

**Trinity and Sacramento River Basin Operations**  
Summary Tables and Bar Charts

---

Table SW-01-a  
Trinity Lake, End of Month Storage  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	1,268	1,277	1,362	1,494	1,635	1,763	1,897	1,826	1,737	1,590	1,439	1,320
WSIP 2030 With Project	1,259	1,271	1,358	1,494	1,637	1,764	1,898	1,827	1,743	1,598	1,436	1,312
Difference	-10	-6	-4	0	3	1	1	1	6	8	-3	-8
Percent Difference <sup>2</sup>	-0.8%	-0.5%	-0.3%	0.0%	0.2%	0.1%	0.1%	0.1%	0.4%	0.5%	-0.2%	-0.6%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,537	1,526	1,600	1,772	1,940	2,062	2,230	2,167	2,043	1,904	1,769	1,626
WSIP 2030 With Project	1,517	1,510	1,585	1,775	1,950	2,070	2,235	2,172	2,057	1,913	1,753	1,608
Difference	-20	-16	-15	3	10	8	5	5	13	9	-16	-18
Percent Difference	-1.3%	-1.1%	-0.9%	0.2%	0.5%	0.4%	0.2%	0.2%	0.6%	0.5%	-0.9%	-1.1%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,457	1,458	1,512	1,637	1,817	1,994	2,149	2,057	1,970	1,810	1,655	1,511
WSIP 2030 With Project	1,469	1,481	1,537	1,632	1,819	2,002	2,158	2,067	1,988	1,838	1,679	1,527
Difference	12	23	25	-4	2	8	9	9	17	28	24	16
Percent Difference	0.8%	1.6%	1.7%	-0.3%	0.1%	0.4%	0.4%	0.5%	0.9%	1.6%	1.4%	1.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,260	1,269	1,361	1,400	1,552	1,699	1,848	1,781	1,705	1,572	1,406	1,306
WSIP 2030 With Project	1,238	1,249	1,343	1,390	1,542	1,686	1,837	1,770	1,698	1,563	1,391	1,289
Difference	-22	-19	-18	-10	-10	-13	-11	-11	-7	-9	-14	-17
Percent Difference	-1.7%	-1.5%	-1.3%	-0.7%	-0.6%	-0.7%	-0.6%	-0.6%	-0.4%	-0.6%	-1.0%	-1.3%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,085	1,127	1,274	1,368	1,478	1,615	1,720	1,636	1,549	1,376	1,211	1,104
WSIP 2030 With Project	1,078	1,123	1,269	1,369	1,480	1,603	1,710	1,626	1,543	1,387	1,210	1,093
Difference	-7	-4	-5	1	2	-12	-11	-11	-6	11	-1	-11
Percent Difference	-0.6%	-0.4%	-0.4%	0.1%	0.1%	-0.8%	-0.6%	-0.6%	-0.4%	0.8%	-0.1%	-1.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	776	788	837	1,075	1,142	1,200	1,254	1,201	1,162	1,027	889	800
WSIP 2030 With Project	781	791	847	1,084	1,150	1,217	1,272	1,217	1,178	1,035	897	807
Difference	4	3	10	8	8	18	18	16	16	8	8	7
Percent Difference	0.5%	0.4%	1.2%	0.8%	0.7%	1.5%	1.4%	1.3%	1.4%	0.8%	0.9%	0.9%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-02-a  
Trinity Lake, End of Month Elevation  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	2,279	2,280	2,288	2,301	2,313	2,323	2,333	2,327	2,321	2,309	2,295	2,284
WSIP 2030 With Project	2,278	2,280	2,288	2,301	2,313	2,323	2,333	2,328	2,321	2,309	2,295	2,284
Difference	-1	0	0	0	0	0	0	0	1	1	0	-1
Percent Difference <sup>2</sup>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	2,305	2,305	2,311	2,325	2,340	2,348	2,357	2,353	2,346	2,336	2,325	2,313
WSIP 2030 With Project	2,304	2,303	2,310	2,326	2,341	2,348	2,358	2,354	2,347	2,336	2,324	2,312
Difference	-2	-1	-1	0	1	1	0	0	1	1	-1	-2
Percent Difference	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	2,299	2,299	2,304	2,313	2,329	2,342	2,352	2,346	2,340	2,329	2,316	2,303
WSIP 2030 With Project	2,300	2,301	2,306	2,313	2,329	2,343	2,353	2,347	2,342	2,331	2,318	2,305
Difference	1	2	2	0	0	1	1	1	1	2	2	1
Percent Difference	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	2,281	2,282	2,290	2,293	2,307	2,319	2,331	2,326	2,320	2,309	2,294	2,285
WSIP 2030 With Project	2,279	2,280	2,288	2,292	2,306	2,318	2,330	2,325	2,319	2,308	2,293	2,284
Difference	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-2
Percent Difference	-0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	2,262	2,266	2,280	2,290	2,300	2,312	2,321	2,314	2,307	2,291	2,276	2,265
WSIP 2030 With Project	2,262	2,266	2,280	2,291	2,300	2,311	2,320	2,313	2,306	2,292	2,276	2,264
Difference	-1	0	0	0	0	-1	-1	-1	0	1	0	-1
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	2,225	2,227	2,234	2,261	2,268	2,274	2,279	2,274	2,271	2,256	2,238	2,228
WSIP 2030 With Project	2,226	2,228	2,236	2,262	2,269	2,276	2,281	2,276	2,272	2,257	2,240	2,230
Difference	1	1	2	1	1	2	2	2	2	1	2	2
Percent Difference	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-03-a  
Trinity Lake, End of Month Area  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Area (ACRE)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	10,500	10,556	11,038	11,744	12,473	13,098	13,700	13,379	12,979	12,246	11,440	10,792
WSIP 2030 With Project	10,449	10,526	11,022	11,745	12,489	13,105	13,709	13,387	13,007	12,288	11,425	10,751
Difference	-51	-31	-16	1	15	7	9	8	29	42	-15	-42
Percent Difference <sup>2</sup>	-0.5%	-0.3%	-0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.3%	-0.1%	-0.4%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	12,076	12,029	12,405	13,225	14,022	14,537	15,219	14,958	14,445	13,838	13,221	12,536
WSIP 2030 With Project	11,977	11,948	12,334	13,244	14,068	14,573	15,242	14,980	14,503	13,885	13,149	12,449
Difference	-99	-81	-71	19	46	35	22	22	58	47	-72	-87
Percent Difference	-0.8%	-0.7%	-0.6%	0.1%	0.3%	0.2%	0.1%	0.1%	0.4%	0.3%	-0.5%	-0.7%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	11,661	11,655	11,952	12,490	13,389	14,218	14,875	14,497	14,134	13,428	12,693	11,965
WSIP 2030 With Project	11,731	11,788	12,095	12,489	13,418	14,264	14,920	14,545	14,212	13,559	12,813	12,053
Difference	70	133	143	0	28	46	45	48	78	131	120	88
Percent Difference	0.6%	1.1%	1.2%	0.0%	0.2%	0.3%	0.3%	0.3%	0.5%	1.0%	0.9%	0.7%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	10,549	10,600	11,125	11,307	12,121	12,869	13,596	13,305	12,939	12,291	11,389	10,818
WSIP 2030 With Project	10,417	10,481	11,020	11,237	12,058	12,800	13,541	13,247	12,899	12,241	11,311	10,718
Difference	-132	-118	-105	-70	-63	-69	-55	-58	-40	-50	-77	-100
Percent Difference	-1.3%	-1.1%	-0.9%	-0.6%	-0.5%	-0.5%	-0.4%	-0.4%	-0.3%	-0.4%	-0.7%	-0.9%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	9,435	9,688	10,526	11,126	11,766	12,480	12,993	12,588	12,155	11,205	10,240	9,581
WSIP 2030 With Project	9,392	9,662	10,504	11,142	11,782	12,422	12,954	12,547	12,120	11,262	10,223	9,504
Difference	-43	-26	-22	15	16	-58	-40	-42	-35	56	-17	-77
Percent Difference	-0.5%	-0.3%	-0.2%	0.1%	0.1%	-0.5%	-0.3%	-0.3%	-0.3%	0.5%	-0.2%	-0.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	7,405	7,486	7,837	9,354	9,774	10,126	10,447	10,134	9,921	9,071	8,151	7,565
WSIP 2030 With Project	7,440	7,514	7,908	9,400	9,821	10,229	10,549	10,229	10,023	9,123	8,211	7,618
Difference	35	28	71	46	48	103	103	95	102	52	61	53
Percent Difference	0.5%	0.4%	0.9%	0.5%	0.5%	1.0%	1.0%	0.9%	1.0%	0.6%	0.7%	0.7%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-04-a  
Trinity River below Lewiston Reservoir, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
Full Simulation Period <sup>1</sup>												
WSIP 2030 Without Project	373	300	479	688	867	767	523	3,867	2,024	863	450	450
WSIP 2030 With Project	373	300	473	608	839	775	536	3,867	2,024	863	450	450
Difference	0	0	-6	-80	-27	8	13	0	0	0	0	0
Percent Difference <sup>2</sup>	0.0%	0.0%	-1.3%	-11.7%	-3.2%	1.1%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	373	300	598	1,385	1,957	1,647	540	4,665	3,198	1,102	450	450
WSIP 2030 With Project	373	300	579	1,196	1,904	1,685	582	4,665	3,198	1,102	450	450
Difference	0	0	-19	-189	-53	38	42	0	0	0	0	0
Percent Difference	0.0%	0.0%	-3.2%	-13.7%	-2.7%	2.3%	7.8%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	373	300	775	694	721	686	466	4,622	2,458	1,102	450	450
WSIP 2030 With Project	373	300	775	538	645	662	466	4,622	2,458	1,102	450	450
Difference	0	0	0	-155	-76	-24	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	-22.4%	-10.6%	-3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	373	300	300	300	300	300	504	3,834	1,720	872	450	450
WSIP 2030 With Project	373	300	300	300	300	300	504	3,834	1,720	872	450	450
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	373	300	398	300	300	300	528	3,240	1,117	613	450	450
WSIP 2030 With Project	373	300	395	300	300	300	528	3,240	1,117	613	450	450
Difference	0	0	-3	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	-0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	373	300	300	300	300	300	565	2,330	783	450	450	450
WSIP 2030 With Project	373	300	300	300	300	300	565	2,330	783	450	450	450
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

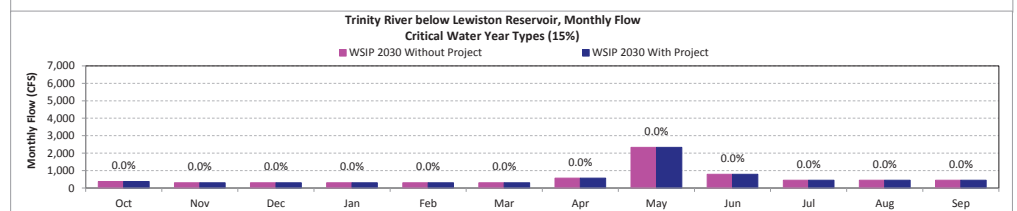
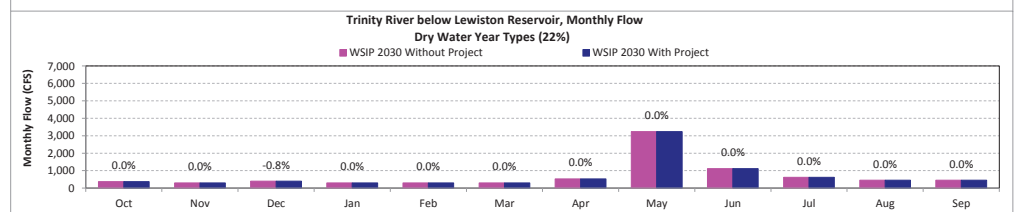
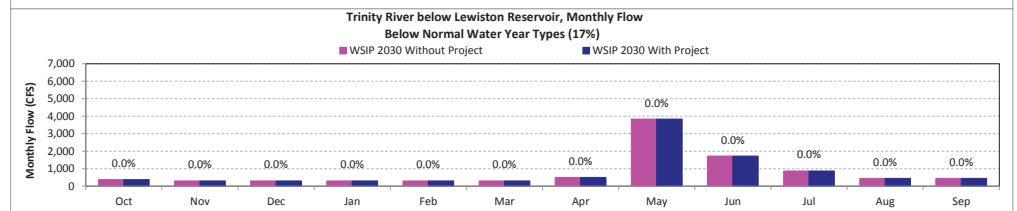
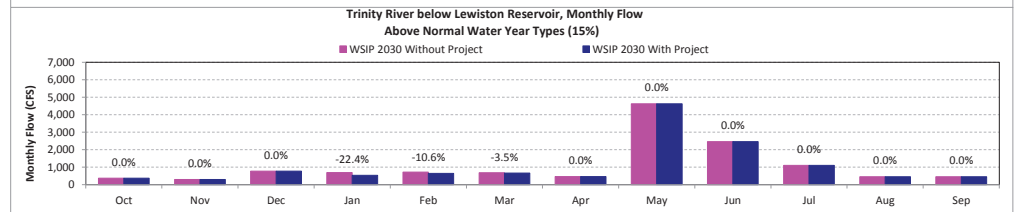
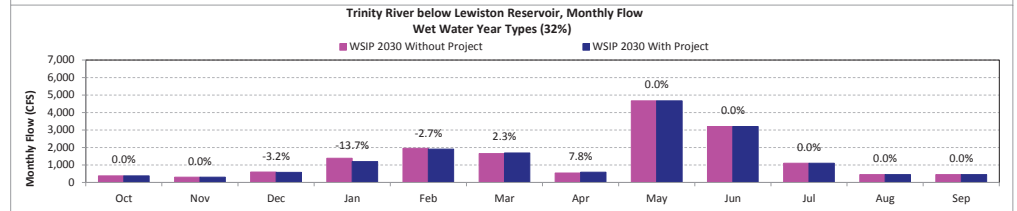
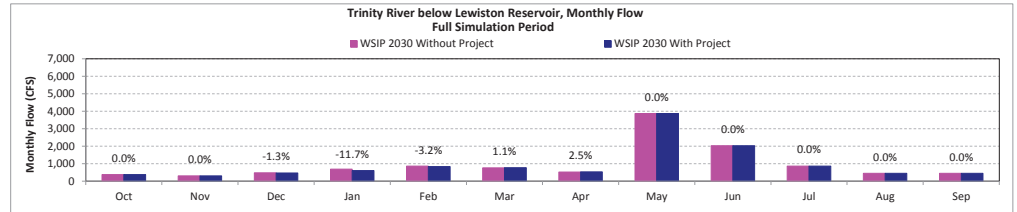


Table SW-05-a  
Clear Creek Tunnel, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	809	495	258	236	209	331	343	79	558	1,748	2,059	1,684
WSIP 2030 With Project	832	435	231	258	179	351	327	83	470	1,715	2,249	1,762
Difference	23	-60	-27	22	-29	20	-16	5	-88	-33	190	77
Percent Difference <sup>2</sup>	2.8%	-12.1%	-10.4%	9.5%	-14.0%	5.9%	-4.7%	5.8%	-15.8%	-1.9%	9.2%	4.6%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,270	935	434	438	298	559	477	0	212	1,489	1,812	2,090
WSIP 2030 With Project	1,298	875	429	493	232	555	477	0	79	1,559	2,220	2,120
Difference	28	-60	-5	56	-66	-3	0	0	-133	71	408	29
Percent Difference	2.2%	-6.4%	-1.2%	12.7%	-22.3%	-0.6%	0.0%	0.0%	-62.8%	4.7%	22.5%	1.4%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,072	758	407	131	111	353	281	0	337	1,688	2,124	2,030
WSIP 2030 With Project	1,127	573	367	111	67	285	257	0	201	1,508	2,201	2,163
Difference	55	-185	-39	-20	-45	-69	-25	0	-136	-181	76	133
Percent Difference	5.1%	-24.5%	-9.6%	-15.3%	-40.1%	-19.4%	-8.8%	0.0%	-40.4%	-10.7%	3.6%	6.5%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	618	294	120	144	106	111	216	71	531	1,445	2,292	1,410
WSIP 2030 With Project	691	250	94	156	97	156	184	71	466	1,476	2,382	1,462
Difference	74	-44	-25	12	-9	45	-32	0	-65	31	91	53
Percent Difference	11.9%	-15.0%	-21.3%	8.5%	-8.3%	40.5%	-14.8%	0.0%	-12.2%	2.2%	4.0%	3.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	580	146	59	179	333	206	320	197	1,194	2,395	2,298	1,423
WSIP 2030 With Project	502	106	69	198	324	436	293	195	1,122	2,122	2,482	1,605
Difference	-77	-40	9	19	-9	230	-27	-2	-72	-273	184	181
Percent Difference	-13.3%	-27.5%	15.2%	10.7%	-2.8%	111.4%	-8.4%	-1.2%	-6.0%	-11.4%	8.0%	12.7%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	167	67	204	124	99	315	339	176	694	1,917	1,858	1,231
WSIP 2030 With Project	208	83	94	139	107	154	335	210	692	2,046	1,856	1,248
Difference	42	17	-110	15	8	-161	-5	34	-1	129	-2	17
Percent Difference	25.0%	25.0%	-53.8%	11.7%	8.4%	-51.1%	-1.3%	19.6%	-0.2%	6.7%	-0.1%	1.4%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

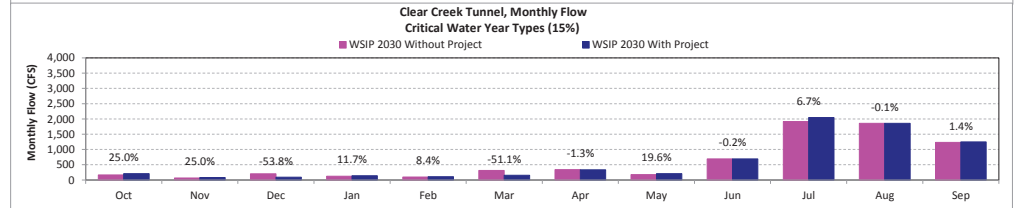
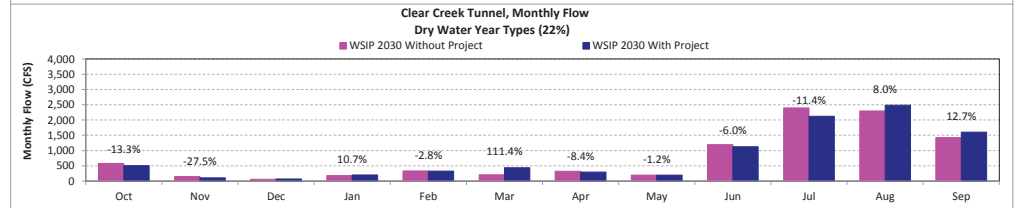
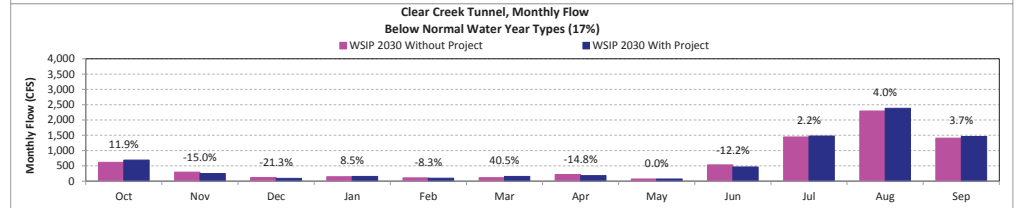
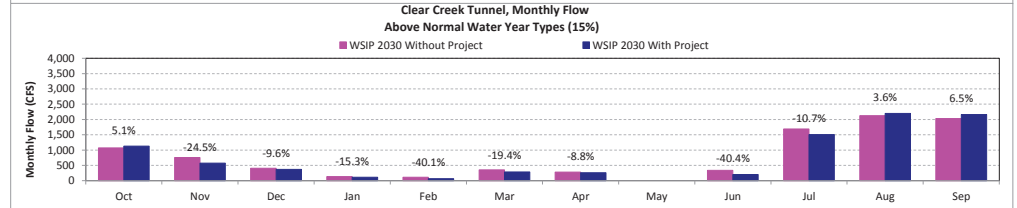
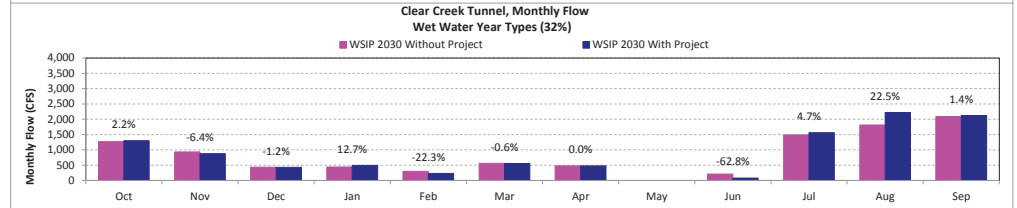
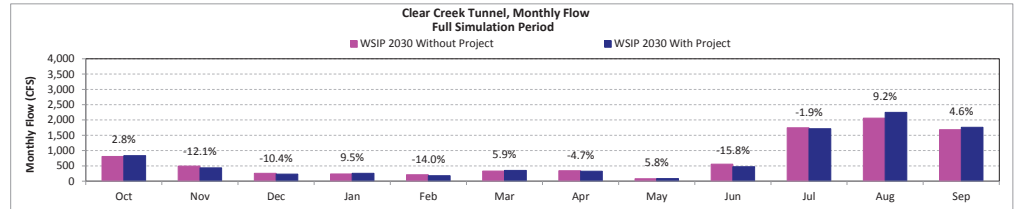


Table SW-06-a  
Clear Creek below Whiskeytown Reservoir, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	187	188	190	223	259	226	191	265	181	85	85	148
WSIP 2030 With Project	187	188	190	223	237	226	191	265	181	85	85	148
Difference	0	0	0	0	-22	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	0.0%	0.0%	0.0%	0.0%	-8.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	200	200	200	303	423	312	200	277	200	85	85	150
WSIP 2030 With Project	200	200	200	303	350	312	200	277	200	85	85	150
Difference	0	0	0	0	-72	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	-17.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	200	200	200	196	196	196	196	277	200	85	85	150
WSIP 2030 With Project	200	200	200	196	196	196	196	277	200	85	85	150
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	188	188	188	188	188	188	188	268	182	85	85	150
WSIP 2030 With Project	188	188	188	188	188	188	188	268	182	85	85	150
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	184	188	188	194	194	194	194	265	183	85	85	150
WSIP 2030 With Project	184	188	188	194	194	194	194	265	183	85	85	150
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	146	149	163	171	171	171	171	224	120	85	85	133
WSIP 2030 With Project	146	149	163	171	171	171	171	224	120	85	85	133
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

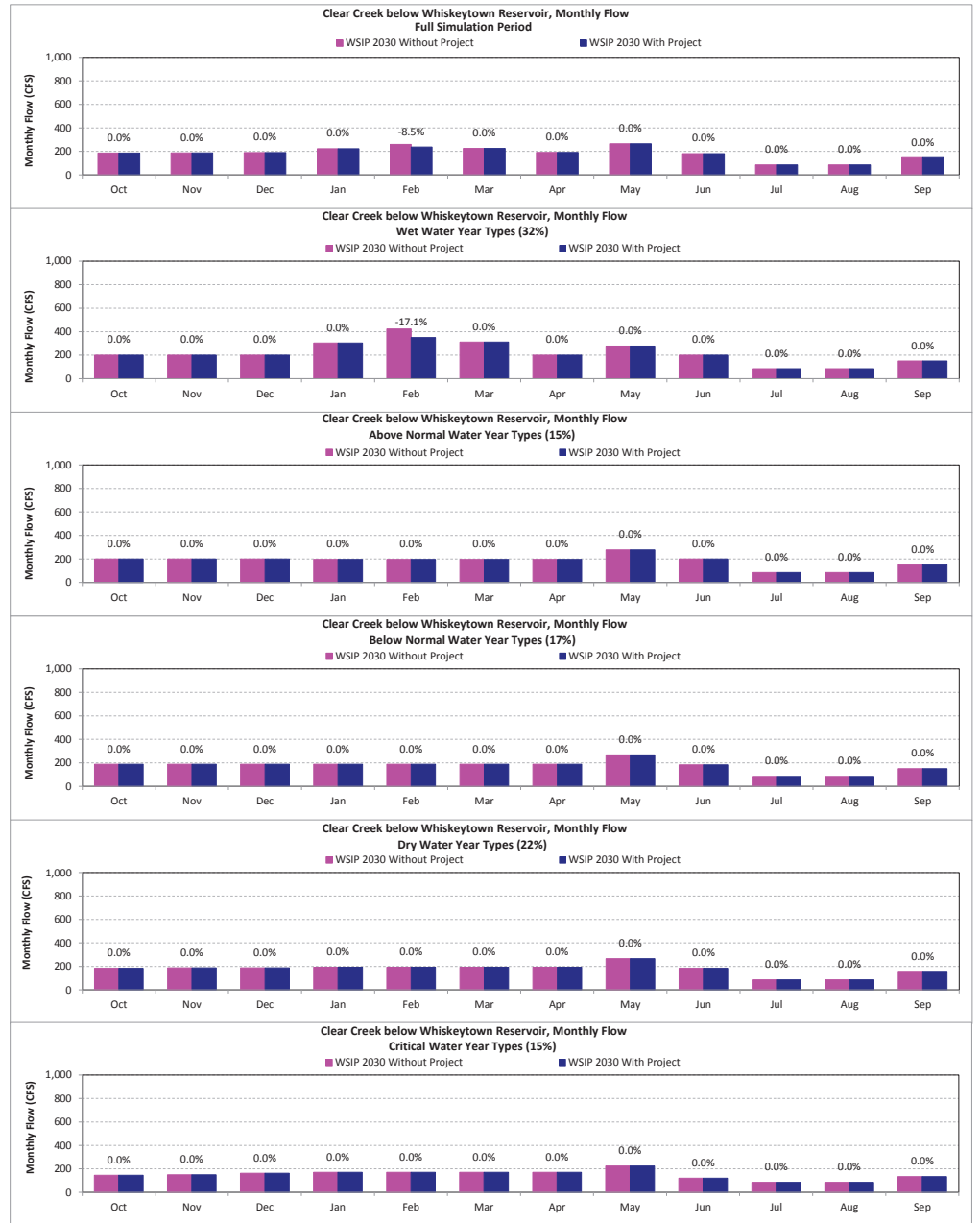


Table SW-07-a  
Shasta Lake, End of Month Storage  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	2,475	2,490	2,743	3,066	3,365	3,750	3,989	3,950	3,560	3,013	2,716	2,544
WSIP 2030 With Project	2,560	2,562	2,794	3,109	3,396	3,777	4,021	4,009	3,648	3,105	2,808	2,627
Difference	85	73	52	44	31	27	31	59	88	92	92	83
Percent Difference <sup>2</sup>	3.4%	2.9%	1.9%	1.4%	0.9%	0.7%	0.8%	1.5%	2.5%	3.1%	3.4%	3.3%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	2,698	2,625	2,901	3,436	3,579	3,865	4,280	4,387	4,082	3,557	3,251	2,837
WSIP 2030 With Project	2,718	2,634	2,897	3,439	3,579	3,865	4,285	4,405	4,086	3,561	3,263	2,855
Difference	20	9	-4	4	0	0	6	18	4	4	12	18
Percent Difference	0.7%	0.3%	-0.1%	0.1%	0.0%	0.0%	0.1%	0.4%	0.1%	0.1%	0.4%	0.6%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	2,652	2,580	2,818	3,205	3,562	4,014	4,364	4,322	3,908	3,319	2,999	2,758
WSIP 2030 With Project	2,821	2,708	2,875	3,258	3,591	4,015	4,372	4,359	4,031	3,432	3,146	2,940
Difference	169	129	57	53	29	1	8	37	123	113	147	182
Percent Difference	6.4%	5.0%	2.0%	1.7%	0.8%	0.0%	0.2%	0.9%	3.1%	3.4%	4.9%	6.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	2,744	2,803	2,983	2,976	3,418	3,925	4,214	4,133	3,700	3,078	2,774	2,771
WSIP 2030 With Project	2,797	2,838	2,996	3,014	3,437	3,942	4,209	4,155	3,779	3,160	2,873	2,836
Difference	53	35	14	38	19	17	-5	22	80	83	98	65
Percent Difference	1.9%	1.3%	0.5%	1.3%	0.6%	0.4%	-0.1%	0.5%	2.2%	2.7%	3.5%	2.3%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	2,465	2,593	2,899	2,857	3,275	3,717	3,786	3,663	3,252	2,766	2,486	2,457
WSIP 2030 With Project	2,527	2,652	2,951	2,924	3,325	3,778	3,854	3,765	3,379	2,884	2,572	2,514
Difference	62	59	52	67	50	61	67	101	126	118	86	57
Percent Difference	2.5%	2.3%	1.8%	2.3%	1.5%	1.6%	1.8%	2.8%	3.9%	4.3%	3.5%	2.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	1,465	1,535	1,791	2,560	2,768	3,043	2,961	2,787	2,337	1,810	1,540	1,515
WSIP 2030 With Project	1,678	1,756	2,005	2,656	2,858	3,120	3,073	2,953	2,524	2,042	1,746	1,696
Difference	213	221	214	95	89	77	112	166	187	232	206	181
Percent Difference	14.5%	14.4%	12.0%	3.7%	3.2%	2.5%	3.8%	6.0%	8.0%	12.8%	13.3%	12.0%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average





Table SW-08-a  
Shasta Lake, End of Month Elevation  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	979	980	993	1,008	1,021	1,037	1,046	1,044	1,028	1,004	990	983
WSIP 2030 With Project	984	984	996	1,010	1,023	1,038	1,047	1,046	1,032	1,009	995	987
Difference	5	4	3	2	1	1	1	2	4	5	5	5
Percent Difference <sup>2</sup>	0.5%	0.4%	0.3%	0.2%	0.1%	0.1%	0.1%	0.2%	0.4%	0.5%	0.5%	0.5%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	992	989	1,001	1,025	1,031	1,042	1,057	1,061	1,050	1,030	1,017	998
WSIP 2030 With Project	993	989	1,001	1,025	1,031	1,042	1,057	1,062	1,050	1,030	1,017	999
Difference	1	0	0	0	0	0	0	1	0	0	1	1
Percent Difference	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	990	987	998	1,015	1,030	1,048	1,060	1,059	1,044	1,020	1,006	995
WSIP 2030 With Project	998	993	1,000	1,017	1,031	1,048	1,061	1,060	1,048	1,025	1,012	1,003
Difference	8	6	3	3	1	0	0	1	5	5	6	8
Percent Difference	0.8%	0.6%	0.3%	0.3%	0.1%	0.0%	0.0%	0.1%	0.4%	0.5%	0.6%	0.8%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	994	997	1,005	1,004	1,024	1,044	1,055	1,052	1,035	1,009	996	995
WSIP 2030 With Project	997	999	1,006	1,006	1,024	1,045	1,055	1,053	1,038	1,013	1,000	999
Difference	3	2	1	2	1	1	0	1	3	4	5	3
Percent Difference	0.3%	0.2%	0.1%	0.2%	0.1%	0.1%	0.0%	0.1%	0.3%	0.4%	0.5%	0.3%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	980	986	1,001	999	1,018	1,036	1,038	1,033	1,017	995	982	980
WSIP 2030 With Project	983	989	1,004	1,002	1,020	1,038	1,041	1,037	1,022	1,000	986	983
Difference	3	3	3	3	2	2	3	4	5	5	4	3
Percent Difference	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%	0.3%	0.4%	0.5%	0.5%	0.4%	0.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	918	923	942	984	994	1,007	1,003	995	972	941	923	921
WSIP 2030 With Project	934	939	955	989	998	1,011	1,008	1,003	982	956	937	935
Difference	16	16	13	5	4	3	5	8	11	15	14	14
Percent Difference	1.7%	1.7%	1.4%	0.5%	0.4%	0.3%	0.5%	0.8%	1.1%	1.6%	1.6%	1.5%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-09-a  
Shasta Lake, End of Month Area  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Area (ACRE)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	19,643	19,731	21,149	22,914	24,494	26,379	27,423	27,208	25,355	22,560	20,956	20,029
WSIP 2030 With Project	20,141	20,163	21,446	23,157	24,660	26,515	27,584	27,504	25,805	23,080	21,481	20,510
Difference	499	432	297	242	166	137	160	296	450	520	524	481
Percent Difference <sup>2</sup>	2.5%	2.2%	1.4%	1.1%	0.7%	0.5%	0.6%	1.1%	1.8%	2.3%	2.5%	2.4%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	20,952	20,554	22,047	24,918	25,639	26,973	28,831	29,293	27,947	25,498	23,932	21,703
WSIP 2030 With Project	21,059	20,601	22,024	24,938	25,639	26,974	28,854	29,370	27,966	25,534	23,996	21,799
Difference	107	47	-22	20	0	1	24	77	19	36	64	95
Percent Difference	0.5%	0.2%	-0.1%	0.1%	0.0%	0.0%	0.1%	0.3%	0.1%	0.1%	0.3%	0.4%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	20,694	20,306	21,599	23,676	25,554	27,666	29,193	29,013	27,202	24,283	22,586	21,278
WSIP 2030 With Project	21,626	21,013	21,908	23,971	25,707	27,670	29,229	29,173	27,750	24,879	23,373	22,266
Difference	931	707	309	295	154	4	35	160	548	596	787	988
Percent Difference	4.5%	3.5%	1.4%	1.2%	0.6%	0.0%	0.1%	0.6%	2.0%	2.5%	3.5%	4.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	21,198	21,521	22,492	22,435	24,769	27,276	28,551	28,186	26,165	22,993	21,362	21,344
WSIP 2030 With Project	21,499	21,724	22,571	22,647	24,870	27,353	28,528	28,289	26,563	23,430	21,904	21,703
Difference	301	203	79	211	101	78	-23	103	398	437	542	359
Percent Difference	1.4%	0.9%	0.4%	0.9%	0.4%	0.3%	-0.1%	0.4%	1.5%	1.9%	2.5%	1.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	19,642	20,344	22,031	21,804	24,021	26,217	26,508	25,909	23,936	21,311	19,784	19,617
WSIP 2030 With Project	19,991	20,680	22,322	22,171	24,285	26,522	26,837	26,399	24,559	21,946	20,249	19,929
Difference	348	336	291	367	264	305	329	490	622	635	465	312
Percent Difference	1.8%	1.7%	1.3%	1.7%	1.1%	1.2%	1.2%	1.9%	2.6%	3.0%	2.4%	1.6%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	13,660	14,091	15,748	20,138	21,288	22,797	22,344	21,404	18,850	15,766	14,115	13,978
WSIP 2030 With Project	15,024	15,504	17,018	20,667	21,776	23,208	22,950	22,307	19,948	17,180	15,388	15,153
Difference	1,363	1,413	1,269	529	488	411	605	903	1,097	1,415	1,273	1,175
Percent Difference	10.0%	10.0%	8.1%	2.6%	2.3%	1.8%	2.7%	4.2%	5.8%	9.0%	9.0%	8.4%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-10-a  
Sacramento River below Keswick Reservoir, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
Full Simulation Period <sup>1</sup>												
WSIP 2030 Without Project	6,401	6,731	6,528	8,983	11,573	8,809	6,949	7,602	11,338	14,006	10,032	8,215
WSIP 2030 With Project	6,377	6,883	6,846	9,130	11,792	8,895	6,859	7,148	10,770	13,882	10,207	8,451
Difference	-24	153	317	147	219	85	-91	-455	-568	-124	176	236
Percent Difference <sup>2</sup>	-0.4%	2.3%	4.9%	1.6%	1.9%	1.0%	-1.3%	-6.0%	-5.0%	-0.9%	1.8%	2.9%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	7,508	8,857	6,744	17,694	23,395	16,416	8,912	7,496	10,336	13,814	10,215	12,700
WSIP 2030 With Project	7,497	8,985	6,947	18,071	23,470	16,410	8,821	7,295	10,438	13,880	10,496	12,634
Difference	-11	128	203	378	75	-6	-91	-201	101	66	281	-66
Percent Difference	-0.1%	1.4%	3.0%	2.1%	0.3%	0.0%	-1.0%	-2.7%	1.0%	0.5%	2.7%	-0.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	6,634	9,171	6,246	9,823	12,932	10,150	5,854	7,817	11,874	14,752	10,728	9,615
WSIP 2030 With Project	6,802	9,668	7,370	9,522	13,319	10,532	5,708	7,343	10,297	14,719	10,240	9,153
Difference	168	497	1,124	-301	387	382	-147	-474	-1,577	-32	-488	-462
Percent Difference	2.5%	5.4%	18.0%	-3.1%	3.0%	3.8%	-2.5%	-6.1%	-13.3%	-0.2%	-4.5%	-4.8%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	5,286	5,014	7,102	4,556	5,693	4,243	5,943	8,021	11,893	14,866	10,370	5,845
WSIP 2030 With Project	5,546	5,273	7,429	4,549	6,021	4,313	6,292	7,584	10,848	14,843	10,201	6,451
Difference	260	259	326	-7	327	70	349	-437	-1,046	-23	-168	606
Percent Difference	4.9%	5.2%	4.6%	-0.2%	5.8%	1.6%	5.9%	-5.5%	-8.8%	-0.2%	-1.6%	10.4%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	6,847	5,656	8,163	3,585	4,368	4,621	6,039	7,405	11,844	13,341	9,691	5,092
WSIP 2030 With Project	6,686	5,667	8,284	3,941	4,652	4,681	5,900	6,846	11,347	13,188	10,393	5,751
Difference	-161	11	120	356	284	60	-140	-560	-497	-153	702	658
Percent Difference	-2.4%	0.2%	1.5%	9.9%	6.5%	1.3%	-2.3%	-7.6%	-4.2%	-1.1%	7.2%	12.9%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	4,842	3,725	3,368	3,464	3,522	3,676	6,595	7,279	11,427	13,330	8,931	4,994
WSIP 2030 With Project	4,381	3,623	3,366	3,518	3,635	3,709	6,003	6,429	11,054	12,612	9,337	5,472
Difference	-461	-102	-2	54	112	33	-592	-850	-372	-718	406	478
Percent Difference	-9.5%	-2.7%	-0.1%	1.6%	3.2%	0.9%	-9.0%	-11.7%	-3.3%	-5.4%	4.5%	9.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-11-a  
Sacramento River at Bend Bridge, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	7,298	9,055	11,795	16,301	19,680	14,981	10,540	9,305	12,118	14,270	10,237	8,689
WSIP 2030 With Project	7,272	9,208	12,112	16,447	19,878	15,067	10,450	8,852	11,554	14,148	10,406	8,922
Difference	-26	154	317	145	198	85	-90	-453	-564	-122	169	233
Percent Difference <sup>2</sup>	-0.4%	1.7%	2.7%	0.9%	1.0%	0.6%	-0.9%	-4.9%	-4.7%	-0.9%	1.7%	2.7%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	8,383	11,515	12,390	30,290	36,187	25,621	14,696	9,920	11,490	14,349	10,507	13,249
WSIP 2030 With Project	8,374	11,644	12,593	30,667	36,188	25,617	14,607	9,721	11,594	14,415	10,787	13,181
Difference	-10	129	203	377	2	-5	-90	-199	104	65	280	-69
Percent Difference	-0.1%	1.1%	1.6%	1.2%	0.0%	0.0%	-0.6%	-2.0%	0.9%	0.5%	2.7%	-0.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	7,485	11,316	10,617	19,229	21,644	17,271	9,691	9,707	12,724	14,892	10,890	9,984
WSIP 2030 With Project	7,653	11,810	11,738	18,929	22,033	17,651	9,543	9,236	11,152	14,867	10,399	9,523
Difference	168	494	1,120	-300	389	381	-148	-471	-1,572	-25	-491	-462
Percent Difference	2.2%	4.4%	10.6%	-1.6%	1.8%	2.2%	-1.5%	-4.9%	-12.4%	-0.2%	-4.5%	-4.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	6,327	7,276	12,313	9,346	12,207	9,156	9,404	9,494	12,546	15,016	10,542	6,435
WSIP 2030 With Project	6,581	7,533	12,639	9,338	12,535	9,225	9,754	9,055	11,506	14,999	10,372	7,039
Difference	254	258	326	-8	328	69	350	-439	-1,040	-17	-170	604
Percent Difference	4.0%	3.5%	2.6%	-0.1%	2.7%	0.8%	3.7%	-4.6%	-8.3%	-0.1%	-1.6%	9.4%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	7,889	8,237	14,959	7,023	10,054	9,274	7,877	8,608	12,378	13,462	9,861	5,481
WSIP 2030 With Project	7,723	8,252	15,080	7,374	10,338	9,335	7,738	8,051	11,886	13,310	10,561	6,131
Difference	-165	15	121	351	284	61	-138	-557	-492	-152	700	650
Percent Difference	-2.1%	0.2%	0.8%	5.0%	2.8%	0.7%	-1.8%	-6.5%	-4.0%	-1.1%	7.1%	11.9%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	5,436	5,279	6,780	6,455	6,751	6,387	7,891	8,283	11,863	13,505	9,093	5,365
WSIP 2030 With Project	4,970	5,181	6,778	6,506	6,864	6,421	7,300	7,439	11,498	12,787	9,463	5,835
Difference	-465	-97	-2	52	113	33	-591	-844	-365	-718	370	471
Percent Difference	-8.6%	-1.8%	0.0%	0.8%	1.7%	0.5%	-7.5%	-10.2%	-3.1%	-5.3%	4.1%	8.8%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

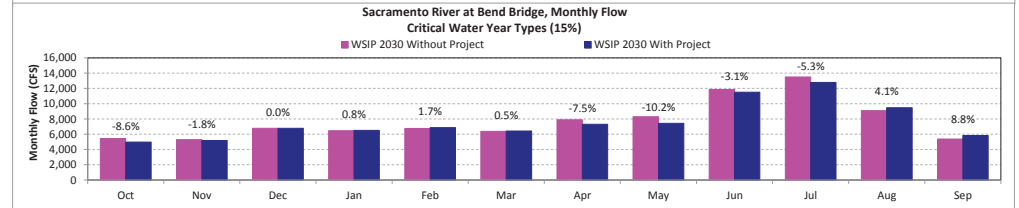
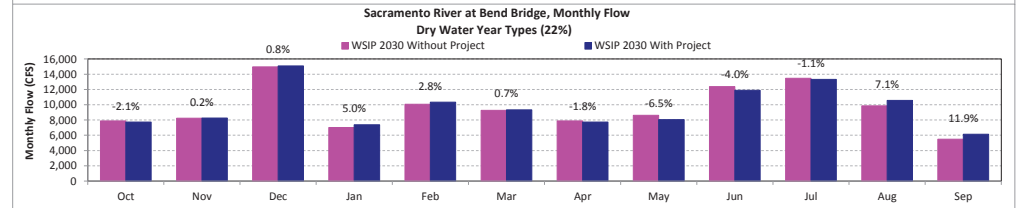
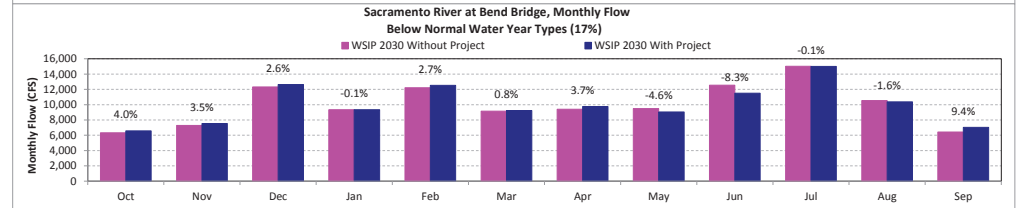
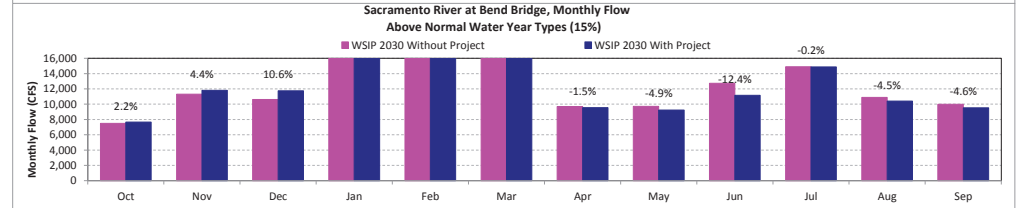
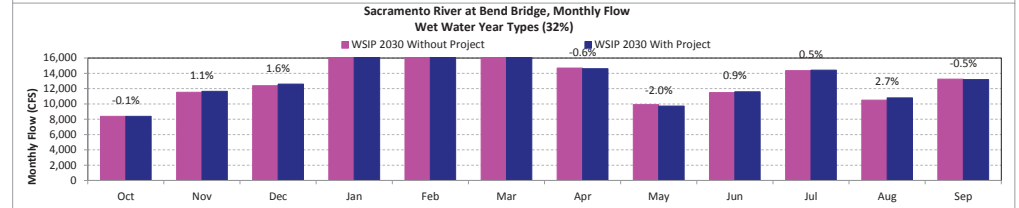
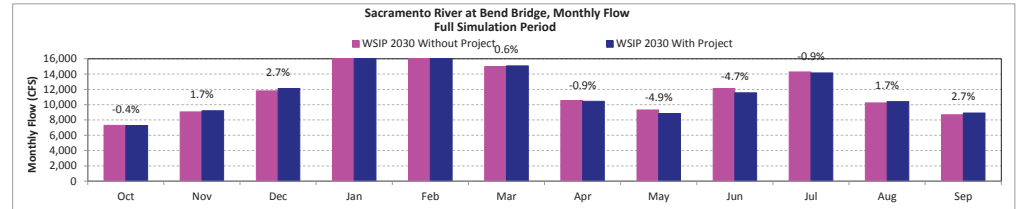


