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.

1. Draft CALSIM II and USRDOM Simulations for a NODOS Alternative to determine days requiring "pulse protection"



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.

	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*

 Table 6C-1

 Upper Sacramento River Daily Operations Model Results Locations and Parameters

*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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			erry Spills -term Ave									
				· ·			ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear Types							
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												

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		Probability	·		December		
rcent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute	
ceedance obability	Monthly Diversion	Monthly Diversion	 Difference 	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedan Probabili		Monthly Diversion	 Difference 	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (76)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1453	-207	-12.4%
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1265	-99	-7.3%
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	1004	97	10.7%
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	723	106	17.2%
1.9%	0	0	0		4.9%	0	0	0		4.9%	377	287	-91	-24.0%
.2%	0	0	0		6.2% 7.4%	0	0	0		6.2%	150 70	218 171	68 101	45.3%
.4%	0	0	0			0	0	0		7.4%				144.7%
.6% .9%	0	0	0		8.6%	0	0	0		8.6%	6 0	157	151	
9% .1%	0	0	0		9.9% 11.1%	0	0	0		9.9% 11.1%	0	0	0	
.1%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
.6%	0	0	0		13.6%	0	0	0		13.6%	0	0	0	
.8%	0	0	0		14.8%	0	0	0		14.8%	0	0	0	
.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0	
3%	0	0	0		17.3%	0	0	ő		17.3%	0	0	0	
.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
.8%	0	0	0		19.8%	0	0	0		19.8%	0	0	0	
1.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
.2%	0	0	0		21.0%	0	0	0		21.0%	0	0	0	
.2% .5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0	
.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0	
.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
.2%	0	0	0		28.4%	0	0	0		28.4%	0	0	0	
.4%	0	0	0		29.6%	0	0	0		29.6%	0	0	0	
.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
.9%	0	0	0		32.1%	0	0	0		32.1%	0	0	0	
.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
6%	0	0	0		34.6%	0	0	0		34.6%	0	0	0	
.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0	
.0%	0	0	0		37.0%	0	0	0		37.0%	0	ő	0	
.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0	
.5%	õ	ő	ő		39.5%	ŏ	Ő	ő		39.5%	ŏ	ŏ	ő	
7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
.0%	õ	õ	ő		42.0%	ŏ	0	ő		42.0%	ŏ	ŏ	ő	
.2%	0	Ő	Ő		43.2%	0	0	Ő		43.2%	0	Ō	0	
4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0	
5.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0	
6.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0	
.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0	
.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0	
0.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
1.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
3.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
4.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0	
5.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0	
6.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
0%	0	0	0		63.0%	0	0	0		63.0%	0	0	0	
2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0	
.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
.9%	0	0	0		67.9%	0	0	0		67.9%	0	0	0	
1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0	
.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0	
.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
6.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0	
2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0	
5%	0	0	0		81.5%	0	0	0		81.5%	0	0	0	
7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0	
.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0	
.1%	0	0	0		90.1%	0	0	0		90.1%	0	0	0	
.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
.6%	0	0	0		92.6%	0	0	0		92.6%	0	0	0	
.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0	
.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	0	
	0	0	0		97.5%	0	0	0		97.5%	0	0	0	
5%			-			0	0	0		98.8%	0	0	0	
5% 8%	ō	0	0		98.8%									

		January		
Percent Exceedance	No Action Alternative	Alternative A	Absolute	Relative
Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)
(%)	(CFS)	(CFS)		
0.0%	5633 4956	5251 4949	-382 -7	-6.8% -0.1%
2.5%	4426	3391	-1035	-23.4%
3.7%	1331	1595	264	19.8%
4.9%	1271	1221	-50	-3.9%
6.2%	1147	1081	-66	-5.7%
7.4%	807	707	-99	-12.3%
8.6%	492	399	-93	-18.9%
9.9% 11.1%	408	205 93	-203	-49.8%
12.3%	135	71	-64	-63.6% -47.3%
13.6%	131	50	-81	-61.7%
14.8%	29	36	7	23.3%
16.0%	25	15	-10	-39.8%
17.3%	21	0	-21	-100.0%
18.5%	0	0	0	
19.8%	0	0	0	
21.0%	0		0	
22.2% 23.5%	0	0	0	
23.5%	0	0	0	
24.7%	0	0	0	
27.2%	0	0	0	
28.4%	Ő	Ő	Ő	
29.6%	0	0	0	
30.9%	0	0	0	
32.1%	0	0	0	
33.3%	0	0	0	
34.6%	0	0	0	
35.8% 37.0%	0	0	0	
37.0%	0	0	0	
38.3%	0	0	0	
40.7%	0	0	0	
42.0%	ŏ	õ	ő	
43.2%	0	0	Ő	
44.4%	0	0	0	
45.7%	0	0	0	
46.9%	0	0	0	
48.1%	0	0	0	
49.4%	0	0	0	
50.6%	0	0	0	
51.9% 53.1%	0	0	0	
54.3%	0	0	0	
55.6%	0	0	0	
56.8%	0	0	õ	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	0	0	0	
63.0%	0	0	0	
64.2%	0	0	0	
65.4% 66.7%	0	0	0	
67.9%	0	0	0	
69.1%	0	0	0	
70.4%	0	0	0	
71.6%	0	0	0	
72.8%	0	0	Ō	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0% 80.2%	0	0	0	
80.2%	0	0	0	
82.7%	0	0	0	
84.0%	0	0	0	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	Ő	Ő	Ő	
88.9%	0	0	0	
90.1%	Ō	Ō	Ō	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
00.001				
98.8% 100.0%	0	0	0	

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

		February					March		FIUDADIII	y of Exceedance		April					May		
Percent	No Action Alternative		Absolute		Percent	No. Antina Alternative	Alternative A	Absolute		Percent	No Action Alternative		Absolute		Percent	No. A sting Alternative		Absolute	
Exceedance		Alternative A	- Difference	Relative	Exceedance	No Action Alternative		Difference	Relative	Exceedance		Alternative A	 Absolute Difference 	Relative	Exceedance	No Action Alternative	Alternative A	- Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 12366	(CFS)	0	0.00/	<u>(%)</u> 0.0%	(CFS) 7360	(CFS) 7359	0	0.00/	<u>(%)</u> 0.0%	(CFS)	(CFS)	0	0.0%	<u>(%)</u> 0.0%	(CFS)	(CFS)	0	
1.2%	12366	12366 6641	105	0.0%	1.2%	3196	2800	-395	0.0%	1.2%	608 285	608 284	-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	Ő	0.0%	3.7%	0	0	0	22.070	3.7%	0	0	Ő	
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%	888	682 561	-206 -202	-23.2%	9.9%	91 49	92 49	1	0.6%	9.9%	0	0	0		9.9%	0	0	0	
11.1% 12.3%	763 391	293	-202	-26.5% -25.2%	11.1% 12.3%	49	49	0	-0.1%	11.1% 12.3%	0	0	0		11.1% 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%	ő	õ	õ		14.8%	0	0	õ		14.8%	0	0	ŏ	
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% 23.5%	0	0	0		22.2% 23.5%	0	0	0		22.2% 23.5%	0	0	0		22.2% 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%	ō	ō	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	ō	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% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0		33.3%	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	ő	Ő		37.0%	ŏ	0	õ		37.0%	0	0	0		37.0%	ő	0	õ	
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% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 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	Ő		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% 55.6%	0	0	0		54.3% 55.6%	0	0	0		54.3% 55.6%	0	0	0		54.3% 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%	Ő	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	ō	Ō	Õ		59.3%	ō	0	0		59.3%	Ō	0	0		59.3%	Ō	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% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		65.4% 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	Ō	0		70.4%	0	0	Ō		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% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0	_	76.5%	0	0	0		76.5%	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%	Ő	0	0		80.2%	0	0	0		80.2%	0	0	0	
81.5%	ō	ō	0		81.5%	ō	ō	0		81.5%	ō	0	0		81.5%	ō	ō	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% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	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	õ		91.4%	0	0	0	
92.6%	Ő	ő	Ő		92.6%	ő	0	0		92.6%	Ő	Ō	Ō		92.6%	Ő	Ő	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% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0	
98.8%	0.0	0.0	0.0		98.8%	0.0	0.0	0.0		98.8%	0.0	0.0	0.0		98.8%	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		100.0%	0.0	0.0	0.0	

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

Percent Exceedance Probability

Probability (%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4%

6.2% 7.4% 8.6% 9.9% 11.1% 12.3% 13.6% 14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

22.2% 23.5% 24.7% 25.9% 29.6% 30.9% 32.1% 33.3% 34.6% 35.8% 35.8% 35.8% 35.8% 37.0% 38.3% 39.5% 40.7% 43.2% 44.4%

 $\begin{array}{c} 46,9\%\\ 48,1\%\\ 49,4\%\\ 50,6\%\\ 51,0\%\\ 51,0\%\\ 53,1\%\\ 54,3\%\\ 55,6\%\\ 55,6\%\\ 55,6\%\\ 55,0\%\\ 61,7\%\\ 64,2\%\\ 64,2\%\\ 66,7\%\\ 64,2\%\\ 66,7\%\\ 63,0\%\\ 64,1\%\\ 71,6\%\\ 72,2\%\\ 74,1\%\\ 75,3\%\\ 76,5\%\\ 71,4\%\\ 72,8\%\\ 79,0\%\\ 80,2\%\\ 81,5\%\\ 82,7\%\\ 84,0\%\\ 85,2\%\\ 84,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 84,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 86,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 86,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 86,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 86,4\%\\ 87,7\%\\ 84,0\%\\ 85,2\%\\ 86,4\%\\ 81,1\%\\ 81$

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

No Action Alternative

Monthly Diversion (CFS)

0

0 0 0

0 0 0

0.0

		June					July		
Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%
(%)	(CFS)	(CFS)	(CFS)	Billerende (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (/
0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0	
7.4%	0	0	0		7.4%	0	0	0	
8.6%	0	0	0		8.6%	Ő	0	0	
9.9%	ŏ	ŏ	0		9.9%	õ	õ	0	
	0	0	0		9.976			0	
11.1%	0	0	0		11.1%	0	0		
12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	0	0	0	
14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0	
17.3%	0	0	0		17.3%	0	0	0	
18.5%	0	0	0		18.5%		0	0	
16.5%	0	0	0		18.5%	0	0	0	
19.8%	0	0	0		19.8%	0	0	0	
21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	ō		32.1%	ō	0	0	
33.3%	0	0	0		33.3%	Ő	0	0	
33.370	0	0	0		33.370	0	0	0	
34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0	
39.5%	0	0	0		39.5%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0	
42.0%	ŏ	ŏ	ő		42.0%	õ	0	0	
43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		43.2%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0	
50.6%	Ő	Ő	0		50.6%	0	Ő	0	
51.9%	0	0	0		51.9%	0	0	0	
	0	0	0		51.9%		0	0	
53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	Ō	0		59.3%	ō	0	0	
60.5%	0	0	0		60.5%	Ő	0	0	
00.3%	0	0	0		00.3%	0	0	0	
61.7%	0	0	0		61.7%		0	0	
63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0	
67.9%	Ō	Ō	Ō		67.9%	0	Ō	0	
69.1%	0	0	0		69.1%	0	0	0	
		0	0						
70.4%	0				70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0	
76.5%	Ō	Ō	ō		76.5%	ō	ō	0	
77.8%	0	0	0		77.8%	Ő	0	0	
	0	0	0			0	0	0	
79.0%					79.0%				
80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0	
85.2%	Ő	Ő	0		85.2%	ő	Ő	0	
86.4%	0	0	0		86.4%	0	0	0	
00.4%		0	0		00.4%				
87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0	
92.6%	Ő	Ő	0		92.6%	Ő	Ő	0	
93.8%	0	0	0		93.8%		0	0	
						0			
95.1%	0	0	0		95.1%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0	
98.8%	0	0	0		98.8%	0	0	0	

August		<u> </u>			September		
Alternative A	Absolute	Relative	Percent Exceedance	No Action Alternative	Alternative A	Absolute	Relative
Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)
(CFS) 0	0		<u>(%)</u> 0.0%	(CFS) 0	(CFS) 0	0	
0	0		1.2%	0	0	Ō	
0	0		2.5%	0	0	0	
0	0		3.7%	0	0	0	
0	0		4.9%	0	0	0	
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0	0		53.1%	0	0	0	
0	0		54.3%	0	0	0	
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		Long	-term Ave	rage and A								
					м	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lon	ig-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 Ye	ear Types ⁱ							
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%)			0.170	100.070								
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	U	U	9 7.2%	U	U	U	U	U	U	U	U	J
Critical (15%)			1.270									
No Action Alternative	0	0	0	0	0	0	0	0	0	0	0	0
Alternative A	0	0	0 0	0 0	õ	0	0 0	o	0	õ	õ	0
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	U	0	0	U	J	J	U	J	J	U	J	0
1 Based on the 82-year simulation period												





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

Relative Difference (%)

-3.1% -7.5% -5.2% -9.2% -14.6% 22.4% 12.9% 0.9% 13.1% -28.9% -11.2% -15.2% -9.8% -12.2% -69.2% -37.6% -11.9% -3.1% 42.5% 52.4%

Trans Mate Mate <t< th=""><th></th><th></th><th>October</th><th></th><th></th><th></th><th></th><th>November</th><th></th><th>TTODADI</th><th>of Exceedance</th><th></th><th>December</th><th></th><th></th><th></th><th></th><th>January</th><th></th><th></th></t<>			October					November		TTODADI	of Exceedance		December					January		
		No Action Alternative		Absolute			No Action Alternative		Absolute			No Action Alternative	Alternative A	Absolute			No Action Alternative		Absoluto	-
									Difference											
	Probability				Difference (%)					Difference (%)		Monthly Diversion			Difference (%)		Monthly Diversion			D
	(%)					(%)					(%)	(CFS)			0.00/	(%)				
	1.2%					1.2%					1.2%	1009	1094			1.2%		3651	-170	
	4.9%					4.9%					4.9%	494	523	29		4.9%				
	6.2%					6.2%					6.2%	351	437	86		6.2%		1255	230	
	7.4%					7.4%					7.4%	74	229		208.8%	7.4%		1133		
		•	0	0				0	0		9.9%				28.3%				78	
											12.3%							406		
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Table SW-50-3b Moulton Weir Spills into Sutter Bypass, Monthly Diversion Probability of Exceedance

-		February					March					April					May		
Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute	
Exceedance			Difference	Relative	Exceedance	Monthly Diversion		Difference	Relative	Exceedance			- Difference	Relative	Exceedance		Monthly Diversion	Difference	Relative
Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability (%)	(CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability (%)	Monthly Diversion	(CFS)	(CFS)	Difference (%)
<u>(%)</u> 0.0%	9355	9340	-15	-0.2%	0.0%	6639	6639	0	0.0%	<u>(%)</u> 0.0%	1015	1016	0	0.0%	0.0%	(CFS)	(0F3)	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	Ő	
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% 7.4%	1559 1482	1438 1358	-122 -124	-7.8%	6.2% 7.4%	899 664	738 496	-161 -167	-17.9% -25.2%	6.2% 7.4%	40 36	40 36	0	0.0%	6.2% 7.4%	0	0	0	
8.6%	1482	1358	-124	-8.4%	8.6%	469	496	-167	-25.2%	8.6%	36	36	0	0.3%	8.6%	0	0	0	
9.9%	976	920	-56	-5.7%	9.9%	409	409	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	ō	õ	
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% 19.8%	239 236	238 195	-1 -42	-0.4% -17.6%	18.5% 19.8%	1	1	0		18.5% 19.8%	0	0	0		18.5% 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%	õ	0	0	
23.5%	38	27	-11	-29.7%	23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	Ő	
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% 30.9%	0	0	0		29.6% 30.9%	0	0	0		29.6% 30.9%	0	0	0		29.6% 30.9%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	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%	ŏ	ō	0		34.6%	Ő	Ő	0		34.6%	ŏ	õ	õ		34.6%	ŏ	ő	ő	
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% 42.0%	0	0	0		40.7% 42.0%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0		42.0% 43.2%	0	0	0		42.0% 43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		43.2 %	0	0	0		43.2 %	0	0	0	
45.7%	ő	0	Ő		45.7%	0	Ő	0		45.7%	ŏ	Ő	Ő		45.7%	ŏ	0	ő	
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% 54.3%	0	0	0		53.1% 54.3%	0	0	0		53.1% 54.3%	0	0	0		53.1% 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% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 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%	õ	õ	0		69.1%	0	0	0		69.1%	õ	0	0		69.1%	õ	ő	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% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 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	ō	0		81.5%	0	0	0		81.5%	0	ō	Ō		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% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 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	õ		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
92.6%	Ő	Ō	0		92.6%	Ő	Ő	0		92.6%	Ő	Ő	0	_	92.6%	Ő	Ő	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% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0	
98.8%	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	
100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0	

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

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

Percent Ecceedance Probability 1501 1295 1275 1275 1275 1275 1275 12.376 12.376 12.376 12.376 13.676 11.175 13.676 13.676 13.676 13.676 13.676 13.676 13.576 13.676 13.576 14.576 15.576 15.578 15.578 15.578 15.578 15.578 15.578 15.578 15.578 15.578 15.578 15.578 15.578 17.278 15.578 15.578 17.376 17.778 15.578 15.578 1

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

		Long-	term Ave	rage and A	verage b	Water Ye	ar Type					
						onthly Div		S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear 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%							

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		Probability of	Exceedance		December					January		
Percent	No. Antina Alternative		Absolute		Percent	No. Antina Alternativa	Alternative A	Absolute		Percent	No. A stine Alternative		Absolute		Percent	No. Antion Alternative		Absolute	
Exceedance	No Action Alternative	Alternative A	- Difference	Relative	Exceedance	No Action Alternative		Difference	Relative	Exceedance	No Action Alternative	Alternative A	 Absolute Difference 	Relative	Exceedance	No Action Alternative	Alternative A	- Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
(%) 0.0%	(CFS) 559	(CFS) 779	221	20.5%	<u>(%)</u> 0.0%	(CFS)	(CFS)	-435	0.00/	<u>(%)</u> 0.0%	(CFS)	(CFS)	1226	6.2%	<u>(%)</u> 0.0%	(CFS)	(CFS)	-513	4.50/
1.2%	559	0	221	39.5%	1.2%	7065 1342	6630 1187	-435	-6.2% -11.6%	1.2%	19690 15339	20916 14369	-969	-6.3%	1.2%	34396 30467	33883 30019	-513	-1.5% -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	ő		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% 12.3%	0	0	0		11.1% 12.3%	0	0	0		11.1% 12.3%	3381 3364	3750 3173	370 -191	10.9% -5.7%	11.1% 12.3%	11956 10544	10246 10093	-1711 -451	-14.3% -4.3%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	2794	-468	-14.3%	13.6%	10025	9434	-451	-4.3%
14.8%	0	0	0		14.8%	0	0	0		14.8%	2761	2734	-408	-1.5%	14.8%	9226	9282	-590	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% 25.9%	0	0	0		24.7% 25.9%	0	0	0	_	24.7% 25.9%	444 338	328 327	-116 -12	-26.0% -3.4%	24.7% 25.9%	3793 3788	3525 2720	-269 -1068	-7.1% -28.2%
25.9%	0	0	0		25.9%	0	0	0		25.9%	338 270	327	-12	-3.4%	25.9%	3788	2720	-1068	-28.2%
28.4%	0	0	0		28.4%	0	0	0		28.4%	167	244 243	-26	-9.7%	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%	Ő	Ő	Ő		30.9%	0	Ő	Ō		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% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	283 244	182 149	-101 -95	-35.6% -38.9%
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	122	86	-95	-38.9%
40.7%	0	0	0		40.7%	0	0	0		40.7 %	0	0	0		42.0%	97	21	-76	
43.2%	0	0	ő		43.2%	ő	ő	0		43.2%	0	0	Ő		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% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 51.9%	0	0	0	
51.9%	0	0	0		53.1%	0	0	0		53.1%	0	0	0		51.9%	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	õ		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% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 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%	Ō	Ō	0		67.9%	Ő	Ő	0		67.9%	0	Ō	0		67.9%	Ó	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% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	U	0	0	_
75.3%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		75.3%	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%	Ő	0	0		79.0%	0	0	0		79.0%	ő	0	0	
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0	0		80.2%	Ó	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% 87.7%	0	0	0	
87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7%	0	0	0	
88.9% 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 O	0	0	
93.8%	0	0	0		93.8%	0	0	ő		93.8%	0	0	0		93.8%	0	0	Ő	
95.1%	0	0	0		95.1%	0	0	0	_	95.1%	0	0	Ō		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	
		0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
98.8% 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			, <u></u>		April					May		
Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	- Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	- Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	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 17950	20647 18007	1982 57	10.6%	7.4%	14755 12737	14311 11006	-445	-3.0% -13.6%	7.4%	5026 2869	5025 3401	0 533	0.0% 18.6%	7.4%	0	0	0	
8.6% 9.9%	17925	16653	-1272	0.3%	9.9%	11398	10497	-1730 -901	-7.9%	8.6% 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%	ŏ	ŏ	õ	
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 4180	4283	3	0.1%	18.5%	659	660	1	0.2%	18.5%	0	0	0	
19.8% 21.0%	9724 9497	9024 8308	-699 -1189	-7.2% -12.5%	19.8%	3669	4125 3644	-55 -25	-1.3% -0.7%	19.8%	213 48	212 46	-1 -2	-0.3%	19.8% 21.0%	0	0	0	
21.0%	7924	7147	-1169	-12.5%	21.0% 22.2%	3346	3345	-25	-0.7%	21.0% 22.2%	48	40	-10		21.0%	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	ő		24.7%	0	Ő	0	
25.9%	5435	5660	226	4.2%	25.9%	2758	2426	-333	-12.1%	25.9%	Ő	0	0		25.9%	Ő	Ō	Ő	
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% 34.6%	3667 2783	2721 2289	-945 -494	-25.8% -17.8%	33.3% 34.6%	917 654	593 591	-324 -62	-35.3% -9.5%	33.3% 34.6%	0	0	0		33.3% 34.6%	0	0	0	
34.6%	2667	2253	-494 -414	-17.8%	35.8%	590	250	-62	-9.5%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2603	2138	-465	-17.9%	37.0%	590	212	-360	-63.0%	35.8%	0	0	0		37.0%	0	0	0	
38.3%	2391	1950	-403	-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%	õ	0	ŏ		39.5%	ŏ	ŏ	õ	
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% 50.6%	534 498	414 371	-120 -127	-22.4% -25.5%	49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 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	-0.070	53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0	0	
54.3%	145	92	-53		54.3%	ō	0	ō		54.3%	õ	0	0		54.3%	0	0	Ō	
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% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 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%	ő	ő	ŏ		65.4%	0	0	Ő		65.4%	Ő	0	Ő		65.4%	ő	ő	Ő	
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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6%	0	0	0		71.6% 72.8%	0	0	0	
72.8%	0	0	0		72.0%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		85.4%	0	0	0		86.4%	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	ŏ	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	Ō		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% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0	
98.8%	0.0	0.0	0		98.8%	0.0	0.0	0.0		98.8%	0.0	0	0.0		98.8%	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		100.0%	0.0	0.0	0.0	

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

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

June

Percent Exceedance Probability

(%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9% 11.1% 12.3% 13.6% 14.8% 16.0% 14.8% 16.0% 17.3%

22.2% 23.5% 24.5% 25.9% 25.9% 25.9% 25.9% 26.3% 25.9% 26.3% 25.9% 27.9% 25.9% 26.9% 27.9%

86.4% 87.7% 88.9% 90.1%

90.1% 91.4% 92.6% 93.8% 95.1% 96.3% 97.5% 98.8% 100.0%

No Action Alternative Alternative Alternatinte Alternative Alternative Alternatinte Alternative Al	No Action Alternative Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0	Alternative A Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0	Absolute Difference (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Relative Difference (%)	Percent Exceedance Probability (%) 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9% 11.1%	No Action Alternative Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alternative A Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Absolute Difference (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Relative Difference (%)
Monthly Diversion Monthly Diversion Difference (CFS) Notative (CFS) Probability 0	Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Difference (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Probability (%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9%	Monthly Diversion (CFS) 0	Monthly Diversion (CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference (CFS) 0 0 0 0 0 0 0 0 0 0 0 0	
(CFS) (CFS) <th< th=""><th>(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th>(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th></th><th></th><th>(%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9%</th><th>(CFS) 0 0 0 0 0 0 0 0 0 0 0 0</th><th>(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th>0 0 0 0 0 0 0 0</th><th></th></th<>	(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			(%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9%	(CFS) 0 0 0 0 0 0 0 0 0 0 0 0	(CFS) 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
$\begin{array}{c ccccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9%	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9%	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0		3.7% 4.9% 6.2% 7.4% 8.6% 9.9%	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0		4.9% 6.2% 7.4% 8.6% 9.9%	0 0 0 0 0	0 0 0 0 0	0 0 0 0	
0 0 0 6.2% 0 0 0 7.4% 0 0 0 8.6% 0 0 0 9.9% 0 0 0 11.1% 0 0 0 12.3% 0 0 0 13.6%		0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		6.2% 7.4% 8.6% 9.9%	0 0 0 0	0 0 0 0	0	
0 0 7.4% 0 0 0 8.6% 0 0 0 9.9% 0 0 0 11.1% 0 0 0 12.3% 0 0 0 13.6%		0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0		7.4% 8.6% 9.9%	0 0 0	0 0 0	0	
0 0 0 86% 0 0 0 99% 0 0 0 11.1% 0 0 0 12.3% 0 0 0 13.6%		0 0 0 0 0 0 0 0	0 0 0 0 0		8.6% 9.9%	0	0	0	
0 0 0 9.9% 0 0 0 0 11.1% 0 0 0 0 12.3% 0 0 0 0 13.6%	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0		9.9%	0	0		
0 0 0 9.9% 0 0 0 0 11.1% 0 0 0 0 12.3% 0 0 0 0 13.6%	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0		9.9%			0	
0 0 0 12.3% 0 0 0 13.6%	0 0 0 0 0 0 0	0 0 0 0	0 0 0		11.1%	0	-		
0 0 0 13.6%	0 0 0 0 0 0	0 0 0 0	0				0	0	
	0 0 0 0 0	0 0 0	0		12.3%	0	0	0	
0 0 0 14.8%	0 0 0 0	0			13.6%	0	0	0	
	0 0 0	0			14.8%	0	0	0	
0 0 0 16.0%	0		0		16.0%	0	0	0	
0 0 0 17.3%	0		0		17.3%	0	0	0	
0 0 0 18.5%		0	0		18.5%	0	0	0	
0 0 0 19.8%	0	0	0		19.8%	0	0	0	
0 0 0 21.0%		0	0		21.0%	0	0	0	
0 0 0 22.2%	0	0	0		22.2%	0	0	0	
0 0 0 23.5%	0	0	0		23.5%	0	0	0	
0 0 0 24.7%	0	0	0		24.7%	0	0	0	
0 0 0 25.9%	0	0	0		25.9%	0	0	0	
0 0 0 27.2%	0	0	0		27.2%	0	0	0	
0 0 0 28.4%	0	0	0		28.4%	0	0	0	
0 0 0 29.6%	0	0	0		29.6%	0	0	0	
0 0 0 30.9%	0	0	0		30.9%	0	0	0	
0 0 0 32.1%	0	0	0		32.1%	0	0	0	
0 0 0 33.3%	0	0	0		33.3%	0	0	0	
0 0 0 34.6%	0	0	0		34.6%	0	0	0	
0 0 0 35.8%	0	0	0		35.8%	0	0	0	
0 0 0 37.0%	0	0	0		37.0%	0	0	0	
0 0 0 38.3%	0	0	0		38.3%	0	0	0	
0 0 0 39.5%	0	0	0		39.5%	0	0	0	
0 0 0 40.7%	0	0	0		40.7%	0	0	0	
0 0 0 42.0%	0	0	0		42.0%	0	0	0	
0 0 0 43.2%	0	0	0		43.2%	0	0	0	
0 0 0 44.4%	0	0	0		44.4%	0	0	0	
0 0 0 45.7%	0	0	0		45.7%	0	0	0	
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		0	0		48.1%		0	0	
0 0 0 49.4% 0 0 0 50.6%	0	0	0		49.4%	0	0	0	
	0	0	0		50.6%	0	0	0	
0 0 0 51.9% 0 0 0 53.1%	0	0	0		51.9% 53.1%	0	0	0	
0 0 0 53.1%	0	0	0		54.3%	0	0	0	
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0 0 0 56.8%	0	0	0		56.8%	0	0	0	
0 0 0 58.0%	0	0	0		58.0%	0	0	0	
0 0 0 59.3%	0	0	ŏ		59.3%	0	õ	0	
0 0 0 60.5%	0	0	0		60.5%	0	0	0	
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0 0 0 70.4%	0	0	0		70.4%	0	0	0	
0 0 0 71.6%	0	0	0		71.6%	0	0	0	
0 0 0 72.8%	0	0	0		72.8%	0	0	0	
0 0 0 74.1%	0	0	0		74.1%	0	0	0	
0 0 0 75.3%	0	0	0		75.3%	0	0	0	
0 0 0 76.5%	0	0	0		76.5%	0	0	0	
0 0 0 77.8%	0	0	0		77.8%	0	0	0	
0 0 0 79.0%	0	0	0		79.0%	0	0	0	
0 0 0 80.2%	0	0	0		80.2%	0	0	0	
0 0 0 81.5%	0	0	0		81.5%	0	0	0	
0 0 0 82.7%	0	0	0		82.7%	0	0	0	
0 0 0 84.0%	0	0	0		84.0%	0	0	0	
0 0 0 85.2%	0	0	0		85.2%	0	0	0	
0 0 0 86.4% 0 0 0 87.7%	0	0	0		86.4% 87.7%	0	0	0	
	0	0	0			0	0		
0 0 0 88.9%	0	0	0		88.9%	0	0	0	
0 0 0 90.1% 0 0 0 91.4%	0	0	0		90.1%	0	0	0	
	0	0	0		91.4%	0	0	0	
0 0 0 92.6% 0 0 0 93.8%	0	0	0		92.6% 93.8%	0	0	0	
					93.8%	0	0	0	
0 0 0 95.1% 0 0 0 96.3%	0	0	0		95.1%	0	0	0	
	0	0			96.3%	0	0	0	
0 0 0 97.5% 0 0 0 98.8%	0	0	0		97.5% 98.8%	0	0	0	
0.0 0.0 0.0 100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	
0.0 0.0 100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

						s, Monthly						
		Long-	Ler III AVE	age and A		y Water Ye		C)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	onthly Div Mar	Apr	5) Mav	Jun	Jul	Aug	e
Analysis Periou	UCI	NOV	Dec			Mar	Apr	way	Jun	Jui	Aug	Sep
Full Simulation Period ¹				LUI	ng-term							
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	5	-10.3%	-2.7%	-3.8%	-5.4%	-7.3%	-2.8%	-4.4%	-	0	0	0
		-10.376	-2.170		ear Types		-2.070	-4.470				
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	Ŭ		-1.3%	0.1%	-2.0%	-3.8%	-1.4%		-	0	0	0
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%						

