	8690	8511	-180	-2.1%	4.9%	21295	22261	966	4.5%
6.2%	0	0	0		6.2%	0	27	27		6.2%	8205	7968	-236	-2.9%	6.2%	20927	22175	1249	6.0%
7.4%	0	0	0		7.4%	0	0	0		7.4%	7529	7074	-455	-6.0%	7.4%	19015	18473	-542	-2.8%
8.6%	0	0	0		8.6%	0	0	0		8.6%	3842	4822	980	25.5%	8.6%	18640	18106	-534	-2.9%
9.9%	0	0	0		9.9%	0	0	0		9.9%	3410	4335	925	27.1%	9.9%	11980	11299	-681	-5.7%
11.1%	0	0	0		11.1%	0	0	0		11.1%	3381	3750	370	10.9%	11.1%	11956	10246	-1711	-14.3%
12.3%	0	0	0		12.3%	0	0	0		12.3%	3364	3173	-191	-5.7%	12.3%	10544	10093	-451	-4.3%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	2794	-468	-14.3%	13.6%	10025	9434	-590	-5.9%
14.8%	0	0	0		14.8%	0	0	0		14.8%	2761	2720	-41	-1.5%	14.8%	9226	9282	56	0.6%
16.0%	0	0	0		16.0%	0	0	0		16.0%	1997	2584	587	29.4%	16.0%	8577	9010	434	5.1%
17.3%	0	0	0		17.3%	0	0	0		17.3%	1931	2544	613	31.7%	17.3%	8270	7892	-378	-4.6%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1632	2235	603	36.9%	18.5%	7295	6638	-657	-9.0%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1364	1628	264	19.4%	19.8%	6835	6013	-823	-12.0%
21.0%	0	0	0		21.0%	0	0	0		21.0%	840	780	-60	-7.2%	21.0%	5815	5156	-658	-11.3%
22.2%	0	0	0		22.2%	0	0	0		22.2%	727	535	-192	-26.3%	22.2%	4988	4746	-242	-4.8%
23.5%	0	0	0		23.5%	0	0	0		23.5%	722	334	-388	-53.7%	23.5%	4592	4007	-585	-12.7%
24.7%	0	0	0		24.7%	0	0	0		24.7%	444	328	-116	-26.0%	24.7%	3793	3525	-269	-7.1%
25.9%	0	0	0		25.9%	0	0	0		25.9%	338	327	-12	-3.4%	25.9%	3788	2720	-1068	-28.2%
27.2%	0	0	0		27.2%	0	0	0		27.2%	270	244	-26	-9.7%	27.2%	2797	2086	-711	-25.4%
28.4%	0	0	0		28.4%	0	0	0		28.4%	167	243	76	45.7%	28.4%	2342	1945	-397	-16.9%
29.6%	0	0	0		29.6%	0	0	0		29.6%	136	188	52	38.5%	29.6%	2254	1690	-564	-25.0%
30.9%	0	0	0		30.9%	0	0	0		30.9%	96	167	70	73.1%	30.9%	1865	1587	-278	-14.9%
32.1%	0	0	0		32.1%	0	0	0		32.1%	79	89	10	12.7%	32.1%	1582	1505	-77	-4.9%
33.3%	0	0	0		33.3%	0	0	0		33.3%	72	11	-61	-84.7%	33.3%	1034	704	-330	-31.9%
34.6%	0	0	0		34.6%	0	0	0		34.6%	7	6	-1		34.6%	821	620	-201	-24.5%
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	691	598	-93	-13.4%
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	493	526	33	6.6%
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	283	182	-101	-35.6%
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	244	149	-95	-38.9%
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	122	86	-37	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	97	21	-76	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	75	0	-75	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	10	0	-10	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-3b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	53046	53039	-7	0.0%	0.0%	46969	46968	0	0.0%	0.0%	17385	17397	12	0.1%	0.0%	2239	2230	-9	-0.4%
1.2%	49189	49081	-107	-0.2%	1.2%	34582	32037	-2546	-7.4%	1.2%	13969	13981	12	0.1%	1.2%	1860	1849	-11	-0.6%
2.5%	33038	33476	439	1.3%	2.5%	31132	31144	12	0.0%	2.5%	13675	13677	2	0.0%	2.5%	1459	1343	-116	-8.0%
3.7%	30755	31177	422	1.4%	3.7%	23411	22248	-1163	-5.0%	3.7%	12966	12971	5	0.0%	3.7%	0	0	0	
4.9%	26703	25398	-1305	-4.9%	4.9%	17043	17019	-24	-0.1%	4.9%	10049	10046	-3	0.0%	4.9%	0	0	0	
6.2%	22915	24922	2007	8.8%	6.2%	16703	14787	-1916	-11.5%	6.2%	9208	8448	-759	-8.2%	6.2%	0	0	0	
7.4%	18664	20647	1982	10.6%	7.4%	14755	14311	-445	-3.0%	7.4%	5026	5025	0	0.0%	7.4%	0	0	0	
8.6%	17950	18007	57	0.3%	8.6%	12737	11006	-1730	-13.6%	8.6%	2869	3401	533	18.6%	8.6%	0	0	0	
9.9%	17925	16653	-1272	-7.1%	9.9%	11398	10497	-901	-7.9%	9.9%	1890	2877	987	52.2%	9.9%	0	0	0	
11.1%	17625	15891	-1734	-9.8%	11.1%	10899	10165	-734	-6.7%	11.1%	1857	1805	-52	-2.8%	11.1%	0	0	0	
12.3%	17461	15819	-1643	-9.4%	12.3%	10493	9826	-667	-6.4%	12.3%	1459	1489	30	2.0%	12.3%	0	0	0	
13.6%	15972	13590	-2382	-14.9%	13.6%	6055	6051	-4	-0.1%	13.6%	1283	1249	-34	-2.7%	13.6%	0	0	0	
14.8%	12659	13062	403	3.2%	14.8%	5729	5541	-188	-3.3%	14.8%	1259	1226	-33	-2.6%	14.8%	0	0	0	
16.0%	11444	10961	-482	-4.2%	16.0%	5270	4773	-497	-9.4%	16.0%	1251	1036	-216	-17.2%	16.0%	0	0	0	
17.3%	11105	10216	-889	-8.0%	17.3%	4505	4495	-10	-0.2%	17.3%	1206	965	-241	-20.0%	17.3%	0	0	0	
18.5%	9984	10164	181	1.8%	18.5%	4280	4283	3	0.1%	18.5%	659	660	1	0.2%	18.5%	0	0	0	
19.8%	9724	9024	-699	-7.2%	19.8%	4180	4125	-55	-1.3%	19.8%	213	212	-1	-0.3%	19.8%	0	0	0	
21.0%	9497	8308	-1189	-12.5%	21.0%	3669	3644	-25	-0.7%	21.0%	48	46	-2		21.0%	0	0	0	
22.2%	7924	7147	-777	-9.8%	22.2%	3346	3345	-1	0.0%	22.2%	10	0	-10		22.2%	0	0	0	
23.5%	7401	7055	-346	-4.7%	23.5%	3001	2833	-168	-5.6%	23.5%	0	0	0		23.5%	0	0	0	
24.7%	7267	5798	-1469	-20.2%	24.7%	2925	2747	-178	-6.1%	24.7%	0	0	0		24.7%	0	0	0	
25.9%	5435	5660	226	4.2%	25.9%	2758	2426	-333	-12.1%	25.9%	0	0	0		25.9%	0	0	0	
27.2%	5428	5210	-218	-4.0%	27.2%	2475	2366	-109	-4.4%	27.2%	0	0	0		27.2%	0	0	0	
28.4%	5342	4441	-901	-16.9%	28.4%	1861	1417	-444	-23.9%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	5275	3789	-1486	-28.2%	29.6%	1574	833	-740	-47.0%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	5208	3375	-1834	-35.2%	30.9%	1139	788	-352	-30.9%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	4943	2777	-2166	-43.8%	32.1%	1074	662	-412	-38.4%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3667	2721	-945	-25.8%	33.3%	917	593	-324	-35.3%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	2783	2289	-494	-17.8%	34.6%	654	591	-62	-9.5%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	2667	2253	-414	-15.5%	35.8%	590	250	-339	-57.6%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2603	2138	-465	-17.9%	37.0%	571	212	-360	-63.0%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2391	1950	-441	-18.4%	38.3%	477	206	-271	-56.8%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2311	1868	-443	-19.2%	39.5%	421	168	-253	-60.0%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2307	1726	-582	-25.2%	40.7%	400	157	-243	-60.8%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	1990	1555	-435	-21.9%	42.0%	369	139	-230	-62.4%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	1940	1541	-398	-20.5%	43.2%	202	121	-81	-40.1%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1906	1429	-476	-25.0%	44.4%	196	59	-137	-69.7%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1681	817	-864	-51.4%	45.7%	48	29	-19		45.7%	0	0	0		45.7%	0	0	0	
46.9%	983	688	-295	-30.0%	46.9%	39	0	-39		46.9%	0	0	0		46.9%	0	0	0	
48.1%	553	591	38	6.9%	48.1%	1	0	-1		48.1%	0	0	0		48.1%	0	0	0	
49.4%	534	414	-120	-22.4%	49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	498	371	-127	-25.5%	50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	290	274	-16	-5.5%	51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	160	99	-62		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	145	92	-53		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-3b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	1574	1444	-129	-8.2%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

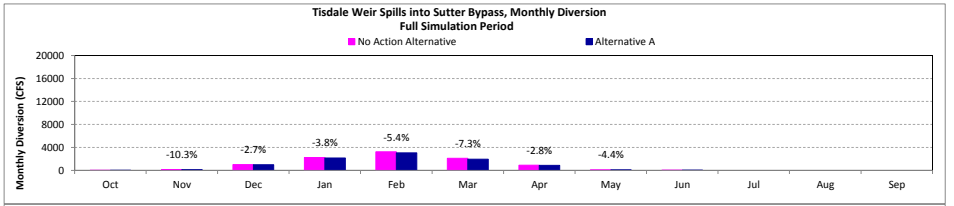
Table SW-52-3a
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

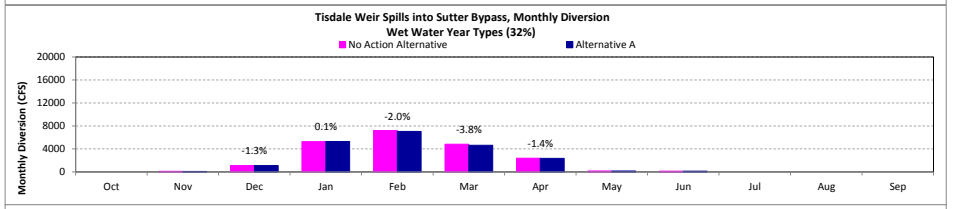
Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	8	147	1010	2248	3231	2125	897	89	45	0	0	0
Alternative A	11	132	983	2162	3058	1969	872	85	45	0	0	0
Difference	3	-15	-27	-85	-173	-156	-25	-4	-1	0	0	0
Percent Difference[3]		-10.3%	-2.7%	-3.8%	-5.4%	-7.3%	-2.8%	-4.4%				
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	98	1109	5277	7193	4834	2396	169	143	0	0	0
Alternative A	0	91	1095	5283	7050	4650	2363	158	141	0	0	0
Difference	0	-7	-14	5	-144	-185	-33	-11	-2	0	0	0
Percent Difference			-1.3%	0.1%	-2.0%	-3.8%	-1.4%					
Above Normal (15%)												
No Action Alternative	0	511	1096	2726	3647	3200	767	241	0	0	0	0
Alternative A	1	446	1011	2375	3389	2860	714	239	0	0	0	0
Difference	1	-65	-85	-350	-258	-340	-53	-2	0	0	0	0
Percent Difference		-12.8%	-7.8%	-12.9%	-7.1%	-10.6%	-6.9%	-0.8%				
Below Normal (17%)												
No Action Alternative	49	101	1231	613	1293	265	147	0	0	0	0	0
Alternative A	65	101	1296	549	1012	158	110	0	0	0	0	0
Difference	16	0	65	-64	-281	-106	-37	0	0	0	0	0
Percent Difference	33.2%	0.2%	5.3%	-10.4%	-21.7%	-40.1%	-25.3%					
Dry (22%)												
No Action Alternative	0	110	1255	278	823	356	0	0	0	0	0	0
Alternative A	0	95	1160	177	643	224	0	0	0	0	0	0
Difference	0	-15	-95	-101	-180	-132	0	0	0	0	0	0
Percent Difference		-13.7%	-7.5%	-36.3%	-21.9%	-37.1%						
Critical (15%)												
No Action Alternative	0	0	86	67	101	3	0	0	0	0	0	0
Alternative A	0	0	84	47	87	0	0	0	0	0	0	0
Difference	0	0	-3	-20	-14	-3	0	0	0	0	0	0
Percent Difference			-3.3%	-29.5%	-14.0%	-100.0%						

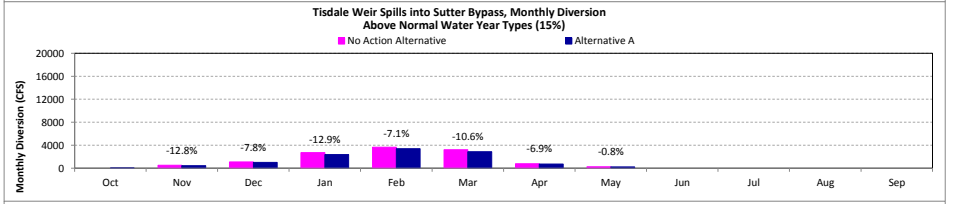
1 Based on the 82-year simulation period

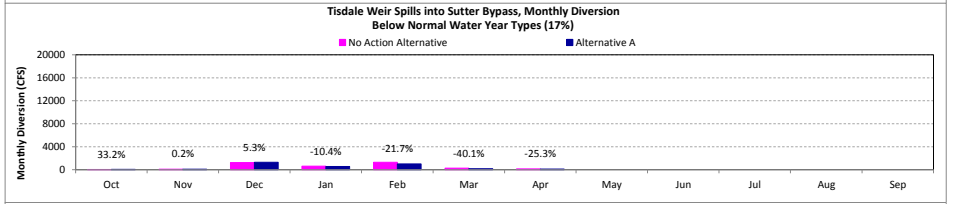
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

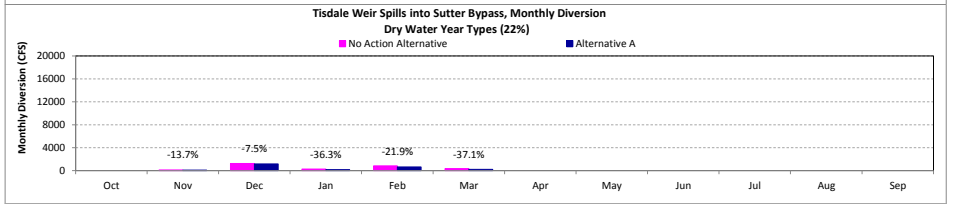
3 Relative difference of the monthly average











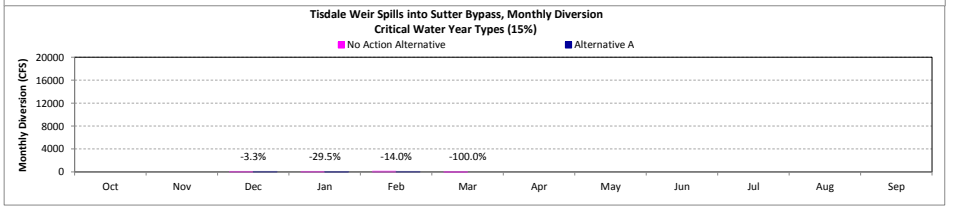


Figure SW-52-3b
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

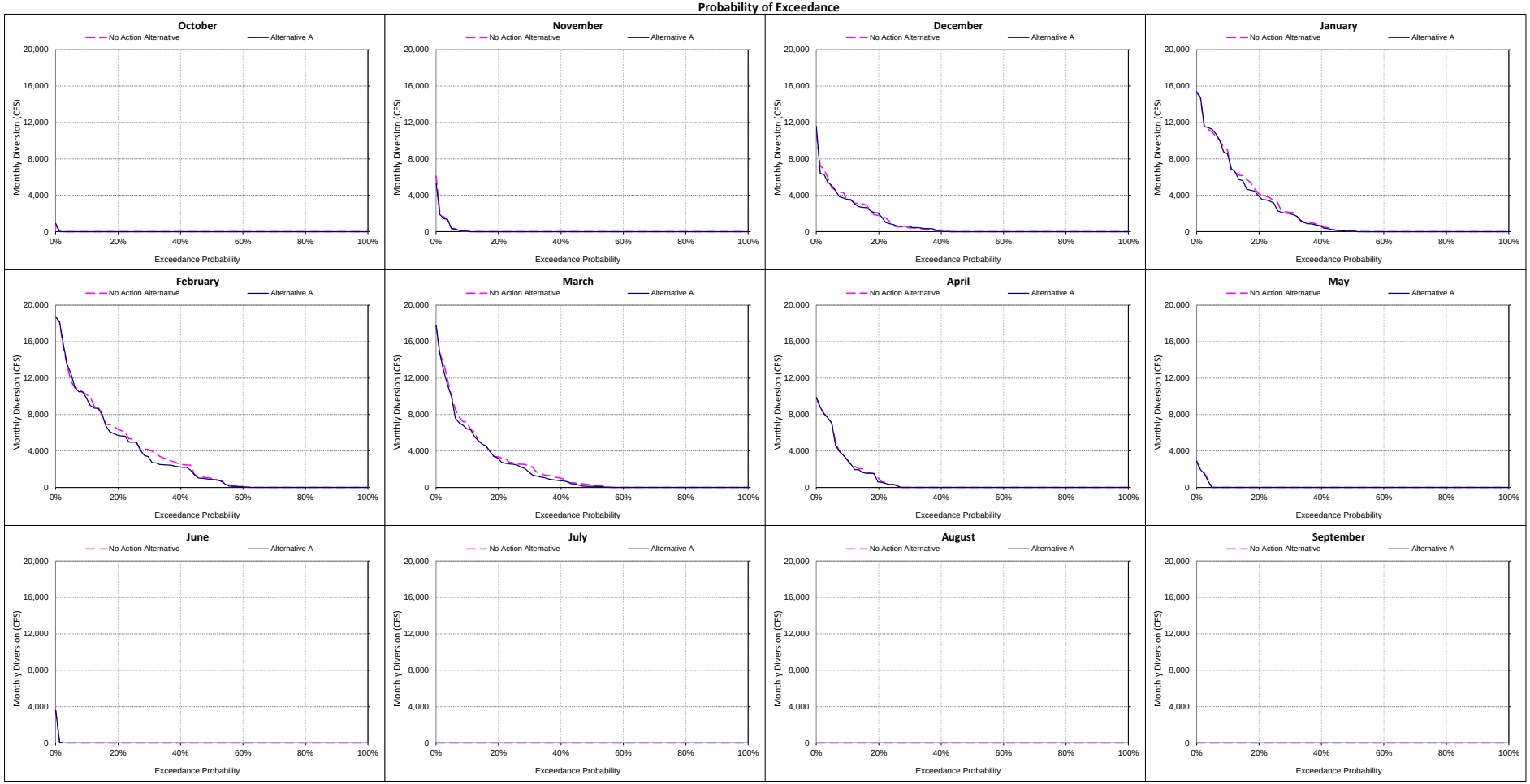


Table SW-52-3b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	685	912	227	33.2%	0.0%	6110	5310	-800	-13.1%	0.0%	10781	11564	783	7.3%	0.0%	15256	15398	141	0.9%
1.2%	0	12	12		1.2%	2168	1904	-264	-12.2%	1.2%	7215	6414	-802	-11.1%	1.2%	14749	14770	21	0.1%
2.5%	0	0	0		2.5%	1645	1439	-205	-12.5%	2.5%	6852	6257	-594	-8.7%	2.5%	11425	11537	113	1.0%
3.7%	0	0	0		3.7%	1333	1341	8	0.6%	3.7%	5913	5440	-474	-8.0%	3.7%	11244	11417	173	1.5%
4.9%	0	0	0		4.9%	334	333	-1	-0.2%	4.9%	4807	5074	267	5.5%	4.9%	10953	11250	298	2.7%
6.2%	0	0	0		6.2%	314	268	-46	-14.8%	6.2%	4589	4509	-80	-1.7%	6.2%	10456	10768	312	3.0%
7.4%	0	0	0		7.4%	77	117	41	53.1%	7.4%	4335	3832	-503	-11.6%	7.4%	10022	10037	15	0.1%
8.6%	0	0	0		8.6%	32	78	46	143.3%	8.6%	4324	3705	-620	-14.3%	8.6%	9259	8768	-492	-5.3%
9.9%	0	0	0		9.9%	29	37	8	28.1%	9.9%	3467	3557	90	2.6%	9.9%	9014	8543	-470	-5.2%
11.1%	0	0	0		11.1%	15	0	-15	-100.0%	11.1%	3452	3514	62	1.8%	11.1%	6571	6919	348	5.3%
12.3%	0	0	0		12.3%	6	0	-6		12.3%	3136	3052	-84	-2.7%	12.3%	6512	6566	54	0.8%
13.6%	0	0	0		13.6%	4	0	-4		13.6%	3069	2764	-305	-9.9%	13.6%	6193	5723	-470	-7.6%
14.8%	0	0	0		14.8%	0	0	0		14.8%	3047	2661	-386	-12.7%	14.8%	6139	5620	-519	-8.5%
16.0%	0	0	0		16.0%	0	0	0		16.0%	2933	2640	-293	-10.0%	16.0%	5743	4655	-1088	-18.9%
17.3%	0	0	0		17.3%	0	0	0		17.3%	2353	2312	-41	-1.7%	17.3%	5398	4541	-857	-15.9%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1860	2109	250	13.4%	18.5%	4727	4453	-274	-5.8%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1805	2063	258	14.3%	19.8%	4232	3982	-250	-5.9%
21.0%	0	0	0		21.0%	0	0	0		21.0%	1607	1591	-17	-1.0%	21.0%	3952	3524	-428	-10.8%
22.2%	0	0	0		22.2%	0	0	0		22.2%	1526	1025	-501	-32.9%	22.2%	3881	3500	-381	-9.8%
23.5%	0	0	0		23.5%	0	0	0		23.5%	1138	871	-267	-23.4%	23.5%	3723	3364	-358	-9.6%
24.7%	0	0	0		24.7%	0	0	0		24.7%	628	777	149	23.7%	24.7%	3397	3152	-245	-7.2%
25.9%	0	0	0		25.9%	0	0	0		25.9%	537	626	89	16.6%	25.9%	3236	2288	-947	-29.3%
27.2%	0	0	0		27.2%	0	0	0		27.2%	534	612	77	14.5%	27.2%	2265	2127	-138	-6.1%
28.4%	0	0	0		28.4%	0	0	0		28.4%	501	585	83	16.6%	28.4%	2209	2052	-157	-7.1%
29.6%	0	0	0		29.6%	0	0	0		29.6%	411	573	163	39.6%	29.6%	2125	2004	-121	-5.7%
30.9%	0	0	0		30.9%	0	0	0		30.9%	404	455	50	12.4%	30.9%	2108	1882	-226	-10.7%
32.1%	0	0	0		32.1%	0	0	0		32.1%	398	439	41	10.3%	32.1%	1700	1700	0	0.0%
33.3%	0	0	0		33.3%	0	0	0		33.3%	330	402	72	21.9%	33.3%	1161	1241	80	6.9%
34.6%	0	0	0		34.6%	0	0	0		34.6%	278	326	47	17.1%	34.6%	1085	987	-99	-9.1%
35.8%	0	0	0		35.8%	0	0	0		35.8%	251	319	68	26.9%	35.8%	1066	872	-193	-18.1%
37.0%	0	0	0		37.0%	0	0	0		37.0%	210	316	106	50.2%	37.0%	977	834	-143	-14.6%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	182	94	107.6%	38.3%	836	734	-102	-12.2%
39.5%	0	0	0		39.5%	0	0	0		39.5%	50	41	-9		39.5%	824	658	-166	-20.1%
40.7%	0	0	0		40.7%	0	0	0		40.7%	16	19	3		40.7%	482	383	-99	-20.5%
42.0%	0	0	0		42.0%	0	0	0		42.0%	13	11	-2		42.0%	451	334	-116	-25.8%
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	319	230	-88	-27.7%
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	174	144	-29	-16.9%
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	103	143	40	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	98	87	-11	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	96	47	-49	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	55	33	-22	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	42	30	-12	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	35	0	-35	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	12	0	-12	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	2	0	-2	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-3b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	18736	18733	-3	0.0%	0.0%	17777	17777	0	0.0%	0.0%	9875	9859	-16	-0.2%	0.0%	2892	2870	-23	-0.8%
1.2%	18159	18138	-21	-0.1%	1.2%	14705	14697	-8	-0.1%	1.2%	8796	8798	2	0.0%	1.2%	1980	1930	-50	-2.5%
2.5%	15350	15598	247	1.6%	2.5%	13585	12770	-815	-6.0%	2.5%	8066	8089	24	0.3%	2.5%	1550	1528	-22	-1.4%
3.7%	13328	13486	158	1.2%	3.7%	11791	11229	-562	-4.8%	3.7%	7657	7658	1	0.0%	3.7%	873	649	-223	-25.6%
4.9%	11640	12457	817	7.0%	4.9%	9970	9961	-9	-0.1%	4.9%	7057	7056	-1	0.0%	4.9%	0	0	0	
6.2%	10925	10962	37	0.3%	6.2%	8585	7599	-986	-11.5%	6.2%	4953	4632	-322	-6.5%	6.2%	0	0	0	
7.4%	10864	10513	-351	-3.2%	7.4%	7690	7076	-614	-8.0%	7.4%	3949	3949	0	0.0%	7.4%	0	0	0	
8.6%	10452	10487	34	0.3%	8.6%	7209	6827	-382	-5.3%	8.6%	3511	3515	4	0.1%	8.6%	0	0	0	
9.9%	10203	9767	-436	-4.3%	9.9%	7184	6422	-762	-10.6%	9.9%	3009	3017	8	0.3%	9.9%	0	0	0	
11.1%	9890	9000	-890	-9.0%	11.1%	6322	6322	0	0.0%	11.1%	2471	2533	63	2.5%	11.1%	0	0	0	
12.3%	8871	8714	-158	-1.8%	12.3%	6110	5570	-541	-8.8%	12.3%	2286	1938	-348	-15.2%	12.3%	0	0	0	
13.6%	8858	8675	-182	-2.1%	13.6%	5093	5092	-1	0.0%	13.6%	2059	1930	-128	-6.2%	13.6%	0	0	0	
14.8%	7839	8072	233	3.0%	14.8%	4819	4737	-83	-1.7%	14.8%	2027	1615	-412	-20.3%	14.8%	0	0	0	
16.0%	6949	6770	-179	-2.6%	16.0%	4524	4526	2	0.1%	16.0%	1642	1537	-105	-6.4%	16.0%	0	0	0	
17.3%	6880	6099	-782	-11.4%	17.3%	3954	3949	-5	-0.1%	17.3%	1579	1530	-49	-3.1%	17.3%	0	0	0	
18.5%	6738	5942	-796	-11.8%	18.5%	3390	3385	-4	-0.1%	18.5%	1525	1528	3	0.2%	18.5%	0	0	0	
19.8%	6425	5724	-701	-10.9%	19.8%	3359	3213	-146	-4.4%	19.8%	1066	591	-476	-44.6%	19.8%	0	0	0	
21.0%	6243	5654	-589	-9.4%	21.0%	3225	2742	-483	-15.0%	21.0%	595	556	-40	-6.7%	21.0%	0	0	0	
22.2%	6027	5633	-394	-6.5%	22.2%	3184	2645	-538	-16.9%	22.2%	547	424	-123	-22.4%	22.2%	0	0	0	
23.5%	5332	4962	-370	-6.9%	23.5%	2752	2582	-170	-6.2%	23.5%	310	307	-3	-0.8%	23.5%	0	0	0	
24.7%	5325	4955	-369	-6.9%	24.7%	2704	2534	-170	-6.3%	24.7%	305	302	-2	-0.7%	24.7%	0	0	0	
25.9%	4823	4954	131	2.7%	25.9%	2562	2470	-92	-3.6%	25.9%	274	170	-104	-37.9%	25.9%	0	0	0	
27.2%	4221	4085	-137	-3.2%	27.2%	2543	2233	-310	-12.2%	27.2%	7	4	-3		27.2%	0	0	0	
28.4%	4202	3520	-682	-16.2%	28.4%	2531	2081	-450	-17.8%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	4164	3358	-806	-19.4%	29.6%	2375	1706	-669	-28.2%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	3976	2712	-1264	-31.8%	30.9%	2249	1371	-878	-39.0%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	3709	2674	-1034	-27.9%	32.1%	1701	1258	-443	-26.1%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3409	2520	-889	-26.1%	33.3%	1567	1137	-431	-27.5%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	3214	2488	-726	-22.6%	34.6%	1365	1092	-272	-20.0%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	3121	2446	-676	-21.7%	35.8%	1304	949	-355	-27.2%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2867	2413	-454	-15.8%	37.0%	1266	862	-404	-31.9%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2787	2321	-466	-16.7%	38.3%	1110	788	-322	-29.0%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2531	2246	-286	-11.3%	39.5%	1051	741	-310	-29.5%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2503	2197	-305	-12.2%	40.7%	935	727	-208	-22.2%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	2452	2197	-255	-10.4%	42.0%	598	638	41	6.8%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	2444	1896	-548	-22.4%	43.2%	508	404	-104	-20.5%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1429	1369	-60	-4.2%	44.4%	504	373	-131	-26.1%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1202	1040	-162	-13.5%	45.7%	416	267	-149	-35.9%	45.7%	0	0	0		45.7%	0	0	0	
46.9%	1153	988	-166	-14.4%	46.9%	406	141	-265	-65.2%	46.9%	0	0	0		46.9%	0	0	0	
48.1%	1064	931	-133	-12.5%	48.1%	333	129	-204	-61.3%	48.1%	0	0	0		48.1%	0	0	0	
49.4%	1053	874	-179	-17.0%	49.4%	302	109	-193	-64.1%	49.4%	0	0	0		49.4%	0	0	0	
50.6%	866	850	-17	-1.9%	50.6%	217	108	-109	-50.2%	50.6%	0	0	0		50.6%	0	0	0	
51.9%	776	829	53	6.8%	51.9%	171	94	-77	-45.0%	51.9%	0	0	0		51.9%	0	0	0	
53.1%	754	657	-97	-12.9%	53.1%	156	83	-73	-47.0%	53.1%	0	0	0		53.1%	0	0	0	
54.3%	382	347	-35	-9.1%	54.3%	95	42	-53		54.3%	0	0	0		54.3%	0	0	0	
55.6%	274	144	-130	-47.5%	55.6%	33	0	-33		55.6%	0	0	0		55.6%	0	0	0	
56.8%	149	111	-38		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	137	109	-28		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	131	90	-41		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	53	35	-19		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	31	9	-22		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	21	0	-21		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	1	0	-1		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-3b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative A Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	3625	3567	-58	-1.6%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	97	93	-3	-3.6%	1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Alternative B Compared to No Action Alternative