Table SW-12-a  
Sacramento River below Red Bluff Diversion Dam, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	7,198	9,074	11,860	16,487	19,820	15,065	10,477	9,012	11,504	13,624	9,718	8,588
WSIP 2030 With Project	7,101	9,061	11,404	15,398	18,673	14,107	10,144	8,580	11,015	13,643	9,953	8,860
Difference	-98	-14	-456	-1,089	-1,147	-959	-333	-432	-489	19	236	271
Percent Difference <sup>2</sup>	-1.4%	-0.1%	-3.8%	-6.6%	-5.8%	-6.4%	-3.2%	-4.8%	-4.3%	0.1%	2.4%	3.2%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	8,254	11,542	12,462	30,619	36,423	25,766	14,678	9,484	10,591	13,352	9,715	13,096
WSIP 2030 With Project	8,235	11,509	11,719	29,637	35,247	24,959	14,222	9,369	10,709	13,530	10,024	13,093
Difference	-19	-33	-743	-982	-1,176	-807	-456	-115	117	178	310	-3
Percent Difference	-0.2%	-0.3%	-6.0%	-3.2%	-3.2%	-3.1%	-3.1%	-1.2%	1.1%	1.3%	3.2%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	7,378	11,332	10,661	19,476	21,824	17,392	9,574	9,295	11,882	14,003	10,203	9,841
WSIP 2030 With Project	7,377	11,346	10,374	17,639	20,476	16,650	9,203	8,837	10,510	14,407	9,892	9,468
Difference	-1	14	-288	-1,837	-1,347	-742	-371	-458	-1,372	404	-311	-373
Percent Difference	0.0%	0.1%	-2.7%	-9.4%	-6.2%	-4.3%	-3.9%	-4.9%	-11.5%	2.9%	-3.0%	-3.8%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	6,229	7,299	12,388	9,482	12,303	9,193	9,311	9,229	11,997	14,447	10,093	6,368
WSIP 2030 With Project	6,501	7,552	12,589	8,125	11,506	7,993	9,243	8,759	11,101	14,637	10,045	6,984
Difference	272	253	201	-1,357	-797	-1,200	-68	-470	-896	190	-48	616
Percent Difference	4.4%	3.5%	1.6%	-14.3%	-6.5%	-13.1%	-0.7%	-5.1%	-7.5%	1.3%	-0.5%	9.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	7,815	8,259	15,040	7,089	10,132	9,341	7,814	8,467	12,023	13,158	9,619	5,433
WSIP 2030 With Project	7,398	8,094	14,498	6,292	8,624	8,089	7,625	7,930	11,591	13,018	10,344	6,086
Difference	-417	-165	-542	-796	-1,508	-1,252	-188	-537	-432	-140	725	652
Percent Difference	-5.3%	-2.0%	-3.6%	-11.2%	-14.9%	-13.4%	-2.4%	-6.3%	-3.6%	-1.1%	7.5%	12.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	5,370	5,278	6,815	6,510	6,789	6,396	7,830	8,161	11,635	13,267	8,837	5,298
WSIP 2030 With Project	4,913	5,101	5,975	5,934	5,892	5,640	7,225	7,291	11,266	12,540	9,216	5,788
Difference	-457	-177	-839	-575	-897	-757	-605	-870	-369	-727	379	490
Percent Difference	-8.5%	-3.4%	-12.3%	-8.8%	-13.2%	-11.8%	-7.7%	-10.7%	-3.2%	-5.5%	4.3%	9.2%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

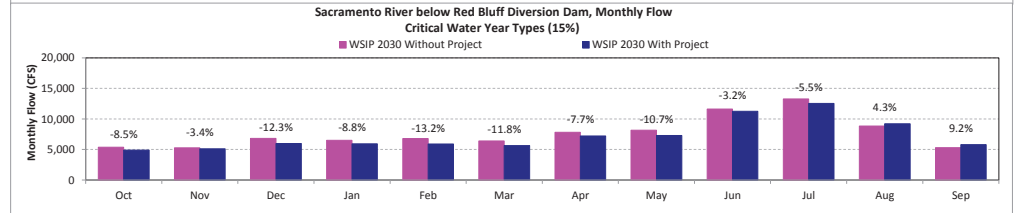
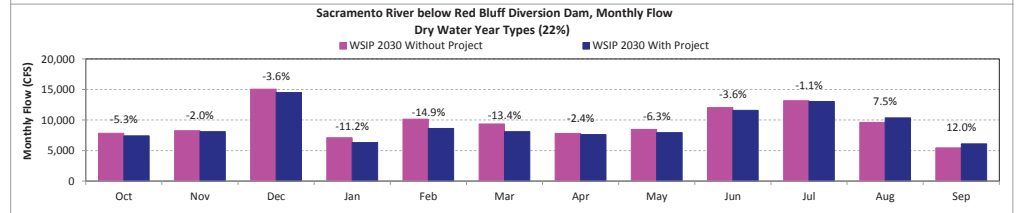
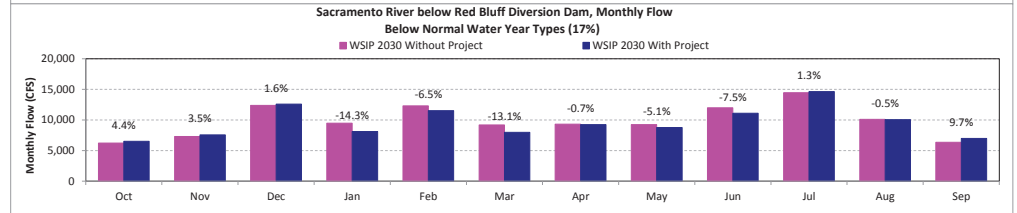
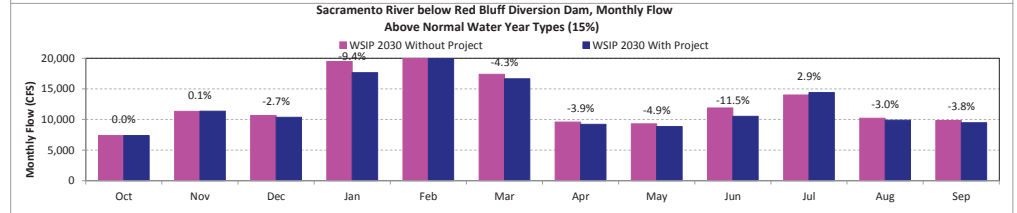
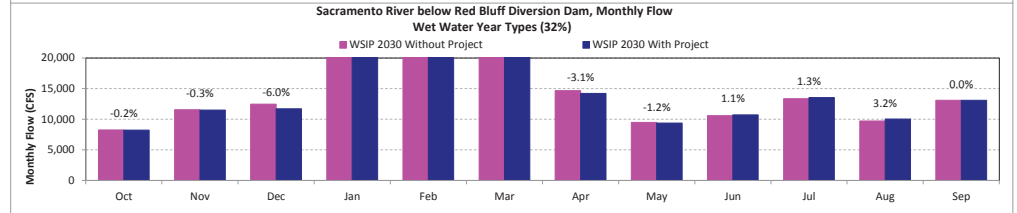
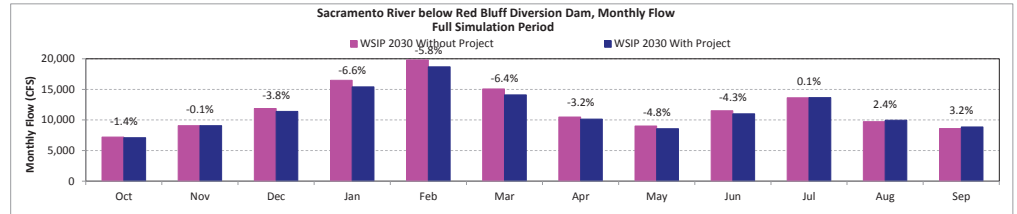


Table SW-13-a  
Sacramento River below Hamilton City, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	6,663	9,423	13,553	19,005	22,651	17,320	9,858	7,648	8,794	10,882	7,695	8,128
WSIP 2030 With Project	6,632	9,404	12,733	17,769	21,272	15,823	9,503	7,437	8,613	11,276	7,945	8,417
Difference	-31	-19	-820	-1,236	-1,379	-1,496	-356	-211	-181	394	250	289
Percent Difference <sup>2</sup>	-0.5%	-0.2%	-6.0%	-6.5%	-6.1%	-8.8%	-3.6%	-2.8%	-2.1%	3.6%	3.3%	3.5%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	7,701	11,985	14,285	35,138	40,923	29,043	15,127	8,662	7,975	10,633	7,688	12,676
WSIP 2030 With Project	7,677	11,956	13,192	33,989	39,537	27,744	14,528	8,571	8,070	10,798	7,720	12,674
Difference	-24	-28	-1,094	-1,149	-1,386	-1,299	-599	-91	96	165	32	-2
Percent Difference	-0.3%	-0.2%	-7.7%	-3.3%	-3.4%	-4.5%	-4.0%	-1.0%	1.2%	1.6%	0.4%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	6,819	11,736	12,164	22,753	25,159	20,103	9,227	8,055	9,205	11,213	8,125	9,349
WSIP 2030 With Project	6,880	11,649	11,288	20,703	23,545	18,803	8,670	7,750	8,341	12,309	8,044	8,984
Difference	61	-87	-876	-2,051	-1,614	-1,300	-557	-305	-864	1,096	-81	-365
Percent Difference	0.9%	-0.7%	-7.2%	-9.0%	-6.4%	-6.5%	-6.0%	-3.8%	-9.4%	9.8%	-1.0%	-3.9%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	5,695	7,562	13,985	11,155	14,475	11,044	8,510	7,608	9,201	11,626	7,965	5,928
WSIP 2030 With Project	6,145	7,859	14,101	9,645	13,453	9,203	8,083	7,294	8,751	12,525	7,939	6,577
Difference	450	297	117	-1,509	-1,022	-1,841	-427	-314	-451	899	-26	650
Percent Difference	7.9%	3.9%	0.8%	-13.5%	-7.1%	-16.7%	-5.0%	-4.1%	-4.9%	7.7%	-0.3%	11.0%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	7,349	8,777	17,290	8,094	12,034	11,042	6,442	6,633	9,119	10,312	7,484	4,910
WSIP 2030 With Project	6,937	8,585	16,300	7,178	10,213	9,109	6,452	6,421	9,127	10,598	8,401	5,584
Difference	-412	-192	-990	-916	-1,821	-1,934	9	-212	8	286	918	674
Percent Difference	-5.6%	-2.2%	-5.7%	-11.3%	-15.1%	-17.5%	0.1%	-3.2%	0.1%	2.8%	12.3%	13.7%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	4,801	5,268	7,822	7,314	7,814	7,375	5,978	6,543	9,078	10,773	7,178	4,843
WSIP 2030 With Project	4,489	5,119	6,531	6,670	6,767	6,341	5,946	6,322	9,132	10,371	7,716	5,364
Difference	-312	-149	-1,291	-644	-1,047	-1,034	-32	-221	54	-401	538	521
Percent Difference	-6.5%	-2.8%	-16.5%	-8.8%	-13.4%	-14.0%	-0.5%	-3.4%	0.6%	-3.7%	7.5%	10.8%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

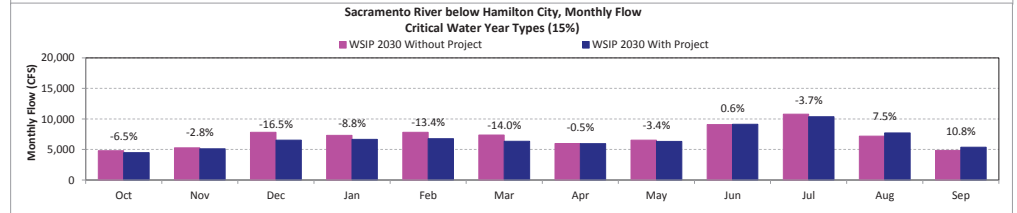
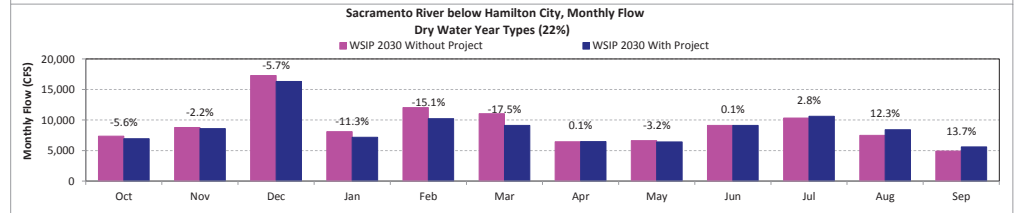
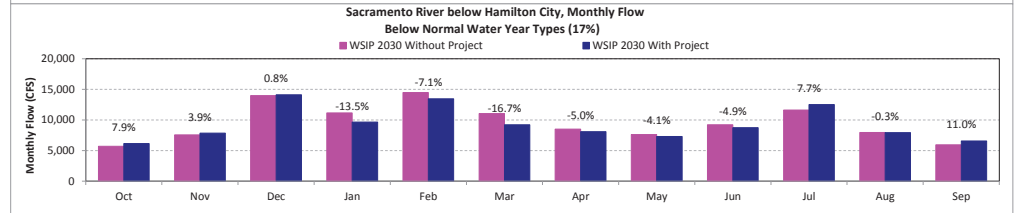
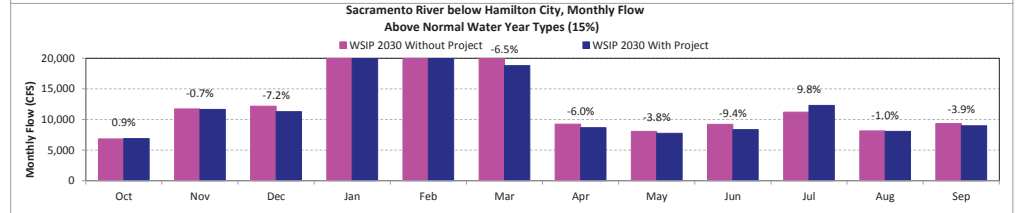
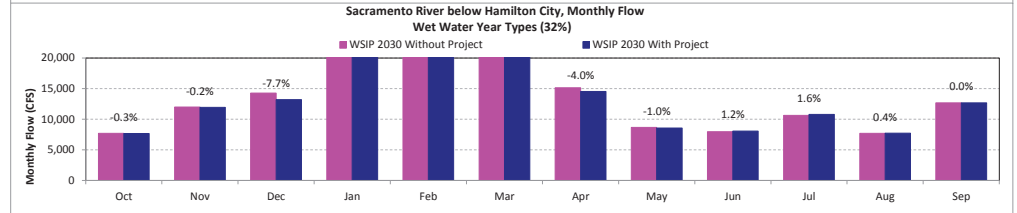
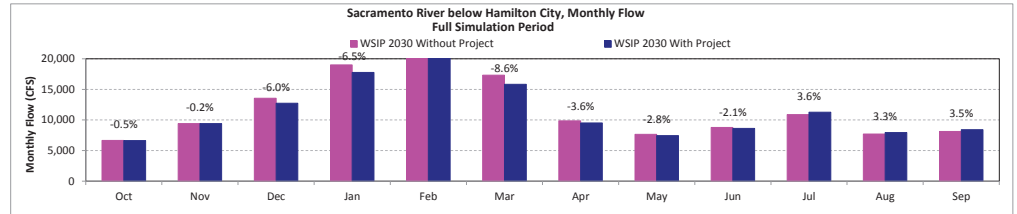


Table SW-14-a  
Sacramento River below Delevan Intake and Pipeline, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	6,342	9,413	15,403	22,885	27,392	20,418	11,312	7,348	7,982	9,688	6,910	8,324
WSIP 2030 With Project	6,818	9,581	14,263	20,966	25,424	18,632	10,993	7,202	8,577	10,922	7,694	9,295
Difference	476	168	-1,139	-1,919	-1,969	-1,786	-319	-145	595	1,234	785	971
Percent Difference <sup>2</sup>	7.5%	1.8%	-7.4%	-8.4%	-7.2%	-8.7%	-2.8%	-2.0%	7.5%	12.7%	11.4%	11.7%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	7,465	11,944	16,538	42,186	48,509	33,318	18,595	8,925	7,802	9,554	6,912	13,056
WSIP 2030 With Project	7,632	11,955	15,160	40,350	46,679	31,830	17,976	8,834	8,238	10,067	6,974	13,435
Difference	168	11	-1,378	-1,836	-1,830	-1,488	-619	-91	437	513	62	379
Percent Difference	2.2%	0.1%	-8.3%	-4.4%	-3.8%	-4.5%	-3.3%	-1.0%	5.6%	5.4%	0.9%	2.9%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	6,477	11,655	13,880	29,047	31,425	24,591	10,630	8,213	8,398	9,899	7,387	9,573
WSIP 2030 With Project	6,881	11,433	12,377	25,962	28,981	22,861	10,072	7,903	8,536	12,135	7,746	10,145
Difference	404	-222	-1,503	-3,085	-2,444	-1,730	-558	-310	138	2,236	359	573
Percent Difference	6.2%	-1.9%	-10.8%	-10.6%	-7.8%	-7.0%	-5.2%	-3.8%	1.6%	22.6%	4.9%	6.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	5,464	7,658	15,773	13,258	17,960	13,416	9,813	7,173	8,092	10,380	7,097	5,916
WSIP 2030 With Project	6,569	8,131	15,747	11,037	16,440	11,224	9,388	6,857	8,827	12,545	7,746	7,422
Difference	1,105	473	-26	-2,221	-1,520	-2,192	-425	-316	734	2,165	649	1,506
Percent Difference	20.2%	6.2%	-0.2%	-16.7%	-8.5%	-16.3%	-4.3%	-4.4%	9.1%	20.9%	9.1%	25.5%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	6,942	8,957	19,465	9,146	15,195	13,302	6,200	5,720	7,909	9,095	6,561	5,083
WSIP 2030 With Project	7,291	9,243	18,083	7,576	12,366	11,003	6,218	5,496	8,692	10,563	8,500	6,634
Difference	349	286	-1,382	-1,570	-2,829	-2,299	17	-224	783	1,468	1,939	1,551
Percent Difference	5.0%	3.2%	-7.1%	-17.2%	-18.6%	-17.3%	0.3%	-3.9%	9.9%	16.1%	29.6%	30.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	4,308	4,991	8,619	8,471	8,990	8,777	5,759	5,613	7,883	9,566	6,627	4,949
WSIP 2030 With Project	4,779	5,287	7,088	7,506	7,720	7,573	6,003	5,865	8,819	9,672	7,996	6,018
Difference	471	296	-1,531	-965	-1,271	-1,203	244	253	936	106	1,369	1,069
Percent Difference	10.9%	5.9%	-17.8%	-11.4%	-14.1%	-13.7%	4.2%	4.5%	11.9%	1.1%	20.7%	21.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

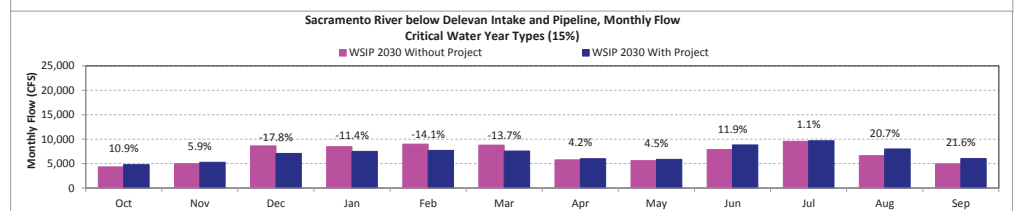
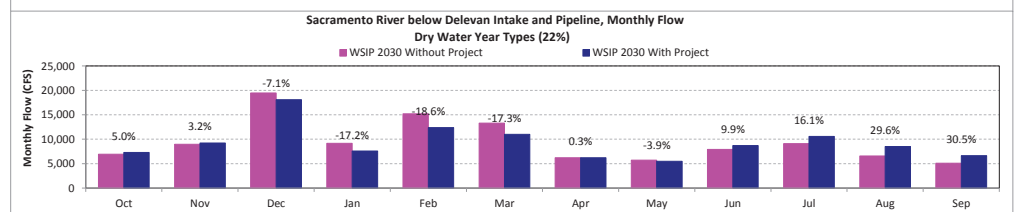
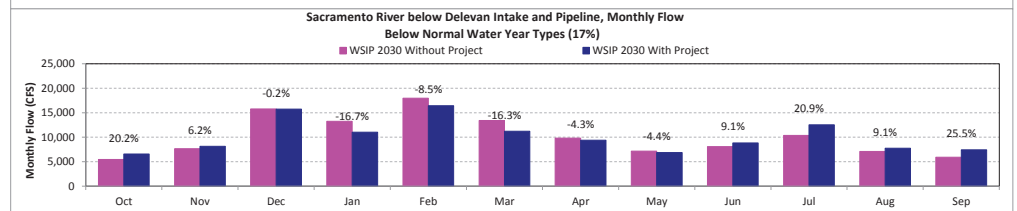
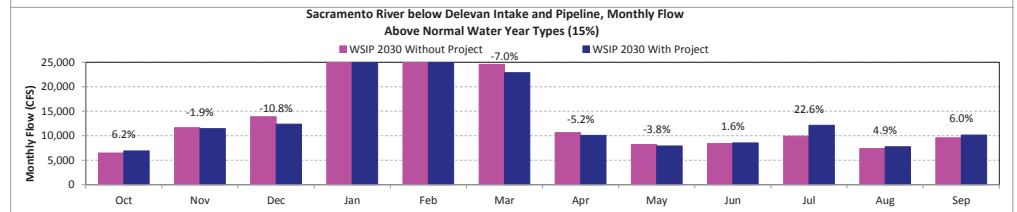
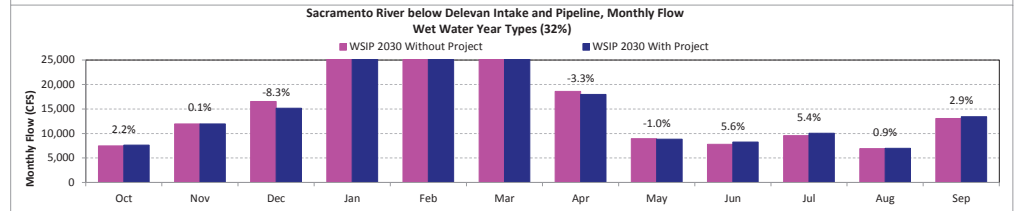
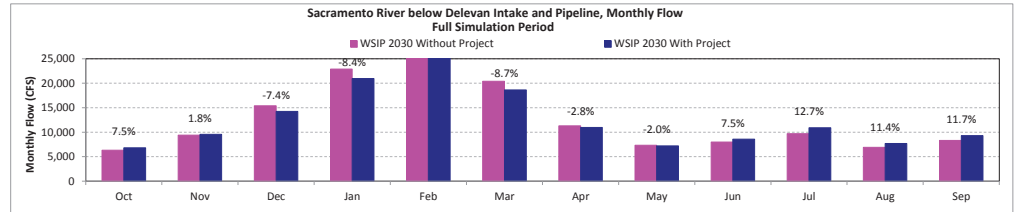


Table SW-15-a  
Sacramento River at Wilken Slough, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
Full Simulation Period <sup>1</sup>												
WSIP 2030 Without Project	6,027	8,861	11,770	14,192	15,784	14,348	8,420	5,955	5,986	7,594	5,327	8,033
WSIP 2030 With Project	6,510	9,085	11,122	13,130	14,773	13,116	8,233	5,816	6,579	8,807	6,085	9,000
Difference	483	224	-648	-1,062	-1,012	-1,232	-187	-139	593	1,213	758	967
Percent Difference <sup>2</sup>	8.0%	2.5%	-5.5%	-7.5%	-6.4%	-8.6%	-2.2%	-2.3%	9.9%	16.0%	14.2%	12.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	7,119	11,648	12,686	20,038	20,640	18,373	12,980	7,498	5,864	7,534	5,364	12,779
WSIP 2030 With Project	7,290	11,718	11,866	19,487	20,330	17,903	12,605	7,473	6,301	8,036	5,419	13,171
Difference	171	69	-821	-551	-310	-470	-375	-25	437	502	55	392
Percent Difference	2.4%	0.6%	-6.5%	-2.7%	-1.5%	-2.6%	-2.9%	-0.3%	7.5%	6.7%	1.0%	3.1%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	6,230	10,270	10,865	17,743	18,306	16,990	9,098	6,682	6,395	7,813	5,834	9,258
WSIP 2030 With Project	6,636	10,300	10,057	16,817	17,417	15,952	8,669	6,357	6,536	10,040	6,134	9,850
Difference	406	30	-808	-926	-889	-1,037	-429	-325	142	2,227	300	592
Percent Difference	6.5%	0.3%	-7.4%	-5.2%	-4.9%	-6.1%	-4.7%	-4.9%	2.2%	28.5%	5.1%	6.4%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	5,308	7,258	11,648	12,060	14,066	12,494	7,701	5,823	6,084	8,259	5,479	5,659
WSIP 2030 With Project	6,388	7,744	11,995	10,387	13,029	10,580	7,479	5,506	6,816	10,393	6,079	7,174
Difference	1,080	486	347	-1,673	-1,037	-1,913	-222	-316	732	2,134	599	1,516
Percent Difference	20.3%	6.7%	3.0%	-13.9%	-7.4%	-15.3%	-2.9%	-5.4%	12.0%	25.8%	10.9%	26.8%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	6,346	8,107	13,549	9,110	13,392	12,380	4,760	4,408	5,864	6,951	4,964	4,783
WSIP 2030 With Project	6,756	8,372	12,883	7,580	11,294	10,490	4,798	4,158	6,645	8,387	6,866	6,295
Difference	410	265	-666	-1,530	-2,098	-1,890	37	-250	781	1,436	1,902	1,512
Percent Difference	6.5%	3.3%	-4.9%	-16.8%	-15.7%	-15.3%	0.8%	-5.7%	13.3%	20.7%	38.3%	31.6%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	4,142	4,921	8,571	8,259	8,770	8,573	4,138	4,263	5,855	7,417	5,012	4,617
WSIP 2030 With Project	4,607	5,233	7,054	7,487	7,658	7,399	4,337	4,470	6,779	7,494	6,394	5,654
Difference	465	311	-1,517	-771	-1,112	-1,174	198	207	924	77	1,382	1,037
Percent Difference	11.2%	6.3%	-17.7%	-9.3%	-12.7%	-13.7%	4.8%	4.9%	15.8%	1.0%	27.6%	22.5%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average





Table SW-16-a  
Sacramento River at Verona, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	9,383	12,497	19,612	28,453	34,769	29,869	18,065	11,090	10,606	16,048	11,953	14,508
WSIP 2030 With Project	9,919	12,747	18,826	27,095	33,595	28,536	17,865	10,905	10,944	16,930	12,526	15,590
Difference	536	251	-787	-1,358	-1,174	-1,334	-200	-185	338	882	573	1,082
Percent Difference <sup>2</sup>	5.7%	2.0%	-4.0%	-4.8%	-3.4%	-4.5%	-1.1%	-1.7%	3.2%	5.5%	4.8%	7.5%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	11,300	15,803	22,421	47,449	54,273	44,584	29,750	15,027	11,400	17,200	13,306	22,571
WSIP 2030 With Project	11,471	15,866	21,172	46,531	53,765	43,794	29,307	14,985	11,832	17,226	13,300	22,941
Difference	171	63	-1,250	-918	-509	-790	-443	-42	432	26	-6	370
Percent Difference	1.5%	0.4%	-5.6%	-1.9%	-0.9%	-1.8%	-1.5%	-0.3%	3.8%	0.2%	0.0%	1.6%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	10,683	15,053	18,268	35,751	42,412	39,417	18,767	12,401	11,250	17,972	14,419	17,199
WSIP 2030 With Project	11,020	15,100	17,406	34,134	41,165	38,428	18,432	12,086	11,176	19,320	14,403	17,750
Difference	337	46	-862	-1,617	-1,247	-990	-334	-315	-74	1,348	-17	550
Percent Difference	3.2%	0.3%	-4.7%	-4.5%	-2.9%	-2.5%	-1.8%	-2.5%	-0.7%	7.5%	-0.1%	3.2%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	8,549	10,516	18,991	19,683	25,886	23,612	14,921	10,066	10,892	18,147	13,619	10,509
WSIP 2030 With Project	9,751	11,053	19,374	17,691	25,017	21,699	14,681	9,715	10,912	19,269	14,234	12,171
Difference	1,203	538	383	-1,992	-869	-1,914	-240	-351	19	1,122	615	1,662
Percent Difference	14.1%	5.1%	2.0%	-10.1%	-3.4%	-8.1%	-1.6%	-3.5%	0.2%	6.2%	4.5%	15.8%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	9,343	12,062	23,156	14,382	22,774	19,252	9,591	8,252	10,075	14,213	9,619	9,748
WSIP 2030 With Project	9,935	12,397	22,383	12,903	20,401	17,227	9,622	8,019	10,635	15,900	11,042	11,501
Difference	592	335	-773	-1,479	-2,372	-2,025	31	-233	560	1,687	1,423	1,753
Percent Difference	6.3%	2.8%	-3.3%	-10.3%	-10.4%	-10.5%	0.3%	-2.8%	5.6%	11.9%	14.8%	18.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	5,323	6,438	11,260	12,768	15,070	12,686	8,769	6,813	8,612	11,198	7,420	7,031
WSIP 2030 With Project	5,800	6,764	9,838	11,812	13,746	11,619	8,961	6,760	9,319	11,984	8,596	8,412
Difference	477	326	-1,422	-956	-1,324	-1,067	192	-53	707	786	1,176	1,381
Percent Difference	9.0%	5.1%	-12.6%	-7.5%	-8.8%	-8.4%	2.2%	-0.8%	8.2%	7.0%	15.8%	19.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

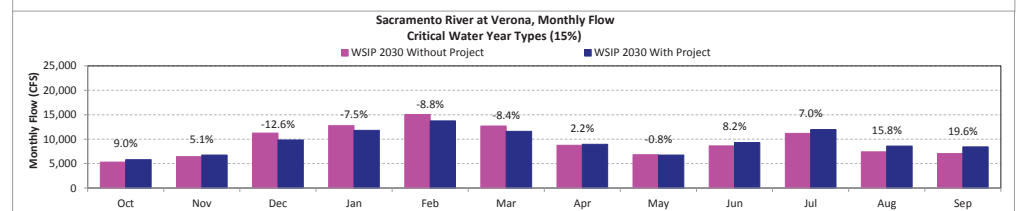
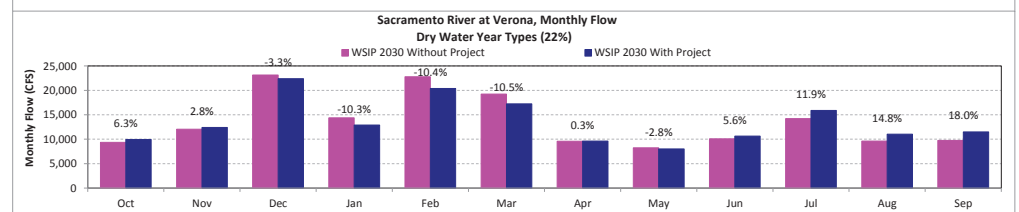
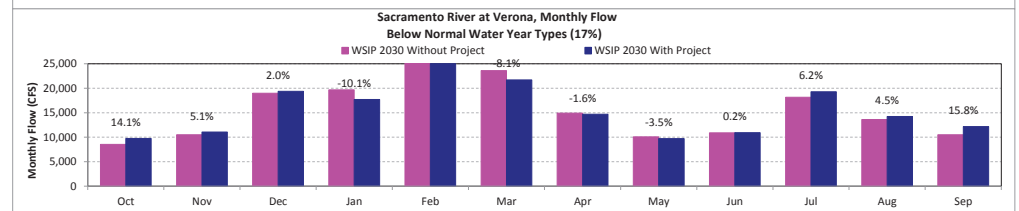
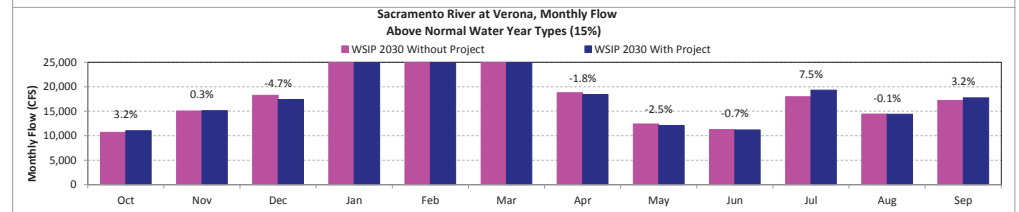
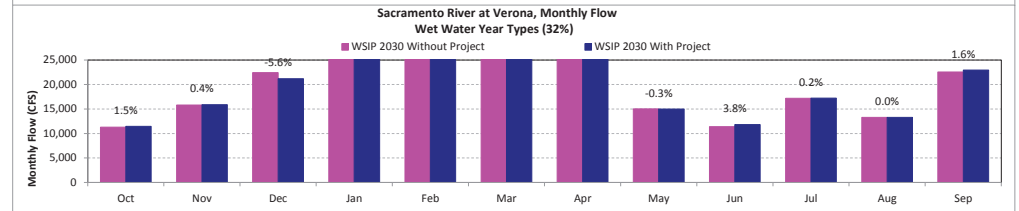
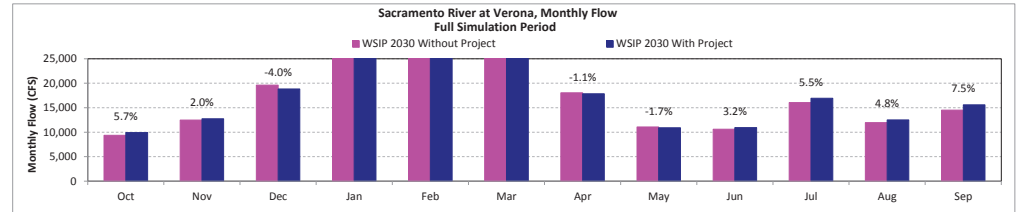


Table SW-17-a  
Sacramento River at Freeport, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	11,381	15,801	24,220	33,907	41,521	35,166	22,047	13,469	12,840	19,825	13,884	16,590
WSIP 2030 With Project	12,052	16,175	23,446	32,650	40,359	33,876	21,877	13,347	13,186	20,243	14,514	17,721
Difference	672	374	-774	-1,257	-1,161	-1,290	-170	-123	345	418	629	1,132
Percent Difference <sup>2</sup>	5.9%	2.4%	-3.2%	-3.7%	-2.8%	-3.7%	-0.8%	-0.9%	2.7%	2.1%	4.5%	6.8%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	13,580	20,172	27,667	55,944	63,741	51,966	36,623	18,448	13,867	21,398	15,700	26,164
WSIP 2030 With Project	14,014	20,214	26,379	55,128	63,310	51,219	36,182	18,437	14,354	21,321	15,736	26,378
Difference	434	42	-1,287	-817	-431	-746	-441	-12	487	-77	37	213
Percent Difference	3.2%	0.2%	-4.7%	-1.5%	-0.7%	-1.4%	-1.2%	-0.1%	3.5%	-0.4%	0.2%	0.8%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	12,753	18,016	22,793	43,085	50,731	45,715	22,296	14,774	13,299	22,694	16,258	19,132
WSIP 2030 With Project	13,079	18,348	21,899	41,569	49,515	44,749	21,963	14,513	13,317	23,279	16,342	19,765
Difference	326	332	-895	-1,516	-1,216	-966	-333	-261	18	585	84	632
Percent Difference	2.6%	1.8%	-3.9%	-3.5%	-2.4%	-2.1%	-1.5%	-1.8%	0.1%	2.6%	0.5%	3.3%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	10,424	13,040	23,085	23,704	32,376	29,058	18,111	11,973	13,025	22,804	15,384	12,098
WSIP 2030 With Project	11,726	13,709	23,579	21,742	31,472	27,187	17,934	11,672	13,243	22,919	16,171	13,914
Difference	1,301	669	494	-1,962	-904	-1,871	-178	-301	218	115	787	1,816
Percent Difference	12.5%	5.1%	2.1%	-8.3%	-2.8%	-6.4%	-1.0%	-2.5%	1.7%	0.5%	5.1%	15.0%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	11,566	16,255	29,074	17,683	27,683	23,024	11,994	10,355	12,726	17,409	11,644	11,033
WSIP 2030 With Project	12,327	16,892	28,354	16,399	25,224	20,992	12,065	10,261	13,028	18,475	13,028	12,993
Difference	761	637	-720	-1,284	-2,459	-2,033	71	-94	302	1,066	1,385	1,959
Percent Difference	6.6%	3.9%	-2.5%	-7.3%	-8.9%	-8.8%	0.6%	-0.9%	2.4%	6.1%	11.9%	17.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	6,533	7,788	13,600	14,905	17,422	14,459	10,411	8,064	10,134	12,677	8,593	7,871
WSIP 2030 With Project	7,035	8,126	12,149	14,021	16,160	13,525	10,660	8,064	10,750	13,528	9,771	9,343
Difference	501	338	-1,451	-884	-1,262	-934	249	0	616	851	1,178	1,472
Percent Difference	7.7%	4.3%	-10.7%	-5.9%	-7.2%	-6.5%	2.4%	0.0%	6.1%	6.7%	13.7%	18.7%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

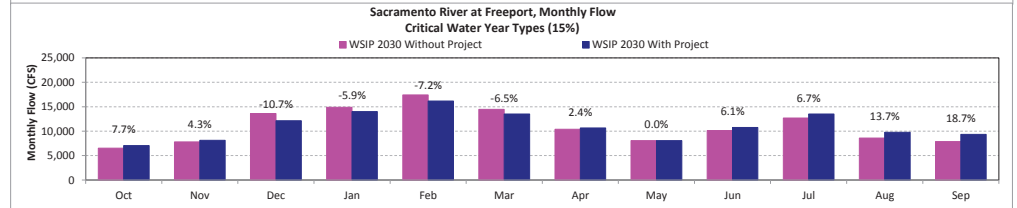
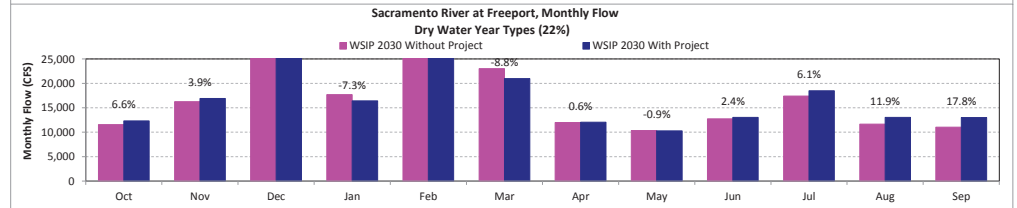
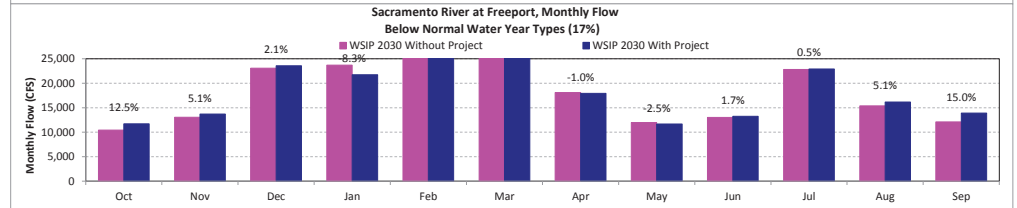
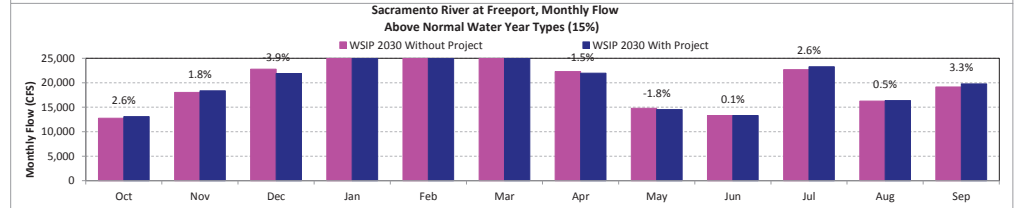
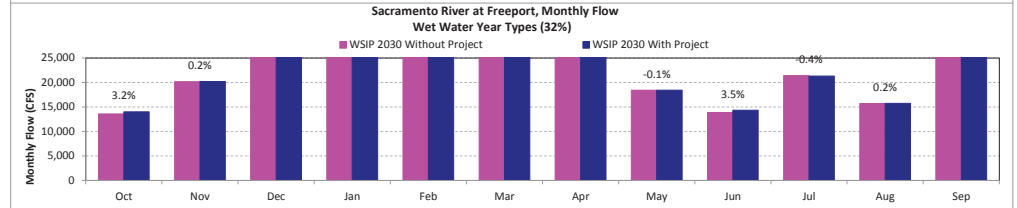
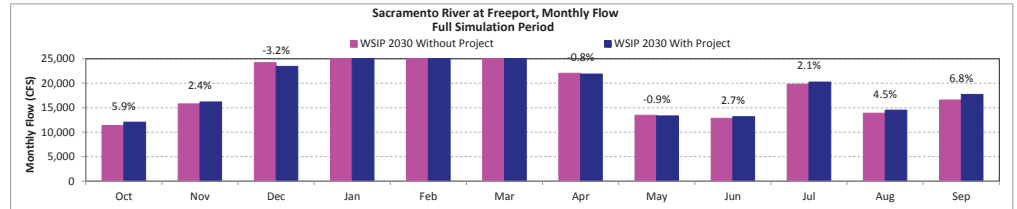