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		Probability of	f Exceedance		December			-		January		
Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute		Percent	No Action Alternative	Alternative A	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	- Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	- Difference	Relative
Probability (%)	(CFS)	(CFS)	(CFS)	Difference (%)	Probability (%)	Monthly Diversion (CFS)	(CFS)	(CFS)	Difference (%)		(CFS)	(CFS)	(CFS)	Difference (%)	Probability (%)	(CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)
0.0%	685	912	227	33.2%	0.0%	6110	5310	-800	-13.1%	<u>(%)</u> 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% 3.7%	0	0	0		2.5% 3.7%	1645 1333	1439 1341	-205 8	-12.5% 0.6%	2.5% 3.7%	6852 5913	6257 5440	-594 -474	-8.7% -8.0%	2.5% 3.7%	11425 11244	11537 11417	113 173	1.0% 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 29	78 37	46 8	143.3%	8.6%	4324	3705	-620 90	-14.3%	8.6%	9259	8768 8543	-492 -470	-5.3%
9.9% 11.1%	0	0	0		9.9% 11.1%	15	0	-15	28.1% -100.0%	9.9% 11.1%	3467 3452	3557 3514	62	2.6% 1.8%	9.9% 11.1%	9014 6571	6919	-470	-5.2% 5.3%
12.3%	0	0	0		12.3%	6	0	-6	-100.078	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% 17.3%	0	0	0		16.0% 17.3%	0	0	0		16.0% 17.3%	2933 2353	2640 2312	-293 -41	-10.0% -1.7%	16.0% 17.3%	5743 5398	4655 4541	-1088 -857	-18.9% -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%	ō	Ō	0		19.8%	0	ō	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% 23.5%	0	0	0		22.2% 23.5%	0	0	0		22.2% 23.5%	1526 1138	1025 871	-501 -267	-32.9% -23.4%	22.2% 23.5%	3881 3723	3500 3364	-381 -358	-9.8% -9.6%
23.5%	0	0	0		24.7%	0	0	0		23.3%	628	777	149	23.7%	23.5%	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% 30.9%	0	0	0		29.6% 30.9%	0	0	0		29.6% 30.9%	411 404	573 455	163 50	39.6% 12.4%	29.6% 30.9%	2125 2108	2004 1882	-121 -226	-5.7% -10.7%
30.9%	0	0	0		30.9%	0	0	0		32.1%	398	439	50 41	10.3%	30.9%	1700	1700	-226	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% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 37.0%	251 210	319 316	68 106	26.9% 50.2%	35.8% 37.0%	1066 977	872 834	-193 -143	-18.1% -14.6%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	182	94	107.6%	38.3%	836	734	-143	-12.2%
39.5%	0	0	0		39.5%	0	0	0		39.5%	50	41	-9	107.076	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% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	319 174	230 144	-88 -29	-27.7%
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	103	143	40	-16.9%
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% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	55 42	33 30	-22 -12	
50.6%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		50.6%	42	0	-12	_
53.1%	0	0	0		53.1%	0	0	0		53.1%	Ő	0	Ő		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% 58.0%	0	0	0		56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	ő		59.3%	ő	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% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 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% 70.4%	0	0	0		69.1% 70.4%	0	0	0		69.1% 70.4%	0	0	0		69.1% 70.4%	0	0	0	
70.4%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		70.4%	0	0	0	
72.8%	Ő	Ő	0		72.8%	Ő	Ő	0		72.8%	Ő	Ő	0		72.8%	Ő	0	0	
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0	0	
75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	ő	0	ő	
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% 84.0%	0	0	0		82.7% 84.0%	0	0	0		82.7% 84.0%	0	0	0		82.7% 84.0%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0% 85.2%	0	0	0		84.0%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	õ	õ	0		86.4%	Ő	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% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	Ő	0 0	0		93.8%	õ	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% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0	
98.8%	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	
100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0	

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

		February			-		March			, <u></u>		April					Мау		
Percent	No Action Alternative	Alternative A	Absolute	Deletive	Percent	No Action Alternative	Alternative A	Absolute	Dalativa	Percent	No Action Alternative	Alternative A	Absolute	Deletive	Percent	No Action Alternative	Alternative A	Absolute	Deletive
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (A)	(%)	(CFS)	(CFS)	(CFS)	Difference (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	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% 3.7%	15350 13328	15598 13486	247 158	1.6% 1.2%	2.5% 3.7%	13585 11791	12770 11229	-815 -562	-6.0% -4.8%	2.5% 3.7%	8066 7657	8089 7658	24	0.3%	2.5% 3.7%	1550 873	1528 649	-22 -223	-1.4% -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	049	-223	=23.076
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% 11.1%	10203 9890	9767 9000	-436 -890	-4.3% -9.0%	9.9% 11.1%	7184 6322	6422 6322	-762 0	-10.6% 0.0%	9.9% 11.1%	3009 2471	3017 2533	8 63	0.3% 2.5%	9.9% 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%	ő	0	ő	
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% 18.5%	6880 6738	6099 5942	-782 -796	-11.4% -11.8%	17.3% 18.5%	3954 3390	3949	-5 -4	-0.1% -0.1%	17.3% 18.5%	1579 1525	1530 1528	-49	-3.1% 0.2%	17.3% 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% 25.9%	5325 4823	4955 4954	-369 131	-6.9% 2.7%	24.7% 25.9%	2704 2562	2534 2470	-170 -92	-6.3% -3.6%	24.7% 25.9%	305 274	302 170	-2	-0.7% -37.9%	24.7% 25.9%	0	0	0	
27.2%	4221	4085	-137	-3.2%	27.2%	2543	2233	-310	-12.2%	27.2%	7	4	-104	-31.370	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% 32.1%	3976 3709	2712 2674	-1264 -1034	-31.8% -27.9%	30.9% 32.1%	2249 1701	1371 1258	-878 -443	-39.0% -26.1%	30.9% 32.1%	0	0	0		30.9% 32.1%	0	0	0	
33.3%	3409	2520	-1034	-26.1%	33.3%	1567	1256	-443	-20.1%	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	ő		34.6%	ő	0	ő	
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% 39.5%	2787	2321	-466	-16.7%	38.3% 39.5%	1110 1051	788 741	-322 -310	-29.0%	38.3%	0	0	0		38.3% 39.5%	0	0	0	
40.7%	2531 2503	2246 2197	-286 -305	-11.3% -12.2%	40.7%	935	741	-208	-29.5% -22.2%	39.5% 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%	õ	0	ő		42.0%	0	ő	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% 46.9%	1202	1040 988	-162 -166	-13.5% -14.4%	45.7% 46.9%	416 406	267	-149 -265	-35.9% -65.2%	45.7% 46.9%	0	0	0		45.7% 46.9%	0	0	0	
48.1%	1064	988	-100	-14.4%	48.1%	333	129	-205	-65.2%	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%	õ	0	0		49.4%	0	õ	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% 54.3%	754 382	657 347	-97 -35	-12.9% -9.1%	53.1% 54.3%	156 95	83 42	-73 -53	-47.0%	53.1% 54.3%	0	0	0		53.1% 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	ō	0		56.8%	õ	ō	ō		56.8%	Ō	ō	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% 61.7%	53 31	35 9	-19 -22		60.5% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 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	
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65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7% 67.9%	0	0	0		66.7% 67.9%	0	0	0		66.7% 67.9%	0	0	0		66.7% 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%	Ő	Ő	0		70.4%	Ő	0	0		70.4%	Ő	Ő	Ő		70.4%	Ő	Ő	Ő	
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% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 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% 81.5%	0	0	0	
81.5% 82.7%	0	0	0		81.5% 82.7%	0	0	0		81.5% 82.7%	0	0	0		81.5%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0	
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87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0	0	
88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0	
90.1% 91.4%	0	0	0		90.1%	0	0	0		90.1% 91.4%	0	0	0		90.1%	0	0	0	
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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% 97.5%	0	0	0		96.3% 97.5%	0	0	0		96.3% 97.5%	0	0	0		96.3% 97.5%	0	0	0	
97.5%	0	0	0		97.5% 98.8%	0	0	0		97.5%	0	0	0		97.5%	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

Percent	No Action Alternative	June Alternative A	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%
(%)	(CFS)	(CFS)		4.00/
0.0%	3625	3567	-58	-1.6%
1.2% 2.5%	97 0	93 0	-3	-3.6%
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	0	0	0	
7.4%	0	0	0	
8.6%	Ő	Ő	0	
9.9%	õ	õ	õ	
11.1%	0	0	0	
12.3%	ō	Ō	ō	
13.6%	0	0	0	
14.8%	0	0	0	
16.0%	0	0	0	
17.3%	0	0	0	
18.5%	0	0	0	
19.8%	0	0	0	
21.0%	0	0	0	
22.2%	0	0	0	
23.5%	0	0	0	
24.7%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	0	0	0	
32.1%	0	0	0	
33.3%	0	0	0	
34.6%	0	0	0	
35.8%	0	0	0	
37.0%	0	0	0	
38.3%	0	0	0	
39.5%	0	0	0	
40.7%	0	0	0	
42.0%	0	0	0	
43.2%	0	0	0	
44.4%	0	0	0	
45.7%	0	0	0	
46.9%	0	0	0	
48.1%	0	0	0	
49.4% 50.6%	0	0	0	
	0	0	0	
51.9%	0	0	0	
53.1% 54.3%	0	0	0	
55.6%	0	0	0	
56.8%	0	0	0	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	0	0	0	
63.0%	0	0	0	
64.2%	0	0	0	
65.4%	0	0	0	
66.7%	õ	õ	0	
67.9%	ő	Ő	0	
69.1%	0	0	0	
70.4%	0	Ō	Ō	
71.6%	0	0	0	
72.8%	0	0	0	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	0	0	
80.2%	0	0	0	
81.5%	0	0	0	
82.7%	0	0	0	
84.0%	0	0	0	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
98.8%	0	0	0	
100.0%	0.0	0.0	0.0	

Percent

(%) 0.0% 1.2%

2.5% 3.7%

4.9% 6.2%

7.4% 8.6% 9.9% 11.1% 12.3%

12.3% 13.6% 14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

21.0% 22.2% 23.5% 24.7% 25.9% 27.2% 28.4% 29.6% 30.9% 32.1%

32.1% 33.3% 34.6% 35.8% 37.0% 38.3% 39.5% 40.7% 42.0% 43.2% 44.4%

44.4% 45.7%

46.9% 48.1% 49.4% 50.6%

51.9% 53.1% 54.3%

54.3% 55.6% 56.8% 58.0% 59.3%

59.3% 60.5% 61.7% 63.0% 64.2% 65.4% 66.7% 66.7% 67.9%

69.1% 69.1% 70.4% 71.6% 72.8%

72.8% 74.1% 75.3% 76.5% 77.8% 79.0% 80.2% 81.5% 82.7% 84.0% 85.2% 86.4%

86.4% 87.7%

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

Exceedance Probability

National Annumic Manual Manu		July		Probabili	ty of Exceedance		August					September		
Image Mathem Mathm Mathm Mathm	No. Antion Alternation		Abashita		Percent	No. Antion Alternative		Abaaluta		Percent	No. A stilling Altermetica		Abaalata	
					Exceedance					Exceedance				
				Difference (%)					Difference (%)					Difference (%)
Image: Section of the section of	(CFS)	(CFS)			(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)		
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					23.5%					23.5%				
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Alternative B Compared to No Action Alternative

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		Long	-term Ave	rage and A								
					М	onthly Div	version (CF	5)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear 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												

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

									Probabilit	y of Exceedance						
Percent		October			Percent		November			Percent		December			Percent	
Exceedance Probability	No Action Alternative Monthly Diversion	Alternative B Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedance Probability	No Action Alternative Monthly Diversion	Alternative B Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedan Probabili	ce	Alternative B Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedance Probability	No Action Monthly
(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)		(%)	(0
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1973	314	18.9%	0.0%	5
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1186	-179	-13.1%	1.2%	4
2.5% 3.7%	0	0	0		2.5% 3.7%	0	0	0		2.5% 3.7%	907 617	937	30 106	3.3% 17.1%	2.5% 3.7%	4
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	722 284	-93	-24.7%	4.9%	1
6.2%	0	0	0		6.2%	0	0	0		6.2%	150	218	68	45.4%	6.2%	1
7.4%	0	0	0		7.4%	ő	0	0		7.4%	70	172	102	145.9%	7.4%	
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	91	84		8.6%	-
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0		9.9%	4
11.1%	0	0	0		11.1%	0	0	0		11.1%		0	0		11.1%	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0	0		12.3%	
13.6%	0	0	0		13.6%	0	0	0		13.6%		0	0		13.6%	
14.8% 16.0%	0	0	0		14.8% 16.0%	0	0	0		14.8%		0	0		14.8% 16.0%	
17.3%	0	0	0		17.3%	0	0	0		16.0% 17.3%		0	0		17.3%	
18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0		18.5%	
19.8%	ŏ	0	0		19.8%	0	0	ŏ		19.8%		0	0		19.8%	
21.0%	0	0	Ő		21.0%	0	0	0		21.0%		0	Ō		21.0%	
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0	0		22.2%	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	
25.9%	0	0	0		25.9%	0	0	0		25.9%		0	0		25.9%	
27.2%	0	0	0		27.2%	0	0	0		27.2%		0	0		27.2%	
28.4%	0	0	0		28.4%	0	0	0		28.4%		0	0		28.4%	
29.6%	0	0	0		29.6% 30.9%	0	0	0		29.6%		0	0		29.6%	
30.9% 32.1%	0	0	0		30.9%	0	0	0		30.9% 32.1%	0	0	0		30.9% 32.1%	
33.3%	0	0	0		33.3%	0	0	0		33.3%		0	0		33.3%	
34.6%	ő	0	0		34.6%	0	0	ő		34.6%	0	0	0		34.6%	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	
37.0%	0	0	0		37.0%	0	0	0		37.0%		0	0		37.0%	
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0	0		38.3%	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0		39.5%	
40.7%	0	0	0		40.7%	0	0	0		40.7%		0	0		40.7%	
42.0%	0	0	0		42.0%	0	0	0		42.0%		0	0		42.0%	
43.2%	0	0	0		43.2%	0	0	0		43.2%		0	0		43.2%	
44.4% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4%		0	0		44.4% 45.7%	
45.7%	0	0	0		45.7%	0	0	0		45.7%		0	0		45.7%	
48.1%	0	0	0		48.1%	0	0	0		48.1%		0	0		48.1%	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	
50.6%	Ő	0	õ		50.6%	Ő	Ő	0		50.6%	0	0	Ö		50.6%	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	
53.1%	0	0	0		53.1%	0	0	0		53.1%		0	0		53.1%	
54.3%	0	0	0		54.3%	0	0	0		54.3%		0	0		54.3%	
55.6%	0	0	0		55.6%	0	0	0		55.6%	0	0	0		55.6%	
56.8%	0	0	0		56.8%	0	0	0		56.8%		0	0		56.8%	
58.0% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 59.3%		0	0		58.0% 59.3%	
60.5%	0	0	0		60.5%	0	0	0		60.5%		0	0		60.5%	
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0		61.7%	
63.0%	0	0	õ		63.0%	0	0	0		63.0%	0	0	0		63.0%	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	
65.4%	0	0	0		65.4%	0	0	0		65.4%		0	0		65.4%	
66.7%	0	0	0		66.7%	0	0	0		66.7%		0	0		66.7%	
67.9%	0	0	0		67.9%	0	0	0		67.9%		0	0		67.9%	
69.1%	0	0	0		69.1%	0	0	0		69.1%		0	0		69.1%	
70.4% 71.6%	0	0	0		70.4% 71.6%	0	0	0		70.4%	0	0	0		70.4% 71.6%	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	
74.1%	0	0	0		74.1%	0	0	0		74.1%		0	0		74.1%	
75.3%	Ő	0	0		75.3%	0	ő	0		75.3%		0	0		75.3%	
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	
80.2%	0	0	0		80.2%	0	0	0		80.2%		0	0		80.2%	
81.5%	0	0	0		81.5%	0	0	0		81.5%		0	0		81.5%	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	
84.0% 85.2%	0	0	0		84.0% 85.2%	0	0	0		84.0% 85.2%		0	0		84.0% 85.2%	
85.2%	0	0	0		85.2%	0	0	0		85.2%		0	0		85.2% 86.4%	
87.7%	0	0	0		87.7%	0	0	0		87.7%		0	0		87.7%	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	
90.1%	0	0	0		90.1%	0	0	0		90.1%		0	0		90.1%	
91.4%	0	0	0		91.4%	ő	0	0		91.4%	0	0	0		91.4%	
92.6%	Ő	Ő	Ő		92.6%	Ő	Ő	Ő		92.6%		ő	Ő		92.6%	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	
95.1%	0	0	0		95.1%	0	0	0		95.1%		0	0		95.1%	
96.3%	0	0	0		96.3%	0	0	0		96.3%		0	0		96.3%	
97.5%	0	0	0		97.5%	0	0	0		97.5%		0	0		97.5%	
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	6.0	0.0	0.0		100.0%	

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

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

									Probability o	f Exceedance									
Percent		February			Percent		March			Percent		April			Percent		May		
Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute	Relative
Probability	Monthly Diversion	Monthly Diversion	 Difference (CFS) 	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	 Difference (CFS) 	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)
(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)			<u>(%)</u> 0.0%	(CFS)	(CFS)		
0.0%	12366 6536	11394 6618	-972 81	-7.9% 1.2%	0.0%	7360 3196	7359 2800	-1 -396	0.0%	0.0%	608 285	607 173	0 -111	0.0% -39.1%	0.0%	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%	Ō	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% 8.6%	1220 957	1262 895	43 -62	3.5%	7.4% 8.6%	383 322	425 222	41 -100	10.8% -31.1%	7.4%	0	0	0		7.4% 8.6%	0	0	0	
9.9%	888	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% 17.3%	50 41	30 23	-20 -18	-40.6% -44.5%	16.0% 17.3%	0	0	0		16.0% 17.3%	0	0	0		16.0% 17.3%	0	0	0	
18.5%	0	0	0	-44.570	18.5%	0	0	0		18.5%	0	0	0		18.5%	0	0	0	
19.8%	Ō	ō	õ		19.8%	ō	ō	Ō		19.8%	Ō	ō	ō		19.8%	ō	ō	ō	
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% 24.7%	0	0	0		23.5% 24.7%	0	0	0		23.5% 24.7%	0	0	0		23.5% 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	
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	Ő		28.4%	0	0	Ō		28.4%	0	0	Ō		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% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0	
34.6%	ő	0	0		34.6%	0	0	ő		34.6%	0	0	ŏ		34.6%	ő	0	ő	
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% 40.7%	0	0	0		39.5% 40.7%	0	0	0		39.5%	0	0	0		39.5% 40.7%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7% 42.0%	0	0	0		40.7%	0	0	0	
43.2%	Ő	0	Ő		43.2%	0	Ő	Ő		43.2%	Ő	0	0		43.2%	Ő	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% 48.1%	0	0	0	
48.1% 49.4%	0	0	0		48.1% 49.4%	0	0	0		48.1% 49.4%	0	0	0		48.1% 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% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0	
58.0%	Ő	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	Ő	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% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 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	Ō	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% 71.6%	0	0	0		70.4% 71.6%	0	0	0		70.4% 71.6%	0	0	0		70.4% 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	Ō	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% 79.0%	0	0	0		77.8% 79.0%	0	0	0		77.8% 79.0%	0	0	0		77.8% 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%	ŏ	ő	Ő		81.5%	Ő	ŏ	Ő		81.5%	ő	Ő	Ő		81.5%	ŏ	Ő	Ő	
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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2%	0	0	0		85.2% 86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		86.4% 87.7%	0	0	0		87.7%	0	0	0	
88.9%	õ	õ	0		88.9%	0	õ	Ő		88.9%	ő	0	0		88.9%	Ő	0	0	
90.1%	0	0	0		90.1%	Ō	0	Ō		90.1%	0	0	Ō		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% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 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%	Ő	Ő	0		97.5%	0	Ő	0		97.5%	Ő	Ő	0		97.5%	Ő	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		11000
Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%
(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)	
0.0%	0	0	0		0.0%	0	0	0	
1.2%	0	0	0		1.2%	0	0	0	
2.5%	0	0	0		2.5%	0	0	0	
3.7%	0	0	0		3.7%	0	0	0	
4.9%	0	0	0		4.9%	0	0	0	
6.2%	0	0	0		6.2%	0	0	0	
7.4% 8.6%	0	0	0		7.4%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0	
11.1%	0	0	0		11.1%	0	0	0	
12.3%	0	0	0		12.3%	0	0	0	
13.6%	0	0	0		13.6%	Ő	0	0	
14.8%	0	0	0		14.8%	0	0	0	
16.0%	0	0	0		16.0%	0	0	0	
17.3%	ō	Ō	õ		17.3%	ō	õ	0	
18.5%	0	0	0		18.5%	0	0	0	
19.8%	ō	Ō	õ		19.8%	ō	õ	0	
21.0%	0	0	0		21.0%	0	0	0	
22.2%	0	0	0		22.2%	0	0	0	
23.5%	0	0	0		23.5%	0	0	0	
24.7%	0	0	0		24.7%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0	
27.2%	0	0	0		27.2%	0	0	0	
28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0	
39.5%					39.5%				
40.7% 42.0%	0	0	0		40.7% 42.0%	0	0	0	
42.0%	0	0	0		43.2%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0	
45.7%	0	0	0		45.7%	0	0	0	
46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	ů 0	0	ő	
53.1%	Ő	Ő	Ő		53.1%	ő	Ő	0	
54.3%	0	0	0		54.3%	0	0	0	
55.6%	0	0	0		55.6%	0	0	0	
56.8%	0	0	0		56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	0	0		59.3%	0	0	0	
60.5%	0	0	0		60.5%	0	0	0	
61.7%	0	0	0		61.7%	0	0	0	
63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0	
69.1%	0	0	0		69.1%	0	0	0	
70.4%	0	0	0		70.4%	0	0	0	
71.6%	0	0	0		71.6%	0	0	0	
72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0	
75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0	
76.5%	0		0		76.5%	0			
79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	0	0		88.9%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0	
	0	0	0		92.6%	0	0	0	
	0	0	0		93.8%	0	0	0	
92.6%						0	0		
92.6% 93.8%			0		95.1%				
92.6% 93.8% 95.1%	0	0	0		95.1% 96.3%		0	0	
92.6% 93.8% 95.1% 96.3%	0	0	0		96.3%	0	0	0	
92.6% 93.8% 95.1%	0	0							