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Table SW-49-5a
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	0	0	63	257	431	189	14	0	0	0	0	0
Alternative B	0	0	68	232	399	174	11	0	0	0	0	0
Difference	0	0	5	-25	-32	-15	-2	0	0	0	0	0
Percent Difference[3]			8.4%	-9.8%	-7.3%	-8.0%	-16.9%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	0	29	779	1213	554	34	0	0	0	0	0
Alternative B	0	0	36	717	1136	517	29	0	0	0	0	0
Difference	0	0	7	-62	-77	-38	-5	0	0	0	0	0
Percent Difference			22.7%	-7.9%	-6.4%	-6.8%	-15.4%					
Above Normal (15%)												
No Action Alternative	0	0	1	68	316	88	19	0	0	0	0	0
Alternative B	0	0	8	30	268	67	14	0	0	0	0	0
Difference	0	0	7	-38	-48	-21	-4	0	0	0	0	0
Percent Difference				-55.9%	-15.2%	-23.8%	-22.8%					
Below Normal (17%)												
No Action Alternative	0	0	123	0	0	0	0	0	0	0	0	0
Alternative B	0	0	153	0	0	0	0	0	0	0	0	0
Difference	0	0	30	0	0	0	0	0	0	0	0	0
Percent Difference			24.1%									
Dry (22%)												
No Action Alternative	0	0	147	0	0	0	0	0	0	0	0	0
Alternative B	0	0	134	0	0	0	0	0	0	0	0	0
Difference	0	0	-13	0	0	0	0	0	0	0	0	0
Percent Difference			-9.1%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative B	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

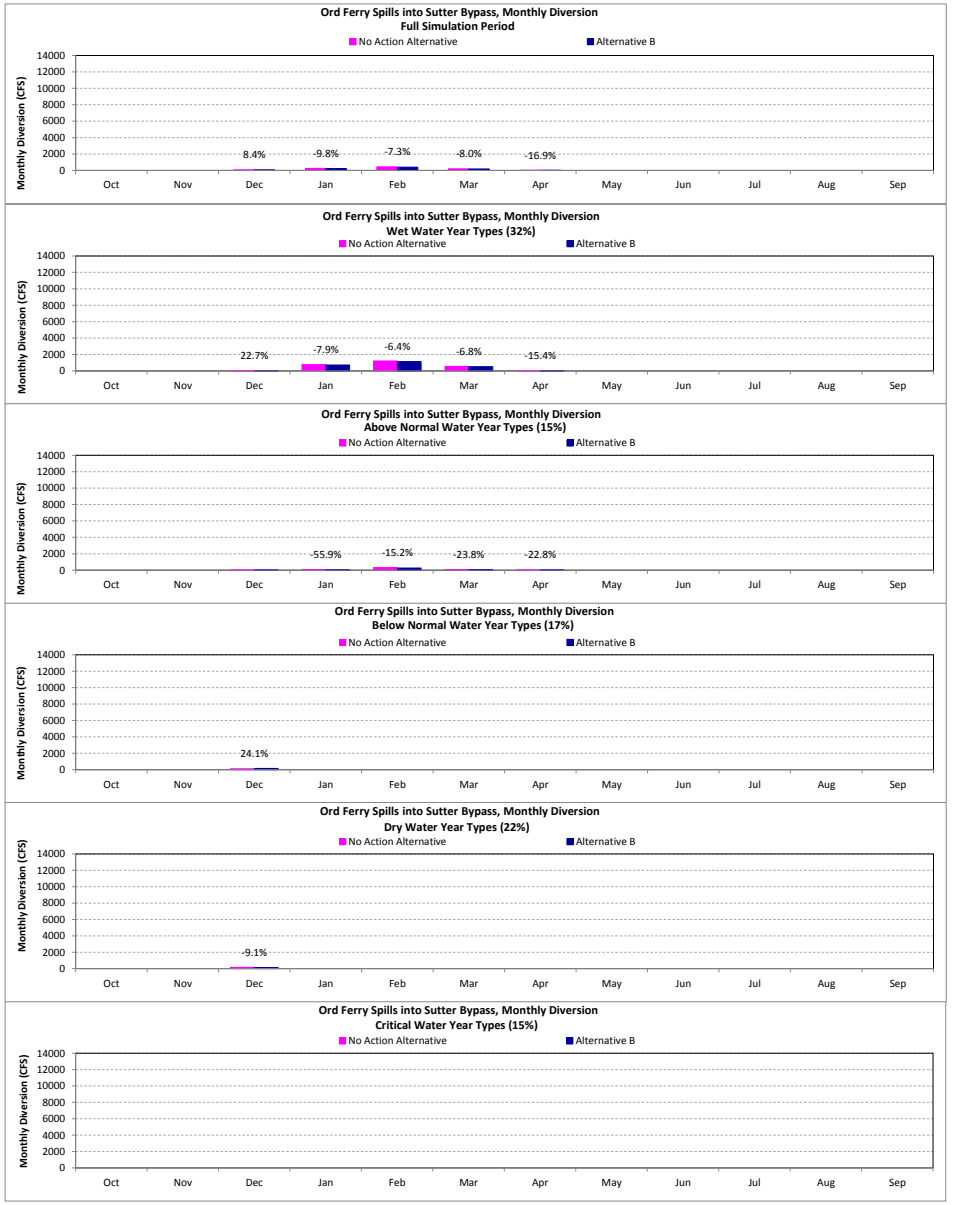


Figure SW-49-5b
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

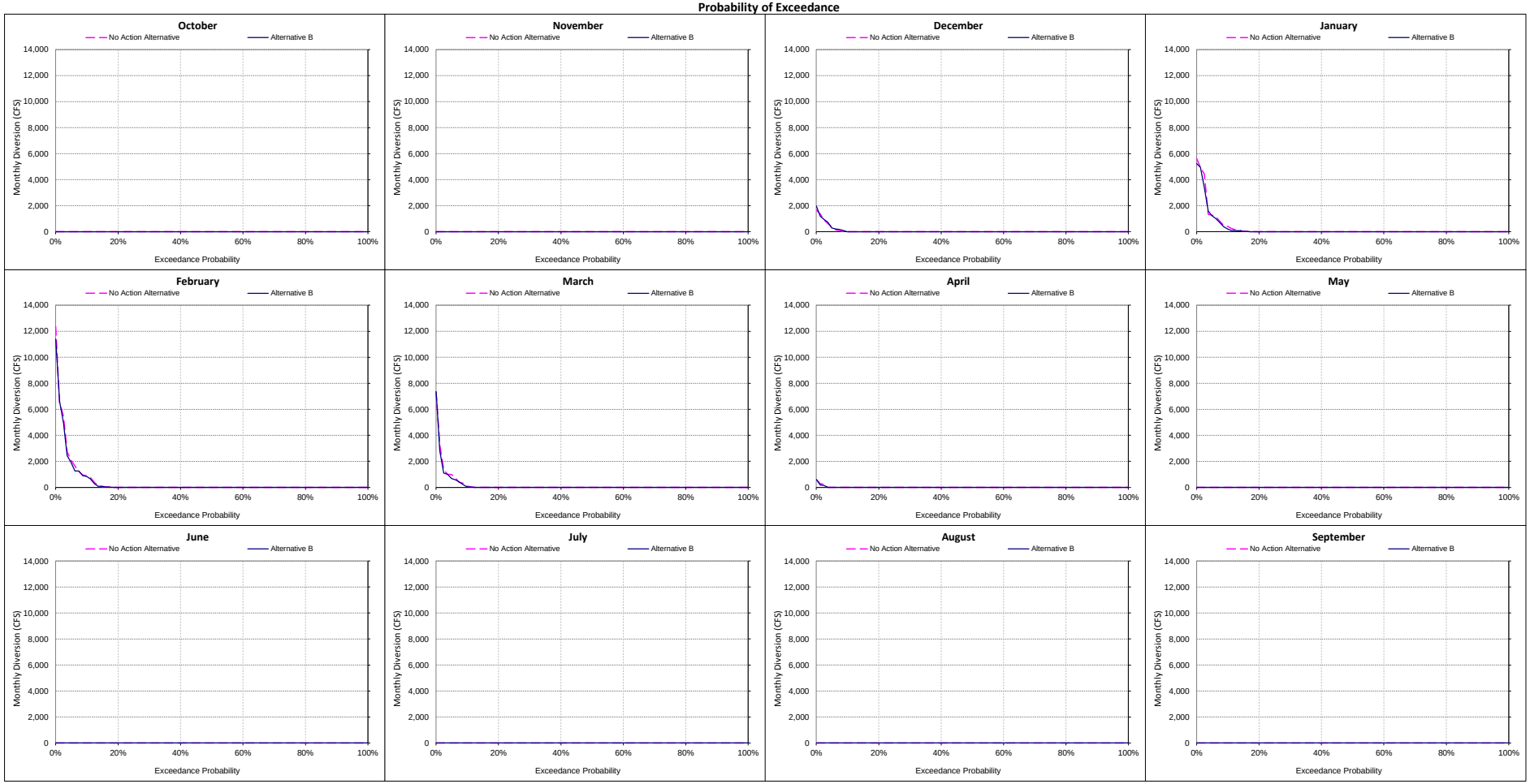


Table SW-49-5b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1973	314	18.9%	0.0%	5633	5253	-381	-6.8%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1186	-179	-13.1%	1.2%	4956	4949	-7	-0.1%
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	937	30	3.3%	2.5%	4426	3392	-1034	-23.4%
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	722	106	17.1%	3.7%	1331	1595	264	19.8%
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	284	-93	-24.7%	4.9%	1271	1221	-50	-3.9%
6.2%	0	0	0		6.2%	0	0	0		6.2%	150	218	68	45.4%	6.2%	1147	1018	-129	-11.2%
7.4%	0	0	0		7.4%	0	0	0		7.4%	70	172	102	145.9%	7.4%	807	704	-102	-12.7%
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	91	84		8.6%	492	395	-97	-19.6%
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	408	206	-203	-49.6%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	255	85	-171	-66.8%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	135	84	-51	-37.8%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	131	71	-60	-45.7%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	29	23	-6	-20.0%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	25	3	-22	-86.5%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	21	0	-21	-100.0%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-5b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	12366	11394	-972	-7.9%	0.0%	7360	7359	-1	0.0%	0.0%	608	607	0	0.0%	0.0%	0	0	0	
1.2%	6536	6618	81	1.2%	1.2%	3196	2800	-396	-12.4%	1.2%	285	173	-111	-39.1%	1.2%	0	0	0	
2.5%	5493	4949	-544	-9.9%	2.5%	1350	1097	-252	-18.7%	2.5%	225	148	-77	-34.3%	2.5%	0	0	0	
3.7%	2709	2445	-263	-9.7%	3.7%	994	993	0	0.0%	3.7%	0	0	0		3.7%	0	0	0	
4.9%	2095	1921	-175	-8.3%	4.9%	987	679	-308	-31.2%	4.9%	0	0	0		4.9%	0	0	0	
6.2%	1642	1267	-375	-22.8%	6.2%	737	585	-152	-20.6%	6.2%	0	0	0		6.2%	0	0	0	
7.4%	1220	1262	43	3.5%	7.4%	383	425	41	10.8%	7.4%	0	0	0		7.4%	0	0	0	
8.6%	957	895	-62	-6.5%	8.6%	322	222	-100	-31.1%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	889	837	-51	-5.8%	9.9%	91	47	-44	-48.7%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	763	665	-98	-12.8%	11.1%	49	29	-20	-40.6%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	391	293	-99	-25.2%	12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	120	77	-43	-35.8%	13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	63	75	12	19.3%	14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	50	30	-20	-40.6%	16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	41	23	-18	-44.5%	17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-5b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

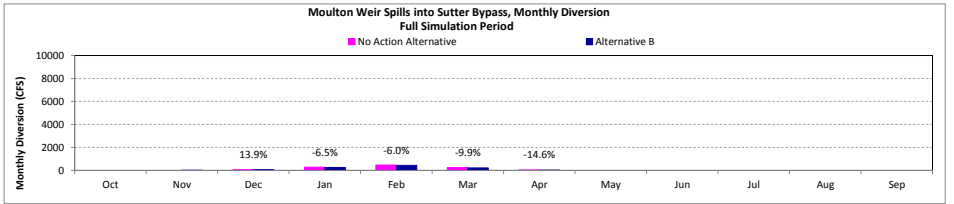
Table SW-50-5a
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

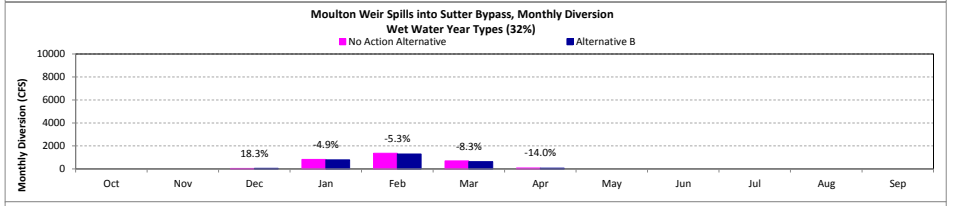
Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	0	0	59	283	467	240	32	0	0	0	0	0
Alternative B	0	0	67	265	439	216	27	0	0	0	0	0
Difference	0	0	8	-19	-28	-24	-5	0	0	0	0	0
Percent Difference[3]			13.9%	-6.5%	-6.0%	-9.9%	-14.6%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	0	42	829	1367	690	83	0	0	0	0	0
Alternative B	0	0	49	789	1294	633	71	0	0	0	0	0
Difference	0	0	8	-40	-73	-57	-12	0	0	0	0	0
Percent Difference			18.3%	-4.9%	-5.3%	-8.3%	-14.0%					
Above Normal (15%)												
No Action Alternative	0	0	7	139	229	147	38	0	0	0	0	0
Alternative B	0	0	15	98	190	108	32	0	0	0	0	0
Difference	0	0	9	-41	-38	-39	-7	0	0	0	0	0
Percent Difference			130.4%	-29.4%	-16.7%	-26.5%	-17.4%					
Below Normal (17%)												
No Action Alternative	0	0	94	1	0	0	0	0	0	0	0	0
Alternative B	0	0	115	3	6	0	0	0	0	0	0	0
Difference	0	0	21	1	6	0	0	0	0	0	0	0
Percent Difference			22.0%	107.8%								
Dry (22%)												
No Action Alternative	0	0	130	0	0	0	0	0	0	0	0	0
Alternative B	0	0	134	0	0	0	0	0	0	0	0	0
Difference	0	0	4	0	0	0	0	0	0	0	0	0
Percent Difference			3.2%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative B	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

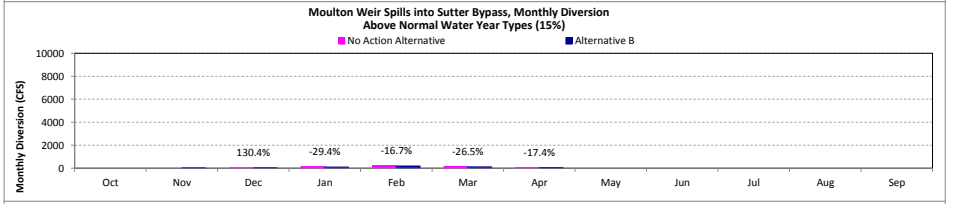
1 Based on the 82-year simulation period

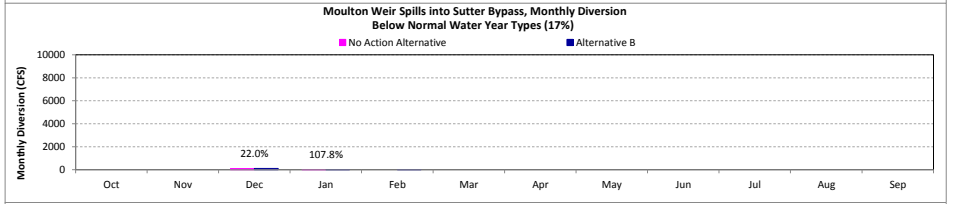
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

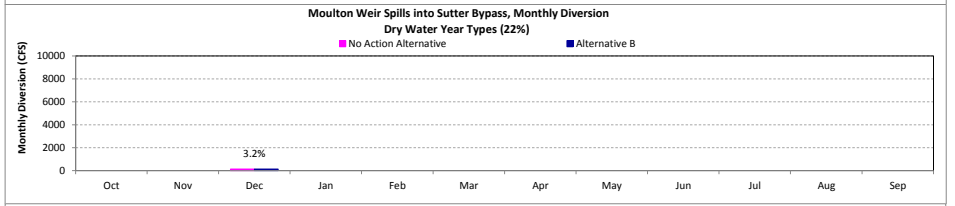
3 Relative difference of the monthly average











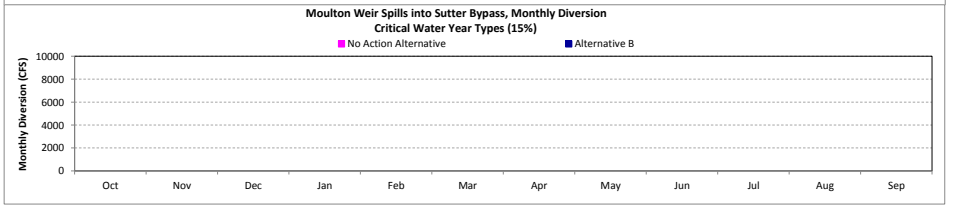


Figure SW-50-5b
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

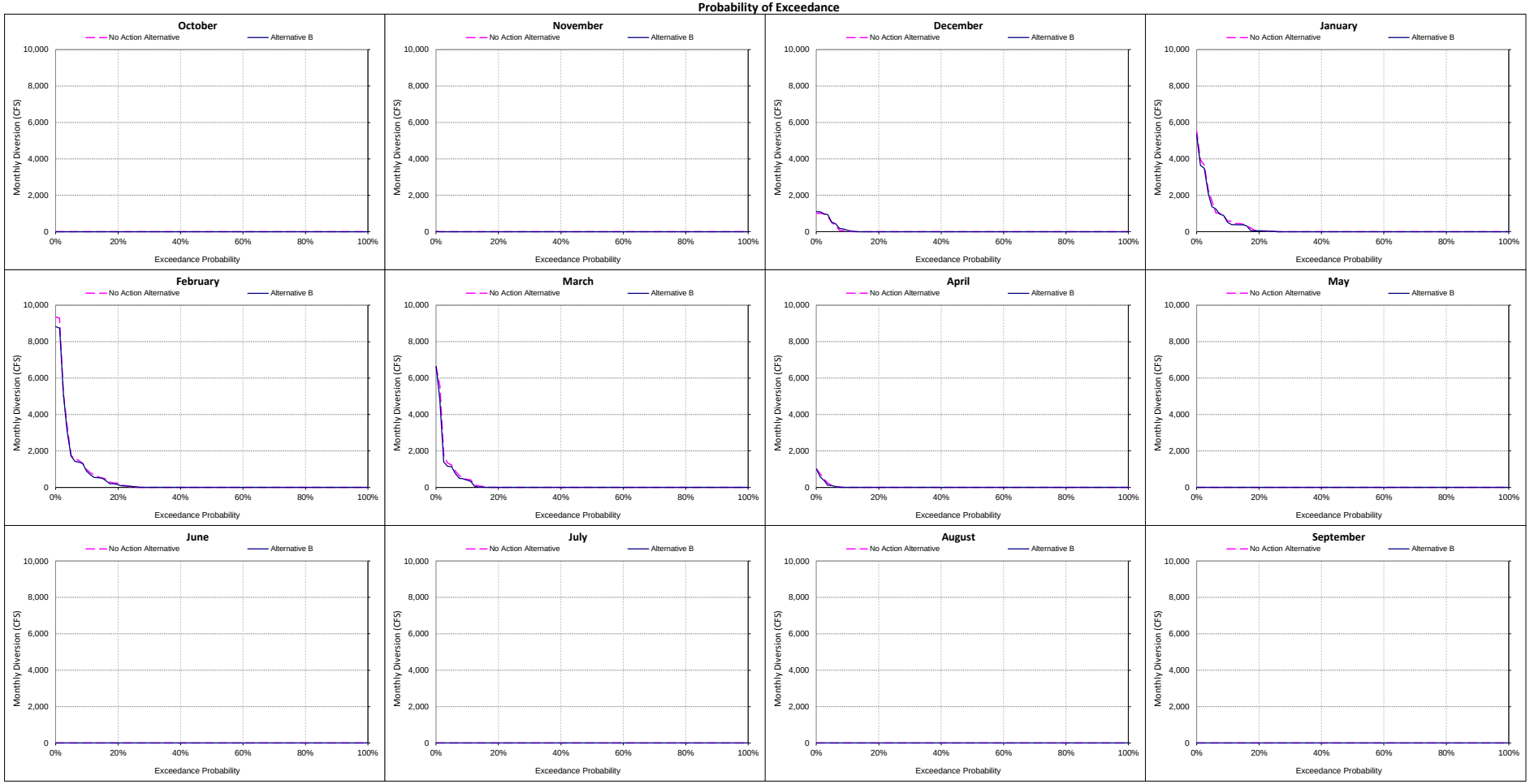


Table SW-50-5b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	1	1		0.0%	1010	1101	90	9.0%	0.0%	5535	5366	-169	-3.1%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1009	1086	77	7.7%	1.2%	3947	3652	-296	-7.5%
2.5%	0	0	0		2.5%	0	0	0		2.5%	969	978	9	0.9%	2.5%	3653	3468	-184	-5.0%
3.7%	0	0	0		3.7%	0	0	0		3.7%	839	932	93	11.1%	3.7%	2312	2104	-208	-9.0%
4.9%	0	0	0		4.9%	0	0	0		4.9%	494	523	30	6.0%	4.9%	1658	1373	-285	-17.2%
6.2%	0	0	0		6.2%	0	0	0		6.2%	351	434	83	23.6%	6.2%	1025	1255	230	22.4%
7.4%	0	0	0		7.4%	0	0	0		7.4%	74	179	105	140.8%	7.4%	1003	967	-36	-3.6%
8.6%	0	0	0		8.6%	0	0	0		8.6%	53	145	92	175.3%	8.6%	890	893	3	0.4%
9.9%	0	0	0		9.9%	0	0	0		9.9%	28	75	48	170.6%	9.9%	594	525	-69	-11.6%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	36	36		11.1%	571	389	-182	-31.9%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	6	6		12.3%	446	379	-66	-14.9%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	444	376	-68	-15.3%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	414	375	-39	-9.5%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	309	323	14	4.6%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	213	66	-147	-69.1%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	77	46	-32	-40.7%
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	53	45	-8	-14.6%
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	47	38	-9	-18.8%
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	26	37	11	41.3%
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	18	28	10	56.5%
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	10	21	11	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-5b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	9355	8833	-522	-5.6%	0.0%	6639	6638	-1	0.0%	0.0%	1015	1016	0	0.0%	0.0%	0	0	0	
1.2%	9304	8740	-564	-6.1%	1.2%	5565	4842	-723	-13.0%	1.2%	737	576	-162	-21.9%	1.2%	0	0	0	
2.5%	5144	5086	-58	-1.1%	2.5%	1750	1401	-348	-19.9%	2.5%	459	379	-80	-17.4%	2.5%	0	0	0	
3.7%	3323	3070	-253	-7.6%	3.7%	1332	1154	-178	-13.4%	3.7%	227	116	-111	-48.9%	3.7%	0	0	0	
4.9%	1751	1732	-19	-1.1%	4.9%	1238	1138	-100	-8.1%	4.9%	96	96	0	-0.1%	4.9%	0	0	0	
6.2%	1559	1433	-126	-8.1%	6.2%	899	764	-135	-15.0%	6.2%	40	40	0	-0.1%	6.2%	0	0	0	
7.4%	1482	1381	-101	-6.8%	7.4%	664	497	-167	-25.1%	7.4%	36	7	-28	-79.4%	7.4%	0	0	0	
8.6%	1317	1315	-2	-0.1%	8.6%	469	469	0	0.0%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	976	880	-96	-9.8%	9.9%	443	404	-40	-9.0%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	806	701	-105	-13.0%	11.1%	412	333	-79	-19.2%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	682	541	-141	-20.7%	12.3%	124	59	-65	-52.6%	12.3%	0	0	0		12.3%	0	0	0	
13.6%	574	529	-45	-7.9%	13.6%	87	19	-68	-78.0%	13.6%	0	0	0		13.6%	0	0	0	
14.8%	510	517	6	1.2%	14.8%	47	15	-33	-69.3%	14.8%	0	0	0		14.8%	0	0	0	
16.0%	466	374	-91	-19.6%	16.0%	34	8	-27	-77.7%	16.0%	0	0	0		16.0%	0	0	0	
17.3%	290	206	-84	-28.9%	17.3%	1	6	6		17.3%	0	0	0		17.3%	0	0	0	
18.5%	239	198	-40	-16.8%	18.5%	1	0	-1		18.5%	0	0	0		18.5%	0	0	0	
19.8%	236	158	-78	-33.1%	19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	118	93	-24	-20.7%	21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	101	78	-24	-23.5%	22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	38	67	29	74.4%	23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	14	46	32		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	26	26		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-5b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

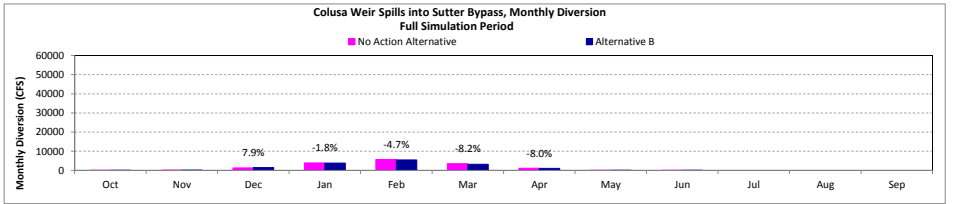
Table SW-51-5a
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

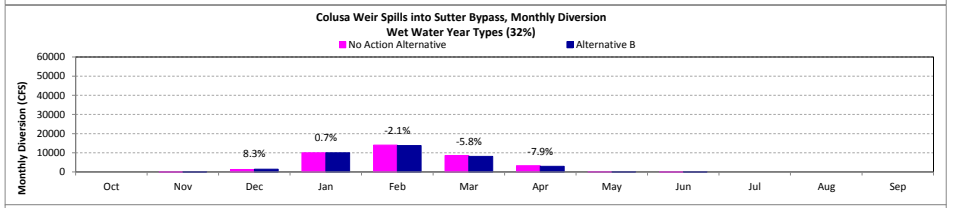
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						Monthly Diversion (CFS)						
						Long-term						
Full Simulation Period[1]												
No Action Alternative	7	126	1329	3917	5723	3523	1174	68	19	0	0	0
Alternative B	9	128	1434	3845	5456	3232	1080	54	18	0	0	0
Difference	3	1	105	-72	-267	-290	-94	-14	-1	0	0	0
Percent Difference[3]			7.9%	-1.8%	-4.7%	-8.2%	-8.0%					
						Water Year Types[2]						
Wet (32%)												
No Action Alternative	0	35	1292	9956	14022	8607	3195	128	61	0	0	0
Alternative B	0	62	1399	10021	13729	8104	2943	103	58	0	0	0
Difference	0	27	107	65	-293	-503	-252	-25	-3	0	0	0
Percent Difference			8.3%	0.7%	-2.1%	-5.8%	-7.9%					
Above Normal (15%)												
No Action Alternative	0	589	1240	3961	5888	4959	997	187	0	0	0	0
Alternative B	0	553	1192	3486	5371	4347	927	149	0	0	0	0
Difference	0	-36	-48	-475	-517	-612	-70	-38	0	0	0	0
Percent Difference		-6.1%	-3.9%	-12.0%	-8.8%	-12.3%	-7.1%	-20.4%				
Below Normal (17%)												
No Action Alternative	40	75	1613	716	1433	83	89	0	0	0	0	0
Alternative B	55	75	1838	709	1080	16	68	0	0	0	0	0
Difference	15	0	226	-7	-353	-67	-21	0	0	0	0	0
Percent Difference	37.4%	0.4%	14.0%	-1.0%	-24.7%	-80.2%	-24.0%					
Dry (22%)												
No Action Alternative	0	75	2090	256	768	245	0	0	0	0	0	0
Alternative B	0	65	2269	163	599	108	0	0	0	0	0	0
Difference	0	-10	179	-93	-169	-137	0	0	0	0	0	0
Percent Difference		-13.3%	8.6%	-36.3%	-22.1%	-55.9%						
Critical (15%)												
No Action Alternative	0	0	29	14	13	0	0	0	0	0	0	0
Alternative B	0	0	29	3	9	0	0	0	0	0	0	0
Difference	0	0	0	-11	-4	0	0	0	0	0	0	0
Percent Difference			-1.0%	-79.5%	-32.8%							