Table SW-18-a  
Lake Oroville, End of Month Storage  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	1,369	1,420	1,647	1,973	2,285	2,518	2,730	2,760	2,565	2,049	1,713	1,469
WSIP 2030 With Project	1,419	1,468	1,688	2,010	2,311	2,544	2,755	2,786	2,604	2,106	1,780	1,528
Difference	50	48	41	37	26	25	25	26	39	57	67	59
Percent Difference <sup>2</sup>	3.7%	3.4%	2.5%	1.9%	1.1%	1.0%	0.9%	0.9%	1.5%	2.8%	3.9%	4.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,727	1,709	1,892	2,672	2,865	2,952	3,256	3,383	3,243	2,724	2,362	1,938
WSIP 2030 With Project	1,762	1,749	1,929	2,710	2,866	2,952	3,256	3,381	3,242	2,753	2,397	1,974
Difference	35	39	37	38	1	0	0	-1	0	29	35	36
Percent Difference	2.1%	2.3%	2.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	1.5%	1.8%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,548	1,566	1,651	2,283	2,760	2,945	3,250	3,313	3,129	2,501	2,045	1,697
WSIP 2030 With Project	1,629	1,634	1,718	2,306	2,784	2,951	3,257	3,318	3,146	2,559	2,124	1,778
Difference	81	68	68	23	23	7	6	6	17	59	78	81
Percent Difference	5.2%	4.4%	4.1%	1.0%	0.8%	0.2%	0.2%	0.2%	0.6%	2.3%	3.8%	4.8%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,215	1,230	1,505	1,729	2,123	2,512	2,757	2,764	2,510	1,878	1,441	1,323
WSIP 2030 With Project	1,306	1,313	1,573	1,761	2,152	2,543	2,785	2,792	2,580	2,001	1,562	1,435
Difference	91	83	68	32	29	31	28	28	69	122	121	112
Percent Difference	7.5%	6.7%	4.5%	1.8%	1.4%	1.2%	1.0%	1.0%	2.8%	6.5%	8.4%	8.4%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,201	1,395	1,762	1,454	1,851	2,213	2,339	2,294	2,048	1,563	1,309	1,146
WSIP 2030 With Project	1,225	1,422	1,769	1,487	1,884	2,254	2,380	2,332	2,097	1,603	1,374	1,195
Difference	25	27	7	33	33	41	41	38	50	40	65	49
Percent Difference	2.1%	1.9%	0.4%	2.3%	1.8%	1.8%	1.7%	1.7%	2.4%	2.6%	5.0%	4.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	890	973	1,181	1,246	1,412	1,605	1,598	1,527	1,355	1,079	952	901
WSIP 2030 With Project	916	999	1,209	1,305	1,477	1,673	1,666	1,611	1,443	1,123	1,000	924
Difference	26	26	29	59	65	69	68	83	88	44	48	23
Percent Difference	2.9%	2.6%	2.4%	4.8%	4.6%	4.3%	4.3%	5.5%	6.5%	4.0%	5.0%	2.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-19-a  
Lake Oroville, End of Month Elevation  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	708	714	738	772	802	823	838	840	824	779	745	719
WSIP 2030 With Project	714	720	743	776	805	826	841	842	827	785	753	727
Difference	6	6	5	4	3	3	3	3	4	6	8	7
Percent Difference <sup>2</sup>	0.9%	0.8%	0.7%	0.5%	0.4%	0.3%	0.3%	0.3%	0.5%	0.8%	1.1%	1.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	750	748	765	839	854	860	881	889	880	843	813	773
WSIP 2030 With Project	755	753	769	842	854	860	881	889	880	845	817	777
Difference	4	5	5	3	0	0	0	0	0	2	4	4
Percent Difference	0.6%	0.6%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	732	732	741	804	846	859	880	885	872	827	787	750
WSIP 2030 With Project	742	741	749	807	848	860	881	885	873	832	795	759
Difference	10	8	8	3	2	0	0	0	1	5	8	9
Percent Difference	1.3%	1.2%	1.1%	0.3%	0.2%	0.1%	0.0%	0.0%	0.1%	0.6%	1.0%	1.3%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	693	695	723	753	792	827	846	847	828	769	720	706
WSIP 2030 With Project	704	705	731	756	794	830	848	849	833	782	735	720
Difference	11	10	8	4	3	3	2	2	5	13	15	14
Percent Difference	1.6%	1.4%	1.1%	0.5%	0.4%	0.3%	0.2%	0.2%	0.6%	1.6%	2.1%	1.9%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	687	709	747	720	764	800	810	806	783	733	703	683
WSIP 2030 With Project	689	711	748	725	768	804	814	810	788	737	710	688
Difference	2	2	1	4	4	5	4	4	4	4	7	5
Percent Difference	0.3%	0.3%	0.1%	0.6%	0.5%	0.6%	0.5%	0.5%	0.5%	0.5%	1.0%	0.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	645	659	687	694	714	736	735	726	706	671	652	646
WSIP 2030 With Project	651	663	691	702	722	744	743	737	718	679	662	652
Difference	6	5	4	8	8	8	9	10	12	8	9	6
Percent Difference	0.9%	0.7%	0.6%	1.1%	1.1%	1.1%	1.2%	1.4%	1.6%	1.2%	1.5%	0.9%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

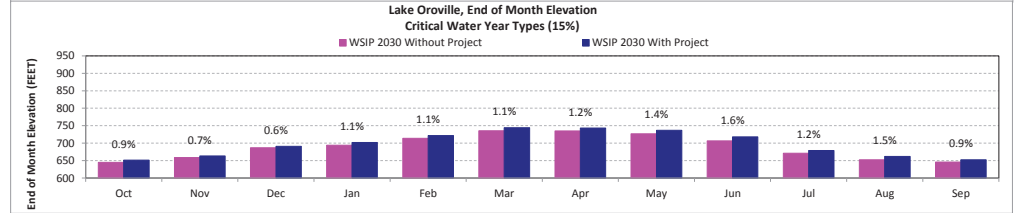
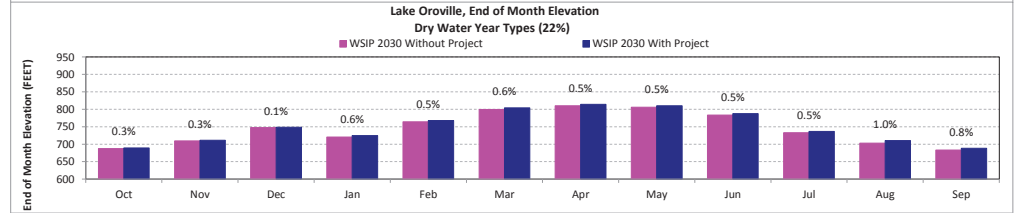
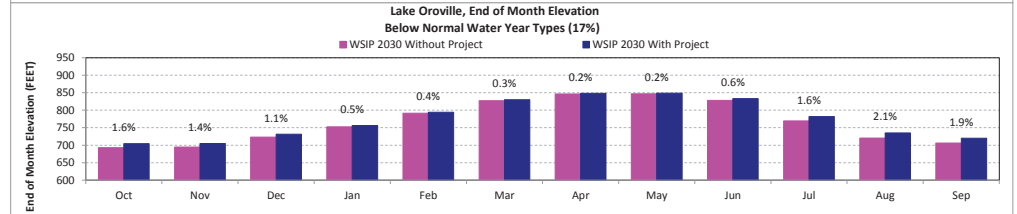
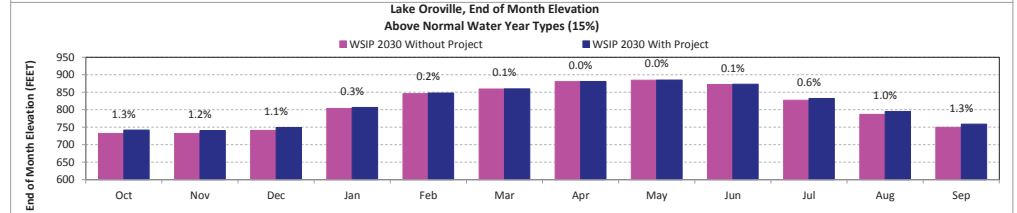
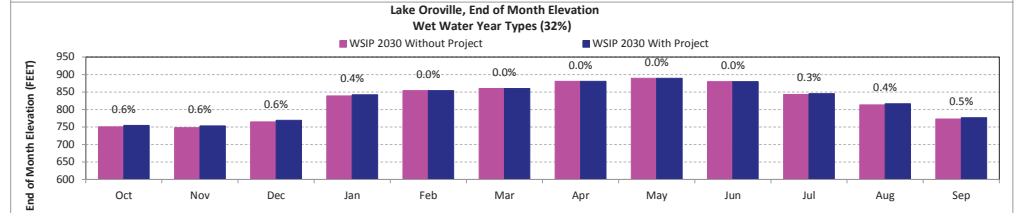
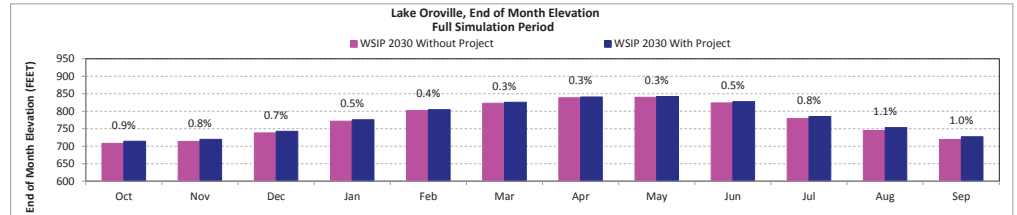


Table SW-20-a  
Lake Oroville, End of Month Area  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Area (ACRE)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	7,990	8,192	9,063	10,306	11,465	12,313	13,029	13,118	12,432	10,586	9,322	8,389
WSIP 2030 With Project	8,201	8,391	9,232	10,451	11,567	12,411	13,122	13,217	12,577	10,802	9,594	8,633
Difference	210	198	168	145	101	98	93	99	145	216	272	245
Percent Difference <sup>2</sup>	2.6%	2.4%	1.9%	1.4%	0.9%	0.8%	0.7%	0.8%	1.2%	2.0%	2.9%	2.9%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	9,433	9,364	10,019	12,895	13,560	13,849	14,864	15,286	14,820	13,073	11,805	10,245
WSIP 2030 With Project	9,579	9,524	10,171	13,027	13,563	13,849	14,863	15,282	14,818	13,175	11,935	10,386
Difference	146	160	152	132	3	0	-1	-5	-2	102	130	140
Percent Difference	1.5%	1.7%	1.5%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	1.1%	1.4%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	8,758	8,793	9,116	11,489	13,203	13,827	14,845	15,053	14,439	12,323	10,696	9,358
WSIP 2030 With Project	9,088	9,078	9,395	11,584	13,284	13,848	14,866	15,071	14,497	12,533	10,990	9,684
Difference	331	286	279	94	82	22	21	19	57	209	293	326
Percent Difference	3.8%	3.2%	3.1%	0.8%	0.6%	0.2%	0.1%	0.1%	0.4%	1.7%	2.7%	3.5%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	7,407	7,467	8,527	9,472	10,943	12,354	13,198	13,219	12,358	10,063	8,335	7,856
WSIP 2030 With Project	7,786	7,808	8,800	9,597	11,051	12,465	13,293	13,311	12,593	10,522	8,837	8,318
Difference	379	341	273	125	108	111	95	92	235	459	502	461
Percent Difference	5.1%	4.6%	3.2%	1.3%	1.0%	0.9%	0.7%	0.7%	1.9%	4.6%	6.0%	5.9%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	7,292	8,063	9,466	8,365	9,911	11,266	11,709	11,544	10,649	8,801	7,782	7,106
WSIP 2030 With Project	7,387	8,156	9,495	8,504	10,048	11,425	11,862	11,688	10,822	8,946	8,040	7,305
Difference	94	93	29	139	136	159	153	144	174	145	258	198
Percent Difference	1.3%	1.2%	0.3%	1.7%	1.4%	1.4%	1.3%	1.2%	1.6%	1.6%	3.3%	2.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	5,974	6,351	7,242	7,501	8,175	8,937	8,909	8,624	7,931	6,789	6,228	6,014
WSIP 2030 With Project	6,114	6,480	7,371	7,757	8,446	9,215	9,191	8,968	8,306	6,997	6,467	6,148
Difference	140	129	129	256	270	278	281	344	375	208	238	135
Percent Difference	2.3%	2.0%	1.8%	3.4%	3.3%	3.1%	3.2%	4.0%	4.7%	3.1%	3.8%	2.2%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

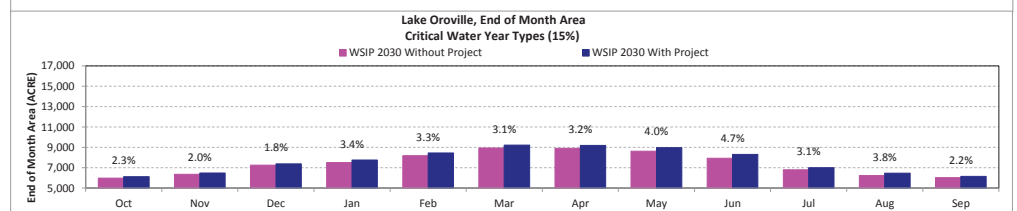
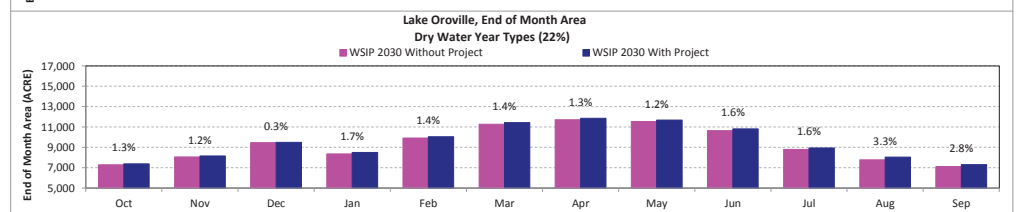
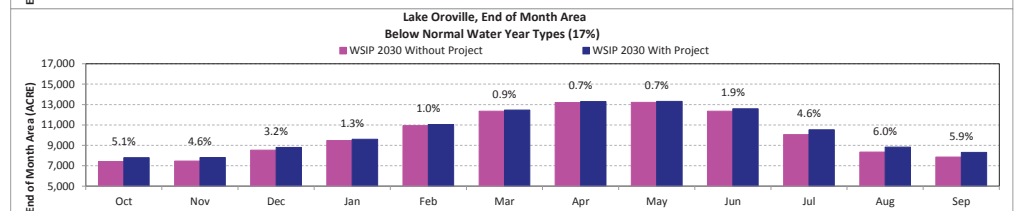
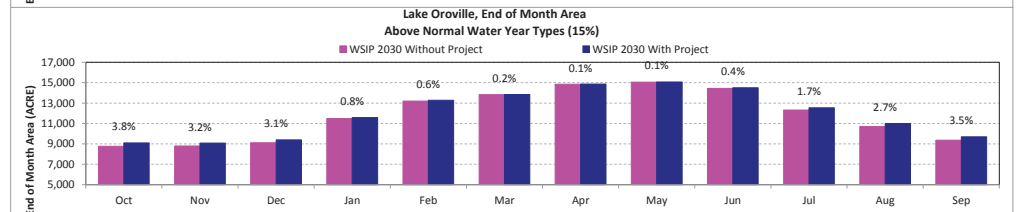
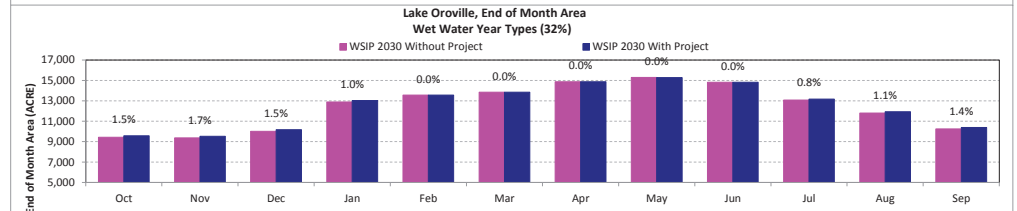
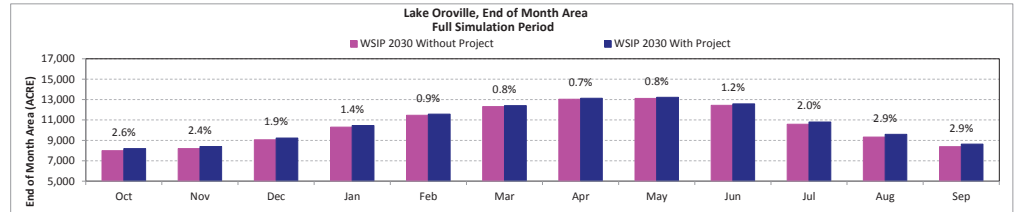


Table SW-21-a  
Feather River at Thermalito Low Flow Channel, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	800	800	800	800	800	800	700	700	700	700	700	773
WSIP 2030 With Project	800	800	800	800	800	800	700	700	700	700	700	773
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

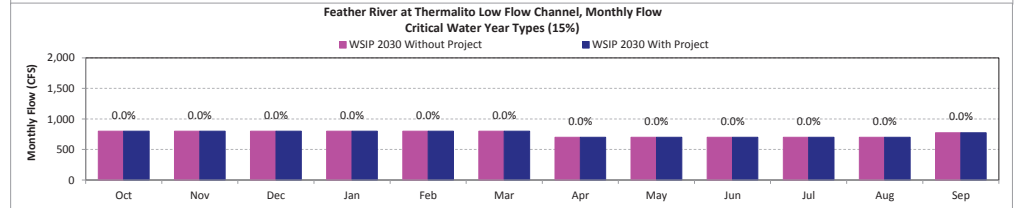
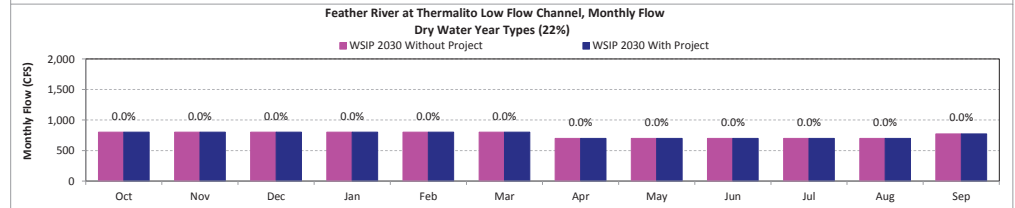
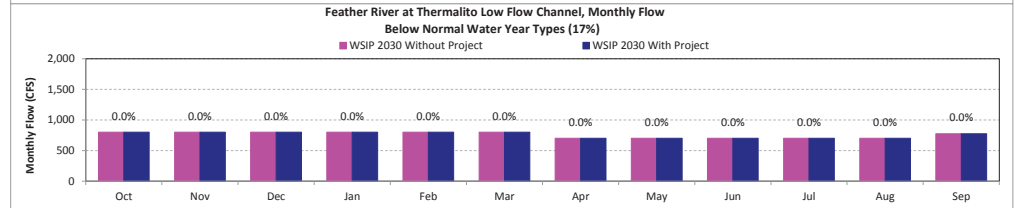
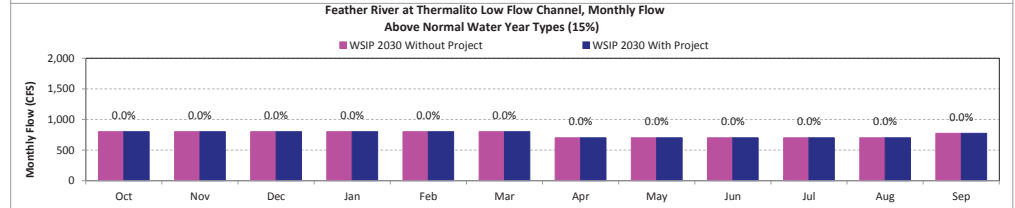
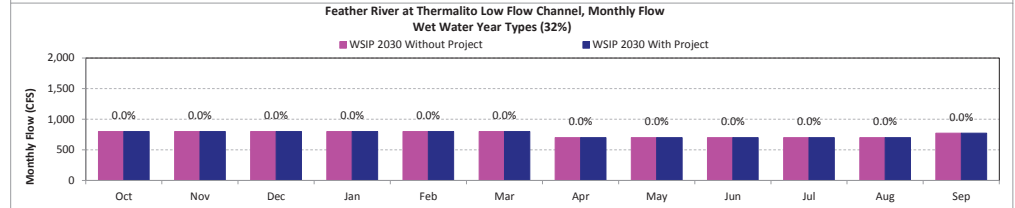
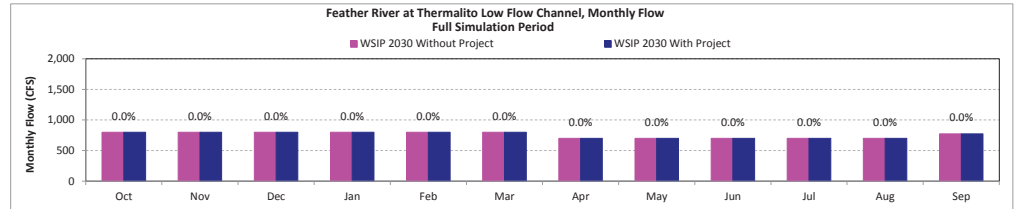


Table SW-22-a  
Feather River below Thermalito, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	2,945	1,986	3,101	4,598	7,321	7,112	2,613	1,865	2,779	7,452	5,138	4,407
WSIP 2030 With Project	3,035	2,015	3,206	4,663	7,518	7,109	2,617	1,828	2,514	7,165	4,947	4,507
Difference	90	28	105	65	197	-3	3	-38	-265	-287	-190	100
Percent Difference <sup>2</sup>	3.0%	1.4%	3.4%	1.4%	2.7%	0.0%	0.1%	-2.0%	-9.5%	-3.8%	-3.7%	2.3%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	3,908	2,681	3,765	11,561	17,554	14,599	5,472	2,719	2,745	8,076	5,914	7,511
WSIP 2030 With Project	3,908	2,614	3,808	11,589	18,213	14,614	5,466	2,728	2,716	7,580	5,804	7,476
Difference	0	-67	42	29	659	15	-6	9	-29	-496	-110	-35
Percent Difference	0.0%	-2.5%	1.1%	0.2%	3.8%	0.1%	-0.1%	0.3%	-1.1%	-6.1%	-1.9%	-0.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	3,991	2,542	3,874	2,215	6,709	10,363	1,421	1,628	2,798	9,274	7,158	5,631
WSIP 2030 With Project	3,922	2,749	3,945	2,601	6,707	10,634	1,419	1,626	2,587	8,589	6,827	5,574
Difference	-69	207	72	386	-2	271	-2	-1	-211	-684	-331	-57
Percent Difference	-1.7%	8.1%	1.9%	17.4%	0.0%	2.6%	-0.2%	-0.1%	-7.5%	-7.4%	-4.6%	-1.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	2,712	1,853	1,928	1,477	2,316	2,489	1,378	1,311	3,160	8,795	6,558	2,542
WSIP 2030 With Project	2,839	1,883	2,100	1,477	2,365	2,452	1,424	1,293	2,444	7,918	6,542	2,688
Difference	127	30	172	0	49	-37	46	-18	-717	-877	-16	146
Percent Difference	4.7%	1.6%	8.9%	0.0%	2.1%	-1.5%	3.3%	-1.4%	-22.7%	-10.0%	-0.2%	5.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	2,152	1,343	3,888	1,388	1,547	2,123	1,539	1,669	2,951	6,661	3,529	2,787
WSIP 2030 With Project	2,523	1,415	4,147	1,388	1,536	2,003	1,527	1,685	2,727	6,869	3,063	2,985
Difference	371	72	260	0	-11	-121	-12	17	-224	208	-466	199
Percent Difference	17.3%	5.4%	6.7%	0.0%	-0.7%	-5.7%	-0.8%	1.0%	-7.6%	3.1%	-13.2%	7.1%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	1,280	1,031	1,560	1,175	1,405	1,465	1,033	1,373	2,061	3,481	1,631	1,517
WSIP 2030 With Project	1,288	1,019	1,527	1,175	1,325	1,358	1,023	1,102	1,838	4,205	1,537	1,859
Difference	8	-12	-32	0	-80	-107	-10	-271	-223	724	-95	342
Percent Difference	0.6%	-1.1%	-2.1%	0.0%	-5.7%	-7.3%	-1.0%	-19.7%	-10.8%	20.8%	-5.8%	22.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

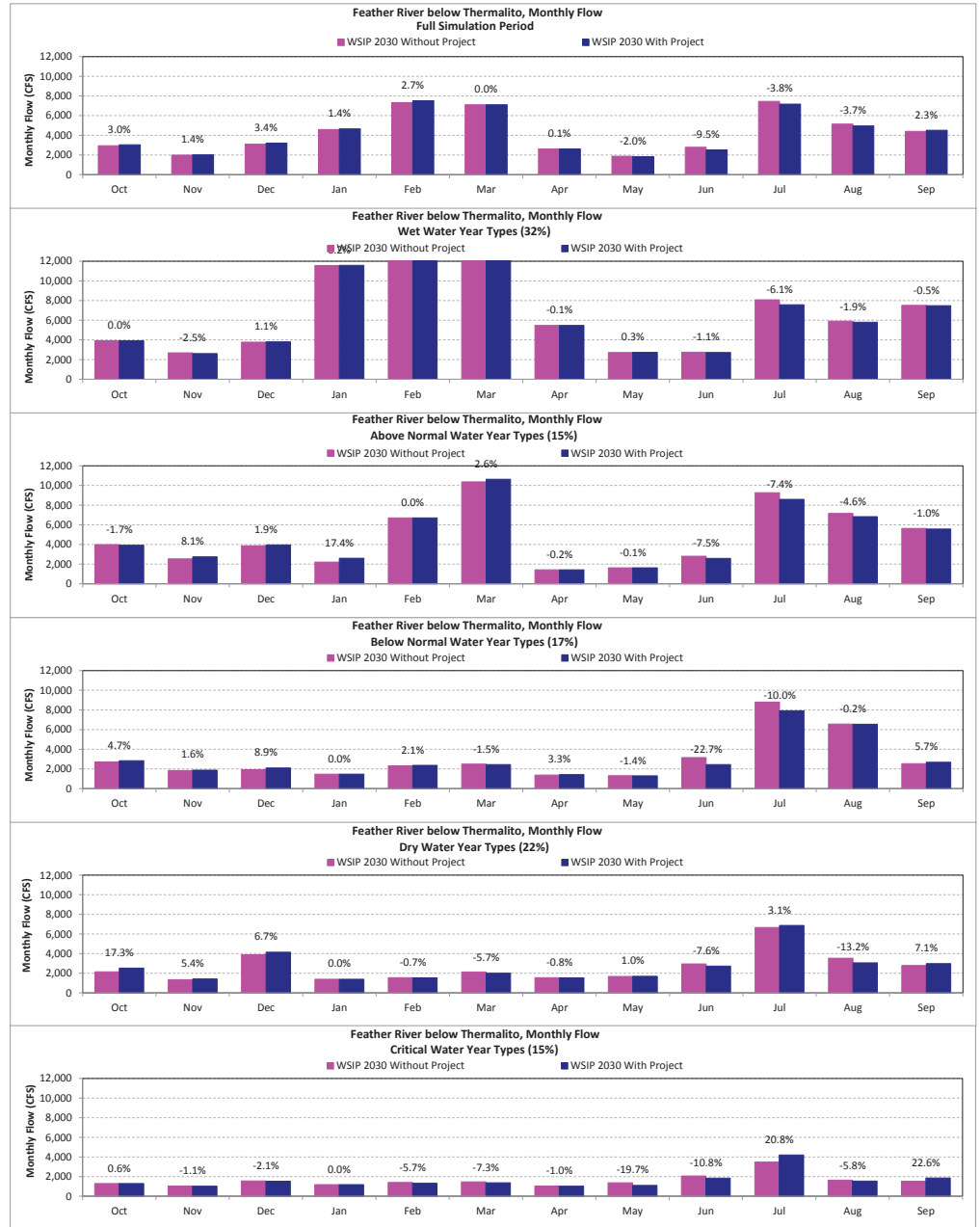


Table SW-23-a  
Feather River at Mouth, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	3,463	2,962	6,097	12,539	16,361	15,102	7,890	4,438	3,887	7,713	5,959	6,127
WSIP 2030 With Project	3,554	2,990	6,204	12,600	16,553	15,101	7,897	4,402	3,625	7,431	5,768	6,239
Difference	91	28	108	61	192	-1	6	-35	-262	-282	-192	112
Percent Difference <sup>2</sup>	2.6%	0.9%	1.8%	0.5%	1.2%	0.0%	0.1%	-0.8%	-6.7%	-3.7%	-3.2%	1.8%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	4,312	3,627	7,948	27,310	34,435	27,089	14,539	6,720	4,762	8,784	7,139	9,542
WSIP 2030 With Project	4,312	3,561	7,991	27,339	35,094	27,103	14,537	6,730	4,735	8,288	7,039	9,520
Difference	1	-67	43	29	659	14	-3	10	-28	-496	-99	-22
Percent Difference	0.0%	-1.8%	0.5%	0.1%	1.9%	0.1%	0.0%	0.2%	-0.6%	-5.6%	-1.4%	-0.2%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	4,472	3,806	5,764	10,743	18,451	22,081	8,045	4,701	4,079	9,503	8,010	7,565
WSIP 2030 With Project	4,403	4,013	5,834	11,130	18,448	22,352	8,043	4,701	3,870	8,819	7,678	7,511
Difference	-69	207	71	387	-3	271	-2	0	-209	-685	-332	-54
Percent Difference	-1.5%	5.4%	1.2%	3.6%	0.0%	1.2%	0.0%	0.0%	-5.1%	-7.2%	-4.1%	-0.7%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	3,212	2,437	4,565	5,960	7,819	9,831	5,298	3,602	4,070	9,060	7,476	4,396
WSIP 2030 With Project	3,336	2,468	4,738	5,962	7,871	9,795	5,347	3,586	3,353	8,186	7,457	4,543
Difference	124	31	173	3	53	-36	49	-15	-717	-874	-19	147
Percent Difference	3.9%	1.3%	3.8%	0.0%	0.7%	-0.4%	0.9%	-0.4%	-17.6%	-9.7%	-0.2%	3.3%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	3,203	3,012	8,318	4,400	5,231	5,665	3,780	3,283	3,455	6,552	4,023	4,559
WSIP 2030 With Project	3,577	3,077	8,581	4,391	5,193	5,537	3,772	3,303	3,234	6,782	3,554	4,799
Difference	374	65	263	-10	-38	-129	-8	20	-221	230	-469	240
Percent Difference	11.7%	2.2%	3.2%	-0.2%	-0.7%	-2.3%	-0.2%	0.6%	-6.4%	3.5%	-11.6%	5.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	1,389	1,412	1,783	3,735	3,556	3,198	3,035	2,145	2,189	3,331	1,885	2,114
WSIP 2030 With Project	1,402	1,404	1,761	3,712	3,474	3,113	3,029	1,878	1,976	4,052	1,765	2,452
Difference	13	-8	-22	-23	-82	-85	-6	-267	-214	721	-120	338
Percent Difference	0.9%	-0.5%	-1.2%	-0.6%	-2.3%	-2.7%	-0.2%	-12.4%	-9.8%	21.6%	-6.4%	16.0%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

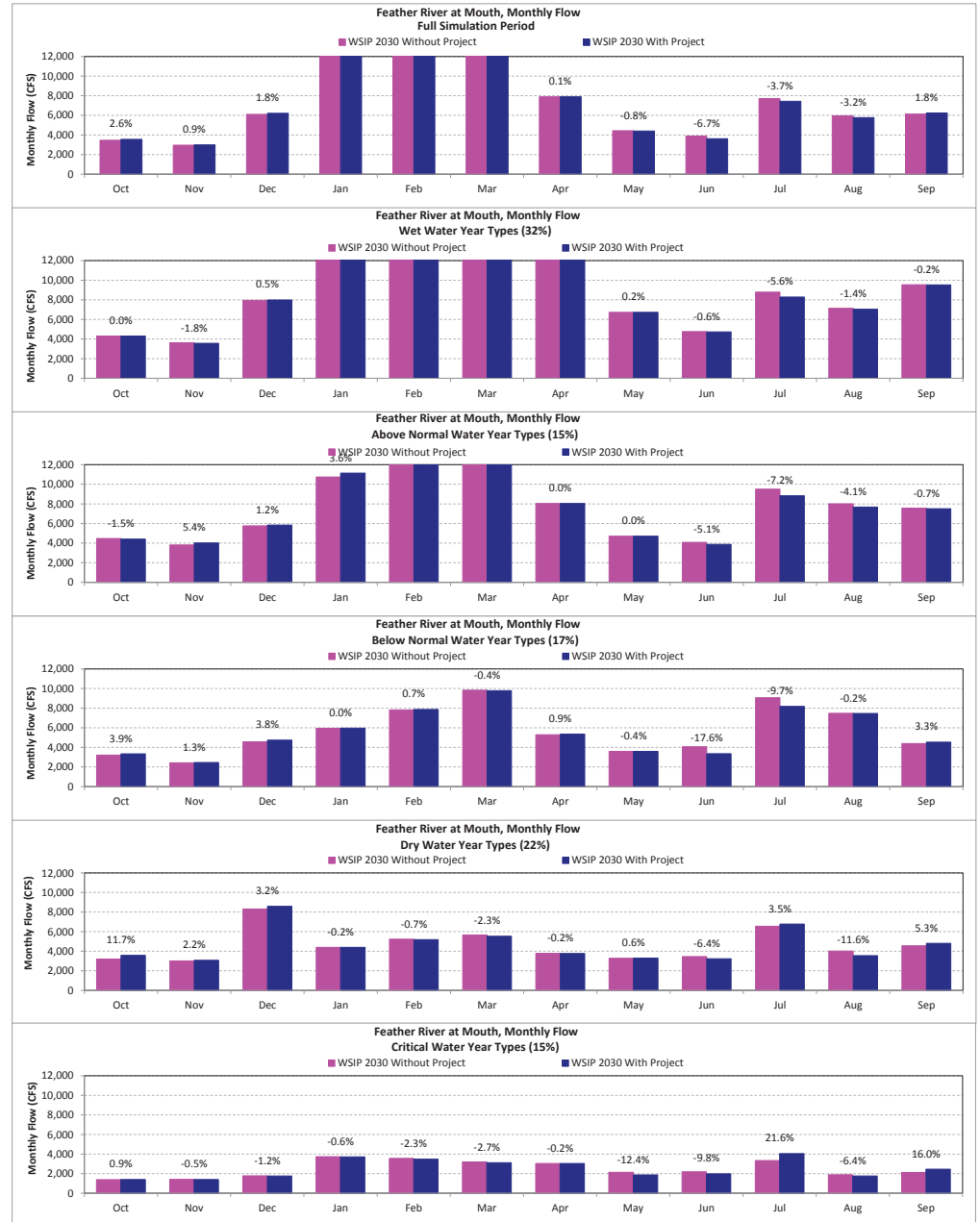




Table SW-24-a  
Folsom Lake, End of Month Storage  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	392	399	446	475	496	598	713	769	701	523	478	428
WSIP 2030 With Project	404	404	451	476	499	599	713	764	696	547	499	447
Difference	12	5	5	1	3	2	0	-4	-5	24	21	19
Percent Difference <sup>2</sup>	3.1%	1.3%	1.2%	0.3%	0.6%	0.3%	0.0%	-0.5%	-0.7%	4.6%	4.4%	4.5%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	454	431	476	520	508	626	767	898	853	678	625	508
WSIP 2030 With Project	448	428	475	520	508	626	767	896	848	679	624	516
Difference	-5	-4	-1	0	0	0	0	-2	-5	1	-1	9
Percent Difference	-1.2%	-0.8%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.6%	0.2%	-0.2%	1.7%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	414	428	462	531	548	643	778	844	778	544	508	459
WSIP 2030 With Project	444	441	478	530	548	643	778	841	769	580	539	487
Difference	30	13	16	-1	4	0	0	-3	-9	37	31	28
Percent Difference	7.3%	3.0%	3.5%	-0.3%	0.0%	0.0%	0.0%	-0.4%	-1.2%	6.8%	6.1%	6.2%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	398	404	461	500	536	627	775	796	718	482	448	437
WSIP 2030 With Project	420	419	471	500	540	627	772	790	700	526	482	464
Difference	22	15	9	-1	4	1	-2	-6	-17	44	35	27
Percent Difference	5.6%	3.8%	2.0%	-0.2%	0.7%	0.2%	-0.3%	-0.7%	-2.4%	9.1%	7.7%	6.1%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	360	400	403	419	479	594	689	699	596	438	381	371
WSIP 2030 With Project	388	411	412	417	482	597	690	692	604	483	430	410
Difference	28	11	8	-2	3	4	1	-8	8	44	50	38
Percent Difference	7.7%	2.8%	2.1%	-0.6%	0.6%	0.6%	0.2%	-1.1%	1.3%	10.1%	13.1%	10.4%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	275	293	402	361	384	457	484	476	422	353	316	293
WSIP 2030 With Project	269	286	398	375	395	461	484	473	425	355	316	289
Difference	-6	-7	-4	15	11	4	0	-3	3	2	0	-4
Percent Difference	-2.1%	-2.3%	-0.9%	4.0%	2.9%	0.9%	0.1%	-0.6%	0.7%	0.6%	0.0%	-1.4%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-25-a  
Folsom Lake, End of Month Elevation  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Elevation (FEET)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	399	401	407	411	414	427	439	445	437	416	410	404
WSIP 2030 With Project	401	401	408	411	414	427	439	444	437	419	413	407
Difference	2	1	1	0	0	0	0	-1	-1	3	3	3
Percent Difference <sup>2</sup>	0.4%	0.2%	0.2%	0.0%	0.1%	0.0%	0.0%	-0.1%	-0.2%	0.7%	0.7%	0.7%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	408	406	412	417	416	431	445	458	454	435	429	415
WSIP 2030 With Project	408	405	412	417	416	431	445	458	453	435	429	416
Difference	-1	0	0	0	0	0	0	0	-1	0	0	1
Percent Difference	-0.2%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.2%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	403	405	410	419	421	433	447	453	447	420	416	410
WSIP 2030 With Project	408	407	412	419	421	433	447	453	446	424	419	413
Difference	4	2	2	0	0	0	0	0	-1	4	4	4
Percent Difference	1.0%	0.4%	0.5%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.2%	1.0%	0.9%	0.9%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	401	402	409	415	419	431	446	448	440	412	408	407
WSIP 2030 With Project	404	404	410	415	420	431	446	448	438	418	413	410
Difference	3	2	1	0	0	0	0	-1	-2	6	5	4
Percent Difference	0.8%	0.6%	0.3%	0.0%	0.1%	0.0%	-0.1%	-0.1%	-0.4%	1.4%	1.2%	0.9%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	395	400	401	403	412	427	437	438	427	406	397	396
WSIP 2030 With Project	399	402	402	403	412	427	437	437	427	412	405	402
Difference	4	2	1	-1	0	0	0	-1	1	6	8	6
Percent Difference	1.1%	0.5%	0.3%	-0.1%	0.1%	0.1%	0.0%	-0.2%	0.2%	1.5%	2.0%	1.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	381	383	401	395	398	408	412	411	404	393	388	384
WSIP 2030 With Project	380	382	400	397	400	408	411	409	403	394	388	383
Difference	-1	-1	-1	2	1	0	-1	-1	-1	0	0	-1
Percent Difference	-0.3%	-0.3%	-0.1%	0.5%	0.4%	0.1%	-0.2%	-0.3%	-0.2%	0.0%	0.0%	-0.2%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



Table SW-26-a  
Folsom Lake, End of Month Area  
Long-term Average and Average by Water Year Type

Analysis Period	End of Month Area (ACRE)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	6,614	6,705	7,185	7,472	7,692	8,646	9,475	9,797	9,320	7,834	7,425	6,980
WSIP 2030 With Project	6,744	6,760	7,236	7,482	7,719	8,658	9,469	9,758	9,281	8,056	7,641	7,173
Difference	130	56	51	10	27	12	-6	-40	-39	222	216	193
Percent Difference <sup>2</sup>	2.0%	0.8%	0.7%	0.1%	0.4%	0.1%	-0.1%	-0.4%	-0.4%	2.8%	2.9%	2.8%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	7,262	7,090	7,518	7,950	7,840	8,930	9,911	10,695	10,415	9,156	8,779	7,772
WSIP 2030 With Project	7,213	7,055	7,510	7,950	7,840	8,930	9,911	10,680	10,378	9,160	8,769	7,833
Difference	-49	-36	-8	0	0	0	0	-15	-37	3	-10	62
Percent Difference	-0.7%	-0.5%	-0.1%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.4%	0.0%	-0.1%	0.8%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	6,905	7,031	7,373	8,054	8,212	9,087	10,001	10,396	10,001	8,119	7,812	7,378
WSIP 2030 With Project	7,208	7,162	7,523	8,038	8,212	9,087	10,001	10,376	9,936	8,428	8,075	7,641
Difference	303	130	150	-16	0	0	0	-20	-65	310	263	263
Percent Difference	4.4%	1.9%	2.0%	-0.2%	0.0%	0.0%	0.0%	-0.2%	-0.7%	3.8%	3.4%	3.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	6,748	6,809	7,335	7,744	8,092	8,927	9,982	10,102	9,582	7,529	7,233	7,146
WSIP 2030 With Project	6,981	6,975	7,431	7,738	8,124	8,939	9,965	10,063	9,449	7,956	7,583	7,418
Difference	233	167	96	-5	32	13	-17	-40	-133	427	350	273
Percent Difference	3.5%	2.4%	1.3%	-0.1%	0.4%	0.1%	-0.2%	-0.4%	-1.4%	5.7%	4.8%	3.8%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	6,243	6,667	6,730	6,888	7,537	8,628	9,324	9,378	8,606	7,093	6,450	6,382
WSIP 2030 With Project	6,567	6,801	6,827	6,847	7,564	8,659	9,333	9,314	8,670	7,538	7,006	6,819
Difference	324	133	98	-41	27	31	9	-63	65	444	555	437
Percent Difference	5.2%	2.0%	1.5%	-0.6%	0.4%	0.4%	0.1%	-0.7%	0.8%	6.3%	8.6%	6.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	5,277	5,477	6,698	6,290	6,503	7,241	7,527	7,454	6,941	6,213	5,786	5,495
WSIP 2030 With Project	5,202	5,386	6,648	6,435	6,606	7,267	7,498	7,376	6,915	6,219	5,782	5,455
Difference	-75	-90	-50	145	103	25	-29	-78	-26	6	-4	-41
Percent Difference	-1.4%	-1.6%	-0.7%	2.3%	1.6%	0.3%	-0.4%	-1.0%	-0.4%	0.1%	-0.1%	-0.7%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

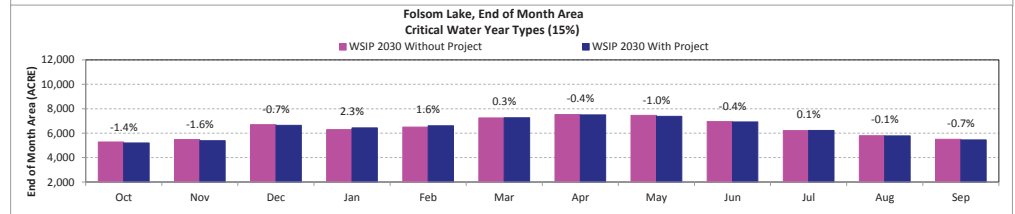
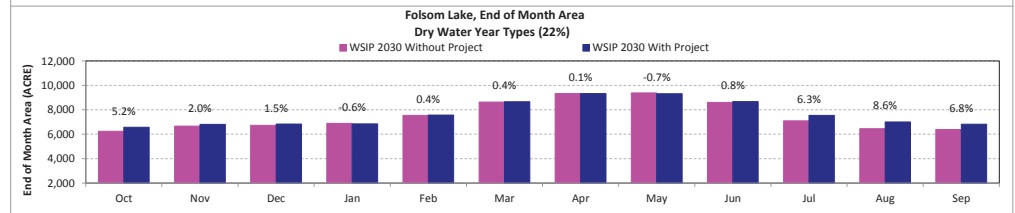
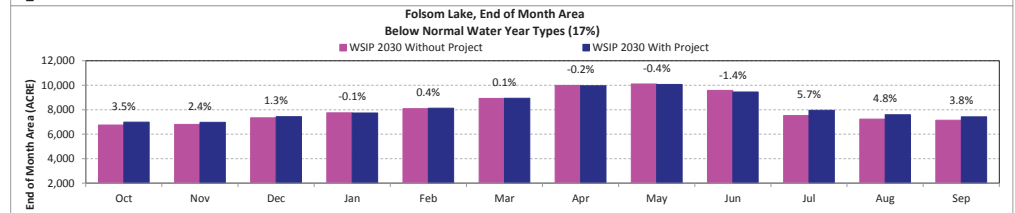
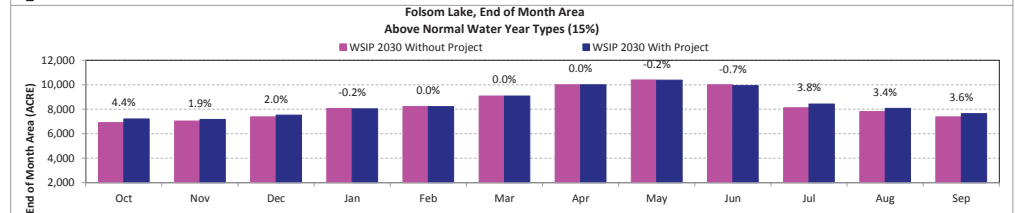
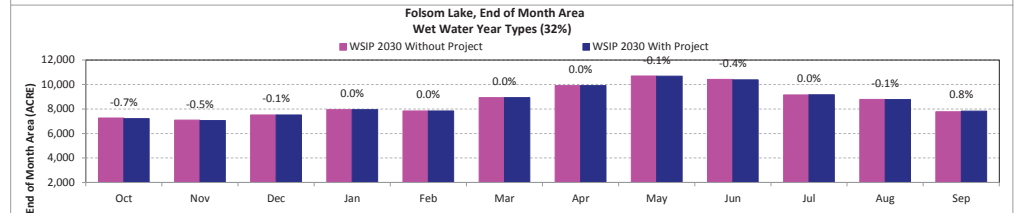
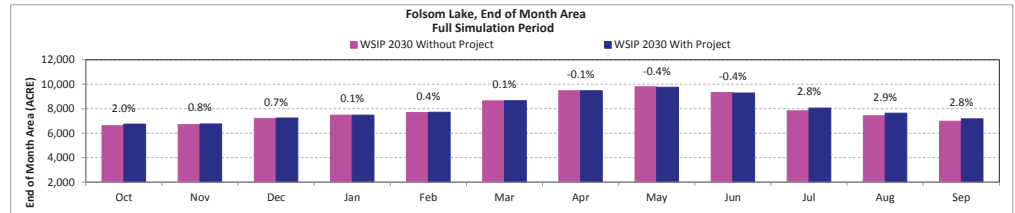