FIUDADI	lity of Exceedance		August					September		
	Percent					Percent				
Relative Difference (%)	Exceedance Probability	No Action Alternative Monthly Diversion	Alternative B Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedance Probability	No Action Alternative Monthly Diversion	Alternative B Monthly Diversion	Absolute Difference	Relative Difference (%)
	(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)	
	0.0%	0	0	0		0.0%	0	0	0	
	1.2%	0	0	0		1.2%	0	0	0	
	2.5% 3.7%	0	0	0		2.5% 3.7%	0	0	0	
	4.9%	0	0	0		4.9%	0	0	0	
	6.2%	0	0	0		6.2%	0	0	0	
	7.4%	0	0	õ		7.4%	õ	0	õ	
	8.6%	0	0	0		8.6%	0	0	0	
	9.9%	0	0	0		9.9%	0	0	0	
	11.1%	0	0	0		11.1%	0	0	0	
	12.3%	0	0	0		12.3%	0	0	0	
	13.6% 14.8%	0	0	0		13.6% 14.8%	0	0	0	
	16.0%	0	0	0		16.0%	0	0	0	
	17.3%	0	ŏ	ő		17.3%	0	ő	0	
	18.5%	0	0	0		18.5%	0	0	0	
	19.8%	0	0	0		19.8%	0	0	0	
	21.0%	0	0	0		21.0%	0	0	0	
	22.2%	0	0	0		22.2%	0	0	0	
	23.5%	0	0	0		23.5%	0	0	0	
	24.7% 25.9%	0	0	0		24.7% 25.9%	0	0	0	
	27.2%	0	0	0		27.2%	0	0	0	
	28.4%	0	0	0		28.4%	0	0	Ō	
	29.6%	0	0	0		29.6%	0	0	0	
	30.9%	0	0	0		30.9%	0	0	0	
	32.1%	0	0	0		32.1%	0	0	0	
	33.3%	0	0	0		33.3%	0	0	0	
	34.6% 35.8%	0	0	0		34.6% 35.8%	0	0	0	
	35.8%	0	0	0		35.6%	0	0	0	
	38.3%	0	0	0		38.3%	0	0	0	
	39.5%	0	ō	ō		39.5%	ō	Ō	õ	
	40.7%	0	0	0		40.7%	0	0	0	
	42.0%	Ö	0	0		42.0%	0	0	0	
	43.2%	0	0	0		43.2%	0	0	0	
	44.4%	0	0	0		44.4%	0	0	0	
	45.7% 46.9%	0	0	0		45.7% 46.9%	0	0	0	
	48.1%	0	0	0		48.1%	0	0	0	
	49.4%	0	õ	0		49.4%	ő	õ	Ő	
	50.6%	0	0	Ō		50.6%	0	0	Ō	
	51.9%	0	0	0		51.9%	0	0	0	
	53.1%	0	0	0		53.1%	0	0	0	
	54.3%	0	0	0		54.3%	0	0	0	
	55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0	
	58.0%	0	0	0		58.0%	0	0	0	
	59.3%	õ	ŏ	ő		59.3%	ŏ	ŏ	ő	
	60.5%	0	0	0		60.5%	0	0	0	
	61.7%	Ö	0	0		61.7%	0	0	0	
	63.0%	0	0	0		63.0%	0	0	0	
	64.2%	0	0	0		64.2%	0	0	0	
	65.4% 66.7%	0	0	0		65.4% 66.7%	0	0	0	
	67.9%	0	0	0		67.9%	0	0	0	
	69.1%	0	0	0		69.1%	0	0	0	
	70.4%	Ő	Ő	0		70.4%	Ő	Ő	Ő	
	71.6%	0	0	0		71.6%	0	0	0	
	72.8%	0	0	0		72.8%	0	0	0	
	74.1%	0	0	0		74.1%	0	0	0	
	75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0	
	76.5%	0	0	0		76.5%	0	0	0	
	79.0%	0	0	0		79.0%	0	0	0	
	80.2%	0	0	0		80.2%	0	0	0	
	81.5%	0	ō	ō		81.5%	ō	Ō	Õ	
	82.7%	0	0	0		82.7%	0	0	0	
	84.0%	0	0	0		84.0%	0	0	0	
	85.2%	0	0	0		85.2%	0	0	0	
	86.4%	0	0	0		86.4%	0	0	0	
	87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0	
	90.1%	0	0	0		90.1%	0	0	0	
	91.4%	0	0	0		91.4%	0	0	0	
	92.6%	0	0	0		92.6%	0	0	0	
	93.8%	0	0	0		93.8%	0	0	õ	
	95.1%	0	0	0		95.1%	0	0	0	
	96.3%	0	0	0		96.3%	0	0	0	
	97.5%	0	0	0		97.5%	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	

		Long	-term Aver	age and A	verage by	Water Ye	ar Type					
					М	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear Types	1						
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	0	0	22.0%	107.8%	0	Ū	0	0	0	0	0	0
Dry (22%)			22.070	107.070								
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	U	U	4 3.2%	U	U	U	U	U	U	U	U	U
Critical (15%)			3.470									
No Action Alternative	0	0	0	0	Ō	0	0	0	0	0	0	0
Alternative B	0	0	0	0	0	0	0	0	0	0	0	0
Difference												
Percent Difference	0	0	0	0	0	0	0	0	0	0	0	0
1 Based on the 82-year simulation period												





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

Absolute Difference (CFS)

-169

-296 -184 -208 -285 230

-36 3 -69

-69 -182 -66 -68 -39 14 -147

-32 -8 -9

0

0

0

0

0

0

0

0

0 0

0

0.0

Relative Difference (%)

-3.1% -7.5% -5.0% -9.0% -17.2% 22.4% -3.6%

-3.6% 0.4% -11.6%

-11.6% -31.9% -14.9% -15.3% -9.5% 4.6% -69.1% -40.7% -14.6% -18.8% 41.3% 56.5%

									Probability	of Exceedance								
Percent		October			Percent		November			Percent		December			Percent		January	
Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	
Probability	Monthly Diversion	Monthly Diversion	 Difference (CFS) 	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	_
(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)	
0.0%	0	0	0		0.0%	0	1	1		0.0%	1010 1009	1101 1086	90 77	9.0% 7.7%	0.0%	5535 3947	5366 3652	
2.5%	0	0	0		2.5%	0	0	0		2.5%	969	978	9	0.9%	2.5%	3653	3468	
3.7%	0	0	0		3.7%	0	0	0		3.7%	839	932	93	11.1%	3.7%	2312	2104	
4.9%	0	0	0		4.9%	0	0	0		4.9%	494	523	30	6.0%	4.9%	1658	1373	
6.2%	0	0	0		6.2%	0	0	0		6.2%	351	434	83	23.6%	6.2%	1025	1255	
7.4%	0	0	0		7.4% 8.6%	0	0	0		7.4%	74 53	179 145	105 92	140.8% 175.3%	7.4%	1003 890	967 893	
9.9%	0	0	0		9.9%	0	0	0		9.9%	28	75	48	170.6%	9.9%	594	525	
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	36	36		11.1%	571	389	
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	6	6		12.3%	446 444	379	
13.6% 14.8%	0	0	0		13.6% 14.8%	0	0	0		13.6% 14.8%	0	0	0		13.6% 14.8%	444 414	376 375	
16.0%	0	0	0		16.0%	0	0	0		16.0%	0	0	0		16.0%	309	323	
17.3%	0	0	0		17.3%	0	0	0		17.3%	0	0	0		17.3%	213	66	
18.5% 19.8%	0	0	0		18.5% 19.8%	0	0	0		18.5% 19.8%	0	0	0		18.5% 19.8%	77 53	46 45	
21.0%	0	0	0		21.0%	0	0	0		21.0%	0	0	0		21.0%	47	45	
22.2%	0	ő	0		22.2%	ő	0	0		22.2%	0	õ	0		22.2%	26	37	
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0	0		23.5%	18	28	
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0		24.7%	10	21	
25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	
28.4%	0	ő	0		28.4%	Ő	Ő	Ő		28.4%	0	Ő	Ő		28.4%	Ő	Ő	
29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	0		29.6%	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	
32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	
34.6%	Ő	ő	Ő		34.6%	ő	õ	Ő		34.6%	Ő	ŏ	ő		34.6%	ŏ	ŏ	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	
38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	
40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	
42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	0		42.0%	0	0	
43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0	
49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	
53.1%	0	ő	0		53.1%	Ő	Ő	Ő		53.1%	0	Ő	ő		53.1%	Ő	Ő	
54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3%	0	0	
55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	
59.3%	ō	ō	0		59.3%	ō	ō	0		59.3%	ō	ō	Ō		59.3%	ō	ō	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	
61.7% 63.0%	0	0	0		61.7% 63.0%	0	0	0		61.7% 63.0%	0	0	0		61.7% 63.0%	0	0	
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0	
65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	
66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	
67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	
70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	0		70.4%	0	0	
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0	
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0	
74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	
76.5%	0	ő	õ		76.5%	ő	õ	ő		76.5%	0	õ	ő		76.5%	õ	ŏ	
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0	
80.2% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 81.5%	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	
86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	
88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	0		88.9%	0	0	
90.1%	0	0	0		90.1%	0	0	Ō		90.1%	0	0	0		90.1%	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	
92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0	
96.3%	0	0	0		96.3%	Ö	0	0		96.3%	0	0	0		96.3%	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	
98.8% 100.0%	0	0.0	0.0		98.8% 100.0%	0.0	0.0	0		98.8% 100.0%	0	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	_

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

									Probability o	f Exceedance									
Percent		February			Percent		March			Percent		April			Percent		Мау		
Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
(%) 0.0%	(CFS) 9355	(CFS) 8833	-522	-5.6%	<u>(%)</u> 0.0%	(CFS) 6639	(CFS) 6638	-1	0.0%	<u>(%)</u> 0.0%	(CFS) 1015	(CFS) 1016	0	0.0%	<u>(%)</u> 0.0%	(CFS)	(CFS)	0	
1.2%	9304	8740	-564	-6.1%	1.2%	5565	4842	-723	-13.0%	1.2%	737	576	-162	-21.9%	1.2%	Ő	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% 4.9%	3323 1751	3070 1732	-253 -19	-7.6%	3.7% 4.9%	1332 1238	1154 1138	-178 -100	-13.4% -8.1%	3.7% 4.9%	227 96	116 96	-111	-48.9% -0.1%	3.7% 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% 9.9%	1317 976	1315 880	-2 -96	-0.1% -9.8%	8.6% 9.9%	469 443	469 404	0 -40	0.0%	8.6% 9.9%	0	0	0		8.6% 9.9%	0	0	0	
9.9%	806	701	-96	-13.0%	11.1%	443	333	-40	-19.2%	9.9%	0	0	0		9.9%	0	0	0	_
12.3%	682	541	-141	-20.7%	12.3%	124	59	-65	-52.6%	12.3%	ō	Ō	ō		12.3%	õ	ō	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% 16.0%	510 466	517 374	6 -91	1.2%	14.8% 16.0%	47 34	15 8	-33 -27	-69.3% -77.7%	14.8% 16.0%	0	0	0		14.8% 16.0%	0	0	0	
17.3%	290	206	-84	-28.9%	17.3%	1	6	6	-11.170	17.3%	0	0	ŏ		17.3%	ő	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% 21.0%	236	158	-78 -24	-33.1%	19.8%	0	0	0		19.8%	0	0	0		19.8% 21.0%	0	0	0	
21.0%	118 101	93 78	-24	-20.7% -23.5%	21.0% 22.2%	0	0	0		21.0% 22.2%	0	0	0		21.0%	0	0	0	
23.5%	38	67	29	74.4%	23.5%	0	Ő	0		23.5%	0	0	Ő		23.5%	Ő	0	0	
24.7%	14	46	32		24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0	0	
25.9% 27.2%	0	26	26		25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	0	
27.2%	0	0	0		28.4%	0	0	0		28.4%	0	0	0		27.2%	0	0	0	
29.6%	ō	Ö	0		29.6%	0	õ	0		29.6%	0	ō	0		29.6%	Ö	0	0	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 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% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 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% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	0		43.2% 44.4%	0	0	0	
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	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% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 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% 55.6%	0	0	0		54.3%	0	0	0		54.3%	0	0	0		54.3% 55.6%	0	0	0	
56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 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% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 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% 67.9%	0	0	0		66.7% 67.9%	0	0	0		66.7% 67.9%	0	0	0		66.7% 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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0	
74.1%	õ	0	0		74.1%	0	0	0		74.1%	õ	õ	0		74.1%	0	0	0	
75.3%	0	Ó	0		75.3%	0	Ó	0		75.3%	0	0	0		75.3%	0	0	0	
76.5% 77.8%	0	0	0		76.5% 77.8%	0	0	0		76.5% 77.8%	0	0	0		76.5% 77.8%	0	0	0	_
77.8%	0	0	0		77.8%	0	0	0		77.8%	0	0	0		77.8%	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% 84.0%	0	0	0		82.7% 84.0%	0	0	0		82.7% 84.0%	0	0	0		82.7% 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% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7%	0	0	0	
88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0		88.9% 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% 95.1%	0	0	0	_	93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0	
95.1% 96.3%	0	0	0		95.1%	0	0	0		95.1% 96.3%	0	0	0		95.1%	0	0	0	
97.5%	Ő	0	0		97.5%	0	0	0		97.5%	0	Ő	0		97.5%	0	0	0	
98.8% 100.0%	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

Percent	No Action Alternative	June Alternative B	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%)
(%)	(CFS)	(CFS)	0	
0.0%	0	0	0	
2.5%	0	0	0	
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	Ő	ŏ	Ő	
7.4%	õ	ő	0	
8.6%	0	0	Õ	
9.9%	0	0	0	
11.1%	0	0	0	
12.3%	0	0	0	
13.6%	0	0	0	
14.8%	0	0	0	
16.0%	0	0	0	
17.3%	0	0	0	
18.5%	0	0	0	
19.8%	0	0	0	
21.0%				
22.2% 23.5%	0	0	0	
23.3%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	Ő	ŏ	0	
32.1%	0	õ	õ	
33.3%	0	0	0	
34.6%	0	0	0	
35.8%	0	0	0	
37.0%	0	0	0	
38.3%	0	0	0	
39.5%	0	0	0	
40.7%	0	0	0	
42.0%	0	0	0	
43.2%	0	0	0	
44.4%	0	0	0	
45.7%	0	0	0	
46.9%	0	0	0	
48.1%				
49.4% 50.6%	0	0	0	
51.9%	0	0	0	
53.1%	Ő	Ő	Ő	
54.3%	0	0	õ	
55.6%	0	0	0	
56.8%	0	0	0	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	0	0	0	
63.0%	0	0	0	
64.2%	0	0	0	
65.4%	0	0	0	
66.7%	0	0	0	
67.9%	0	0	0	
69.1%	0	0	0	
70.4% 71.6%	0	0	0	
71.6%	0	0	0	
74.1%	0	0	0	
74.1%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	ő	0	
80.2%	0	0	0	
81.5%	õ	ŏ	ő	
82.7%	0	0	0	
84.0%	0	ō	0	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
07.5%				
97.5% 98.8%	0	0	0	

Percent Exceedance Probability

Probabilit (%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4%

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		Long-	term Ave	rage and A	Average by	Water Ye	ar Type					
						onthly Div		S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear 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%							

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

									Probability o	f Exceedance									
Percent		October			Percent		November			Percent		December			Percent		January		
Exceedance	No Action Alternative	Alternative B	Absolute	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 559	(CFS) 768	209	37.4%	<u>(%)</u> 0.0%	(CFS) 7065	(CFS) 6633	-432	-6.1%	<u>(%)</u> 0.0%	(CFS) 19690	(CFS) 20915	1225	6.2%	<u>(%)</u> 0.0%	(CFS) 34396	(CFS) 34830	434	1.3%
1.2%	0	0	209	37.470	1.2%	1342	1188	-154	-11.5%	1.2%	15339	14219	-1119	-7.3%	1.2%	30467	30895	434	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% 6.2%	0	0	0		4.9% 6.2%	318 0	345 77	26 77	8.3%	4.9% 6.2%	8690 8205	9226 9107	536 902	6.2% 11.0%	4.9% 6.2%	21295 20927	21019 19619	-276 -1307	-1.3% -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% 12.3%	0	0	0		11.1% 12.3%	3381 3364	4242 3392	861 29	25.5% 0.8%	11.1% 12.3%	11956 10544	10964 10245	-993 -300	-8.3% -2.8%
13.6%	0	0	0		13.6%	0	0	0		13.6%	3262	3209	-53	-1.6%	13.6%	10025	10055	-300	0.3%
14.8%	Ō	Ō	0		14.8%	Ō	õ	ō		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% 18.5%	0	0	0		17.3% 18.5%	0	0	0		17.3% 18.5%	1931	2692 2157	761 525	39.4% 32.1%	17.3% 18.5%	8270 7295	7586 7180	-684 -115	-8.3% -1.6%
18.5%	0	0	0		18.5%	0	0	0		18.5%	1632 1364	1377	525	32.1%	18.5%	6835	7180	-115	-1.6%
21.0%	Ő	0	Ő		21.0%	Ő	Ő	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% 25.9%	0	0	0		24.7% 25.9%	0	0	0		24.7% 25.9%	444 338	335 326	-108 -12	-24.4% -3.6%	24.7% 25.9%	3793 3788	3865 2490	72 -1298	1.9% -34.3%
25.9%	0	0	0		25.9%	0	0	0		25.9%	270	261	-12	-3.8%	25.9%	2797	2286	-1296	-34.3%
28.4%	Ő	õ	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% 32.1%	0	0	0		30.9% 32.1%	0	0	0		30.9% 32.1%	96 79	114 74	18 -5	18.9% -6.9%	30.9% 32.1%	1865 1582	1586 1351	-278 -232	-14.9% -14.6%
32.1%	0	0	0		32.1%	0	0	0		32.1%	79 72	49	-5	-30.9%	32.1%	1582	796	-232 -238	-14.6%
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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% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	283 244	198 141	-85 -103	-30.0% -42.1%
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44.4% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 45.7%	10	0	-10 0	
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0	0		45.7%	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% 53.1%	0	0	0		51.9% 53.1%	0	0	0		51.9% 53.1%	0	0	0		51.9% 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% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 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	
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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% 66.7%	0	0	0		65.4% 66.7%	0	0	0		65.4% 66.7%	0	0	0		65.4% 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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 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	Ō	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% 79.0%	0	0	0		77.8%	0	0	0		77.8%	0	0	0	
79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0	
81.5%	Ő	0	0		81.5%	0	õ	0		81.5%	0	0	0		81.5%	õ	0	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0% 85.2%	0	0	0		84.0%	0	0	0		84.0%	0	0	0		84.0% 85.2%	0	0	0	
85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 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%	ŏ	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% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	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	Ő	
98.8% 100.0%	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	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		110505			April			-		May		
Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute	
Exceedance			 Difference 	Relative	Exceedance			Difference	Relative	Exceedance			 Difference 	Relative	Exceedance			Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 53046	(CFS) 52404	-641	-1.2%	<u>(%)</u> 0.0%	(CFS) 46969	(CFS) 46966	-2	0.0%	<u>(%)</u> 0.0%	(CFS) 17385	(CFS) 15410	-1975	-11.4%	<u>(%)</u> 0.0%	(CFS) 2239	(CFS) 1859	-380	-17.0%
1.2%	49189	48022	-041	-2.4%	1.2%	34582	33273	-1310	-3.8%	1.2%	13969	13675	-1975	-11.4%	1.2%	1860	1783	-360	-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	-000	-44.770
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	Ő	
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 -547	-26.1%	22.2%	10	0	-10		22.2%	0	0	0	
23.5%	7401	7219	-181	-2.4%	23.5%	3001	2454		-18.2%	23.5%	0	0	0		23.5%	0	0	0	
24.7% 25.9%	7267 5435	6480 6245	-787 810	-10.8% 14.9%	24.7% 25.9%	2925 2758	2416 2121	-508 -637	-17.4% -23.1%	24.7% 25.9%	0	0	0		24.7% 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%	õ	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%	õ	0	õ		34.6%	õ	õ	õ	
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	281 144	-9 -16	-3.2%	51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0	0	
53.1% 54.3%	160 145	108	-16		53.1% 54.3%	0	0	0		53.1% 54.3%	0	0	0		53.1% 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	ő	0	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	ō	õ	õ		61.7%	0	0	õ		61.7%	õ	0	õ		61.7%	ō	õ	õ	
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% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0	
76.5%	0	0	0		76.5%	0	0	0		75.3%	0	0	0		75.5%	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%	Ő	0	0		80.2%	0	0	0	
81.5%	0	0	ŏ		81.5%	Ő	õ	ő		81.5%	ŏ	õ	0		81.5%	õ	õ	0	
82.7%	0	0	0		82.7%	0	0	0		82.7%	Ő	0	Ő		82.7%	0	0	0	
84.0%	õ	õ	ŏ		84.0%	0	0	Ő		84.0%	õ	0	ő		84.0%	õ	ŏ	ő	
85.2%	Ō	Ō	Ō		85.2%	0	Ō	0		85.2%	Ō	0	Ō		85.2%	Ō	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		
Percent	No Action Alternative	Alternative B	Absolute	
Exceedance			Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 1574	(CFS) 1500	-74	-4.7%
1.2%	0	0	-74	-4.7%
2.5%	0	0	0	
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	0	0	0	
7.4%	0	0	0	
8.6%	0	0	0	
9.9%	0	0	ő	
11.1%	0	0	0	
12.3%	0	0	0	
13.6%	0	0	0	
14.8%	0	0	0	
16.0%	0	0	0	
17.3%	0	0	0	
18.5%	0	0	0	
19.8%	0	0	0	
21.0%	0	0	0	
22.2%	0	0	0	
23.5%	0	0	0	
24.7%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	0	0	0	
32.1% 33.3%	0	0	0	
33.3%	0	0	0	
35.8%	0	0	0	
35.6%	0	0	0	
38.3%	0	0	0	
39.5%	0	0	0	
40.7%	0	0	0	
42.0%	õ	õ	0	
43.2%	Ő	Ő	Ő	
44.4%	0	0	0	
45.7%	Ő	Ő	0	
46.9%	0	0	0	
48.1%	0	0	0	
49.4%	0	0	0	
50.6%	0	0	0	
51.9%	0	0	0	
53.1%	0	0	0	
54.3%	0	0	0	
55.6%	0	0	0	
56.8%	0	0	0	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	0	0	0	
63.0%	0	0	0	
64.2%	0	0	0	
65.4%	0	0	0	
66.7%	0	0	0	
67.9%		0		
69.1% 70.4%	0	0	0	
71.6% 72.8%	0	0	0	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	0	0	
80.2%	0	0	0	
81.5%	õ	ŏ	0	
82.7%	0	0	0	
84.0%	0	0	ō	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
98.8%	0	0	0	
100.0%	0.0	0.0	0.0	

June

Percent Exceedance Probability

(%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4% 8.6% 9.9% 11.1% 12.3% 13.6% 14.8% 16.0% 14.8% 16.0% 17.3%

22.2% 23.5% 24.5% 25.9% 25.9% 25.9% 25.9% 26.3% 25.9% 26.3% 25.9% 27.9% 25.9% 26.9% 27.9%

86.4% 87.7% 88.9% 90.1%

90.1% 91.4% 92.6% 93.8% 95.1% 96.3% 97.5% 98.8% 100.0%

		July			-			August			-		September		
,	to Action Alternative	Alternative B	Absolute			ercent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute	
e	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exc	ceedance obability	Monthly Diversion	Monthly Diversio	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
	(CFS)	(CFS)	(CFS)			(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)	
	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	
	0	0	0			2.5%	0	0	0		2.5%	0	0	0	
	0	0	0			3.7%	0	0	0		3.7%	0	0	0	
	0	0	0			4.9%	0	0	0		4.9%	0	0	0	
	0	0	0			6.2%	0	0	0		6.2%	0	0	0	
	0	0	0			7.4%	0	0	0		7.4%	0	0	0	
	0	0	0			8.6%	0	0	0		8.6%	0	0	0	
	0	0	0			9.9%	0	0	0		9.9%	0	0	0	
	0	0	0			11.1%	0	0	0		11.1%	0	0	0	
	0	0	0			12.3%	0	0	0		12.3%	0	0	0	
	0	0	0			13.6%	0	0	0		13.6%	0	0	0	
	0	0	0			14.8%	0	0	0		14.8%	0	0	0	
	0	0	0			16.0%	0	0	0		16.0%	0	0	0	
	0	0	0			17.3%	0	0	0		17.3%	0	0	0	
	0	0	0			18.5%	0	0	0		18.5%	0	0	0	
	0	0	0			19.8%	0	0	0		19.8%	0	0	0	
	0	0	0			21.0%	0	0	0		21.0%	0	0	0	
	0	0	0			22.2%	0	0	0		22.2%	0	0	0	
	0	0	Ő			23.5%	0	0	0		23.5%	Ō	0	Ő	
	0	0	0			24.7%	0	0	0		24.7%	ō	0	0	
	0	0	0			25.9%	ő	ő	0		25.9%	Ő	ő	Ő	
	0	0	ő			27.2%	0	0	0		27.2%	0	0	0	
	0	0	0			28.4%	Ő	Ő	Ő		28.4%	ő	ő	Ő	
	0	0	0			29.6%	0	0	0		29.6%	0	0	0	
	0	0	0			30.9%	0	0	0		30.9%	0	0	0	
	0	0	ő			32.1%	õ	ŏ	0		32.1%	ő	ŏ	ő	
	0	0	0			33.3%	0	Ő	Ő		33.3%	0	0	0	
	0	0	ő			34.6%	0	ő	0		34.6%	0	0	0	
	0	0	0			35.8%	Ő	Ő	0		35.8%	0	0	0	
	0	0	ő			37.0%	0	ő	ő		37.0%	0	0	0	
	0	0	0			38.3%	0	0	0		38.3%	0	0	0	
	0	õ	ő			39.5%	0	ő	0		39.5%	õ	ů.	0	
	0	0	0			40.7%	Ő	0	0		40.7%	0	0	0	
	0	0	0			42.0%	0	0	0		42.0%	0	0	0	
	0	0	Ő			43.2%	Ő	Ő	Ő		43.2%	Ő	Ő	Ő	
	0	0	0			14.4%	õ	õ	0		44.4%	ő	õ	Ő	
	0	0	0			45.7%	0	0	0		45.7%	0	0	0	
	0	0	ő			46.9%	õ	õ	0		46.9%	ő	õ	Ő	
	0	0	0			48.1%	0	0	0		48.1%	0	0	0	
	0	0	0			49.4%	õ	õ	0		49.4%	ő	õ	Ő	
	0	0	0			50.6%	0	0	0		50.6%	0	0	0	
	0	0	0			51.9%	0	0	0		51.9%	0	0	0	
	0	0	0			53.1%	0	0	0		53.1%	0	0	0	
	0	0	ő			54.3%	õ	ŏ	0		54.3%	ő	ŏ	ő	
	0	0	0			55.6%	Ő	0	0		55.6%	0	0	0	
	0	0	ő			56.8%	õ	ŏ	0		56.8%	ő	ŏ	ő	
	0	0	0			58.0%	0	Ő	Ő		58.0%	Ő	ő	0	
	0	õ	ő			59.3%	õ	ŏ	0		59.3%	õ	ŏ	ő	
	0	0	0			60.5%	0	0	Ő		60.5%	0	0	0	
	õ	õ	ő			51.7%	õ	õ	ő		61.7%	õ	ŏ	ő	
	0	0	0			53.0%	0	0	0		63.0%	0	0	0	
	0	0	ő			54.2%	0	ő	0		64.2%	0	ő	0	
	0	0	Ő			65.4%	Ő	Ő	Ő		65.4%	Ő	Ő	Ő	
	0	0	ő			66.7%	0	0	0		66.7%	0	0	0	
	0	0	0			57.9%	0	0	0		67.9%	0	0	0	
	0	0	0			59.1%	õ	õ	0		69.1%	ő	õ	Ő	
	0	0	0			70.4%	0	0	0		70.4%	0	0	0	
	0	0	0			71.6%	õ	õ	0		71.6%	ő	õ	Ő	
	0	0	0			72.8%	ő	ő	0		72.8%	Ő	ő	Ő	
	0	0	0			74.1%	0	0	0		74.1%	ō	0	õ	
	0	Ő	0			75.3%	ő	ő	0		75.3%	Ő	ő	Ő	
	ō	ō	ō			76.5%	õ	ō	ō		76.5%	õ	ō	õ	
	0	0	Ō			77.8%	0	0	0		77.8%	0	0	0	
	0	0	ő			79.0%	õ	ŏ	0		79.0%	ő	ŏ	ő	
	0	0	0			30.2%	0	0	0		80.2%	0	0	0	
	0	õ	ő			31.5%	õ	ŏ	0		81.5%	õ	ŏ	ő	
	0	0	0			32.7%	0	0	0		82.7%	0	0	0	
	0	õ	ő			34.0%	ŏ	ŏ	0		84.0%	õ	ŏ	õ	
	0	Ō	Ő			35.2%	0	0	0		85.2%	0	Ō	Ő	
	0	0	0		1	36.4%	0	0	0		86.4%	ō	0	0	
	0	0	0			37.7%	ő	ő	0		87.7%	Ő	ő	Ő	
	0	õ	0			38.9%	0	õ	0		88.9%	õ	0	0	
	0	0	Ő			90.1%	Ő	Ő	Ő		90.1%	Ő	Ő	Ő	
	0	0	ő			91.4%	0	0	0		91.4%	0	0	Ő	
	0	0	Ő			92.6%	Ő	Ő	Ő		92.6%	ő	ő	Ő	
	0	0	ő			93.8%	0	0	0		93.8%	0	0	0	
	0	0	0			95.1%	0	0	0		95.1%	0	0	0	
	0	0	0			96.3%	0	0	0		96.3%	0	0	0	
	0	0	0			97.5%	0	0	0		97.5%	0	0	0	
	0	0	ő			98.8%	0	ő	0		98.8%	0	0	0	
	0.0	0.0	0.0			00.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	
-															

						s, Monthly y Water Ye						
		Long		age and P		onthly Div		(5)				
Analysis Period	Oct	Nov	Dec	Jan	Feb "	Mar	Apr	Mav	Jun	Jul	Aug	Sep
Analysis Ferrea			200		ng-term	mai	7.01	inay	vun	• •	/ tug	
Full Simulation Period ¹				201	ig toni							
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%				
					ear Types							
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%						