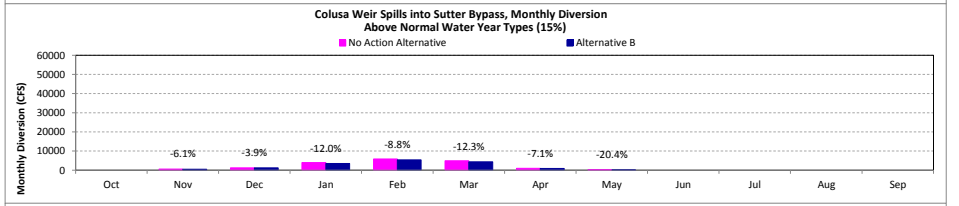
1 Based on the 82-year simulation period

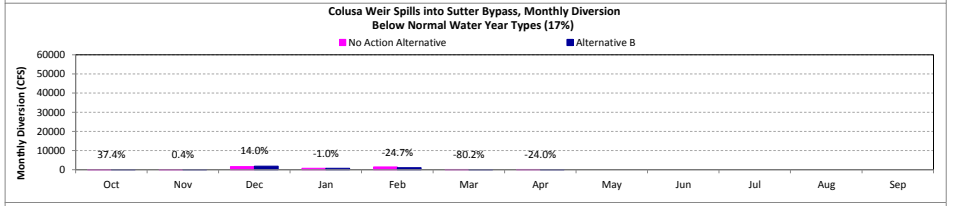
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

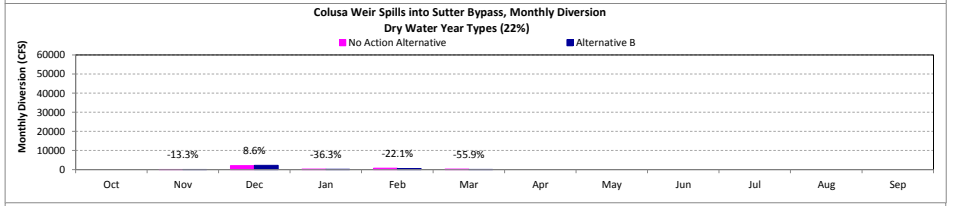
3 Relative difference of the monthly average











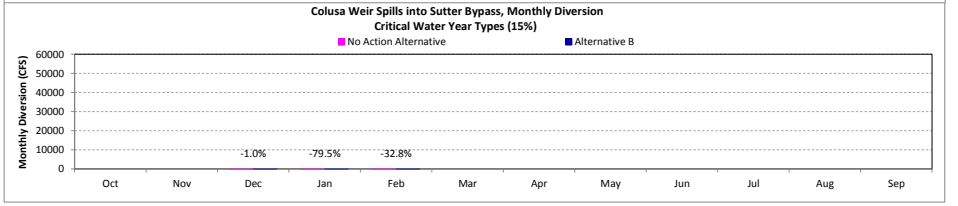


Figure SW-51-5b
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

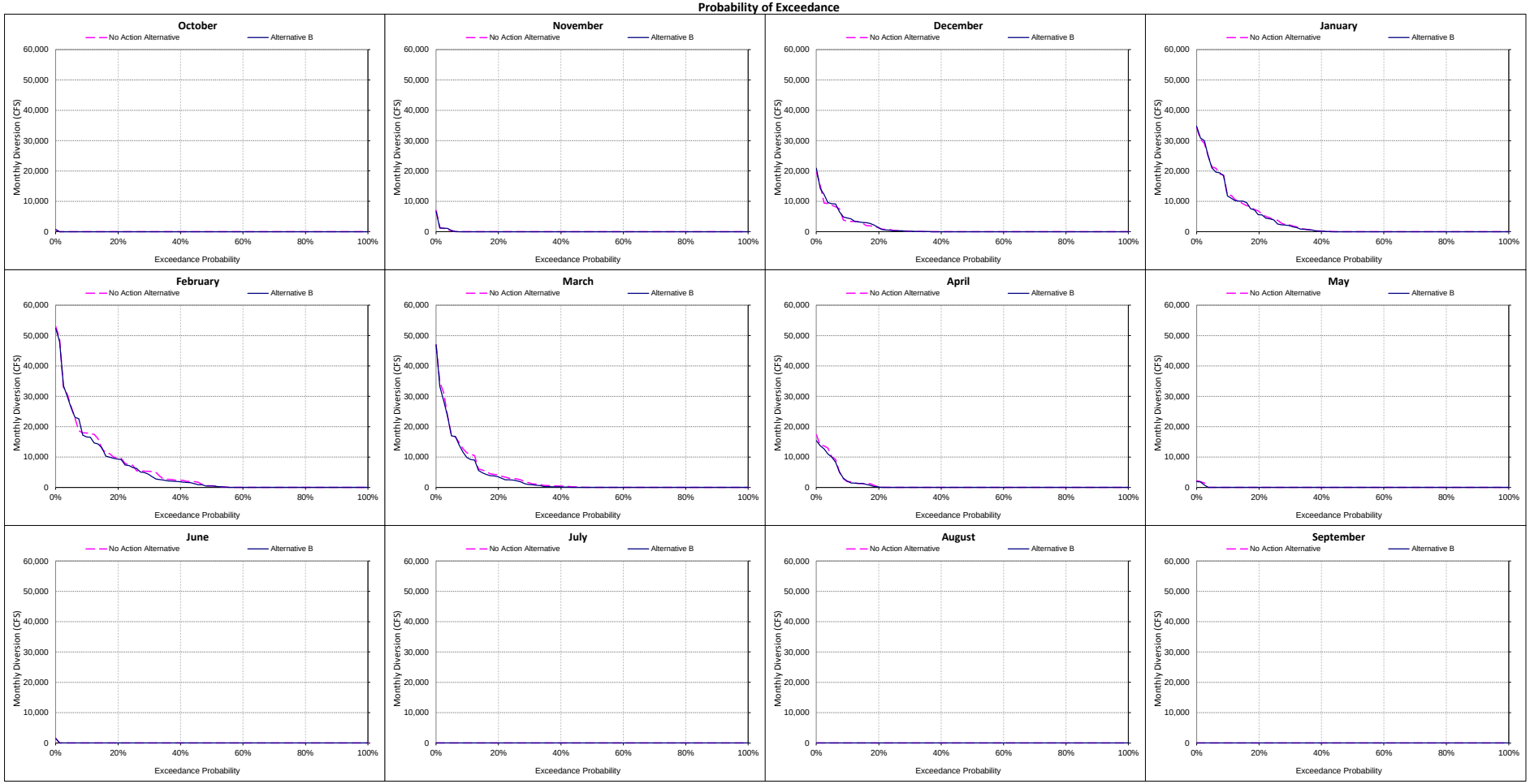


Table SW-51-5b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	559	768	209	37.4%	0.0%	7065	6633	-432	-6.1%	0.0%	19690	20915	1225	6.2%	0.0%	34396	34830	434	1.3%
1.2%	0	0	0		1.2%	1342	1188	-154	-11.5%	1.2%	15339	14219	-1119	-7.3%	1.2%	30467	30895	428	1.4%
2.5%	0	0	0		2.5%	1052	1164	112	10.6%	2.5%	9438	12230	2792	29.6%	2.5%	29120	30022	902	3.1%
3.7%	0	0	0		3.7%	585	1056	471	80.4%	3.7%	9260	9667	407	4.4%	3.7%	24936	24876	-60	-0.2%
4.9%	0	0	0		4.9%	318	345	26	8.3%	4.9%	8690	9226	536	6.2%	4.9%	21295	21019	-276	-1.3%
6.2%	0	0	0		6.2%	0	77	77		6.2%	8205	9107	902	11.0%	6.2%	20927	19619	-1307	-6.2%
7.4%	0	0	0		7.4%	0	0	0		7.4%	7529	6528	-1001	-13.3%	7.4%	19015	19402	387	2.0%
8.6%	0	0	0		8.6%	0	0	0		8.6%	3842	4817	974	25.4%	8.6%	18640	18486	-155	-0.8%
9.9%	0	0	0		9.9%	0	0	0		9.9%	3410	4511	1101	32.3%	9.9%	11980	11751	-229	-1.9%
11.1%	0	0	0		11.1%	0	0	0		11.1%	3381	4242	861	25.5%	11.1%	11956	10964	-993	-8.3%
12.3%	0	0	0		12.3%	0	0	0		12.3%	3364	3392	29	0.8%	12.3%	10544	10245	-300	-2.8%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	3209	-53	-1.6%	13.6%	10025	10055	31	0.3%
14.8%	0	0	0		14.8%	0	0	0		14.8%	2761	3028	267	9.7%	14.8%	9226	10037	810	8.8%
16.0%	0	0	0		16.0%	0	0	0		16.0%	1997	2925	928	46.4%	16.0%	8577	9567	991	11.5%
17.3%	0	0	0		17.3%	0	0	0		17.3%	1931	2692	761	39.4%	17.3%	8270	7586	-684	-8.3%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1632	2157	525	32.1%	18.5%	7295	7180	-115	-1.6%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1364	1377	12	0.9%	19.8%	6835	5622	-1214	-17.8%
21.0%	0	0	0		21.0%	0	0	0		21.0%	840	755	-86	-10.2%	21.0%	5815	5490	-325	-5.6%
22.2%	0	0	0		22.2%	0	0	0		22.2%	727	520	-206	-28.4%	22.2%	4988	4439	-549	-11.0%
23.5%	0	0	0		23.5%	0	0	0		23.5%	722	478	-244	-33.8%	23.5%	4592	4247	-346	-7.5%
24.7%	0	0	0		24.7%	0	0	0		24.7%	444	335	-108	-24.4%	24.7%	3793	3865	72	1.9%
25.9%	0	0	0		25.9%	0	0	0		25.9%	338	326	-12	-3.6%	25.9%	3788	2490	-1298	-34.3%
27.2%	0	0	0		27.2%	0	0	0		27.2%	270	261	-9	-3.3%	27.2%	2797	2286	-511	-18.3%
28.4%	0	0	0		28.4%	0	0	0		28.4%	167	243	76	45.8%	28.4%	2342	2146	-196	-8.4%
29.6%	0	0	0		29.6%	0	0	0		29.6%	136	165	29	21.2%	29.6%	2254	1973	-281	-12.5%
30.9%	0	0	0		30.9%	0	0	0		30.9%	96	114	18	18.9%	30.9%	1865	1586	-278	-14.9%
32.1%	0	0	0		32.1%	0	0	0		32.1%	79	74	-5	-6.9%	32.1%	1582	1351	-232	-14.6%
33.3%	0	0	0		33.3%	0	0	0		33.3%	72	49	-22	-30.9%	33.3%	1034	796	-238	-23.0%
34.6%	0	0	0		34.6%	0	0	0		34.6%	7	14	6		34.6%	821	773	-48	-5.9%
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	7	7		35.8%	691	614	-77	-11.1%
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	493	574	81	16.5%
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	283	198	-85	-30.0%
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	244	141	-103	-42.1%
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	122	126	3	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	97	35	-62	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	75	0	-75	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	10	0	-10	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-5b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	53046	52404	-641	-1.2%	0.0%	46969	46966	-2	0.0%	0.0%	17385	15410	-1975	-11.4%	0.0%	2239	1859	-380	-17.0%
1.2%	49189	48022	-1166	-2.4%	1.2%	34582	33273	-1310	-3.8%	1.2%	13969	13675	-293	-2.1%	1.2%	1860	1783	-77	-4.2%
2.5%	33038	33472	434	1.3%	2.5%	31132	28523	-2609	-8.4%	2.5%	13675	12688	-987	-7.2%	2.5%	1459	806	-653	-44.7%
3.7%	30755	30168	-586	-1.9%	3.7%	23411	23341	-70	-0.3%	3.7%	12966	11009	-1956	-15.1%	3.7%	0	0	0	
4.9%	26703	26287	-416	-1.6%	4.9%	17043	16994	-49	-0.3%	4.9%	10049	10055	6	0.1%	4.9%	0	0	0	
6.2%	22915	23094	178	0.8%	6.2%	16703	16788	85	0.5%	6.2%	9208	8349	-859	-9.3%	6.2%	0	0	0	
7.4%	18664	22591	3927	21.0%	7.4%	14755	13859	-896	-6.1%	7.4%	5026	5025	-1	0.0%	7.4%	0	0	0	
8.6%	17950	17226	-724	-4.0%	8.6%	12737	11669	-1068	-8.4%	8.6%	2869	2987	118	4.1%	8.6%	0	0	0	
9.9%	17925	16632	-1292	-7.2%	9.9%	11398	9854	-1544	-13.5%	9.9%	1890	2038	148	7.8%	9.9%	0	0	0	
11.1%	17625	16529	-1096	-6.2%	11.1%	10899	9189	-1710	-15.7%	11.1%	1857	1432	-425	-22.9%	11.1%	0	0	0	
12.3%	17461	14677	-2784	-15.9%	12.3%	10493	8984	-1509	-14.4%	12.3%	1459	1343	-115	-7.9%	12.3%	0	0	0	
13.6%	15972	14328	-1644	-10.3%	13.6%	6055	5538	-517	-8.5%	13.6%	1283	1259	-24	-1.9%	13.6%	0	0	0	
14.8%	12659	13058	399	3.1%	14.8%	5729	4761	-968	-16.9%	14.8%	1259	1248	-11	-0.8%	14.8%	0	0	0	
16.0%	11444	10319	-1125	-9.8%	16.0%	5270	4281	-989	-18.8%	16.0%	1251	951	-300	-24.0%	16.0%	0	0	0	
17.3%	11105	9969	-1137	-10.2%	17.3%	4505	3836	-669	-14.8%	17.3%	1206	712	-494	-41.0%	17.3%	0	0	0	
18.5%	9984	9574	-409	-4.1%	18.5%	4280	3797	-483	-11.3%	18.5%	659	230	-429	-65.1%	18.5%	0	0	0	
19.8%	9724	9370	-354	-3.6%	19.8%	4180	3500	-680	-16.3%	19.8%	213	167	-46	-21.6%	19.8%	0	0	0	
21.0%	9497	9153	-344	-3.6%	21.0%	3669	3037	-632	-17.2%	21.0%	48	0	-48		21.0%	0	0	0	
22.2%	7924	7403	-521	-6.6%	22.2%	3346	2473	-873	-26.1%	22.2%	10	0	-10		22.2%	0	0	0	
23.5%	7401	7219	-181	-2.4%	23.5%	3001	2454	-547	-18.2%	23.5%	0	0	0		23.5%	0	0	0	
24.7%	7267	6480	-787	-10.8%	24.7%	2925	2416	-508	-17.4%	24.7%	0	0	0		24.7%	0	0	0	
25.9%	5435	6245	810	14.9%	25.9%	2758	2121	-637	-23.1%	25.9%	0	0	0		25.9%	0	0	0	
27.2%	5428	5016	-413	-7.6%	27.2%	2475	1777	-698	-28.2%	27.2%	0	0	0		27.2%	0	0	0	
28.4%	5342	4888	-454	-8.5%	28.4%	1861	1243	-618	-33.2%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	5275	4375	-901	-17.1%	29.6%	1574	917	-656	-41.7%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	5208	3521	-1687	-32.4%	30.9%	1139	852	-287	-25.2%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	4943	2776	-2168	-43.9%	32.1%	1074	684	-390	-36.3%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3667	2605	-1061	-28.9%	33.3%	917	611	-306	-33.4%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	2783	2444	-339	-12.2%	34.6%	654	305	-348	-53.3%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	2667	2115	-552	-20.7%	35.8%	590	267	-323	-54.8%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2603	2023	-580	-22.3%	37.0%	571	216	-356	-62.2%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2391	1997	-394	-16.5%	38.3%	477	165	-312	-65.5%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2311	1851	-460	-19.9%	39.5%	421	157	-265	-62.8%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2307	1682	-625	-27.1%	40.7%	400	126	-274	-68.4%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	1990	1638	-352	-17.7%	42.0%	369	66	-303	-82.2%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	1940	1541	-398	-20.5%	43.2%	202	0	-202	-100.0%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1906	1232	-674	-35.4%	44.4%	196	0	-196	-100.0%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1681	838	-843	-50.1%	45.7%	48	0	-48		45.7%	0	0	0		45.7%	0	0	0	
46.9%	983	834	-149	-15.1%	46.9%	39	0	-39		46.9%	0	0	0		46.9%	0	0	0	
48.1%	553	465	-88	-15.9%	48.1%	1	0	-1		48.1%	0	0	0		48.1%	0	0	0	
49.4%	534	426	-108	-20.2%	49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	498	398	-100	-20.1%	50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	290	281	-9	-3.2%	51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	160	144	-16		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	145	108	-37		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-5b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	1574	1500	-74	-4.7%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

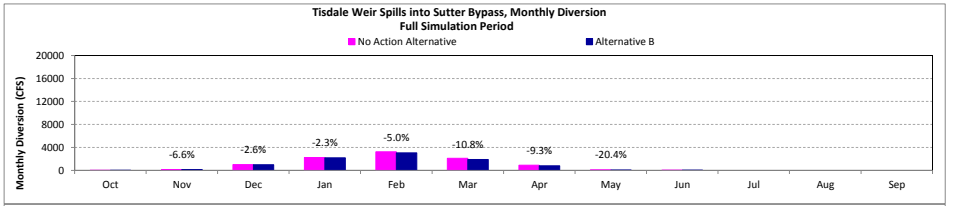
Table SW-52-5a
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

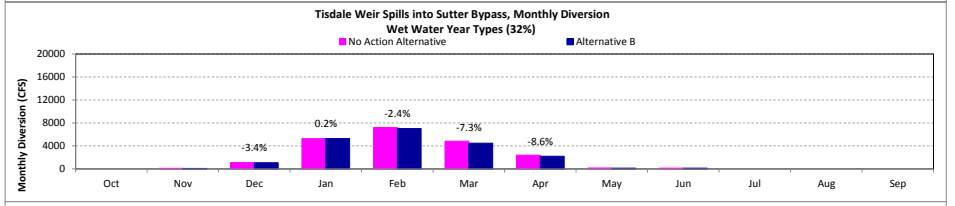
Analysis Period	Monthly Diversion (CFS) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	8	147	1010	2248	3231	2125	897	89	45	0	0	0
Alternative B	11	138	984	2195	3068	1896	814	71	44	0	0	0
Difference	3	-10	-27	-52	-163	-228	-83	-18	-1	0	0	0
Percent Difference[3]		-6.6%	-2.6%	-2.3%	-5.0%	-10.8%	-9.3%	-20.4%				
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	98	1109	5277	7193	4834	2396	169	143	0	0	0
Alternative B	0	95	1071	5285	7019	4481	2190	144	140	0	0	0
Difference	0	-3	-38	8	-174	-353	-206	-26	-3	0	0	0
Percent Difference			-3.4%	0.2%	-2.4%	-7.3%	-8.6%					
Above Normal (15%)												
No Action Alternative	0	511	1096	2726	3647	3200	767	241	0	0	0	0
Alternative B	2	464	987	2514	3370	2818	689	172	0	0	0	0
Difference	2	-47	-109	-212	-278	-382	-78	-69	0	0	0	0
Percent Difference		-9.2%	-9.9%	-7.8%	-7.6%	-11.9%	-10.2%	-28.5%				
Below Normal (17%)												
No Action Alternative	49	101	1231	613	1293	265	147	0	0	0	0	0
Alternative B	64	103	1281	586	1081	118	107	0	0	0	0	0
Difference	15	2	50	-27	-212	-146	-40	0	0	0	0	0
Percent Difference	30.8%	2.0%	4.1%	-4.4%	-16.4%	-55.3%	-27.0%					
Dry (22%)												
No Action Alternative	0	110	1255	278	823	356	0	0	0	0	0	0
Alternative B	0	100	1226	202	688	195	0	0	0	0	0	0
Difference	0	-10	-29	-77	-135	-160	0	0	0	0	0	0
Percent Difference		-8.7%	-2.3%	-27.5%	-16.4%	-45.1%						
Critical (15%)												
No Action Alternative	0	0	86	67	101	3	0	0	0	0	0	0
Alternative B	0	0	81	49	92	0	0	0	0	0	0	0
Difference	0	0	-5	-17	-9	-3	0	0	0	0	0	0
Percent Difference			-6.3%	-25.9%	-8.5%	-100.0%						

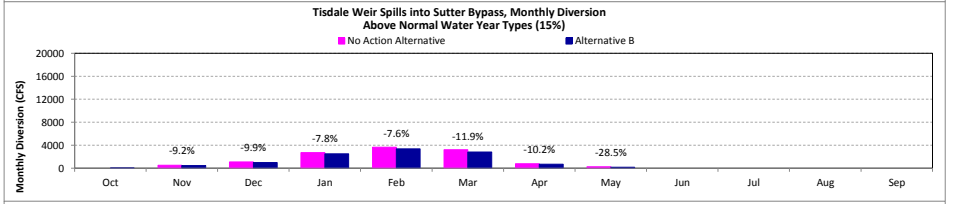
1 Based on the 82-year simulation period

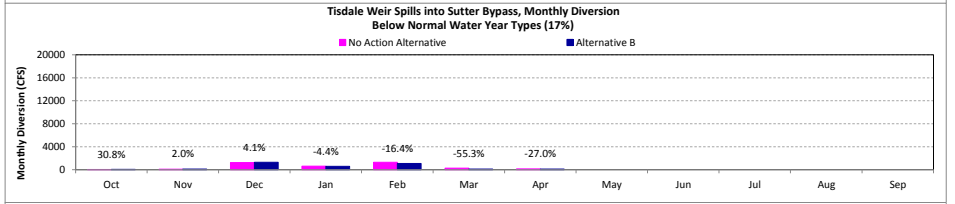
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

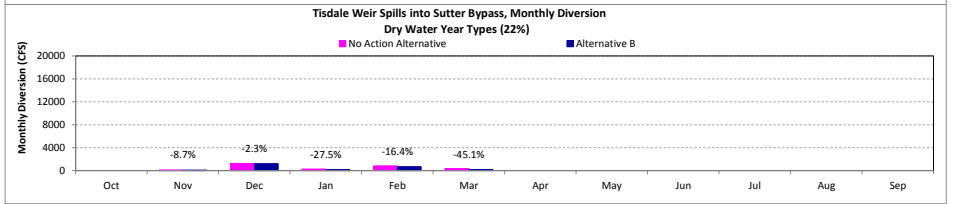
3 Relative difference of the monthly average











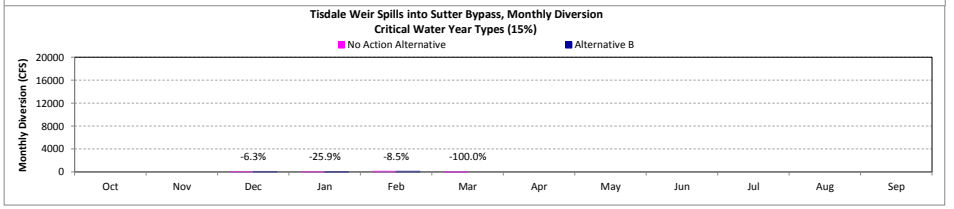


Figure SW-52-5b
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

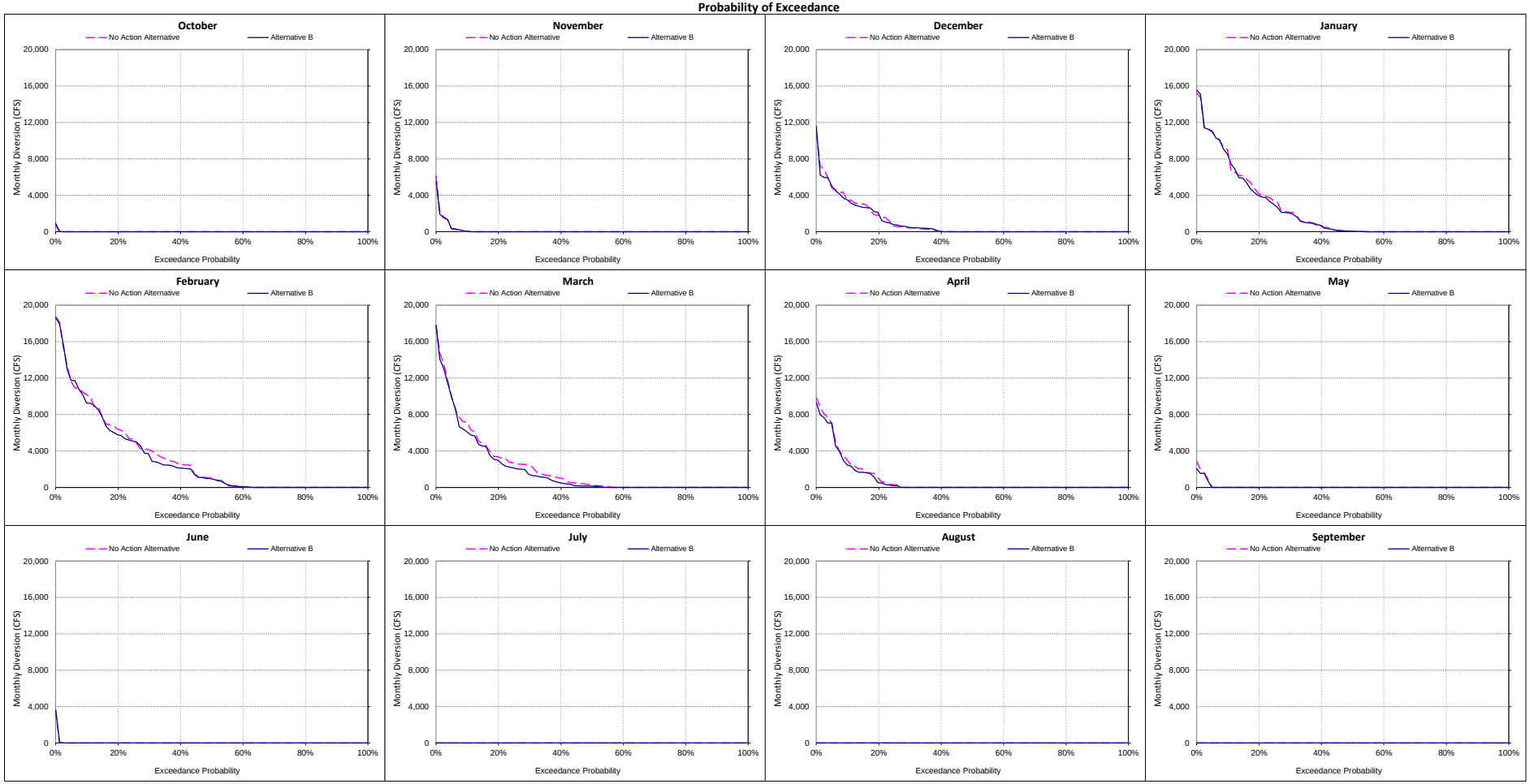


Table SW-52-5b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

	October				November				December				January			
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	685	896	211	30.8%	0.0%	6110	5523	-587	-9.6%	0.0%	10781	11563	782	7.3%	0.0%	15256	15554	298	2.0%
1.2%	0	21	21		1.2%	2168	1920	-248	-11.4%	1.2%	7215	6200	-1015	-14.1%	1.2%	14749	15106	357	2.4%
2.5%	0	0	0		2.5%	1645	1536	-109	-6.6%	2.5%	6852	5963	-888	-13.0%	2.5%	11425	11391	-34	-0.3%
3.7%	0	0	0		3.7%	1333	1340	7	0.5%	3.7%	5913	5961	48	0.8%	3.7%	11244	11250	6	0.1%
4.9%	0	0	0		4.9%	334	332	-1	-0.4%	4.9%	4807	5036	230	4.8%	4.9%	10953	11092	139	1.3%
6.2%	0	0	0		6.2%	314	270	-44	-14.1%	6.2%	4589	4509	-80	-1.7%	6.2%	10456	10328	-128	-1.2%
7.4%	0	0	0		7.4%	77	208	132	172.1%	7.4%	4335	4116	-219	-5.0%	7.4%	10022	10067	45	0.4%
8.6%	0	0	0		8.6%	32	104	72	225.7%	8.6%	4324	3687	-637	-14.7%	8.6%	9259	9055	-204	-2.2%
9.9%	0	0	0		9.9%	29	41	12	41.4%	9.9%	3467	3510	43	1.2%	9.9%	9014	8486	-527	-5.9%
11.1%	0	0	0		11.1%	15	0	-15	-100.0%	11.1%	3452	3141	-311	-9.0%	11.1%	6571	7405	834	12.7%
12.3%	0	0	0		12.3%	6	0	-6		12.3%	3136	2918	-218	-6.9%	12.3%	6512	6838	327	5.0%
13.6%	0	0	0		13.6%	4	0	-4		13.6%	3069	2825	-244	-8.0%	13.6%	6193	5932	-260	-4.2%
14.8%	0	0	0		14.8%	0	0	0		14.8%	3047	2659	-388	-12.7%	14.8%	6139	5895	-245	-4.0%
16.0%	0	0	0		16.0%	0	0	0		16.0%	2933	2643	-290	-9.9%	16.0%	5743	5350	-394	-6.9%
17.3%	0	0	0		17.3%	0	0	0		17.3%	2353	2616	263	11.2%	17.3%	5398	4659	-738	-13.7%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1860	2205	345	18.5%	18.5%	4727	4302	-425	-9.0%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1805	2138	333	18.4%	19.8%	4232	3981	-251	-5.9%
21.0%	0	0	0		21.0%	0	0	0		21.0%	1607	1216	-392	-24.4%	21.0%	3952	3817	-135	-3.4%
22.2%	0	0	0		22.2%	0	0	0		22.2%	1526	1052	-474	-31.0%	22.2%	3881	3738	-143	-3.7%
23.5%	0	0	0		23.5%	0	0	0		23.5%	1138	970	-168	-14.8%	23.5%	3723	3288	-434	-11.7%
24.7%	0	0	0		24.7%	0	0	0		24.7%	628	776	148	23.5%	24.7%	3397	3006	-391	-11.5%
25.9%	0	0	0		25.9%	0	0	0		25.9%	537	719	182	33.9%	25.9%	3236	2637	-598	-18.5%
27.2%	0	0	0		27.2%	0	0	0		27.2%	534	627	92	17.3%	27.2%	2265	2127	-139	-6.1%
28.4%	0	0	0		28.4%	0	0	0		28.4%	501	598	97	19.4%	28.4%	2209	2092	-117	-5.3%
29.6%	0	0	0		29.6%	0	0	0		29.6%	411	484	73	17.8%	29.6%	2125	2068	-57	-2.7%
30.9%	0	0	0		30.9%	0	0	0		30.9%	404	454	50	12.3%	30.9%	2108	1897	-211	-10.0%
32.1%	0	0	0		32.1%	0	0	0		32.1%	398	438	40	10.1%	32.1%	1700	1607	-93	-5.5%
33.3%	0	0	0		33.3%	0	0	0		33.3%	330	392	62	18.8%	33.3%	1161	1130	-30	-2.6%
34.6%	0	0	0		34.6%	0	0	0		34.6%	278	389	111	39.9%	34.6%	1085	1007	-79	-7.2%
35.8%	0	0	0		35.8%	0	0	0		35.8%	251	349	98	38.9%	35.8%	1066	956	-110	-10.3%
37.0%	0	0	0		37.0%	0	0	0		37.0%	210	317	106	50.4%	37.0%	977	932	-46	-4.7%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	186	98	111.8%	38.3%	836	751	-84	-10.1%
39.5%	0	0	0		39.5%	0	0	0		39.5%	50	28	-22		39.5%	824	727	-97	-11.8%
40.7%	0	0	0		40.7%	0	0	0		40.7%	16	0	-15		40.7%	482	414	-67	-14.0%
42.0%	0	0	0		42.0%	0	0	0		42.0%	13	0	-13		42.0%	451	333	-118	-26.1%
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	319	260	-59	-18.5%
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	174	148	-26	-15.1%
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	103	141	39	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	98	91	-7	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	96	53	-43	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	55	47	-8	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	42	30	-12	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	35	14	-20	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	12	4	-7	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	2	0	-2	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-5b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