Table SW-27-a  
American River below Nimbus Reservoir, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	1,524	2,495	4,038	6,122	7,443	5,203	3,262	1,906	1,757	3,394	1,528	1,814
WSIP 2030 With Project	1,639	2,609	4,038	6,186	7,412	5,226	3,291	1,970	1,767	2,931	1,573	1,847
Difference	114	114	0	64	-31	23	30	64	9	-463	45	34
Percent Difference <sup>2</sup>	7.5%	4.6%	0.0%	1.0%	-0.4%	0.4%	0.9%	3.3%	0.5%	-13.6%	3.0%	1.9%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,790	3,479	4,792	12,905	13,091	8,133	5,995	3,054	1,857	3,698	1,891	3,178
WSIP 2030 With Project	2,018	3,451	4,744	12,913	13,091	8,133	5,995	3,085	1,915	3,590	1,930	3,014
Difference	227	-28	-49	8	0	0	0	31	57	-108	39	-164
Percent Difference	12.7%	-0.8%	-1.0%	0.1%	0.0%	0.0%	0.0%	1.0%	3.1%	-2.9%	2.1%	-5.2%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,638	2,294	3,458	6,988	9,155	7,059	3,045	1,770	1,627	4,429	1,534	1,789
WSIP 2030 With Project	1,591	2,584	3,410	7,051	9,132	7,058	3,044	1,824	1,719	3,682	1,629	1,835
Difference	-47	290	-49	64	-24	-1	-1	54	92	-747	95	47
Percent Difference	-2.9%	12.7%	-1.4%	0.9%	-0.3%	0.0%	0.0%	3.1%	5.7%	-16.9%	6.2%	2.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,431	1,697	2,949	2,793	5,986	4,792	2,531	1,510	1,758	4,297	1,394	1,206
WSIP 2030 With Project	1,506	1,816	3,048	2,814	5,904	4,827	2,596	1,561	1,957	3,291	1,539	1,337
Difference	74	119	99	21	-82	35	66	52	200	-1,006	145	131
Percent Difference	5.2%	7.0%	3.4%	0.7%	-1.4%	0.7%	2.6%	3.4%	11.4%	-23.4%	10.4%	10.8%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,563	3,122	6,604	2,090	3,422	2,714	1,534	1,319	2,096	2,764	1,527	1,063
WSIP 2030 With Project	1,734	3,404	6,648	2,281	3,328	2,700	1,573	1,461	1,840	2,152	1,436	1,249
Difference	170	282	45	191	-95	-14	39	142	-256	-612	-91	186
Percent Difference	10.9%	9.0%	0.7%	9.1%	-2.8%	-0.5%	2.6%	10.8%	-12.2%	-22.1%	-6.0%	17.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	936	943	1,169	1,216	1,300	1,143	1,124	996	1,227	1,286	958	858
WSIP 2030 With Project	957	947	1,117	1,290	1,442	1,270	1,182	1,050	1,137	1,338	1,009	950
Difference	21	4	-52	74	53	127	58	55	-90	52	51	93
Percent Difference	2.3%	0.4%	-4.5%	6.1%	3.8%	11.1%	5.1%	5.5%	-7.4%	4.1%	5.3%	10.8%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

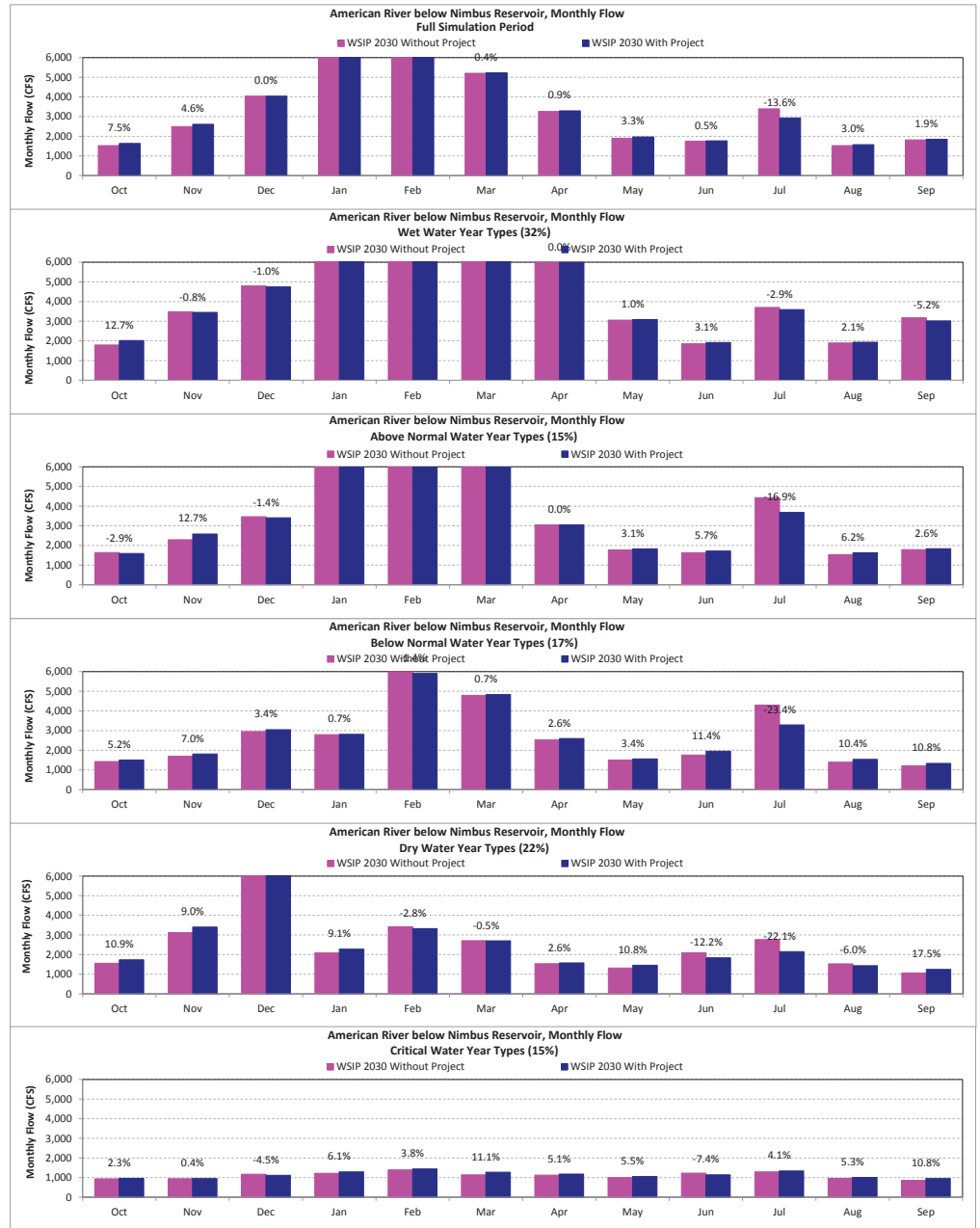


Table SW-28-a  
American River at Watt Avenue, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	1,462	2,433	3,969	6,040	7,335	5,093	3,169	1,833	1,692	3,331	1,451	1,752
WSIP 2030 With Project	1,575	2,546	3,968	6,104	7,303	5,117	3,198	1,896	1,700	2,869	1,500	1,784
Difference	113	113	-1	64	-32	23	29	63	8	-463	49	33
Percent Difference <sup>2</sup>	7.8%	4.6%	0.0%	1.1%	-0.4%	0.5%	0.9%	3.4%	0.5%	-13.9%	3.4%	1.9%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,715	3,414	4,715	12,784	12,920	7,975	5,873	2,955	1,781	3,635	1,811	3,112
WSIP 2030 With Project	1,944	3,384	4,666	12,920	12,920	7,975	5,873	2,985	1,838	3,526	1,851	2,947
Difference	229	-30	-48	8	0	0	0	31	57	-109	40	-164
Percent Difference	13.3%	-0.9%	-1.0%	0.1%	0.0%	0.0%	0.0%	1.0%	3.2%	-3.0%	2.2%	-5.3%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,576	2,230	3,391	6,918	9,042	6,938	2,942	1,703	1,565	4,367	1,447	1,726
WSIP 2030 With Project	1,528	2,521	3,340	6,982	9,018	6,937	2,941	1,757	1,657	3,619	1,549	1,772
Difference	-47	291	-51	64	-25	-1	-1	54	92	-748	101	46
Percent Difference	-3.0%	13.0%	-1.5%	0.9%	-0.3%	0.0%	0.0%	3.2%	5.9%	-17.1%	7.0%	2.6%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,374	1,635	2,887	2,725	5,908	4,696	2,441	1,444	1,695	4,234	1,309	1,145
WSIP 2030 With Project	1,447	1,753	2,985	2,747	5,826	4,732	2,506	1,494	1,894	3,226	1,463	1,274
Difference	73	118	98	22	-82	36	65	50	199	-1,008	154	129
Percent Difference	5.3%	7.2%	3.4%	0.8%	-1.4%	0.8%	2.7%	3.5%	11.7%	-23.8%	11.8%	11.2%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,508	3,060	6,530	2,028	3,350	2,636	1,462	1,259	2,035	2,699	1,455	1,001
WSIP 2030 With Project	1,676	3,339	6,571	2,219	3,254	2,623	1,501	1,400	1,778	2,089	1,369	1,188
Difference	168	280	42	191	-97	-13	40	141	-257	-610	-86	186
Percent Difference	11.1%	9.1%	0.6%	9.4%	-2.9%	-0.5%	2.7%	11.2%	-12.6%	-22.6%	-5.9%	18.6%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	885	888	1,115	1,156	1,327	1,085	1,067	941	1,172	1,229	900	803
WSIP 2030 With Project	904	892	1,063	1,229	1,379	1,211	1,124	993	1,080	1,282	950	894
Difference	19	4	-52	73	52	127	56	53	-92	53	50	91
Percent Difference	2.2%	0.5%	-4.7%	6.3%	3.9%	11.7%	5.3%	5.6%	-7.8%	4.3%	5.5%	11.3%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

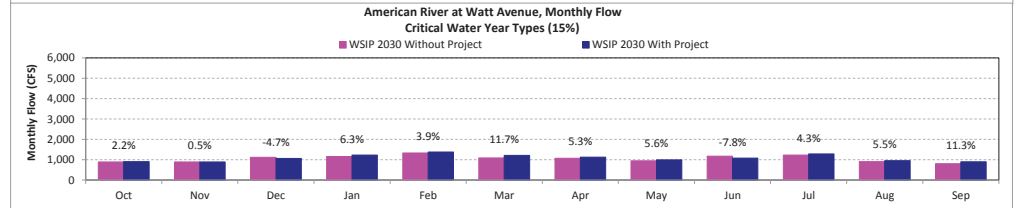
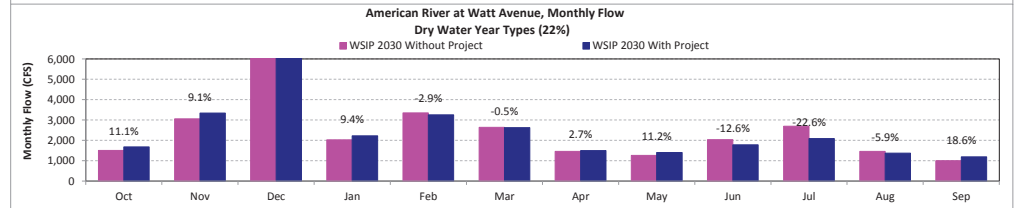
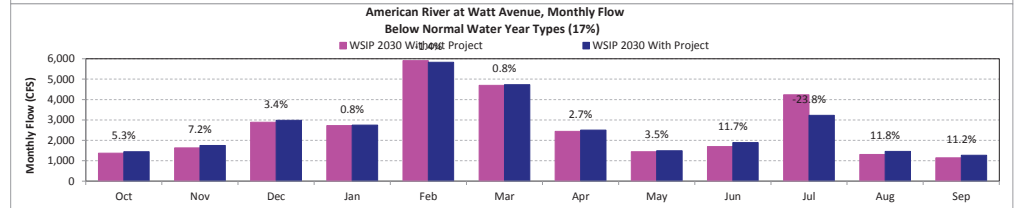
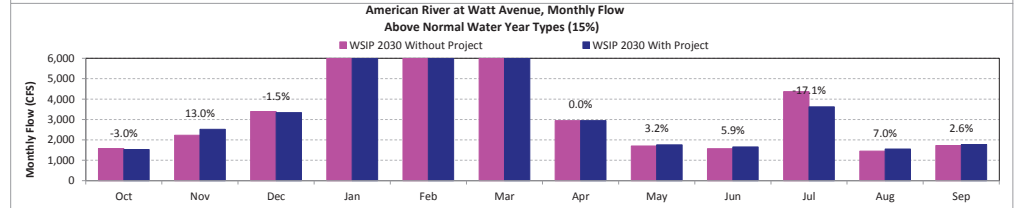
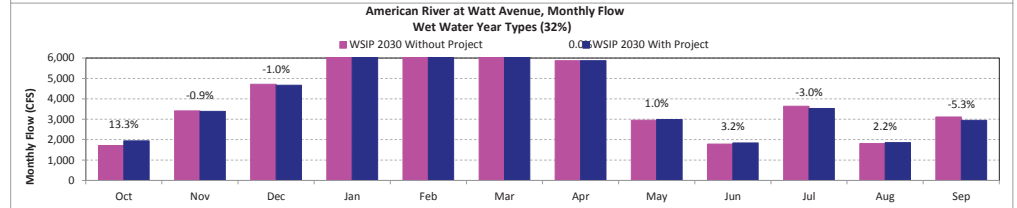
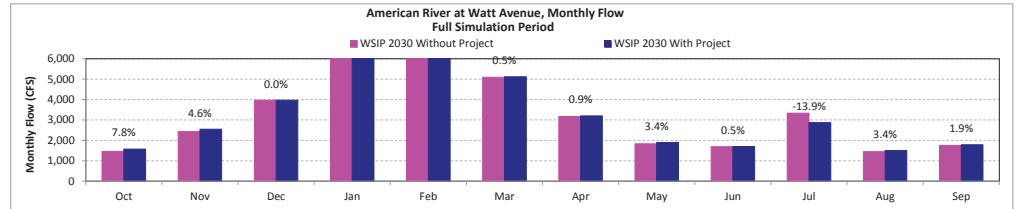


Table SW-29-a  
American River at H Street, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
Full Simulation Period <sup>1</sup>												
WSIP 2030 Without Project	1,358	2,343	3,897	5,957	7,231	4,982	2,998	1,668	1,492	2,866	1,239	1,551
WSIP 2030 With Project	1,467	2,455	3,896	6,020	7,199	5,006	3,027	1,731	1,518	2,405	1,292	1,587
Difference	110	112	-1	63	-32	23	29	63	26	-461	53	36
Percent Difference <sup>2</sup>	8.1%	4.8%	0.0%	1.1%	-0.4%	0.5%	1.0%	3.8%	1.8%	-16.1%	4.3%	2.3%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,587	3,300	4,630	12,711	12,804	7,861	5,653	2,741	1,602	3,164	1,565	2,783
WSIP 2030 With Project	1,803	3,270	4,584	12,719	12,804	7,861	5,653	2,772	1,659	2,958	1,581	2,630
Difference	216	-30	-45	8	0	0	0	31	57	-206	16	-153
Percent Difference	13.6%	-0.9%	-1.0%	0.1%	0.0%	0.0%	0.0%	1.1%	3.6%	-6.5%	1.0%	-5.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,470	2,126	3,323	6,844	8,938	6,821	2,747	1,542	1,386	3,811	1,270	1,530
WSIP 2030 With Project	1,422	2,419	3,272	6,903	8,913	6,820	2,745	1,597	1,478	3,063	1,371	1,576
Difference	-47	293	-51	60	-25	-1	-1	54	92	-748	101	46
Percent Difference	-3.2%	13.8%	-1.5%	0.9%	-0.3%	0.0%	-0.1%	3.5%	6.6%	-19.6%	8.0%	3.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,279	1,563	2,816	2,633	5,801	4,583	2,296	1,291	1,494	3,674	1,112	1,017
WSIP 2030 With Project	1,352	1,682	2,910	2,655	5,719	4,619	2,361	1,342	1,692	2,708	1,266	1,145
Difference	73	118	93	22	-82	36	65	50	199	-966	154	129
Percent Difference	5.7%	7.6%	3.3%	0.8%	-1.4%	0.8%	2.8%	3.9%	13.3%	-26.3%	13.9%	12.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,420	2,982	6,445	1,938	3,255	2,527	1,326	1,124	1,763	2,193	1,238	867
WSIP 2030 With Project	1,587	3,257	6,486	2,126	3,158	2,514	1,366	1,265	1,597	1,723	1,190	1,053
Difference	168	275	42	188	-97	-13	40	141	-166	-470	-48	186
Percent Difference	11.8%	9.2%	0.6%	9.7%	-3.0%	-0.5%	3.0%	12.6%	-9.4%	-21.4%	-3.9%	21.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	798	816	1,082	1,067	1,238	986	942	817	1,005	1,055	707	675
WSIP 2030 With Project	817	820	1,030	1,140	1,290	1,113	998	869	913	1,077	782	765
Difference	19	4	-52	73	52	127	56	53	-92	22	75	91
Percent Difference	2.4%	0.5%	-4.8%	6.8%	4.2%	12.8%	6.0%	6.4%	-9.1%	2.1%	10.6%	13.4%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

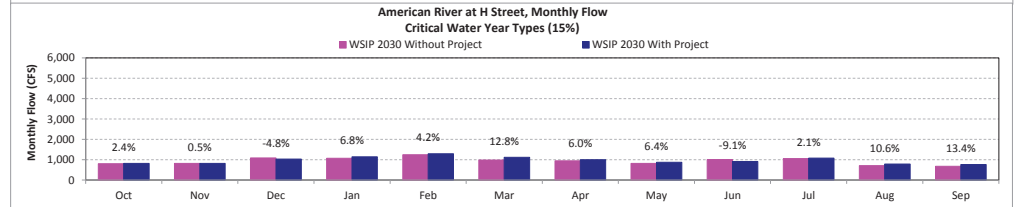
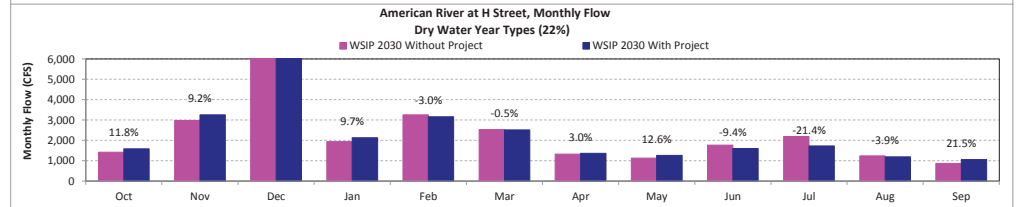
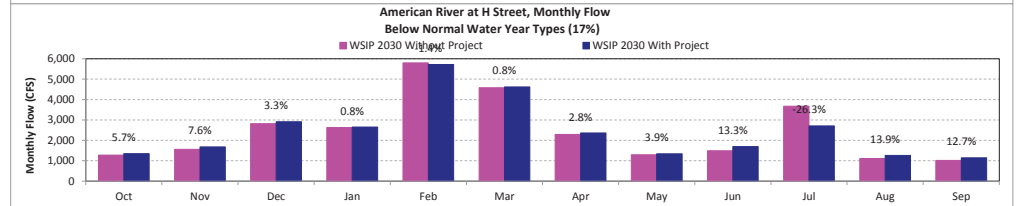
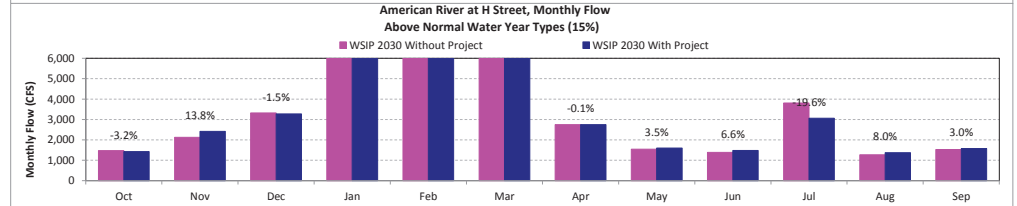
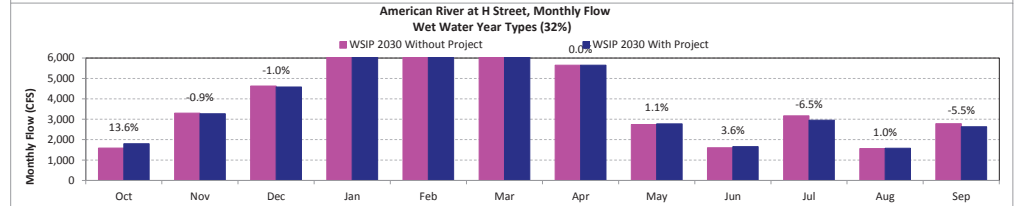
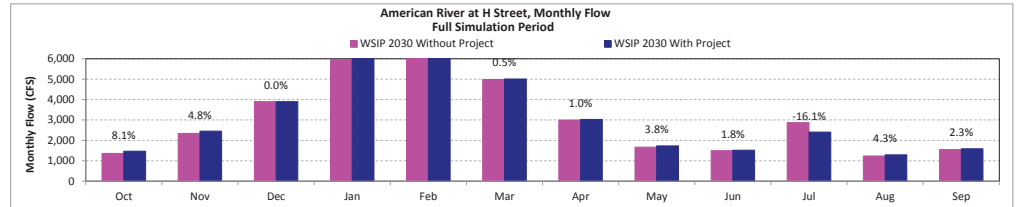


Table SW-46-a  
Feather River at Shanghai Bend, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
Full Simulation Period <sup>1</sup>												
WSIP 2030 Without Project	3,534	3,095	5,911	9,135	12,324	11,310	4,718	3,192	3,487	8,064	5,915	4,946
WSIP 2030 With Project	3,624	3,121	6,017	9,194	12,515	11,309	4,721	3,154	3,222	7,778	5,727	5,055
Difference	90	26	106	60	190	-2	3	-38	-265	-286	-188	108
Percent Difference <sup>2</sup>	2.6%	0.9%	1.8%	0.7%	1.5%	0.0%	0.1%	-1.2%	-7.6%	-3.5%	-3.2%	2.2%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	4,470	3,833	7,029	20,480	25,722	21,242	9,332	5,198	3,762	8,894	6,981	8,177
WSIP 2030 With Project	4,470	3,766	7,072	20,509	26,380	21,257	9,326	5,206	3,733	8,398	6,871	8,141
Difference	0	-67	42	29	659	15	-6	9	-29	-496	-110	-35
Percent Difference	0.0%	-1.8%	0.6%	0.1%	2.6%	0.1%	-0.1%	0.2%	-0.8%	-5.6%	-1.6%	-0.4%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	4,532	4,029	5,847	7,450	13,672	16,033	3,431	2,984	3,454	10,036	8,056	6,236
WSIP 2030 With Project	4,463	4,236	5,919	7,836	13,671	16,304	3,429	2,983	3,243	9,351	7,725	6,180
Difference	-69	207	72	386	-2	271	-2	-1	-211	-684	-331	-57
Percent Difference	-1.5%	5.1%	1.2%	5.2%	0.0%	1.7%	-0.1%	0.0%	-6.1%	-6.8%	-4.1%	-0.9%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	3,222	2,604	4,179	4,082	6,172	5,688	2,849	2,063	3,804	9,348	7,373	3,106
WSIP 2030 With Project	3,349	2,634	4,351	4,082	6,221	5,651	2,895	2,045	3,088	8,471	7,357	3,252
Difference	127	30	172	0	49	-37	46	-18	-717	-877	-16	146
Percent Difference	3.9%	1.2%	4.1%	0.0%	0.8%	-0.6%	1.6%	-0.9%	-18.8%	-9.4%	-0.2%	4.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	3,034	2,742	8,549	2,999	4,018	4,583	2,703	2,358	3,529	7,139	4,092	3,227
WSIP 2030 With Project	3,405	2,804	8,809	2,987	3,976	4,453	2,690	2,375	3,305	7,368	3,651	3,462
Difference	371	62	260	-11	-41	-131	-12	17	-224	228	-441	235
Percent Difference	12.2%	2.3%	3.0%	-0.4%	-1.0%	-2.9%	-0.5%	0.7%	-6.3%	3.2%	-10.8%	7.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	1,693	1,786	2,585	2,521	2,858	2,832	1,728	1,931	2,438	3,775	1,920	1,826
WSIP 2030 With Project	1,705	1,774	2,559	2,497	2,774	2,744	1,717	1,660	2,215	4,478	1,803	2,177
Difference	12	-12	-25	-24	-84	-88	-10	-271	-223	703	-116	351
Percent Difference	0.7%	-0.7%	-1.0%	-0.9%	-2.9%	-3.1%	-0.6%	-14.0%	-9.1%	18.6%	-6.1%	19.2%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

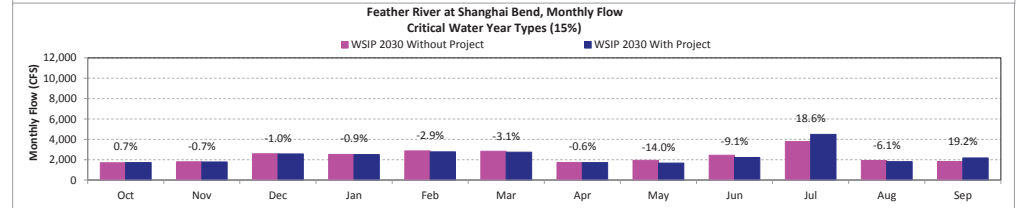
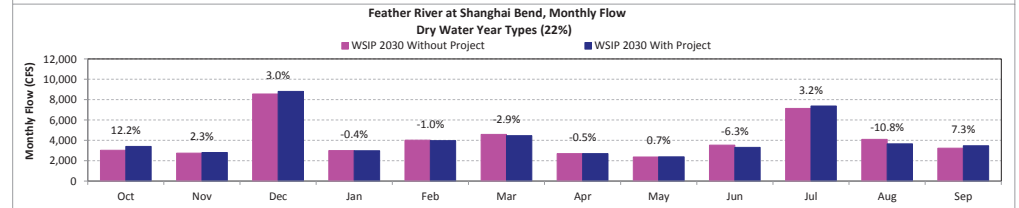
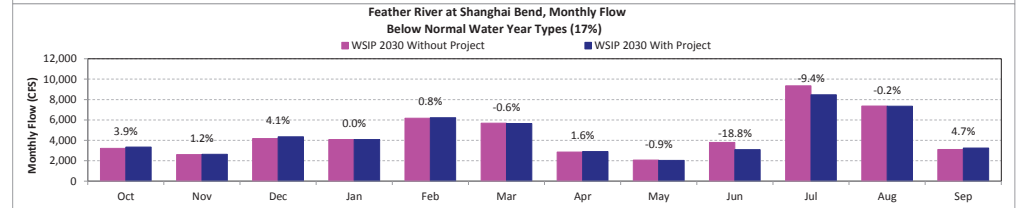
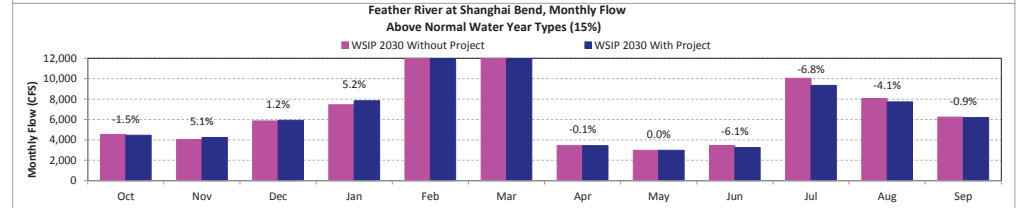
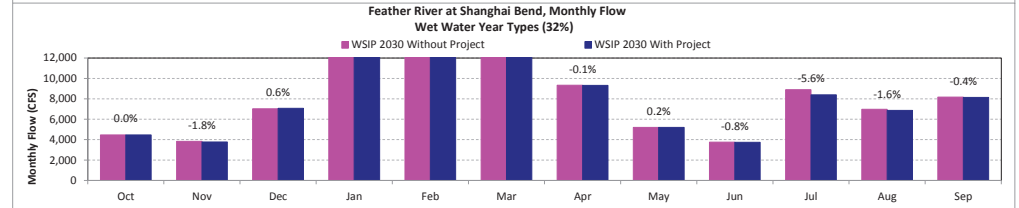
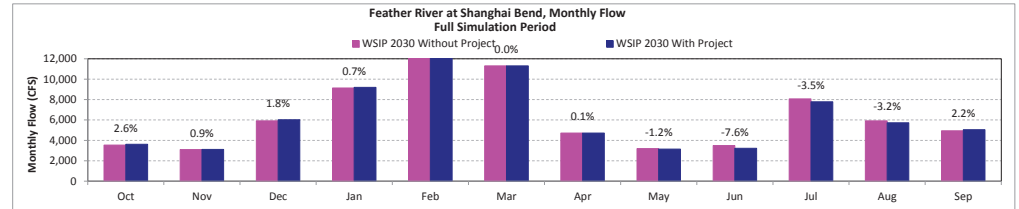


Table SW-47-a  
American River at Mouth, Monthly Flow  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Flow (CFS)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	1,358	2,343	3,897	5,957	7,231	4,982	2,998	1,668	1,492	2,866	1,239	1,551
WSIP 2030 With Project	1,467	2,455	3,896	6,020	7,199	5,006	3,027	1,731	1,518	2,405	1,292	1,587
Difference	110	112	-1	63	-32	23	29	63	26	-461	53	36
Percent Difference <sup>2</sup>	8.1%	4.8%	0.0%	1.1%	-0.4%	0.5%	1.0%	3.8%	1.8%	-16.1%	4.3%	2.3%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	1,587	3,300	4,630	12,711	12,804	7,861	5,653	2,741	1,602	3,164	1,565	2,783
WSIP 2030 With Project	1,803	3,270	4,584	12,719	12,804	7,861	5,653	2,772	1,659	2,958	1,581	2,630
Difference	216	-30	-45	8	0	0	0	31	57	-206	16	-153
Percent Difference	13.6%	-0.9%	-1.0%	0.1%	0.0%	0.0%	0.0%	1.1%	3.6%	-6.5%	1.0%	-5.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	1,470	2,126	3,323	6,844	8,938	6,821	2,747	1,542	1,386	3,811	1,270	1,530
WSIP 2030 With Project	1,422	2,419	3,272	6,903	8,913	6,820	2,745	1,597	1,478	3,063	1,371	1,576
Difference	-47	293	-51	60	-25	-1	-1	54	92	-748	101	46
Percent Difference	-3.2%	13.8%	-1.5%	0.9%	-0.3%	0.0%	-0.1%	3.5%	6.6%	-19.6%	8.0%	3.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	1,279	1,563	2,816	2,633	5,801	4,583	2,296	1,291	1,494	3,674	1,112	1,017
WSIP 2030 With Project	1,352	1,682	2,910	2,655	5,719	4,619	2,361	1,342	1,692	2,708	1,266	1,145
Difference	73	118	93	22	-82	36	65	50	199	-966	154	129
Percent Difference	5.7%	7.6%	3.3%	0.8%	-1.4%	0.8%	2.8%	3.9%	13.3%	-26.3%	13.9%	12.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	1,420	2,982	6,445	1,938	3,255	2,527	1,326	1,124	1,763	2,193	1,238	867
WSIP 2030 With Project	1,587	3,257	6,486	2,126	3,158	2,514	1,366	1,265	1,597	1,723	1,190	1,053
Difference	168	275	42	188	-97	-13	40	141	-166	-470	-48	186
Percent Difference	11.8%	9.2%	0.6%	9.7%	-3.0%	-0.5%	3.0%	12.6%	-9.4%	-21.4%	-3.9%	21.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	798	816	1,082	1,067	1,238	986	942	817	1,005	1,055	707	675
WSIP 2030 With Project	817	820	1,030	1,140	1,290	1,113	998	869	913	1,077	782	765
Difference	19	4	-52	73	52	127	56	53	-92	22	75	91
Percent Difference	2.4%	0.5%	-4.8%	6.8%	4.2%	12.8%	6.0%	6.4%	-9.1%	2.1%	10.6%	13.4%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

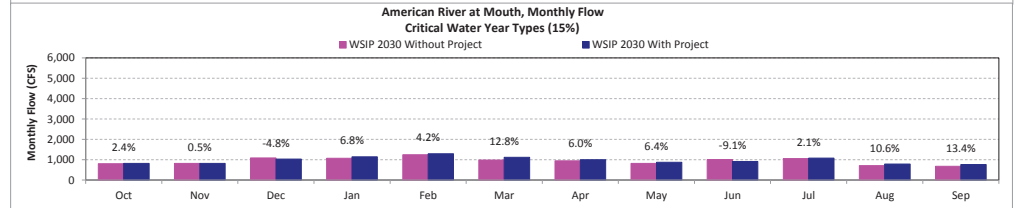
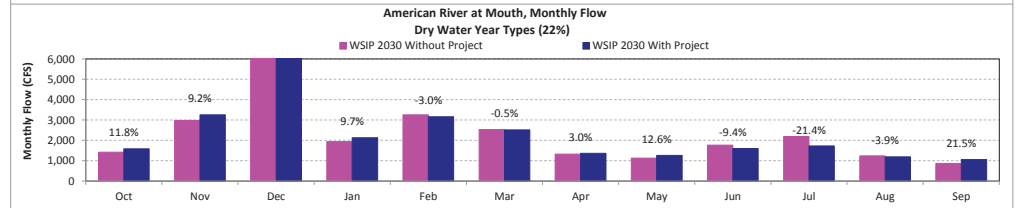
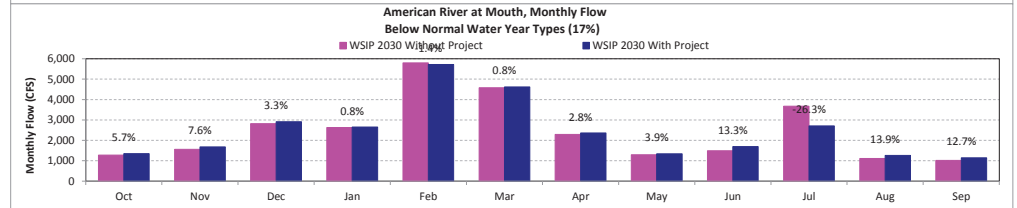
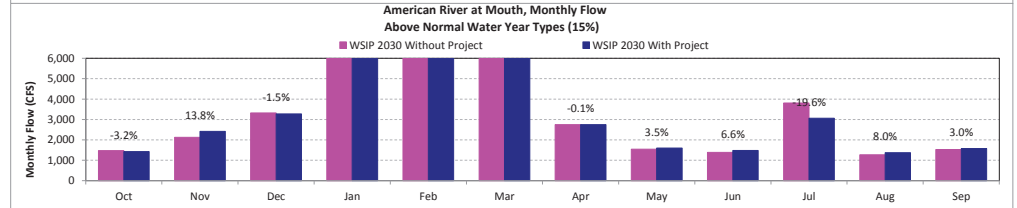
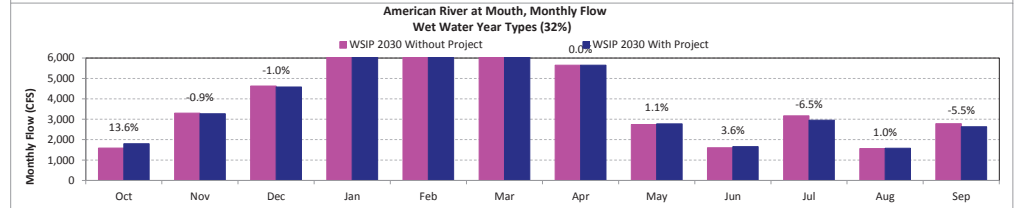
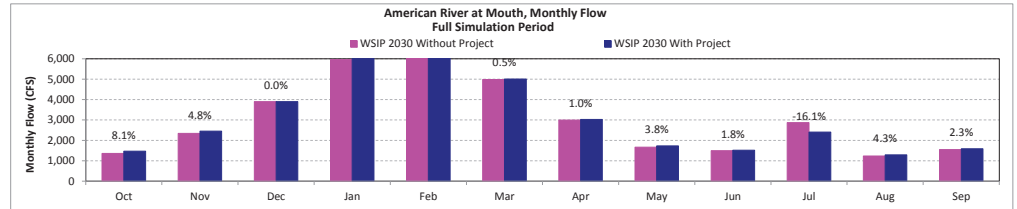




Table SW-53-a  
Sacramento River at Bend Bridge, Monthly Stage  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Stage (FT)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	3	4	5	6	8	6	4	4	5	6	4	4
WSIP 2030 With Project	3	4	5	6	8	6	4	4	5	6	4	4
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	-0.4%	1.8%	2.9%	0.8%	1.0%	0.7%	-1.0%	-5.4%	-4.9%	-0.8%	1.9%	2.6%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	4	5	5	11	13	10	6	4	5	6	5	6
WSIP 2030 With Project	4	5	5	12	13	10	6	4	5	6	5	6
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-0.1%	1.2%	1.6%	1.0%	0.0%	0.0%	-0.7%	-2.3%	1.0%	0.6%	2.8%	-0.5%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	3	5	4	8	9	7	4	4	6	7	5	4
WSIP 2030 With Project	3	5	5	8	9	7	4	4	5	6	4	4
Difference	0	0	1	0	0	0	0	0	-1	0	0	0
Percent Difference	2.4%	4.2%	11.7%	-1.2%	1.4%	2.5%	-1.7%	-5.5%	-13.1%	-0.1%	-4.9%	-5.2%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	3	3	5	4	5	4	4	4	5	7	5	3
WSIP 2030 With Project	3	3	5	4	5	4	4	4	5	7	4	3
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	4.5%	3.9%	2.9%	-0.3%	2.0%	0.7%	4.0%	-5.2%	-8.7%	0.0%	-1.6%	10.1%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	3	3	6	3	4	4	3	4	5	6	4	2
WSIP 2030 With Project	3	3	6	3	4	4	3	3	5	6	5	2
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-2.8%	0.5%	1.1%	5.5%	2.9%	0.8%	-2.0%	-7.2%	-4.2%	-1.1%	7.8%	12.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	2	2	3	3	3	3	3	3	5	6	4	2
WSIP 2030 With Project	2	2	3	3	3	3	3	3	5	6	4	2
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-8.7%	-1.9%	0.0%	0.9%	1.7%	0.5%	-8.5%	-11.3%	-3.4%	-5.6%	4.8%	9.1%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

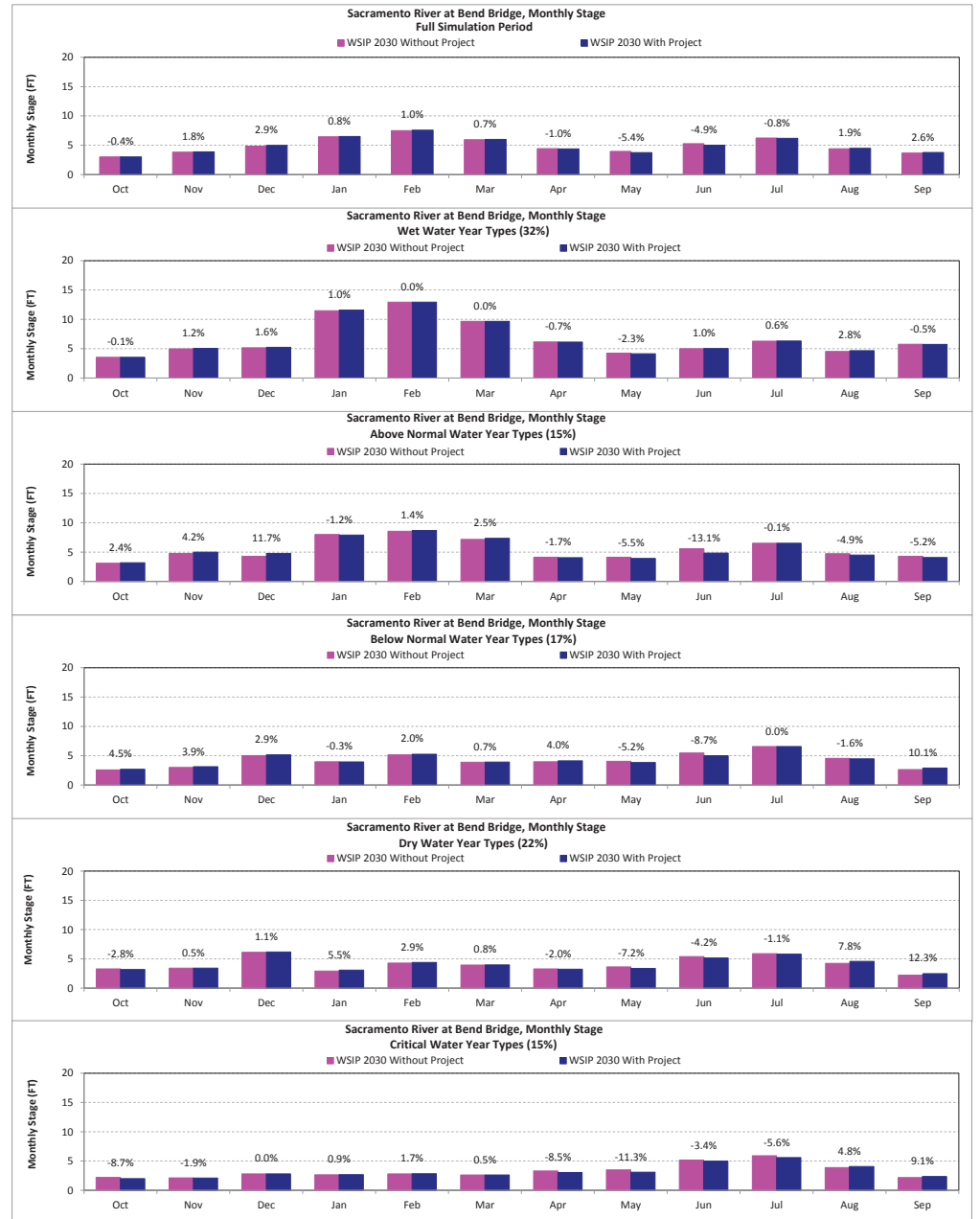


Table SW-54-a  
Sacramento River below Hamilton City, Monthly Stage  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Stage (FT)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	29	30	31	32	33	32	30	30	30	31	30	30
WSIP 2030 With Project	29	30	31	32	33	32	30	30	30	31	30	30
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	0.0%	0.0%	-0.6%	-0.9%	-1.0%	-1.2%	-0.3%	-0.2%	-0.2%	0.3%	0.3%	0.3%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	30	31	31	35	36	34	32	30	30	31	30	31
WSIP 2030 With Project	30	31	31	35	36	34	31	30	30	31	30	31
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	-0.9%	-0.7%	-0.7%	-0.8%	-0.4%	-0.1%	0.1%	0.2%	0.0%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	30	31	31	33	34	33	30	30	30	31	30	30
WSIP 2030 With Project	30	31	31	33	33	32	30	30	30	31	30	30
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.1%	-0.1%	-0.6%	-1.3%	-1.1%	-1.0%	-0.5%	-0.3%	-0.8%	0.9%	-0.1%	-0.3%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	29	30	31	31	31	31	30	30	30	31	30	29
WSIP 2030 With Project	29	30	31	30	31	30	30	30	30	31	30	30
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.5%	0.3%	0.2%	-1.2%	-0.8%	-1.6%	-0.3%	-0.3%	-0.4%	0.7%	0.0%	0.7%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	30	30	32	30	31	31	29	30	30	31	30	29
WSIP 2030 With Project	30	30	32	30	30	30	29	29	30	31	30	29
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-0.4%	-0.2%	-0.7%	-0.8%	-1.6%	-1.6%	0.0%	-0.2%	0.0%	0.3%	0.9%	0.8%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	29	29	30	30	30	30	29	29	30	31	30	29
WSIP 2030 With Project	29	29	29	30	30	29	29	29	30	31	30	29
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-0.4%	-0.2%	-1.2%	-0.6%	-1.0%	-1.0%	0.0%	-0.2%	0.0%	-0.3%	0.6%	0.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