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

									Probability o	f Exceedance									
Percent		October			Percent		November			Percent		December			Percent		January		
Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative B	Absolute Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 685	(CFS) 896	211	30.8%	<u>(%)</u> 0.0%	(CFS) 6110	(CFS) 5523	-587	-9.6%	(%) 0.0%	(CFS) 10781	(CFS) 11563	782	7.3%	<u>(%)</u> 0.0%	(CFS) 15256	(CFS) 15554	298	2.0%
1.2%	0	21	21	30.8%	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% 6.2%	0	0	0		4.9% 6.2%	334 314	332 270	-1 -44	-0.4%	4.9% 6.2%	4807 4589	5036 4509	230 -80	4.8%	4.9% 6.2%	10953 10456	11092 10328	139 -128	1.3% -1.2%
7.4%	0	0	0		7.4%	77	208	132	172.1%	7.4%	4335	4116	-219	-5.0%	7.4%	10430	10328	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% 12.3%	15	0	-15 -6	-100.0%	11.1% 12.3%	3452 3136	3141 2918	-311 -218	-9.0%	11.1% 12.3%	6571 6512	7405	834 327	12.7%
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% 18.5%	0	0	0		17.3% 18.5%	0	0	0		17.3% 18.5%	2353 1860	2616 2205	263 345	11.2% 18.5%	17.3% 18.5%	5398 4727	4659 4302	-738 -425	-13.7% -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% 24.7%	0	0	0		23.5% 24.7%	0	0	0		23.5% 24.7%	1138 628	970 776	-168 148	-14.8% 23.5%	23.5% 24.7%	3723 3397	3288 3006	-434 -391	-11.7% -11.5%
24.7%	0	0	0		25.9%	0	0	0		25.9%	537	719	146	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% 30.9%	0	0	0		29.6% 30.9%	0	0	0		29.6% 30.9%	411 404	484 454	73 50	17.8% 12.3%	29.6% 30.9%	2125 2108	2068 1897	-57 -211	-2.7%
32.1%	0	0	0		32.1%	0	0	0		32.1%	398	434	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% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 37.0%	251 210	349 317	98 106	38.9% 50.4%	35.8% 37.0%	1066 977	956 932	-110 -46	-10.3%
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	186	98	111.8%	38.3%	836	751	-46	-4.7%
39.5%	õ	0	Ő		39.5%	0	ŏ	õ		39.5%	50	28	-22	111.070	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% 43.2%	0	0	0		42.0% 43.2%	0	0	0		42.0% 43.2%	13 0	0	-13 0		42.0% 43.2%	451 319	333 260	-118 -59	-26.1% -18.5%
43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	0		43.2%	174	200	-59	-15.1%
45.7%	Ő	0	0		45.7%	0	Ő	Ő		45.7%	0	0	Ő		45.7%	103	141	39	10.170
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% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0		49.4% 50.6%	55 42	47 30	-8 -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% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 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% 61.7%	0	0	0		60.5%	0	0	0		60.5% 61.7%	0	0	0	
61.7% 63.0%	0	0	0		63.0%	0	0	0		61.7% 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% 67.9%	0	0	0		66.7%	0	0	0		66.7%	0	0	0		66.7% 67.9%	0	0	0	
67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9%	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% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 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% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 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%	ō	Ō	0		84.0%	0	0	0		84.0%	0	ō	0		84.0%	ō	ō	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 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% 93.8%	0	0	0		92.6%	0	0	0		92.6%	0	0	0		92.6% 93.8%	0	0	0	
93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 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	Ō	
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

		February			-		March					April					May		
Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute		Percent	No Action Alternative	Alternative B	Absolute	Relative	Percent	No Action Alternative	Alternative B	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)		(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (///
0.0%	18736	18624	-112	-0.6%	0.0%	17777	17777	0	0.0%	<u>(%)</u> 0.0%	9875	9310	-565	-5.7%	0.0%	2892	2068	-825	-28.5%
1.2%	18159	17957	-202	-1.1%	1.2%	14705	14093	-612	-4.2%	1.2%	8796	7969	-827	-9.4%	1.2%	1980	1555	-426	-21.5%
2.5%	15350	15597	247	1.6%	2.5%	13585	13077	-508	-3.7%	2.5%	8066	7657	-408	-5.1%	2.5%	1550	1524	-25	-1.6%
3.7%	13328 11640	12980 11753	-348	-2.6%	3.7%	11791	11458	-333	-2.8%	3.7%	7657	7070	-587	-7.7%	3.7%	873	659	-214	-24.5%
4.9% 6.2%	10925	11753	113 807	1.0% 7.4%	4.9% 6.2%	9970 8585	9953 8617	-17 32	-0.2% 0.4%	4.9% 6.2%	7057 4953	7061 4525	-429	0.1%	4.9% 6.2%	0	0	0	
7.4%	10925	10786	-78	-0.7%	7.4%	7690	6651	-1039	-13.5%	7.4%	3949	3949	-429	0.0%	7.4%	0	0	0	
8.6%	10452	10197	-255	-2.4%	8.6%	7209	6431	-778	-10.8%	8.6%	3511	2982	-529	-15.1%	8.6%	0	0	0	
9.9%	10203	9254	-949	-9.3%	9.9%	7184	6115	-1069	-14.9%	9.9%	3009	2465	-544	-18.1%	9.9%	0	ō	õ	
11.1%	9890	9244	-646	-6.5%	11.1%	6322	5765	-557	-8.8%	11.1%	2471	2354	-117	-4.7%	11.1%	0	0	0	
12.3%	8871	8999	127	1.4%	12.3%	6110	5644	-466	-7.6%	12.3%	2286	1892	-394	-17.2%	12.3%	0	0	0	
13.6%	8858	8531	-326	-3.7%	13.6%	5093	4735	-358	-7.0%	13.6%	2059	1667	-391	-19.0%	13.6%	0	0	0	
14.8%	7839	7782	-57	-0.7%	14.8%	4819	4525	-294	-6.1%	14.8%	2027	1643	-383	-18.9%	14.8%	0	0	0	
16.0% 17.3%	6949 6880	6768 6239	-181 -641	-2.6%	16.0% 17.3%	4524 3954	4487 3469	-37 -485	-0.8% -12.3%	16.0% 17.3%	1642 1579	1593 1502	-49 -77	-3.0%	16.0% 17.3%	0	0	0	
18.5%	6738	6053	-685	-10.2%	18.5%	3390	3075	-315	-9.3%	18.5%	1525	1140	-386	-25.3%	18.5%	0	0	0	
19.8%	6425	5804	-621	-9.7%	19.8%	3359	2988	-371	-11.0%	19.8%	1066	530	-537	-50.3%	19.8%	0	0	0	
21.0%	6243	5670	-573	-9.2%	21.0%	3225	2604	-621	-19.3%	21.0%	595	502	-94	-15.7%	21.0%	0	0	Ō	
22.2%	6027	5349	-678	-11.2%	22.2%	3184	2339	-845	-26.5%	22.2%	547	294	-253	-46.3%	22.2%	0	0	0	
23.5%	5332	5193	-139	-2.6%	23.5%	2752	2216	-535	-19.5%	23.5%	310	260	-49	-15.9%	23.5%	0	0	0	
24.7%	5325	5081	-243	-4.6%	24.7%	2704	2150	-554	-20.5%	24.7%	305	183	-121	-39.9%	24.7%	0	0	0	
25.9%	4823	4983	160	3.3%	25.9%	2562	2020	-542	-21.1%	25.9%	274	171	-103	-37.5%	25.9%	0	0	0	
27.2%	4221	4553	331	7.9%	27.2%	2543	2007	-536	-21.1%	27.2%	7	4	-2		27.2%	0	0	0	
28.4% 29.6%	4202 4164	3769 3722	-433 -442	-10.3%	28.4% 29.6%	2531 2375	1969 1458	-561 -917	-22.2%	28.4% 29.6%	0	0	0		28.4%	0	0	0	
29.6%	3976	2859	-442	-10.6%	30.9%	2375	1458	-917	-38.6%	30.9%	0	0	0		29.6%	0	0	0	
32.1%	3709	2802	-906	-24.4%	32.1%	1701	1256	-446	-26.2%	32.1%	0	0	0		32.1%	0	0	0	
33.3%	3409	2658	-751	-22.0%	33.3%	1567	1144	-424	-27.0%	33.3%	Ő	0	0		33.3%	0	0	0	
34.6%	3214	2444	-769	-23.9%	34.6%	1365	1121	-244	-17.9%	34.6%	0	0	0		34.6%	0	0	0	
35.8%	3121	2443	-679	-21.7%	35.8%	1304	1026	-278	-21.3%	35.8%	0	0	0		35.8%	0	0	0	
37.0%	2867	2413	-454	-15.8%	37.0%	1266	761	-505	-39.9%	37.0%	0	0	0		37.0%	0	0	0	
38.3%	2787	2230	-557	-20.0%	38.3%	1110	638	-472	-42.5%	38.3%	0	0	0		38.3%	0	0	0	
39.5%	2531	2124	-407	-16.1%	39.5%	1051	508 439		-51.7%	39.5%	0	0	0		39.5%	0	0	0	
40.7% 42.0%	2503 2452	2117 2042	-386 -410	-15.4% -16.7%	40.7% 42.0%	935 598	387	-496 -211	-53.0% -35.3%	40.7% 42.0%	0	0	0		40.7% 42.0%	0	0	0	
43.2%	2444	2028	-416	-17.0%	43.2%	508	307	-201	-39.6%	43.2%	0	0	0		43.2%	0	0	0	
44.4%	1429	1415	-14	-1.0%	44.4%	504	183	-321	-63.7%	44.4%	0	õ	0		44.4%	0	0	0	
45.7%	1202	1089	-113	-9.4%	45.7%	416	183	-233	-56.0%	45.7%	0	0	0		45.7%	0	0	0	
46.9%	1153	1084	-70	-6.1%	46.9%	406	152	-254	-62.6%	46.9%	0	0	0		46.9%	0	0	0	
48.1%	1064	963	-101	-9.5%	48.1%	333	147	-186	-55.8%	48.1%	0	0	0		48.1%	0	0	0	
49.4%	1053	961	-92	-8.7%	49.4%	302	142	-160	-53.0%	49.4%	0	0	0		49.4%	0	0	0	
50.6% 51.9%	866 776	880 750	13	1.6%	50.6% 51.9%	217 171	105 80	-112 -91	-51.7% -53.4%	50.6% 51.9%	0	0	0		50.6% 51.9%	0	0	0	
53.1%	754	646	-26 -108	-14.3%	53.1%	156	18	-138	-53.4%	53.1%	0	0	0		53.1%	0	0	0	
54.3%	382	401	108	4.9%	54.3%	95	0	-95	=00.3 %	54.3%	0	0	0		54.3%	0	0	0	
55.6%	274	176	-98	-35.8%	55.6%	33	0	-33		55.6%	0	0	0		55.6%	0	0	õ	
56.8%	149	149	0		56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0	0	
58.0%	137	131	-6		58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	131	59	-72		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	53	48	-5		60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7%	31	36	5		61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0	0	
63.0% 64.2%	21 1	8	-13 -1		63.0% 64.2%	0	0	0		63.0% 64.2%	0	0	0		63.0% 64.2%	0	0	0	
65.4%	0	0	- 1		65.4%	0	0	0		65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	ŏ		66.7%	0	0	0		66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	Ō	Ō		67.9%	0	Ō	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% 72.8%	0	0	0	
72.8% 74.1%	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	
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%	Ő	Ő	0		79.0%	0	Ő	Ő		79.0%	ő	Ő	Ő		79.0%	ō	ŏ	Ő	
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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		86.4%	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	ō	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% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 98.8%	0	0	0		97.5% 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	
100.070	0.0	0.0	0.0		100.070	0.0	0.0	0.0		100.076	0.0	0.0	0.0		100.076	0.0	0.0	0.0	

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

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

Percent

(%) 0.0% 1.2%

2.5% 3.7%

4.9% 6.2%

7.4% 8.6% 9.9% 11.1% 12.3%

13.6% 14.8%

14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

21.0% 22.2% 23.5% 24.7% 25.9% 27.2% 28.4%

29.6% 30.9% 32.1%

32.1% 33.3% 34.6% 35.8% 37.0% 38.3% 39.5% 40.7% 42.0% 43.2% 44.4%

44.4% 45.7%

46.9% 48.1% 49.4% 50.6%

51.9% 53.1% 54.3%

54.3% 55.6% 56.8% 58.0% 59.3%

59.3% 60.5% 61.7% 63.0% 64.2% 65.4% 66.7% 66.7% 67.9%

69.1% 69.1% 70.4% 71.6% 72.8%

74.1% 75.3% 76.5% 77.8% 79.0%

79.0% 80.2% 81.5% 82.7% 84.0% 85.2%

86.4% 87.7%

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

Exceedance Probability

	July		FIODADIII	y UI EXCI			August						September		
No Action Alternative	Alternative B	Absolute			Percent	No Action Alternative	Alternative B	Absolute		Perc		No Action Alternative	Alternative B	Absolute	
		Difference	Relative		Exceedance			- Difference	Relative	Exceed	ance _			Difference	Relative
Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)		Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probal		Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
(CFS)	(CFS)	0			(%)	(CFS)	(CFS)	0		(%)	(CFS)	(CFS)	0	
0	0	0			1.2%	0	0	0		1.2		0	0	0	
0	0	0			2.5%	0	0	0		2.5		0	0	0	
Ō	0	õ			3.7%	Ō	Ō	0		3.7		Ő	0	Ő	
0	0	0			4.9%	0	0	0		4.9	%	0	0	0	
0	0	0			6.2%	0	0	0		6.2	%	0	0	0	
0	0	0			7.4%	0	0	0		7.4	%	0	0	0	
0	0	0			8.6%	0	0	0		8.6	%	0	0	0	
0	0	0			9.9%	0	0	0		9.9		0	0	0	
0	0	0			11.1%	0	0	0		11.1		0	0	0	
0	0	0			12.3%	0	0	0		12.3		0	0	0	
0	0	0			13.6%	0	0	0		13.6		0	0	0	
0	0	0			14.8%	0	0	0		14.8		0	0	0	
0	0	0			16.0%	0	0	0		16.0	1%	0	0	0	
0	0	0			17.3%	0	0	0		17.3		0	0	0	
0	0	0			18.5% 19.8%	0	0	0		18.5		0	0	0	
0	0	0			21.0%	0	0	0		21.0	170 10/	0	0	0	
0	0	0			22.2%	0	0	0		22.2		0	0	0	
0	0	0			23.5%	0	0	0		23.5	%	0	0	0	
0	õ	0			24.7%	0	0	0		24.7		0	0	0	
0	0	0			25.9%	0	0	0		25.9		0	0	0	
0	õ	Ő			27.2%	õ	õ	0		27.2		0	0	ő	
0	Ő	Ő			28.4%	Ő	0	0		28.4	1%	Ő	Ő	Ő	
0	0	ō			29.6%	0	0	0		29.6	%	0	0	0	
0	0	0			30.9%	0	0	0		30.9	1%	0	0	0	
0	0	0			32.1%	0	0	0		32.1		0	0	0	
0	0	0			33.3%	0	0	0		33.3		0	0	0	
0	0	0			34.6%	0	0	0		34.6		0	0	0	
0	0	0			35.8%	0	0	0		35.8		0	0	0	
0	0	0			37.0%	0	0	0		37.0		0	0	0	
0	0	0			38.3%	0	0	0		38.3	%	0	0	0	
0	0	0			39.5%	0	0	0		39.5		0	0	0	
0	0	0			40.7% 42.0%	0	0	0		40.7	% 0/	0	0	0	
0	0	0			43.2%	0	0	0		42.0		0	0	0	
0	0	0			43.2 %	0	0	0		44.4		0	0	0	
0	0	0			45.7%	0	0	0		45.7	1%	0	0	0	
0	0	0			46.9%	0	0	0		46.9		0	0	0	
Ō	Ō	0			48.1%	0	0	0		48.1	%	0	Ő	Ő	
0	0	0			49.4%	0	0	0		49.4		0	0	0	
0	0	0			50.6%	0	0	0		50.6	%	0	0	0	
0	0	0			51.9%	0	0	0		51.9	1%	0	0	0	
0	0	0			53.1%	0	0	0		53.1	%	0	0	0	
0	0	0			54.3%	0	0	0		54.3		0	0	0	
0	0	0			55.6%	0	0	0		55.6	i%	0	0	0	
0	0	0			56.8%	0	0	0		56.8		0	0	0	
0	0	0			58.0%	0	0	0		58.0		0	0	0	
0	0	0			59.3% 60.5%	0	0	0		59.3		0	0	0	
0	0	0			61.7%	0	0	0		60.5 61.7		0	0	0	
0	0	0			63.0%	0	0	0		63.0	70	0	0	0	
0	0	0			64.2%	0	0	0		64.2		0	0	0	
0	0	0			65.4%	0	0	0		65.4		0	0	0	
0	0	0			66.7%	0	0	0		66.7		0	0	0	
0	Ő	Ő			67.9%	Ő	Ő	Ő		67.9		Ő	0	Ő	
0	0	0			69.1%	0	0	0		69.1	%	0	0	0	
0	0	0			70.4%	0	0	0		70.4		0	0	0	
0	0	0			71.6%	0	0	0		71.6	i%	0	0	0	
0	0	0			72.8%	0	0	0		72.8		0	0	0	
0	0	0			74.1%	0	0	0		74.1	%	0	0	0	
0	0	0			75.3%	0	0	0		75.3		0	0	0	
0	0	0			76.5%	0	0	0		76.5		0	0	0	
0	0	0			77.8% 79.0%	0	0	0		77.8	170 10/	0	0	0	
0	0	0				0	0	0		79.0		0	0	0	
0	0	0			80.2% 81.5%	0	0	0		81.5		0	0	0	
0	0	0			82.7%	0	0	0		82.7		0	0	0	
0	0	0			84.0%	0	0	0		84.0	1%	0	0	0	
0	0	0			85.2%	0	0	0		85.2	%	0	0	0	
0	õ	0			86.4%	0	0	0		86.4		0	0	0	
0	Ő	Ő			87.7%	Ő	Ő	Ő		87.7	%	Ő	0	Ő	
0	0	0			88.9%	0	0	0		88.9	1%	0	0	0	
0	Ō	Ō			90.1%	Ō	Ō	ō		90.1	%	0	0	0	
0	0	0			91.4%	0	0	0		91.4	%	0	0	0	
0	0	0			92.6%	0	0	0		92.6		0	0	0	
0	0	0			93.8%	0	0	0		93.8		0	0	0	
0	0	0			95.1%	0	0	0		95.1		0	0	0	
0	0	0			96.3%	0	0	0		96.3		0	0	0	
0	0	0			97.5%	0	0	0		97.5		0	0	0	
0.0	0.0	0.0			98.8% 100.0%	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		100.	U /0	0.0	0.0	0.0	

Alternative C Compared to No Action Alternative

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		Long	-term Ave	rage and A	verage by	Water Ye	ar Type					
							ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear 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												

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

									Probability of			
		October					November					December
Percent	No Action Alternative	Alternative C	Absolute	Relative	Percent	No Action Alternative	Alternative C	Absolute	Relative	Percent	No Action Alternative	Alternative C
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	 Difference 	Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion
(%)	(CFS)	(CFS)	(CFS)	Difference (//)	(%)	(CFS)	(CFS)	(CFS)	Difference (76)	(%)	(CFS)	(CFS)
0.0%	0	0	0		0.0%	0	0	0		0.0%	1659	1504
1.2%	0	0	0		1.2%	0	0	0		1.2%	1365	1081
2.5%	0	0	0		2.5%	0	0	0		2.5%	907	1025
3.7%	0	0	0		3.7%	0	0	0		3.7%	617	722
4.9%	0	0	0		4.9%	0	0	0		4.9%	377	287
6.2% 7.4%	0	0	0		6.2% 7.4%	0	0	0		6.2% 7.4%	150 70	218 171
8.6%	0	0	0		8.6%	0	0	0		8.6%	6	160
9.9%	0	õ	0		9.9%	0	Ő	ő		9.9%	0	0
11.1%	0	0	0		11.1%	0	0	0		11.1%	0	0
12.3%	0	0	0		12.3%	0	0	0		12.3%	0	0
13.6%	0	0	0		13.6%	0	0	0		13.6%	0	0
14.8%	0	0	0		14.8%	0	0	0		14.8%	0	0
16.0%	0	0	0		16.0% 17.3%	0	0	0		16.0%	0	0
17.3% 18.5%	0	0	0		18.5%	0	0	0		17.3% 18.5%	0	0
19.8%	0	0	0		19.8%	0	0	0		19.8%	0	0
21.0%	0	0	Ō		21.0%	0	0	Ō		21.0%	0	Ō
22.2%	0	0	0		22.2%	0	0	0		22.2%	0	0
23.5%	0	0	0		23.5%	0	0	0		23.5%	0	0
24.7%	0	0	0		24.7%	0	0	0		24.7%	0	0
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0
27.2%	0	0	0		27.2%	0	0	0		27.2%	0	0
28.4%	0	0	0		28.4%	0	0	0		28.4%	0	0
29.6% 30.9%	0	0	0		29.6% 30.9%	0	0	0		29.6% 30.9%	0	0
32.1%	0	ő	0		32.1%	0	0	0		32.1%	0	0
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0
34.6%	0	0	0		34.6%	0	0	0		34.6%	0	0
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	0
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0
38.3%	0	0	0		38.3%	0	0	0		38.3%	0	0
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0
40.7% 42.0%	0	0	0		40.7% 42.0%	0	0	0		40.7% 42.0%	0	0
42.0%	0	0	0		43.2%	0	0	0		43.2%	0	0
44.4%	0	0	0		44.4%	0	0	0		44.4%	0	0
45.7%	0	0	0		45.7%	0	0	0		45.7%	0	0
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0
48.1%	0	0	0		48.1%	0	0	0		48.1%	0	0
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0
50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0
51.9%	0	0	0		51.9%	0	0	0		51.9%	0	0
53.1%	0	0	0		53.1%	0	0	0		53.1%	0	0
54.3% 55.6%	0	0	0		54.3% 55.6%	0	0	0		54.3% 55.6%	0	0
56.8%	0	0	0		56.8%	0	0	0		56.8%	0	0
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0
59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0
61.7%	0	0	0		61.7%	0	0	0		61.7%	0	0
63.0%	0	0	0		63.0%	0	0	0		63.0%	0	0
64.2%	0	0	0		64.2%	0	0	0		64.2%	0	0
65.4% 66.7%	0	0	0		65.4% 66.7%	0	0	0		65.4%	0	0
67.9%	0	0	0		67.9%	0	0	0		66.7% 67.9%	0	0
69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0
70.4%	0	0	Ő		70.4%	0	0	Ō		70.4%	0	Ō
71.6%	0	0	0		71.6%	0	0	0		71.6%	0	0
72.8%	0	0	0		72.8%	0	0	0		72.8%	0	0
74.1%	0	0	0		74.1%	0	0	0		74.1%	0	0
75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0
79.0%	0	0	0		79.0%	0	0	0		79.0%	0	0
80.2%	0	0	0		80.2%	0	0	0		80.2%	0	0
81.5%	Ő	ŏ	0		81.5%	Ő	Ő	ő		81.5%	0	ŏ
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0
84.0%	0	0	0		84.0%	0	0	0		84.0%	0	0
85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0
87.7%	0	0	0		87.7%	0	0	0		87.7%	0	0
88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0		88.9% 90.1%	0	0
90.1% 91.4%	0	0	0		90.1%	0	0	0		90.1% 91.4%	0	0
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0
95.1%	0	0	0		95.1%	0	0	0		95.1%	0	0
96.3%	0	0	0		96.3%	0	0	ō		96.3%	0	0
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0
98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0
100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0

				January		
Absolute	Relative	Percent Exceedance	No Action Alternative	Alternative C	Absolute	Relative
Difference (CFS)	Difference (%)	Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	Difference (CFS)	Difference (%)
-155	-9.4%	0.0%	5633	5255	-379	-6.7%
-283	-20.8%	1.2%	4956	4949	-7	-0.1%
118	13.0%	2.5%	4426	3392	-1034	-23.4%
106	17.1%	3.7%	1331	1595	264	19.8%
-91	-24.0%	4.9%	1271	1221	-49	-3.9%
68	45.3%	6.2%	1147	1080	-67	-5.8%
101	144.7%	7.4%	807	704	-103	-12.8%
153	111.170	8.6%	492	399	-93	-18.8%
0		9.9%	408	205	-203	-49.8%
0		11.1%	255	84	-171	-67.1%
0		12.3%	135	71	-64	-47.3%
0			135	57	-74	
0		13.6% 14.8%	29	57	-74	-56.3% 51.5%
			29			
0		16.0%		30	5	19.2%
0		17.3%	21	0	-21	-100.0%
0		18.5%	0	0	0	
0		19.8%	0	0	0	
0		21.0%	0	0	0	
0		22.2%	0	0	0	
0		23.5%	0	0	0	
0		24.7%	0	0	0	
0		25.9%	0	0	0	
0		27.2%	0	0	0	
0		28.4%	0	0	0	
0		29.6%	0	0	0	
0	_	30.9%	0	0	0	
0		30.9%	0	0	0	
0		32.1%	0	0	0	
0			0	0	0	
		34.6%				
0		35.8%	0	0	0	
0		37.0%	0	0	0	
0		38.3%	0	0	0	
0		39.5%	0	0	0	
0		40.7%	0	0	0	
0		42.0%	0	0	0	
0		43.2%	0	0	0	
0		44.4%	0	0	0	
0		45.7%	0	0	0	
0		46.9%	0	0	0	
0		48.1%	0	0	0	
0		49.4%	0	0	0	
Ő		50.6%	0	ő	0	
0		51.9%	0	0	ő	
0		53.1%	0	0	0	
0		54.3%	0	ő	0	
0		55.6%	0	0	0	
0			0	0	0	
		56.8%				
0		58.0%	0	0	0	
0		59.3%	0	0	0	
0		60.5%	0	0	0	
0		61.7%	0	0	0	
0		63.0%	0	0	0	
0		64.2%	0	0	0	
0		65.4%	0	0	0	
0		66.7%	0	0	0	
0		67.9%	0	0	0	
0		69.1%	0	0	0	
0		70.4%	0	0	0	
0		71.6%	0	0	0	
0		72.8%	0	0	Ō	
0		74.1%	0	0	õ	
0		75.3%	0	0	0	
0		76.5%	0	0	0	
0		77.8%	0	0	0	
0		79.0%	0	0	0	
0		80.2%	0	0	0	
0		80.2%	0	0	0	
0		82.7%	0	0	0	
0		84.0%	0	0	0	
0		85.2%	0	0	0	
0		86.4%	0	0	0	
0		87.7%	0	0	0	
0		88.9%	0	0	0	
0		90.1%	0	0	Ō	
0		91.4%	ō	0	0	
0		92.6%	0	0	0	
0		93.8%	0	0	0	
0		95.1%	0	0	0	
0			0	0	0	
		96.3%				
0		97.5%	0	0	0	
		98.8%	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