Percent Exceedance Probability (%)	February				March				April				May			
	No Action Alternative	Alternative B	Absolute Difference (CFS)	Relative Difference (%)	No Action Alternative	Alternative B	Absolute Difference (CFS)	Relative Difference (%)	No Action Alternative	Alternative B	Absolute Difference (CFS)	Relative Difference (%)	No Action Alternative	Alternative B	Absolute Difference (CFS)	Relative Difference (%)
	Monthly Diversion (CFS)	Monthly Diversion (CFS)			Monthly Diversion (CFS)	Monthly Diversion (CFS)			Monthly Diversion (CFS)	Monthly Diversion (CFS)			Monthly Diversion (CFS)	Monthly Diversion (CFS)		
0.0%	18736	18624	-112	-0.6%	17777	17777	0	0.0%	9875	9310	-565	-5.7%	2892	2068	-825	-28.5%
1.2%	18159	17957	-202	-1.1%	14705	14093	-612	-4.2%	8796	7969	-827	-9.4%	1980	1555	-426	-21.5%
2.5%	15350	15597	247	1.6%	13585	13077	-508	-3.7%	8066	7657	-408	-5.1%	1550	1524	-25	-1.6%
3.7%	13328	12980	-348	-2.6%	11791	11458	-333	-2.8%	7657	7070	-587	-7.7%	873	659	-214	-24.5%
4.9%	11640	11753	113	1.0%	9970	9953	-17	-0.2%	7057	7061	4	0.1%	0	0	0	
6.2%	10925	11732	807	7.4%	8585	8617	32	0.4%	4953	4525	-429	-8.7%	0	0	0	
7.4%	10864	10786	-78	-0.7%	7690	6651	-1039	-13.5%	3949	3949	0	0.0%	0	0	0	
8.6%	10452	10197	-255	-2.4%	7209	6431	-778	-10.8%	3511	2982	-529	-15.1%	0	0	0	
9.9%	10203	9254	-949	-9.3%	7184	6115	-1069	-14.9%	3009	2465	-544	-18.1%	0	0	0	
11.1%	9890	9244	-646	-6.5%	6322	5765	-557	-8.8%	2471	2354	-117	-4.7%	0	0	0	
12.3%	8871	8999	127	1.4%	6110	5644	-466	-7.6%	2286	1892	-394	-17.2%	0	0	0	
13.6%	8858	8531	-326	-3.7%	5093	4735	-358	-7.0%	2059	1667	-391	-19.0%	0	0	0	
14.8%	7839	7782	-57	-0.7%	4819	4525	-294	-6.1%	2027	1643	-383	-18.9%	0	0	0	
16.0%	6949	6768	-181	-2.6%	4524	4487	-37	-0.8%	1642	1593	-49	-3.0%	0	0	0	
17.3%	6880	6239	-641	-9.3%	3954	3469	-485	-12.3%	1579	1502	-77	-4.9%	0	0	0	
18.5%	6738	6053	-685	-10.2%	3390	3075	-315	-9.3%	1525	1140	-386	-25.3%	0	0	0	
19.8%	6425	5804	-621	-9.7%	3359	2988	-371	-11.0%	1066	530	-537	-50.3%	0	0	0	
21.0%	6243	5670	-573	-9.2%	3225	2604	-621	-19.3%	595	502	-94	-15.7%	0	0	0	
22.2%	6027	5349	-678	-11.2%	3184	2339	-845	-26.5%	547	294	-253	-46.3%	0	0	0	
23.5%	5332	5193	-139	-2.6%	2752	2216	-535	-19.5%	310	260	-49	-15.9%	0	0	0	
24.7%	5325	5081	-243	-4.6%	2704	2150	-554	-20.5%	305	183	-121	-39.9%	0	0	0	
25.9%	4823	4983	160	3.3%	2562	2020	-542	-21.1%	274	171	-103	-37.5%	0	0	0	
27.2%	4221	4553	331	7.9%	2543	2007	-536	-21.1%	7	4	-2		0	0	0	
28.4%	4202	3769	-433	-10.3%	2531	1969	-561	-22.2%	0	0	0		0	0	0	
29.6%	4164	3722	-442	-10.6%	2375	1458	-917	-38.6%	0	0	0		0	0	0	
30.9%	3976	2859	-1118	-28.1%	2249	1273	-976	-43.4%	0	0	0		0	0	0	
32.1%	3709	2802	-906	-24.4%	1701	1256	-446	-26.2%	0	0	0		0	0	0	
33.3%	3409	2658	-751	-22.0%	1567	1144	-424	-27.0%	0	0	0		0	0	0	
34.6%	3214	2444	-769	-23.9%	1365	1121	-244	-17.9%	0	0	0		0	0	0	
35.8%	3121	2443	-679	-21.7%	1304	1026	-278	-21.3%	0	0	0		0	0	0	
37.0%	2867	2413	-454	-15.8%	1266	761	-505	-39.9%	0	0	0		0	0	0	
38.3%	2787	2230	-557	-20.0%	1110	638	-472	-42.5%	0	0	0		0	0	0	
39.5%	2531	2124	-407	-16.1%	1051	508	-543	-51.7%	0	0	0		0	0	0	
40.7%	2503	2117	-386	-15.4%	935	439	-496	-53.0%	0	0	0		0	0	0	
42.0%	2452	2042	-410	-16.7%	598	387	-211	-35.3%	0	0	0		0	0	0	
43.2%	2444	2028	-416	-17.0%	508	307	-201	-39.6%	0	0	0		0	0	0	
44.4%	1429	1415	-14	-1.0%	504	183	-321	-63.7%	0	0	0		0	0	0	
45.7%	1202	1089	-113	-9.4%	416	183	-233	-56.0%	0	0	0		0	0	0	
46.9%	1153	1084	-70	-6.1%	406	152	-254	-62.6%	0	0	0		0	0	0	
48.1%	1064	963	-101	-9.5%	333	147	-186	-55.8%	0	0	0		0	0	0	
49.4%	1053	961	-92	-8.7%	302	142	-160	-53.0%	0	0	0		0	0	0	
50.6%	866	880	13	1.6%	217	105	-112	-51.7%	0	0	0		0	0	0	
51.9%	776	750	-26	-3.4%	171	80	-91	-53.4%	0	0	0		0	0	0	
53.1%	754	646	-108	-14.3%	156	18	-138	-88.3%	0	0	0		0	0	0	
54.3%	382	401	19	4.9%	95	0	-95		0	0	0		0	0	0	
55.6%	274	176	-98	-35.8%	33	0	-33		0	0	0		0	0	0	
56.8%	149	149	0		0	0	0		0	0	0		0	0	0	
58.0%	137	131	-6		0	0	0		0	0	0		0	0	0	
59.3%	131	59	-72		0	0	0		0	0	0		0	0	0	
60.5%	53	48	-5		0	0	0		0	0	0		0	0	0	
61.7%	31	36	5		0	0	0		0	0	0		0	0	0	
63.0%	21	8	-13		0	0	0		0	0	0		0	0	0	
64.2%	1	0	-1		0	0	0		0	0	0		0	0	0	
65.4%	0	0	0		0	0	0		0	0	0		0	0	0	
66.7%	0	0	0		0	0	0		0	0	0		0	0	0	
67.9%	0	0	0		0	0	0		0	0	0		0	0	0	
69.1%	0	0	0		0	0	0		0	0	0		0	0	0	
70.4%	0	0	0		0	0	0		0	0	0		0	0	0	
71.6%	0	0	0		0	0	0		0	0	0		0	0	0	
72.8%	0	0	0		0	0	0		0	0	0		0	0	0	
74.1%	0	0	0		0	0	0		0	0	0		0	0	0	
75.3%	0	0	0		0	0	0		0	0	0		0	0	0	
76.5%	0	0	0		0	0	0		0	0	0		0	0	0	
77.8%	0	0	0		0	0	0		0	0	0		0	0	0	
79.0%	0	0	0		0	0	0		0	0	0		0	0	0	
80.2%	0	0	0		0	0	0		0	0	0		0	0	0	
81.5%	0	0	0		0	0	0		0	0	0		0	0	0	
82.7%	0	0	0		0	0	0		0	0	0		0	0	0	
84.0%	0	0	0		0	0	0		0	0	0		0	0	0	
85.2%	0	0	0		0	0	0		0	0	0		0	0	0	
86.4%	0	0	0		0	0	0		0	0	0		0	0	0	
87.7%	0	0	0		0	0	0		0	0	0		0	0	0	
88.9%	0	0	0		0	0	0		0	0	0		0	0	0	
90.1%	0	0	0		0	0	0		0	0	0		0	0	0	
91.4%	0	0	0		0	0	0		0	0	0		0	0	0	
92.6%	0	0	0		0	0	0		0	0	0		0	0	0	
93.8%	0	0	0		0	0	0		0	0	0		0	0	0	
95.1%	0	0	0		0	0	0		0	0	0		0	0	0	
96.3%	0	0	0		0	0	0		0	0	0		0	0	0	
97.5%	0	0	0		0	0	0		0	0	0		0	0	0	
98.8%	0	0	0		0	0	0		0	0	0		0	0	0	
100.0%	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	

Table SW-52-5b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative B Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	3625	3591	-34	-0.9%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	97	48	-49	-50.5%	1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Alternative C Compared to No Action Alternative

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Table SW-49-7a
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						Monthly Diversion (CFS)						
						Long-term						
Full Simulation Period[1]												
No Action Alternative	0	0	63	257	431	189	14	0	0	0	0	0
Alternative C	0	0	63	233	410	178	13	0	0	0	0	0
Difference	0	0	0	-24	-21	-11	-1	0	0	0	0	0
Percent Difference[3]			0.3%	-9.4%	-4.8%	-5.8%	-4.7%					
						Water Year Types[2]						
Wet (32%)												
No Action Alternative	0	0	29	779	1213	554	34	0	0	0	0	0
Alternative C	0	0	36	721	1171	529	34	0	0	0	0	0
Difference	0	0	7	-57	-43	-25	0	0	0	0	0	0
Percent Difference			22.6%	-7.4%	-3.5%	-4.5%	-0.1%					
Above Normal (15%)												
No Action Alternative	0	0	1	68	316	88	19	0	0	0	0	0
Alternative C	0	0	13	28	268	67	14	0	0	0	0	0
Difference	0	0	13	-41	-47	-21	-4	0	0	0	0	0
Percent Difference				-59.3%	-15.0%	-23.9%	-23.1%					
Below Normal (17%)												
No Action Alternative	0	0	123	0	0	0	0	0	0	0	0	0
Alternative C	0	0	89	0	0	0	0	0	0	0	0	0
Difference	0	0	-34	0	0	0	0	0	0	0	0	0
Percent Difference			-27.6%									
Dry (22%)												
No Action Alternative	0	0	147	0	0	0	0	0	0	0	0	0
Alternative C	0	0	156	0	0	0	0	0	0	0	0	0
Difference	0	0	9	0	0	0	0	0	0	0	0	0
Percent Difference			6.3%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative C	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

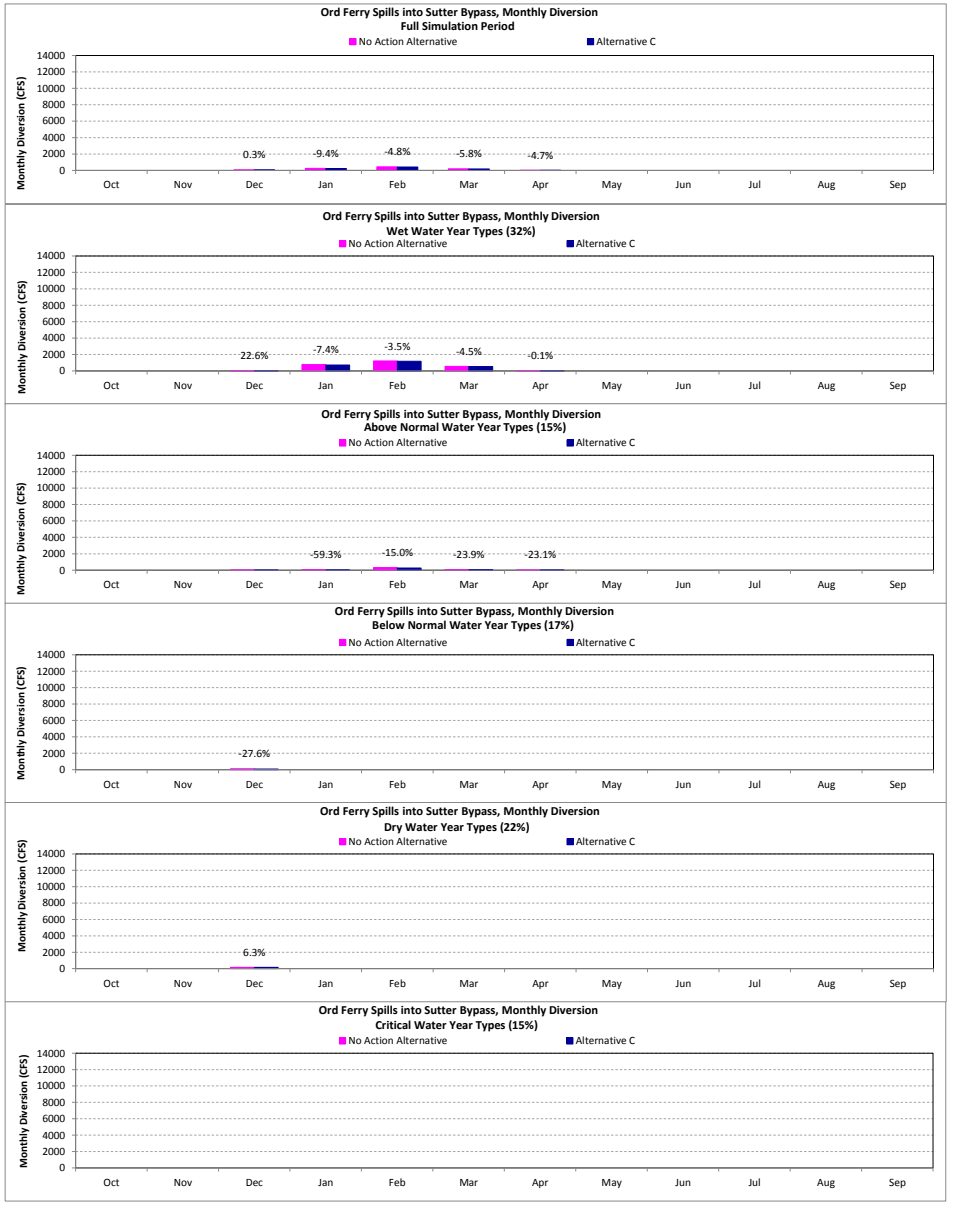


Figure SW-49-7b
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

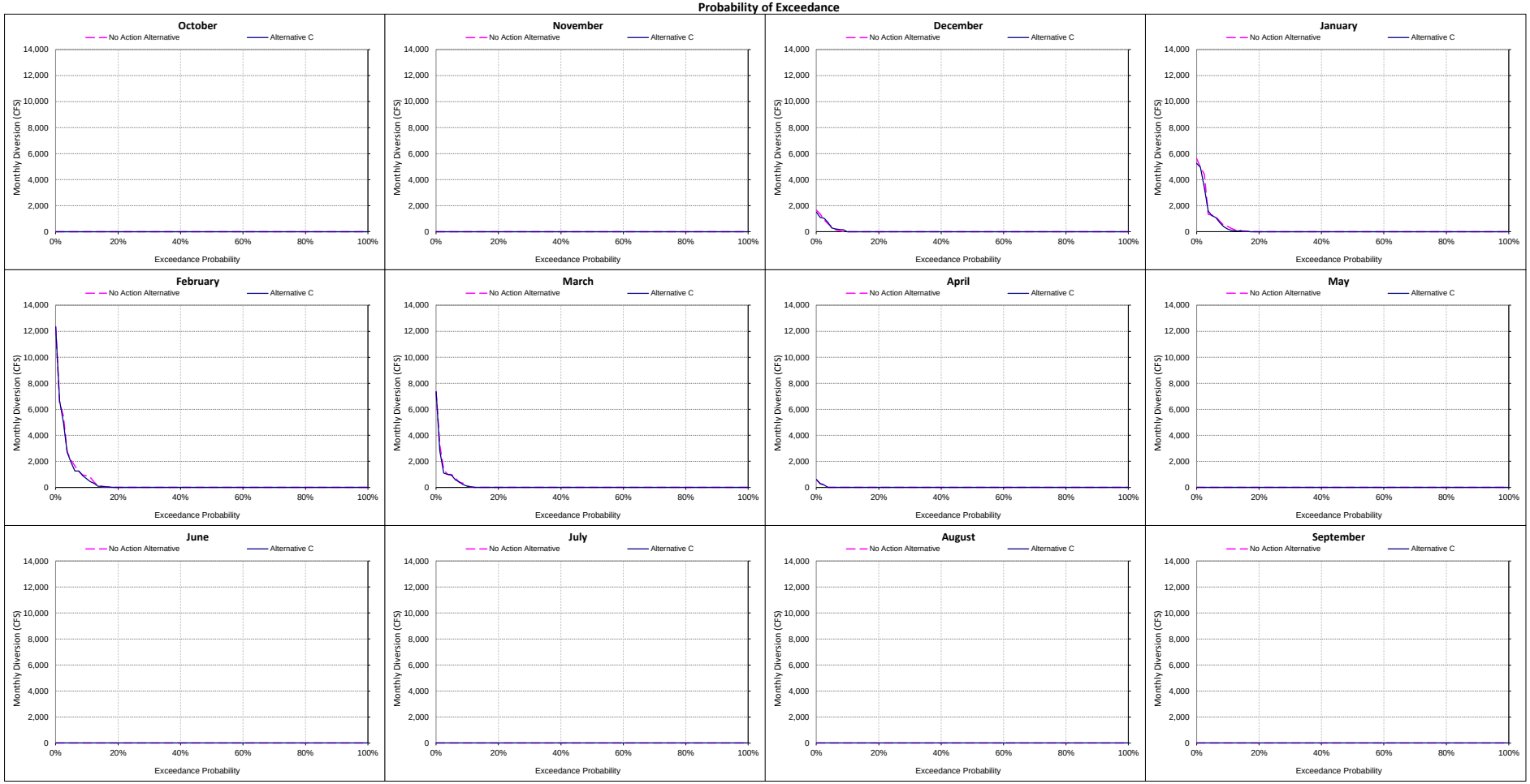


Table SW-49-7b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1504	-155	-9.4%	0.0%	5633	5255	-379	-6.7%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1081	-283	-20.8%	1.2%	4956	4949	-7	-0.1%
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	1025	118	13.0%	2.5%	4426	3392	-1034	-23.4%
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	722	106	17.1%	3.7%	1331	1595	264	19.8%
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	287	-91	-24.0%	4.9%	1271	1221	-49	-3.9%
6.2%	0	0	0		6.2%	0	0	0		6.2%	150	218	68	45.3%	6.2%	1147	1080	-67	-5.8%
7.4%	0	0	0		7.4%	0	0	0		7.4%	70	171	101	144.7%	7.4%	807	704	-103	-12.8%
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	160	153		8.6%	492	399	-93	-18.8%
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	408	205	-203	-49.8%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	255	84	-171	-67.1%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	135	71	-64	-47.3%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	131	57	-74	-56.3%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	29	44	15	51.5%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	25	30	5	19.2%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	21	0	-21	-100.0%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-7b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	12366	12342	-24	-0.2%	0.0%	7360	7359	-1	0.0%	0.0%	608	608	0	0.0%	0.0%	0	0	0	
1.2%	6536	6676	140	2.1%	1.2%	3196	2801	-394	-12.3%	1.2%	285	284	0	-0.1%	1.2%	0	0	0	
2.5%	5493	4953	-541	-9.8%	2.5%	1350	1099	-251	-18.6%	2.5%	225	173	-52	-23.1%	2.5%	0	0	0	
3.7%	2709	2715	6	0.2%	3.7%	994	994	0	0.0%	3.7%	0	0	0		3.7%	0	0	0	
4.9%	2095	1922	-173	-8.3%	4.9%	987	946	-41	-4.2%	4.9%	0	0	0		4.9%	0	0	0	
6.2%	1642	1268	-374	-22.8%	6.2%	737	585	-152	-20.6%	6.2%	0	0	0		6.2%	0	0	0	
7.4%	1220	1266	47	3.8%	7.4%	383	425	41	10.8%	7.4%	0	0	0		7.4%	0	0	0	
8.6%	957	895	-62	-6.5%	8.6%	322	221	-101	-31.4%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	889	665	-224	-25.2%	9.9%	91	92	1	0.8%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	763	439	-324	-42.5%	11.1%	49	49	0	-0.1%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	391	293	-99	-25.2%	12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	120	77	-43	-36.1%	13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	63	75	12	19.4%	14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	50	36	-14	-27.4%	16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	41	31	-10	-25.2%	17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-7b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-7a
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	0	0	59	283	467	240	32	0	0	0	0	0
Alternative C	0	0	65	269	448	222	31	0	0	0	0	0
Difference	0	0	7	-14	-19	-18	-1	0	0	0	0	0
Percent Difference[3]			11.2%	-5.0%	-4.0%	-7.7%	-3.1%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	0	42	829	1367	690	83	0	0	0	0	0
Alternative C	0	0	49	804	1324	649	83	0	0	0	0	0
Difference	0	0	8	-25	-43	-41	0	0	0	0	0	0
Percent Difference			18.3%	-3.0%	-3.1%	-6.0%	0.1%					
Above Normal (15%)												
No Action Alternative	0	0	7	139	229	147	38	0	0	0	0	0
Alternative C	0	1	20	96	188	111	31	0	0	0	0	0
Difference	0	1	13	-44	-40	-37	-7	0	0	0	0	0
Percent Difference				-31.3%	-17.7%	-24.9%	-18.0%					
Below Normal (17%)												
No Action Alternative	0	0	94	1	0	0	0	0	0	0	0	0
Alternative C	0	0	87	3	4	0	0	0	0	0	0	0
Difference	0	0	-7	1	4	0	0	0	0	0	0	0
Percent Difference			-7.9%	106.9%								
Dry (22%)												
No Action Alternative	0	0	130	0	0	0	0	0	0	0	0	0
Alternative C	0	0	146	0	0	0	0	0	0	0	0	0
Difference	0	0	16	0	0	0	0	0	0	0	0	0
Percent Difference			12.3%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative C	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