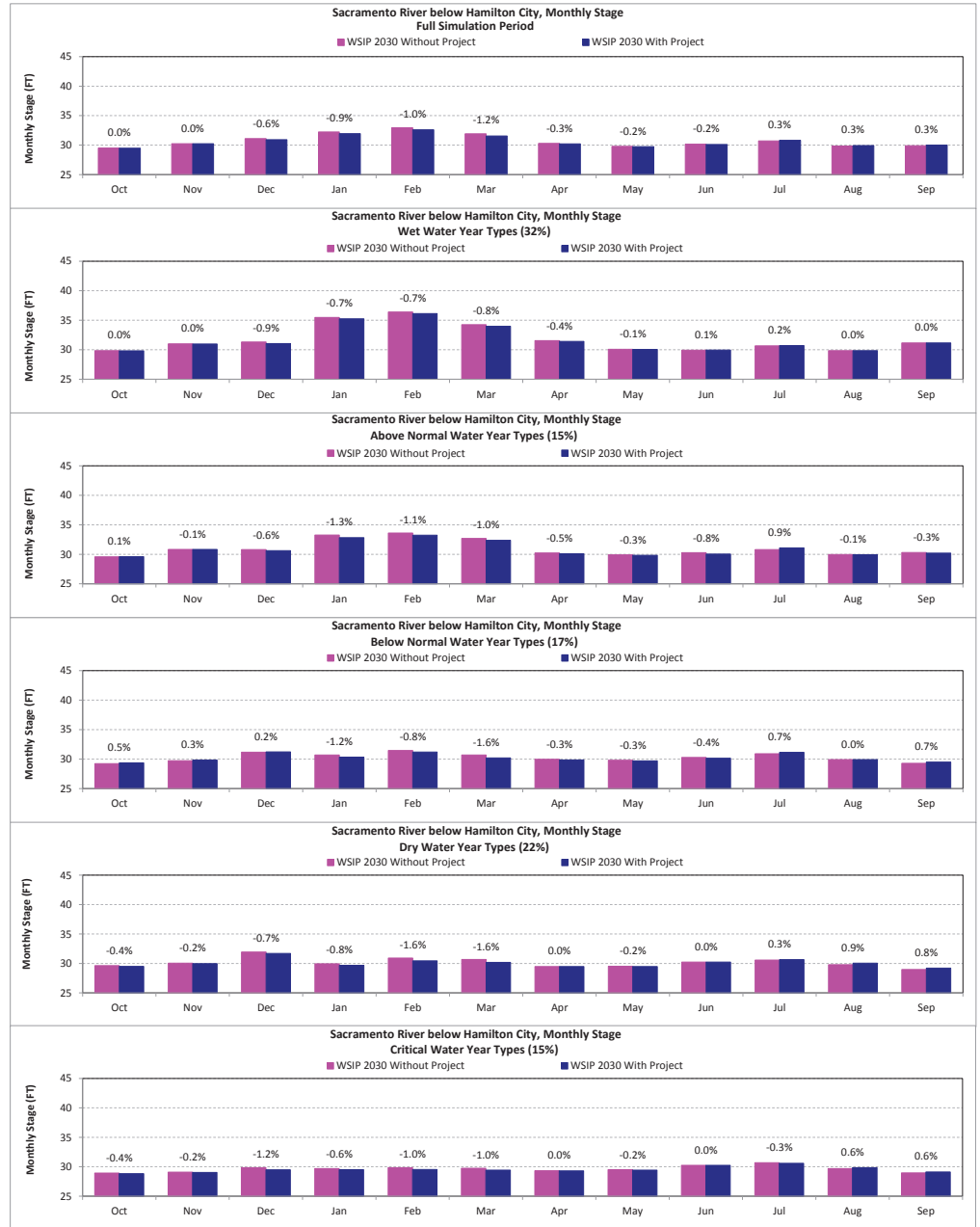


Table SW-56-a  
Sacramento River at Wilkins Slough, Monthly Stage  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Stage (FT)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	29	32	35	37	39	37	31	29	29	31	28	31
WSIP 2030 With Project	30	32	34	36	38	36	31	29	30	32	29	32
Difference	1	0	-1	-1	-1	-1	0	0	1	1	1	1
Percent Difference <sup>2</sup>	2.0%	0.8%	-1.7%	-2.8%	-2.5%	-3.2%	-0.5%	-0.5%	2.3%	4.0%	3.2%	3.5%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	30	35	36	42	43	41	36	31	29	31	28	36
WSIP 2030 With Project	31	35	35	42	43	41	36	31	29	31	29	36
Difference	0	0	-1	-1	0	0	0	0	0	1	0	0
Percent Difference	0.6%	0.2%	-2.2%	-1.2%	-0.7%	-1.1%	-0.9%	-0.1%	1.6%	1.7%	0.3%	1.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	29	34	34	40	41	40	32	30	30	31	29	33
WSIP 2030 With Project	30	34	33	39	40	39	32	29	30	33	29	33
Difference	0	0	-1	-1	-1	-1	0	0	0	2	0	1
Percent Difference	1.5%	0.0%	-2.2%	-2.2%	-2.1%	-2.6%	-1.3%	-1.2%	0.5%	7.2%	1.1%	1.9%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	28	30	35	35	37	36	31	29	29	32	29	29
WSIP 2030 With Project	30	31	35	34	36	34	31	29	30	34	29	30
Difference	1	1	0	-2	-1	-2	0	0	1	2	1	2
Percent Difference	4.3%	1.8%	1.1%	-4.5%	-2.5%	-5.2%	-0.6%	-1.2%	2.8%	6.7%	2.5%	5.9%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	29	31	36	32	36	35	28	27	29	30	28	28
WSIP 2030 With Project	30	32	36	31	34	34	28	27	30	32	30	30
Difference	1	0	-1	-2	-2	0	0	0	1	2	2	2
Percent Difference	2.0%	1.1%	-1.7%	-4.7%	-5.6%	-4.9%	0.2%	-1.1%	3.4%	5.1%	8.1%	6.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	27	28	32	31	32	32	27	27	29	31	28	28
WSIP 2030 With Project	28	28	30	31	31	31	27	27	30	31	30	29
Difference	1	0	-1	-1	-1	-1	0	0	1	0	2	1
Percent Difference	2.2%	1.5%	-4.6%	-2.5%	-3.4%	-3.5%	0.9%	1.0%	3.5%	0.2%	5.9%	4.6%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

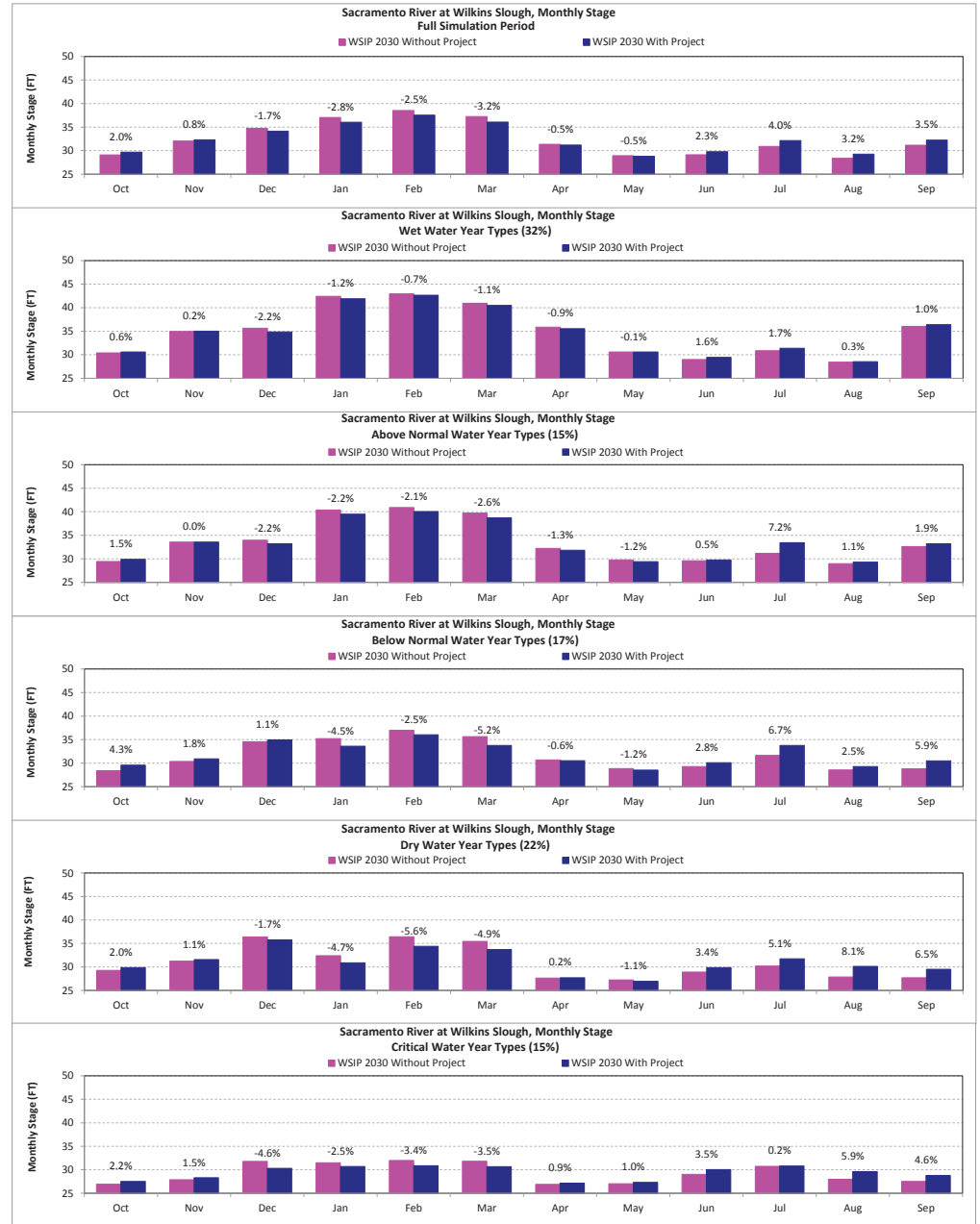


Table SW-57-a  
Feather River near Gridley, Monthly Stage  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Stage (FT)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	74	74	74	75	76	76	74	74	74	77	76	75
WSIP 2030 With Project	75	74	74	75	76	76	74	74	74	77	76	75
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	-0.2%	-0.1%	-0.1%	0.1%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	75	74	75	78	80	79	76	74	74	77	76	77
WSIP 2030 With Project	75	74	75	78	80	79	76	74	74	77	76	77
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.1%	-0.3%	0.0%	0.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	75	74	75	74	76	78	73	73	74	78	77	76
WSIP 2030 With Project	75	74	75	74	76	78	73	73	74	77	77	76
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	-0.1%	0.1%	0.1%	0.3%	0.0%	0.2%	0.0%	0.0%	-0.1%	-0.4%	-0.2%	0.0%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	74	74	74	73	74	74	73	73	75	77	76	74
WSIP 2030 With Project	74	74	74	73	74	74	73	73	74	77	76	74
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.1%	0.0%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.2%	0.2%	-0.4%	0.3%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	74	73	75	73	74	74	73	74	75	76	75	74
WSIP 2030 With Project	74	73	75	73	74	74	73	74	74	77	74	74
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.2%	0.1%	0.1%	0.0%	0.0%	-0.1%	0.0%	0.0%	-0.2%	0.2%	-0.4%	0.3%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	73	73	73	73	73	73	73	73	74	75	74	74
WSIP 2030 With Project	73	73	73	73	73	73	73	73	74	75	73	74
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%	-0.3%	-0.3%	0.5%	-0.2%	0.3%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average

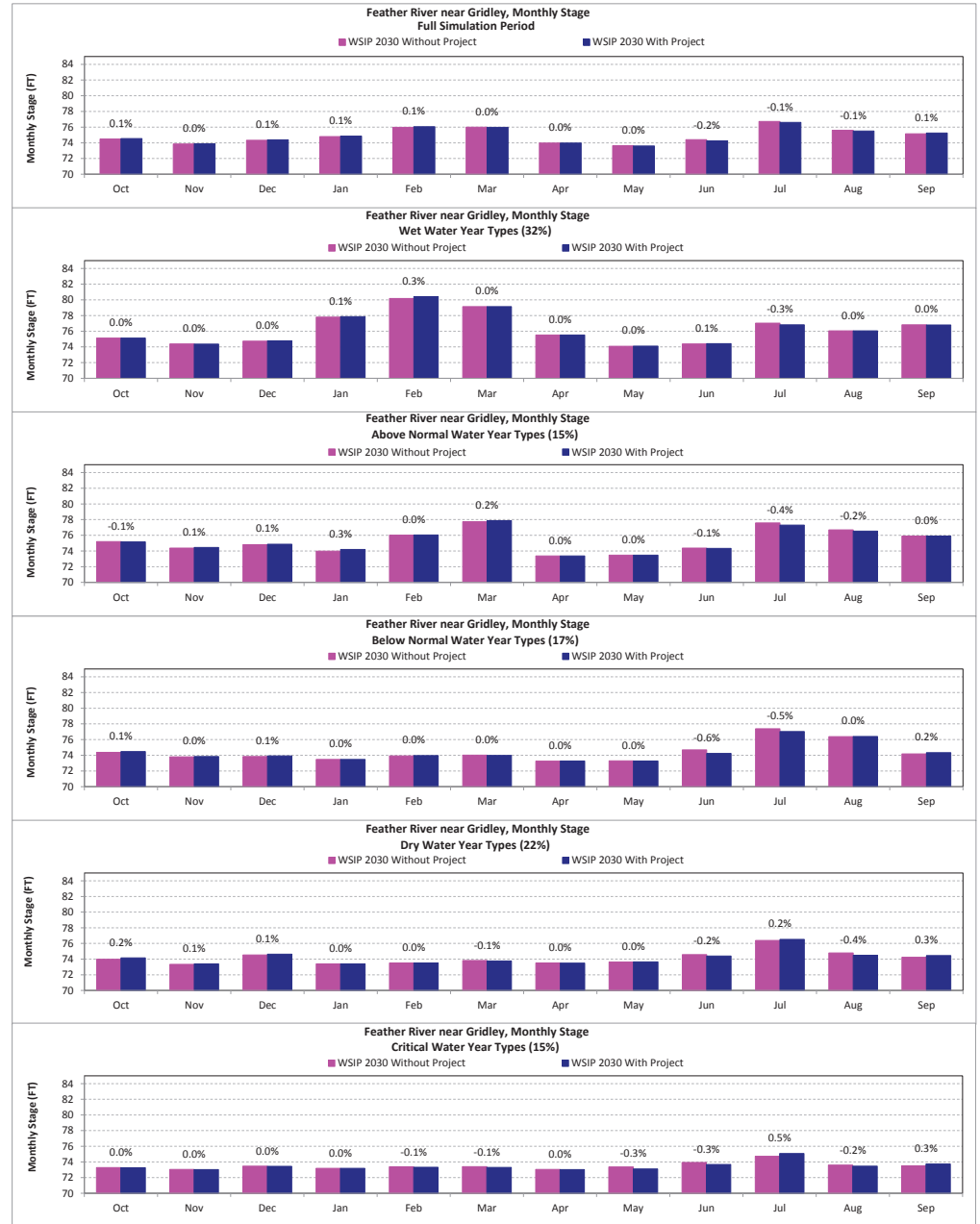


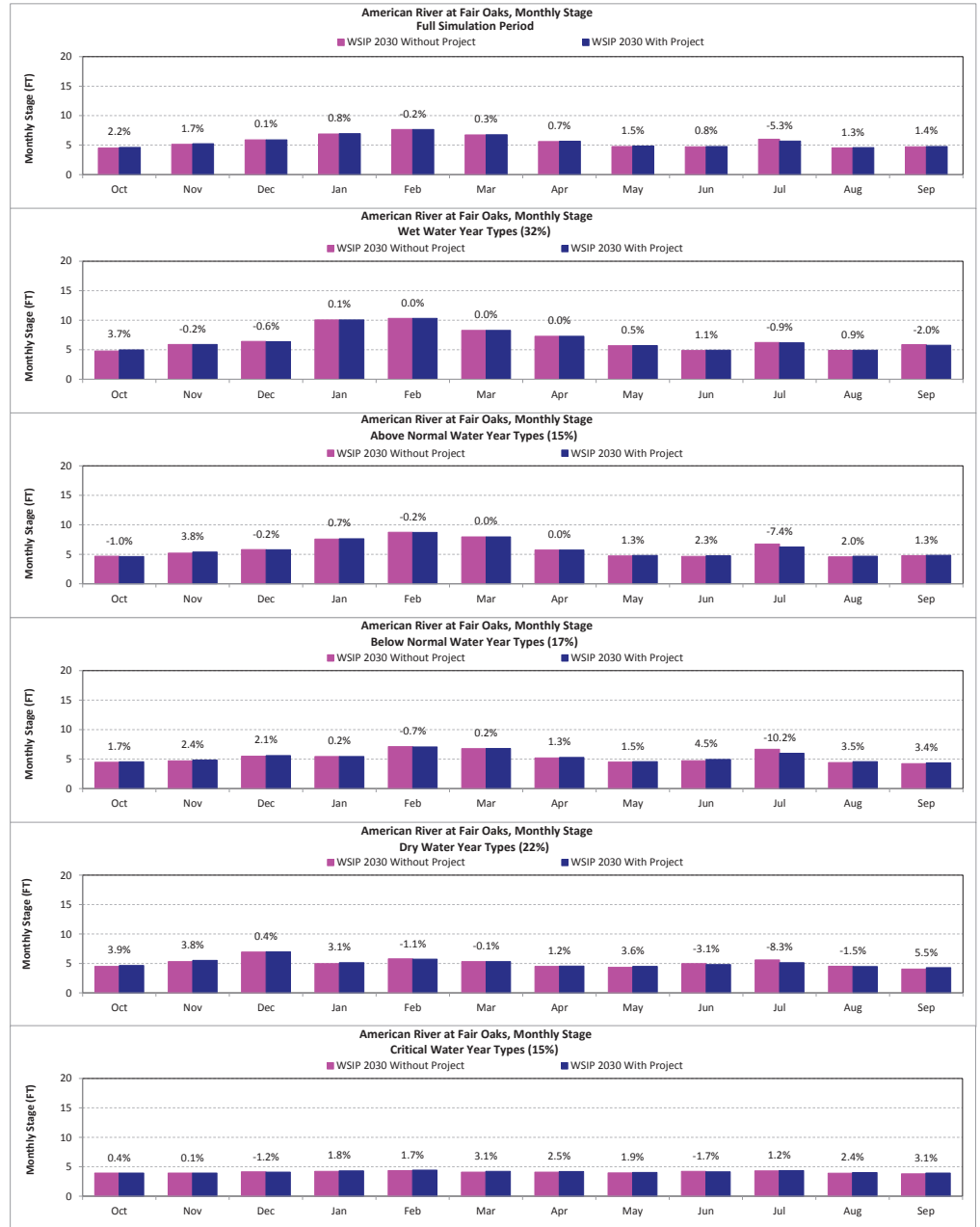
Table SW-58-a  
American River at Fair Oaks, Monthly Stage  
Long-term Average and Average by Water Year Type

Analysis Period	Monthly Stage (FT)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>1</sup></b>												
WSIP 2030 Without Project	5	5	6	7	8	7	6	5	5	6	5	5
WSIP 2030 With Project	5	5	6	7	8	7	6	5	5	6	5	5
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference <sup>2</sup>	2.2%	1.7%	0.1%	0.8%	-0.2%	0.3%	0.7%	1.5%	0.8%	-5.3%	1.3%	1.4%
<b>Water Year Types<sup>2</sup></b>												
<b>Wet (30.5%)</b>												
WSIP 2030 Without Project	5	6	6	10	10	8	7	6	5	6	5	6
WSIP 2030 With Project	5	6	6	10	10	8	7	6	5	6	5	6
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	3.7%	-0.2%	-0.6%	0.1%	0.0%	0.0%	0.0%	0.5%	1.1%	-0.9%	0.9%	-2.0%
<b>Above Normal (14.6%)</b>												
WSIP 2030 Without Project	5	5	6	8	9	8	6	5	5	7	5	5
WSIP 2030 With Project	5	5	6	8	9	8	6	5	5	6	5	5
Difference	0	0	0	0	0	0	0	0	0	-1	0	0
Percent Difference	-1.0%	3.8%	-0.2%	0.7%	-0.2%	0.0%	0.0%	1.3%	2.3%	-7.4%	2.0%	1.3%
<b>Below Normal (20.7%)</b>												
WSIP 2030 Without Project	4	5	5	5	7	7	5	5	5	7	4	4
WSIP 2030 With Project	5	5	6	5	7	7	5	5	5	6	5	4
Difference	0	0	0	0	0	0	0	0	0	-1	0	0
Percent Difference	1.7%	2.4%	2.1%	0.2%	-0.7%	0.2%	1.3%	1.5%	4.5%	-10.2%	3.5%	3.4%
<b>Dry (19.5%)</b>												
WSIP 2030 Without Project	4	5	7	5	6	5	4	4	5	6	5	4
WSIP 2030 With Project	5	6	7	5	6	5	5	4	5	5	4	4
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	3.9%	3.8%	0.4%	3.1%	-1.1%	-0.1%	1.2%	3.6%	-3.1%	-8.3%	-1.5%	5.5%
<b>Critical (14.6%)</b>												
WSIP 2030 Without Project	4	4	4	4	4	4	4	4	4	4	4	4
WSIP 2030 With Project	4	4	4	4	4	4	4	4	4	4	4	4
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0.4%	0.1%	-1.2%	1.8%	1.7%	3.1%	2.5%	1.9%	-1.7%	1.2%	2.4%	3.1%

<sup>1</sup> Based on the 82-year simulation period

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

<sup>3</sup> Relative difference of the monthly average



**Trinity and Sacramento River Basin Operations**  
**Exceedance Probability Charts and Tables**

---

Figure SW-01-b  
Trinity Lake, End of Month Storage  
Probability of Exceedance

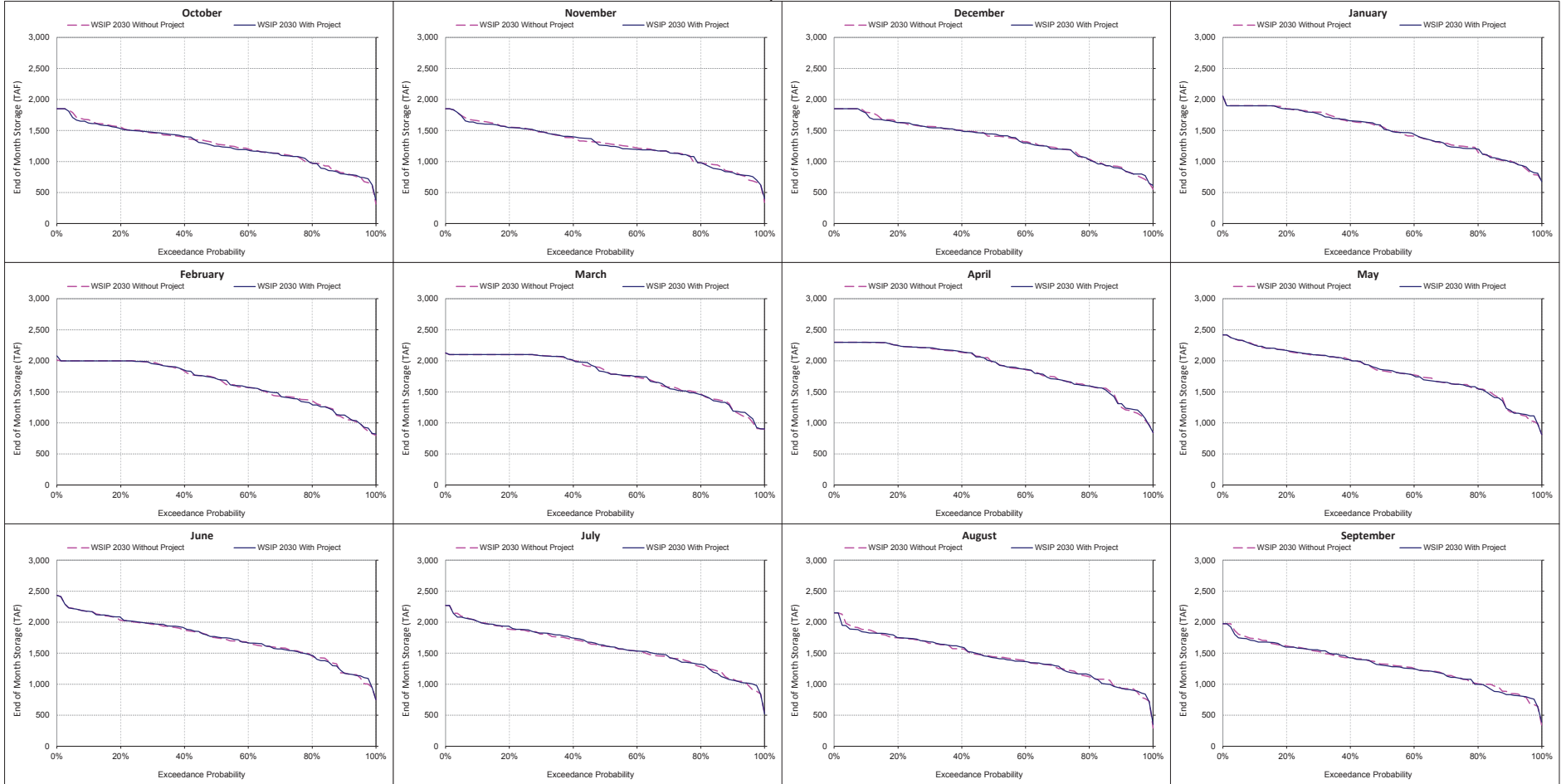










Figure SW-02-b  
Trinity Lake, End of Month Elevation  
Probability of Exceedance

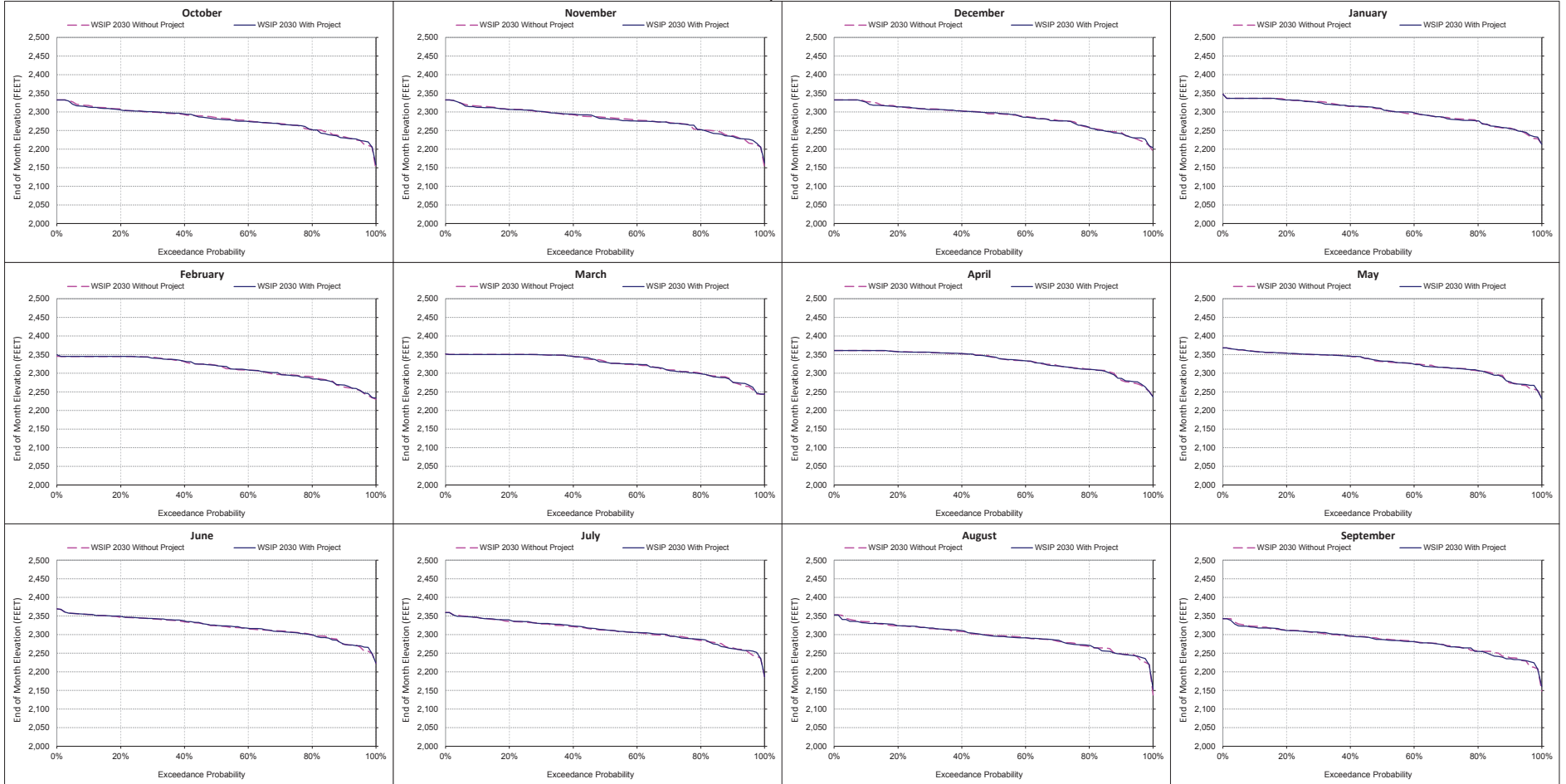
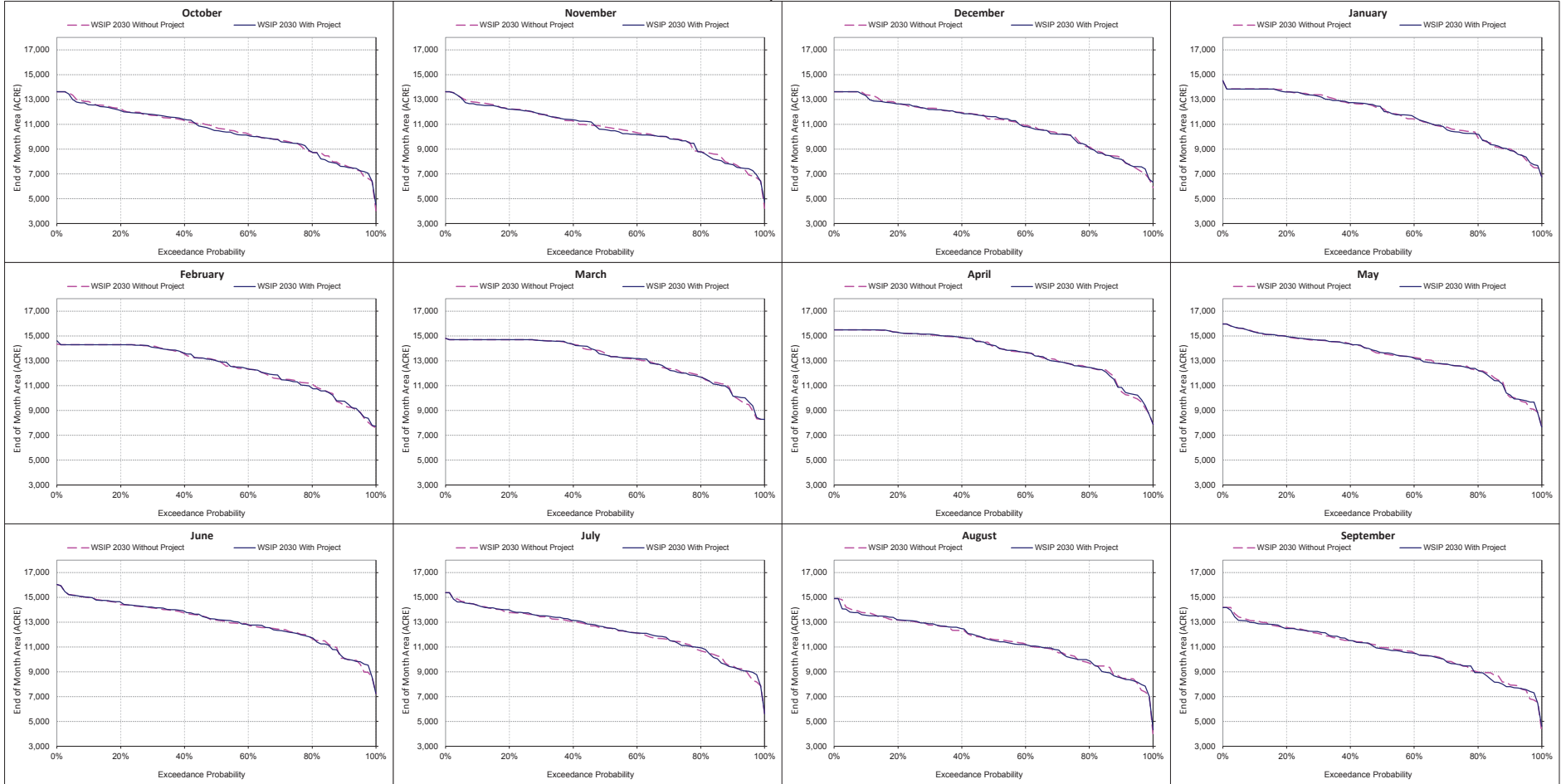








Figure SW-03-b  
Trinity Lake, End of Month Area  
Probability of Exceedance











**Figure SW-04-b**  
**Trinity River below Lewiston Reservoir, Monthly Flow**  
**Probability of Exceedance**

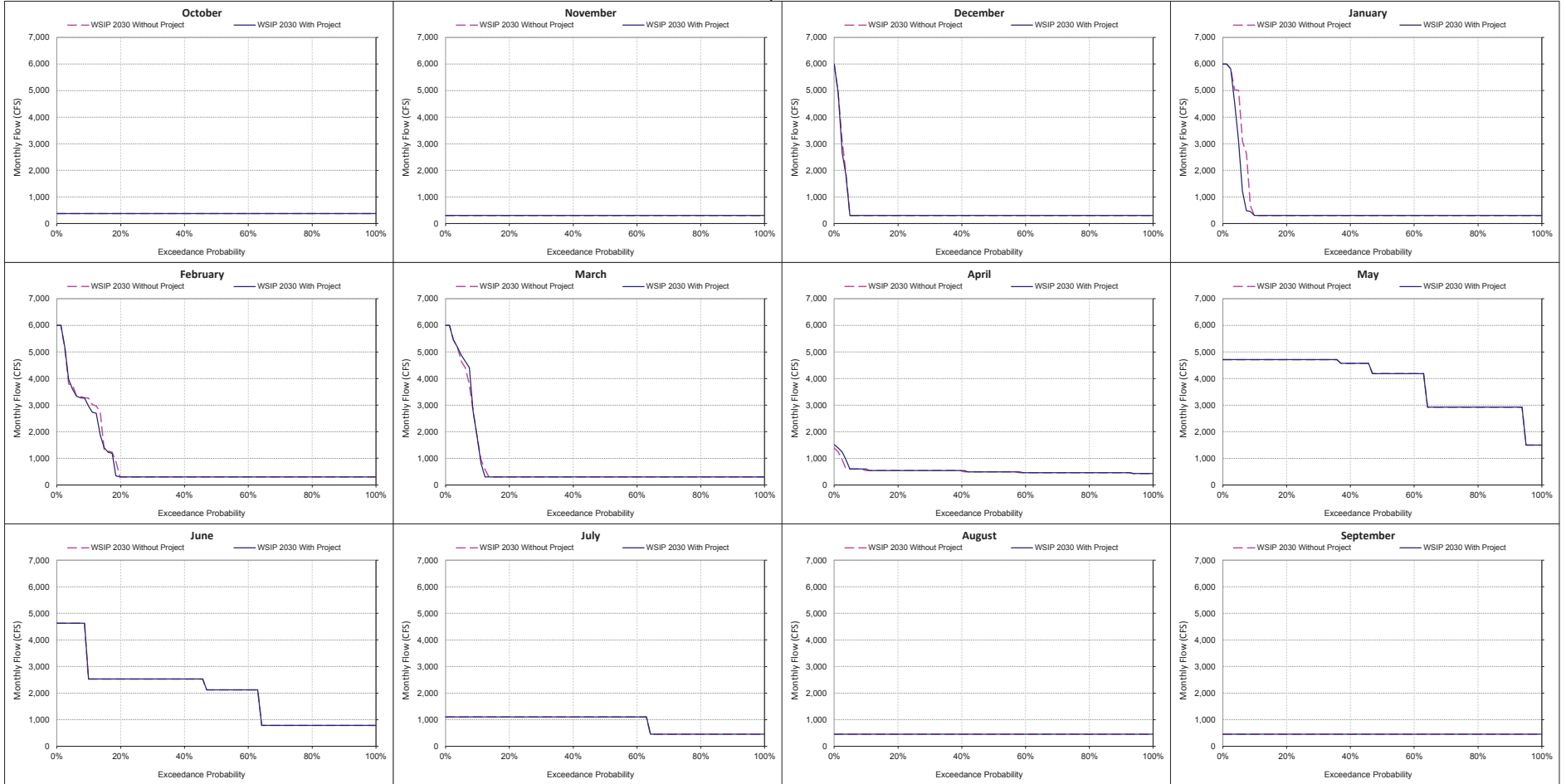
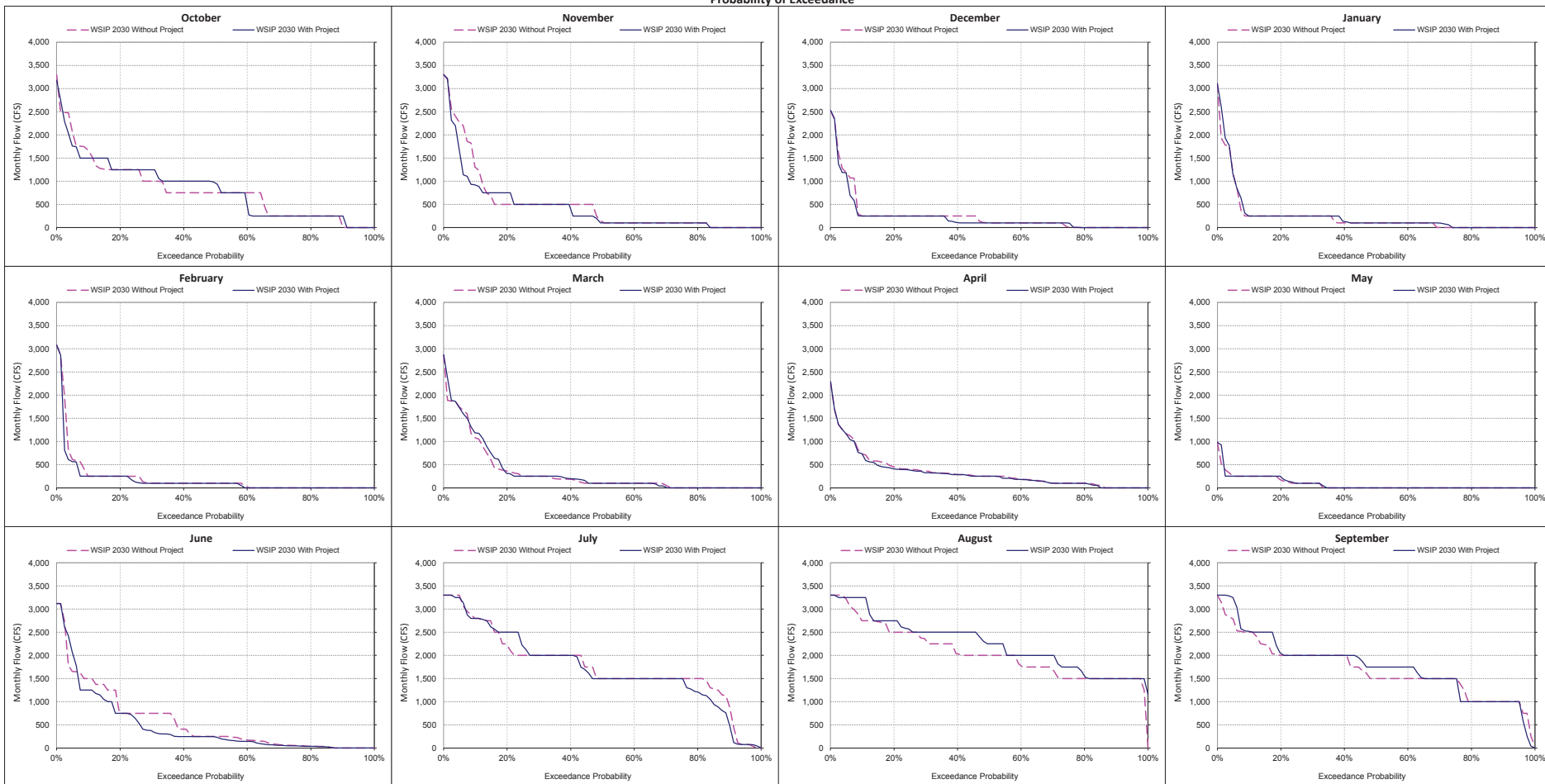