		Fabrica					March		Probability of	of Exceedance		A1							
Percent		February			Percent					Percent		April			Percent		Мау		
Exceedance	No Action Alternative	Alternative C	Absolute	Relative	Exceedance	No Action Alternative	Alternative C	Absolute	Relative	Exceedance	No Action Alternative	Alternative C	Absolute	Relative	Exceedance	No Action Alternative	Alternative C	Absolute	Relative
Probability	Monthly Diversion	Monthly Diversion	- Difference	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)
(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)		(%)	(CFS)	(CFS)	(CFS)	
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% 2.5%	6536 5493	6676 4953	140 -541	2.1%	1.2% 2.5%	3196 1350	2801 1099	-394 -251	-12.3% -18.6%	1.2% 2.5%	285 225	284 173	-52	-0.1%	1.2% 2.5%	0	0	0	
2.5%	2709	4953 2715	-541	-9.8%	3.7%	994	994	-251	-18.6%	3.7%	0	173	-52	-23.1%	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%	ŏ	ő	Ő		6.2%	ő	0	Ő	
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%	888	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% 13.6%	0	0	0		12.3%	0	0	0		12.3%	0	0	0	
13.6% 14.8%	120 63	77 75	-43 12	-36.1% 19.4%	14.8%	0	0	0		13.6% 14.8%	0	0	0		13.6% 14.8%	0	0	0	
16.0%	50	36	-14	-27.4%	16.0%	0	0	0		16.0%	Ő	0	Ő		16.0%	Ő	0	0	
17.3%	41	31	-10	-25.2%	17.3%	0	0	0		17.3%	õ	ō	0		17.3%	0	0	õ	
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% 25.9%	0	0	0		24.7% 25.9%	0	0	0		24.7% 25.9%	0	0	0		24.7% 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%	õ	õ	0		29.6%	0	0	0		29.6%	õ	õ	0		29.6%	õ	ő	Ő	
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% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 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	ŏ	ŏ		39.5%	ő	0	ŏ		39.5%	ő	0	0		39.5%	ŏ	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% 49.4%	0	0	0		48.1% 49.4%	0	0	0		48.1% 49.4%	0	0	0		48.1% 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	ő	ő		51.9%	0	Ő	õ		51.9%	õ	0	0		51.9%	õ	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% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 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%	ő	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% 70.4%	0	0	0		69.1% 70.4%	0	0	0		69.1% 70.4%	0	0	0		69.1% 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%	Ő	ŏ	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% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 81.5%	0	0	0		80.2% 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	ŏ	0		84.0%	0	0	0		84.0%	0	ŏ	ő		84.0%	0	Ő	0	
85.2%	0	Ő	0		85.2%	Ő	Ő	0		85.2%	Ő	Ő	0		85.2%	Ő	Ő	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% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 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	
								0				0	0						
98.8% 100.0%	0	0	0.0		98.8% 100.0%	0.0	0.0	0.0		98.8% 100.0%	0	0.0	0		98.8% 100.0%	0	0	0	

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

		June					
Percent Exceedance	No Action Alternative	Alternative C	Absolute	Relative	Percent Exceedance	No Action Alternative	
Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	
(%)	(CFS)	(CFS)			(%)	(CFS)	_
0.0%	0	0	0		0.0%	0	
2.5%	0	0	0		2.5%	0	
3.7%	Ő	0	Ő		3.7%	Ő	
4.9%	0	0	0		4.9%	0	
6.2%	0	0	0		6.2%	0	
7.4%	0	0	0		7.4%	0	
8.6%	0	0	0		8.6%	0	
9.9%	0	0	0		9.9%	0	
11.1% 12.3%	0	0	0		11.1% 12.3%	0	
13.6%	0	0	0		13.6%	0	
14.8%	õ	0	ő		14.8%	ŏ	
16.0%	0	0	0		16.0%	0	
17.3%	0	0	0		17.3%	0	
18.5%	0	0	0		18.5%	0	
19.8%	0	0	0		19.8%	0	
21.0%	0	0	0		21.0%	0	
22.2% 23.5%	0	0	0		22.2% 23.5%	0	
23.5%	0	0	0		23.5%	0	
25.9%	0	0	0		25.9%	0	
27.2%	ő	0	0		27.2%	ů 0	
28.4%	0	0	Ő		28.4%	0	
29.6%	0	0	0		29.6%	0	
30.9%	0	0	0		30.9%	0	
32.1%	0	0	0		32.1%	0	
33.3%	0	0	0		33.3%	0	
34.6%	0	0	0		34.6%	0	
35.8%	0	0	0		35.8%	0	
37.0%	0	0			37.0%	0	
38.3% 39.5%	0	0	0		38.3% 39.5%	0	
40.7%	0	0	0		40.7%	0	
42.0%	0	0	0		42.0%	0	
43.2%	0	0	Ő		43.2%	0	
44.4%	0	0	0		44.4%	0	
45.7%	0	0	0		45.7%	0	
46.9%	0	0	0		46.9%	0	
48.1%	0	0	0		48.1%	0	
49.4%	0	0	0		49.4%	0	
50.6%	0	0	0		50.6%	0	
51.9% 53.1%	0	0	0		51.9% 53.1%	0	
54.3%	0	0	0		54.3%	0	
55.6%	0	0	0		55.6%	0	
56.8%	0	0	0		56.8%	0	
58.0%	0	0	0		58.0%	0	
59.3%	0	0	0		59.3%	0	
60.5%	0	0	0		60.5%	0	
61.7%	0	0	0		61.7%	0	
63.0%	0	0	0		63.0%	0	
64.2% 65.4%	0	0	0		64.2% 65.4%	0	
66.7%	0	0	0		66.7%	0	
67.9%	0	0	0		67.9%	0	
69.1%	0	0	0		69.1%	0	
70.4%	0	0	0		70.4%	0	
71.6%	0	0	0		71.6%	0	
72.8%	0	0	0		72.8%	0	
74.1%	0	0	0		74.1%	0	
75.3%	0	0	0		75.3%	0	
76.5% 77.8%	0	0	0		76.5% 77.8%	0	
79.0%	0	0	0		79.0%	0	
80.2%	0	0	0		80.2%	0	
81.5%	õ	Ő	ő		81.5%	ŏ	
82.7%	0	0	0		82.7%	0	
84.0%	0	0	0		84.0%	0	
85.2%	0	0	0		85.2%	0	
86.4%	0	0	0		86.4%	0	
87.7%	0	0	0		87.7%	0	
88.9%	0	0	0		88.9%	0	
90.1%	0	0	0		90.1%	0	
91.4%	0	0	0		91.4%	0	
92.6% 93.8%	0	0	0		92.6% 93.8%	0	
33.0%	0	0	0		93.8%	0	
05 1%					96.3%	0	
95.1% 96.3%	0	0					
95.1% 96.3% 97.5%	0	0	0				
96.3%	0 0 0				97.5% 98.8%	0	

	July		Trobability of L.	-		August			-		September		
No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute	
Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)
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	
0	0	0		2.5%	Ö	0	0		2.5%	0	0	0	
0	0	0		3.7%	0	0	0		3.7%	0	0	0	
0	0	0		4.9%	0	0	0		4.9%	0	0	0	
0	0	0		6.2% 7.4%	0	0	0		6.2% 7.4%	0	0	0	
0	0	0		8.6%	0	0	0		8.6%	0	0	0	
0	0	0		9.9%	0	0	ő		9.9%	0	ő	0	
0	0	0		11.1%	0	0	0		11.1%	Ő	0	0	
0	0	0		12.3%	0	0	0		12.3%	0	0	0	
0	0	0		13.6%	0	0	0		13.6%	0	0	0	
0	0	0		14.8%	0	0	0		14.8%	0	0	0	
0	0	0		16.0%	0	0	0		16.0%	0	0	0	
0	0	0		17.3%	0	0	0		17.3%	0	0	0	
0	0	0		18.5% 19.8%	0	0	0		18.5% 19.8%	0	0	0	
0	0	0		21.0%	0	0	0		21.0%	0	0	0	_
0	0	0		22.2%	0	0	ő		22.2%	0	0	0	
0	0	0		23.5%	0	0	0		23.5%	0	0	0	
0	0	0		24.7%	0	0	0		24.7%	ő	õ	0	
Ő	0	0		25.9%	Ő	Ő	Ő		25.9%	Ő	Ő	Ő	
0	0	0		27.2%	0	0	0		27.2%	0	0	0	
0	0	0		28.4%	0	0	0		28.4%	0	0	0	
0	0	0		29.6%	0	0	0		29.6%	0	0	0	
0	0	0		30.9%	0	0	0		30.9%	0	0	0	
0	0	0		32.1%	0	0	0		32.1%	0	0	0	
0	0	0		33.3% 34.6%	0	0	0		33.3% 34.6%	0	0	0	
0	0	0		35.8%	0	0	0		35.8%	0	0	0	
0	0	ŏ		37.0%	0	0	ő		37.0%	0	0	0	
0	0	0		38.3%	0	0	0		38.3%	0	0	0	
0	0	0		39.5%	0	0	0		39.5%	ō	Ō	Ō	
0	0	0		40.7%	0	0	0		40.7%	0	0	0	
0	0	0		42.0%	Ö	0	0		42.0%	0	0	0	
0	0	0		43.2%	0	0	0		43.2%	0	0	0	
0	0	0		44.4%	0	0	0		44.4%	0	0	0	
0	0	0		45.7% 46.9%	0	0	0		45.7% 46.9%	0	0	0	
0	0	0		48.1%	0	0	0		48.1%	0	0	0	_
0	0	0		49.4%	0	0	ő		49.4%	0	0	0	
Ő	0	Ő		50.6%	Ő	Ő	Ő		50.6%	ő	ő	Ő	
0	0	0		51.9%	0	0	0		51.9%	0	0	0	
0	0	0		53.1%	0	0	0		53.1%	0	0	0	
0	0	0		54.3%	0	0	0		54.3%	0	0	0	
0	0	0		55.6%	0	0	0		55.6%	0	0	0	
0	0	0		56.8%	0	0	0		56.8%	0	0	0	
0	0	0		58.0% 59.3%	0	0	0		58.0% 59.3%	0	0	0	
0	0	0		60.5%	0	0	0		60.5%	0	0	0	
0	0	ŏ		61.7%	0	0	ő		61.7%	0	ő	0	
0	0	0		63.0%	0	0	0		63.0%	0	0	0	
0	0	0		64.2%	0	0	0		64.2%	0	0	0	
0	0	0		65.4%	0	0	0		65.4%	0	0	0	
0	0	0		66.7%	0	0	0		66.7%	0	0	0	
0	0	0		67.9%	0	0	0		67.9%	0	0	0	
0	0	0		69.1% 70.4%	0	0	0		69.1% 70.4%	0	0	0	
0	0	0		70.4%	0	0	0		70.4%	0	0	0	
0	0	0		72.8%	0	0	0		72.8%	0	0	0	
0	0	0		74.1%	0	0	0		74.1%	0	0	0	
0	0	0		75.3%	Ő	Ő	0		75.3%	0	Ő	0	
0	0	0		76.5%	0	0	0		76.5%	0	0	0	
0	0	0		77.8%	0	0	0		77.8%	0	0	0	
0	0	0		79.0%	0	0	0		79.0%	0	0	0	
0	0	0		80.2%	0	0	0		80.2%	0	0	0	
0	0	0		81.5% 82.7%	0	0	0		81.5% 82.7%	0	0	0	
0	0	0		84.0%	0	0	0		84.0%	0	0	0	
0	0	0		85.2%	0	0	0		85.2%	0	0	0	
0	0	0		86.4%	0	0	0		86.4%	0	0	0	
0	0	0		87.7%	Ō	Ō	Ō		87.7%	0	0	0	
0	0	0		88.9%	0	0	0		88.9%	0	0	0	
0	0	0		90.1%	0	0	0		90.1%	0	0	0	
0	0	0		91.4%	0	0	0	_	91.4%	0	0	0	
0	0	0		92.6%	0	0	0		92.6%	0	0	0	
0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0	
0	0	0		95.1% 96.3%	0	0	0		95.1%	0	0	0	
0	0	0		90.3%	0	0	0		97.5%	0	0	0	
0	0	0		98.8%	0	0	ő		98.8%	0	0	0	
0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0	

		Long	-term Aver	rage and A	verage by	Water Ye	ear Type					
					М	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lon	g-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 Ye	ar Types	1						
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%)			1.070	100.070								
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	U	0	12.3%	5	5	5	5	5	5	5	5	0
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	U	0	0	U	0	J	U	J	U	J	J	U
1 Based on the 82-year simulation period												





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

January

Alternative C

Monthly Diversion

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0.0

Absolute Difference (CFS)

-165

-296 -184 -207 -241 -182 -65 -67 -40 -147 -29 -6 -1

0
0
0

Relative Difference (%)

> -3.0% -7.5% -5.0% -9.0% -14.6% 12.6% 12.6% 12.6% -15.1% -5.5% -65.1% -14.6% -15.1% -9.7% -44.6% -11.6% -2.8% 42.5%

-		October					November		Probabili	ity of Exceed	ance		December					
Percent					Percent						Percent					Percent		
Exceedance	No Action Alternative	Alternative C	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative C	Absolute Difference	Relative	E	xceedance	No Action Alternative	Alternative C	Absolute Difference	Relative	Exceedance	No Action Alternative	
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	1	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	
(%)	(CFS)	(CFS)			(%)	(CFS)	(CFS)	. ,			(%)	(CFS)	(CFS)	. ,		(%)	(CFS)	
0.0%	0	0	0		0.0%	0	8	8			0.0%	1010	1183	172	17.0%	0.0%	5535 3947	
1.2%	0	0	0		1.2%	0	0	0				1009	1101	92	9.1%	1.2%		
2.5% 3.7%	0	0	0		2.5% 3.7%	0	0	0			2.5%	969 839	974 692	5 -146	0.5%	2.5%	3653 2312	
3.7%	0	0	0		3.7%	0	0	0			3.7%	839 494	523		-17.4%	3.7%	2312	
6.2%	0	0	0		6.2%	0	0	0			4.9% 6.2%	351	437	29 86	24.5%	4.9% 6.2%	1025	
7.4%	0	0	0		7.4%	0	0	0			7.4%	74	231	157	24.5%	7.4%	1023	
8.6%	0	0	0		8.6%	0	0	0			8.6%	53	144	92	175.1%	8.6%	890	
9.9%	0	0	0		9.9%	0	0	0			9.9%	28	37	9	33.1%	9.9%	594	
11.1%	0	0	0		11.1%	0	0	0			11.1%	0	36	36	00.170	11.1%	571	
12.3%	0	0	0		12.3%	0	0	ő			12.3%	0	10	10		12.3%	446	
13.6%	0	0	0		13.6%	0	0	0			13.6%	0	0	0		13.6%	444	
14.8%	0	0	ő		14.8%	ő	0	ő			14.8%	0	ő	ő		14.8%	414	
16.0%	0	0	0		16.0%	0	0	0			16.0%	0	0	0		16.0%	309	
17.3%	0	0	0		17.3%	0	0	0			17.3%	0	0	0		17.3%	213	
18.5%	0	0	0		18.5%	0	0	0			18.5%	0	0	0		18.5%	77	
19.8%	0	0	0		19.8%	0	0	0			19.8%	0	0	0		19.8%	53	
21.0%	0	0	0		21.0%	0	0	0			21.0%	0	0	0		21.0%	47	
22.2%	0	0	0		22.2%	0	0	0			22.2%	0	0	0		22.2%	26	
23.5%	0	0	0		23.5%	0	0	0			23.5%	0	0	0		23.5%	18	
24.7%	0	0	0		24.7%	0	0	0			24.7%	0	0	0		24.7%	10	
25.9%	0	0	0		25.9%	0	0	0			25.9%	0	0	0		25.9%	0	
27.2%	0	0	0		27.2%	0	0	0			27.2%	0	0	0		27.2%	0	
28.4%	0	0	0		28.4%	0	0	0			28.4%	0	0	0		28.4%	0	
29.6%	0	0	0		29.6%	0	0	0			29.6%	0	0	0		29.6%	0	
30.9%	0	0	0		30.9%	0	0	0			30.9%	0	0	0		30.9%	0	
32.1%	0	0	0		32.1%	0	0	0		_	32.1%	0	0	0		32.1%	0	
33.3%	0	0	0		33.3% 34.6%	0	0	0			33.3% 34.6%	0	0	0		33.3%	0	
34.6%						0		0				0				34.6%		
35.8% 37.0%	0	0	0		35.8% 37.0%	0	0	0			35.8% 37.0%	0	0	0		35.8% 37.0%	0	
38.3%	0	0	0		38.3%	0	0	0			38.3%	0	0	0		38.3%	0	
39.5%	0	0	0		38.3%	0	0	0			39.5%	0	0	0		39.5%	0	
40.7%	0	0	0		40.7%	0	0	0			40.7%	0	0	0		40.7%	0	
40.7%	0	0	0		40.7%	0	0	0			40.7%	0	0	0		40.7%	0	
43.2%	0	0	0		43.2%	0	0	0			43.2%	0	0	0		43.2%	0	
44.4%	0	0	ő		44.4%	0	0	0			44.4%	0	ő	0		44.4%	ő	
45.7%	0	0	0		45.7%	0	0	Ő			45.7%	0	Ő	Ő		45.7%	Ő	
46.9%	0	0	0		46.9%	ō	0	0			46.9%	0	õ	0		46.9%	0	
48.1%	0	0	0		48.1%	Ő	Ő	Ő			48.1%	0	Ő	Ő		48.1%	Ő	
49.4%	0	0	0		49.4%	0	0	0			49.4%	0	0	0		49.4%	0	
50.6%	0	0	0		50.6%	0	0	0			50.6%	0	0	0		50.6%	0	
51.9%	0	0	0		51.9%	0	0	0			51.9%	0	0	0		51.9%	0	
53.1%	0	0	0		53.1%	0	0	0			53.1%	0	0	0		53.1%	0	
54.3%	0	0	0		54.3%	0	0	0			54.3%	0	0	0		54.3%	0	
55.6%	0	0	0		55.6%	0	0	0			55.6%	0	0	0		55.6%	0	
56.8%	0	0	0		56.8%	0	0	0			56.8%	0	0	0		56.8%	0	
58.0%	0	0	0		58.0%	0	0	0			58.0%	0	0	0		58.0%	0	
59.3%	0	0	0		59.3%	0	0	0			59.3%	0	0	0		59.3%	0	
60.5%	0	0	0		60.5%	0	0	0			60.5%	0	0	0		60.5%	0	
61.7%	0	0	0		61.7%	0	0	0			61.7%	0	0	0		61.7%	0	
63.0%	0	0	0		63.0%	0	0	0			63.0%	0	0	0		63.0%	0	
64.2%	0	0	0		64.2%	0	0	0		_	64.2%	0	0	0		64.2%	0	
65.4% 66.7%	0	0	0		65.4% 66.7%	0	0	0			65.4% 66.7%	0	0	0		65.4%	0	
67.9%	0	0	0		67.9%	0	0	0			67.9%	0	0	0		66.7% 67.9%	0	
69.1%	0	0	0		69.1%	0	0	0			69.1%	0	0	0		69.1%	0	
70.4%	0	0	0		70.4%	0	0	0			70.4%	0	0	0		70.4%	0	
71.6%	0	0	0		71.6%	0	0	0			71.6%	0	0	0		71.6%	0	
72.8%	0	0	0		72.8%	0	0	0			72.8%	0	0	0		72.8%	0	
74.1%	0	0	ő		74.1%	0	0	0			74.1%	0	0	ő		74.1%	ő	
75.3%	0	0	0		75.3%	0	0	0			75.3%	0	0	0		75.3%	ő	
76.5%	0	0	õ		76.5%	õ	0	õ			76.5%	0	õ	0		76.5%	0	
77.8%	0	0	0		77.8%	0	0	0			77.8%	0	0	0		77.8%	0	
79.0%	0	0	0		79.0%	0	0	0			79.0%	0	0	0		79.0%	0	
80.2%	0	0	0		80.2%	0	0	0			80.2%	0	0	0		80.2%	0	
81.5%	0	0	0		81.5%	0	0	0			81.5%	0	0	0		81.5%	0	
82.7%	0	0	0		82.7%	0	0	0			82.7%	0	0	0		82.7%	0	
84.0%	0	0	0		84.0%	0	0	0			84.0%	0	0	0		84.0%	0	
85.2%	0	0	0		85.2%	0	0	0			85.2%	0	0	0		85.2%	0	
86.4%	0	0	0		86.4%	0	0	0			86.4%	0	0	0		86.4%	0	
87.7%	0	0	0		87.7%	0	0	0			87.7%	0	0	0		87.7%	0	
88.9%	0	0	0		88.9%	0	0	0			88.9%	0	0	0		88.9%	0	
90.1%	0	0	0		90.1%	0	0	0			90.1%	0	0	0		90.1%	0	
91.4%	0	0	0		91.4%	0	0	0			91.4%	0	0	0		91.4%	0	
92.6%	0	0	0		92.6%	0	0	0			92.6%	0	0	0		92.6%	0	
93.8%	0	0	0		93.8%	0	0	0			93.8%	0	0	0		93.8%	0	
95.1%	0	0	0		95.1%	0	0	0			95.1%	0	0	0		95.1%	0	
96.3%	0	0	0		96.3%	0	0	0		_	96.3%	0	0	0		96.3%	0	
97.5%	0	0	0		97.5%	0	0	0			97.5%	0	0	0		97.5%	0	
98.8%	0	0	0		98.8%	0	0	0			98.8%	0	0	0		98.8%	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	

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

Proof to be discributed Match Monte Match Mont			February			-		March		FIODADIII	y of Exceedance		April			-		May		
Name Name <th< th=""><th></th><th>No Action Alternative</th><th></th><th>Absolute</th><th></th><th></th><th>No Action Alternative</th><th>Alternative C</th><th>Absolute</th><th></th><th></th><th>No Action Alternative</th><th></th><th>Absolute</th><th></th><th></th><th>No Action Alternative</th><th>Alternative C</th><th>Absolute</th><th></th></th<>		No Action Alternative		Absolute			No Action Alternative	Alternative C	Absolute			No Action Alternative		Absolute			No Action Alternative	Alternative C	Absolute	
	Exceedance																		Difference	Relative
100 100 <th>Probability</th> <th></th> <th>Monthly Diversion</th> <th></th> <th>Difference (%)</th> <th></th> <th></th> <th></th> <th></th> <th>Difference (%)</th> <th></th> <th></th> <th>Monthly Diversion</th> <th></th> <th>Difference (%)</th> <th></th> <th></th> <th>Monthly Diversion (CFS)</th> <th>(CFS)</th> <th>Difference (%)</th>	Probability		Monthly Diversion		Difference (%)					Difference (%)			Monthly Diversion		Difference (%)			Monthly Diversion (CFS)	(CFS)	Difference (%)
1 52 954 107 854 456 126 970 710 125 970 710 1 155 970 710 1 155 970 710 1 155 970 710 155 970 710 155 970 710 155 970 710 155 970 710 155 970 710 155 970	(%)				0.29/	(%)				0.0%	(%)				0.0%	(%)		0	0	
104 104 104 104 104 104 105 <td>1.2%</td> <td>9304</td> <td>8747</td> <td></td> <td>-6.0%</td> <td>1.2%</td> <td>5565</td> <td></td> <td></td> <td>-12.9%</td> <td>1.2%</td> <td>737</td> <td>738</td> <td>1</td> <td>0.1%</td> <td>1.2%</td> <td></td> <td>0</td> <td>0</td> <td></td>	1.2%	9304	8747		-6.0%	1.2%	5565			-12.9%	1.2%	737	738	1	0.1%	1.2%		0	0	
3 Nr. 3 22 3 M6 2 0 5 7% 3 25 110 -17 175 176 27 292 2 9.95 3 Nr. 0 7 45 102 102 101 102<														-83				0	Ő	
45. 173 173 173 173 173 173 173 173 173 173 174 <td>3.7%</td> <td>3323</td> <td>3346</td> <td>23</td> <td>0.7%</td> <td>3.7%</td> <td>1332</td> <td>1160</td> <td>-172</td> <td>-12.9%</td> <td>3.7%</td> <td></td> <td>229</td> <td>2</td> <td>0.8%</td> <td>3.7%</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	3.7%	3323	3346	23	0.7%	3.7%	1332	1160	-172	-12.9%	3.7%		229	2	0.8%	3.7%	0	0	0	
7.6 102 113 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 0 0 0 105 0 1137 105 104 105 105 105 105 0 0 0 1155 0 0 0 1155 0 0 0 1155 0 0 0 1155 0 0 0 1155 0 0 0 1155 0	4.9%	1751	1733	-19	-1.1%	4.9%			-98	-7.9%	4.9%	96	96	0	-0.2%	4.9%	0	0	0	
show show <td>6.2%</td> <td></td> <td>1437</td> <td></td> <td></td> <td>6.2%</td> <td></td> <td></td> <td></td> <td></td> <td>6.2%</td> <td></td> <td></td> <td></td> <td></td> <td>6.2%</td> <td></td> <td>0</td> <td>0</td> <td></td>	6.2%		1437			6.2%					6.2%					6.2%		0	0	
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11.5% 562 512 11.5% 12.5% 11.5% 12.7% 12.																		0	0	
12.78 862 641 441 20/5 12.78 12.78 0 0 12.78 0 1450 501 610 1450										0.2%	9.9%	0	0	0			0	0	0	
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Table SW-50-7b Moulton Weir Spills into Sutter Bypass, Monthly Diversion Probability of Exceedance

No Action Alternative

Monthly Diversion (CFS)

Percent	No Action Alternative	June Alternative C	Absolute	D-1-th	Percent
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%)	Exceedance Probability
(%)	(CFS)	(CFS)	(010)		(%)
0.0%	0	0	0		0.0%
2.5%	0	0	0		2.5%
3.7%	0	0	0		3.7%
4.9%	ő	õ	0		4.9%
6.2%	Ő	0	0		6.2%
7.4%	õ	0	0		7.4%
8.6%	0	0	0		8.6%
9.9%	0	0	0		9.9%
11.1%	0	0	0		11.1%
12.3%	0	0	0		12.3%
13.6%	0	0	0		13.6%
14.8%	0	0	0		14.8%
16.0%	0	0	0		16.0%
17.3% 18.5%	0	0	0		17.3% 18.5%
19.8%	0	0	0		19.8%
21.0%	0	0	0		21.0%
22.2%	ő	õ	0		22.2%
23.5%	Ő	ő	0		23.5%
24.7%	0	0	0		24.7%
25.9%	0	0	0		25.9%
27.2%	0	0	0		27.2%
28.4%	0	0	0		28.4%
29.6%	0	0	0		29.6%
30.9%	0	0	0		30.9%
32.1%	0	0	0		32.1%
33.3%	0	0	0		33.3%
34.6%	0	0	0		34.6%
35.8%	0	0	0		35.8%
37.0%	0	0	0		37.0%
38.3%	0	0	0		38.3% 39.5%
39.5% 40.7%	0	0	0		40.7%
40.7%	0	0	0		40.7%
43.2%	0	0	0		43.2%
44.4%	0	0	0		44.4%
45.7%	0	0	Ő		45.7%
46.9%	0	0	0		46.9%
48.1%	Ō	0	0		48.1%
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		Long-	term Ave	rage and A	Average by	Water Ye	ar Type					
		Ť			M	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lo	ng-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 Y	ear 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%							