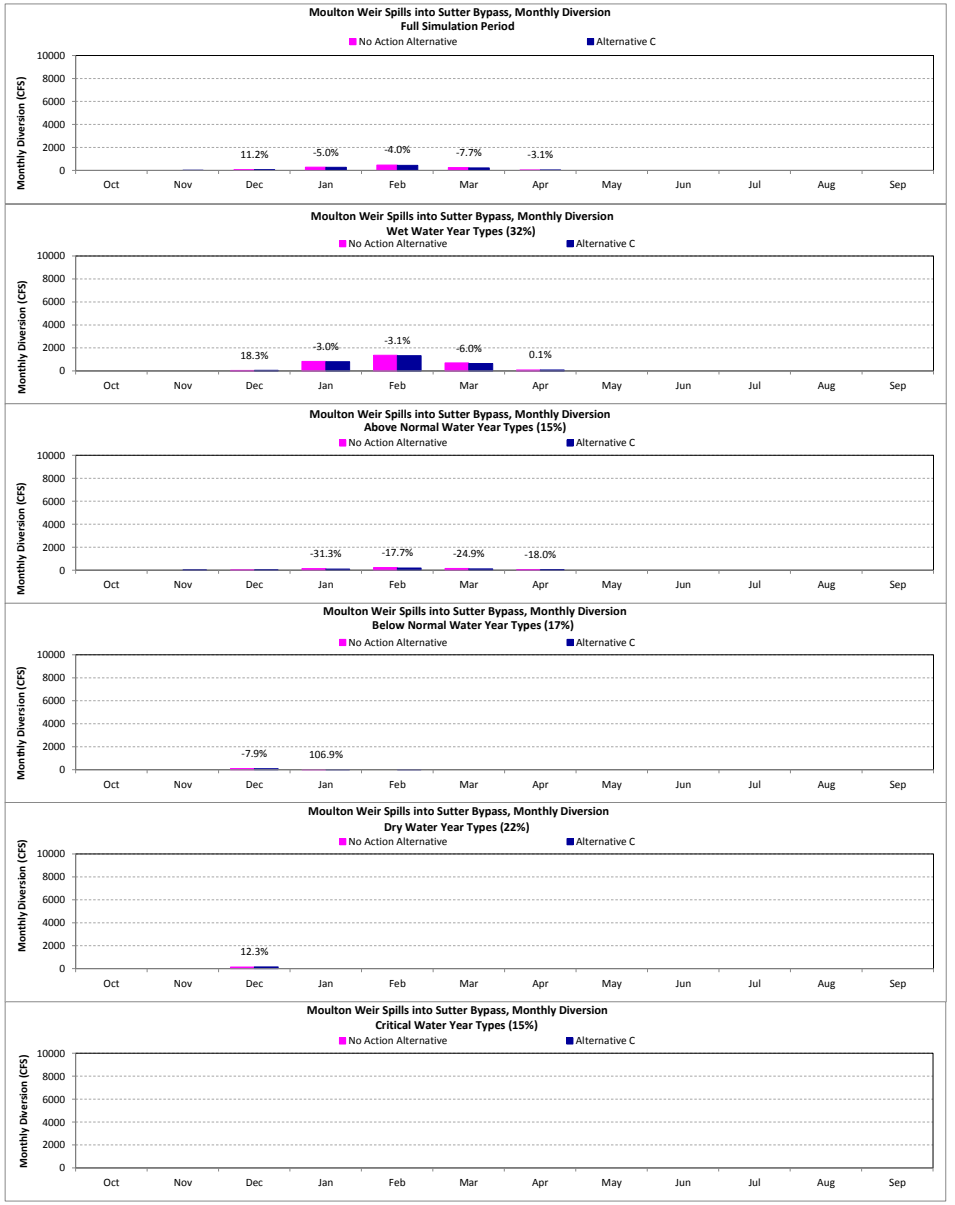


Figure SW-50-7b
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

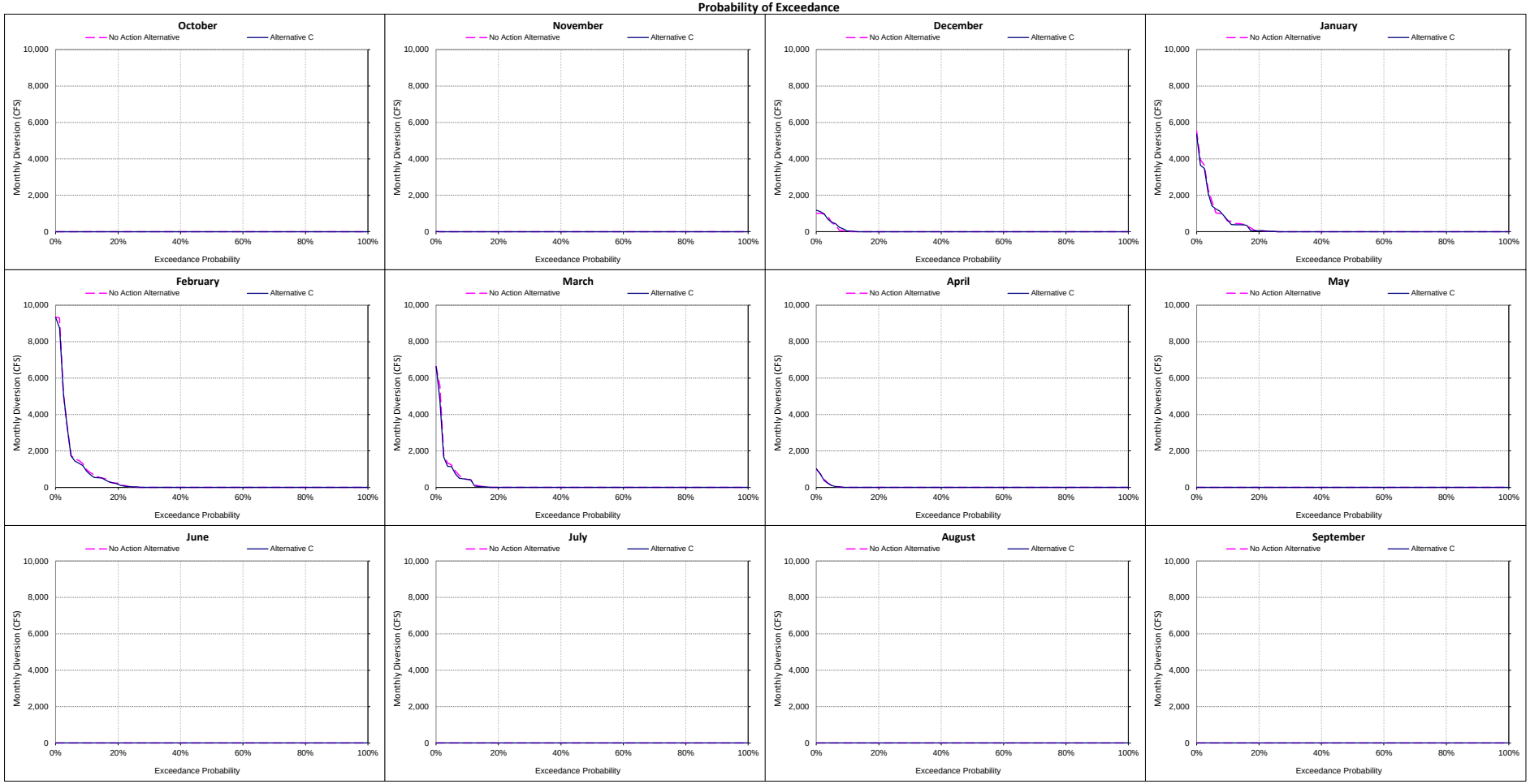


Table SW-50-7b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	8	8		0.0%	1010	1183	172	17.0%	0.0%	5535	5370	-165	-3.0%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1009	1101	92	9.1%	1.2%	3947	3652	-296	-7.5%
2.5%	0	0	0		2.5%	0	0	0		2.5%	969	974	5	0.5%	2.5%	3653	3469	-184	-5.0%
3.7%	0	0	0		3.7%	0	0	0		3.7%	839	692	-146	-17.4%	3.7%	2312	2105	-207	-9.0%
4.9%	0	0	0		4.9%	0	0	0		4.9%	494	523	29	6.0%	4.9%	1658	1416	-241	-14.6%
6.2%	0	0	0		6.2%	0	0	0		6.2%	351	437	86	24.5%	6.2%	1025	1255	230	22.4%
7.4%	0	0	0		7.4%	0	0	0		7.4%	74	231	157	211.4%	7.4%	1003	1130	127	12.6%
8.6%	0	0	0		8.6%	0	0	0		8.6%	53	144	92	175.1%	8.6%	890	899	9	1.0%
9.9%	0	0	0		9.9%	0	0	0		9.9%	28	37	9	33.1%	9.9%	594	632	38	6.5%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	36	36		11.1%	571	389	-182	-31.9%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	10	10		12.3%	446	381	-65	-14.6%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	444	376	-67	-15.1%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	414	374	-40	-9.7%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	309	348	39	12.5%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	213	66	-147	-69.1%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	77	48	-29	-37.6%
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	53	47	-6	-11.6%
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	47	45	-1	-2.8%
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	26	38	11	42.5%
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	18	28	10	54.7%
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	10	21	11	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-7b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	9355	9327	-28	-0.3%	0.0%	6639	6639	0	0.0%	0.0%	1015	1016	0	0.0%	0.0%	0	0	0	
1.2%	9304	8747	-558	-6.0%	1.2%	5565	4847	-718	-12.9%	1.2%	737	738	1	0.1%	1.2%	0	0	0	
2.5%	5144	5123	-21	-0.4%	2.5%	1750	1676	-73	-4.2%	2.5%	459	376	-83	-18.0%	2.5%	0	0	0	
3.7%	3323	3346	23	0.7%	3.7%	1332	1160	-172	-12.9%	3.7%	227	229	2	0.8%	3.7%	0	0	0	
4.9%	1751	1733	-19	-1.1%	4.9%	1238	1140	-98	-7.9%	4.9%	96	96	0	-0.2%	4.9%	0	0	0	
6.2%	1559	1437	-123	-7.9%	6.2%	899	738	-161	-17.9%	6.2%	40	40	0	-0.1%	6.2%	0	0	0	
7.4%	1482	1322	-161	-10.8%	7.4%	664	495	-169	-25.4%	7.4%	36	36	0	0.0%	7.4%	0	0	0	
8.6%	1317	1200	-117	-8.9%	8.6%	469	469	0	0.0%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	976	880	-96	-9.8%	9.9%	443	444	1	0.2%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	806	702	-104	-12.9%	11.1%	412	411	-1	-0.3%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	682	541	-141	-20.6%	12.3%	124	71	-53	-42.8%	12.3%	0	0	0		12.3%	0	0	0	
13.6%	574	531	-44	-7.6%	13.6%	87	40	-47	-53.9%	13.6%	0	0	0		13.6%	0	0	0	
14.8%	510	516	5	1.0%	14.8%	47	29	-18	-38.0%	14.8%	0	0	0		14.8%	0	0	0	
16.0%	466	380	-86	-18.4%	16.0%	34	27	-8	-22.8%	16.0%	0	0	0		16.0%	0	0	0	
17.3%	290	289	-2	-0.5%	17.3%	1	8	7		17.3%	0	0	0		17.3%	0	0	0	
18.5%	239	238	-1	-0.3%	18.5%	1	1	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	236	193	-43	-18.1%	19.8%	0	1	1		19.8%	0	0	0		19.8%	0	0	0	
21.0%	118	96	-22	-18.8%	21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	101	60	-42	-41.1%	22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	38	46	8	20.5%	23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	14	28	13		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	23	23		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-7b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

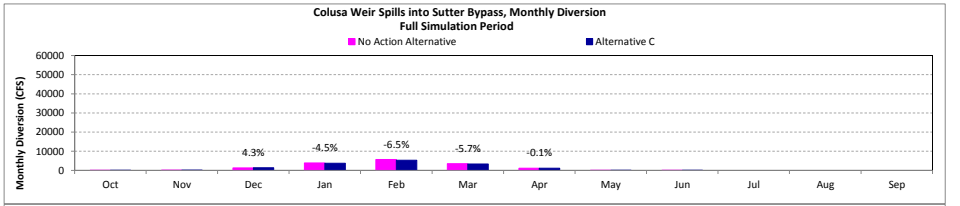
Table SW-51-7a
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

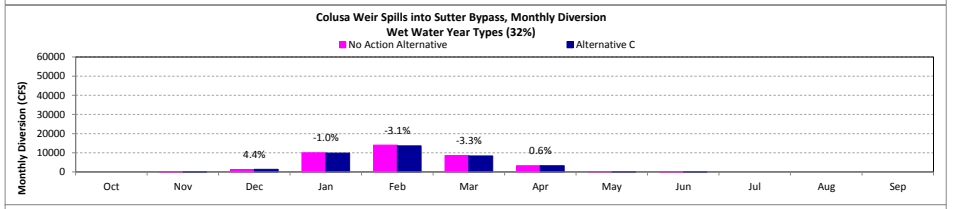
Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	7	126	1329	3917	5723	3523	1174	68	19	0	0	0
Alternative C	9	127	1387	3741	5349	3320	1173	59	17	0	0	0
Difference	2	1	58	-176	-374	-202	-1	-9	-2	0	0	0
Percent Difference[3]			4.3%	-4.5%	-6.5%	-5.7%	-0.1%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	35	1292	9956	14022	8607	3195	128	61	0	0	0
Alternative C	0	60	1348	9859	13585	8325	3215	102	55	0	0	0
Difference	0	25	57	-97	-437	-281	20	-26	-5	0	0	0
Percent Difference			4.4%	-1.0%	-3.1%	-3.3%	0.6%					
Above Normal (15%)												
No Action Alternative	0	589	1240	3961	5888	4959	997	187	0	0	0	0
Alternative C	0	553	1180	3231	5145	4462	972	184	0	0	0	0
Difference	0	-36	-60	-729	-743	-497	-25	-2	0	0	0	0
Percent Difference		-6.1%	-4.8%	-18.4%	-12.6%	-10.0%	-2.5%	-1.3%				
Below Normal (17%)												
No Action Alternative	40	75	1613	716	1433	83	89	0	0	0	0	0
Alternative C	51	76	1762	643	989	27	69	0	0	0	0	0
Difference	11	0	150	-73	-444	-56	-20	0	0	0	0	0
Percent Difference	27.5%	0.6%	9.3%	-10.2%	-31.0%	-67.4%	-22.9%					
Dry (22%)												
No Action Alternative	0	75	2090	256	768	245	0	0	0	0	0	0
Alternative C	0	66	2194	145	538	104	0	0	0	0	0	0
Difference	0	-9	104	-111	-231	-141	0	0	0	0	0	0
Percent Difference		-12.1%	5.0%	-43.4%	-30.0%	-57.6%						
Critical (15%)												
No Action Alternative	0	0	29	14	13	0	0	0	0	0	0	0
Alternative C	0	0	28	2	8	0	0	0	0	0	0	0
Difference	0	0	-1	-12	-5	0	0	0	0	0	0	0
Percent Difference			-2.3%	-82.7%	-38.9%							

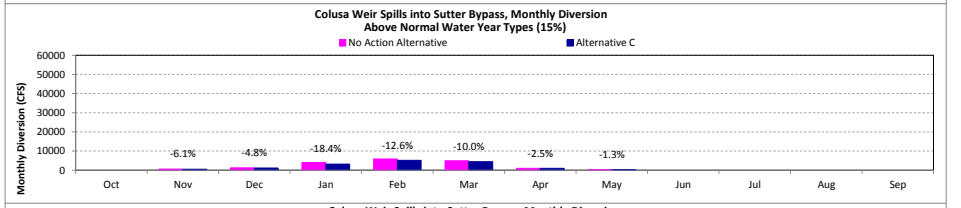
1 Based on the 82-year simulation period

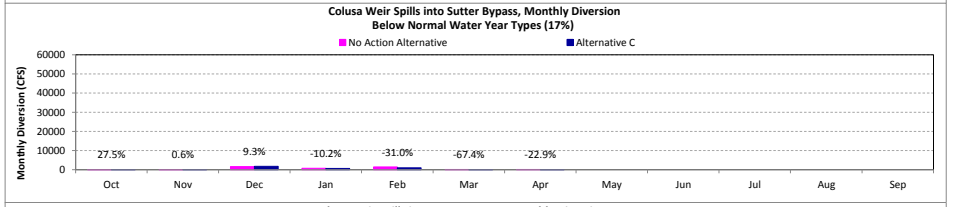
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

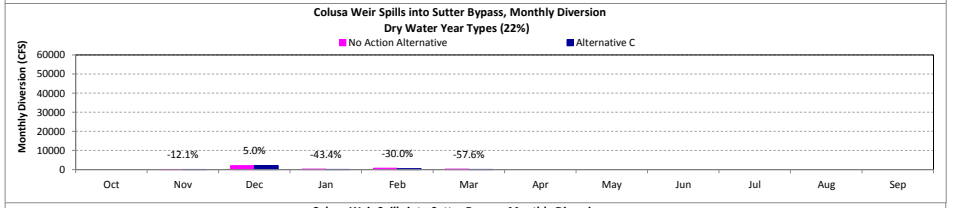
3 Relative difference of the monthly average











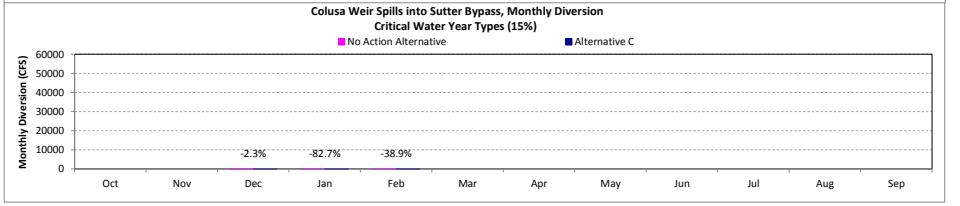


Figure SW-51-7b
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

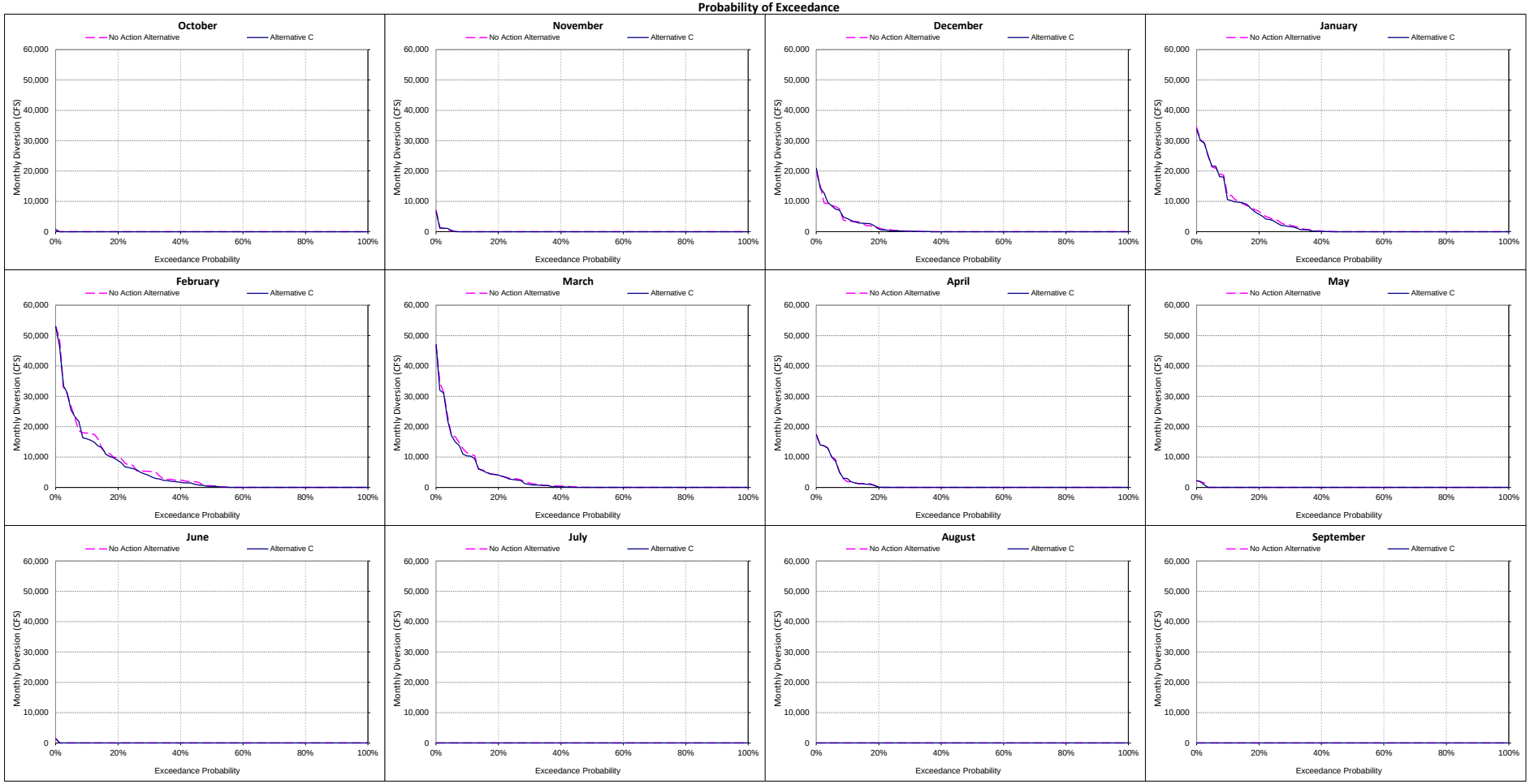


Table SW-51-7b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	559	712	154	27.5%	0.0%	7065	6635	-430	-6.1%	0.0%	19690	20916	1226	6.2%	0.0%	34396	33848	-549	-1.6%
1.2%	0	0	0		1.2%	1342	1187	-156	-11.6%	1.2%	15339	14334	-1004	-6.5%	1.2%	30467	30033	-434	-1.4%
2.5%	0	0	0		2.5%	1052	1181	129	12.2%	2.5%	9438	12693	3255	34.5%	2.5%	29120	29281	161	0.6%
3.7%	0	0	0		3.7%	585	1059	473	80.9%	3.7%	9260	9665	405	4.4%	3.7%	24936	24926	-11	0.0%
4.9%	0	0	0		4.9%	318	345	26	8.3%	4.9%	8690	8510	-180	-2.1%	4.9%	21295	21610	315	1.5%
6.2%	0	0	0		6.2%	0	27	27		6.2%	8205	7431	-774	-9.4%	6.2%	20927	21562	636	3.0%
7.4%	0	0	0		7.4%	0	0	0		7.4%	7529	7059	-470	-6.2%	7.4%	19015	18100	-914	-4.8%
8.6%	0	0	0		8.6%	0	0	0		8.6%	3842	4820	977	25.4%	8.6%	18640	18038	-602	-3.2%
9.9%	0	0	0		9.9%	0	0	0		9.9%	3410	4344	934	27.4%	9.9%	11980	10579	-1401	-11.7%
11.1%	0	0	0		11.1%	0	0	0		11.1%	3381	3760	380	11.2%	11.1%	11956	10245	-1711	-14.3%
12.3%	0	0	0		12.3%	0	0	0		12.3%	3364	3207	-157	-4.7%	12.3%	10544	9835	-710	-6.7%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	2872	-390	-11.9%	13.6%	10025	9707	-318	-3.2%
14.8%	0	0	0		14.8%	0	0	0		14.8%	2761	2781	20	0.7%	14.8%	9226	9433	206	2.2%
16.0%	0	0	0		16.0%	0	0	0		16.0%	1997	2719	722	36.1%	16.0%	8577	9018	441	5.1%
17.3%	0	0	0		17.3%	0	0	0		17.3%	1931	2588	657	34.0%	17.3%	8270	7753	-516	-6.2%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1632	2006	374	22.9%	18.5%	7295	6637	-658	-9.0%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1364	1010	-354	-26.0%	19.8%	6835	5833	-1003	-14.7%
21.0%	0	0	0		21.0%	0	0	0		21.0%	840	542	-298	-35.5%	21.0%	5815	5161	-654	-11.2%
22.2%	0	0	0		22.2%	0	0	0		22.2%	727	540	-187	-25.7%	22.2%	4988	4116	-872	-17.5%
23.5%	0	0	0		23.5%	0	0	0		23.5%	722	333	-389	-53.9%	23.5%	4592	3996	-597	-13.0%
24.7%	0	0	0		24.7%	0	0	0		24.7%	444	329	-115	-25.8%	24.7%	3793	3532	-261	-6.9%
25.9%	0	0	0		25.9%	0	0	0		25.9%	338	312	-27	-7.9%	25.9%	3788	2727	-1061	-28.0%
27.2%	0	0	0		27.2%	0	0	0		27.2%	270	244	-26	-9.6%	27.2%	2797	2087	-710	-25.4%
28.4%	0	0	0		28.4%	0	0	0		28.4%	167	242	75	45.1%	28.4%	2342	1926	-416	-17.8%
29.6%	0	0	0		29.6%	0	0	0		29.6%	136	173	37	27.0%	29.6%	2254	1689	-566	-25.1%
30.9%	0	0	0		30.9%	0	0	0		30.9%	96	167	70	73.1%	30.9%	1865	1587	-278	-14.9%
32.1%	0	0	0		32.1%	0	0	0		32.1%	79	104	25	31.7%	32.1%	1582	1118	-464	-29.3%
33.3%	0	0	0		33.3%	0	0	0		33.3%	72	11	-61	-84.5%	33.3%	1034	686	-347	-33.6%
34.6%	0	0	0		34.6%	0	0	0		34.6%	7	5	-2		34.6%	821	612	-209	-25.5%
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	5	5		35.8%	691	525	-166	-24.0%
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	493	187	-306	-62.1%
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	283	151	-132	-46.7%
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	244	93	-151	-62.0%
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	122	84	-38	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	97	30	-67	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	75	0	-75	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	10	0	-10	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-7b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	53046	53019	-27	-0.1%	0.0%	46969	46968	-1	0.0%	0.0%	17385	17401	17	0.1%	0.0%	2239	2209	-30	-1.3%
1.2%	49189	46362	-2827	-5.7%	1.2%	34582	32037	-2545	-7.4%	1.2%	13969	13960	-9	-0.1%	1.2%	1860	1849	-11	-0.6%
2.5%	33038	33475	437	1.3%	2.5%	31132	31094	-38	-0.1%	2.5%	13675	13678	3	0.0%	2.5%	1459	803	-656	-45.0%
3.7%	30755	31180	425	1.4%	3.7%	23411	22188	-1223	-5.2%	3.7%	12966	12966	0	0.0%	3.7%	0	0	0	
4.9%	26703	25428	-1275	-4.8%	4.9%	17043	17019	-24	-0.1%	4.9%	10049	10046	-3	0.0%	4.9%	0	0	0	
6.2%	22915	23251	336	1.5%	6.2%	16703	14907	-1796	-10.8%	6.2%	9208	8575	-633	-6.9%	6.2%	0	0	0	
7.4%	18664	21708	3043	16.3%	7.4%	14755	13826	-929	-6.3%	7.4%	5026	5025	-1	0.0%	7.4%	0	0	0	
8.6%	17950	16316	-1634	-9.1%	8.6%	12737	10997	-1740	-13.7%	8.6%	2869	2987	118	4.1%	8.6%	0	0	0	
9.9%	17925	16029	-1896	-10.6%	9.9%	11398	10358	-1040	-9.1%	9.9%	1890	2876	986	52.2%	9.9%	0	0	0	
11.1%	17625	15622	-2004	-11.4%	11.1%	10899	10275	-624	-5.7%	11.1%	1857	1860	4	0.2%	11.1%	0	0	0	
12.3%	17461	14856	-2605	-14.9%	12.3%	10493	9506	-987	-9.4%	12.3%	1459	1488	29	2.0%	12.3%	0	0	0	
13.6%	15972	13607	-2365	-14.8%	13.6%	6055	6061	6	0.1%	13.6%	1283	1241	-42	-3.3%	13.6%	0	0	0	
14.8%	12659	13059	399	3.2%	14.8%	5729	5541	-188	-3.3%	14.8%	1259	1223	-36	-2.9%	14.8%	0	0	0	
16.0%	11444	10897	-547	-4.8%	16.0%	5270	4989	-281	-5.3%	16.0%	1251	1036	-215	-17.2%	16.0%	0	0	0	
17.3%	11105	10203	-903	-8.1%	17.3%	4505	4497	-8	-0.2%	17.3%	1206	965	-241	-20.0%	17.3%	0	0	0	
18.5%	9984	9740	-243	-2.4%	18.5%	4280	4281	2	0.0%	18.5%	659	657	-3	-0.4%	18.5%	0	0	0	
19.8%	9724	9020	-703	-7.2%	19.8%	4180	4128	-52	-1.3%	19.8%	213	195	-18	-8.5%	19.8%	0	0	0	
21.0%	9497	8107	-1390	-14.6%	21.0%	3669	3648	-22	-0.6%	21.0%	48	48	0		21.0%	0	0	0	
22.2%	7924	6797	-1127	-14.2%	22.2%	3346	3342	-4	-0.1%	22.2%	10	0	-10		22.2%	0	0	0	
23.5%	7401	6551	-850	-11.5%	23.5%	3001	2748	-253	-8.4%	23.5%	0	0	0		23.5%	0	0	0	
24.7%	7267	6180	-1087	-15.0%	24.7%	2925	2593	-331	-11.3%	24.7%	0	0	0		24.7%	0	0	0	
25.9%	5435	5826	391	7.2%	25.9%	2758	2365	-393	-14.3%	25.9%	0	0	0		25.9%	0	0	0	
27.2%	5428	4993	-435	-8.0%	27.2%	2475	2191	-284	-11.5%	27.2%	0	0	0		27.2%	0	0	0	
28.4%	5342	4433	-909	-17.0%	28.4%	1861	1191	-670	-36.0%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	5275	4025	-1251	-23.7%	29.6%	1574	1076	-498	-31.7%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	5208	3375	-1834	-35.2%	30.9%	1139	788	-352	-30.9%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	4943	2956	-1987	-40.2%	32.1%	1074	764	-310	-28.8%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3667	2777	-890	-24.3%	33.3%	917	661	-256	-27.9%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	2783	2325	-458	-16.5%	34.6%	654	594	-60	-9.1%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	2667	2268	-399	-15.0%	35.8%	590	588	-1	-0.2%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2603	1963	-640	-24.6%	37.0%	571	256	-315	-55.2%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2391	1869	-522	-21.8%	38.3%	477	206	-271	-56.8%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2311	1725	-586	-25.4%	39.5%	421	168	-253	-60.1%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2307	1542	-765	-33.2%	40.7%	400	157	-243	-60.8%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	1990	1496	-494	-24.8%	42.0%	369	121	-248	-67.3%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	1940	1429	-510	-26.3%	43.2%	202	98	-103	-51.3%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1906	1064	-841	-44.1%	44.4%	196	26	-170	-86.7%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1681	791	-890	-52.9%	45.7%	48	0	-48		45.7%	0	0	0		45.7%	0	0	0	
46.9%	983	696	-287	-29.2%	46.9%	39	0	-39		46.9%	0	0	0		46.9%	0	0	0	
48.1%	553	410	-142	-25.8%	48.1%	1	0	-1		48.1%	0	0	0		48.1%	0	0	0	
49.4%	534	382	-152	-28.4%	49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	498	372	-126	-25.3%	50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	290	274	-16	-5.4%	51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	160	98	-62		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	145	94	-51		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-7b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	1574	1434	-140	-8.9%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

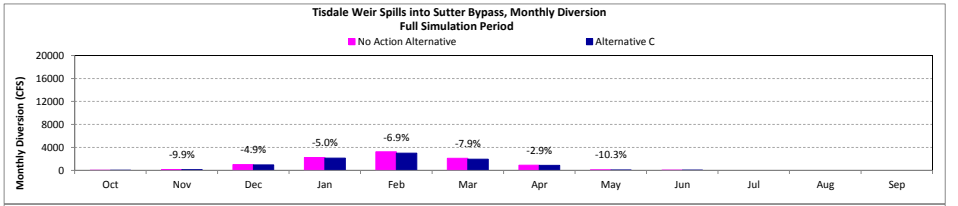
Table SW-52-7a
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