Figure SW-05-b  
Clear Creek Tunnel, Monthly Flow  
Probability of Exceedance











**Figure SW-06-b**  
**Clear Creek below Whiskeytown Reservoir, Monthly Flow**  
**Probability of Exceedance**

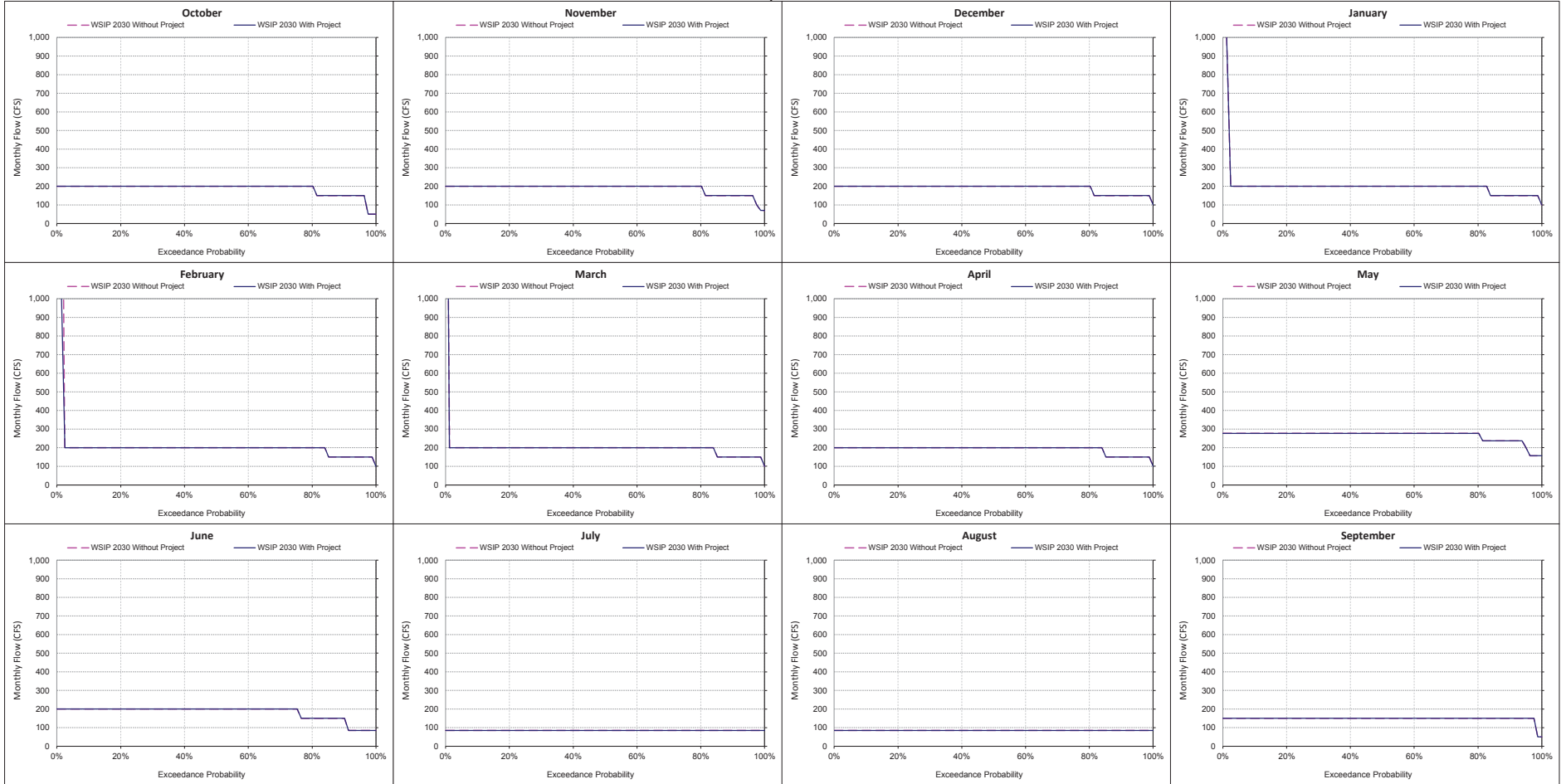








Figure SW-07-b  
Shasta Lake, End of Month Storage  
Probability of Exceedance

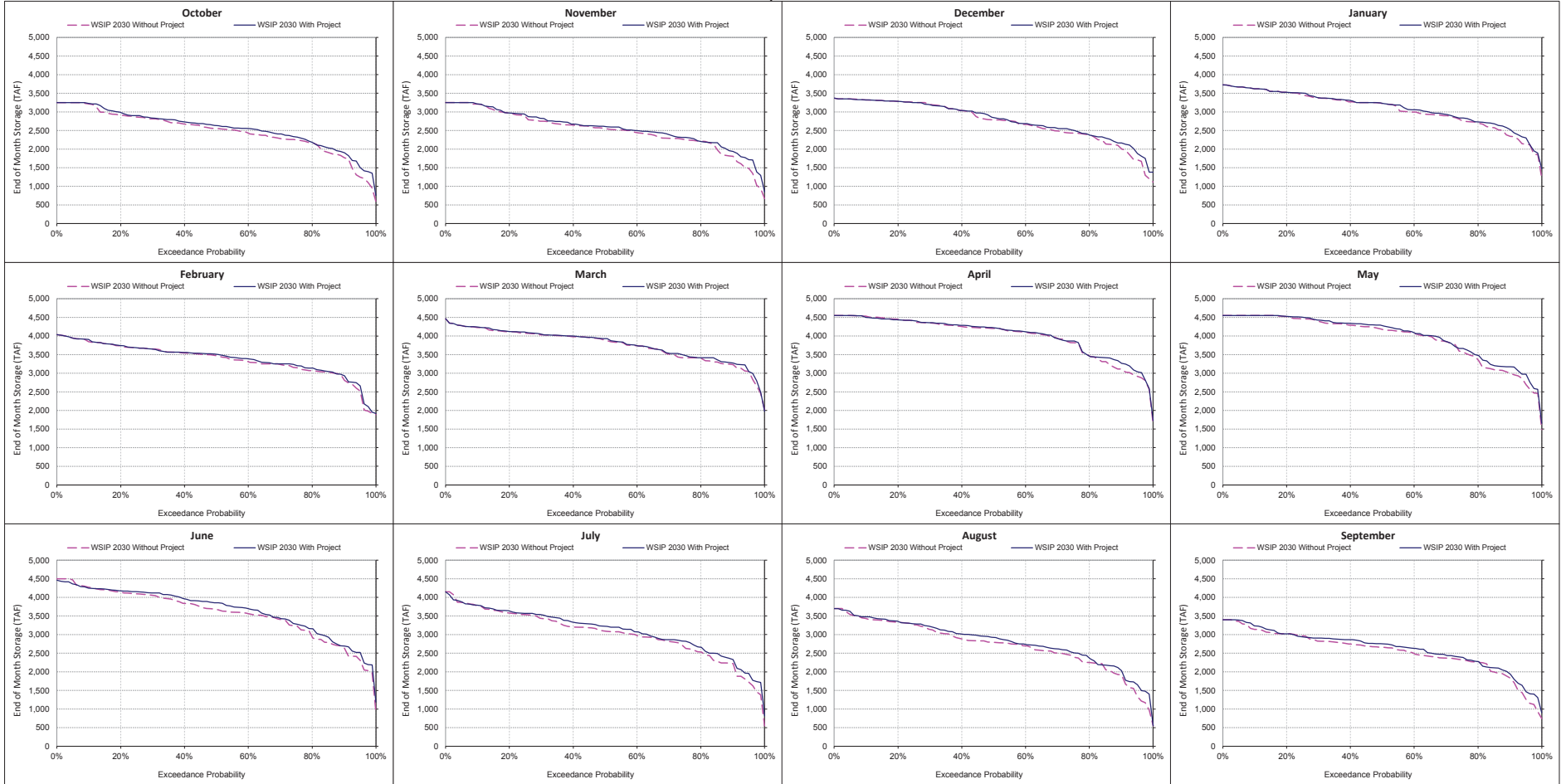










Figure SW-08-b  
Shasta Lake, End of Month Elevation  
Probability of Exceedance

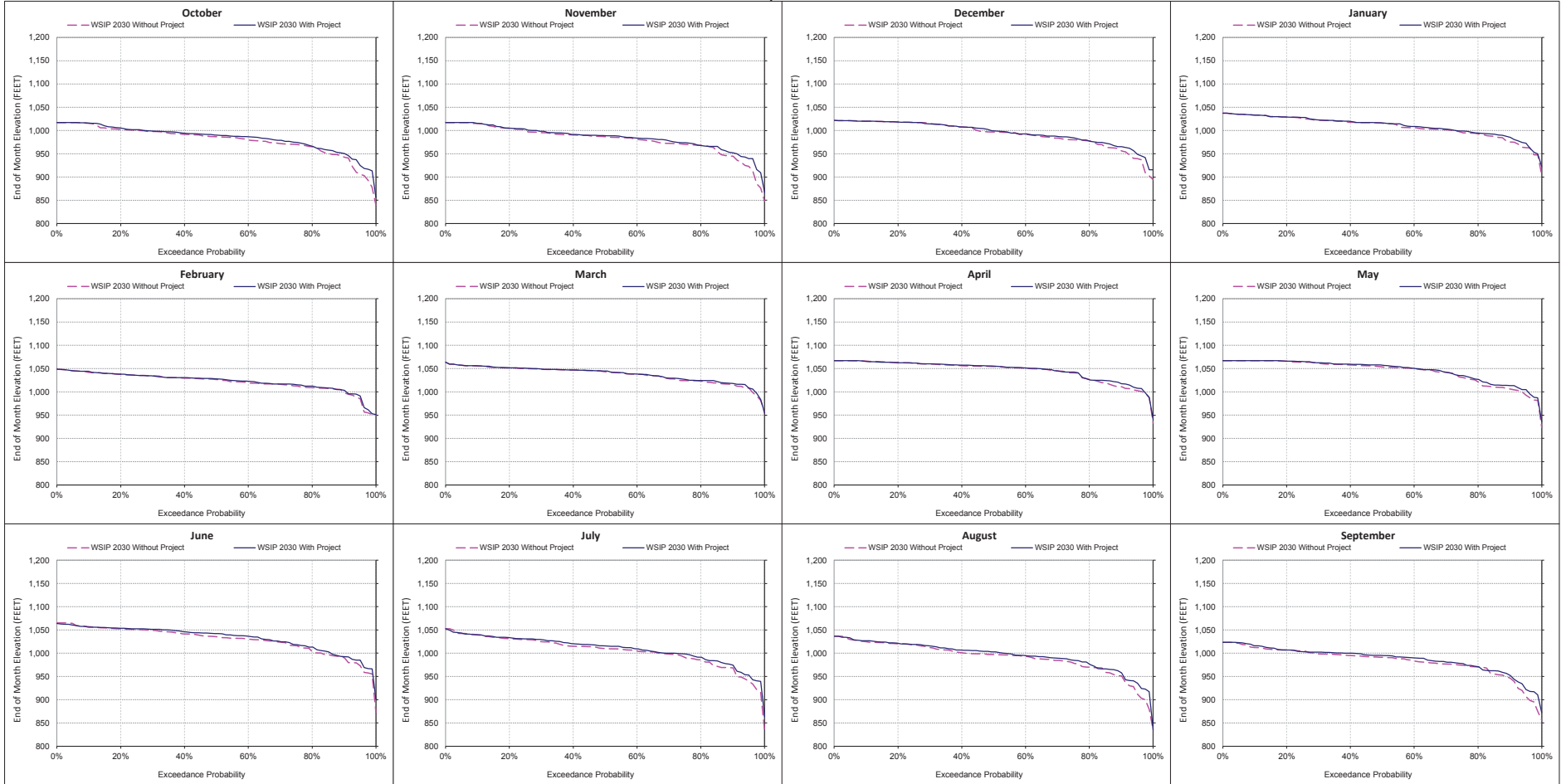








Figure SW-09-b  
Shasta Lake, End of Month Area  
Probability of Exceedance

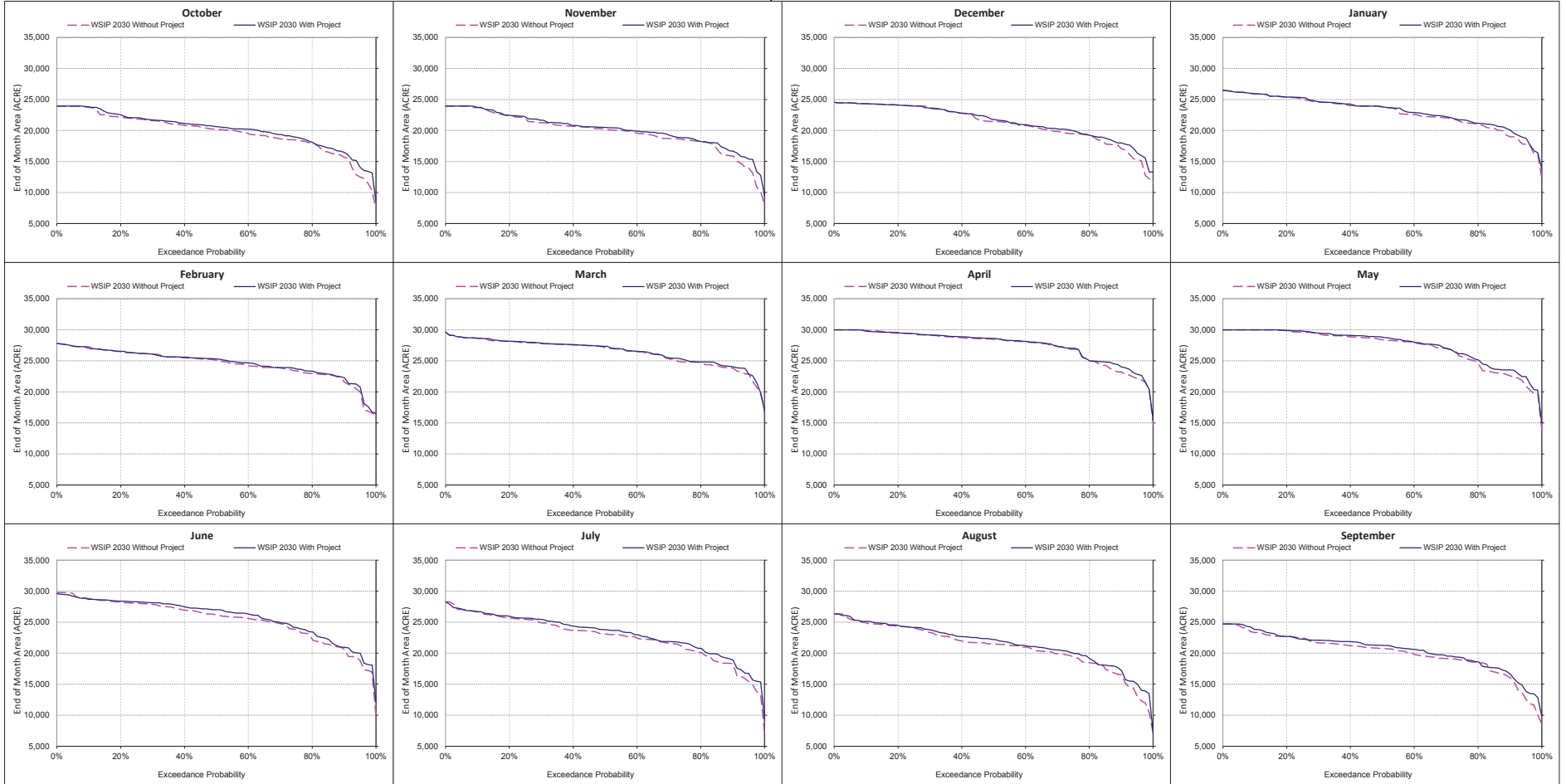






Table SW-09-b  
Shasta Lake, End of Month Area  
Probability of Exceedance

Percent Exceedance Probability (%)	February			
	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)
0.0%	27,790	27,790	0	0.0%
1.2%	27,726	27,726	0	0.0%
2.5%	27,653	27,653	0	0.0%
3.7%	27,554	27,554	0	0.0%
4.9%	27,391	27,391	0	0.0%
6.2%	27,315	27,315	0	0.0%
7.4%	27,288	27,288	0	0.0%
8.6%	27,262	27,262	0	0.0%
9.9%	26,979	27,253	274	1.0%
11.1%	26,905	26,979	75	0.3%
12.3%	26,890	26,905	14	0.1%
13.6%	26,883	26,893	0	0.0%
14.8%	26,748	26,748	0	0.0%
16.0%	26,725	26,725	0	0.0%
17.3%	26,675	26,675	0	0.0%
18.5%	26,527	26,588	61	0.2%
19.8%	26,512	26,527	15	0.1%
21.0%	26,357	26,512	154	0.6%
22.2%	26,322	26,357	36	0.1%
23.5%	26,298	26,298	0	0.0%
24.7%	26,252	26,252	0	0.0%
25.9%	26,197	26,197	0	0.0%
27.2%	26,195	26,195	0	0.0%
28.4%	26,122	26,122	0	0.0%
29.6%	26,085	26,085	0	0.0%
30.9%	26,073	25,989	-85	-0.3%
32.1%	25,989	25,811	-177	-0.7%
33.3%	25,732	25,732	0	0.0%
34.6%	25,634	25,634	0	0.0%
35.8%	25,620	25,631	11	0.0%
37.0%	25,612	25,620	8	0.0%
38.3%	25,583	25,620	37	0.1%
39.5%	25,497	25,589	92	0.4%
40.7%	25,471	25,583	112	0.4%
42.0%	25,470	25,515	44	0.2%
43.2%	25,422	25,475	52	0.2%
44.4%	25,348	25,468	120	0.5%
45.7%	25,279	25,422	144	0.6%
46.9%	25,251	25,379	127	0.5%
48.1%	25,240	25,376	135	0.5%
49.4%	25,155	25,348	192	0.8%
50.6%	25,059	25,279	220	0.9%
51.9%	24,893	25,155	262	1.1%
53.1%	24,851	25,059	208	0.8%
54.3%	24,572	24,893	321	1.3%
55.6%	24,503	24,851	348	1.4%
56.8%	24,495	24,730	235	1.2%
58.0%	24,452	24,703	250	1.0%
59.3%	24,371	24,685	314	1.3%
60.5%	24,151	24,625	474	2.0%
61.7%	24,130	24,551	421	1.7%
63.0%	24,095	24,343	248	1.0%
64.2%	23,938	24,151	213	0.9%
65.4%	23,937	24,130	192	0.8%
66.7%	23,937	24,095	158	0.7%
67.9%	23,937	23,938	1	0.0%
69.1%	23,937	23,937	0	0.0%
70.4%	23,815	23,937	122	0.5%
71.6%	23,700	23,937	237	1.0%
72.8%	23,690	23,937	247	1.0%
74.1%	23,434	23,849	415	1.8%
75.3%	23,378	23,877	499	2.1%
76.5%	23,149	23,817	668	2.9%
77.8%	23,077	23,387	310	1.3%
79.0%	22,973	23,348	375	1.6%
80.2%	22,951	23,327	376	1.6%
81.5%	22,890	23,101	212	0.9%
82.7%	22,818	23,017	199	0.9%
84.0%	21,201	22,788	1,587	7.5%
85.2%	22,740	22,842	101	0.4%
86.4%	22,636	22,765	129	0.6%
87.7%	22,554	22,480	-75	-0.3%
88.9%	22,442	22,450	8	0.0%
90.1%	21,563	22,233	670	3.1%
91.4%	21,201	21,942	741	3.5%
92.6%	20,985	21,295	310	1.5%
93.8%	20,447	21,250	804	3.9%
95.1%	20,033	20,769	736	3.7%
96.3%	17,089	18,051	963	5.6%
97.5%	16,914	17,614	700	4.1%
98.8%	16,563	16,736	173	1.0%
100.0%	16,361	16,559	198	1.2%

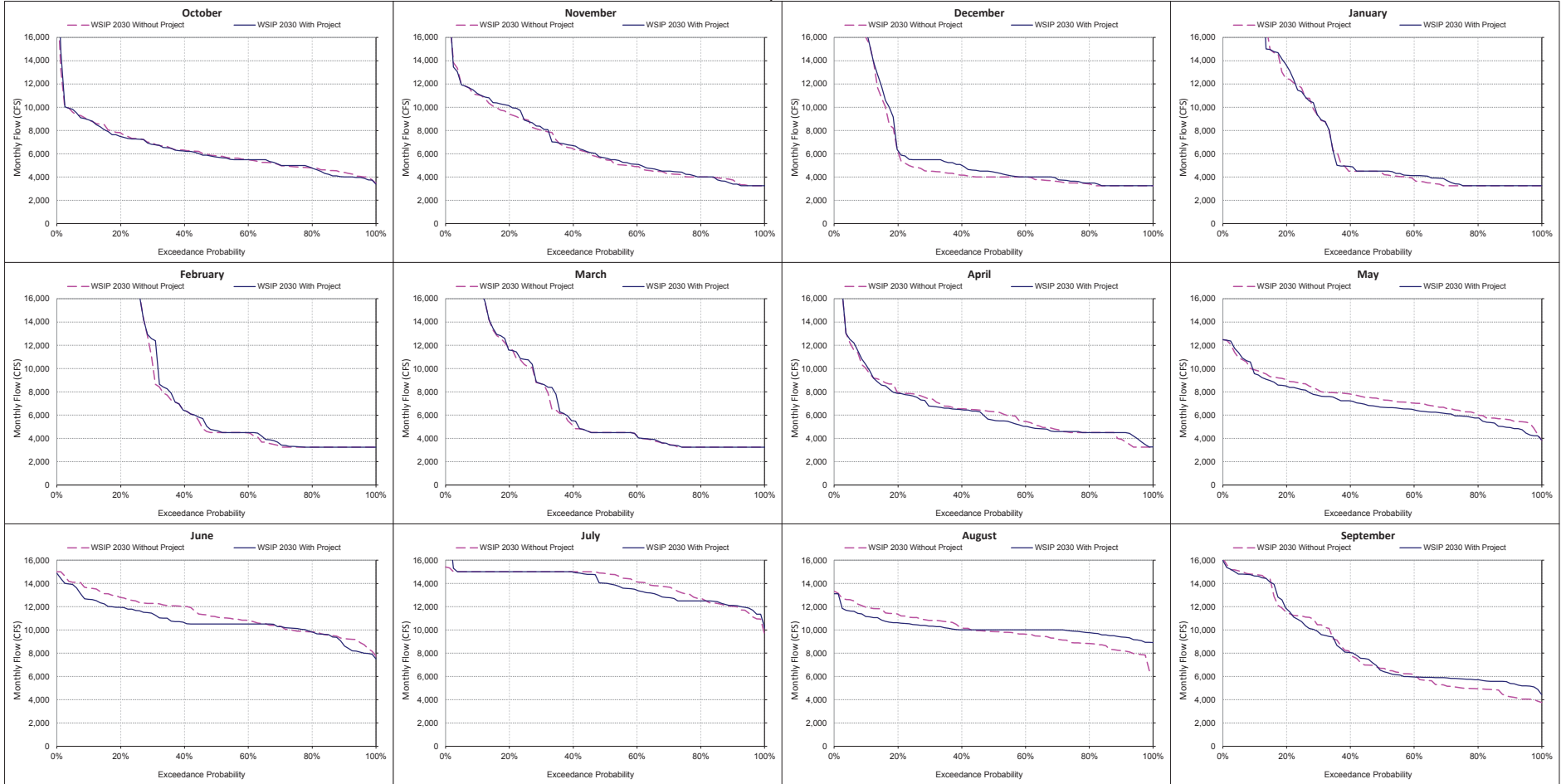
Percent Exceedance Probability (%)	March			
	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)
0.0%	29,614	29,614	0	0.0%
1.2%	29,120	29,120	0	0.0%
2.5%	29,087	29,087	0	0.0%
3.7%	28,884	28,884	0	0.0%
4.9%	28,833	28,833	0	0.0%
6.2%	28,730	28,730	0	0.0%
7.4%	28,695	28,712	16	0.1%
8.6%	28,687	28,686	-1	-0.0%
9.9%	28,614	28,687	73	0.3%
11.1%	28,601	28,614	13	0.0%
12.3%	28,593	28,601	8	0.0%
13.6%	28,326	28,586	240	0.8%
14.8%	28,263	28,377	114	0.4%
16.0%	28,241	28,326	86	0.3%
17.3%	28,215	28,241	26	0.1%
18.5%	28,149	28,215	66	0.2%
19.8%	28,138	28,149	11	0.0%
21.0%	28,129	28,138	9	0.0%
22.2%	28,086	28,129	42	0.2%
23.5%	27,986	28,109	123	0.4%
24.7%	27,959	28,086	127	0.5%
25.9%	27,936	28,002	66	0.2%
27.2%	27,905	27,974	68	0.2%
28.4%	27,896	27,936	40	0.1%
29.6%	27,773	27,896	123	0.4%
30.9%	27,760	27,773	13	0.0%
32.1%	27,728	27,760	32	0.1%
33.3%	27,726	27,728	2	0.0%
34.6%	27,691	27,726	34	0.1%
35.8%	27,674	27,691	18	0.1%
37.0%	27,631	27,674	42	0.2%
38.3%	27,631	27,631	0	0.0%
39.5%	27,565	27,631	66	0.2%
40.7%	27,546	27,601	55	0.2%
42.0%	27,530	27,546	15	0.1%
43.2%	27,527	27,527	0	0.0%
44.4%	27,481	27,481	0	0.0%
45.7%	27,430	27,473	43	0.2%
46.9%	27,374	27,430	56	0.2%
48.1%	27,359	27,374	15	0.1%
49.4%	27,208	27,359	151	0.5%
50.6%	27,086	27,320	234	0.9%
51.9%	26,972	27,086	114	0.4%
53.1%	26,919	27,014	95	0.4%
54.3%	26,904	26,955	51	0.2%
55.6%	26,872	26,823	-51	-0.2%
56.8%	26,584	26,859	274	1.0%
58.0%	26,550	26,614	64	0.2%
59.3%	26,531	26,584	54	0.2%
60.5%	26,506	26,482	-23	-0.1%
61.7%	26,470	26,470	0	0.0%
63.0%	26,220	26,424	203	0.8%
64.2%	26,122	26,264	143	0.5%
65.4%	26,101	26,072	-28	-0.1%
66.7%	26,082	26,013	-69	-0.3%
67.9%	25,796	25,907	111	0.4%
69.1%	25,444	25,543	99	0.4%
70.4%	25,283	25,444	161	0.6%
71.6%	25,278	25,433	155	0.6%
72.8%	24,915	25,408	493	2.0%
74.1%	24,819	25,283	464	1.9%
75.3%	24,816	25,123	307	1.2%
76.5%	24,813	24,815	102	0.4%
77.8%	24,813	24,877	64	0.3%
79.0%	24,813	24,819	5	0.0%
80.2%	24,690	24,816	126	0.5%
81.5%	24,394	24,813	420	1.7%
82.7%	24,362	24,813	452	1.9%
84.0%	24,222	24,813	591	2.4%
85.2%	24,205	24,521	316	1.3%
86.4%	23,989	24,247	258	1.1%
87.7%	23,917	24,194	277	1.2%
88.9%	23,903	24,141	238	1.0%
90.1%	23,824	24,036	212	0.9%
91.4%	23,322	23,322	0	0.0%
92.6%	23,300	23,832	532	2.3%
93.8%	22,906	23,777	872	3.8%
95.1%	22,854	22,843	-11	-0.1%
96.3%	21,663	22,577	914	4.2%
97.5%	20,735	21,491	757	3.6%
98.8%	19,669	19,867	198	1.0%
100.0%	17,062	18,772	1,710	10.0%

Percent Exceedance Probability (%)	April			
	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)
0.0%	30,000	30,000	0	0.0%
1.2%	30,000	30,000	0	0.0%
2.5%	30,000	30,000	0	0.0%
3.7%	30,000	30,000	0	0.0%
4.9%	30,000	30,000	0	0.0%
6.2%	29,974	30,000	26	0.1%
7.4%	29,961	29,974	13	0.0%
8.6%	29,929	29,961	32	0.1%
9.9%	29,921	29,877	-44	-0.1%
11.1%	29,806	29,738	-68	-0.2%
12.3%	29,802	29,699	-102	-0.3%
13.6%	29,796	29,686	-110	-0.4%
14.8%	29,738	29,600	-138	-0.5%
16.0%	29,686	29,588	-99	-0.3%
17.3%	29,613	29,587	-26	-0.1%
18.5%	29,588	29,512	-76	-0.3%
19.8%	29,581	29,493	-88	-0.3%
21.0%	29,493	29,472	-21	-0.1%
22.2%	29,442	29,454	12	0.0%
23.5%	29,433	29,442	9	0.0%
24.7%	29,399	29,399	0	0.0%
25.9%	29,206	29,358	151	0.5%
27.2%	29,202	29,206	4	0.0%
28.4%	29,150	29,202	43	0.1%
29.6%	29,156	29,168	12	0.0%
30.9%	29,107	29,156	49	0.2%
32.1%	29,071	29,119	49	0.2%
33.3%	29,941	29,098	-157	-0.5%
34.6%	29,922	29,065	-142	-0.5%
35.8%	29,876	29,961	86	0.3%
37.0%	28,871	28,933	62	0.2%
38.3%	28,792	28,922	130	0.5%
39.5%	28,744	28,876	131	0.5%
40.7%	28,675	28,871	196	0.7%
42.0%	28,628	28,821	243	0.7%
43.2%	28,617	28,744	127	0.4%
44.4%	28,604	28,723	119	0.4%
45.7%	28,562	28,691	129	0.5%
46.9%	28,561	28,678	116	0.4%
48.1%	28,553	28,623	70	0.2%
49.4%	28,506	28,608	100	0.4%
50.6%	28,502	28,561	59	0.2%
51.9%	28,471	28,506	35	0.1%
53.1%	28,374	28,374	0	0.0%
54.3%	28,243	28,301	58	0.2%
55.6%	28,219	28,277	58	0.2%
56.8%	28,171	28,219	49	0.2%
58.0%	28,133	28,219	86	0.3%
59.3%	28,098	28,148	50	0.2%
60.5%	28,035	28,098	63	0.2%
61.7%	27,949	28,044	95	0.3%
63.0%	27,917	28,035	118	0.4%
64.2%	27,880	27,949	69	0.2%
65.4%	27,771	27,880	109	0.4%
66.7%	27,734	27,774	40	0.1%
67.9%	27,516	27,744	228	0.8%
69.1%	27,512	27,413	-99	-0.4%
70.4%	27,298	27,315	17	0.1%
71.6%	27,278	27,156	-122	-0.4%
72.8%	27,035	27,063	28	0.1%
74.1%	26,865	27,059	194	0.7%
75.3%	26,856	27,042	186	0.7%
76.5%	26,807	26,865	58	0.2%
77.8%	26,553	26,688	136	0.5%
79.0%	26,351	26,317	-33	-0.1%
80.2%	26,019	24,954	-65	-0.3%
81.5%	24,925	24,925	0	0.0%
82.7%	24,612	24,885	274	1.1%

**Table SW-09-b**  
Shasta Lake, End of Month Area  
Probability of Exceedance

June						July						August						September					
Percent Exceedance Probability (%)	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)		Percent Exceedance Probability (%)	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)		Percent Exceedance Probability (%)	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)		Percent Exceedance Probability (%)	WSIP 2030 Without Project End of Month Area (ACRE)	WSIP 2030 With Project End of Month Area (ACRE)	Absolute Difference (ACRE)	Relative Difference (%)	
0.0%	29,776	29,606	-171	-0.6%		0.0%	28,275	28,261	-13	0.0%		0.0%	26,331	26,331	0	0.0%		0.0%	24,728	24,728	0	0.0%	
1.2%	29,776	29,681	-95	-1.0%		1.2%	28,275	27,930	-345	-1.2%		1.2%	26,331	26,331	0	0.0%		1.2%	24,728	24,728	0	0.0%	
2.5%	29,776	29,443	-334	-1.1%		2.5%	27,929	27,349	-580	-2.1%		2.5%	26,331	26,088	-243	-0.9%		2.5%	24,728	24,728	0	0.0%	
3.7%	29,776	29,422	-354	-1.2%		3.7%	27,072	27,378	306	0.8%		3.7%	25,873	26,086	213	0.8%		3.7%	24,537	24,728	191	0.8%	
4.9%	29,653	29,196	-457	-1.5%		4.9%	27,053	27,139	86	0.3%		4.9%	25,482	25,935	452	1.8%		4.9%	24,499	24,688	189	0.8%	
6.2%	29,023	29,098	75	0.2%		6.2%	27,043	26,889	-153	-0.6%		6.2%	25,327	25,353	26	0.1%		6.2%	24,129	24,612	483	2.0%	
7.4%	28,996	28,968	-28	-0.4%		7.4%	26,873	26,963	90	0.3%		7.4%	25,250	25,294	44	0.2%		7.4%	24,073	24,358	285	1.2%	
8.6%	28,920	28,859	-61	-0.2%		8.6%	26,832	26,751	-81	-0.3%		8.6%	24,993	25,153	160	0.6%		8.6%	23,491	24,261	770	3.2%	
9.9%	28,806	28,680	-126	-0.4%		9.9%	26,652	26,724	71	0.3%		9.9%	24,912	25,140	229	0.9%		9.9%	23,346	23,842	495	2.1%	
11.1%	28,736	28,678	-58	-0.2%		11.1%	26,605	26,661	57	0.2%		11.1%	24,727	25,125	398	1.6%		11.1%	23,236	23,817	491	2.1%	
12.3%	28,624	28,639	15	0.1%		12.3%	26,252	26,417	165	0.6%		12.3%	24,726	24,973	248	1.0%		12.3%	23,218	23,659	442	1.9%	
13.8%	28,532	28,618	86	0.3%		13.8%	26,232	26,383	151	0.6%		13.8%	24,685	24,875	190	0.8%		13.8%	22,948	23,371	422	1.8%	
14.8%	28,513	28,612	99	0.3%		14.8%	26,076	26,291	216	0.8%		14.8%	24,648	24,817	169	0.7%		14.8%	22,868	23,272	385	1.7%	
16.0%	28,485	28,548	63	0.1%		16.0%	26,050	26,078	28	0.1%		16.0%	24,609	24,802	193	0.8%		16.0%	22,754	23,184	430	1.9%	
17.3%	28,371	28,465	94	0.3%		17.3%	25,896	26,048	152	0.6%		17.3%	24,456	24,597	140	0.6%		17.3%	22,742	22,818	76	0.3%	
18.5%	28,284	28,447	162	0.6%		18.5%	25,743	26,045	302	1.2%		18.5%	24,411	24,572	161	0.7%		18.5%	22,724	22,720	-5	0.0%	
19.8%	28,266	28,380	113	0.4%		19.8%	25,703	26,002	299	1.2%		19.8%	24,351	24,537	186	0.8%		19.8%	22,722	22,697	-25	-0.1%	
21.0%	28,143	28,372	229	0.8%		21.0%	25,625	25,821	195	0.8%		21.0%	24,333	24,317	-16	-0.1%		21.0%	22,713	22,696	-17	-0.1%	
22.2%	28,133	28,348	215	0.8%		22.2%	25,590	25,707	117	0.5%		22.2%	24,275	24,278	2	0.0%		22.2%	22,628	22,628	-42	-0.2%	
23.5%	28,079	28,293	214	0.8%		23.5%	25,492	25,681	189	0.7%		23.5%	24,218	24,231	13	0.1%		23.5%	22,508	22,345	-164	-0.7%	
24.7%	28,048	28,286	238	0.8%		24.7%	25,470	25,646	176	0.7%		24.7%	24,007	24,148	141	0.6%		24.7%	22,429	22,277	-152	-0.7%	
25.9%	28,031	28,279	248	0.9%		25.9%	25,430	25,632	202	0.8%		25.9%	23,980	24,130	151	0.6%		25.9%	22,373	22,206	-167	-0.7%	
27.2%	27,978	28,233	255	0.9%		27.2%	25,367	25,620	253	1.0%		27.2%	23,786	24,098	312	1.3%		27.2%	21,978	22,157	180	0.8%	
28.4%	27,941	28,180	240	0.9%		28.4%	25,268	25,493	225	0.9%		28.4%	23,673	23,882	210	0.9%		28.4%	21,902	22,108	206	0.9%	
29.6%	27,884	28,142	258	0.9%		29.6%	24,930	25,200	270	1.1%		29.6%	23,366	23,798	432	1.8%		29.6%	21,823	22,055	232	1.1%	
30.9%	27,833	28,132	299	1.1%		30.9%	24,858	25,378	520	2.1%		30.9%	23,254	23,659	406	1.7%		30.9%	21,632	22,055	423	2.0%	
32.1%	27,633	28,129	497	1.8%		32.1%	24,850	25,162	312	1.3%		32.1%	22,928	23,498	570	2.5%		32.1%	21,629	22,069	440	2.0%	
33.3%	27,538	27,975	436	1.6%		33.3%	24,577	25,115	539	2.2%		33.3%	22,805	23,276	471	2.1%		33.3%	21,600	22,052	452	2.1%	
34.6%	27,487	27,969	482	1.8%		34.6%	24,516	25,033	517	2.1%		34.6%	22,720	23,235	515	2.3%		34.6%	21,549	21,979	430	2.0%	
35.8%	27,436	27,903	466	1.7%		35.8%	24,201	24,845	644	2.7%		35.8%	22,691	23,028	338	1.5%		35.8%	21,481	21,923	441	2.1%	
37.0%	27,261	27,788	527	1.9%		37.0%	23,924	24,645	720	3.0%		37.0%	22,403	23,001	598	2.7%		37.0%	21,434	21,897	463	2.2%	
38.3%	27,144	27,695	552	2.0%		38.3%	23,782	24,596	814	3.4%		38.3%	22,163	22,721	559	2.5%		38.3%	21,352	21,871	520	2.4%	
39.5%	26,949	27,516	567	2.1%		39.5%	23,690	24,399	708	3.0%		39.5%	22,021	22,712	691	3.1%		39.5%	21,236	21,865	629	3.0%	
40.7%	26,918	27,405	487	1.8%		40.7%	23,659	24,301	642	2.7%		40.7%	21,895	22,643	748	3.4%		40.7%	21,215	21,853	639	3.0%	
42.0%	26,915	27,270	355	1.3%		42.0%	23,654	24,213	560	2.4%		42.0%	21,753	22,628	875	4.0%		42.0%	21,121	21,786	665	3.1%	
43.2%	26,804	27,260	456	1.7%		43.2%	23,643	24,179	536	2.3%		43.2%	21,727	22,538	810	3.7%		43.2%	21,098	21,887	789	3.8%	
44.4%	26,636	27,240	604	2.3%		44.4%	23,586	24,165	579	2.5%		44.4%	21,705	22,513	808	3.7%		44.4%	21,072	21,422	350	2.1%	
45.7%	26,449	27,164	715	2.7%		45.7%	23,553	24,116	563	2.4%		45.7%	21,698	22,412	714	3.3%		45.7%	21,026	21,221	195	1.0%	
46.9%	26,340	27,154	814	3.1%		46.9%	23,473	24,051	578	2.5%		46.9%	21,689	22,371	682	3.2%		46.9%	21,052	21,311	259	1.2%	
48.1%	26,310	27,074	763	2.9%		48.1%	23,217	23,838	621	2.7%		48.1%	21,513	22,335	822	3.8%		48.1%	21,032	21,291	259	1.2%	
49.4%	26,255	27,021	766	2.9%		49.4%	23,122	23,794	672	2.9%		49.4%	21,505	22,220	715	3.3%		49.4%	21,028	21,288	260	1.2%	
50.6%	26,145	27,010	865	3.3%		50.6%	23,056	23,765	709	3.1%		50.6%	21,463	22,168	705	3.3%		50.6%	21,024	21,234	210	1.0%	
51.9%	25,968	26,948	980	3.8%		51.9%	23,005	23,659	654	2.8%		51.9%	21,423	21,958	535	2.5%		51.9%	21,020	21,256	236	1.1%	
53.1%	25,941	26,689	749	2.9%		53.1%	22,995	23,659	664	2.9%		53.1%	21,401	21,863	463	2.2%		53.1%	21,019	21,119	100	0.5%	
54.3%	25,827	26,655	829	3.2%		54.3%	22,990	23,659	669	2.9%		54.3%	21,368	21,805	437	2.0%		54.3%	21,016	21,087	71	0.3%	
55.6%	25,609	26,523	914	3.6%		55.6%	22,845	23,403	558	2.4%		55.6%	21,244	21,609	364	1.7%		55.6%	21,012	21,071	59	0.3%	
56.8%	25,732	26,479	686	2.7%		56.8%	22,707	23,347	640	2.8%		56.8%	21,213	21,557	344	1.6%		56.8%	21,009	21,058	49	0.2%	
58.0%	25,767	26,449	682	2.6%		58.0%	22,683	23,331	648	2.9%		58.0%	21,207	21,270	63	0.3%		58.0%	21,009	21,023	14	0.1%	
59.3%	25,679	26,405	726	2.8%		59.3%	22,624	23,014	390	1.7%		59.3%	21,089	21,263	174	0.8%		59.3%	21,025	21,046	21	0.1%	
60.5%	25,546	26,252	706	2.8%		60.5%	22,344	22,960	616	2.8%		60.5%	20,975	21,149	174	0.8%		60.5%	21,025	21,046	21	0.1%	
61.7%	25,427	26,135	707	2.8%		61.7%	22,256	22,708	451	2.0%		61.7%	20,766	21,090	325	1.6%		61.7%	21,025	21,046	21	0.1%	
63.0%	25,394	26,099	706	2.8%		63.0%	22,247	22,647	399	1.8%		63.0%	20,398	21,061	664	3.3%		63.0%	21,025	21,046	21	0.1%	
64.2%	25,354	25,663	308	1.2%		64.2%	22,200	22,407	207	0.9%		64.2%	20,361	20,943	582	2.9%		64.2%	21,025	21,046	21	0.1%	
65.4%	25,185	25,476	291	1.2%		65.4%	22,172	22,255	83	0.4%		65.4%	20,283	20,902	620	3.1%		65.4%	21,025	21,046	21	0.1%	
66.7%	25,088	25,406	318	1.3%		66.7%	21,860	22,066	206	0.9%		66.7%	20,238	20,776	538	2.7%		66.7%	21,025	21,046	21	0.1%	
67.9%	25,087	25,073	-14	-0.1%		67.9%	21,816	21,903	86	0.4%		67.9%	20,229	20,649	420	2.1%		67.9%	21,025	21,046	21	0.1%	
69.1%	24,850	25,065	215	0.9%		69.1%	21,680	21,875	195	0.9%		69.1%	19,947	20,573	626	3.1%		69.1%	21,025	21,046	21	0.1%	
70.4%	24,733	24,874	141	0.6%		70.4%	21,585	21,868	283	1.3%		70.4%	19,937	20,513	576	2.9%		70.4%	21,025	21,046	21	0.1%	
71.6%	24,641	24,842	202	0.8%		71.6%	21,524	21,849	325	1.5%													

**Figure SW-10-b**  
**Sacramento River below Keswick Reservoir, Monthly Flow**  
**Probability of Exceedance**



**Table SW-10-b**  
Sacramento River below Keswick Reservoir, Monthly Flow  
Probability of Exceedance

October					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	20,482	23,314	2,832	13.8%	
1.2%	13,269	14,718	1,448	10.9%	
2.5%	10,011	10,032	21	0.2%	
3.7%	9,944	9,929	-15	-0.1%	
4.9%	9,583	9,836	252	2.6%	
6.2%	9,329	9,519	190	2.0%	
7.4%	9,298	9,097	-201	-2.2%	
8.6%	9,112	9,036	-76	-0.8%	
9.9%	8,982	8,928	-54	-0.7%	
11.1%	8,782	8,795	13	0.1%	
12.3%	8,589	8,511	-78	-0.9%	
13.6%	8,536	8,331	-204	-2.4%	
14.8%	8,502	8,060	-442	-5.2%	
16.0%	8,033	7,913	-120	-1.5%	
17.3%	7,987	7,637	-350	-4.4%	
18.5%	7,832	7,634	-199	-2.5%	
19.8%	7,819	7,492	-327	-4.2%	
21.0%	7,613	7,414	-199	-2.6%	
22.2%	7,490	7,320	-170	-2.3%	
23.5%	7,321	7,260	-61	-0.8%	
24.7%	7,305	7,265	-40	-0.5%	
25.9%	7,302	7,253	-49	-0.7%	
27.2%	7,219	7,217	-2	0.0%	
28.4%	6,998	6,926	-71	-1.0%	
29.6%	6,989	6,821	-168	-2.4%	
30.9%	6,797	6,778	-19	-0.3%	
32.1%	6,713	6,713	0	0.0%	
33.3%	6,656	6,550	-106	-1.6%	
34.6%	6,622	6,528	-93	-1.4%	
35.8%	6,470	6,462	-7	-0.1%	
37.0%	6,349	6,322	-27	-0.4%	
38.3%	6,327	6,264	-63	-1.0%	
39.5%	6,324	6,244	-80	-1.3%	
40.7%	6,266	6,204	-62	-1.0%	
42.0%	6,262	6,193	-68	-1.1%	
43.2%	6,226	6,151	-75	-1.2%	
44.4%	6,206	6,016	-190	-3.1%	
45.7%	6,026	5,885	-141	-2.3%	
46.9%	5,990	5,878	-112	-1.9%	
48.1%	5,865	5,812	-52	-0.9%	
49.4%	5,842	5,737	-104	-1.8%	
50.6%	5,785	5,691	-94	-1.6%	
51.9%	5,778	5,645	-132	-2.3%	
53.1%	5,682	5,539	-142	-2.5%	
54.3%	5,635	5,512	-123	-2.2%	
55.6%	5,627	5,500	-127	-2.3%	
56.8%	5,623	5,500	-123	-2.2%	
58.0%	5,541	5,500	-41	-0.7%	
59.3%	5,537	5,500	-37	-0.7%	
60.5%	5,467	5,500	33	0.6%	
61.7%	5,415	5,500	85	1.6%	
63.0%	5,343	5,500	157	2.9%	
64.2%	5,262	5,500	238	4.5%	
65.4%	5,260	5,484	224	4.3%	
66.7%	5,244	5,326	82	1.6%	
67.9%	5,200	5,272	72	1.4%	
69.1%	5,101	5,118	17	0.3%	
70.4%	4,967	5,000	33	0.7%	
71.6%	4,965	5,000	34	0.7%	
72.8%	4,923	5,000	77	1.6%	
74.1%	4,883	5,000	117	2.4%	
75.3%	4,863	5,000	137	2.8%	
76.5%	4,832	5,000	168	3.5%	
77.8%	4,824	4,979	155	3.2%	
79.0%	4,797	4,879	81	1.7%	
80.2%	4,771	4,737	-34	-0.7%	
81.5%	4,766	4,625	-141	-3.0%	
82.7%	4,625	4,496	-129	-2.8%	
84.0%	4,619	4,308	-313	-6.8%	
85.2%	4,554	4,228	-326	-7.2%	
86.4%	4,553	4,108	-445	-9.8%	
87.7%	4,540	4,104	-436	-9.6%	
88.9%	4,414	4,028	-386	-8.7%	
90.1%	4,388	4,010	-379	-8.6%	
91.4%	4,313	4,000	-313	-7.3%	
92.6%	4,251	4,000	-251	-5.9%	
93.8%	4,077	3,964	-113	-2.8%	
95.1%	4,055	3,951	-104	-2.6%	
96.3%	4,000	3,899	-101	-2.5%	
97.5%	4,000	3,762	-238	-6.0%	
98.8%	3,748	3,740	-8	-0.2%	
100.0%	3,468	3,390	-78	-2.2%	