3 Relative difference of the monthly average



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



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

		October					November		FIODADIIIty	of Exceedance	·	December				·	January		
Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability		Monthly Diversion	- Difference	Relative	Exceedance Probability	Monthly Diversion	Monthly Diversion	- Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	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% 7.4%	0	0	0		6.2% 7.4%	0	27	27		6.2%	8205 7529	7431 7059	-774 -470	-9.4% -6.2%	6.2% 7.4%	20927	21562	636 -914	3.0%
8.6%	0	0	0		7.4% 8.6%	0	0	0		7.4%	3842	4820	-470	-6.2% 25.4%	8.6%	19015	18100	-914	-4.8%
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% 19.8%	0	0	0		18.5% 19.8%	0	0	0		18.5% 19.8%	1632 1364	2006	374 -354	22.9% -26.0%	18.5% 19.8%	7295 6835	6637 5833	-658 -1003	-9.0% -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%
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24.7%	õ	õ	0		24.7%	0	0	0		24.7%	444	329	-115	-25.8%	24.7%	3793	3532	-261	-6.9%
25.9%	Ō	0	0		25.9%	0	0	Ő		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%
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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%
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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	
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49.4%	0	0	0		50.6%	0	0	0		50.6%	0	0	0		50.6%	0	0	0	
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69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
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85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0		85.2%	0	0	0	
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98.8% 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

Exceedance No Action Alternative Alternative C Absolute Relative Relative Relative Relative Absolute Relative Absolute Relative Absolute Relative Absolute Relative Absolute Relative Absolute Relative R			February			-		March					April					May		
Name Description	Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute	
				Difference					Difference		Exceedance Probability			Difference					Difference	Difference (%)
				(CFS)	Difference (76)				(CFS)	Difference (70)				(CFS)	Difference (70)				(CFS)	Difference (14)
	0.0%	53046	53019	-27	-0.1%	0.0%	46969	46968		0.0%	0.0%	17385	17401	17	0.1%	0.0%	2239	2209		-1.3%
																				-0.6%
Cho Dist Dist <thd< td=""><td>2.5%</td><td>33038</td><td>33475</td><td></td><td>1.3%</td><td>2.5%</td><td>31132</td><td>31094</td><td>-38</td><td>-0.1%</td><td>2.5%</td><td></td><td>13678</td><td></td><td></td><td>2.5%</td><td></td><td></td><td></td><td>-45.0%</td></thd<>	2.5%	33038	33475		1.3%	2.5%	31132	31094	-38	-0.1%	2.5%		13678			2.5%				-45.0%
																	-			
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	8.6%	17950		-1634					-1740	-13.7%	8.6%	2869	2987	118		8.6%	0			
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										-3.3%	14.8%	1259	1223		-2.9%		0			
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PD PD<					-14.6%												0			
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1 1 1 1 1 1 1 1 0 0 2 1 0	29.6%	5275	4025	-1251	-23.7%	29.6%	1574	1076	-498	-31.7%	29.6%	0	0	0		29.6%	0	0		
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95.1% 0 0 95.1% 0 0 95.1% 0 0 95.1% 0						92.6%					92.6%		0	0		92.6%	0			
96.3% 0 0 0 96.3% 0 0 96.3% 0 0 96.3% 0			0										0	0			0	0	0	
97.5% 0 0 0 97.5% 0 0 0 97.5% 0 0 0 97.5% 0													0	0			0			
98.8% 0 0 0 98.8% 0 0 0 98.8% 0 0 0 0 0 98.8% 0 0 0 0	97.5%										90.3%									
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 0.0 0.0 0.0 0.0 0.0 0.	98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0			98.8%		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

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

Percent

(%) 0.0% 1.2%

2.5% 3.7%

4.9% 6.2%

7.4% 8.6% 9.9% 11.1% 12.3%

12.3% 13.6% 14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

21.0% 22.2% 23.5% 24.7% 25.9% 27.2% 28.4% 29.6% 30.9% 32.1%

32.1% 33.3% 34.6% 35.8% 37.0% 38.3% 39.5% 40.7% 42.0% 43.2% 44.4%

44.4% 45.7%

46.9% 48.1% 49.4% 50.6%

51.9% 53.1% 54.3%

54.3% 55.6% 56.8% 59.3% 60.5% 61.7% 63.0% 64.2% 65.4% 66.7% 67.9% 69.1%

69.1% 69.1% 70.4% 71.6% 72.8%

72.8% 74.1% 75.3% 76.5% 77.8% 79.0% 80.2% 81.5% 82.7% 84.0% 85.2% 86.4%

86.4% 87.7%

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

Exceedance Probability

		July		Probability	y 01 LAC	eedance		August						September		
N	Action Alternative	Alternative C	Absolute			Percent	No Action Alternative	Alternative C	Absolute			Percent	No Action Alternative	Alternative C	Absolute	
e			Difference	Relative		Exceedance			Difference	Relative		ceedance			Difference	Relative
/	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)		Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Pi	robability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)
	(CF3) 0	(CF3) 0	0			0.0%	0	0	0			0.0%	0	0	0	
	Ō	0	0			1.2%	0	0	0			1.2%	0	0	0	
	0	0	0			2.5%	0	0	0			2.5%	0	0	0	
	0	0	0			3.7%	0	0	0			3.7%	0	0	0	
	0	0	0			4.9%	0	0	0			4.9%	0	0	0	
	0	0	0			6.2%	0	0	0			6.2%	0	0	0	
	0	0	0			7.4% 8.6%	0	0	0		_	7.4% 8.6%	0	0	0	
	0	0	0			9.9%	0	0	0			9.9%	0	0	0	
	0	0	0			11.1%	0	0	0			11.1%	0	0	0	
	ő	õ	õ			12.3%	õ	0	ő			12.3%	ŏ	ŏ	ő	
	0	0	0			13.6%	0	0	0			13.6%	0	0	0	
	0	0	0			14.8%	0	0	0			14.8%	0	0	0	
	0	0	0			16.0%	0	0	0			16.0%	0	0	0	
	0	0	0			17.3%	0	0	0			17.3%	0	0	0	
	0	0	0			18.5%	0	0	0			18.5%	0	0	0	
	0	0	0			19.8% 21.0%	0	0	0		_	19.8% 21.0%	0	0	0	
	0	0	0			22.2%	0	0	0			22.2%	0	0	0	
	0	0	0			23.5%	0	0	0			23.5%	0	0	0	
	0	0	0			24.7%	0	0	0			24.7%	0	Ő	0	
	0	0	0			25.9%	0	0	0			25.9%	0	0	Ő	
	0	0	0			27.2%	0	0	0			27.2%	0	0	0	
	0	0	0			28.4%	0	0	0			28.4%	0	0	0	
	0	0	0			29.6%	0	0	0			29.6%	0	0	0	
	0	0	0			30.9% 32.1%	0	0	0			30.9% 32.1%	0	0	0	
	0	0	0			33.3%	0	0	0			33.3%	0	0	0	
	0	0	ŏ			34.6%	0	0	ő			34.6%	ő	ő	ő	
	0	0	0			35.8%	0	0	0			35.8%	0	0	0	
	0	0	0			37.0%	0	0	0			37.0%	0	0	0	
	0	0	0			38.3%	0	0	0			38.3%	0	0	0	
	0	0	0			39.5%	0	0	0			39.5%	0	0	0	
	0	0	0			40.7%	0	0	0			40.7%	0	0	0	
	0	0	0			42.0%	0	0	0			42.0%	0	0	0	
	0	0	0			43.2% 44.4%	0	0	0			43.2% 44.4%	0	0	0	
	0	0	0			44.4%	0	0	0			45.7%	0	0	0	
	0	ů l	0			46.9%	õ	0	0			46.9%	õ	0	0	
	0	0	0			48.1%	0	0	Ō			48.1%	0	0	Ō	
	0	0	0			49.4%	0	0	0			49.4%	0	0	0	
	0	0	0			50.6%	0	0	0			50.6%	0	0	0	
	0	0	0			51.9%	0	0	0			51.9%	0	0	0	
	0	0	0			53.1% 54.3%	0	0	0			53.1% 54.3%	0	0	0	
	0	0	0			55.6%	0	0	0			54.3% 55.6%	0	0	0	
	0	0	0			56.8%	0	0	0			56.8%	0	0	0	
	0	0	0			58.0%	0	0	Ő			58.0%	0	0	0	
	ō	0	0			59.3%	0	0	0			59.3%	0	0	0	
	0	0	0			60.5%	0	0	0			60.5%	0	0	0	
	0	0	0			61.7%	0	0	0			61.7%	0	0	0	
	0	0	0			63.0%	0	0	0			63.0%	0	0	0	
	0	0	0			64.2%	0	0	0			64.2%	0	0	0	
	0	0	0			65.4% 66.7%	0	0	0			65.4% 66.7%	0	0	0	
	0	0	0			67.9%	0	0	0			67.9%	0	0	0	
	0	0	0			69.1%	0	0	0			69.1%	0	0	0	
	0	0	0			70.4%	0	0	0			70.4%	0	0	0	
	0	0	0			71.6%	0	0	0			71.6%	0	0	0	
	0	0	0			72.8%	0	0	0			72.8%	0	0	0	
	0	0	0			74.1%	0	0	0			74.1%	0	0	0	
	0	0	0			75.3%	0	0	0			75.3%	0	0	0	
	0	0	0			76.5%	0	0	0			76.5%	0	0	0	
	0	0	0			77.8% 79.0%	0	0	0			77.8% 79.0%	0	0	0	
	0	0	0			80.2%	0	0	0			80.2%	0	0	0	
	0	0	0			81.5%	0	0	0			81.5%	0	0	0	
	0	0	0			82.7%	0	0	0			82.7%	0	0	0	
	0	0	0			84.0%	0	0	0			84.0%	0	0	0	
	0	0	0			85.2%	0	0	0			85.2%	0	0	0	
	0	0	0			86.4%	0	0	0			86.4%	0	0	0	
	0	0	0			87.7%	0	0	0			87.7%	0	0	0	
	0	0	0			88.9% 90.1%	0	0	0			88.9% 90.1%	0	0	0	
	0	0	0			90.1%	0	0	0			90.1%	0	0	0	
	0	0	0			92.6%	0	0	0			92.6%	0	0	0	
	0	õ	0			93.8%	õ	0	0			93.8%	õ	0	0	
	0	0	0			95.1%	0	0	Ō			95.1%	0	0	0	
	0	0	0			96.3%	0	0	0			96.3%	0	0	0	
	0	0	0			97.5%	0	0	0			97.5%	0	0	0	
	0	0	0			98.8%	0	0	0			98.8%	0	0	0	
	0.0	0.0	0.0			100.0%	0.0	0.0	0.0			100.0%	0.0	0.0	0.0	

						s, Monthly y Water Yea						
		Long	ATC	age and P		onthly Div		(5)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aua	Sep
7 margolo 1 onou			200		ng-term	mai	7491	inay	vun	• •	/ tug	000
Full Simulation Period ¹				201	ig toni							
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%				
					ear Types							
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%		-	-	-	5
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	Ö	-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%						

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		FIODADIIITY O	Exceedance		December					January		
Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute		Percent	No Action Alternative	Alternative C	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (//)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (74)
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 -1	0.7%	3.7%	5913	5363	-551	-9.3%	3.7%	11244	11308	64	0.6%
4.9% 6.2%	0	0	0		4.9% 6.2%	334 314	332 270	-1	-0.3% -14.2%	4.9% 6.2%	4807 4589	5114 4509	307 -80	6.4% -1.7%	4.9% 6.2%	10953 10456	11254 10477	301 21	2.7% 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	Ō	õ		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% 16.0%	0	0	0		14.8% 16.0%	0	0	0		14.8%	3047 2933	2643 2456	-404 -477	-13.3%	14.8% 16.0%	6139 5743	5624 4663	-516	-8.4% -18.8%
16.0%	0	0	0		16.0%	0	0	0		16.0% 17.3%	2933	2456	-4/7	-16.3% -4.3%	16.0%	5743	4663	-1080 -945	-18.8%
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	200	0.1%	19.8%	4232	3981	-250	-5.9%
21.0%	0	0	Ő		21.0%	0	0	Ō		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% 32.1%	0	0	0		30.9% 32.1%	0	0	0		30.9% 32.1%	404 398	533 439	129 41	31.9% 10.3%	30.9% 32.1%	2108 1700	1710 1703	-398 3	-18.9% 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%
33.3%	0	0	0		33.3%	0	0	0		34.6%	278	439 346	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	õ	õ		37.0%	ō	0	ō		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% 46.9%	103	143 102	40	
46.9% 48.1%	0	0	0		46.9% 48.1%	0	0	0		46.9% 48.1%	0	0	0		46.9%	98 96	47	4 -49	
49.4%	0	0	0		49.4%	0	0	0		49.4%	0	0	0		49.4%	55	34	-49	
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% 60.5%	0	0	0		59.3%	0	0	0		59.3%	0	0	0		59.3% 60.5%	0	0	0	
60.5%	0	0	0		60.5% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5%	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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0	
74.1%	0	0	0		74.1%	0	0	0		72.8%	0	0	0		72.8%	0	0	0	
74.1%	0	0	0		74.1% 75.3%	0	0	0		74.1%	0	0	0		74.1%	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%	ő	0	ő		77.8%	0	0	0		77.8%	0	ő	0		77.8%	ő	0	Ő	
79.0%	ō	ō	ő		79.0%	Ő	õ	Ő		79.0%	ő	ő	õ		79.0%	ō	õ	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% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 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	_
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
95.1%	0	Ő	0		95.1%	0	0	0		95.1%	0	ő	ŏ		95.1%	Ő	0	0	
96.3%	0	0	õ		96.3%	0	0	0		96.3%	0	ő	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	0	0	0		97.5%	0	0	Ō		97.5%	0	0	0	
	0	0	0		98.8%	0	0	0		98.8%	0	0	0		98.8%	0	0	0	
98.8% 100.0%	0.0	0.0	0.0		100.0%	0.0	0.0	0.0		100.0%	0.0	0.0			100.0%		0.0	0.0	

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

		February					March			,		April					May		
Percent	No Action Alternative	Alternative C	Absolute	Relative	Percent	No Action Alternative	Alternative C	Absolute	Relative	Percent	No Action Alternative	Alternative C	Absolute	Deletive	Percent	No Action Alternative	Alternative C	Absolute	Relative
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (A)	(%)	(CFS)	(CFS)	(CFS)	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% 3.7%	15350 13328	15597 13487	247 159	1.6% 1.2%	2.5% 3.7%	13585 11791	12770 11127	-815 -664	-6.0% -5.6%	2.5% 3.7%	8066 7657	8079 7658	13	0.2%	2.5% 3.7%	1550 873	1527 649	-22 -224	-1.4% -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	049	-224	*23.076
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	Ō	
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% 11.1%	10203 9890	9279 8999	-924 -891	-9.1% -9.0%	9.9% 11.1%	7184 6322	6275 6194	-909 -127	-12.6% -2.0%	9.9% 11.1%	3009 2471	3013 2354	4 -117	0.1% -4.7%	9.9% 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	ő	
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% 18.5%	6880 6738	6046 5653	-834 -1085	-12.1% -16.1%	17.3% 18.5%	3954 3390	3952	-2 -6	0.0%	17.3% 18.5%	1579 1525	1531 1499	-48 -27	-3.0% -1.7%	17.3% 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%	Ō	Ō	Ō	
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% 25.9%	5325 4823	4857 4535	-467 -288	-8.8% -6.0%	24.7% 25.9%	2704 2562	2469 2307	-234 -255	-8.7% -9.9%	24.7% 25.9%	305 274	286 172	-18 -102	-6.0% -37.3%	24.7% 25.9%	0	0	0	
27.2%	4023	4342	120	2.9%	27.2%	2543	2234	-309	-12.1%	27.2%	7	0	-7	*37.376	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%	Ő	Ő	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% 33.3%	3709 3409	2674 2524	-1035 -885	-27.9% -26.0%	32.1% 33.3%	1701 1567	1328 1151	-374 -416	-22.0% -26.5%	32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0	
34.6%	3214	2458	-665	-28.0%	34.6%	1365	1048	-416	-20.5%	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	Ő		35.8%	0	Ő	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% 42.0%	2503 2452	2013 1896	-490 -557	-19.6% -22.7%	40.7% 42.0%	935 598	638 404	-297 -194	-31.7% -32.4%	40.7% 42.0%	0	0	0		40.7% 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% 50.6%	1053 866	879 829	-173 -37	-16.5% -4.3%	49.4% 50.6%	302 217	132 110	-170 -106	-56.2% -49.1%	49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	0	
51.9%	776	677	-99	-12.8%	51.9%	171	83	-100	-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% 56.8%	274 149	144 109	-130 -39	-47.5%	55.6% 56.8%	33	0	-33 0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0	
58.0%	137	90	-39		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	ő		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% 65.4%	0	0	-1		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0	
66.7%	õ	õ	ŏ		66.7%	0	0	ő		66.7%	0	0	0		66.7%	ő	Ő	ő	
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% 71.6%	0	0	0		70.4%	0	0	0		70.4% 71.6%	0	0	0		70.4% 71.6%	0	0	0	
72.8%	0	0	0		71.6%	0	0	0		71.6%	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% 79.0%	0	0	0		77.8% 79.0%	0	0	0		77.8% 79.0%	0	0	0		77.8% 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%	ŏ	õ	õ		81.5%	õ	0	Ő		81.5%	ő	0	ŏ		81.5%	õ	õ	Ő	
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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 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	Ō		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% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 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%	Ő	Ő	0		97.5%	Ō	Ő	0		97.5%	Ō	Ō	0		97.5%	Ő	Ő	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

Percent	No Action Alternative	June Alternative C	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%
(%)	(CFS) 3625	(CFS) 3561	-63	4 70/
0.0%				-1.7%
1.2% 2.5%	97 0	93 0	-3	-3.6%
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	0	0	0	
7.4%	0	0	0	
8.6%	Ő	Ő	0	
9.9%	õ	õ	õ	
11.1%	0	0	0	
12.3%	ō	Ō	ō	
13.6%	0	0	0	
14.8%	0	0	0	
16.0%	0	0	0	
17.3%	0	0	0	
18.5%	0	0	0	
19.8%	0	0	0	
21.0%	0	0	0	
22.2%	0	0	0	
23.5%	0	0	0	
24.7%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	0	0	0	
32.1%	0	0	0	
33.3%	0	0	0	
34.6%	0	0	0	
35.8% 37.0%	0	0	0	
		0	0	
38.3%	0	0	0	
39.5%	0	0	0	
40.7%	0	0	0	
42.0%	0	0	0	
43.2%	0	0	0	
44.4%	0	0	0	
45.7% 46.9%	0	0	0	
	0	0	0	
48.1% 49.4%	0	0	0	
50.6%	0	0	0	
51.9%	0	0	0	
53.1%	0	0	0	
54.3%	ŏ	ŏ	ő	
55.6%	0	0	0	
56.8%	ō	Ō	ō	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	0	0	0	
63.0%	0	0	0	
64.2%	0	0	0	
65.4%	0	0	0	
66.7%	0	0	0	
67.9%	0	0	0	
69.1%	0	0	0	
70.4%	0	0	0	
71.6%	0	0	0	
72.8%	0	0	0	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	0	0	
80.2%	0	0	0	
81.5%	0	0	0	
82.7%	0	0	0	
84.0%	0	0	0	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
98.8%	0.0	0.0	0	
100.0%			0.0	

Percent

(%) 0.0% 1.2%

2.5% 3.7%

4.9% 6.2%

7.4% 8.6% 9.9% 11.1% 12.3%

13.6% 14.8%

14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

21.0% 22.2% 23.5% 24.7% 25.9% 27.2% 28.4% 29.6% 30.9% 32.1%

32.1% 33.3% 34.6% 35.8% 37.0% 38.3% 39.5% 40.7% 42.0% 43.2% 44.4%

44.4% 45.7%

46.9% 48.1% 49.4% 50.6%

51.9% 53.1% 54.3%

54.3% 55.6% 56.8% 58.0% 59.3%

59.3% 60.5% 61.7% 63.0% 64.2% 65.4% 66.7% 66.7% 67.9%

69.1% 69.1% 70.4% 71.6% 72.8%

72.8% 74.1% 75.3% 76.5% 77.8% 79.0% 80.2% 81.5% 82.7% 84.0% 85.2% 86.4%

86.4% 87.7%

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

Exceedance Probability

	July		Trobabili	.,			August		-	-			September		
No Action Alternative	Alternative C	Absolute			Percent	No Action Alternative	Alternative C	Absolute			cent	No Action Alternative	Alternative C	Absolute	
		Difference	Relative		Exceedance			Difference	Relative	Excee	dance			Difference	Relative
Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)		Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)		ability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
(CFS) 0	(CFS) 0	0			<u>(%)</u> 0.0%	(CFS) 0	(CFS) 0	0			%) 0%	(CFS) 0	(CFS) 0	0	
0	0	0			1.2%	0	0	0			2%	0	0	0	
0	0	0			2.5%	0	0	0			5%	0	0	0	
0	0	0			3.7%	0	0	0		3.	7%	0	0	0	
0	0	0			4.9%	0	0	0		4.	9%	0	0	0	
0	0	0			6.2%	0	0	0			2%	0	0	0	
0	0	0			7.4%	0	0	0		7.	4%	0	0	0	
0	0	0			8.6%	0	0	0		8.	6%	0	0	0	
0	0	0			9.9%	0	0	0			9%	0	0	0	
0	0	0			11.1%	0	0	0		11	.1%	0	0	0	
0	0	0			12.3%			0			.3%	0	0	0	
0	0	0			13.6% 14.8%	0	0	0		13	.6% .8%	0	0	0	
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0	0	0			22.2%	0	0	0			.2%	0	0	0	
0	0	0			23.5%	0	0	0			.5%	0	0	0	
0	0	0			24.7%	0	0	0			.7%	0	0	0	
0	0	0			25.9%	0	0	0			.9%	0	0	0	
0	0	0			27.2%	0	0	0			.2%	0	0	0	
0	0	0			28.4%	0	0	0		28	.4%	0	0	0	
0	0	0			29.6% 30.9%	0	0	0			.6% .9%	0	0	0	
0	0	0			30.9%	0	0	0			.9% .1%	0	0	0	
0	0	0			33.3%	0	0	0			.3%	0	0	0	
0	0	0			34.6%	0	0	ő			.6%	õ	ő	0	
0	0	0			35.8%	0	0	0		35	.8%	0	0	0	
0	0	0			37.0%	0	0	0			.0%	0	0	0	
0	0	0			38.3%	0	0	0		38	.3%	0	0	0	
0	0	0			39.5%	Ö	0	0			.5%	0	0	0	
0	0	0			40.7%	0	0	0		40	.7%	0	0	0	
0	0	0			42.0%	0	0	0			.0%	0	0	0	
0	0	0			43.2%	0	0	0			.2%	0	0	0	
0	0	0			44.4%	0	0	0		44	.4%	0	0	0	
0	0	0			45.7%	0	0	0			.7%		0	0	
0	0	0			46.9% 48.1%	0	0	0			.9% .1%	0	0	0	
0	0	0			49.4%	0	0	0			.4%	0	0	0	
0	0	0			50.6%	0	0	0			.6%	0	0	0	
0	0	0			51.9%	0	0	0			.9%	0	0	0	
0	0	0			53.1%	0	0	0		53	.1%	0	0	0	
0	0	0			54.3%	0	0	0		54	.3%	0	0	0	
0	0	0			55.6%	0	0	0		55	.6%	0	0	0	
0	0	0			56.8%	0	0	0		56	.8%	0	0	0	
0	0	0			58.0%	0	0	0		58	.0%	0	0	0	
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0	0	0			77.8%	0	0	0		70	.8%	0	0	0	
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0	0	0			82.7%	0	0	0		82	.7%	0	0	0	
0	0	0			84.0%	0	0	0		84	.0%	0	0	0	
0	0	0			85.2%	0	0	0		85	.2%	0	0	0	_
0	0	0			86.4%	0	0	0		86	.4%	0	0	0	
0	0	0			87.7%	0	0	0			.7%	0	0	0	
0	0	0			88.9%	0	0	0		88	.9%	0	0	0	
0	0	0			90.1%	0	0	0			.1%	0	0	0	
0	0	0			91.4%	0	0	0			.4%	0	0	0	
0	0	0			92.6% 93.8%	0	0	0			.6% .8%	0	0	0	
0	0	0			93.8%	0	0	0			.8%	0	0	0	
0	0	0			96.3%	0	0	0			.1%	0	0	0	
0	0	0			97.5%	0	0	0			.5%	0	0	0	
0	0	0			98.8%	0	0	0		98	.8%	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	
-	-													-	

Alternative D Compared to No Action Alternative

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		Long	-term Ave	rage and A	verage by	Water Ye	ar Type					
		-		-	М	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear Types							
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												

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

Relative Difference (%)

-2.2% -0.1% -23.4% 19.8% -3.9% -5.5% -12.8% -12.8% -12.8% -12.8% -12.8% -12.8% -36.7% -44.4% 73.9% 30.5% -100.0%

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

	February								Probability o	f Exceedance									
Percent					Percent		March			Percent		April			Percent		Мау		
Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 12366	(CFS) 12368	2	0.0%	(%)	(CFS) 7360	(CFS) 7360	0	0.0%	(%)	(CFS)	(CFS) 608	0	0.0%	<u>(%)</u> 0.0%	(CFS)	(CFS)	0	
1.2%	6536	6981	445	6.8%	0.0%	3196	2802	-394	-12.3%	0.0%	608 285	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% 6.2%	2095 1642	1922 1269	-173 -373	-8.3%	4.9% 6.2%	987 737	945 586	-42 -152	-4.2% -20.6%	4.9%	0	0	0		4.9% 6.2%	0	0	0	
7.4%	1220	1269	-373	-22.7% 3.4%	7.4%	383	425	- 152	-20.6%	6.2% 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%	ő	0	0		8.6%	Ő	0	0	
9.9%	888	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% 13.6%	391 120	287 77	-104 -43	-26.6% -36.1%	12.3% 13.6%	0	0	0		12.3% 13.6%	0	0	0		12.3% 13.6%	0	0	0	
14.8%	63	75	12	19.3%	14.8%	0	0	0		14.8%	0	0	ő		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% 19.8%	0	0	0		18.5% 19.8%	0	0	0		18.5% 19.8%	0	0	0		18.5% 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% 25.9%	0	0	0		24.7% 25.9%	0	0	0		24.7% 25.9%	0	0	0		24.7% 25.9%	0	0	0	
25.9%	0	0	0		25.9%	0	0	0		25.9%	0	0	0		25.9%	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% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	ŏ		34.6%	0	0	ŏ		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% 39.5%	0	0	0		38.3%	0	0	0		38.3% 39.5%	0	0	0		38.3% 39.5%	0	0	0	
40.7%	0	0	0		39.5% 40.7%	0	0	0		40.7%	0	0	0		40.7%	0	0	0	_
42.0%	0	ŏ	õ		42.0%	0	ŏ	Ő		42.0%	õ	õ	ő		42.0%	õ	Ő	Ő	
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% 46.9%	0	0	0		45.7% 46.9%	0	0	0		45.7% 46.9%	0	0	0		45.7% 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% 53.1%	0	0	0		51.9% 53.1%	0	0	0		51.9% 53.1%	0	0	0		51.9% 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% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 59.3%	0	0	0		58.0% 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%	Ő	ŏ	Ő		61.7%	0	ŏ	0		61.7%	õ	õ	õ		61.7%	õ	Ő	Ő	
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% 66.7%	0	0	0		65.4% 66.7%	0	0	0		65.4% 66.7%	0	0	0		65.4% 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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0	
72.8%	0	0	0		74.1%	0	0	0		72.8%	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% 80.2%	0	0	0		79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0		79.0% 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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2%	0	0	0		85.2% 86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0		86.4% 87.7%	0	0	0		87.7%	0	0	0	
88.9%	0	ő	0		88.9%	0	õ	0		88.9%	ő	Ő	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% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0		93.8%	0	0	0	
96.3%	0	0	0		96.3%	0	0	0		96.3%	0	Ō	0		96.3%	0 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