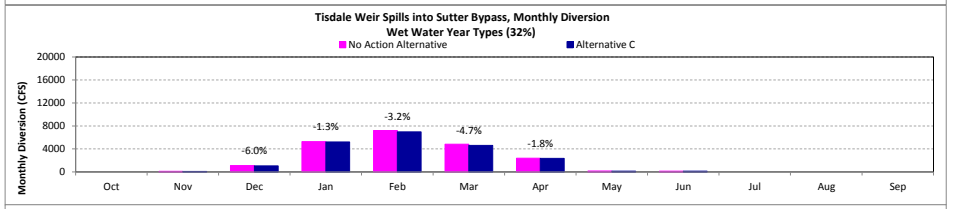
Analysis Period	Monthly Diversion (CFS) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	8	147	1010	2248	3231	2125	897	89	45	0	0	0
Alternative C	10	133	961	2135	3007	1956	871	80	45	0	0	0
Difference	2	-15	-50	-113	-224	-169	-26	-9	-1	0	0	0
Percent Difference[3]		-9.9%	-4.9%	-5.0%	-6.9%	-7.9%	-2.9%	-10.3%				
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	98	1109	5277	7193	4834	2396	169	143	0	0	0
Alternative C	0	91	1042	5211	6964	4605	2353	143	141	0	0	0
Difference	0	-7	-67	-66	-230	-229	-43	-26	-3	0	0	0
Percent Difference			-6.0%	-1.3%	-3.2%	-4.7%	-1.8%					
Above Normal (15%)												
No Action Alternative	0	511	1096	2726	3647	3200	767	241	0	0	0	0
Alternative C	0	447	973	2344	3260	2881	724	234	0	0	0	0
Difference	0	-64	-123	-382	-388	-320	-44	-7	0	0	0	0
Percent Difference		-12.5%	-11.2%	-14.0%	-10.6%	-10.0%	-5.7%	-2.8%				
Below Normal (17%)												
No Action Alternative	49	101	1231	613	1293	265	147	0	0	0	0	0
Alternative C	59	103	1277	550	1011	152	110	0	0	0	0	0
Difference	10	2	46	-63	-282	-113	-37	0	0	0	0	0
Percent Difference	20.0%	2.1%	3.7%	-10.2%	-21.8%	-42.7%	-25.3%					
Dry (22%)												
No Action Alternative	0	110	1255	278	823	356	0	0	0	0	0	0
Alternative C	0	95	1174	175	624	221	0	0	0	0	0	0
Difference	0	-15	-80	-103	-199	-134	0	0	0	0	0	0
Percent Difference		-13.4%	-6.4%	-37.0%	-24.2%	-37.8%						
Critical (15%)												
No Action Alternative	0	0	86	67	101	3	0	0	0	0	0	0
Alternative C	0	0	83	48	87	0	0	0	0	0	0	0
Difference	0	0	-3	-19	-14	-3	0	0	0	0	0	0
Percent Difference			-4.0%	-28.3%	-14.3%	-100.0%						

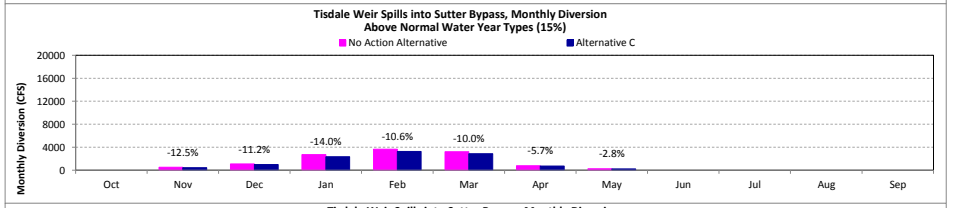
1 Based on the 82-year simulation period

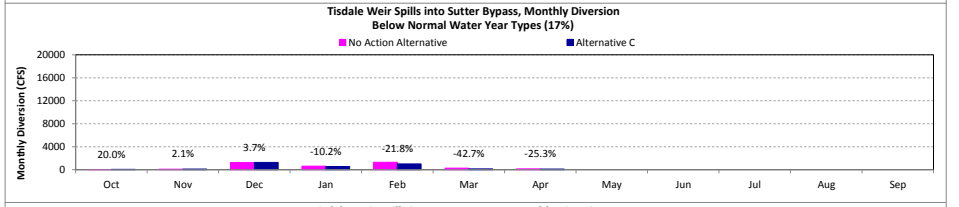
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

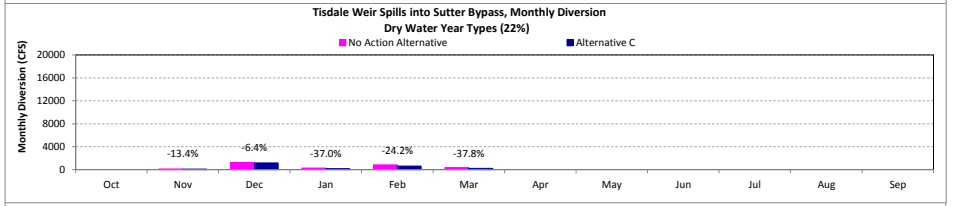
3 Relative difference of the monthly average











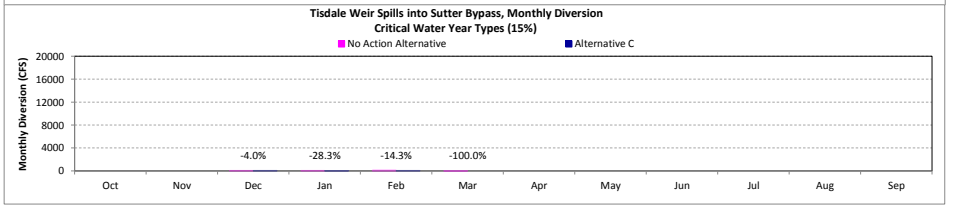


Figure SW-52-7b
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

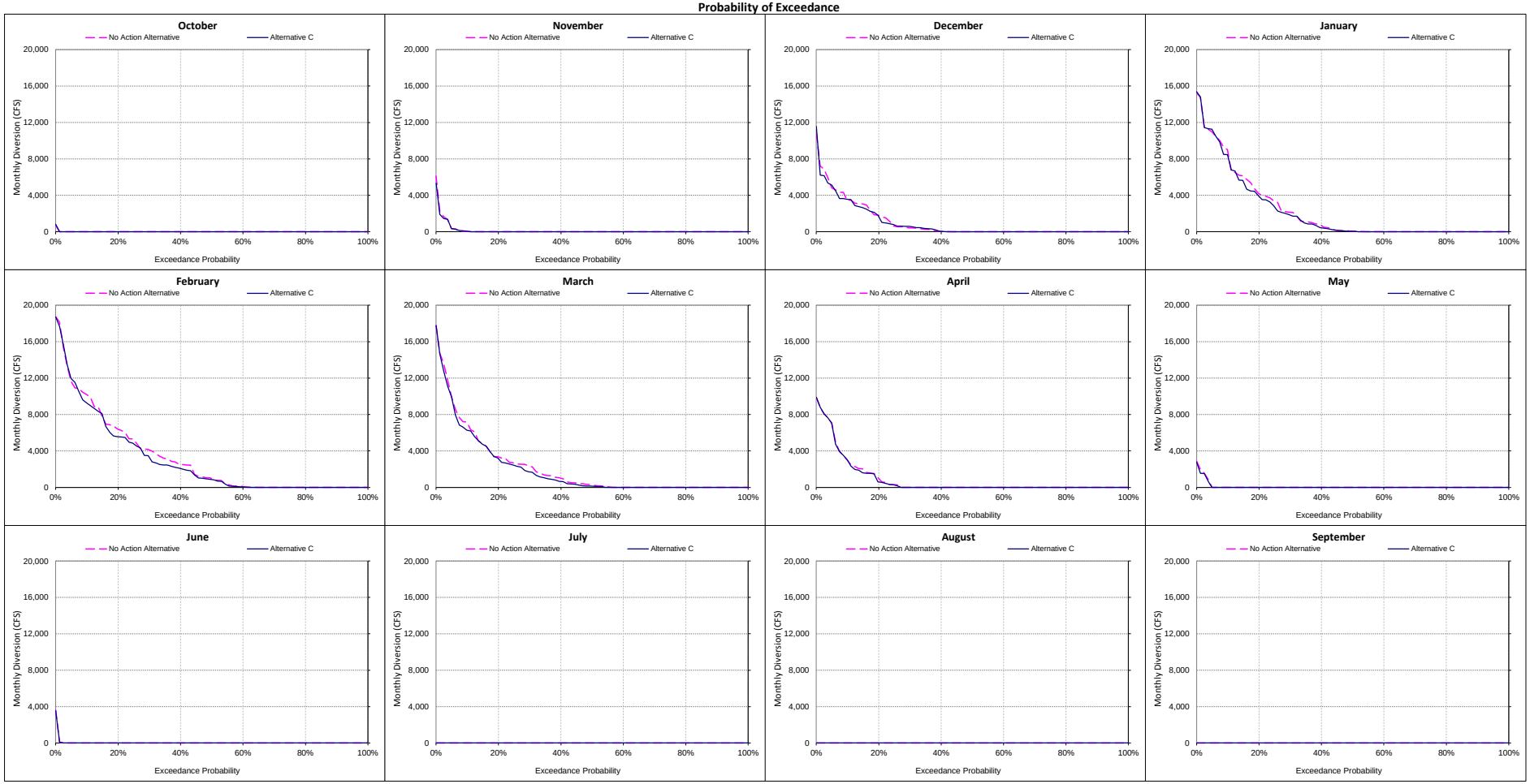


Table SW-52-7b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	685	822	137	20.0%	0.0%	6110	5314	-795	-13.0%	0.0%	10781	11563	783	7.3%	0.0%	15256	15398	142	0.9%
1.2%	0	0	0		1.2%	2168	1904	-264	-12.2%	1.2%	7215	6219	-996	-13.8%	1.2%	14749	14783	35	0.2%
2.5%	0	0	0		2.5%	1645	1444	-201	-12.2%	2.5%	6852	6147	-705	-10.3%	2.5%	11425	11418	-7	-0.1%
3.7%	0	0	0		3.7%	1333	1343	10	0.7%	3.7%	5913	5363	-551	-9.3%	3.7%	11244	11308	64	0.6%
4.9%	0	0	0		4.9%	334	332	-1	-0.3%	4.9%	4807	5114	307	6.4%	4.9%	10953	11254	301	2.7%
6.2%	0	0	0		6.2%	314	270	-45	-14.2%	6.2%	4589	4509	-80	-1.7%	6.2%	10456	10477	21	0.2%
7.4%	0	0	0		7.4%	77	117	40	52.7%	7.4%	4335	3640	-695	-16.0%	7.4%	10022	9864	-159	-1.6%
8.6%	0	0	0		8.6%	32	103	71	221.7%	8.6%	4324	3628	-696	-16.1%	8.6%	9259	8501	-758	-8.2%
9.9%	0	0	0		9.9%	29	47	18	63.0%	9.9%	3467	3557	91	2.6%	9.9%	9014	8464	-549	-6.1%
11.1%	0	0	0		11.1%	15	0	-15	-100.0%	11.1%	3452	3513	61	1.8%	11.1%	6571	6792	221	3.4%
12.3%	0	0	0		12.3%	6	0	-6		12.3%	3136	2873	-263	-8.4%	12.3%	6512	6655	144	2.2%
13.6%	0	0	0		13.6%	4	0	-4		13.6%	3069	2763	-306	-10.0%	13.6%	6193	5667	-526	-8.5%
14.8%	0	0	0		14.8%	0	0	0		14.8%	3047	2643	-404	-13.3%	14.8%	6139	5624	-516	-8.4%
16.0%	0	0	0		16.0%	0	0	0		16.0%	2933	2456	-477	-16.3%	16.0%	5743	4663	-1080	-18.8%
17.3%	0	0	0		17.3%	0	0	0		17.3%	2353	2251	-102	-4.3%	17.3%	5398	4453	-945	-17.5%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1860	2119	260	14.0%	18.5%	4727	4447	-280	-5.9%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1805	1807	2	0.1%	19.8%	4232	3981	-250	-5.9%
21.0%	0	0	0		21.0%	0	0	0		21.0%	1607	1009	-598	-37.2%	21.0%	3952	3526	-426	-10.8%
22.2%	0	0	0		22.2%	0	0	0		22.2%	1526	945	-581	-38.1%	22.2%	3881	3492	-389	-10.0%
23.5%	0	0	0		23.5%	0	0	0		23.5%	1138	872	-266	-23.3%	23.5%	3723	3270	-452	-12.2%
24.7%	0	0	0		24.7%	0	0	0		24.7%	628	778	150	23.9%	24.7%	3397	2844	-553	-16.3%
25.9%	0	0	0		25.9%	0	0	0		25.9%	537	625	88	16.4%	25.9%	3236	2266	-969	-30.0%
27.2%	0	0	0		27.2%	0	0	0		27.2%	534	616	82	15.3%	27.2%	2265	2127	-138	-6.1%
28.4%	0	0	0		28.4%	0	0	0		28.4%	501	583	82	16.3%	28.4%	2209	2006	-203	-9.2%
29.6%	0	0	0		29.6%	0	0	0		29.6%	411	573	162	39.4%	29.6%	2125	1882	-243	-11.4%
30.9%	0	0	0		30.9%	0	0	0		30.9%	404	533	129	31.9%	30.9%	2108	1710	-398	-18.9%
32.1%	0	0	0		32.1%	0	0	0		32.1%	398	439	41	10.3%	32.1%	1700	1703	3	0.2%
33.3%	0	0	0		33.3%	0	0	0		33.3%	330	439	108	32.9%	33.3%	1161	1250	90	7.7%
34.6%	0	0	0		34.6%	0	0	0		34.6%	278	346	68	24.4%	34.6%	1085	970	-116	-10.7%
35.8%	0	0	0		35.8%	0	0	0		35.8%	251	331	79	31.5%	35.8%	1066	856	-209	-19.6%
37.0%	0	0	0		37.0%	0	0	0		37.0%	210	310	99	47.1%	37.0%	977	841	-136	-13.9%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	173	85	96.7%	38.3%	836	658	-178	-21.3%
39.5%	0	0	0		39.5%	0	0	0		39.5%	50	41	-9		39.5%	824	434	-390	-47.4%
40.7%	0	0	0		40.7%	0	0	0		40.7%	16	20	4		40.7%	482	384	-98	-20.3%
42.0%	0	0	0		42.0%	0	0	0		42.0%	13	0	-13		42.0%	451	334	-116	-25.8%
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	319	240	-79	-24.8%
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	174	144	-30	-17.0%
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	103	143	40	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	98	102	4	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	96	47	-49	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	55	34	-22	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	42	30	-12	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	35	0	-35	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	12	0	-12	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	2	0	-2	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-7b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	18736	18730	-6	0.0%	0.0%	17777	17777	0	0.0%	0.0%	9875	9901	27	0.3%	0.0%	2892	2811	-82	-2.8%
1.2%	18159	17669	-490	-2.7%	1.2%	14705	14665	-40	-0.3%	1.2%	8796	8797	1	0.0%	1.2%	1980	1553	-427	-21.6%
2.5%	15350	15597	247	1.6%	2.5%	13585	12770	-815	-6.0%	2.5%	8066	8079	13	0.2%	2.5%	1550	1527	-22	-1.4%
3.7%	13328	13487	159	1.2%	3.7%	11791	11127	-664	-5.6%	3.7%	7657	7658	1	0.0%	3.7%	873	649	-224	-25.6%
4.9%	11640	11944	304	2.6%	4.9%	9970	9960	-10	-0.1%	4.9%	7057	7056	-1	0.0%	4.9%	0	0	0	
6.2%	10925	11541	617	5.6%	6.2%	8585	7951	-634	-7.4%	6.2%	4953	4729	-225	-4.5%	6.2%	0	0	0	
7.4%	10864	10515	-349	-3.2%	7.4%	7690	6846	-844	-11.0%	7.4%	3949	3949	0	0.0%	7.4%	0	0	0	
8.6%	10452	9628	-824	-7.9%	8.6%	7209	6625	-584	-8.1%	8.6%	3511	3514	3	0.1%	8.6%	0	0	0	
9.9%	10203	9279	-924	-9.1%	9.9%	7184	6275	-909	-12.6%	9.9%	3009	3013	4	0.1%	9.9%	0	0	0	
11.1%	9890	8999	-891	-9.0%	11.1%	6322	6194	-127	-2.0%	11.1%	2471	2354	-117	-4.7%	11.1%	0	0	0	
12.3%	8871	8683	-189	-2.1%	12.3%	6110	5566	-544	-8.9%	12.3%	2286	1964	-321	-14.1%	12.3%	0	0	0	
13.6%	8858	8352	-506	-5.7%	13.6%	5093	5097	4	0.1%	13.6%	2059	1886	-173	-8.4%	13.6%	0	0	0	
14.8%	7839	8093	254	3.2%	14.8%	4819	4736	-83	-1.7%	14.8%	2027	1614	-413	-20.4%	14.8%	0	0	0	
16.0%	6949	6685	-264	-3.8%	16.0%	4524	4526	1	0.0%	16.0%	1642	1537	-104	-6.4%	16.0%	0	0	0	
17.3%	6880	6046	-834	-12.1%	17.3%	3954	3952	-2	0.0%	17.3%	1579	1531	-48	-3.0%	17.3%	0	0	0	
18.5%	6738	5653	-1085	-16.1%	18.5%	3390	3384	-6	-0.2%	18.5%	1525	1499	-27	-1.7%	18.5%	0	0	0	
19.8%	6425	5556	-868	-13.5%	19.8%	3359	3214	-145	-4.3%	19.8%	1066	591	-475	-44.6%	19.8%	0	0	0	
21.0%	6243	5536	-707	-11.3%	21.0%	3225	2742	-483	-15.0%	21.0%	595	535	-60	-10.1%	21.0%	0	0	0	
22.2%	6027	5493	-534	-8.9%	22.2%	3184	2673	-511	-16.0%	22.2%	547	427	-120	-21.9%	22.2%	0	0	0	
23.5%	5332	4953	-379	-7.1%	23.5%	2752	2584	-168	-6.1%	23.5%	310	309	0	0.0%	23.5%	0	0	0	
24.7%	5325	4857	-467	-8.8%	24.7%	2704	2469	-234	-8.7%	24.7%	305	286	-18	-6.0%	24.7%	0	0	0	
25.9%	4823	4535	-288	-6.0%	25.9%	2562	2307	-255	-9.9%	25.9%	274	172	-102	-37.3%	25.9%	0	0	0	
27.2%	4221	4342	120	2.9%	27.2%	2543	2234	-309	-12.1%	27.2%	7	0	-7		27.2%	0	0	0	
28.4%	4202	3518	-684	-16.3%	28.4%	2531	1851	-679	-26.8%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	4164	3477	-687	-16.5%	29.6%	2375	1706	-669	-28.2%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	3976	2800	-1176	-29.6%	30.9%	2249	1650	-599	-26.6%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	3709	2674	-1035	-27.9%	32.1%	1701	1328	-374	-22.0%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3409	2524	-885	-26.0%	33.3%	1567	1151	-416	-26.5%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	3214	2458	-755	-23.5%	34.6%	1365	1048	-317	-23.2%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	3121	2445	-676	-21.7%	35.8%	1304	946	-358	-27.4%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2867	2309	-559	-19.5%	37.0%	1266	892	-375	-29.6%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2787	2199	-588	-21.1%	38.3%	1110	788	-322	-29.0%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2531	2119	-412	-16.3%	39.5%	1051	648	-403	-38.4%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2503	2013	-490	-19.6%	40.7%	935	638	-297	-31.7%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	2452	1896	-557	-22.7%	42.0%	598	404	-194	-32.4%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	2444	1830	-614	-25.1%	43.2%	508	372	-136	-26.7%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1429	1370	-58	-4.1%	44.4%	504	332	-172	-34.1%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1202	1040	-162	-13.5%	45.7%	416	258	-158	-38.0%	45.7%	0	0	0		45.7%	0	0	0	
46.9%	1153	988	-165	-14.3%	46.9%	406	165	-242	-59.4%	46.9%	0	0	0		46.9%	0	0	0	
48.1%	1064	930	-134	-12.6%	48.1%	333	141	-192	-57.7%	48.1%	0	0	0		48.1%	0	0	0	
49.4%	1053	879	-173	-16.5%	49.4%	302	132	-170	-56.2%	49.4%	0	0	0		49.4%	0	0	0	
50.6%	866	829	-37	-4.3%	50.6%	217	110	-106	-49.1%	50.6%	0	0	0		50.6%	0	0	0	
51.9%	776	677	-99	-12.8%	51.9%	171	83	-88	-51.7%	51.9%	0	0	0		51.9%	0	0	0	
53.1%	754	654	-100	-13.2%	53.1%	156	77	-80	-50.9%	53.1%	0	0	0		53.1%	0	0	0	
54.3%	382	349	-33	-8.6%	54.3%	95	0	-95		54.3%	0	0	0		54.3%	0	0	0	
55.6%	274	144	-130	-47.5%	55.6%	33	0	-33		55.6%	0	0	0		55.6%	0	0	0	
56.8%	149	109	-39		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	137	90	-46		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	131	65	-66		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	53	35	-19		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	31	9	-22		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	21	0	-21		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	1	0	-1		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-7b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative C Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	3625	3561	-63	-1.7%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	97	93	-3	-3.6%	1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Alternative D Compared to No Action Alternative

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Table SW-49-9a
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						Monthly Diversion (CFS)						
						Long-term						
Full Simulation Period[1]												
No Action Alternative	0	0	63	257	431	189	14	0	0	0	0	0
Alternative D	0	0	80	237	416	179	13	0	0	0	0	0
Difference	0	0	17	-20	-15	-10	-1	0	0	0	0	0
Percent Difference[3]			27.8%	-7.9%	-3.5%	-5.2%	-4.7%					
						Water Year Types[2]						
Wet (32%)												
No Action Alternative	0	0	29	779	1213	554	34	0	0	0	0	0
Alternative D	0	0	36	732	1187	533	34	0	0	0	0	0
Difference	0	0	7	-46	-26	-21	0	0	0	0	0	0
Percent Difference			22.7%	-6.0%	-2.2%	-3.8%	-0.1%					
Above Normal (15%)												
No Action Alternative	0	0	1	68	316	88	19	0	0	0	0	0
Alternative D	0	0	13	30	268	67	14	0	0	0	0	0
Difference	0	0	13	-38	-48	-21	-4	0	0	0	0	0
Percent Difference				-55.5%	-15.1%	-23.9%	-23.0%					
Below Normal (17%)												
No Action Alternative	0	0	123	0	0	0	0	0	0	0	0	0
Alternative D	0	0	125	0	0	0	0	0	0	0	0	0
Difference	0	0	2	0	0	0	0	0	0	0	0	0
Percent Difference			1.5%									
Dry (22%)												
No Action Alternative	0	0	147	0	0	0	0	0	0	0	0	0
Alternative D	0	0	207	0	0	0	0	0	0	0	0	0
Difference	0	0	60	0	0	0	0	0	0	0	0	0
Percent Difference			40.8%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative D	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

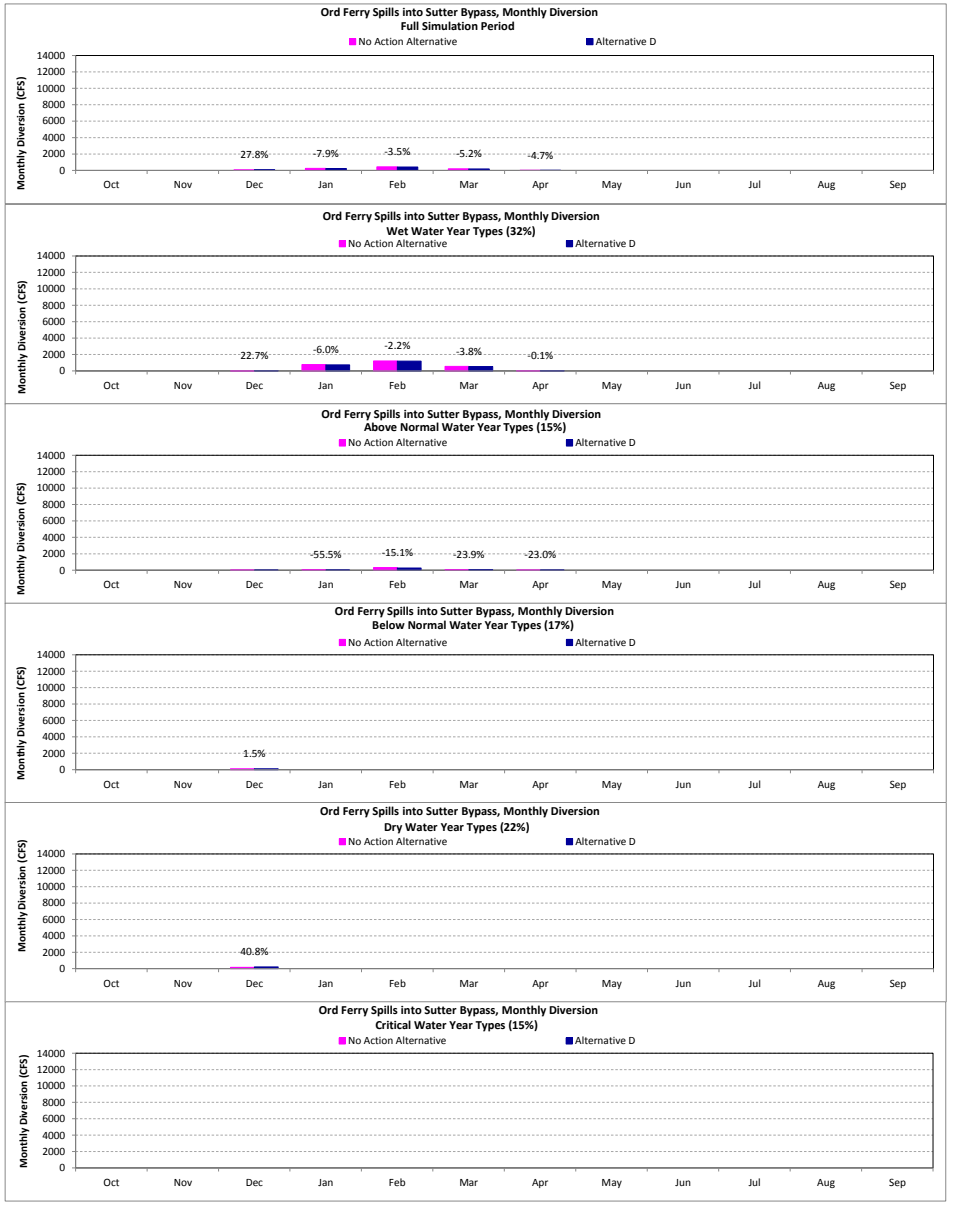


Figure SW-49-9b
Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

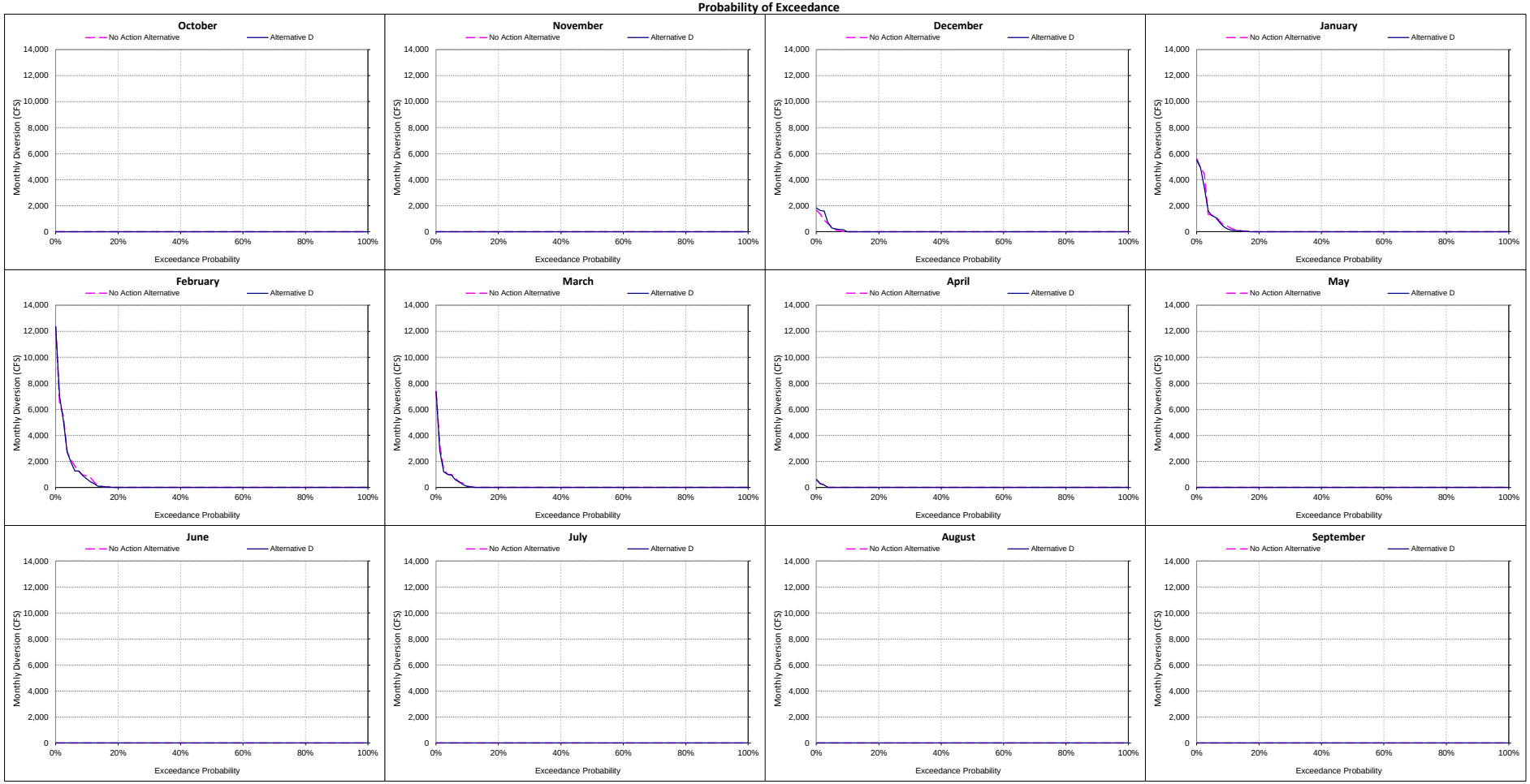


Table SW-49-9b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1820	161	9.7%	0.0%	5633	5508	-126	-2.2%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1623	259	19.0%	1.2%	4956	4950	-6	-0.1%
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	1586	679	74.8%	2.5%	4426	3390	-1036	-23.4%
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	723	106	17.2%	3.7%	1331	1595	264	19.8%
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	286	-91	-24.1%	4.9%	1271	1220	-50	-3.9%
6.2%	0	0	0		6.2%	0	0	0		6.2%	150	218	68	45.3%	6.2%	1147	1084	-63	-5.5%
7.4%	0	0	0		7.4%	0	0	0		7.4%	70	170	100	143.1%	7.4%	807	704	-103	-12.8%
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	159	153		8.6%	492	399	-93	-18.8%
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	408	206	-202	-49.5%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	255	107	-148	-58.2%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	135	86	-50	-36.7%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	131	73	-58	-44.4%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	29	50	21	73.9%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	25	33	8	30.5%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	21	0	-21	-100.0%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-9b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	12366	12368	2	0.0%	0.0%	7360	7360	0	0.0%	0.0%	608	608	0	0.0%	0.0%	0	0	0	
1.2%	6536	6981	445	6.8%	1.2%	3196	2802	-394	-12.3%	1.2%	285	284	-1	-0.3%	1.2%	0	0	0	
2.5%	5493	5066	-427	-7.8%	2.5%	1350	1201	-149	-11.0%	2.5%	225	173	-52	-23.0%	2.5%	0	0	0	
3.7%	2709	2715	6	0.2%	3.7%	994	994	0	0.0%	3.7%	0	0	0		3.7%	0	0	0	
4.9%	2095	1922	-173	-8.3%	4.9%	987	945	-42	-4.2%	4.9%	0	0	0		4.9%	0	0	0	
6.2%	1642	1269	-373	-22.7%	6.2%	737	586	-152	-20.6%	6.2%	0	0	0		6.2%	0	0	0	
7.4%	1220	1261	42	3.4%	7.4%	383	425	41	10.8%	7.4%	0	0	0		7.4%	0	0	0	
8.6%	957	895	-62	-6.4%	8.6%	322	220	-102	-31.6%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	889	665	-224	-25.2%	9.9%	91	89	-2	-2.6%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	763	439	-324	-42.4%	11.1%	49	49	0	-0.1%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	391	287	-104	-26.6%	12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	120	77	-43	-36.1%	13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	63	75	12	19.3%	14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	50	32	-19	-37.0%	16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	41	30	-11	-26.6%	17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-49-9b