November					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	21,009	22,765	1,756	8.4%	
1.2%	17,899	18,693	795	4.4%	
2.5%	13,829	13,451	-378	-2.7%	
3.7%	13,358	13,037	-321	-2.4%	
4.9%	11,945	11,922	-23	-0.2%	
6.2%	11,815	11,815	0	0.0%	
7.4%	11,658	11,658	0	0.0%	
8.6%	11,147	11,496	349	3.1%	
9.9%	11,072	11,200	128	1.2%	
11.1%	11,009	11,022	13	0.1%	
12.3%	10,751	10,873	123	1.1%	
13.6%	10,352	10,800	449	4.3%	
14.8%	10,108	10,394	287	2.8%	
16.0%	9,953	10,374	422	4.2%	
17.3%	9,742	10,295	553	5.7%	
18.5%	9,683	10,218	535	5.5%	
19.8%	9,437	10,158	721	7.6%	
21.0%	9,321	9,940	619	6.6%	
22.2%	9,202	9,912	710	7.7%	
23.5%	9,022	9,715	693	7.7%	
24.7%	8,974	8,893	-81	-0.9%	
25.9%	8,893	8,778	-115	-1.3%	
27.2%	8,170	8,658	388	4.7%	
28.4%	8,145	8,389	245	3.0%	
29.6%	8,021	8,047	26	0.3%	
30.9%	7,986	8,104	118	1.5%	
32.1%	7,882	8,068	186	2.4%	
33.3%	7,830	7,030	-799	-10.2%	
34.6%	7,210	7,009	-201	-2.8%	
35.8%	6,848	6,899	51	0.7%	
37.0%	6,646	6,869	223	3.4%	
38.3%	6,545	6,767	222	3.4%	
39.5%	6,487	6,716	229	3.5%	
40.7%	6,326	6,646	320	5.1%	
42.0%	6,306	6,418	111	1.8%	
43.2%	6,294	6,221	-73	-1.2%	
44.4%	6,138	6,181	43	0.7%	
45.7%	5,880	6,079	199	3.4%	
46.9%	5,789	6,029	241	4.2%	
48.1%	5,672	5,731	59	1.0%	
49.4%	5,551	5,672	121	2.2%	
50.6%	5,507	5,460	-47	-0.9%	
51.9%	5,429	5,500	71	1.3%	
53.1%	5,087	5,500	413	8.1%	
54.3%	5,061	5,415	354	7.0%	
55.6%	5,036	5,255	219	4.4%	
56.8%	5,002	5,231	229	4.6%	
58.0%	4,980	5,122	142	2.9%	
59.3%	4,906	5,108	202	4.1%	
60.5%	4,892	5,081	188	3.8%	
61.7%	4,644	4,950	306	6.6%	
63.0%	4,579	4,794	215	4.7%	
64.2%	4,544	4,726	182	4.0%	
65.4%	4,489	4,688	197	4.4%	
66.7%	4,485	4,594	109	2.4%	
67.9%	4,473	4,516	43	1.0%	
69.1%	4,326	4,500	174	4.0%	
70.4%	4,279	4,500	221	5.2%	
71.6%	4,242	4,457	215	5.1%	
72.8%	4,236	4,434	198	4.7%	
74.1%	4,204	4,412	208	5.0%	
75.3%	4,006	4,242	236	5.9%	
76.5%	4,000	4,204	204	5.1%	
77.8%	4,000	4,126	126	3.1%	
79.0%	4,000	4,000	0	0.0%	
80.2%	4,000	4,000	0	0.0%	
81.5%	4,000	4,000	0	0.0%	
82.7%	4,000	4,000	0	0.0%	
84.0%	3,971	4,000	29	0.7%	
85.2%	3,931	3,767	-164	-4.2%	
86.4%	3,885	3,670	-215	-5.5%	
87.7%	3,854	3,644	-209	-5.4%	
88.9%	3,823	3,498	-325	-8.5%	
90.1%	3,739	3,387	-352	-9.4%	
91.4%	3,541	3,380	-161	-4.5%	
92.6%	3,334	3,261	-73	-2.2%	
93.8%	3,321	3,250	-71	-2.1%	
95.1%	3,250	3,250	0	0.0%	
96.3%	3,250	3,250	0	0.0%	
97.5%	3,250	3,250	0	0.0%	
98.8%	3,250	3,250	0	0.0%	
100.0%	3,250	3,250	0	0.0%	

December					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	30,077	30,100	23	0.1%	
1.2%	26,650	27,397	747	2.8%	
2.5%	24,364	24,364	0	0.0%	
3.7%	24,085	23,634	-451	-1.9%	
4.9%	23,634	21,894	-1,740	-7.4%	
6.2%	18,545	18,545	0	0.0%	
7.4%	18,097	17,296	-802	-4.4%	
8.6%	17,123	17,222	99	0.6%	
9.9%	16,028	16,763	735	4.7%	
11.1%	15,388	15,022	-366	-2.4%	
12.3%	13,886	13,886	0	0.0%	
13.6%	11,696	12,809	1,113	9.5%	
14.8%	10,819	11,813	994	9.2%	
16.0%	10,043	10,576	533	5.3%	
17.3%	10,478	10,016	-462	-4.4%	
18.5%	8,210	9,167	957	11.7%	
19.8%	6,353	6,353	0	0.0%	
21.0%	5,365	5,888	523	9.7%	
22.2%	5,190	5,800	610	11.8%	
23.5%	4,962	4,518	-444	-9.0%	
24.7%	4,857	5,500	643	13.2%	
25.9%	4,846	5,500	654	13.5%	
27.2%	4,738	5,500	762	16.1%	
28.4%	4,534	5,500	966	21.3%	
29.6%	4,498	5,222	724	16.1%	
30.9%	4,492	5,500	1,008	22.4%	
32.1%	4,461	5,500	1,039	23.3%	
33.3%	4,447	5,500	1,053	23.7%	
34.6%	4,376	5,338	962	22.0%	
35.8%	4,334	5,247	913	21.1%	
37.0%	4,327	5,242	915	21.1%	
38.3%	4,222	5,084	862	20.4%	
39.5%	4,169	5,082	913	21.9%	
40.7%	4,160	4,902	742	17.8%	
42.0%	4,087	4,640	553	13.5%	
43.2%	4,087	4,609	522	12.8%	
44.4%	4,000	4,572	572	14.3%	
45.7%	4,000	4,500	500	12.5%	
46.9%	4,000	4,500	500	12.5%	
48.1%	4,000	4,500	500	12.5%	
49.4%	4,000	4,466	466	11.7%	
50.6%	4,000	4,395	395	9.9%	
51.9%	4,000	4,323	323	8.1%	
53.1%	4,087	4,242	155	3.8%	
54.3%	4,000	4,160	160	4.0%	
55.6%	4,000	4,097	97	2.4%	
56.8%	4,000	4,055	55	1.4%	
58.0%	4,000	4,004	4	0.1%	
59.3%	4,000	4,000	0	0.0%	
60.5%	4,000	4,000	0	0.0%	
61.7%	3,959	4,000	41	1.0%	
63.0%	3,781	4,000	219	5.8%	
64.2%	3,764	4,000	236	6.3%	
65.4%	3,744	4,000	256	6.8%	
66.7%	3,707	4,000	293	7.9%	
67.9%	3,690	4,000	310	8.4%	</

Table SW-10-b  
 Sacramento River below Keswick Reservoir, Monthly Flow  
 Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	53,417	53,417	0	0.0%	
1.2%	50,275	50,275	0	0.0%	
2.5%	39,207	39,773	566	1.4%	
3.7%	38,056	39,207	1,151	3.0%	
4.9%	38,051	38,056	5	0.0%	
6.2%	36,392	36,392	0	0.0%	
7.4%	34,350	34,350	0	0.0%	
8.6%	32,084	32,084	0	0.0%	
9.9%	30,245	30,245	0	0.0%	
11.1%	29,446	30,113	667	2.3%	
12.3%	27,865	29,446	1,581	5.7%	
13.6%	26,990	27,865	875	3.2%	
14.8%	26,644	26,990	346	1.3%	
16.0%	26,311	26,311	0	0.0%	
17.3%	25,626	26,068	442	1.7%	
18.5%	24,390	24,390	0	0.0%	
19.8%	23,076	23,076	0	0.0%	
21.0%	21,643	21,643	0	0.0%	
22.2%	20,242	20,242	0	0.0%	
23.5%	20,206	20,206	0	0.0%	
24.7%	19,346	19,346	0	0.0%	
25.9%	16,279	16,279	0	0.0%	
27.2%	14,250	14,250	0	0.0%	
28.4%	12,789	12,941	151	1.2%	
29.6%	11,088	12,583	1,494	13.5%	
30.9%	8,650	12,384	3,734	43.2%	
32.1%	8,432	8,650	218	2.6%	
33.3%	7,909	8,432	523	6.6%	
34.6%	7,717	7,815	98	1.3%	
35.8%	7,294	7,909	615	8.4%	
37.0%	7,118	7,117	-1	0.0%	
38.3%	6,961	6,961	0	0.0%	
39.5%	6,435	6,435	0	0.0%	
40.7%	6,324	6,324	0	0.0%	
42.0%	6,092	6,092	0	0.0%	
43.2%	6,001	4,769	-1,232	-20.5%	
44.4%	5,527	5,826	299	5.4%	
45.7%	4,852	5,703	851	17.5%	
46.9%	4,595	5,055	460	10.0%	
48.1%	4,500	4,772	272	6.0%	
49.4%	4,500	4,714	214	4.8%	
50.6%	4,500	4,625	125	2.8%	
51.9%	4,500	4,500	0	0.0%	
53.1%	4,500	4,500	0	0.0%	
54.3%	4,500	4,500	0	0.0%	
55.6%	4,500	4,500	0	0.0%	
56.8%	4,500	4,500	0	0.0%	
58.0%	4,500	4,500	0	0.0%	
59.3%	4,491	4,500	9	0.2%	
60.5%	4,451	4,500	49	1.1%	
61.7%	4,207	4,491	285	6.8%	
63.0%	4,107	4,451	344	8.4%	
64.2%	3,679	4,207	528	14.3%	
65.4%	3,675	3,901	226	6.1%	
66.7%	3,560	3,875	315	8.9%	
67.9%	3,488	3,807	319	9.1%	
69.1%	3,414	3,679	265	7.8%	
70.4%	3,250	3,414	164	5.0%	
71.6%	3,250	3,413	163	5.0%	
72.8%	3,250	3,313	63	1.9%	
74.1%	3,250	3,306	56	1.7%	
75.3%	3,250	3,297	47	1.5%	
76.5%	3,250	3,258	8	0.2%	
77.8%	3,250	3,250	0	0.0%	
79.0%	3,250	3,250	0	0.0%	
80.2%	3,250	3,250	0	0.0%	
81.5%	3,250	3,250	0	0.0%	
82.7%	3,250	3,250	0	0.0%	
84.0%	3,250	3,250	0	0.0%	
85.2%	3,250	3,250	0	0.0%	
86.4%	3,250	3,250	0	0.0%	
87.7%	3,250	3,250	0	0.0%	
88.9%	3,250	3,250	0	0.0%	
90.1%	3,250	3,250	0	0.0%	
91.4%	3,250	3,250	0	0.0%	
92.6%	3,250	3,250	0	0.0%	
93.8%	3,250	3,250	0	0.0%	
95.1%	3,250	3,250	0	0.0%	
96.3%	3,250	3,250	0	0.0%	
97.5%	3,250	3,250	0	0.0%	
98.8%	3,250	3,250	0	0.0%	
100.0%	3,250	3,250	0	0.0%	

March					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	55,765	55,765	0	0.0%	
1.2%	49,855	49,855	0	0.0%	
2.5%	37,105	37,105	0	0.0%	
3.7%	36,029	36,029	0	0.0%	
4.9%	26,743	25,396	-1,347	-5.0%	
6.2%	23,420	23,420	0	0.0%	
7.4%	22,946	22,946	0	0.0%	
8.6%	21,803	21,803	0	0.0%	
9.9%	20,393	20,393	0	0.0%	
11.1%	16,622	16,622	0	0.0%	
12.3%	15,749	15,749	0	0.0%	
13.6%	14,212	14,212	0	0.0%	
14.8%	13,341	13,476	135	1.0%	
16.0%	12,837	12,851	14	0.1%	
17.3%	12,606	12,837	231	1.8%	
18.5%	12,239	12,606	366	3.0%	
19.8%	11,794	11,591	-203	-1.7%	
21.0%	11,591	11,650	59	0.5%	
22.2%	10,858	11,442	584	5.4%	
23.5%	10,757	10,858	100	0.9%	
24.7%	10,358	10,791	434	4.2%	
25.9%	10,151	10,757	606	6.0%	
27.2%	10,103	10,388	285	2.8%	
28.4%	8,803	8,866	63	0.7%	
29.6%	8,721	8,721	0	0.0%	
30.9%	8,622	8,622	0	0.0%	
32.1%	7,882	8,408	526	6.7%	
33.3%	6,480	8,380	1,900	29.3%	
34.6%	6,440	7,815	1,375	21.4%	
35.8%	6,142	6,285	143	2.3%	
37.0%	6,131	6,142	11	0.2%	
38.3%	5,524	5,524	0	0.0%	
39.5%	5,203	5,524	321	6.2%	
40.7%	4,830	5,481	651	13.5%	
42.0%	4,827	4,830	3	0.1%	
43.2%	4,644	4,769	125	2.7%	
44.4%	4,644	4,644	0	0.0%	
45.7%	4,500	4,500	0	0.0%	
46.9%	4,500	4,500	0	0.0%	
48.1%	4,500	4,500	0	0.0%	
49.4%	4,500	4,500	0	0.0%	
50.6%	4,500	4,500	0	0.0%	
51.9%	4,500	4,500	0	0.0%	
53.1%	4,500	4,500	0	0.0%	
54.3%	4,500	4,500	0	0.0%	
55.6%	4,500	4,500	0	0.0%	
56.8%	4,500	4,500	0	0.0%	
58.0%	4,500	4,500	0	0.0%	
59.3%	4,431	4,431	0	0.0%	
60.5%	4,048	4,048	0	0.0%	
61.7%	3,979	3,994	16	0.4%	
63.0%	3,958	3,979	20	0.5%	
64.2%	3,898	3,918	18	0.5%	
65.4%	3,768	3,898	130	3.4%	
66.7%	3,704	3,768	65	1.7%	
67.9%	3,602	3,602	0	0.0%	
69.1%	3,575	3,595	20	0.6%	
70.4%	3,455	3,422	-32	-0.9%	
71.6%	3,422	3,404	-18	-0.5%	
72.8%	3,250	3,378	128	3.9%	
74.1%	3,250	3,250	0	0.0%	
75.3%	3,250	3,250	0	0.0%	
76.5%	3,250	3,250	0	0.0%	
77.8%	3,250	3,250	0	0.0%	
79.0%	3,250	3,250	0	0.0%	
80.2%	3,250	3,250	0	0.0%	
81.5%	3,250	3,250	0	0.0%	
82.7%	3,250	3,250	0	0.0%	
84.0%	3,250	3,250	0	0.0%	
85.2%	3,250	3,250	0	0.0%	
86.4%	3,250	3,250	0	0.0%	
87.7%	3,250	3,250	0	0.0%	
88.9%	3,250	3,250	0	0.0%	
90.1%	3,250	3,250	0	0.0%	
91.4%	3,250	3,250	0	0.0%	
92.6%	3,250	3,250	0	0.0%	
93.8%	3,250	3,250	0	0.0%	
95.1%	3,250	3,250	0	0.0%	
96.3%	3,250	3,250	0	0.0%	
97.5%	3,250	3,250	0	0.0%	
98.8%	3,250	3,250	0	0.0%	
100.0%	3,250	3,250	0	0.0%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	31,315	31,315	0	0.0%	
1.2%	23,960	23,960	0	0.0%	
2.5%	16,657	16,657	0	0.0%	
3.7%	13,026	13,026	0	0.0%	
4.9%	12,204	12,502	297	2.4%	
6.2%	11,590	12,204	614	5.3%	
7.4%	11,360	11,524	164	1.4%	
8.6%	10,336	10,822	486	4.7%	
9.9%	10,045	10,348	299	2.9%	
11.1%	9,548	9,440	-98	-1.0%	
12.3%	9,186	9,186	0	0.0%	
13.6%	9,115	8,855	-259	-2.8%	
14.8%	8,977	8,572	-406	-4.5%	
16.0%	8,782	8,516	-266	-3.0%	
17.3%	8,675	8,247	-428	-4.9%	
18.5%	8,672	7,961	-711	-8.2%	
19.8%	7,961	7,871	-90	-1.1%	
21.0%	7,872	7,861	-12	-0.1%	
22.2%	7,868	7,757	-110	-1.4%	
23.5%	7,861	7,725	-136	-1.7%	
24.7%	7,830	7,651	-179	-2.3%	
25.9%	7,757	7,526	-232	-3.0%	
27.2%	7,663	7,295	-368	-4.8%	
28.4%	7,529	7,254	-275	-3.6%	
29.6%	7,394	6,777	-617	-8.4%	
30.9%	7,373	6,765	-608	-8.2%	
32.1%	7,104	6,716	-389	-5.5%	
33.3%	6,977	6,671	-306	-4.4%	
34.6%	6,774	6,608	-166	-2.5%	
35.8%	6,765	6,696	-69	-1.0%	
37.0%	6,670	6,538	-132	-2.0%	
38.3%	6,558	6,508	-51	-0.8%	
39.5%	6,552	6,483	-69	-1.1%	
40.7%	6,538	6,448	-90	-1.4%	
42.0%	6,508	6,426	-81	-1.3%	
43.2%	6,453	6,348	-105	-1.6%	
44.4%	6,466	6,336	-130	-2.0%	
45.7%	6,426	6,268	-158	-2.5%	
46.9%	6,404	6,268	-136	-2.1%	
48.1%	6,342	6,211	-131	-2.1%	
49.4%	6,307	6,201	-106	-1.7%	
50.6%	6,279	6,174	-105	-1.7%	
51.9%	6,228	6,144	-84	-1.3%	
53.1%	6,078	6,078	0	0.0%	
54.3%	5,957	5,957	0	0.0%	
55.6%	5,951	5,951	0	0.0%	
56.8%	5,920	5,920	0	0.0%	
58.0%	5,511	5,155	-356	-6.5%	
59.3%	5,477	5,053	-423	-7.7%	
60.5%	5,433	5,017	-416	-7.7%	
61.7%	5,339	4,938	-402	-7.5%	
63.0%	5,149	4,867	-282	-5.5%	
64.2%	5,074	4,839	-235	-4.6%	
65.4%	4,940	4,816	-124	-2.5%	
66.7%	4,925	4,792	-132	-2.7%	
67.9%	4,894	4,634	-260	-5.3%	
69.1%	4,801	4,600	-201	-4.2%	
70.4%	4,733	4,600	-133	-2.8%	
71.					

**Table SW-10-b**  
 Sacramento River below Keswick Reservoir, Monthly Flow  
 Probability of Exceedance

June				
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	15,000	14,879	-121	-0.8%
1.2%	14,426	14,426	-574	-3.8%
2.5%	14,650	14,010	-640	-4.4%
3.7%	14,185	13,966	-219	-1.5%
4.9%	14,103	13,909	-194	-1.4%
6.2%	14,101	13,618	-482	-3.4%
7.4%	14,076	13,111	-965	-6.9%
8.6%	13,680	12,680	-999	-7.2%
9.9%	13,598	12,439	-959	-7.1%
11.1%	13,577	12,617	-960	-7.1%
12.3%	13,520	12,517	-1,004	-7.4%
13.6%	13,298	12,343	-955	-7.2%
14.8%	13,125	12,242	-883	-6.7%
16.0%	13,113	12,020	-1,094	-8.3%
17.3%	12,986	11,989	-996	-7.7%
18.5%	12,955	11,960	-995	-7.7%
19.8%	12,803	11,942	-861	-6.7%
21.0%	12,746	11,918	-827	-6.5%
22.2%	12,622	11,796	-826	-6.5%
23.5%	12,547	11,786	-762	-6.1%
24.7%	12,497	11,672	-826	-6.6%
25.9%	12,348	11,657	-690	-5.6%
27.2%	12,315	11,514	-802	-6.5%
28.4%	12,279	11,483	-796	-6.5%
29.6%	12,279	11,440	-839	-6.8%
30.9%	12,277	11,270	-1,007	-8.2%
32.1%	12,246	11,026	-1,220	-10.0%
33.3%	12,147	11,022	-1,125	-9.3%
34.6%	12,096	11,019	-1,078	-8.9%
35.8%	12,075	10,751	-1,323	-11.0%
37.0%	12,068	10,711	-1,358	-11.3%
38.3%	12,056	10,708	-1,347	-11.2%
39.5%	12,019	10,677	-1,342	-11.2%
40.7%	12,013	10,527	-1,486	-12.4%
42.0%	11,924	10,518	-1,407	-11.8%
43.2%	11,832	10,512	-1,320	-11.2%
44.4%	11,869	10,500	-969	-7.6%
45.7%	11,328	10,500	-828	-7.3%
46.9%	11,296	10,500	-796	-7.0%
48.1%	11,185	10,500	-685	-6.1%
49.4%	11,158	10,500	-658	-5.9%
50.6%	11,071	10,500	-571	-5.2%
51.9%	11,036	10,500	-536	-4.9%
53.1%	11,035	10,500	-535	-4.8%
54.3%	10,994	10,500	-494	-4.5%
55.6%	10,923	10,500	-423	-3.9%
56.8%	10,920	10,500	-420	-3.8%
58.0%	10,841	10,500	-341	-3.1%
59.3%	10,837	10,500	-337	-3.1%
60.5%	10,801	10,500	-301	-2.8%
61.7%	10,702	10,500	-202	-1.9%
63.0%	10,589	10,500	-89	-0.8%
64.2%	10,553	10,500	-53	-0.5%
65.4%	10,532	10,500	-32	-0.3%
66.7%	10,408	10,500	92	0.9%
67.9%	10,399	10,499	99	1.0%
69.1%	10,362	10,282	-80	-0.8%
70.4%	10,281	10,272	-9	-0.1%
71.6%	10,281	10,189	-138	-1.4%
72.8%	10,039	10,174	135	1.3%
74.1%	9,965	10,139	174	1.7%
75.3%	9,898	10,125	227	2.3%
76.5%	9,889	10,062	173	1.7%
77.8%	9,858	10,040	182	1.8%
79.0%	9,846	9,887	40	0.4%
80.2%	9,831	9,800	-31	-0.3%
81.5%	9,830	9,665	-165	-1.7%
82.7%	9,679	9,650	-29	-0.3%
84.0%	9,596	9,627	31	0.3%
85.2%	9,550	9,588	29	0.3%
86.4%	9,508	9,396	-111	-1.2%
87.7%	9,471	9,375	-96	-1.0%
88.9%	9,305	9,064	-241	-2.6%
90.1%	9,255	8,623	-632	-6.8%
91.4%	9,230	8,418	-811	-8.8%
92.6%	9,191	8,200	-991	-10.8%
93.8%	9,184	8,181	-1,004	-10.9%
95.1%	8,903	8,100	-803	-9.0%
96.3%	8,728	7,989	-740	-8.5%
97.5%	8,392	7,963	-410	-4.9%
98.8%	8,166	7,900	-266	-3.3%
100.0%	7,758	7,516	-242	-3.1%

July				
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	15,415	18,786	3,370	21.9%
1.2%	15,332	18,590	3,258	21.2%
2.5%	15,000	15,298	298	2.0%
3.7%	15,000	15,000	0	0.0%
4.9%	15,000	15,000	0	0.0%
6.2%	15,000	15,000	0	0.0%
7.4%	15,000	15,000	0	0.0%
8.6%	15,000	15,000	0	0.0%
9.9%	15,000	15,000	0	0.0%
11.1%	15,000	15,000	0	0.0%
12.3%	15,000	15,000	0	0.0%
13.6%	15,000	15,000	0	0.0%
14.8%	15,000	15,000	0	0.0%
16.0%	15,000	15,000	0	0.0%
17.3%	15,000	15,000	0	0.0%
18.5%	15,000	15,000	0	0.0%
19.8%	15,000	15,000	0	0.0%
21.0%	15,000	15,000	0	0.0%
22.2%	15,000	15,000	0	0.0%
23.5%	15,000	11,094	-3,906	-26.0%
24.7%	15,000	15,000	0	0.0%
25.9%	15,000	15,000	0	0.0%
27.2%	15,000	15,000	0	0.0%
28.4%	15,000	15,000	0	0.0%
29.6%	15,000	15,000	0	0.0%
30.9%	15,000	15,000	0	0.0%
32.1%	15,000	15,000	0	0.0%
33.3%	15,000	15,000	0	0.0%
34.6%	15,000	15,000	0	0.0%
35.8%	15,000	15,000	0	0.0%
37.0%	15,000	15,000	0	0.0%
38.3%	15,000	10,000	-5,000	-33.3%
39.5%	15,000	15,000	0	0.0%
40.7%	15,000	14,913	-87	-0.6%
42.0%	15,000	14,901	-99	-0.7%
43.2%	15,000	14,822	-177	-1.2%
44.4%	15,000	14,783	-217	-1.4%
45.7%	15,000	14,778	-222	-1.5%
46.9%	15,000	14,766	-234	-1.6%
48.1%	14,901	14,044	-857	-5.8%
49.4%	14,881	14,029	-852	-5.7%
50.6%	14,871	13,836	-1,035	-6.9%
51.9%	14,778	13,942	-836	-5.7%
53.1%	14,759	13,865	-894	-6.1%
54.3%	14,625	13,754	-870	-5.9%
55.6%	14,449	13,589	-860	-6.0%
56.8%	14,424	13,562	-862	-6.0%
58.0%	14,387	13,536	-851	-5.9%
59.3%	14,167	13,504	-663	-4.7%
60.5%	14,109	13,370	-739	-5.2%
61.7%	14,095	13,304	-790	-5.6%
63.0%	14,050	13,202	-848	-6.0%
64.2%	13,848	13,174	-674	-4.9%
65.4%	13,811	13,112	-699	-5.1%
66.7%	13,790	13,003	-787	-5.7%
67.9%	13,752	12,837	-915	-6.7%
69.1%	13,710	12,788	-922	-6.7%
70.4%	13,664	12,765	-899	-6.6%
71.6%	13,495	12,693	-797	-5.9%
72.8%	13,320	12,600	-720	-5.4%
74.1%	13,192	12,500	-692	-5.2%
75.3%	13,093	12,500	-593	-4.5%
76.5%	13,059	12,500	-559	-4.3%
77.8%	12,816	12,500	-316	-2.5%
79.0%	12,714	12,500	-214	-1.7%
80.2%	12,705	12,500	-205	-1.6%
81.5%	12,525	12,500	-25	-0.2%
82.7%	12,341	12,492	151	1.2%
84.0%	12,331	12,484	153	1.2%
85.2%	12,279	12,437	158	1.3%
86.4%	12,214	12,300	86	0.7%
87.7%	12,096	12,191	96	0.8%
88.9%	12,056	12,110	54	0.4%
90.1%	12,032	12,102	70	0.6%
91.4%	11,982	12,079	97	0.8%
92.6%	11,715	11,988	273	2.3%
93.8%	11,695	11,948	253	2.2%
95.1%	11,441	11,870	429	3.8%
96.3%	11,119	11,706	587	5.3%
97.5%	10,950	11,362	413	3.8%
98.8%	10,338	11,352	1,014	9.8%
100.0%	9,607	10,176	569	5.9%

August				
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	13,327	13,115	-213	-1.6%
1.2%	13,157	13,106	-51	-0.4%
2.5%	12,726	11,860	-866	-6.8%
3.7%	12,618	11,704	-914	-7.2%
4.9%	12,605	11,631	-974	-7.7%
6.2%	12,493	11,610	-883	-7.1%
7.4%	12,223	11,419	-804	-6.6%
8.6%	12,095	11,368	-727	-6.0%
9.9%	11,959	11,141	-818	-6.8%
11.1%	11,900	11,000	-900	-7.6%
12.3%	11,839	11,064	-775	-6.5%
13.6%	11,833	11,053	-780	-6.6%
14.8%	11,823	10,859	-964	-8.2%
16.0%	11,466	10,737	-729	-6.4%
17.3%	11,420	10,664	-756	-6.6%
18.5%	11,414	10,619	-794	-7.0%
19.8%	11,375	10,618	-757	-6.7%
21.0%	11,205	10,573	-632	-5.6%
22.2%	11,198	10,555	-642	-5.7%
23.5%	11,094	10,541	-553	-5.0%
24.7%	11,069	10,468	-601	-5.4%
25.9%	11,062	10,446	-615	-5.6%
27.2%	10,936	10,394	-542	-5.0%
28.4%	10,883	10,392	-491	-4.5%
29.6%	10,825	10,337	-488	-4.5%
30.9%	10,820	10,335	-484	-4.5%
32.1%	10,819	10,289	-529	-4.9%
33.3%	10,781	10,272	-508	-4.7%
34.6%	10,725	10,191	-534	-5.0%
35.8%	10,689	10,139	-550	-5.1%
37.0%	10,647	10,088	-559	-5.3%
38.3%	10,480	10,022	-458	-4.4%
39.5%	10,211	10,000	-211	-2.1%
40.7%	10,140	10,000	-140	-1.4%
42.0%	10,137	10,000	-137	-1.4%
43.2%	9,949	9,949	0	0.0%
44.4%	9,945	10,000	55	0.6%
45.7%	9,938	10,000	62	0.6%
46.9%	9,913	10,000	87	0.9%
48.1%	9,887	10,000	113	1.1%
49.4%	9,864	10,000	136	1.4%
50.6%	9,851	10,000	149	1.5%
51.9%	9,841	10,000	159	1.6%
53.1%	9,802	10,000	198	2.0%
54.3%	9,802	10,000	198	2.0%
55.6%	9,785	10,000	215	2.2%
56.8%	9,715	10,000	285	2.9%
58.0%	9,651	10,000	349	3.6%
59.3%	9,650	10,000	350	3.6%
60.5%	9,626	10,000	374	3.9%
61.7%	9,620	10,000	380	3.9%
63.0%	9,489	10,000	511	5.4%
64.2%	9,472	10,000	528	5.6%
65.4%	9,447	10,000	553	5.9%
66.7%	9,427	10,000	573	6.1%
67.9%	9,305	10,000	695	7.5%
69.1%	9,292	10,000	708	7.6%
70.4%	9,180	10,000	820	8.9%
71.6%	9,134	10,000	866	9.5%
72.8%	9,120	9,955	835	9.2%
74.1%	8,917	9,915	998	11.2%
75.3%	8,888	9,904	1,016	11.4%
76.5%	8,885	9,871	986	11.1%
77.8%	8,856	9,823	966	10.9%
79.0%	8,845	9,783	938	10.6%
80.2				

**Figure SW-11-b**  
**Sacramento River at Bend Bridge, Monthly Flow**  
**Probability of Exceedance**

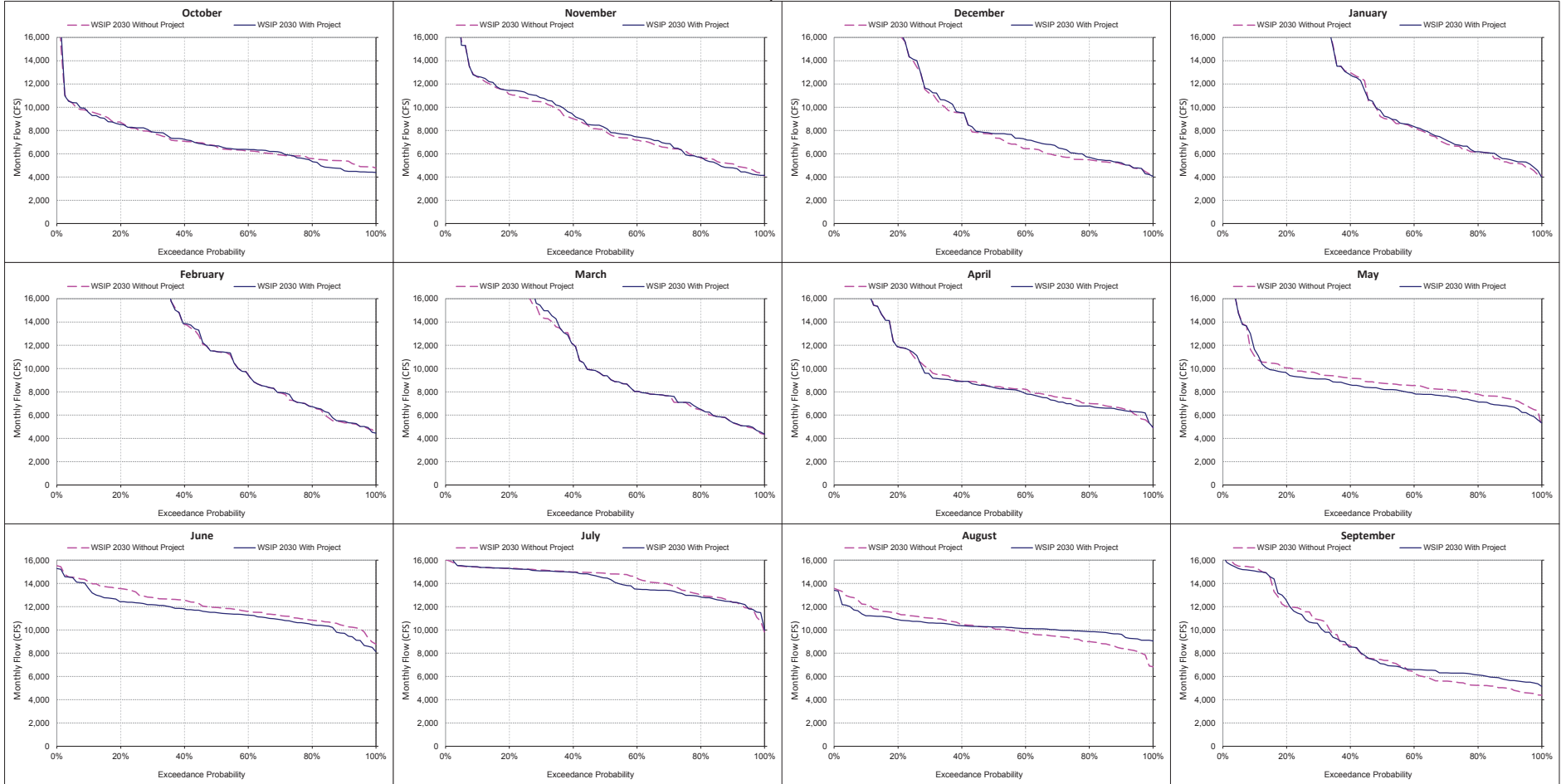


Table SW-11-b  
Sacramento River at Bend Bridge, Monthly Flow  
Probability of Exceedance

October				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	24,805	27,628	2,823	11.4%
1.2%	16,781	16,781	0	0.0%
2.5%	11,083	10,978	-105	-0.9%
3.7%	10,573	10,512	-62	-0.6%
4.9%	10,347	10,403	56	0.5%
6.2%	9,937	10,368	431	4.3%
7.4%	9,944	9,944	0	0.0%
8.6%	9,769	9,909	140	1.4%
9.9%	9,689	9,561	-128	-1.3%
11.1%	9,577	9,279	-297	-3.1%
12.3%	9,477	9,275	-202	-2.1%
13.6%	9,367	9,109	-258	-2.8%
14.8%	9,252	9,058	-194	-2.1%
16.0%	9,089	8,763	-326	-3.6%
17.3%	8,791	8,722	-69	-0.8%
18.5%	8,741	8,628	-113	-1.3%
19.8%	8,726	8,532	-194	-2.2%
21.0%	8,548	8,471	-77	-0.9%
22.2%	8,317	8,271	-46	-0.6%
23.5%	8,204	8,267	63	0.8%
24.7%	8,197	8,237	40	0.5%
25.9%	7,978	8,230	252	3.2%
27.2%	7,970	8,225	255	3.2%
28.4%	7,951	8,101	150	1.9%
29.6%	7,868	7,968	100	1.3%
30.9%	7,898	7,841	-57	-0.7%
32.1%	7,610	7,827	217	2.9%
33.3%	7,490	7,797	306	4.1%
34.6%	7,454	7,558	105	1.4%
35.8%	7,168	7,351	183	2.5%
37.0%	7,128	7,310	183	2.6%
38.3%	7,104	7,309	205	2.9%
39.5%	7,087	7,263	176	2.5%
40.7%	7,048	7,187	139	2.0%
42.0%	7,034	7,133	99	1.4%
43.2%	6,969	7,069	100	1.4%
44.4%	6,952	6,891	-60	-0.9%
45.7%	6,936	6,845	-91	-1.3%
46.9%	6,798	6,754	-43	-0.6%
48.1%	6,761	6,717	-44	-0.7%
49.4%	6,716	6,661	-55	-0.8%
50.6%	6,500	6,479	-21	-0.3%
51.9%	6,417	6,573	156	2.4%
53.1%	6,375	6,472	98	1.5%
54.3%	6,349	6,458	109	1.7%
55.6%	6,331	6,402	70	1.1%
56.8%	6,327	6,393	66	1.0%
58.0%	6,313	6,393	80	1.3%
59.3%	6,245	6,392	147	2.3%
60.5%	6,239	6,355	116	1.9%
61.7%	6,222	6,350	127	2.0%
63.0%	6,178	6,319	141	2.3%
64.2%	6,079	6,315	237	3.9%
65.4%	6,065	6,295	230	3.8%
66.7%	6,033	6,200	167	2.8%
67.9%	5,999	6,193	194	3.2%
69.1%	5,927	6,186	259	4.4%
70.4%	5,895	6,112	218	3.7%
71.6%	5,842	5,938	94	1.6%
72.8%	5,827	5,880	53	0.9%
74.1%	5,818	5,840	22	0.4%
75.3%	5,815	5,643	-172	-3.0%
76.5%	5,815	5,639	-176	-3.0%
77.8%	5,778	5,656	-122	-2.1%
79.0%	5,605	5,482	-123	-2.2%
80.2%	5,589	5,305	-283	-5.1%
81.5%	5,512	5,264	-248	-4.5%
82.7%	5,506	4,957	-549	-10.0%
84.0%	5,480	4,862	-618	-11.3%
85.2%	5,437	4,638	-799	-14.7%
86.4%	5,425	4,784	-641	-11.8%
87.7%	5,416	4,763	-653	-12.1%
88.9%	5,405	4,736	-668	-12.4%
90.1%	5,387	4,537	-850	-15.8%
91.4%	5,393	4,495	-898	-16.7%
92.6%	5,146	4,485	-661	-12.8%
93.8%	5,058	4,478	-580	-11.5%
95.1%	4,895	4,442	-453	-9.2%
96.3%	4,890	4,432	-459	-9.4%
97.5%	4,882	4,428	-454	-9.3%
98.8%	4,876	4,422	-454	-9.3%
100.0%	4,772	4,395	-377	-7.9%

November				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	30,510	32,253	1,743	5.7%
1.2%	27,006	27,799	793	2.9%
2.5%	20,269	19,968	-301	-1.5%
3.7%	19,973	19,950	-22	-0.1%
4.9%	15,676	15,332	-344	-2.2%
6.2%	15,333	15,299	-34	-0.2%
7.4%	13,545	13,520	-25	-0.2%
8.6%	12,853	12,786	-67	-0.5%
9.9%	12,616	12,864	248	1.9%
11.1%	12,466	12,583	117	0.9%
12.3%	12,209	12,478	269	2.2%
13.6%	12,036	12,206	170	1.4%
14.8%	11,848	12,128	280	2.4%
16.0%	11,658	11,781	123	1.1%
17.3%	11,558	11,575	18	0.2%
18.5%	11,553	11,493	-60	-0.5%
19.8%	11,141	11,460	319	2.9%
21.0%	11,045	11,442	397	3.6%
22.2%	11,039	11,420	382	3.5%
23.5%	10,848	11,380	532	4.9%
24.7%	10,831	11,305	474	4.4%
25.9%	10,755	11,129	374	3.5%
27.2%	10,518	11,061	543	5.2%
28.4%	10,497	11,015	518	4.9%
29.6%	10,486	10,840	354	3.4%
30.9%	10,437	10,757	320	3.1%
32.1%	10,219	10,588	369	3.6%
33.3%	10,102	10,536	434	4.3%
34.6%	9,888	10,193	306	3.1%
35.8%	9,736	10,114	378	3.9%
37.0%	9,275	9,929	654	7.1%
38.3%	9,195	9,623	428	4.7%
39.5%	9,059	9,498	439	4.8%
40.7%	8,950	9,170	220	2.5%
42.0%	8,836	9,032	196	2.2%
43.2%	8,681	8,617	-64	-0.7%
44.4%	8,485	8,535	50	0.6%
45.7%	8,160	8,484	324	4.0%
46.9%	8,155	8,450	294	3.6%
48.1%	8,112	8,448	336	4.1%
49.4%	8,097	8,323	225	2.8%
50.6%	8,087	8,148	61	0.8%
51.9%	7,601	7,818	217	2.9%
53.1%	7,476	7,800	325	4.3%
54.3%	7,403	7,725	322	4.4%
55.6%	7,368	7,675	307	4.2%
56.8%	7,360	7,647	287	3.9%
58.0%	7,336	7,596	260	3.5%
59.3%	7,189	7,484	295	4.1%
60.5%	7,147	7,439	293	4.1%
61.7%	7,056	7,393	336	4.8%
63.0%	7,050	7,346	296	4.2%
64.2%	6,942	7,288	326	4.7%
65.4%	6,791	7,133	342	5.0%
66.7%	6,697	7,126	429	6.4%
67.9%	6,578	6,962	383	5.8%
69.1%	6,543	6,878	335	5.1%
70.4%	6,451	6,852	401	6.2%
71.6%	6,419	6,505	86	1.3%
72.8%	6,413	6,469	56	0.9%
74.1%	6,343	6,283	-60	-0.9%
75.3%	6,214	5,898	-316	-5.1%
76.5%	5,964	5,827	-137	-2.3%
77.8%	5,836	5,824	-12	-0.2%
79.0%	5,779	5,710	-69	-1.2%
80.2%	5,605	5,692	87	1.6%
81.5%	5,595	5,443	-152	-2.7%
82.7%	5,587	5,321	-266	-4.8%
84.0%	5,533	5,280	-253	-4.6%
85.2%	5,325	5,137	-188	-3.5%
86.4%	5,213	4,914	-299	-5.7%
87.7%	5,211	4,823	-388	-7.5%
88.9%	5,152	4,801	-350	-6.8%
90.1%	5,131	4,794	-337	-6.6%
91.4%	4,918	4,710	-208	-4.2%
92.6%	4,863	4,442	-422	-8.7%
93.8%	4,809	4,434	-375	-7.8%
95.1%	4,725	4,340	-385	-8.2%
96.3%	4,613	4,236	-377	-8.2%
97.5%	4,410	4,187	-223	-5.1%
98.8%	4,344	4,150	-194	-4.5%
100.0%	4,091	4,140	49	1.2%

December				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	43,991	43,990	-1	0.0%
1.2%	40,606	41,235	630	1.6%
2.5%	40,494	40,622	128	0.3%
3.7%	40,330	38,144	-2,186	-5.4%
4.9%	37,225	37,232	7	0.0%
6.2%	31,401	31,910	508	1.6%
7.4%	31,278	31,280	2	0.0%
8.6%	30,717	30,085	-632	-2.1%
9.9%	28,011	26,187	-1,824	-6.5%
11.1%	25,033	25,034	1	0.0%
12.3%	23,636	23,640	4	0.0%
13.6%	21,684	22,798	1,114	5.1%
14.8%	17,849	18,643	794	4.5%
16.0%	17,706	18,332	625	3.5%
17.3%	17,317	18,315	998	5.8%
18.5%	16,333	17,941	1,608	9.8%
19.8%	16,288	17,048	760	4.7%
21.0%	16,043	16,331	288	1.8%
22.2%	15,634	15,634	0	0.0%
23.5%	14,357	14,352	-5	0.0%
24.7%	14,023	14,148	126	0.9%
25.9%	13,451	13,996	545	4.1%
27.2%	12,911	12,906	-5	0.0%
28.4%	11,545	11,665	119	1.0%
29.6%	11,239	11,550	311	2.8%
30.9%	11,161	11,237	76	0.7%
32.1%	10,671	11,218	547	5.1%
33.3%	10,245	10,662	417	4.1%
34.6%	10,061	10,628	567	5.6%
35.8%	9,715	10,460	745	7.7%
37.0%	9,616	10,270	655	6.8%
38.3%	9,548	9,615	67	0.7%
39.5%	9,527	9,549	22	0.2%
40.7%	9,474	9,504	30	0.3%
42.0%	8,475	8,474	-1	0.0%
43.2%	7,865	7,863	-2	0.0%
44.4%	7,845	7,941	96	1.2%
45.7%	7,810	7,881	71	0.9%
46.9%	7,737	7,847	109	1.4%
48.1%	7,725	7,809	84	1.1%
49.4%	7,692	7,748	56	0.7%
50.6%	7,346	7,344	-2	0.0%
51.9%	7,337	7,728	390	5.3%
53.1%	7,146	7,723	577	8.1%
54.3%	6,922	7,694	771	11.1%
55.6%	6,833	7,652	819	12.0%
56.8%	6,831	7,347	517	7.6%
58.0%	6,657	7,342	685	10.3%
59.3%	6,461	7,297	836	12.9%
60.5%	6,431	7,188	757	11.8%
61.7%	6,429	7,147	718	11.2%
63.0%	6,393	7,043	651	10.2%
64.2%	6,343	6,943	600	9.5%
65.4%	6,153	6,862	709	11.5%
66.7%	6,005	6,815	810	13.5%
67.9%	5,971	6,786	815	13.7%
69.1%	5,863	6,732	868	14.8%
70.4%	5,862	6,495	633	10.8%
71.6%	5,737	6,432	695	12.1%
72.8%	5,697	6,346	649	11.4%
74.1%	5,696	6,083	387	6.8%
75.3%	5,524	6,073	549	9.9%
76.5%	5,510	6,001	492	8.9%
77.8%	5,507	5,966	460	8.7%
79.0%	5,500	5,748	249	4.5%
80.2%	5,473	5,663	190	3.5%
81.5%	5,428	5,573	145	2.7%
82.7%	5,372	5,489	117	2.2%
84.0%	5,312	5,476	164	3.1%
85.2%	5,296	5,433	137	2.6%
86.4%	5,253	5,430	177	3.4%
87.7%	5,241	5,315	75	1.4%
88.9%	5,228</			



Table SW-11-b  
Sacramento River at Bend Bridge, Monthly Flow  
Probability of Exceedance