Percent	No Action Alternative	June Alternative D	Absolute		Percent
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%)	Exceedan Probabili
(%)	(CFS)	(CFS)	0		(%)
0.0%	0	0	0		0.0%
2.5%	0	0	0		2.5%
3.7%	0	0	0		3.7%
4.9%	0	0	0		4.9%
6.2%	0	0	0		6.2%
7.4%	0	0	0		7.4%
8.6%	0	0	0		8.6%
9.9%	0	0	0		9.9%
11.1%	0	0	0		11.1%
12.3%	0	0	0		12.3%
13.6%	0	0	0		13.6%
14.8%	0	0	0		14.8%
16.0%	0	0	0		16.0%
17.3%	0	0	0		17.3%
18.5% 19.8%	0	0	0		18.5% 19.8%
21.0%	0	0	0		
22.2%	0	0	0		21.0% 22.2%
23.5%	0	0	0		23.5%
24.7%	0	0	0		24.7%
25.9%	0	0	0		25.9%
27.2%	0	0	0		27.2%
28.4%	ő	Ő	0		28.4%
29.6%	0	0	0		29.6%
30.9%	0	0	0		30.9%
32.1%	0	0	0		32.1%
33.3%	0	0	0		33.3%
34.6%	0	0	0		34.6%
35.8%	0	0	0		35.8%
37.0%	0	0	0		37.0%
38.3%	0	0	0		38.3%
39.5%	0	0	0		39.5%
40.7%	0	0	0		40.7%
42.0%	0	0	0		42.0%
43.2%	0	0	0		43.2%
44.4%	0	0	0		44.4%
45.7%	0	0	0		45.7%
46.9% 48.1%	0	0	0		46.9% 48.1%
46.1%	0	0	0		48.1%
50.6%	0	0	0		50.6%
51.9%	0	0	0		51.9%
53.1%	0	0	0		53.1%
54.3%	ō	ō	0		54.3%
55.6%	0	0	0		55.6%
56.8%	0	0	0		56.8%
58.0%	0	0	0		58.0%
59.3%	0	0	0		59.3%
60.5%	0	0	0		60.5%
61.7%	0	0	0		61.7%
63.0%	0	0	0		63.0%
64.2%	0	0	0		64.2%
65.4%	0	0	0		65.4%
66.7%	0	0	0		66.7%
67.9%	0	0	0		67.9%
69.1%	0	0	0		69.1%
70.4%	0	0	0		70.4%
72.8%	0	0	0		71.6%
74.1%	0	0	0		74.1%
75.3%	0	0	0		75.3%
76.5%	0	0	0		76.5%
77.8%	0	0	0		77.8%
79.0%	0	0	0		79.0%
80.2%	0	0	0		80.2%
81.5%	ō	0	0		81.5%
82.7%	0	0	0		82.7%
84.0%	0	0	0		84.0%
85.2%	0	0	0		85.2%
86.4%	0	0	0		86.4%
87.7%	0	0	0		87.7%
88.9%	0	0	0		88.9%
90.1%	0	0	0		90.1%
91.4%	0	0	0		91.4%
92.6%	0	0	0		92.6%
93.8%	0	0	0		93.8%
95.1%	0	0	0		95.1%
96.3%	0	0	0		96.3%
97.5%	0	0	0		97.5%
98.8%	0	0	0		98.8%
100.0%	0.0	0.0	0.0		100.09

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

		Long	-term Ave	rage and A	verage by	water te	ear Type					
					М	onthly Div	ersion (CF	S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
				Lor	ng-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 Y	ear Types	2						
Net (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%)			0.070	100.070								
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	Ō	0	0	0	0	0	0	0
Percent Difference	0	0	30.9%	0	0	0	0	0	0	0	0	0
Critical (15%)			00.070									
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	0	0	0	J	5	0	0	5	5	5	5	0





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

Absolute Difference (CFS)

Relative Difference (%)

		October					November	_
Percent Exceedance	No Action Alternative	Alternative D	Absolute	Relative	Percent Exceedance	No Action Alternative	Alternative D	
Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	
(%) 0.0%	(CFS) 0	(CFS) 0	0		(%)	(CFS) 0	(CFS) 10	
1.2%	0	0	0		1.2%	0	0	
2.5%	0	0	0		2.5%	0	0	
3.7%	0	0	0		3.7%	0	0	
4.9%	0	0	0		4.9%	0	0	
6.2% 7.4%	0	0	0		6.2% 7.4%	0	0	
8.6%	0	0	0		8.6%	0	0	
9.9%	0	ő	0		9.9%	0	0	
11.1%	0	0	0		11.1%	0	0	
12.3%	0	0	0		12.3%	0	0	
13.6%	0	0	0		13.6% 14.8%	0	0	
14.8% 16.0%	0	0	0		14.8%	0	0	
17.3%	0	0	0		17.3%	0	0	
18.5%	0	0	0		18.5%	0	0	
19.8%	0	0	0		19.8%	0	0	
21.0%	0	0	0		21.0%	0	0	
22.2%	0	0	0		22.2%	0	0	
23.5% 24.7%	0	0	0		23.5% 24.7%	0	0	
24.7%	0	0	0		25.9%	0	0	
27.2%	0	0	0		27.2%	0	0	
28.4%	0	0	0		28.4%	0	0	
29.6%	0	0	0		29.6%	0	0	
30.9%	0	0	0		30.9%	0	0	
32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	
34.6%	0	0	0		34.6%	0	0	
35.8%	Ő	0	0		35.8%	0	0	
37.0%	0	0	0		37.0%	0	0	
38.3%	0	0	0		38.3%	0	0	
39.5%	0	0	0		39.5%	0	0	
40.7% 42.0%	0	0	0		40.7% 42.0%	0	0	
43.2%	0	0	0		43.2%	0	0	
44.4%	0	0	0		44.4%	0	0	
45.7%	0	0	0		45.7%	0	0	
46.9%	0	0	0		46.9%	0	0	
48.1%	0	0	0		48.1%	0	0	
49.4% 50.6%	0	0	0		49.4% 50.6%	0	0	
51.9%	0	0	0		51.9%	0	0	
53.1%	0	0	0		53.1%	0	0	
54.3%	0	0	0		54.3%	0	0	
55.6%	0	0	0		55.6%	0	0	
56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	
59.3%	0	0	0		59.3%	0	0	
60.5%	0	0	0		60.5%	0	0	
61.7%	ō	ō	ō		61.7%	ō	Ō	
63.0%	0	0	0		63.0%	0	0	
64.2%	0	0	0		64.2%	0	0	
65.4%	0	0	0		65.4%	0	0	
66.7% 67.9%	0	0	0		66.7% 67.9%	0	0	
69.1%	0	0	0		69.1%	0	0	
70.4%	0	0	Ō		70.4%	0	0	
71.6%	0	0	0		71.6%	0	0	
72.8%	0	0	0		72.8%	0	0	
74.1%	0	0	0		74.1%	0	0	
75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	
77.8%	0	0	0		77.8%	0	0	
79.0%	0	0	0		79.0%	0	0	
80.2%	0	0	0		80.2%	0	0	
81.5%	0	0	0		81.5%	0	0	
82.7%	0	0	0		82.7%	0	0	
84.0% 85.2%	0	0	0		84.0% 85.2%	0	0	
86.4%	0	0	0		86.4%	0	0	
87.7%	Ő	Ő	0		87.7%	Ő	0	
88.9%	0	0	0		88.9%	0	0	
90.1%	0	0	0		90.1%	0	0	
91.4%	0	0	0		91.4%	0	0	
	0	0	0		92.6%	0	0	
92.6%		U	0		93.8%	0	0	
93.8%	0	0	0		95 1%		0	
93.8% 95.1%	0	0	0		95.1% 96.3%	0	0	
93.8% 95.1% 96.3% 97.5%	0 0 0	0 0 0	0		96.3% 97.5%	0	0	
93.8% 95.1% 96.3%	0	0	0		96.3%	0	0	

ceedance		December			Darra 1		January		
Percent Exceedance	No Action Alternative	Alternative D	Absolute	Relative	Percent Exceedance	No Action Alternative	Alternative D	Absolute	Relative
Probability	Monthly Diversion	Monthly Diversion	- Difference	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	Difference	Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (///)
0.0%	1010	1334	324	32.1%	0.0%	5535	5511	-25	-0.4%
1.2%	1009	1217	208	20.7%	1.2%	3947	3653	-294	-7.5%
2.5%	969	1102	133	13.7%	2.5%	3653	3462	-190	-5.2%
3.7%	839	920	81	9.7%	3.7%	2312	2111	-201	-8.7%
4.9%	494	514	20	4.1%	4.9%	1658	1422	-236	-14.2%
6.2% 7.4%	351 74	436 230	86 156	24.4% 210.5%	6.2% 7.4%	1025	1256 1127	231 124	22.5% 12.3%
8.6%	53	144	92	175.1%	8.6%	890	899	9	12.3%
9.9%	28	77	49	177.1%	9.9%	594	681	87	14.7%
11.1%	0	36	36		11.1%	571	422	-149	-26.0%
12.3%	õ	10	10		12.3%	446	396	-50	-11.2%
13.6%	0	0	0		13.6%	444	380	-64	-14.4%
14.8%	0	0	0		14.8%	414	379	-36	-8.6%
16.0%	0	0	0		16.0%	309	374	65	21.1%
17.3%	0	0	0		17.3%	213	65	-148	-69.3%
18.5%	0	0	0		18.5%	77	48	-29	-37.4%
19.8%	0	0	0		19.8%	53	45	-8	-14.7%
21.0%	0	0	0		21.0%	47	38	-9 2	-18.7%
22.2% 23.5%	0	0	0		22.2% 23.5%	26 18	29 21	3	8.1% 14.2%
24.7%	0	0	0		24.7%	10	0	-10	14.270
25.9%	0	0	0		25.9%	0	0	0	
27.2%	ő	õ	0		27.2%	0	õ	0	
28.4%	0	0	0		28.4%	0	0	0	
29.6%	0	0	0		29.6%	0	0	0	
30.9%	0	0	0		30.9%	0	0	0	
32.1%	0	0	0		32.1%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0	
34.6%	0	0	0		34.6%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0	
38.3%	0	0	0		38.3%	0	0	0	
39.5% 40.7%	0	0	0		39.5% 40.7%	0	0	0	
40.7%	0	0	0		40.7%	0	0	0	
43.2%	0	0	0		43.2%	0	0	0	
44.4%	0	0	ő		44.4%	0	0	0	
45.7%	Ō	0	0		45.7%	0	Ō	0	
46.9%	0	0	0		46.9%	0	0	0	
48.1%	0	0	0		48.1%	0	0	0	
49.4%	0	0	0		49.4%	0	0	0	
50.6%	0	0	0		50.6%	0	0	0	
51.9%	0	0	0		51.9%	0	0	0	
53.1%	0	0	0		53.1%	0	0	0	
54.3%	0	0	0		54.3%	0	0	0	
55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0	
59.3%	0	õ	Ő		59.3%	õ	õ	0	
60.5%	0	0	0		60.5%	0	0	0	
61.7%	ō	0	0		61.7%	ō	ō	0	
63.0%	0	0	0		63.0%	0	0	0	
64.2%	0	0	0		64.2%	0	0	0	
65.4%	0	0	0		65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	0	
67.9%	0	0	0		67.9%	0	0	0	
69.1% 70.4%	0	0	0		69.1% 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	
74.1%	0	0	0		74.1%	0	0	0	
75.3%	0	0	0		75.3%	0	0	0	
76.5%	0	Ő	0		76.5%	0	0	0	
77.8%	0	0	0		77.8%	0	0	0	
79.0%	0	0	0		79.0%	0	0	0	
80.2%	0	0	0		80.2%	0	0	0	
81.5%	0	0	0		81.5%	0	0	0	
82.7%	0	0	0		82.7%	0	0	0	
84.0%	0	0	0		84.0%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0	
87.7%	0	0	0		87.7%	0	0	0	
88.9% 90.1%	0	0	0		88.9% 90.1%	0	0	0	
90.1%	0	0	0		90.1%	0	0	0	
92.6%	0	0	0		92.6%	0	0	0	
93.8%	ő	0	ő		93.8%	0	õ	0	
95.1%	ő	Ő	0		95.1%	ő	ő	0	
96.3%	0	0	0		96.3%	0	0	0	
97.5%	0	0	0		97.5%	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	

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

-		February			-		March		Probability	of Exceedance		April			-		Мау		
Percent	No Action Alternative		Absolute		Percent		Alternative D	Absolute		Percent		Alternative D	Absolute		Percent			Absolute	
Exceedance		Alternative D	Difference	Relative	Exceedance	No Action Alternative		Difference	Relative	Exceedance	No Action Alternative		 Absolute Difference 	Relative	Exceedance	No Action Alternative	Alternative D	- Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 9355	(CFS) 9340	-15	-0.2%	<u>(%)</u> 0.0%	(CFS) 6639	(CFS) 6642	2	0.0%	<u>(%)</u> 0.0%	(CFS) 1015	(CFS) 1016	(===;	0.1%	<u>(%)</u> 0.0%	(CFS)	(CFS)	(1.1.5)	
0.0%	9355	9340	-15 -431	-0.2%	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%	ő	Ő	ő	
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%	976 806	880	-96 -104	-9.9%	9.9%	443 412	440	-3	-0.7%	9.9%	0	0	0		9.9%	0	0	0	
11.1% 12.3%	682	702 533	-104	-13.0% -21.9%	11.1% 12.3%	124	411 47	-1 -77	-0.2% -62.0%	11.1% 12.3%	0	0	0		11.1% 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%	ő	0	õ		14.8%	ŏ	õ	ő	
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% 23.5%	101 38	84 66	-17 27	-17.2% 70.4%	22.2% 23.5%	0	0	0		22.2% 23.5%	0	0	0		22.2% 23.5%	0	0	0	
23.5%	14	46	32	70.4%	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% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 37.0%	0	0	0	
37.0%	0	0	0		37.0%	0	0	0		37.0%	0	0	0		37.0%	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%	õ	õ	ő		42.0%	ŏ	õ	õ		42.0%	õ	õ	ŏ		42.0%	ŏ	õ	ő	
43.2%	0	0	Ō		43.2%	0	0	0		43.2%	0	0	0		43.2%	0	0	Ő	
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% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 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	ő		54.3%	ŏ	õ	õ		54.3%	ő	0	õ		54.3%	ŏ	õ	ő	
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% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 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	Ő	Ő		67.9%	Ő	0	0		67.9%	Ő	Ő	Ő		67.9%	Ő	Ō	Ő	
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% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0		74.1% 75.3%	0	0	0	_
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0		75.3%	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%	Ő	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%	ō	ō	0		81.5%	ō	Ō	0		81.5%	Ō	ō	ō		81.5%	ō	0	Ő	
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% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0		87.7% 88.9%	0	0	0	
	0	0	0			0	0	0			0	0	0			0	0	0	
90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0		90.1% 91.4%	0	0	0	
91.4%	0	0	0		91.4%	0	0	0		91.4%	0	0	0		91.4%	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	Ő		96.3%	0	0	0		96.3%	0	0	0		96.3%	0	0	õ	
07.504	0	0	0		97.5%	0	Ō	0		97.5%	0	0	Ō		97.5%	0	0	0	
97.5%																			
97.5% 98.8% 100.0%	0	0 0.0	0		98.8% 100.0%	0.0	0.0	0.0		98.8% 100.0%	0	0.0	0.0		98.8% 100.0%	0.0	0	0.0	

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

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

-		July		Probability of	Exocounite		August					September		
Percent					Percent					Percent				
Exceedance Probability	No Action Alternative Monthly Diversion	Alternative D Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedance Probability	No Action Alternative Monthly Diversion	Alternative D Monthly Diversion	Absolute Difference	Relative Difference (%)	Exceedance Probability	No Action Alternative Monthly Diversion	Alternative D Monthly Diversion	Absolute Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (m)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (14)
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	
2.5% 3.7%	0	0	0		2.5% 3.7%	0	0	0		2.5% 3.7%	0	0	0	
4.9%	0	0	ő		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	
7.4%	0	0	0		7.4%	0	0	0		7.4%	0	0	0	
8.6% 9.9%	0	0	0		8.6% 9.9%	0	0	0		8.6% 9.9%	0	0	0	
9.9%	0	0	0		9.9%	0	0	0		9.9%	0	0	0	
12.3%	0	0	õ		12.3%	0	0	õ		12.3%	0	õ	ő	
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	
16.0% 17.3%	0	0	0		16.0% 17.3%	0	0	0		16.0% 17.3%	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	
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	
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	
25.9% 27.2%	0	0	0		25.9% 27.2%	0	0	0		25.9% 27.2%	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	
30.9%	0	0	0		30.9%	0	0	0		30.9%	0	0	0	
32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0		32.1% 33.3%	0	0	0	
33.3%	0	0	0		33.3%	0	0	0		33.3%	0	0	0	
35.8%	0	0	0		35.8%	0	0	0		35.8%	0	Ő	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	
39.5%	0	0	0		39.5%	0	0	0		39.5%	0	0	0	
40.7% 42.0%	0	0	0		40.7% 42.0%	0	0	0		40.7% 42.0%	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	
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	
48.1% 49.4%	0	0	0		48.1% 49.4%	0	0	0		48.1% 49.4%	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	õ	
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	
55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0		55.6% 56.8%	0	0	0	
58.0%	0	0	0		58.0%	0	0	0		58.0%	0	0	0	
59.3%	ō	ō	ō		59.3%	ō	ō	Ō		59.3%	ō	ō	Õ	
60.5%	0	0	0		60.5%	0	0	0		60.5%	0	0	0	
61.7% 63.0%	0	0	0		61.7% 63.0%	0	0	0		61.7% 63.0%	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	
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	
69.1% 70.4%	0	0	0		69.1%	0	0	0		69.1%	0	0	0	
70.4% 71.6%	0	0	0		70.4% 71.6%	0	0	0		70.4% 71.6%	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	
75.3%	0	0	0		75.3%	0	0	0		75.3%	0	0	0	
76.5% 77.8%	0	0	0		76.5% 77.8%	0	0	0		76.5% 77.8%	0	0	0	
77.8%	0	0	0		79.0%	0	0	0		77.8%	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	
82.7%	0	0	0		82.7%	0	0	0		82.7%	0	0	0	
84.0% 85.2%	0	0	0		84.0% 85.2%	0	0	0		84.0% 85.2%	0	0	0	
85.2%	0	0	0		85.2%	0	0	0		85.2%	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	
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	
92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0		92.6% 93.8%	0	0	0	
93.8%	0	0	0		93.8%	0	0	0		93.8%	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	Ō	
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	

		Lona-	term Ave	rage and A	verage by	Water Ye	ar Type					
						onthly Div		S)				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
					ng-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 Y	ear 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%							

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

									Probability o	f Exceedance									
Percent		October			Percent		November			Percent		December			Percent		January		
Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative	Exceedance	No Action Alternative	Alternative D	Absolute Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)	Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%)
<u>(%)</u> 0.0%	(CFS) 559	(CFS) 660	101	18.1%	<u>(%)</u> 0.0%	(CFS) 7065	(CFS) 6450	-615	-8.7%	<u>(%)</u> 0.0%	(CFS) 19690	(CFS) 20932	1242	6.3%	<u>(%)</u> 0.0%	(CFS) 34396	(CFS) 33671	-726	-2.1%
1.2%	0	0	0	10.176	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% 6.2%	0	0	0		4.9% 6.2%	318 0	346 27	28 27	8.7%	4.9%	8690 8205	8524 8331	-167 126	-1.9% 1.5%	4.9% 6.2%	21295 20927	21884 21131	589 204	2.8%
7.4%	0	0	0		7.4%	0	0	0		6.2% 7.4%	7529	6888	-641	-8.5%	7.4%	19015	18405	-610	-3.2%
8.6%	ő	ő	0		8.6%	ő	Ő	Ő		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% 12.3%	11956 10544	10247 10217	-1710	-14.3%
12.3% 13.6%	0	0	0		12.3% 13.6%	0	0	0		12.3% 13.6%	3364 3262	3582 3166	219 -95	6.5% -2.9%	12.3%	10544	9456	-328 -569	-3.1% -5.7%
14.8%	0	0	0		14.8%	0	0	ő		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% 19.8%	0	0	0		18.5%	0	0	0		18.5% 19.8%	1632	2585 1246	953	58.4%	18.5% 19.8%	7295	6270 5663	-1025	-14.1% -17.1%
21.0%	0	0	0		19.8% 21.0%	0	0	0		21.0%	1364 840	1246	-119 377	-8.7% 44.9%	21.0%	5815	5156	-1172 -659	-11.3%
22.2%	0	0	0		22.2%	ů 0	õ	Ő		22.2%	727	521	-206	-28.3%	22.2%	4988	5106	118	2.4%
23.5%	0	0	Ő		23.5%	0	Ō	Ō		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% 28.4%	0	0	0		27.2% 28.4%	0	0	0		27.2% 28.4%	270 167	245 242	-25 75	-9.2% 45.0%	27.2% 28.4%	2797 2342	2045 1945	-752 -396	-26.9% -16.9%
28.4%	0	0	0		28.4%	0	0	0		28.4%	136	242	29	45.0%	28.4%	2342	1945	-396	-25.3%
30.9%	ő	ő	0		30.9%	ő	Ő	Ő		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% 35.8%	0	0	0		34.6% 35.8%	0	0	0		34.6% 35.8%	0	7	0		34.6% 35.8%	821 691	622 601	-199 -90	-24.2% -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% 43.2%	0	0	0		42.0% 43.2%	0	0	0		42.0% 43.2%	0	0	0		42.0% 43.2%	97 75	28	-69 -75	
43.2 %	0	0	0		44.4%	0	0	0		44.4%	0	0	0		44.4%	10	0	-10	
45.7%	Ő	Ő	0		45.7%	Ő	Ő	Ő		45.7%	Ő	Ő	Ő		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% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 51.9%	0	0	0		50.6% 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% 58.0%	0	0	0		56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	0		56.8% 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% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0	
66.7%	0	0	0		66.7%	0	0	ő		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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 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	Õ		75.3%	0	0	Ō		75.3%	0	0	Ō		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% 79.0%	0	0	0	
79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0		79.0% 80.2%	0	0	0		80.2%	0	0	0	
81.5%	ő	0	0		81.5%	ŏ	0	Ő		81.5%	0	õ	0		81.5%	õ	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% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0		85.2% 86.4%	0	0	0	
86.4%	0	0	0		86.4%	0	0	0		86.4%	0	0	0		85.4%	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	Õ		90.1%	0	0	Ō		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% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 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%	Ő	Ő	0		97.5%	Ő	Ő	0		97.5%	0	Ő	0		97.5%	Ő	Ő	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

Exceedance No Action Alternative Descuite Relative Descuite Relative Control Alternative Alternative			February			-		March					April			-		May		
Name Description	Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute	
				Difference					Difference		Exceedance Probability			Difference					Difference	
				(CFS)	Difference (76)				(CFS)	Difference (70)				(CFS)	Difference (70)				(CFS)	Difference (74)
	0.0%	53046	53040		0.0%	0.0%	46969	46973		0.0%	0.0%	17385	17422		0.2%	0.0%	2239	2022	-217	-9.7%
																			1	0.0%
Cho D00 D00 D30 D00 D00 <thd00< th=""> <thd00< th=""> <thd00< th=""></thd00<></thd00<></thd00<>	2.5%	33038	33483	445	1.3%	2.5%	31132	30181	-951	-3.1%	2.5%		13681			2.5%				-44.7%
Image Mode <											6.2%						0			
BAC DOD DOD <thdod< th=""> <thdod< th=""> <thdod< th=""></thdod<></thdod<></thdod<>		18664	18720								7.4%	5026		2			0	0	0	
	8.6%	17950	16544					10987	-1750	-13.7%	8.6%	2869	2987	118	4.1%	8.6%	0			
10.0 10.0 40.0 40.0 40.0 40.0 40.0 10.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-932</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td></th<>									-932								0			
						11.1%			-1030	-9.5%	11.1%	1857		-118	-0.3%	11.1%	0			
100 100 67 100					-14.9%												0		-	
	14.8%	12659	13066	407	3.2%	14.8%		5544			14.8%	1259	1224	-35	-2.8%	14.8%	ō	ō	ō	
I No. No. No. No. No.				-642								1251					0			
IDD VID VID <td></td> <td>0</td> <td>0</td> <td>-</td> <td></td>																	0	0	-	
100 M07 920 400 400 40 40 40 40 400 60 6 2500 M00	18.5%	9984		-289	-2.9%	18.5%			6	0.1%	18.5%	659	657	-2	-0.3%	18.5%	0			
PD PD<															-21.376		0			
J.D. D.D.	22.2%	7924	6772	-1152	-14.5%	22.2%	3346	3273	-72	-2.2%	22.2%	10	0	-10		22.2%	0			
BAP Mode Day Day <thday< td="" th<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td></thday<>																	0			
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No. No. <td>28.4%</td> <td></td> <td></td> <td>-350</td> <td></td> <td>21.2%</td> <td></td> <td></td> <td>-300</td> <td>-40.7%</td> <td>28.4%</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>21.2%</td> <td>0</td> <td></td> <td></td> <td></td>	28.4%			-350		21.2%			-300	-40.7%	28.4%	0	0			21.2%	0			
No. No. <td></td> <td>0</td> <td>õ</td> <td></td> <td></td> <td></td> <td>õ</td> <td></td> <td></td> <td></td>												0	õ				õ			
31.6 40.3 207 1.96 33.6 97 40.3 31.6 0 0 31.6 0 0 0 0 <td>30.9%</td> <td>5208</td> <td>3374</td> <td>-1834</td> <td></td> <td>30.9%</td> <td>1139</td> <td></td> <td>-376</td> <td>-33.0%</td> <td>30.9%</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>0</td> <td>0</td> <td></td> <td></td>	30.9%	5208	3374	-1834		30.9%	1139		-376	-33.0%	30.9%	0	0	0			0	0		
MAD TOB TOB TOB TOB MAD O MAD						32.1%					32.1%		0	0			0			
BAD Diffe D	33.3%			-787	-21.5%	33.3%				-35.2%	33.3%		0	0		33.3%	0			
J. Cr. S20 S20<														-			0			
35.0 201 1917 444 165.0 36.0 0 35.0 0 0 35.0 0 0 0 0														ő			0			
No. Start No. No. </td <td></td> <td>2391</td> <td></td> <td></td> <td>-18.6%</td> <td></td> <td>477</td> <td>216</td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>38.3%</td> <td>0</td> <td>0</td> <td>0</td> <td></td>		2391			-18.6%		477	216				0	0	0		38.3%	0	0	0	
100 100 178 0.44 1.15 4.20 0.0 0																				
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Table SW-51-9b Colusa Weir Spills into Sutter Bypass, Monthly Diversion Probability of Exceedance

		June		
Percent	No Action Alternative	Alternative D	Absolute	
Exceedance			Difference	Relative
Probability	Monthly Diversion	Monthly Diversion	(CFS)	Difference (%
(%) 0.0%	(CFS)	(CFS)	-122	7.00/
	1574	1451		-7.8%
1.2%	0	0	0	
2.5%	0	0	0	
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	0	0	0	
7.4%	0	0	0	
8.6%	0	0	0	
9.9%	0	0	0	
11.1%	0	0	0	
12.3%	0	0	0	
13.6%	0	0	0	
14.8%	ō	ō	ō	
16.0%	0	0	0	
17.3%	ō	ō	ō	
18.5%	0	0	0	
19.8%	ŏ	õ	0	
21.0%	0	0	0	
	0	0		
22.2%			0	
23.5%	0	0	0	
24.7%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	0	0	0	
32.1%	0	0	0	
33.3%	0	0	0	
34.6%	0	0	0	
35.8%	0	0	0	
37.0%	0	0	0	
38.3%	0	0	0	
39.5%	ō	0	0	
40.7%	0	0	0	
42.0%	ŏ	ŏ	0	
43.2%	0	0	0	
44.4%	0	0	0	
44.4%	0	0	0	
46.9%	0	0	0	
48.1%	0	0	0	
49.4%	0	0	0	
50.6%	0	0	0	
51.9%	0	0	0	
53.1%	0	0	0	
54.3%	0	0	0	
55.6%	0	0	0	
56.8%	0	0	0	
58.0%	0	0	0	
59.3%	0	0	0	
60.5%	0	0	0	
61.7%	õ	õ	0	
63.0%	0	0	0	
64.2%	õ	õ	0	
65.4%	0	0	0	
66.7%	0	0	0	
67.9%	0	0	0	
69.1%	0	0	0	
69.1% 70.4%	0	0	0	
71.6%	0	0	0	
72.8%	0	0	0	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	0	0	
80.2%	0	0	0	
81.5%	0	0	0	
82.7%	0	0	0	
84.0%	ō	0	0	
85.2%	ő	ő	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
90.1%		0	0	
91.4%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
98.8%	0	0	0	
100.0%	0.0	0.0	0.0	

June

Percent Exceedance Probability

Probabilit (%) 0.0% 1.2% 2.5% 3.7% 4.9% 6.2% 7.4%

7.4% 8.6% 9.9% 11.1% 12.3% 13.6% 14.8% 13.6% 22.9% 23.5% 24.7% 22.9% 23.5% 24.7% 23.5% 24.7% 23.5% 24.7% 23.5% 24.7% 23.5% 24.7% 23.5% 24.7% 23.5% 24.7% 25.9% 33.3% 34.6% 35.5% 44.0% 44.3% 44.3% 45.7% 55.3%55.3% 55.3% 55.3% 55.3% 55.3% 55.3% 55.3% 55.3% 55.3% 55.3%55.