Ord Ferry Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-9a
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Diversion (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	0	0	59	283	467	240	32	0	0	0	0	0
Alternative D	0	0	73	272	453	222	31	0	0	0	0	0
Difference	0	0	15	-11	-14	-18	-1	0	0	0	0	0
Percent Difference[3]			24.8%	-4.0%	-3.0%	-7.5%	-2.8%					
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	0	42	829	1367	690	83	0	0	0	0	0
Alternative D	0	0	49	811	1336	651	83	0	0	0	0	0
Difference	0	0	8	-18	-31	-39	0	0	0	0	0	0
Percent Difference			18.3%	-2.1%	-2.3%	-5.7%	0.4%					
Above Normal (15%)												
No Action Alternative	0	0	7	139	229	147	38	0	0	0	0	0
Alternative D	0	1	20	99	195	109	31	0	0	0	0	0
Difference	0	1	13	-41	-34	-38	-7	0	0	0	0	0
Percent Difference				-29.2%	-14.7%	-26.0%	-17.9%					
Below Normal (17%)												
No Action Alternative	0	0	94	1	0	0	0	0	0	0	0	0
Alternative D	0	0	102	3	5	0	0	0	0	0	0	0
Difference	0	0	8	1	5	0	0	0	0	0	0	0
Percent Difference			8.6%	108.3%								
Dry (22%)												
No Action Alternative	0	0	130	0	0	0	0	0	0	0	0	0
Alternative D	0	0	170	0	0	0	0	0	0	0	0	0
Difference	0	0	40	0	0	0	0	0	0	0	0	0
Percent Difference			30.9%									
Critical (15%)												
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative D	0	0	0	0	0	0	0	0	0	0	0	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference												

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

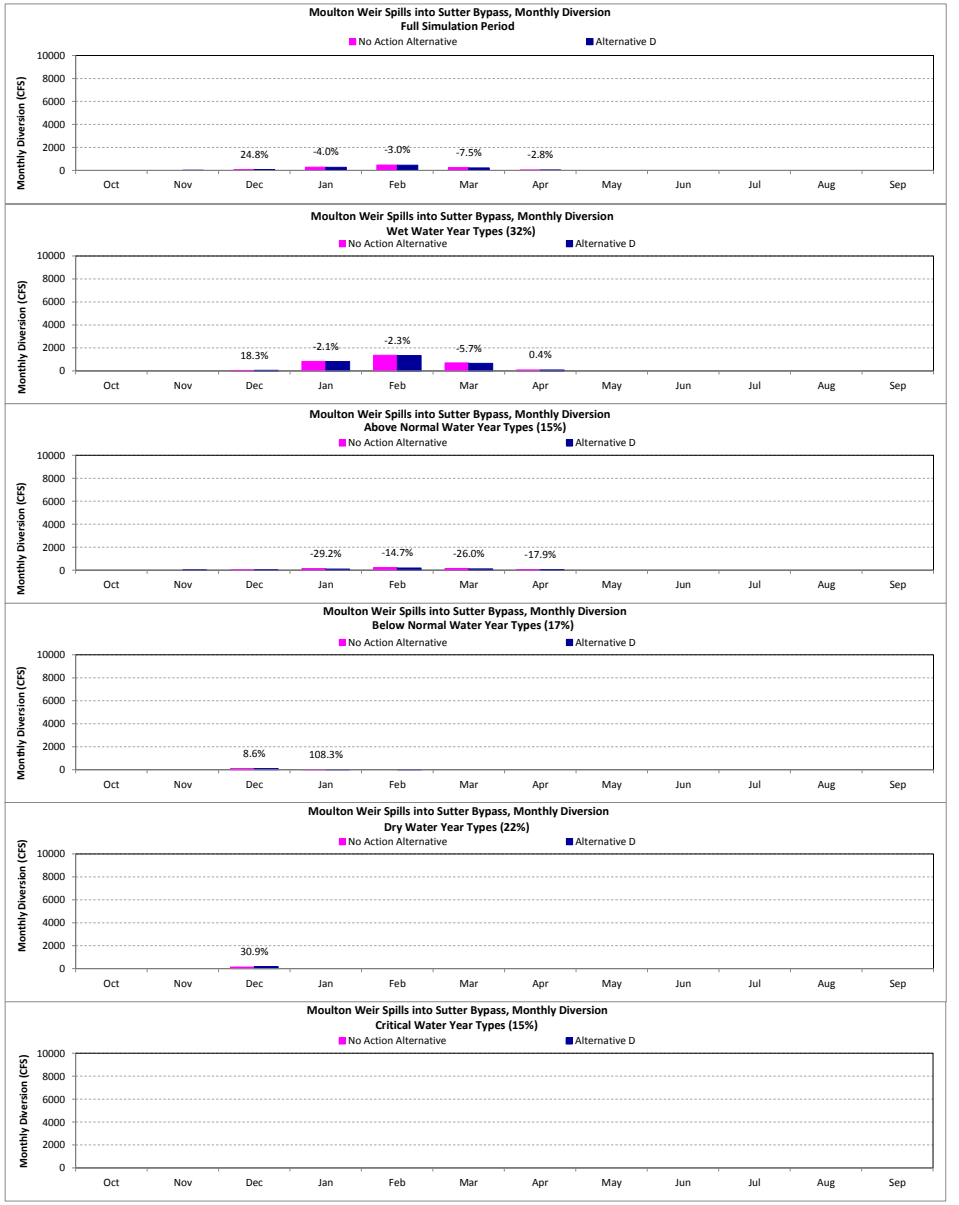


Figure SW-50-9b
Moulton Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

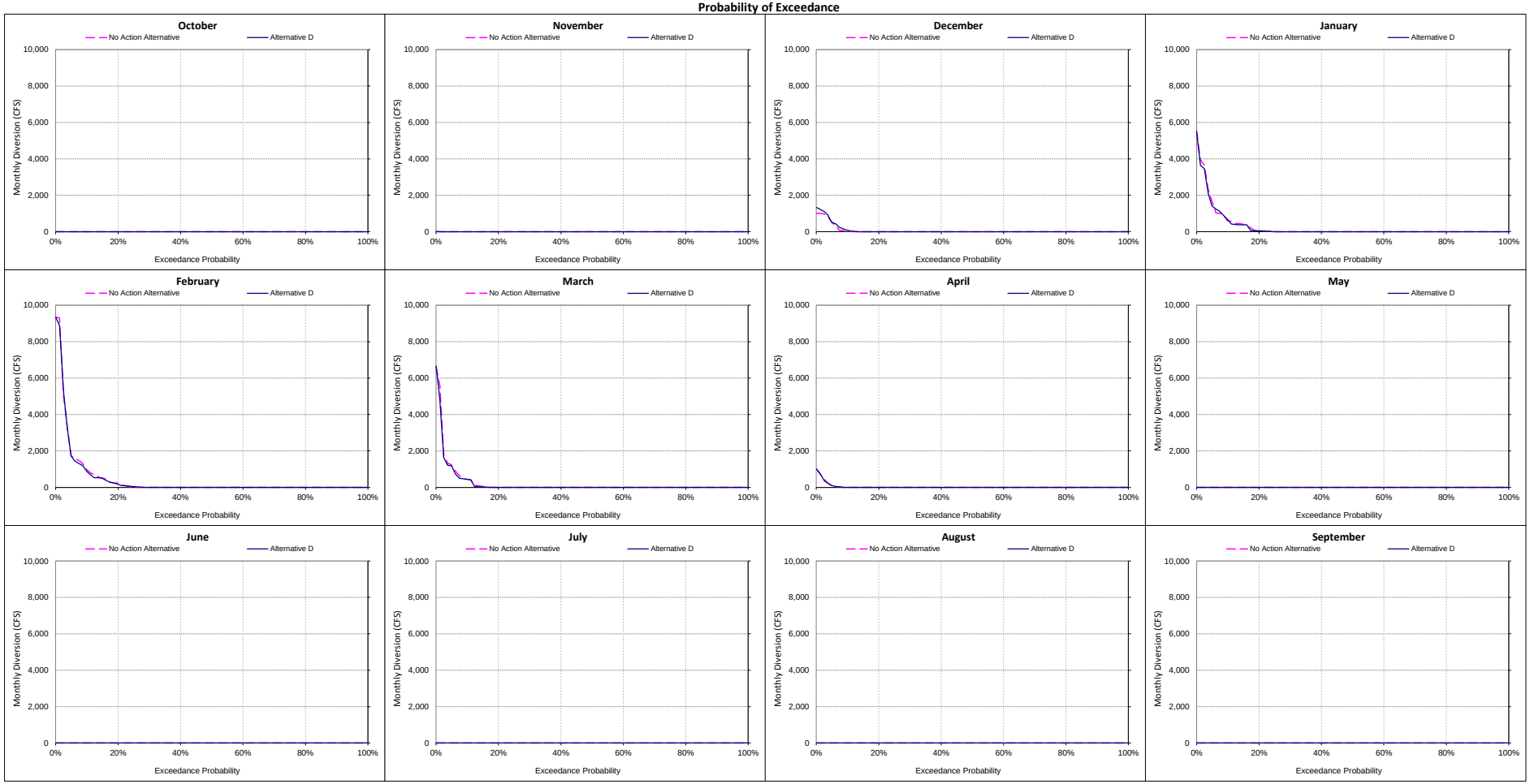


Table SW-50-9b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	10	10		0.0%	1010	1334	324	32.1%	0.0%	5535	5511	-25	-0.4%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1009	1217	208	20.7%	1.2%	3947	3653	-294	-7.5%
2.5%	0	0	0		2.5%	0	0	0		2.5%	969	1102	133	13.7%	2.5%	3653	3462	-190	-5.2%
3.7%	0	0	0		3.7%	0	0	0		3.7%	839	920	81	9.7%	3.7%	2312	2111	-201	-8.7%
4.9%	0	0	0		4.9%	0	0	0		4.9%	494	514	20	4.1%	4.9%	1658	1422	-236	-14.2%
6.2%	0	0	0		6.2%	0	0	0		6.2%	351	436	86	24.4%	6.2%	1025	1256	231	22.5%
7.4%	0	0	0		7.4%	0	0	0		7.4%	74	230	156	210.5%	7.4%	1003	1127	124	12.3%
8.6%	0	0	0		8.6%	0	0	0		8.6%	53	144	92	175.1%	8.6%	890	899	9	1.0%
9.9%	0	0	0		9.9%	0	0	0		9.9%	28	77	49	177.1%	9.9%	594	681	87	14.7%
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	36	36		11.1%	571	422	-149	-26.0%
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	10	10		12.3%	446	396	-50	-11.2%
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	444	380	-64	-14.4%
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	414	379	-36	-8.6%
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	309	374	65	21.1%
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	213	65	-148	-69.3%
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	77	48	-29	-37.4%
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	53	45	-8	-14.7%
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	47	38	-9	-18.7%
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	26	29	2	8.1%
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	18	21	3	14.2%
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	10	0	-10	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-9b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	9355	9340	-15	-0.2%	0.0%	6639	6642	2	0.0%	0.0%	1015	1016	1	0.1%	0.0%	0	0	0	
1.2%	9304	8874	-431	-4.6%	1.2%	5565	4850	-715	-12.8%	1.2%	737	737	0	0.0%	1.2%	0	0	0	
2.5%	5144	5282	138	2.7%	2.5%	1750	1644	-106	-6.1%	2.5%	459	377	-82	-17.9%	2.5%	0	0	0	
3.7%	3323	3344	21	0.6%	3.7%	1332	1217	-115	-8.6%	3.7%	227	234	7	3.2%	3.7%	0	0	0	
4.9%	1751	1734	-17	-1.0%	4.9%	1238	1189	-49	-4.0%	4.9%	96	96	0	-0.1%	4.9%	0	0	0	
6.2%	1559	1437	-122	-7.8%	6.2%	899	737	-161	-18.0%	6.2%	40	40	0	0.1%	6.2%	0	0	0	
7.4%	1482	1318	-164	-11.0%	7.4%	664	493	-170	-25.7%	7.4%	36	36	0	0.3%	7.4%	0	0	0	
8.6%	1317	1200	-117	-8.9%	8.6%	469	469	0	0.1%	8.6%	0	0	0		8.6%	0	0	0	
9.9%	976	880	-96	-9.9%	9.9%	443	440	-3	-0.7%	9.9%	0	0	0		9.9%	0	0	0	
11.1%	806	702	-104	-13.0%	11.1%	412	411	-1	-0.2%	11.1%	0	0	0		11.1%	0	0	0	
12.3%	682	533	-149	-21.9%	12.3%	124	47	-77	-62.0%	12.3%	0	0	0		12.3%	0	0	0	
13.6%	574	531	-44	-7.6%	13.6%	87	32	-55	-63.3%	13.6%	0	0	0		13.6%	0	0	0	
14.8%	510	516	5	1.1%	14.8%	47	29	-18	-37.9%	14.8%	0	0	0		14.8%	0	0	0	
16.0%	466	383	-83	-17.7%	16.0%	34	17	-18	-52.0%	16.0%	0	0	0		16.0%	0	0	0	
17.3%	290	288	-2	-0.7%	17.3%	1	8	7		17.3%	0	0	0		17.3%	0	0	0	
18.5%	239	249	11	4.6%	18.5%	1	1	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	236	183	-53	-22.3%	19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	118	96	-22	-18.8%	21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	101	84	-17	-17.2%	22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	38	66	27	70.4%	23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	14	46	32		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	27	27		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	21	21		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-50-9b

Moulton Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-9a
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
						Monthly Diversion (CFS)						
						Long-term						
Full Simulation Period[1]												
No Action Alternative	7	126	1329	3917	5723	3523	1174	68	19	0	0	0
Alternative D	8	126	1420	3750	5415	3292	1172	57	18	0	0	0
Difference	1	-1	91	-167	-308	-231	-2	-11	-1	0	0	0
Percent Difference[3]			6.9%	-4.3%	-5.4%	-6.6%	-0.2%					
						Water Year Types[2]						
Wet (32%)												
No Action Alternative	0	35	1292	9956	14022	8607	3195	128	61	0	0	0
Alternative D	0	60	1417	9851	13562	8282	3217	103	56	0	0	0
Difference	0	25	126	-105	-460	-324	22	-25	-5	0	0	0
Percent Difference			9.7%	-1.1%	-3.3%	-3.8%	0.7%					
Above Normal (15%)												
No Action Alternative	0	589	1240	3961	5888	4959	997	187	0	0	0	0
Alternative D	0	537	1166	3305	5491	4357	960	169	0	0	0	0
Difference	0	-51	-74	-655	-397	-602	-37	-18	0	0	0	0
Percent Difference		-8.7%	-6.0%	-16.5%	-6.7%	-12.1%	-3.7%	-9.7%				
Below Normal (17%)												
No Action Alternative	40	75	1613	716	1433	83	89	0	0	0	0	0
Alternative D	47	75	1744	644	1125	45	69	0	0	0	0	0
Difference	7	0	131	-72	-308	-38	-20	0	0	0	0	0
Percent Difference	18.1%	-0.3%	8.2%	-10.0%	-21.5%	-45.9%	-22.9%					
Dry (22%)												
No Action Alternative	0	75	2090	256	768	245	0	0	0	0	0	0
Alternative D	0	69	2270	147	539	93	0	0	0	0	0	0
Difference	0	-5	180	-109	-230	-152	0	0	0	0	0	0
Percent Difference		-7.0%	8.6%	-42.5%	-29.9%	-62.0%						
Critical (15%)												
No Action Alternative	0	0	29	14	13	0	0	0	0	0	0	0
Alternative D	0	0	29	2	8	0	0	0	0	0	0	0
Difference	0	0	0	-12	-5	0	0	0	0	0	0	0
Percent Difference			0.3%	-84.0%	-38.3%							

1 Based on the 82-year simulation period

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

3 Relative difference of the monthly average

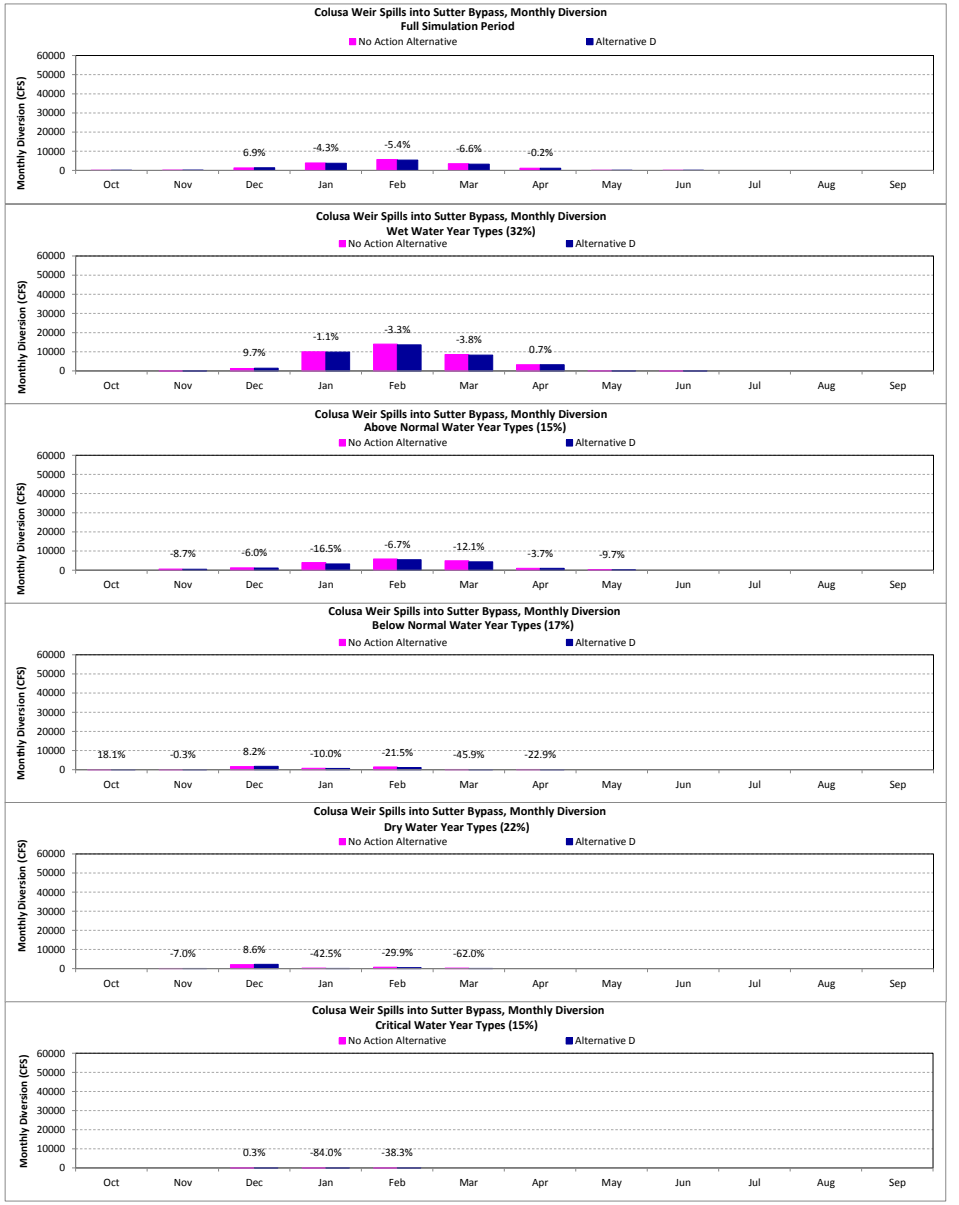


Figure SW-51-9b
Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

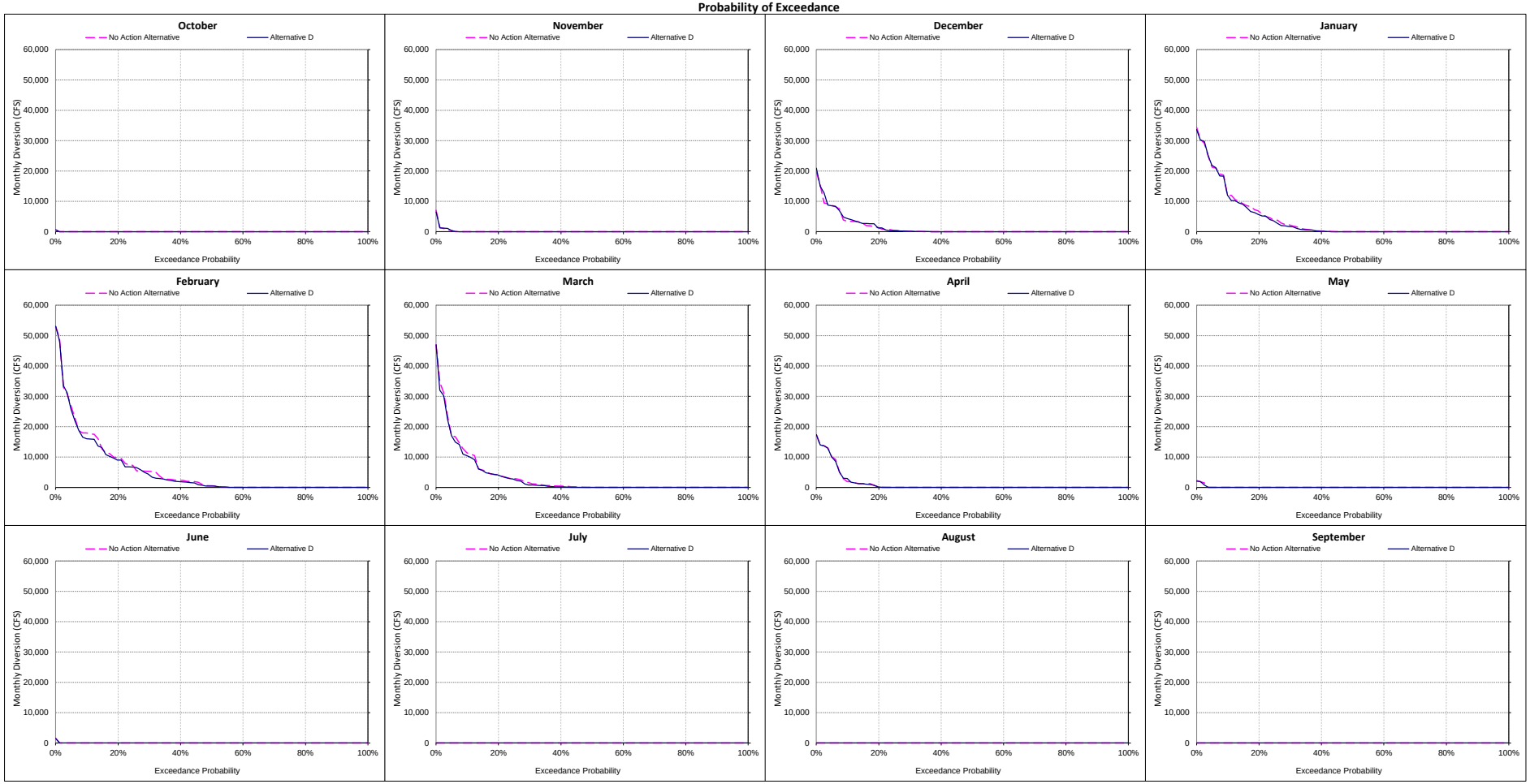


Table SW-51-9b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	559	660	101	18.1%	0.0%	7065	6450	-615	-8.7%	0.0%	19690	20932	1242	6.3%	0.0%	34396	33671	-726	-2.1%
1.2%	0	0	0		1.2%	1342	1248	-94	-7.0%	1.2%	15339	14933	-406	-2.6%	1.2%	30467	30154	-313	-1.0%
2.5%	0	0	0		2.5%	1052	1189	137	13.1%	2.5%	9438	12679	3241	34.3%	2.5%	29120	29730	610	2.1%
3.7%	0	0	0		3.7%	585	1049	464	79.2%	3.7%	9260	8785	-474	-5.1%	3.7%	24936	24930	-6	0.0%
4.9%	0	0	0		4.9%	318	346	28	8.7%	4.9%	8690	8524	-167	-1.9%	4.9%	21295	21884	589	2.8%
6.2%	0	0	0		6.2%	0	27	27		6.2%	8205	8331	126	1.5%	6.2%	20927	21131	204	1.0%
7.4%	0	0	0		7.4%	0	0	0		7.4%	7529	6888	-641	-8.5%	7.4%	19015	18405	-610	-3.2%
8.6%	0	0	0		8.6%	0	0	0		8.6%	3842	4823	980	25.5%	8.6%	18640	18317	-323	-1.7%
9.9%	0	0	0		9.9%	0	0	0		9.9%	3410	4341	931	27.3%	9.9%	11980	12042	62	0.5%
11.1%	0	0	0		11.1%	0	0	0		11.1%	3381	3996	616	18.2%	11.1%	11956	10247	-1710	-14.3%
12.3%	0	0	0		12.3%	0	0	0		12.3%	3364	3582	219	6.5%	12.3%	10544	10217	-328	-3.1%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	3166	-95	-2.9%	13.6%	10025	9456	-569	-5.7%
14.8%	0	0	0		14.8%	0	0	0		14.8%	2761	2721	-40	-1.5%	14.8%	9226	9015	-211	-2.3%
16.0%	0	0	0		16.0%	0	0	0		16.0%	1997	2701	704	35.2%	16.0%	8577	7892	-685	-8.0%
17.3%	0	0	0		17.3%	0	0	0		17.3%	1931	2589	658	34.1%	17.3%	8270	6648	-1621	-19.6%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1632	2585	953	58.4%	18.5%	7295	6270	-1025	-14.1%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1364	1246	-119	-8.7%	19.8%	6835	5663	-1172	-17.1%
21.0%	0	0	0		21.0%	0	0	0		21.0%	840	1217	377	44.9%	21.0%	5815	5156	-659	-11.3%
22.2%	0	0	0		22.2%	0	0	0		22.2%	727	521	-206	-28.3%	22.2%	4988	5106	118	2.4%
23.5%	0	0	0		23.5%	0	0	0		23.5%	722	340	-382	-52.9%	23.5%	4592	3996	-597	-13.0%
24.7%	0	0	0		24.7%	0	0	0		24.7%	444	328	-116	-26.2%	24.7%	3793	3530	-263	-6.9%
25.9%	0	0	0		25.9%	0	0	0		25.9%	338	324	-15	-4.4%	25.9%	3788	2734	-1054	-27.8%
27.2%	0	0	0		27.2%	0	0	0		27.2%	270	245	-25	-9.2%	27.2%	2797	2045	-752	-26.9%
28.4%	0	0	0		28.4%	0	0	0		28.4%	167	242	75	45.0%	28.4%	2342	1945	-396	-16.9%
29.6%	0	0	0		29.6%	0	0	0		29.6%	136	165	29	21.7%	29.6%	2254	1685	-569	-25.3%
30.9%	0	0	0		30.9%	0	0	0		30.9%	96	159	63	65.1%	30.9%	1865	1589	-276	-14.8%
32.1%	0	0	0		32.1%	0	0	0		32.1%	79	78	-1	-1.8%	32.1%	1582	1111	-471	-29.8%
33.3%	0	0	0		33.3%	0	0	0		33.3%	72	9	-63	-88.1%	33.3%	1034	709	-324	-31.4%
34.6%	0	0	0		34.6%	0	0	0		34.6%	7	7	0		34.6%	821	622	-199	-24.2%
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	7	7		35.8%	691	601	-90	-13.0%
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	493	536	43	8.7%
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	283	182	-101	-35.7%
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	244	151	-93	-38.3%
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	122	92	-30	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	97	28	-69	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	75	0	-75	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	10	0	-10	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-9b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	53046	53040	-6	0.0%	0.0%	46969	46973	5	0.0%	0.0%	17385	17422	37	0.2%	0.0%	2239	2022	-217	-9.7%
1.2%	49189	48096	-1093	-2.2%	1.2%	34582	32042	-2541	-7.3%	1.2%	13969	13981	12	0.1%	1.2%	1860	1861	1	0.0%
2.5%	33038	33483	445	1.3%	2.5%	31132	30181	-951	-3.1%	2.5%	13675	13681	6	0.0%	2.5%	1459	807	-651	-44.7%
3.7%	30755	31177	422	1.4%	3.7%	23411	22364	-1047	-4.5%	3.7%	12966	12970	5	0.0%	3.7%	0	0	0	
4.9%	26703	25697	-1007	-3.8%	4.9%	17043	17021	-22	-0.1%	4.9%	10049	10048	-1	0.0%	4.9%	0	0	0	
6.2%	22915	21957	-958	-4.2%	6.2%	16703	14873	-1830	-11.0%	6.2%	9208	8578	-630	-6.8%	6.2%	0	0	0	
7.4%	18664	18720	56	0.3%	7.4%	14755	14153	-602	-4.1%	7.4%	5026	5028	2	0.0%	7.4%	0	0	0	
8.6%	17950	16544	-1406	-7.8%	8.6%	12737	10987	-1750	-13.7%	8.6%	2869	2987	118	4.1%	8.6%	0	0	0	
9.9%	17925	16025	-1899	-10.6%	9.9%	11398	10466	-932	-8.2%	9.9%	1890	2880	990	52.4%	9.9%	0	0	0	
11.1%	17625	15936	-1689	-9.6%	11.1%	10899	9869	-1030	-9.5%	11.1%	1857	1739	-118	-6.3%	11.1%	0	0	0	
12.3%	17461	15855	-1606	-9.2%	12.3%	10493	9088	-1405	-13.4%	12.3%	1459	1468	9	0.6%	12.3%	0	0	0	
13.6%	15972	13600	-2372	-14.9%	13.6%	6055	6052	-3	0.0%	13.6%	1283	1243	-40	-3.2%	13.6%	0	0	0	
14.8%	12659	13066	407	3.2%	14.8%	5729	5544	-185	-3.2%	14.8%	1259	1224	-35	-2.8%	14.8%	0	0	0	
16.0%	11444	10802	-642	-5.6%	16.0%	5270	4767	-503	-9.6%	16.0%	1251	1035	-217	-17.3%	16.0%	0	0	0	
17.3%	11105	10222	-884	-8.0%	17.3%	4505	4503	-1	0.0%	17.3%	1206	965	-240	-19.9%	17.3%	0	0	0	
18.5%	9984	9695	-289	-2.9%	18.5%	4280	4285	6	0.1%	18.5%	659	657	-2	-0.3%	18.5%	0	0	0	
19.8%	9724	9021	-702	-7.2%	19.8%	4180	4142	-38	-0.9%	19.8%	213	167	-46	-21.5%	19.8%	0	0	0	
21.0%	9497	8958	-539	-5.7%	21.0%	3669	3590	-79	-2.2%	21.0%	48	47	-1		21.0%	0	0	0	
22.2%	7924	6772	-1152	-14.5%	22.2%	3346	3273	-72	-2.2%	22.2%	10	0	-10		22.2%	0	0	0	
23.5%	7401	6741	-660	-8.9%	23.5%	3001	2885	-116	-3.9%	23.5%	0	0	0		23.5%	0	0	0	
24.7%	7267	6663	-605	-8.3%	24.7%	2925	2750	-175	-6.0%	24.7%	0	0	0		24.7%	0	0	0	
25.9%	5435	6532	1097	20.2%	25.9%	2758	2191	-568	-20.6%	25.9%	0	0	0		25.9%	0	0	0	
27.2%	5428	5797	369	6.8%	27.2%	2475	2087	-388	-15.7%	27.2%	0	0	0		27.2%	0	0	0	
28.4%	5342	4992	-350	-6.6%	28.4%	1861	1103	-758	-40.7%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	5275	4391	-884	-16.8%	29.6%	1574	787	-787	-50.0%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	5208	3374	-1834	-35.2%	30.9%	1139	763	-376	-33.0%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	4943	2977	-1966	-39.8%	32.1%	1074	662	-411	-38.3%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3667	2879	-787	-21.5%	33.3%	917	594	-323	-35.2%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	2783	2778	-5	-0.2%	34.6%	654	592	-61	-9.4%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	2667	2415	-252	-9.4%	35.8%	590	348	-242	-41.0%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2603	2253	-350	-13.5%	37.0%	571	254	-318	-55.6%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2391	1947	-444	-18.6%	38.3%	477	216	-261	-54.8%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2311	1865	-446	-19.3%	39.5%	421	170	-251	-59.6%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2307	1829	-478	-20.7%	40.7%	400	158	-242	-60.6%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	1990	1726	-264	-13.3%	42.0%	369	121	-248	-67.1%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	1940	1558	-381	-19.7%	43.2%	202	43	-158	-78.5%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1906	1430	-476	-25.0%	44.4%	196	29	-167	-85.2%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1681	822	-859	-51.1%	45.7%	48	0	-48		45.7%	0	0	0		45.7%	0	0	0	
46.9%	983	696	-287	-29.2%	46.9%	39	0	-39		46.9%	0	0	0		46.9%	0	0	0	
48.1%	553	457	-95	-17.2%	48.1%	1	0	-1		48.1%	0	0	0		48.1%	0	0	0	
49.4%	534	415	-119	-22.2%	49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	498	394	-104	-20.8%	50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	290	275	-15	-5.2%	51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	160	99	-62		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	145	93	-52		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-51-9b

Colusa Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	1574	1451	-122	-7.8%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

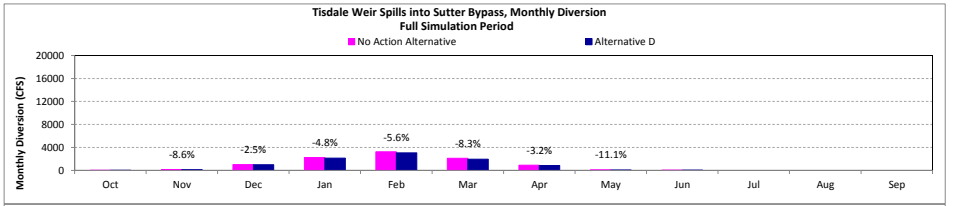
Table SW-52-9a
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Long-term Average and Average by Water Year Type

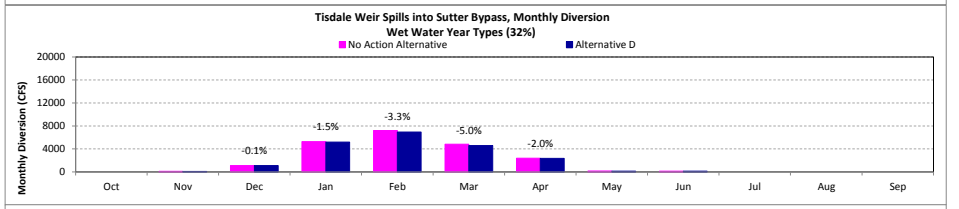
Analysis Period	Monthly Diversion (CFS) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Long-term												
Full Simulation Period[1]												
No Action Alternative	8	147	1010	2248	3231	2125	897	89	45	0	0	0
Alternative D	10	134	985	2139	3049	1948	868	79	45	0	0	0
Difference	1	-13	-25	-109	-182	-177	-29	-10	0	0	0	0
Percent Difference[3]		-8.6%	-2.5%	-4.8%	-5.6%	-8.3%	-3.2%	-11.1%				
Water Year Types[2]												
Wet (32%)												
No Action Alternative	0	98	1109	5277	7193	4834	2396	169	143	0	0	0
Alternative D	0	91	1109	5196	6954	4591	2348	145	142	0	0	0
Difference	0	-7	-1	-82	-239	-243	-48	-25	-1	0	0	0
Percent Difference			-0.1%	-1.5%	-3.3%	-5.0%	-2.0%					
Above Normal (15%)												
No Action Alternative	0	511	1096	2726	3647	3200	767	241	0	0	0	0
Alternative D	3	436	975	2393	3436	2878	716	227	0	0	0	0
Difference	3	-75	-120	-333	-211	-322	-51	-14	0	0	0	0
Percent Difference		-14.7%	-11.0%	-12.2%	-5.8%	-10.1%	-6.7%	-5.8%				
Below Normal (17%)												
No Action Alternative	49	101	1231	613	1293	265	147	0	0	0	0	0
Alternative D	54	100	1250	559	1096	182	110	0	0	0	0	0
Difference	5	-1	19	-53	-197	-83	-37	0	0	0	0	0
Percent Difference	10.5%	-1.3%	1.5%	-8.7%	-15.2%	-31.3%	-25.3%					
Dry (22%)												
No Action Alternative	0	110	1255	278	823	356	0	0	0	0	0	0
Alternative D	0	113	1209	178	642	183	0	0	0	0	0	0
Difference	0	4	-46	-100	-181	-172	0	0	0	0	0	0
Percent Difference		3.3%	-3.7%	-36.0%	-22.0%	-48.5%						
Critical (15%)												
No Action Alternative	0	0	86	67	101	3	0	0	0	0	0	0
Alternative D	0	0	84	47	87	0	0	0	0	0	0	0
Difference	0	0	-3	-20	-14	-3	0	0	0	0	0	0
Percent Difference			-3.1%	-30.0%	-14.1%	-100.0%						

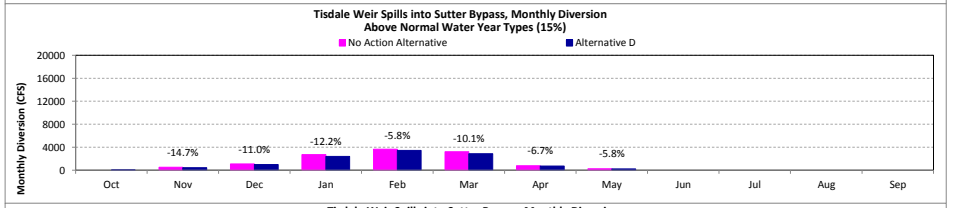
1 Based on the 82-year simulation period

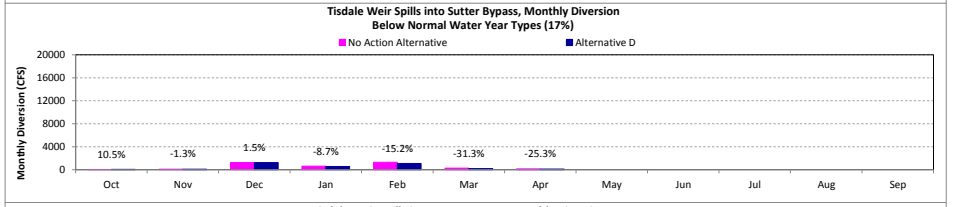
2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

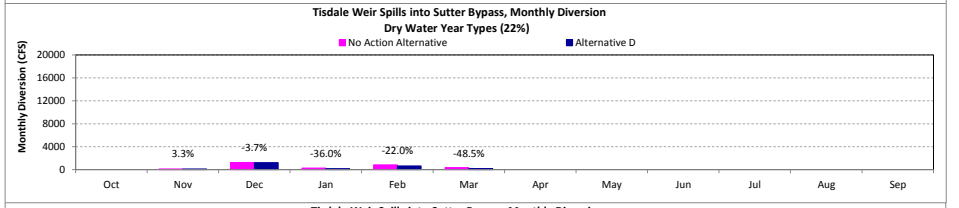
3 Relative difference of the monthly average











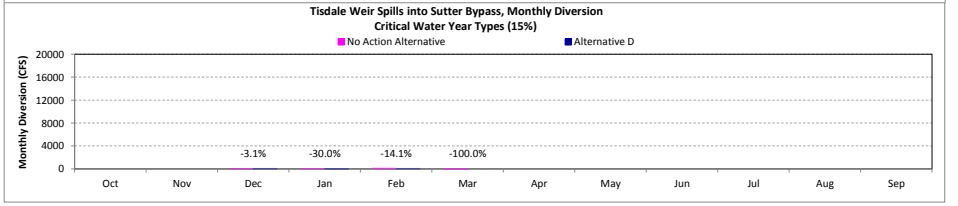


Figure SW-52-9b
Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

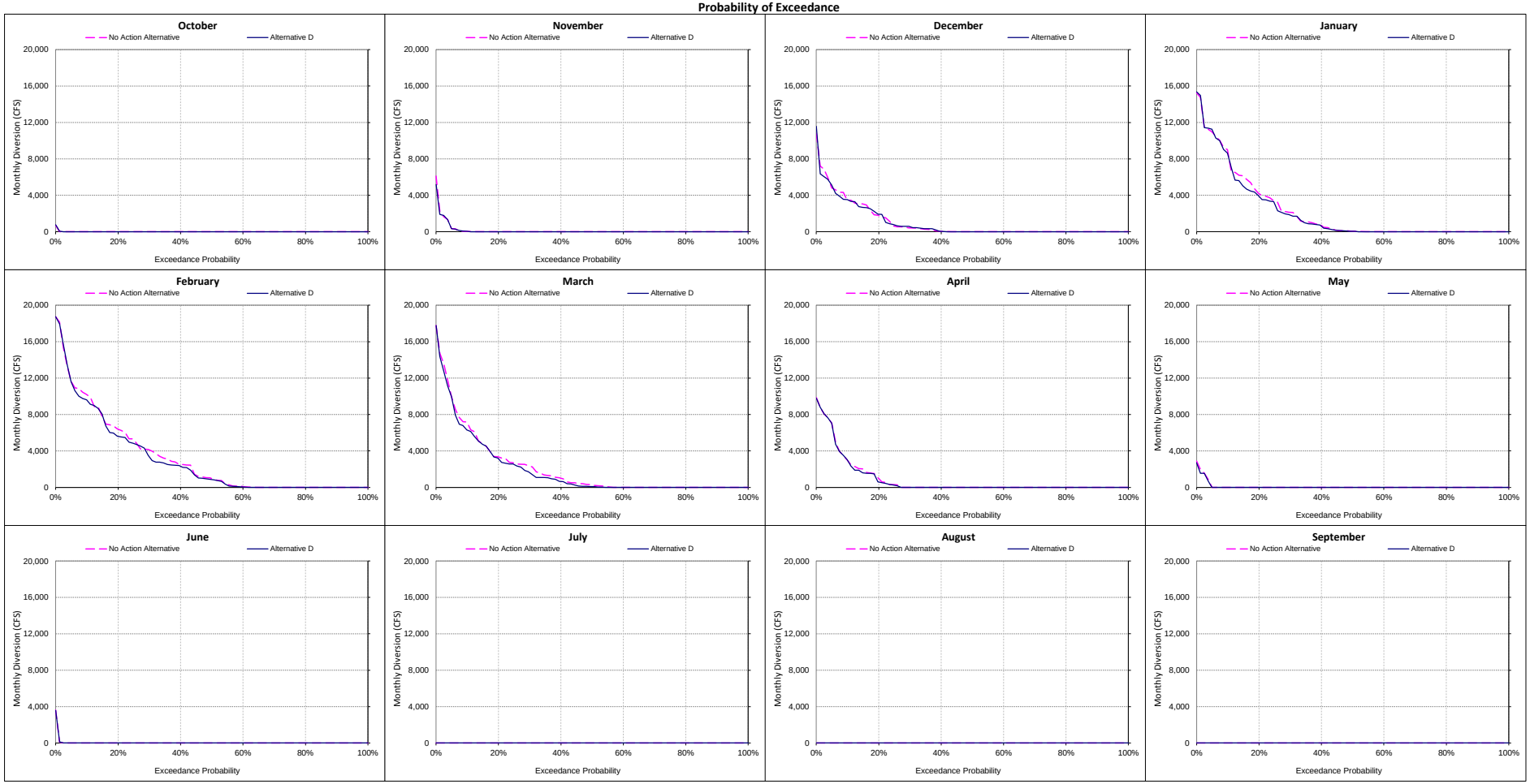


Table SW-52-9b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	685	757	72	10.5%	0.0%	6110	5180	-930	-15.2%	0.0%	10781	11568	788	7.3%	0.0%	15256	15365	109	0.7%
1.2%	0	31	31		1.2%	2168	1907	-261	-12.0%	1.2%	7215	6347	-868	-12.0%	1.2%	14749	14959	211	1.4%
2.5%	0	0	0		2.5%	1645	1775	130	7.9%	2.5%	6852	6037	-814	-11.9%	2.5%	11425	11420	-4	0.0%
3.7%	0	0	0		3.7%	1333	1332	-1	-0.1%	3.7%	5913	5741	-172	-2.9%	3.7%	11244	11362	118	1.0%
4.9%	0	0	0		4.9%	334	333	-1	-0.2%	4.9%	4807	5118	311	6.5%	4.9%	10953	11271	318	2.9%
6.2%	0	0	0		6.2%	314	268	-47	-14.8%	6.2%	4589	4197	-392	-8.5%	6.2%	10456	10283	-173	-1.7%
7.4%	0	0	0		7.4%	77	118	41	53.5%	7.4%	4335	3895	-440	-10.1%	7.4%	10022	10005	-18	-0.2%
8.6%	0	0	0		8.6%	32	65	33	102.7%	8.6%	4324	3552	-772	-17.9%	8.6%	9259	9045	-214	-2.3%
9.9%	0	0	0		9.9%	29	46	17	59.3%	9.9%	3467	3514	48	1.4%	9.9%	9014	8630	-383	-4.3%
11.1%	0	0	0		11.1%	15	0	-15	-100.0%	11.1%	3452	3337	-115	-3.3%	11.1%	6571	7018	447	6.8%
12.3%	0	0	0		12.3%	6	0	-6		12.3%	3136	3304	168	5.4%	12.3%	6512	5677	-835	-12.8%
13.6%	0	0	0		13.6%	4	0	-4		13.6%	3069	2764	-305	-9.9%	13.6%	6193	5621	-571	-9.2%
14.8%	0	0	0		14.8%	0	0	0		14.8%	3047	2657	-390	-12.8%	14.8%	6139	5026	-1113	-18.1%
16.0%	0	0	0		16.0%	0	0	0		16.0%	2933	2644	-290	-9.9%	16.0%	5743	4661	-1082	-18.8%
17.3%	0	0	0		17.3%	0	0	0		17.3%	2353	2515	162	6.9%	17.3%	5398	4458	-939	-17.4%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1860	2251	391	21.0%	18.5%	4727	4350	-377	-8.0%
19.8%	0	0	0		19.8%	0	0	0		19.8%	1805	1923	118	6.5%	19.8%	4232	3983	-249	-5.9%
21.0%	0	0	0		21.0%	0	0	0		21.0%	1607	1899	292	18.2%	21.0%	3952	3524	-428	-10.8%
22.2%	0	0	0		22.2%	0	0	0		22.2%	1526	999	-526	-34.5%	22.2%	3881	3488	-393	-10.1%
23.5%	0	0	0		23.5%	0	0	0		23.5%	1138	871	-267	-23.5%	23.5%	3723	3367	-356	-9.6%
24.7%	0	0	0		24.7%	0	0	0		24.7%	628	780	152	24.2%	24.7%	3397	3304	-93	-2.7%
25.9%	0	0	0		25.9%	0	0	0		25.9%	537	631	94	17.4%	25.9%	3236	2289	-947	-29.3%
27.2%	0	0	0		27.2%	0	0	0		27.2%	534	599	65	12.1%	27.2%	2265	2129	-136	-6.0%
28.4%	0	0	0		28.4%	0	0	0		28.4%	501	573	71	14.3%	28.4%	2209	1963	-246	-11.1%
29.6%	0	0	0		29.6%	0	0	0		29.6%	411	572	162	39.4%	29.6%	2125	1879	-246	-11.6%
30.9%	0	0	0		30.9%	0	0	0		30.9%	404	451	46	11.5%	30.9%	2108	1706	-403	-19.1%
32.1%	0	0	0		32.1%	0	0	0		32.1%	398	438	41	10.2%	32.1%	1700	1703	4	0.2%
33.3%	0	0	0		33.3%	0	0	0		33.3%	330	400	70	21.2%	33.3%	1161	1240	80	6.9%
34.6%	0	0	0		34.6%	0	0	0		34.6%	278	333	55	19.9%	34.6%	1085	983	-102	-9.4%
35.8%	0	0	0		35.8%	0	0	0		35.8%	251	319	68	26.9%	35.8%	1066	879	-187	-17.5%
37.0%	0	0	0		37.0%	0	0	0		37.0%	210	317	106	50.4%	37.0%	977	839	-138	-14.2%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	192	104	118.7%	38.3%	836	782	-54	-6.5%
39.5%	0	0	0		39.5%	0	0	0		39.5%	50	41	-9		39.5%	824	736	-88	-10.7%
40.7%	0	0	0		40.7%	0	0	0		40.7%	16	17	1		40.7%	482	384	-98	-20.3%
42.0%	0	0	0		42.0%	0	0	0		42.0%	13	0	-13		42.0%	451	323	-128	-28.4%
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	319	237	-81	-25.5%
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	174	144	-29	-16.9%
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	103	143	40	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	98	91	-7	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	96	61	-35	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	55	38	-18	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	42	34	-8	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	35	0	-35	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	12	0	-12	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	2	0	-2	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-9b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion

Probability of Exceedance

February					March					April					May				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	18736	18734	-3	0.0%	0.0%	17777	17778	1	0.0%	0.0%	9875	9783	-92	-0.9%	0.0%	2892	2726	-166	-5.8%
1.2%	18159	17958	-201	-1.1%	1.2%	14705	14384	-321	-2.2%	1.2%	8796	8798	2	0.0%	1.2%	1980	1555	-425	-21.5%
2.5%	15350	15599	248	1.6%	2.5%	13585	12772	-814	-6.0%	2.5%	8066	8089	24	0.3%	2.5%	1550	1530	-19	-1.3%
3.7%	13328	13486	158	1.2%	3.7%	11791	11163	-628	-5.3%	3.7%	7657	7660	2	0.0%	3.7%	873	674	-198	-22.7%
4.9%	11640	11619	-21	-0.2%	4.9%	9970	9961	-9	-0.1%	4.9%	7057	7057	0	0.0%	4.9%	0	0	0	
6.2%	10925	10615	-309	-2.8%	6.2%	8585	7923	-662	-7.7%	6.2%	4953	4729	-224	-4.5%	6.2%	0	0	0	
7.4%	10864	10023	-841	-7.7%	7.4%	7690	6928	-762	-9.9%	7.4%	3949	3951	3	0.1%	7.4%	0	0	0	
8.6%	10452	9750	-703	-6.7%	8.6%	7209	6801	-408	-5.7%	8.6%	3511	3516	5	0.1%	8.6%	0	0	0	
9.9%	10203	9626	-577	-5.7%	9.9%	7184	6304	-880	-12.2%	9.9%	3009	3014	5	0.2%	9.9%	0	0	0	
11.1%	9890	9131	-759	-7.7%	11.1%	6322	6129	-193	-3.1%	11.1%	2471	2354	-117	-4.7%	11.1%	0	0	0	
12.3%	8871	9002	131	1.5%	12.3%	6110	5563	-547	-9.0%	12.3%	2286	1896	-390	-17.0%	12.3%	0	0	0	
13.6%	8858	8680	-177	-2.0%	13.6%	5093	5093	0	0.0%	13.6%	2059	1887	-171	-8.3%	13.6%	0	0	0	
14.8%	7839	8084	245	3.1%	14.8%	4819	4738	-81	-1.7%	14.8%	2027	1594	-432	-21.3%	14.8%	0	0	0	
16.0%	6949	6724	-225	-3.2%	16.0%	4524	4529	4	0.1%	16.0%	1642	1538	-103	-6.3%	16.0%	0	0	0	
17.3%	6880	6016	-864	-12.6%	17.3%	3954	3959	5	0.1%	17.3%	1579	1529	-50	-3.2%	17.3%	0	0	0	
18.5%	6738	5963	-775	-11.5%	18.5%	3390	3346	-43	-1.3%	18.5%	1525	1499	-26	-1.7%	18.5%	0	0	0	
19.8%	6425	5631	-793	-12.4%	19.8%	3359	3234	-125	-3.7%	19.8%	1066	595	-471	-44.2%	19.8%	0	0	0	
21.0%	6243	5545	-697	-11.2%	21.0%	3225	2744	-481	-14.9%	21.0%	595	513	-82	-13.8%	21.0%	0	0	0	
22.2%	6027	5491	-536	-8.9%	22.2%	3184	2645	-539	-16.9%	22.2%	547	434	-113	-20.7%	22.2%	0	0	0	
23.5%	5332	4954	-379	-7.1%	23.5%	2752	2583	-169	-6.1%	23.5%	310	308	-2	-0.6%	23.5%	0	0	0	
24.7%	5325	4838	-487	-9.1%	24.7%	2704	2582	-122	-4.5%	24.7%	305	262	-43	-14.0%	24.7%	0	0	0	
25.9%	4823	4719	-104	-2.1%	25.9%	2562	2328	-234	-9.1%	25.9%	274	173	-101	-36.9%	25.9%	0	0	0	
27.2%	4221	4535	313	7.4%	27.2%	2543	2217	-326	-12.8%	27.2%	7	4	-2		27.2%	0	0	0	
28.4%	4202	4305	103	2.4%	28.4%	2531	1851	-680	-26.9%	28.4%	0	0	0		28.4%	0	0	0	
29.6%	4164	3502	-662	-15.9%	29.6%	2375	1706	-669	-28.2%	29.6%	0	0	0		29.6%	0	0	0	
30.9%	3976	2947	-1029	-25.9%	30.9%	2249	1410	-839	-37.3%	30.9%	0	0	0		30.9%	0	0	0	
32.1%	3709	2779	-930	-25.1%	32.1%	1701	1098	-603	-35.5%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3409	2774	-635	-18.6%	33.3%	1567	1086	-481	-30.7%	33.3%	0	0	0		33.3%	0	0	0	
34.6%	3214	2675	-539	-16.8%	34.6%	1365	1076	-289	-21.2%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	3121	2517	-605	-19.4%	35.8%	1304	1047	-257	-19.7%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2867	2446	-421	-14.7%	37.0%	1266	950	-316	-25.0%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2787	2414	-374	-13.4%	38.3%	1110	890	-220	-19.8%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2531	2399	-133	-5.2%	39.5%	1051	666	-385	-36.6%	39.5%	0	0	0		39.5%	0	0	0	
40.7%	2503	2194	-308	-12.3%	40.7%	935	639	-296	-31.6%	40.7%	0	0	0		40.7%	0	0	0	
42.0%	2452	2177	-275	-11.2%	42.0%	598	406	-192	-32.1%	42.0%	0	0	0		42.0%	0	0	0	
43.2%	2444	1897	-547	-22.4%	43.2%	508	373	-135	-26.6%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1429	1376	-52	-3.7%	44.4%	504	267	-237	-47.1%	44.4%	0	0	0		44.4%	0	0	0	
45.7%	1202	1040	-162	-13.5%	45.7%	416	141	-276	-66.2%	45.7%	0	0	0		45.7%	0	0	0	
46.9%	1153	1001	-153	-13.2%	46.9%	406	123	-284	-69.8%	46.9%	0	0	0		46.9%	0	0	0	
48.1%	1064	932	-132	-12.4%	48.1%	333	108	-225	-67.7%	48.1%	0	0	0		48.1%	0	0	0	
49.4%	1053	879	-174	-16.5%	49.4%	302	82	-220	-72.9%	49.4%	0	0	0		49.4%	0	0	0	
50.6%	866	831	-36	-4.1%	50.6%	217	77	-140	-64.4%	50.6%	0	0	0		50.6%	0	0	0	
51.9%	776	731	-45	-5.8%	51.9%	171	38	-133	-77.6%	51.9%	0	0	0		51.9%	0	0	0	
53.1%	754	658	-96	-12.8%	53.1%	156	18	-138	-88.4%	53.1%	0	0	0		53.1%	0	0	0	
54.3%	382	348	-34	-8.9%	54.3%	95	0	-95		54.3%	0	0	0		54.3%	0	0	0	
55.6%	274	144	-130	-47.5%	55.6%	33	0	-33		55.6%	0	0	0		55.6%	0	0	0	
56.8%	149	109	-39		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	137	90	-46		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	131	64	-67		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	53	35	-19		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	31	9	-22		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	21	0	-21		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	1	0	-1		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

Table SW-52-9b

Tisdale Weir Spills into Sutter Bypass, Monthly Diversion
Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability (%)	No Action Alternative Monthly Diversion (CFS)	Alternative D Monthly Diversion (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	3625	3568	-56	-1.6%	0.0%	0	0	0		0.0%	0	0	0		0.0%	0	0	0	
1.2%	97	118	22	22.3%	1.2%	0	0	0		1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0		8.6%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	