100.0%

0.0

No Action Alternative Monthly Diversion

July		Probabili	ty of Exceedance		August						September		
Alternative	e D Absolu	te	Percent	No Action Alternative	Alternative D	Absolute			cent	No Action Alternative	Alternative D	Absolute	
Monthly Dive	Differen	ICE Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Excee Proba	dance ability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(CFS)	(CFS)) Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)		%)	(CFS)	(CFS)	(CFS)	Difference (74)
0	0		0.0%	0	0	0		0.0	0%	0	0	0	
0	0		1.2%	0	0	0			2%	0	0	0	
0	0		2.5% 3.7%	0	0	0		2.5	5% 7%	0	0	0	
0	0		4.9%	0	0	0			9%	0	0	0	
0	Ő		6.2%	0	ő	Ő		6.2	2%	0	0	0	
0	0		7.4%	0	0	0			4%	0	0	0	
0	0		8.6%	0	0	0		8.6	6%	0	0	0	
0	0		9.9%	0	0	0			9%	0	0	0	
0	0		11.1%	0	0	0		11.	.1%	0	0	0	
0	0		12.3% 13.6%	0	0	0			.3% .6%	0	0	0	
0	0		14.8%	0	0	0			.6% .8%	0	0	0	
0	0		16.0%	0	0	0		16	.0%	0	0	0	
õ	ő		17.3%	ő	ŏ	ő			.3%	õ	õ	ő	
0	0		18.5%	0	0	0		18.	.5%	0	0	0	
0	0		19.8%	0	0	0			.8%	0	0	0	
0	0		21.0%	0	0	0		21.	.0%	0	0	0	
0	0		22.2%	0	0	0		22.	.2%	0	0	0	
	0		23.5%		0	0			.5%	0	0	0	
0	0		24.7% 25.9%	0	0	0		24.	.7% .9%	0	0	0	
0	0		27.2%	0	0	0			.9%	0	0	0	
0	0		28.4%	0	0	0		28.	.4%	0	0	0	
0	0		29.6%	0	0	0		29.	.6%	0	0	0	
0	0		30.9%	0	0	0		30.	.9%	0	0	0	
0	0		32.1%	0	0	0			.1%	0	0	0	
0	0		33.3%	0	0	0		33.	.3%	0	0	0	
0	0		34.6% 35.8%	0	0	0		34.	.6% .8%	0	0	0	
0	0		35.8%	0	0	0			.8%	0	0	0	
0	0		38.3%	0	0	0		38	.3%	0	0	0	
õ	ő		39.5%	ő	ŏ	ő			.5%	õ	õ	ő	
0	0		40.7%	0	0	0		40.	.7%	0	0	0	
0	0		42.0%	0	0	0		42.	.0%	0	0	0	
0	0		43.2%	0	0	0		43.	.2%	0	0	0	
0	0		44.4%	0	0	0		44.	.4%	0	0	0	
0	0		45.7% 46.9%	0	0	0			.7% .9%	0	0	0	
0	0		48.1%	0	0	0		40.	.9% .1%	0	0	0	
0	0		49.4%	0	0	0			.4%	0	0	0	
0	0		50.6%	0	0	0		50.	.6%	0	0	0	
0	0		51.9%	0	0	0		51.	.9%	0	0	0	
0	0		53.1%	0	0	0		53.	.1%	0	0	0	
0	0		54.3%	0	0	0			.3%	0	0	0	
0	0		55.6%	0	0	0		55.	.6%	0	0	0	
0	0		56.8% 58.0%	0	0	0			.8% .0%	0	0	0	
0	0		59.3%	0	0	0			.3%	0	0	0	
0	0		60.5%	0	0	0			.5%	0	0	0	
Õ	Ō		61.7%	Ō	ō	ō			.7%	0	0	0	
0	0		63.0%	0	0	0			.0%	0	0	0	
0	0		64.2%	0	0	0			.2%	0	0	0	
0	0		65.4%	0	0	0			.4%	0	0	0	
0	0		66.7%	0	0	0			.7%	0	0	0	
0	0		67.9% 69.1%	0	0	0			.9% .1%	0	0	0	
0	0		70.4%	0	0	0		59.	.1% .4%	0	0	0	
0	0		71.6%	0	0	0			. 4 % .6%	0	0	0	
0	0		72.8%	0	0	0		72.	.8%	0	0	0	
0	0		74.1%	0	0	0		74.	.1%	0	0	0	
0	0		75.3%	0	0	0		75.	.3%	0	0	0	
0	0		76.5%	0	0	0			.5%	0	0	0	
0	0		77.8%	0	0	0		77.	.8%	0	0	0	
0	0		79.0% 80.2%	0	0	0			.0% .2%	0	0	0	
0	0		80.2%	0	0	0			.2% .5%	0	0	0	
0	0		82.7%	0	0	0		82	.7%	0	0	0	
0	0		84.0%	0	0	0		84.	.0%	0	0	0	
0	0		85.2%	0	0	0		85.	.2%	0	0	Ō	
0	0		86.4%	0	0	0		86.	.4%	0	0	0	
0	0		87.7%	0	0	0			.7%	0	0	0	
0	0		88.9%	0	0	0			.9%	0	0	0	
0	0		90.1%	0	0	0		90.	.1%	0	0	0	
0	0		91.4% 92.6%	0	0	0		91.	.4% .6%	0	0	0	
0	0		93.8%	0	0	0			.8%	0	0	0	
0	0		95.1%	0	0	0		95.	.0%	0	0	0	
0	0		96.3%	0	0	0		96.	.3%	0	0	0	
0	0		97.5%	0	0	0		97.	.5%	0	0	0	
0	0		98.8%	0	0	0			.8%	0	0	0	
	0.0		100.0%	0.0	0.0	0.0		100).0%	0.0	0.0	0.0	

						s, Monthly						
		Long	term Avei	rage and A		y Water Ye						
	•		-			onthly Div	,	'				
Analysis Period	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period ¹				LOI	ng-term							
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		-13	-25	-109	-162	-177	-29		U	U	0	U
r elocito billerence		-0.0%	-2.5%		-0.0% ear Types		-3.2%	-11.1%				
Wet (32%)				Water 1	cui Types							
No Action Alternative	0	98	1109	5277	7193	4834	2396	169	143	0	0	0
Alternative D	0	91	1103	5196	6954	4591	2348	145	142	0	0	0
Difference	0	-7	-1	-82	-239	-243	-48	-25	-1	0	0	0
Percent Difference	U	-/	-0.1%	-82 -1.5%	-239	-243 -5.0%	-46	-25	-1	U	0	U
Above Normal (15%)			-0.1%	-1.376	*3.370	-3.0%	-2.0%					
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	3	-14.7%	-11.0%	-12.2%	-5.8%	-10.1%	-6.7%	-5.8%	0	U	0	0
Below Normal (17%)		-14.770	-11.070	-12.270	-5.070	-10.170	-0.170	-3.076				
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%	0	0	0	0	0
Dry (22%)	10.370	-1.070	1.576	-0.770	-13.270	-01.070	-20.070					
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	0	3.3%	-3.7%	-36.0%	-22.0%	-48.5%	5	2	5	5	5	0
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%						

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					Probability of Exceedance November							December				January					
Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute			
Exceedance			- Difference	Relative	Exceedance			Difference	Relative	Exceedance			- Difference	Relative	Exceedance			- Difference	Relative		
Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)	Probability (%)	Monthly Diversion (CFS)	Monthly Diversion (CFS)	(CFS)	Difference (%)		
0.0%	685	757	72	10.5%	0.0%	6110	5180	-930	-15.2%	<u>(%)</u> 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% 4.9%	0	0	0		3.7%	1333 334	1332 333	-1	-0.1%	3.7%	5913 4807	5741	-172	-2.9%	3.7% 4.9%	11244 10953	11362 11271	118	1.0%		
6.2%	0	0	0		4.9% 6.2%	314	268	-47	-0.2% -14.8%	4.9% 6.2%	4589	5118 4197	311 -392	6.5% -8.5%	6.2%	10953	10283	318 -173	2.9% -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% 12.3%	0	0	0		11.1% 12.3%	15 6	0	-15 -6	-100.0%	11.1% 12.3%	3452 3136	3337 3304	-115 168	-3.3% 5.4%	11.1% 12.3%	6571 6512	7018 5677	447 -835	6.8% -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	ő	Ő		14.8%	Ö	õ	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% 21.0%	0	0	0		19.8% 21.0%	0	0	0		19.8% 21.0%	1805 1607	1923 1899	118 292	6.5% 18.2%	19.8% 21.0%	4232 3952	3983 3524	-249 -428	-5.9% -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	Õ		23.5%	0	0	Ō		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% 29.6%	0	0	0		28.4% 29.6%	0	0	0		28.4% 29.6%	501 411	573 572	71 162	14.3% 39.4%	28.4% 29.6%	2209 2125	1963 1879	-246 -246	-11.1% -11.6%		
30.9%	0	0	0		30.9%	0	0	0		30.9%	404	451	46	11.5%	30.9%	2125	1706	-246	-19.1%		
32.1%	ō	ō	õ		32.1%	Ō	õ	ō		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% 37.0%	0	0	0		35.8% 37.0%	0	0	0		35.8% 37.0%	251 210	319 317	68 106	26.9% 50.4%	35.8% 37.0%	1066 977	879 839	-187 -138	-17.5%		
38.3%	0	0	0		38.3%	0	0	0		38.3%	88	192	106	118.7%	38.3%	836	782	-136	-14.2%		
39.5%	0	0	ő		39.5%	0	0	ő		39.5%	50	41	-9	110.776	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% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 45.7%	0	0	0		44.4% 45.7%	174 103	144 143	-29 40	-16.9%		
46.9%	0	0	0		46.9%	0	0	0		46.9%	0	0	0		46.9%	98	91	-7			
48.1%	0	Ő	Ő		48.1%	Ő	Ő	0		48.1%	Ő	ő	Ő		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% 53.1%	0	0	0		51.9%	0	0	0		51.9%	0	0	0		51.9% 53.1%	35 12	0	-35			
54.3%	0	0	0		53.1% 54.3%	0	0	0		53.1% 54.3%	0	0	0		54.3%	2	0	-12 -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% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 61.7%	0	0	0		60.5% 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%	ō	ō	õ		64.2%	Ō	ō	ō		64.2%	ō	ō	ō		64.2%	ō	ō	Õ			
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% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9% 69.1%	0	0	0		67.9% 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	ő	Ő		71.6%	ő	õ	0		71.6%	0	õ	0		71.6%	0	õ	Ő			
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% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0		75.3% 76.5%	0	0	0			
76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0		76.5%	0	0	0	_		
79.0%	0	0	0		79.0%	0	0	ő		79.0%	0	ő	0		79.0%	0	ő	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%	Ö	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% 85.2%	0	0	0		84.0% 85.2%	0	0	0		84.0% 85.2%	0	0	0		84.0% 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	ō	0		88.9%	0	0	ō		88.9%	0	ō	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% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 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	No Action Alternative	Alternative D	Absolute	Delativa	Percent	No Action Alternative	Alternative D	Absolute	Deletius	Percent	No Action Alternative	Alternative D	Absolute	Deletive	Percent	No Action Alternative	Alternative D	Absolute	Deletive
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(%)	(CFS)	(CFS)	(CFS)	Difference (74)	(%)	(CFS)	(CFS)	(CFS)	Difference (77)	(%)	(CFS)	(CFS)	(CFS)	Difference (70)	(%)	(CFS)	(CFS)	(CFS)	Difference (74)
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% 3.7%	15350 13328	15599 13486	248 158	1.6% 1.2%	2.5% 3.7%	13585 11791	12772 11163	-814 -628	-6.0% -5.3%	2.5% 3.7%	8066 7657	8089 7660	24	0.3%	2.5% 3.7%	1550 873	1530 674	-19 -198	-1.3% -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	-196	=22.170
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% 11.1%	10203 9890	9626 9131	-577 -759	-5.7% -7.7%	9.9% 11.1%	7184 6322	6304 6129	-880 -193	-12.2% -3.1%	9.9% 11.1%	3009 2471	3014 2354	-117	0.2% -4.7%	9.9% 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	ő	
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% 18.5%	6880 6738	6016 5963	-864 -775	-12.6% -11.5%	17.3% 18.5%	3954 3390	3959 3346	5 -43	0.1%	17.3% 18.5%	1579 1525	1529 1499	-50 -26	-3.2% -1.7%	17.3% 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	Ő	Ő	
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% 27.2%	4823 4221	4719 4535	-104 313	-2.1% 7.4%	25.9% 27.2%	2562 2543	2328 2217	-234 -326	-9.1% -12.8%	25.9% 27.2%	274	173 4	-101 -2	-36.9%	25.9% 27.2%	0	0	0	
28.4%	4202	4305	103	2.4%	28.4%	2531	1851	-680	-26.9%	28.4%	0	4	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% 34.6%	3409 3214	2774 2675	-635 -539	-18.6% -16.8%	33.3% 34.6%	1567 1365	1086 1076	-481 -289	-30.7% -21.2%	33.3% 34.6%	0	0	0		33.3% 34.6%	0	0	0	
34.6%	3121	2517	-605	-19.4%	35.8%	1305	1047	-289	-19.7%	34.6%	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	ő		37.0%	0	0	ő	
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% 43.2%	2452 2444	2177 1897	-275 -547	-11.2% -22.4%	42.0% 43.2%	598 508	406 373	-192 -135	-32.1% -26.6%	42.0% 43.2%	0	0	0		42.0% 43.2%	0	0	0	
44.4%	1429	1376	-52	-3.7%	43.2 %	504	267	-237	-47.1%	43.2 %	0	0	0		44.4%	0	0	0	
45.7%	1202	1040	-162	-13.5%	45.7%	416	141	-276	-66.2%	45.7%	ő	0	0		45.7%	0	Ő	Ő	
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%	302 217	82	-220 -140	-72.9%	49.4%	0	0	0		49.4%	0	0	0	
50.6% 51.9%	866 776	831 731	-36 -45	-4.1% -5.8%	50.6% 51.9%	171	77 38	-140	-64.4% -77.6%	50.6% 51.9%	0	0	0		50.6% 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% 58.0%	149 137	109 90	-39 -46		56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	0		56.8% 58.0%	0	0	0	
59.3%	137	90 64	-46		59.3%	0	0	0		59.3%	0	0	0		59.3%	0	0	0	
60.5%	53	35	-19		60.5%	Ő	0	0		60.5%	0	0	0		60.5%	0	Ő	Ő	
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% 65.4%	1	0	-1		64.2% 65.4%	0	0	0		64.2% 65.4%	0	0	0		64.2% 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	Ő	0		67.9%	Ő	Ő	0		67.9%	ő	0	0		67.9%	0	Ő	Ő	
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% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 72.8%	0	0	0		71.6% 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% 80.2%	0	0	0		79.0%	0	0	0		79.0% 80.2%	0	0	0		79.0% 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% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 87.7%	0	0	0		86.4% 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%	ŏ	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% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0		93.8% 95.1%	0	0	0	
95.1%	0	0	0		95.1% 96.3%	0	0	0		95.1%	0	0	0		95.1%	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	ō		98.8%	Ō	0	ō		98.8%	Ō	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

Percent	No Action Alternative	June Alternative D	Absolute	
Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference (CFS)	Relative Difference (%
(%)	(CFS)	(CFS)		1.00/
0.0%	3625	3568	-56	-1.6%
1.2% 2.5%	97 0	118 0	22	22.3%
3.7%	0	0	0	
4.9%	0	0	0	
6.2%	0	0	0	
7.4%	0	0	0	
8.6%	0	0	0	
9.9%	õ	õ	õ	
11.1%	0	0	0	
12.3%	0	0	0	
13.6%	0	0	0	
14.8%	0	0	0	
16.0%	0	0	0	
17.3%	0	0	0	
18.5%	0	0	0	
19.8%	0	0	0	
21.0%	0	0	0	
22.2%	0	0	0	
23.5%	0	0	0	
24.7%	0	0	0	
25.9%	0	0	0	
27.2%	0	0	0	
28.4%	0	0	0	
29.6%	0	0	0	
30.9%	0	0	0	
32.1%	0	0	0	
33.3%	0	0	0	
34.6%	0	0	0	
35.8%	0	0	0	
37.0%	0	0	0	
38.3%	0	0	0	
39.5%	0	0	0	
40.7%	0	0	0	
42.0%	0	0	0	
43.2%	0	0	0	
44.4%	0	0	0	
45.7% 46.9%	0	0	0	
	0	0	0	
48.1%				
49.4% 50.6%	0	0	0	
51.9%	0	0	0	
53.1%	0	0	0	
54.3%	ő	ő	ő	
55.6%	0	0	0	
56.8%	ŏ	ŏ	0	
58.0%	0	0	0	
59.3%	ŏ	ŏ	0	
60.5%	0	0	0	
61.7%	ŏ	ŏ	Ő	
63.0%	0	0	0	
64.2%	ŏ	ŏ	Ő	
65.4%	0	Ō	Ő	
66.7%	0	0	0	
67.9%	0	0	0	
69.1%	0	0	0	
70.4%	0	0	0	
71.6%	0	0	0	
72.8%	0	0	0	
74.1%	0	0	0	
75.3%	0	0	0	
76.5%	0	0	0	
77.8%	0	0	0	
79.0%	0	0	0	
80.2%	0	0	0	
81.5%	0	0	0	
82.7%	0	0	0	
84.0%	0	0	0	
85.2%	0	0	0	
86.4%	0	0	0	
87.7%	0	0	0	
88.9%	0	0	0	
90.1%	0	0	0	
91.4%	0	0	0	
92.6%	0	0	0	
93.8%	0	0	0	
95.1%	0	0	0	
96.3%	0	0	0	
97.5%	0	0	0	
98.8%	0	0	0	
100.0%	0.0	0.0	0.0	

Percent

(%) 0.0% 1.2%

2.5% 3.7%

4.9% 6.2%

7.4% 8.6% 9.9% 11.1% 12.3%

13.6% 14.8%

14.8% 16.0% 17.3% 18.5% 19.8% 21.0%

21.0% 22.2% 23.5% 24.7% 25.9% 27.2% 28.4%

29.6% 30.9% 32.1%

32.1% 33.3% 34.6% 35.8% 37.0% 38.3% 39.5% 40.7% 42.0% 43.2% 44.4%

44.4% 45.7%

46.9% 48.1% 49.4% 50.6%

51.9% 53.1% 54.3%

54.3% 55.6% 56.8% 58.0% 59.3%

59.3% 60.5% 61.7% 63.0% 64.2% 65.4% 66.7% 66.7% 67.9%

69.1% 69.1% 70.4% 71.6% 72.8%

72.8% 74.1% 75.3% 76.5% 77.8% 79.0% 80.2% 81.5% 82.7% 84.0% 85.2% 86.4%

86.4% 87.7%

88.9% 90.1%

91.4% 92.6% 93.8% 95.1%

96.3% 97.5% 98.8%

100.0%

Exceedance Probability No Action Alternative

Monthly Diversion

(CFS)

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July		TTODADI	ty of Exceedance		August						September		
Alternative D	Absolute		Percent	No Action Alternative	Alternative D	Absolute			Percent	No Action Alternative	Alternative D	Absolute	
Monthly Diversion	Difference	Relative Difference (%)	Exceedance Probability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)		ceedance robability	Monthly Diversion	Monthly Diversion	Difference	Relative Difference (%)
(CFS)	(CFS)	Difference (%)	(%)	(CFS)	(CFS)	(CFS)	Difference (%)	F	(%)	(CFS)	(CFS)	(CFS)	Difference (76)
0	0		0.0%	0	0	0			0.0%	0	0	0	
0	0		1.2%	0	0	0			1.2%	0	0	0	
0	0		2.5%	0	0	0			2.5%	0	0	0	
0	0		3.7%	0	0	0			3.7%	0	0	0	
0	0		4.9%	0	0	0		_	4.9%	0	0	0	
0	0		6.2% 7.4%	0	0	0			6.2% 7.4%	0	0	0	
0	0		8.6%	0	0	0			8.6%	0	0	0	
0	0		9.9%	0	0	0			9.9%	0	0	0	
0	0		11.1%	0	0	0			11.1%	0	0	0	
0	0		12.3%	0	0	0			12.3%	0	0	0	
0	0		13.6%	0	0	0			13.6%	0	0	0	
0	0		14.8%	0	0	0			14.8%	0	0	0	
0	0		16.0%	0	0	0			16.0%	0	0	0	
0	0		17.3%	0	0	0			17.3%	0	0	0	
0	0		18.5% 19.8%	0	0	0			18.5% 19.8%	0	0	0	
0	0		21.0%	0	0	0			21.0%	0	0	0	
0	0		22.2%	0	0	0			22.2%	0	0	0	
0	0		23.5%	0	0	0			23.5%	0	0	0	
0	0		24.7%	0	0	0			24.7%	0	0	0	
0	0		25.9%	0	0	0			25.9%	0	0	0	
0	0		27.2%	0	0	0			27.2%	0	0	0	
0	0		28.4%	0	0	0			28.4%	0	0	0	
0	0		29.6% 30.9%	0	0	0			29.6% 30.9%	0	0	0	
0	0		30.9%	0	0	0			30.9%	0	0	0	
0	0		33.3%	0	0	0			33.3%	0	0	0	
õ	0		34.6%	0	ō	ō			34.6%	ō	Ō	0	
0	0		35.8%	0	0	0			35.8%	0	0	0	
0	0		37.0%	0	0	0			37.0%	0	0	0	
0	0		38.3%	0	0	0			38.3%	0	0	0	
0	0		39.5%	0	0	0			39.5%	0	0	0	
0	0		40.7% 42.0%	0	0	0			40.7% 42.0%	0	0	0	
0	0		43.2%	0	0	0			43.2%	0	0	0	
0	0		44.4%	0	0	0			44.4%	0	0	0	
ő	0		45.7%	Ő	Ő	ő			45.7%	0	0	Ő	
0	0		46.9%	0	0	0			46.9%	0	0	0	
0	0		48.1%	0	0	0			48.1%	0	0	0	
0	0		49.4%	0	0	0			49.4%	0	0	0	
0	0		50.6%	0	0	0			50.6%	0	0	0	
0	0		51.9%	0	0	0			51.9%	0	0	0	
0	0		53.1% 54.3%	0	0	0			53.1% 54.3%	0	0	0	
0	0		55.6%	0	0	0			55.6%	0	0	0	
0	0		56.8%	0	0	0			56.8%	0	0	0	
0	0		58.0%	0	0	0			58.0%	0	0	0	
0	0		59.3%	0	0	0			59.3%	0	0	0	
0	0		60.5%	0	0	0			60.5%	0	0	0	
0	0		61.7%	0	0	0			61.7%	0	0	0	
0	0		63.0%	0	0	0			63.0%	0	0	0	
0	0		64.2%	0	0	0			64.2%	0	0	0	
0	0		65.4% 66.7%	0	0	0			65.4% 66.7%	0	0	0	
0	0		67.9%	0	0	0			67.9%	0	0	0	
0	0		69.1%	0	0	0			69.1%	0	0	0	
0	0		70.4%	0	0	0			70.4%	0	0	0	
0	0		71.6%	0	0	0			71.6%	0	0	0	
0	0		72.8%	0	0	0			72.8%	0	0	0	
0	0		74.1%	0	0	0		_	74.1%	0	0	0	
0	0		75.3% 76.5%	0	0	0			75.3% 76.5%	0	0	0	
0	0		76.5%	0	0	0			76.5%	0	0	0	
0	0		79.0%	0	0	0			79.0%	0	0	0	
0	0		80.2%	0	0	0			80.2%	0	0	0	
ŏ	0		81.5%	0	ŏ	Ő			81.5%	õ	õ	0	
0	0		82.7%	0	0	0			82.7%	0	0	0	
0	0		84.0%	0	0	0			84.0%	0	0	0	
0	0		85.2%	0	0	0			85.2%	0	0	0	
0	0		86.4%	0	0	0			86.4%	0	0	0	
0	0		87.7%	0	0	0			87.7%	0	0	0	
0	0		88.9% 90.1%	0	0	0			88.9% 90.1%	0	0	0	
0	0		91.4%	0	0	0			91.4%	0	0	0	
0	0		92.6%	0	0	0			92.6%	0	0	0	
0	0		93.8%	0	ō	0			93.8%	ō	0	0	
0	0		95.1%	0	0	0			95.1%	0	0	0	
0	0		96.3%	0	0	0		_	96.3%	0	0	0	
0	0		97.5%	0	0	0			97.5%	0	0	0	
0.0	0.0		98.8% 100.0%	0	0.0	0			98.8% 100.0%	0.0	0.0	0.0	
0.0	0.0		100.0%	0.0	0.0	0.0			100.0%	0.0	0.0	0.0	