Percent Exceedance Probability	February				Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project	WSIP 2030 With Project	Absolute Difference (CFS)	Relative Difference (%)		
	Monthly Flow (CFS)	Monthly Flow (CFS)				
0.0%	87,769	87,769	0	0.0%		
1.2%	84,848	82,848	-1,800	-2.1%		
2.5%	59,216	60,535	1,720	2.9%		
3.7%	59,111	59,116	5	0.0%		
4.9%	58,443	58,444	1	0.0%		
6.2%	56,500	56,501	1	0.0%		
7.4%	50,719	50,717	-2	0.0%		
8.6%	45,997	46,019	22	0.0%		
9.9%	43,771	43,774	3	0.0%		
11.1%	43,711	43,706	-5	0.0%		
12.3%	40,782	43,356	2,574	6.3%		
13.6%	40,495	41,224	728	1.8%		
14.8%	39,906	40,493	587	1.5%		
16.0%	39,893	39,906	13	0.0%		
17.3%	38,279	38,280	1	0.0%		
18.5%	34,277	34,278	1	0.0%		
19.8%	33,086	33,070	-16	0.0%		
21.0%	31,794	32,673	879	2.8%		
22.2%	31,286	31,813	515	1.6%		
23.5%	29,971	31,299	1,328	4.4%		
24.7%	28,319	29,960	1,640	5.8%		
25.9%	27,409	28,307	898	3.3%		
27.2%	25,229	25,238	9	0.0%		
28.4%	23,378	23,363	-15	-0.1%		
29.6%	21,750	23,248	1,498	6.9%		
30.9%	20,257	20,411	154	0.8%		
32.1%	18,565	19,116	551	3.0%		
33.3%	17,469	18,315	846	4.8%		
34.6%	16,596	17,474	879	5.3%		
35.8%	15,783	15,784	1	0.0%		
37.0%	15,224	15,049	-176	-1.2%		
38.3%	14,810	14,813	2	0.0%		
39.5%	13,842	13,866	24	0.2%		
40.7%	13,742	13,853	111	0.8%		
42.0%	13,486	13,738	252	1.9%		
43.2%	13,061	13,021	-40	-0.3%		
44.4%	12,865	13,300	435	3.4%		
45.7%	12,111	12,235	124	1.0%		
46.9%	11,938	11,940	2	0.0%		
48.1%	11,523	11,524	1	0.0%		
49.4%	11,503	11,503	0	0.0%		
50.6%	11,432	11,433	1	0.0%		
51.9%	11,381	11,431	50	0.4%		
53.1%	11,375	11,384	9	0.1%		
54.3%	11,172	11,348	176	1.6%		
55.6%	10,475	10,475	0	0.0%		
56.8%	10,014	10,013	-1	0.0%		
58.0%	9,778	9,778	1	0.0%		
59.3%	9,738	9,726	-11	-0.1%		
60.5%	9,244	9,247	3	0.0%		
61.7%	8,858	8,862	3	0.0%		
63.0%	8,676	8,675	-1	0.0%		
64.2%	8,537	8,540	3	0.0%		
65.4%	8,458	8,461	3	0.0%		
66.7%	8,358	8,358	1	0.0%		
67.9%	8,306	8,303	-3	0.0%		
69.1%	7,943	7,947	3	0.0%		
70.4%	7,893	7,939	46	0.6%		
71.6%	7,772	7,804	122	1.6%		
72.8%	7,293	7,774	481	6.6%		
74.1%	7,263	7,264	0	0.0%		
75.3%	7,097	7,097	1	0.0%		
76.5%	7,065	7,064	-1	0.0%		
77.8%	6,997	6,997	0	0.0%		
79.0%	6,779	6,781	2	0.0%		
80.2%	6,720	6,721	1	0.0%		
81.5%	6,535	6,591	55	0.8%		
82.7%	6,470	6,537	67	1.0%		
84.0%	6,000	6,312	312	5.2%		
85.2%	5,769	5,805	436	7.6%		
86.4%	5,520	5,834	314	5.7%		
87.7%	5,491	5,524	33	0.6%		
88.9%	5,427	5,492	65	1.2%		
90.1%	5,333	5,481	149	2.8%		
91.4%	5,332	5,333	1	0.0%		
92.6%	5,269	5,329	60	1.1%		
93.8%	5,216	5,268	52	1.0%		
95.1%	5,019	5,058	2	0.0%		
96.3%	5,014	5,018	4	0.1%		
97.5%	4,825	4,926	101	2.1%		
98.8%	4,761	4,926	165	3.5%		
100.0%	4,404	4,454	49	1.1%		

Percent Exceedance Probability	March				Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project	WSIP 2030 With Project	Absolute Difference (CFS)	Relative Difference (%)		
	Monthly Flow (CFS)	Monthly Flow (CFS)				
0.0%	81,396	81,397	1	0.0%		
1.2%	78,412	78,418	6	0.0%		
2.5%	56,138	56,139	1	0.0%		
3.7%	49,042	49,044	2	0.0%		
4.9%	40,170	38,824	-1,346	-3.4%		
6.2%	35,288	35,283	-5	0.0%		
7.4%	34,503	34,482	-21	-0.1%		
8.6%	33,664	33,665	1	0.0%		
9.9%	31,145	31,150	5	0.0%		
11.1%	29,253	29,257	4	0.0%		
12.3%	22,829	22,827	-2	0.0%		
13.6%	22,596	21,877	-719	-3.2%		
14.8%	21,875	21,525	-350	-1.6%		
16.0%	21,519	21,477	-42	-0.2%		
17.3%	21,477	20,878	-599	-2.8%		
18.5%	20,694	20,842	148	0.7%		
19.8%	20,333	20,697	364	1.8%		
21.0%	20,126	20,489	343	1.7%		
22.2%	19,363	19,434	71	0.4%		
23.5%	19,075	19,079	4	0.0%		
24.7%	17,602	19,012	1,410	8.0%		
25.9%	16,263	17,603	1,340	8.2%		
27.2%	15,608	16,789	1,181	7.6%		
28.4%	15,397	15,612	215	1.4%		
29.6%	14,543	15,459	916	6.3%		
30.9%	14,326	14,976	649	4.5%		
32.1%	14,284	14,965	681	4.8%		
33.3%	14,025	14,547	522	3.7%		
34.6%	13,597	14,284	687	5.1%		
35.8%	13,475	13,478	3	0.0%		
37.0%	13,104	13,108	5	0.0%		
38.3%	13,091	12,895	-196	-1.5%		
39.5%	12,198	12,194	-4	0.0%		
40.7%	11,897	11,896	-1	0.0%		
42.0%	10,886	10,688	-2	0.0%		
43.2%	10,501	10,503	2	0.0%		
44.4%	9,940	9,940	1	0.0%		
45.7%	9,894	9,893	-1	0.0%		
46.9%	9,836	9,837	1	0.0%		
48.1%	9,657	9,658	0	0.0%		
49.4%	9,401	9,402	1	0.0%		
50.6%	9,378	9,376	-2	0.0%		
51.9%	9,040	9,042	2	0.0%		
53.1%	8,886	8,884	-2	0.0%		
54.3%	8,849	8,849	0	0.0%		
55.6%	8,706	8,702	-5	-0.1%		
56.8%	8,682	8,681	-1	0.0%		
58.0%	8,327	8,330	3	0.0%		
59.3%	8,042	8,042	0	0.0%		
60.5%	8,029	8,030	1	0.0%		
61.7%	7,917	7,917	0	0.0%		
63.0%	7,905	7,906	1	0.0%		
64.2%	7,802	7,802	0	0.0%		
65.4%	7,791	7,792	1	0.0%		
66.7%	7,769	7,770	0	0.0%		
67.9%	7,725	7,729	5	0.1%		
69.1%	7,663	7,664	1	0.0%		
70.4%	7,647	7,647	0	0.0%		
71.6%	7,104	7,597	493	6.9%		
72.8%	7,097	7,105	8	0.1%		
74.1%	7,087	7,097	10	0.1%		
75.3%	7,086	7,088	2	0.0%		
76.5%	6,831	7,087	256	3.8%		
77.8%	6,613	6,833	219	3.3%		
79.0%	6,508	6,614	107	1.6%		
80.2%	6,452	6,451	-1	0.0%		
81.5%	6,283	6,288	6	0.1%		
82.7%	6,008	6,256	248	4.1%		
84.0%	5,960	5,955	-5	-0.1%		
85.2%	5,871	5,873	2	0.0%		
86.4%	5,833	5,834	1	0.0%		
87.7%	5,798	5,799	2	0.0%		
88.9%	5,558	5,559	1	0.0%		
90.1%	5,334	5,335	2	0.0%		
91.4%	5,204	5,204	0	0.0%		
92.6%	5,112	5,101	-11	-0.2%		
93.8%	5,058	5,065	7	0.1%		
95.1%	4,948	5,058	110	2.2%		
96.3%	4,889	4,951	62	1.3%		
97.5%	4,680	4,866	5	0.1%		
98.8%	4,421	4,549	127	2.9%		
100.0%	4,338	4,357	19	0.4%		

Percent Exceedance Probability	April				Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project	WSIP 2030 With Project	Absolute Difference (CFS)	Relative Difference (%)		
	Monthly Flow (CFS)	Monthly Flow (CFS)				
0.0%	42,458	42,460	2	0.0%		
1.2%	33,162	33,164	3	0.0%		
2.5%	27,535	27,535	0	0.0%		
3.7%	23,041	23,043	2	0.0%		
4.9%	20,865	22,056	1,191	5.7%		
6.2%	20,590	20,867	277	1.3%		
7.4%	18,663	20,525	1,862	10.0%		
8.6%	18,531	18,664	132	0.7%		
9.9%	16,972	16,973	1	0.0%		
11.1%	16,816	16,278	-537	-3.2%		
12.3%	15,439	15,444	4	0.0%		
13.6%	15,354	15,358	3	0.0%		
14.8%	14,666	14,668	2	0.0%		
16.0%	14,234	14,140	-95	-0.7%		
17.3%	14,122	14,123	1	0.0%		
18.5%	12,381	12,347	-34	-0.3%		
19.8%	11,882	11,884	2	0.0%		
21.0%	11,796	11,795	-1	0.0%		
22.2%	11,741	11,745	4	0.0%		
23.5%	11,586	11,586	0	0.0%		
24.7%	11,110	11,407	297	2.7%		
25.9%	10,682	11,111	428	4.0%		
27.2%	10,521	10,336	-185	-1.8%		
28.4%	10,202	9,613	-589	-5.8%		
29.6%	10,059	9,650	-409	-4.1%		
30.9%	9,611	9,168	-443	-4.6%		
32.1%	9,506	9,160	-346	-3.6%		
33.3%	9,486	9,102	-384	-4.0%		
34.6%	9,438	9,091	-347	-3.7%		
35.8%	9,389	9,062	-327	-3.5%		
37.0%	9,100	8,994	-106	-1.2%		
38.3%	8,996	8,898	-98	-1.1%		
39.5%	8,920	8,897	-23	-0.3%		
40.7%	8,902	8,894	-8	-0.1%		
42.0%	8,900	8,892	-9	-0.1%		
43.2%	8,895	8,895	0	0.0%		
44.4%	8,857	8,624	-232	-2.6%		
45.7%	8,636	8,565	-71	-0.8%		
46.9%	8,627	8,554	-73	-0.9%		
48.1%	8,499	8,482	-17	-0.2%		
49.4%	8,488	8,421	-67	-0.8%		
50.6%	8,458	8,324	-134	-1.6%		
51.9%	8,453	8,254	-198	-2.3%		
53.1%	8,351	8,252	-99	-1.2%		
54.3%	8,351	8,220	-131	-1.6%		
55.6%	8,295	8,202	-93	-1.1%		
56.8%	8,253	8,172	-81	-1.0%		
58.0%	8,251	8,091	-160	-1.9%		
59.3%	8,247	7,945	-302	-3.7%		
60.5%	8,185	7,814	-371	-4.5%		
61.7%	7,914	7,773	-141	-1.8%		
63.0%	7,871	7,686	-186	-2.4%		
64.2%	7,870	7,593	-277	-3.5%		
65.4%	7,812	7,509	-302	-3.9%		
66.7%	7,708	7,486	-222	-2.9%		
67.9%	7,675	7,298	-377	-4.9%		
69.1%	7,569	7,268	-301	-4.0%		
70.4%	7,534	7,125	-409	-5.4%		
71.6%	7,509	7,122	-387	-5.2%		
72.8%	7,441	6,979	-462	-6.2%		
74.1%	7,426	6,977	-449	-6.1%		
75.3%	7,330	6,858	-472	-6.4%		
76.5%	7,247	6,789	-458	-6.3%		
77.8%	7,050	6,787	-263	-3.7%		
79.0%	7,031	6,784	-247	-3.5%		
80.2%	6,988	6,772	-216	-3.1%		
81.5%	6,979	6,697	-281	-4.0%		
82.7%	6,963	6,654	-310	-4.4%		
84.0%	6,878	6,629	-250	-3.6%		
85.2%	6,789	6,607	-181	-2.7%		
86.4%	6,742	6,595	-147	-2.2%		

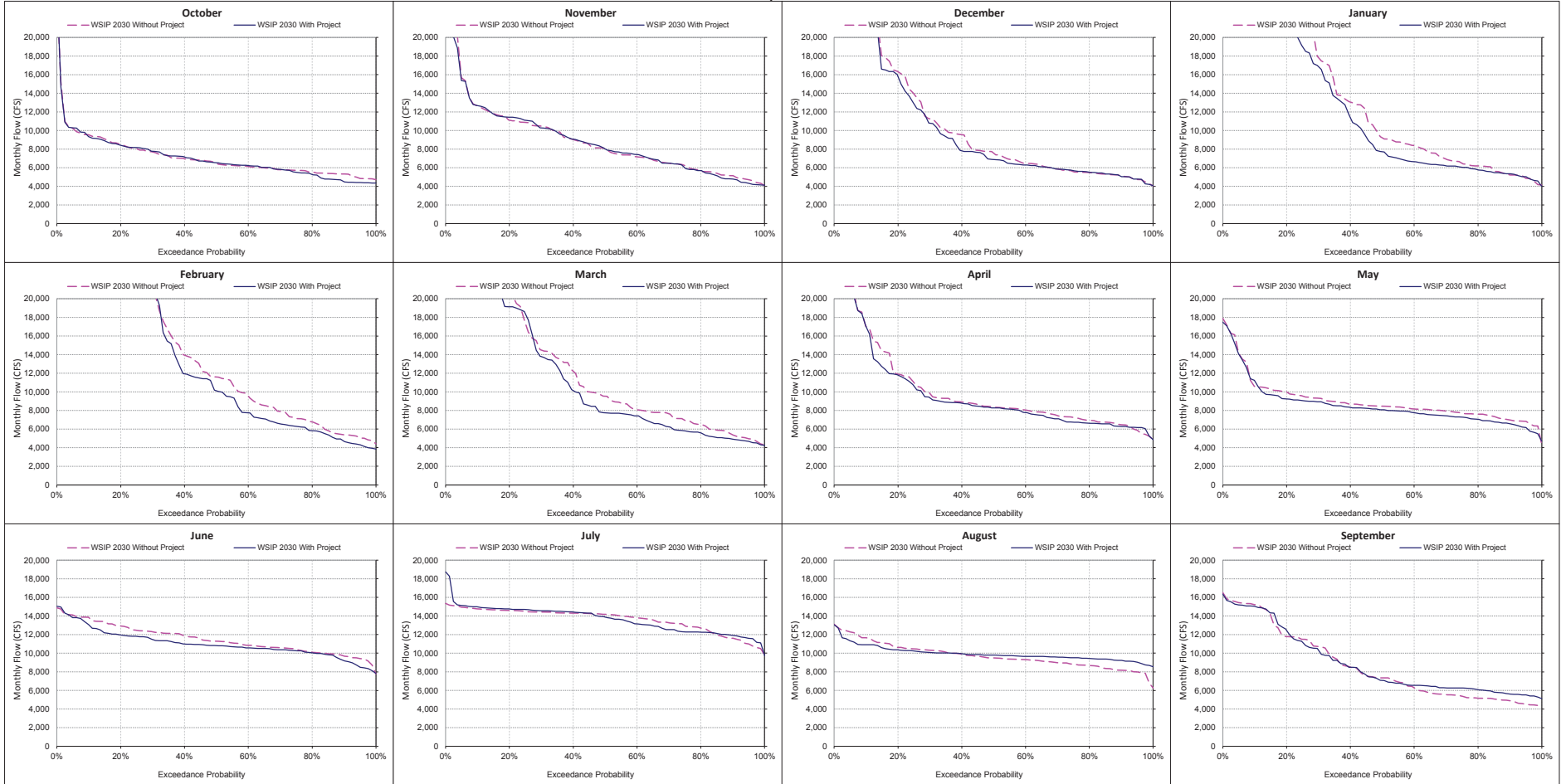
Table SW-11-b  
Sacramento River at Bend Bridge, Monthly Flow  
Probability of Exceedance

June					
Percent Exceedance Probability	WSIP 2030 Without Project		Absolute Difference (CFS)	Relative Difference (%)	
	Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)			
0.0%	15,526	15,285	-241	-1.6%	
1.2%	15,440	15,215	-225	-1.5%	
2.5%	14,781	14,584	-197	-1.3%	
3.7%	14,549	14,541	-8	-0.1%	
4.9%	14,532	14,516	-16	-0.1%	
6.2%	14,493	14,108	-385	-2.7%	
7.4%	14,388	14,076	-312	-2.2%	
8.6%	14,351	14,057	-294	-2.0%	
9.9%	14,150	13,961	-189	-1.3%	
11.1%	13,964	13,184	-779	-5.6%	
12.3%	13,964	12,999	-964	-6.9%	
13.6%	13,775	12,908	-867	-6.3%	
14.8%	13,736	12,780	-956	-7.0%	
16.0%	13,682	12,759	-924	-6.8%	
17.3%	13,663	12,705	-958	-7.0%	
18.5%	13,576	12,653	-923	-6.8%	
19.8%	13,564	12,435	-1,128	-8.3%	
21.0%	13,524	12,429	-1,095	-8.1%	
22.2%	13,463	12,391	-1,073	-8.0%	
23.5%	13,380	12,380	-1,000	-7.5%	
24.7%	13,272	12,327	-945	-7.1%	
25.9%	12,948	12,324	-624	-4.8%	
27.2%	12,923	12,275	-648	-5.0%	
28.4%	12,828	12,188	-640	-5.0%	
29.6%	12,799	12,176	-623	-4.9%	
30.9%	12,757	12,157	-600	-4.7%	
32.1%	12,681	12,106	-575	-4.5%	
33.3%	12,667	12,102	-566	-4.5%	
34.6%	12,660	12,039	-621	-4.9%	
35.8%	12,637	11,961	-676	-5.4%	
37.0%	12,625	11,860	-765	-6.1%	
38.3%	12,596	11,860	-737	-5.8%	
39.5%	12,588	11,832	-756	-6.0%	
40.7%	12,507	11,754	-752	-6.0%	
42.0%	12,404	11,749	-654	-5.3%	
43.2%	12,386	11,660	-726	-5.9%	
44.4%	12,278	11,690	-588	-4.8%	
45.7%	12,054	11,607	-448	-3.7%	
46.9%	12,006	11,562	-444	-3.7%	
48.1%	11,962	11,523	-439	-3.7%	
49.4%	11,943	11,505	-438	-3.7%	
50.6%	11,928	11,476	-452	-3.8%	
51.9%	11,869	11,426	-443	-3.7%	
53.1%	11,845	11,412	-433	-3.7%	
54.3%	11,841	11,387	-454	-3.8%	
55.6%	11,786	11,362	-425	-3.6%	
56.8%	11,745	11,354	-391	-3.3%	
58.0%	11,661	11,337	-324	-2.8%	
59.3%	11,612	11,287	-325	-2.8%	
60.5%	11,570	11,270	-299	-2.6%	
61.7%	11,525	11,244	-281	-2.4%	
63.0%	11,516	11,127	-389	-3.4%	
64.2%	11,506	11,094	-412	-3.6%	
65.4%	11,367	11,068	-299	-2.6%	
66.7%	11,360	10,992	-368	-3.2%	
67.9%	11,328	10,977	-351	-3.1%	
69.1%	11,317	10,912	-405	-3.6%	
70.4%	11,216	10,870	-346	-3.1%	
71.6%	11,185	10,800	-385	-3.4%	
72.8%	11,167	10,777	-390	-3.5%	
74.1%	11,049	10,683	-366	-3.3%	
75.3%	11,023	10,632	-391	-3.5%	
76.5%	10,961	10,630	-331	-3.0%	
77.8%	10,933	10,581	-352	-3.2%	
79.0%	10,863	10,523	-340	-3.1%	
80.2%	10,832	10,447	-384	-3.5%	
81.5%	10,800	10,401	-398	-3.7%	
82.7%	10,790	10,394	-396	-3.7%	
84.0%	10,698	10,361	-337	-3.1%	
85.2%	10,687	10,318	-369	-3.5%	
86.4%	10,615	10,209	-407	-3.8%	
87.7%	10,573	9,794	-779	-7.4%	
88.9%	10,436	9,729	-707	-6.8%	
90.1%	10,361	9,717	-644	-6.2%	
91.4%	10,266	9,460	-807	-7.9%	
92.6%	10,230	9,418	-812	-7.9%	
93.8%	10,182	9,116	-1,066	-10.5%	
95.1%	10,091	9,101	-990	-9.8%	
96.3%	9,838	8,654	-1,184	-12.0%	
97.5%	9,503	8,569	-934	-9.8%	
98.8%	8,904	8,000	-904	-10.1%	
100.0%	8,781	8,134	-647	-7.4%	

July					
Percent Exceedance Probability	WSIP 2030 Without Project		Absolute Difference (CFS)	Relative Difference (%)	
	Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)			
0.0%	16,042	19,127	3,085	19.2%	
1.2%	15,933	18,740	2,808	17.6%	
2.5%	15,787	15,932	145	0.9%	
3.7%	15,545	15,544	0	0.0%	
4.9%	15,480	15,528	48	0.3%	
6.2%	15,459	15,481	22	0.1%	
7.4%	15,441	15,465	24	0.2%	
8.6%	15,429	15,438	9	0.1%	
9.9%	15,405	15,434	28	0.2%	
11.1%	15,379	15,380	1	0.0%	
12.3%	15,363	15,378	15	0.1%	
13.6%	15,341	15,363	22	0.1%	
14.8%	15,338	15,339	1	0.0%	
16.0%	15,330	15,338	8	0.1%	
17.3%	15,320	15,332	11	0.1%	
18.5%	15,297	15,303	6	0.0%	
19.8%	15,296	15,296	0	0.0%	
21.0%	15,295	15,257	-38	-0.2%	
22.2%	15,294	15,233	-61	-0.4%	
23.5%	15,236	15,231	-5	0.0%	
24.7%	15,229	15,220	-9	-0.1%	
25.9%	15,218	15,213	-5	0.0%	
27.2%	15,209	15,111	-98	-0.6%	
28.4%	15,188	15,092	-96	-0.5%	
29.6%	15,153	15,073	-80	-0.5%	
30.9%	15,139	15,073	-66	-0.4%	
32.1%	15,109	15,066	-43	-0.3%	
33.3%	15,097	15,056	-40	-0.3%	
34.6%	15,066	15,025	-41	-0.3%	
35.8%	15,058	15,002	-56	-0.4%	
37.0%	15,045	14,997	-48	-0.3%	
38.3%	15,018	14,996	-23	-0.2%	
39.5%	14,985	14,969	-16	-0.1%	
40.7%	14,977	14,960	-17	-0.1%	
42.0%	14,970	14,858	-112	-0.7%	
43.2%	14,868	14,732	-136	-0.9%	
44.4%	14,948	14,829	-119	-0.8%	
45.7%	14,931	14,745	-186	-1.2%	
46.9%	14,914	14,674	-239	-1.6%	
48.1%	14,909	14,569	-340	-2.3%	
49.4%	14,889	14,486	-403	-2.7%	
50.6%	14,768	14,361	-407	-2.7%	
51.9%	14,812	14,328	-485	-3.3%	
53.1%	14,809	14,104	-705	-4.8%	
54.3%	14,804	13,976	-828	-5.6%	
55.6%	14,780	13,891	-889	-6.0%	
56.8%	14,765	13,823	-942	-6.4%	
58.0%	14,827	13,791	-836	-5.7%	
59.3%	14,620	13,523	-1,097	-7.5%	
60.5%	14,367	13,502	-865	-6.0%	
61.7%	14,260	13,482	-778	-5.5%	
63.0%	14,202	13,475	-727	-5.1%	
64.2%	14,107	13,441	-665	-4.7%	
65.4%	14,080	13,425	-654	-4.6%	
66.7%	14,052	13,421	-631	-4.5%	
67.9%	14,031	13,413	-618	-4.4%	
69.1%	13,980	13,402	-578	-4.1%	
70.4%	13,888	13,388	-499	-3.6%	
71.6%	13,761	13,323	-438	-3.2%	
72.8%	13,613	13,204	-408	-3.0%	
74.1%	13,427	13,134	-293	-2.2%	
75.3%	13,375	12,983	-392	-2.9%	
76.5%	13,256	12,969	-288	-2.2%	
77.8%	13,175	12,863	-211	-1.6%	
79.0%	13,102	12,898	-203	-1.6%	
80.2%	12,972	12,817	-155	-1.2%	
81.5%	12,909	12,769	-140	-1.1%	
82.7%	12,884	12,765	-119	-0.9%	
84.0%	12,821	12,691	-131	-1.0%	
85.2%	12,802	12,591	-211	-1.6%	
86.4%	12,759	12,553	-207	-1.6%	
87.7%	12,646	12,477	-169	-1.3%	
88.9%	12,517	12,448	-68	-0.5%	
90.1%	12,378	12,378	0	0.0%	
91.4%	12,359	12,353	-6	0.1%	
92.6%	12,138	12,259	121	1.0%	
93.8%	11,913	12,173	260	2.2%	
95.1%	11,859	11,816	-43	-0.4%	
96.3%	11,833	11,769	-64	-0.5%	
97.5%	11,093	11,528	435	3.9%	
98.8%	10,464	11,498	1,034	9.9%	
100.0%	9,801	9,968	168	1.7%	

August					
Percent Exceedance Probability	WSIP 2030 Without Project		Absolute Difference (CFS)	Relative Difference (%)	
	Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)			
0.0%	13,571	13,401	-170	-1.3%	
1.2%	13,442	13,348	-94	-0.7%	
2.5%	13,314	12,179	-1,135	-8.5%	
3.7%	12,955	12,131	-824	-6.4%	
4.9%	12,836	12,008	-827	-6.4%	
6.2%	12,773	11,728	-1,045	-8.2%	
7.4%	12,568	11,644	-925	-7.4%	
8.6%	12,231	11,383	-848	-6.9%	
9.9%	12,192	11,217	-975	-8.0%	
11.1%	12,109	11,232	-877	-7.2%	
12.3%	11,833	11,188	-644	-5.4%	
13.6%	11,780	11,172	-608	-5.2%	
14.8%	11,607	11,165	-442	-3.8%	
16.0%	11,584	11,132	-452	-3.9%	
17.3%	11,555	11,079	-476	-4.1%	
18.5%	11,496	10,978	-518	-4.5%	
19.8%	11,429	10,903	-526	-4.6%	
21.0%	11,312	10,841	-471	-4.2%	
22.2%	11,303	10,803	-500	-4.4%	
23.5%	11,231	10,780	-451	-4.0%	
24.7%	11,201	10,742	-459	-4.1%	
25.9%	11,169	10,738	-431	-3.9%	
27.2%	11,106	10,718	-389	-3.5%	
28.4%	11,058	10,652	-406	-3.7%	
29.6%	11,030	10,608	-421	-3.8%	
30.9%	11,005	10,608	-397	-3.6%	
32.1%	10,960	10,577	-383	-3.5%	
33.3%	10,946	10,577	-369	-3.4%	
34.6%	10,844	10,561	-284	-2.6%	
35.8%	10,790	10,511	-279	-2.6%	
37.0%	10,729	10,470	-259	-2.4%	
38.3%	10,674	10,386	-287	-2.7%	
39.5%	10,507	10,366	-140	-1.3%	
40.7%	10,453	10,345	-109	-1.0%	
42.0%	10,411	10,337	-74	-0.7%	
43.2%	10,332	10,316	-16	-0.1%	
44.4%	10,307	10,309	2	0.0%	
45.7%	10,295	10,285	-11	-0.1%	
46.9%	10,257	10,284	28	0.3%	
48.1%	10,230	10,283	54	0.5%	
49.4%	10,211	10,263	52	0.5%	
50.6%	10,182	10,263	81	0.8%	
51.9%	10,057	10,257	200	2.0%	
53.1%	10,034	10,254	220	2.2%	
54.3%	10,012	10,210	198	2.0%	
55.6%	9,945	10,204	260	2.6%	
56.8%	9,904	10,158	254	2.6%	
58.0%	9,871	10,151	281	2.8%	
59.3%	9,772	10,129	357	3.7%	
60.5%	9,755	10,127	372	3.8%	
61.7%	9,725	10,116	391	4.0%	
63.0%	9,595	10,107	512	5.3%	
64.2%	9,579	10,104	525	5.5%	
65.4%	9,565				

**Figure SW-12-b**  
**Sacramento River below Red Bluff Diversion Dam, Monthly Flow**  
**Probability of Exceedance**



**Table SW-12-b**  
Sacramento River below Red Bluff Diversion Dam, Monthly Flow  
Probability of Exceedance

October				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	24,760	25,516	756	3.1%
1.2%	15,293	14,860	-633	-4.1%
2.5%	10,986	10,692	-294	-2.6%
3.7%	10,407	10,348	-60	-0.6%
4.9%	10,242	10,280	37	0.4%
6.2%	9,874	10,264	390	3.9%
7.4%	9,723	9,823	101	1.0%
8.6%	9,565	9,803	237	2.5%
9.9%	9,544	9,357	-187	-2.0%
11.1%	9,373	9,189	-183	-2.0%
12.3%	9,370	9,144	-226	-2.4%
13.6%	9,310	9,053	-258	-2.8%
14.8%	9,117	8,910	-206	-2.3%
16.0%	8,941	8,708	-233	-2.6%
17.3%	8,686	8,594	-92	-1.1%
18.5%	8,664	8,579	-86	-1.0%
19.8%	8,540	8,442	-99	-1.2%
21.0%	8,388	8,310	-77	-0.9%
22.2%	8,222	8,194	-28	-0.3%
23.5%	8,115	8,172	57	0.7%
24.7%	8,106	8,166	59	0.7%
25.9%	7,895	8,140	245	3.1%
27.2%	7,892	8,051	159	2.0%
28.4%	7,749	8,018	268	3.5%
29.6%	7,721	8,150	429	5.6%
30.9%	7,621	7,762	142	1.9%
32.1%	7,433	7,681	248	3.3%
33.3%	7,376	7,447	70	1.0%
34.6%	7,355	7,290	-65	-0.9%
35.8%	7,078	7,259	182	2.6%
37.0%	7,037	7,254	217	3.1%
38.3%	7,034	7,221	187	2.7%
39.5%	7,009	7,208	200	2.9%
40.7%	6,890	7,075	185	2.7%
42.0%	6,862	7,038	176	2.6%
43.2%	6,846	6,903	57	0.8%
44.4%	6,623	6,717	-105	-1.5%
45.7%	6,810	6,708	-101	-1.5%
46.9%	6,731	6,626	-105	-1.6%
48.1%	6,699	6,609	-91	-1.4%
49.4%	6,580	6,538	-42	-0.6%
50.6%	6,372	6,319	-53	-0.8%
51.9%	6,320	6,435	115	1.8%
53.1%	6,275	6,400	125	2.0%
54.3%	6,266	6,365	100	1.6%
55.6%	6,239	6,317	78	1.3%
56.8%	6,206	6,287	81	1.3%
58.0%	6,191	6,268	78	1.1%
59.3%	6,187	6,251	65	1.0%
60.5%	6,098	6,221	123	2.0%
61.7%	6,070	6,185	115	1.9%
63.0%	6,036	6,163	127	2.1%
64.2%	6,020	6,044	23	0.4%
65.4%	5,967	6,031	64	1.1%
66.7%	5,952	6,026	74	1.2%
67.9%	5,933	5,862	-71	-1.2%
69.1%	5,793	5,822	29	0.5%
70.4%	5,788	5,803	15	0.3%
71.6%	5,746	5,746	-39	-0.7%
72.8%	5,749	5,728	-21	-0.4%
74.1%	5,732	5,549	-183	-3.2%
75.3%	5,714	5,501	-213	-3.7%
76.5%	5,712	5,426	-286	-5.0%
77.8%	5,686	5,423	-262	-4.6%
79.0%	5,544	5,404	-140	-2.5%
80.2%	5,530	5,251	-279	-5.0%
81.5%	5,427	5,218	-209	-3.9%
82.7%	5,426	4,900	-526	-9.7%
84.0%	5,419	4,784	-635	-11.7%
85.2%	5,382	4,781	-601	-11.2%
86.4%	5,372	4,406	-966	-18.0%
87.7%	5,339	4,710	-628	-11.8%
88.9%	5,328	4,682	-646	-12.1%
90.1%	5,327	4,462	-865	-16.2%
91.4%	5,308	4,446	-862	-16.2%
92.6%	5,088	4,434	-654	-12.9%
93.8%	4,987	4,421	-566	-11.3%
95.1%	4,842	4,406	-436	-9.0%
96.3%	4,826	4,223	-603	-12.5%
97.5%	4,816	4,396	-420	-8.9%
98.8%	4,812	4,361	-451	-9.4%
100.0%	4,718	4,359	-359	-7.6%

November				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	30,605	30,227	-378	-1.2%
1.2%	27,114	27,898	784	2.9%
2.5%	20,414	20,198	-216	-1.1%
3.7%	20,122	18,867	-1,255	-6.2%
4.9%	15,672	15,364	-309	-2.0%
6.2%	15,356	15,295	-61	-0.4%
7.4%	13,544	13,510	-34	-0.2%
8.6%	12,659	12,786	127	1.0%
9.9%	12,658	12,698	40	0.3%
11.1%	12,465	12,597	132	1.1%
12.3%	12,250	12,468	218	1.8%
13.6%	12,044	12,118	74	0.6%
14.8%	11,842	11,796	-46	-0.4%
16.0%	11,694	11,560	-134	-1.1%
17.3%	11,577	11,521	-56	-0.5%
18.5%	11,570	11,458	-112	-1.0%
19.8%	11,129	11,428	298	2.7%
21.0%	11,041	11,425	383	3.5%
22.2%	11,037	11,386	349	3.2%
23.5%	10,905	11,298	393	3.6%
24.7%	10,885	11,117	232	2.1%
25.9%	10,846	11,068	222	2.0%
27.2%	10,546	11,003	457	4.3%
28.4%	10,501	10,629	128	1.2%
29.6%	10,492	10,501	9	0.1%
30.9%	10,424	10,274	-150	-1.4%
32.1%	10,319	10,206	-114	-1.1%
33.3%	10,079	10,125	46	0.5%
34.6%	9,888	9,915	26	0.3%
35.8%	9,636	9,814	178	1.8%
37.0%	9,272	9,481	209	2.3%
38.3%	9,172	9,262	90	1.0%
39.5%	9,063	9,085	1	0.0%
40.7%	8,953	9,026	73	0.8%
42.0%	8,836	8,892	56	0.5%
43.2%	8,657	8,657	0	0.0%
44.4%	8,647	8,637	-9	-0.1%
45.7%	8,261	8,550	289	3.5%
46.9%	8,132	8,454	322	4.0%
48.1%	8,131	8,339	207	2.5%
49.4%	8,126	8,137	11	0.1%
50.6%	7,867	7,887	20	0.3%
51.9%	7,637	7,828	191	2.5%
53.1%	7,513	7,717	204	2.7%
54.3%	7,427	7,705	278	3.7%
55.6%	7,379	7,588	209	2.8%
56.8%	7,375	7,570	194	2.6%
58.0%	7,269	7,513	244	3.3%
59.3%	7,203	7,445	241	3.3%
60.5%	7,148	7,416	269	3.8%
61.7%	7,114	7,267	153	2.1%
63.0%	7,090	7,111	61	0.9%
64.2%	6,956	6,976	20	0.3%
65.4%	6,782	6,885	103	1.5%
66.7%	6,697	6,833	136	2.0%
67.9%	6,588	6,496	-92	-1.4%
69.1%	6,524	6,493	-31	-0.5%
70.4%	6,467	6,492	25	0.4%
71.6%	6,410	6,429	19	0.3%
72.8%	6,402	6,408	6	0.1%
74.1%	6,343	6,285	-59	-0.9%
75.3%	6,190	5,891	-299	-4.8%
76.5%	5,949	5,821	-128	-2.2%
77.8%	5,836	5,808	-28	-0.5%
79.0%	5,781	5,701	-80	-1.4%
80.2%	5,593	5,696	103	1.8%
81.5%	5,587	5,428	-159	-2.9%
82.7%	5,572	5,366	-206	-3.7%
84.0%	5,516	5,265	-252	-4.6%
85.2%	5,378	5,130	-248	-4.6%
86.4%	5,220	4,906	-314	-6.0%
87.7%	5,213	4,812	-402	-7.7%
88.9%	5,153	4,799	-354	-6.9%
90.1%	5,140	4,792	-348	-6.8%
91.4%	4,910	4,701	-209	-4.3%
92.6%	4,871	4,435	-435	-8.9%
93.8%	4,790	4,418	-372	-7.8%
95.1%	4,710	4,330	-379	-8.1%
96.3%	4,596	4,223	-373	-8.1%
97.5%	4,395	4,179	-216	-4.9%
98.8%	4,352	4,149	-203	-4.7%
100.0%	4,081	4,133	51	1.3%

December				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	44,323	44,322	-1	0.0%
1.2%	40,732	41,426	694	1.7%
2.5%	40,685	38,627	-2,058	-5.1%
3.7%	40,604	38,418	-2,186	-5.4%
4.9%	37,377	35,254	-2,123	-5.7%
6.2%	31,674	32,137	462	1.5%
7.4%	31,408	30,358	-1,050	-3.3%
8.6%	30,644	29,289	-1,655	-5.3%
9.9%	29,188	28,363	-825	-2.8%
11.1%	25,176	25,177	2	0.0%
12.3%	23,711	21,594	-2,117	-8.9%
13.6%	21,766	20,759	-1,007	-4.6%
14.8%	18,054	16,605	-1,450	-8.0%
16.0%	17,841	16,522	-1,319	-7.4%
17.3%	17,453	16,346	-1,106	-6.3%
18.5%	16,523	16,329	-195	-1.2%
19.8%	16,371	16,025	-345	-2.1%
21.0%	16,092	14,975	-1,117	-6.9%
22.2%	15,835	14,221	-1,614	-10.2%
23.5%	14,491	13,168	-1,323	-9.2%
24.7%	14,052	13,068	-984	-7.0%
25.9%	13,524	12,365	-1,159	-8.6%
27.2%	13,073	12,188	-885	-6.8%
28.4%	11,563	11,712	149	1.3%
29.6%	11,288	10,811	-476	-4.1%
30.9%	11,250	10,752	-498	-4.4%
32.1%	10,820	10,359	-460	-4.3%
33.3%	10,291	9,649	-642	-6.2%
34.6%	10,185	9,446	-739	-7.3%
35.8%	9,808	9,189	-619	-6.3%
37.0%	9,756	9,144	-612	-6.3%
38.3%	9,649	8,394	-1,255	-13.0%
39.5%	9,571	7,855	-1,716	-17.9%
40.7%	9,529	7,763	-1,766	-18.5%
42.0%	8,553	7,759	-794	-9.3%
43.2%	8,436	7,635	-801	-9.5%
44.4%	7,890	7,662	-229	-2.9%
45.7%	7,856	7,634	-222	-2.8%
46.9%	7,769	7,427	-342	-4.4%
48.1%	7,766	6,946	-820	-10.6%
49.4%	7,733	6,905	-828	-10.7%
50.6%	7,385	6,864	-521	-7.1%
51.9%	7,373	6,835	-538	-7.3%
53.1%	7,151	6,752	-400	-5.6%
54.3%	6,953	6,500	-453	-6.5%
55.6%	6,857	6,431	-426	-6.2%
56.8%	6,843	6,381	-461	-6.7%
58.0%	6,662	6,359	-303	-4.6%
59.3%	6,486	6,293	-193	-3.0%
60.5%	6,455	6,281	-175	-2.7%
61.7%	6,451	6,237	-215	-3.3%
63.0%	6,398	6,222	-176	-2.8%
64.2%	6,356	6,122	-234	-3.7%
65.4%	6,163	6,087	-76	-1.2%
66.7%	6,052	6,074	22	0.4%
67.9%	5,996	6,011	16	0.3%
69.1%	5,868	5,881	13	0.2%
70.4%	5,866	5,842	-25	-0.4%
71.6%	5,742	5,941	100	1.7%
72.8%	5,719	5,771	51	0.9%
74.1%	5,699	5,753	54	0.9%
75.3%	5,530	5,663	132	2.4%
76.5%	5,526	5,622	95	1.7%
77.8%	5,507	5,601	94	1.7%
79.0%	5,500	5,573	73	1.3%
80.2%	5,481	5,491	11	0.2%
81.5%	5,433	5,483	51	0.9%
82.7%	5,375	5,440	65	1.2%
84.0%	5,326	5,435	109	2.0%
85.2%	5,313	5,330	17	0.3%
86.4%	5,261	5,312	51	1.0%
87.7%	5,241	5,269	28	0.5%
8				

Table SW-12-b  
Sacramento River below Red Bluff Diversion Dam, Monthly Flow  
Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	88,545	86,424	-2,121	-2.4%	
1.2%	85,950	83,948	-1,802	-2.1%	
2.5%	59,759	59,357	-402	-0.7%	
3.7%	59,446	57,330	-2,116	-3.6%	
4.9%	58,589	56,879	-1,710	-2.9%	
6.2%	56,878	56,469	-410	-0.7%	
7.4%	50,901	50,834	-67	-0.1%	
8.6%	46,353	44,253	-2,099	-4.5%	
9.9%	44,263	42,291	-1,972	-4.5%	
11.1%	44,022	42,137	-1,886	-4.3%	
12.3%	41,078	41,505	427	1.0%	
13.6%	40,758	40,109	-649	-1.6%	
14.8%	40,164	39,399	-765	-1.9%	
16.0%	40,106	38,634	-1,474	-3.7%	
17.3%	38,421	38,421	0	0.0%	
18.5%	34,442	34,442	1	0.0%	
19.8%	33,379	31,242	-2,137	-6.4%	
21.0%	32,185	30,808	-1,377	-4.3%	
22.2%	31,456	30,269	-1,187	-3.8%	
23.5%	30,088	29,336	-753	-2.5%	
24.7%	28,456	27,955	-501	-1.8%	
25.9%	27,665	26,323	-1,342	-4.9%	
27.2%	25,349	23,236	-2,113	-8.3%	
28.4%	23,534	21,397	-2,136	-9.1%	
29.6%	21,958	20,345	-1,613	-7.3%	
30.9%	20,376	20,530	154	0.8%	
32.1%	18,736	19,287	551	2.9%	
33.3%	17,586	16,380	-1,206	-6.9%	
34.6%	16,782	15,471	-1,312	-7.8%	
35.8%	16,027	15,189	-838	-5.2%	
37.0%	15,365	13,907	-1,458	-9.5%	
38.3%	15,018	12,899	-2,119	-14.1%	
39.5%	14,003	11,955	-2,048	-14.6%	
40.7%	13,844	11,893	-1,951	-14.1%	
42.0%	13,697	11,718	-1,978	-14.4%	
43.2%	13,366	11,366	-2,000	-15.0%	
44.4%	13,071	11,505	-1,566	-12.0%	
45.7%	12,186	11,422	-764	-6.3%	
46.9%	12,086	11,417	-669	-5.5%	
48.1%	11,657	11,248	-409	-3.5%	
49.4%	11,610	10,189	-1,421	-12.2%	
50.6%	11,582	10,948	-634	-5.5%	
51.9%	11,424	9,967	-1,457	-12.8%	
53.1%	11,398	9,534	-1,864	-16.4%	
54.3%	11,246	9,461	-1,785	-15.9%	
55.6%	10,514	9,335	-1,179	-11.2%	
56.8%	10,049	9,363	-686	-6.8%	
58.0%	9,910	7,790	-2,120	-21.4%	
59.3%	9,858	7,767	-2,092	-21.2%	
60.5%	9,325	7,726	-1,599	-17.1%	
61.7%	8,985	7,270	-1,714	-19.1%	
63.0%	8,756	7,206	-1,550	-17.7%	
64.2%	8,590	7,128	-1,462	-17.0%	
65.4%	8,515	7,078	-1,438	-16.9%	
66.7%	8,394	6,867	-1,527	-18.2%	
67.9%	8,337	6,760	-1,577	-18.9%	
69.1%	7,931	6,633	-1,298	-16.4%	
70.4%	7,868	6,531	-1,337	-17.2%	
71.6%	7,797	6,472	-1,325	-17.0%	
72.8%	7,325	6,397	-928	-12.7%	
74.1%	7,270	6,345	-925	-12.7%	
75.3%	7,128	6,274	-854	-12.0%	
76.5%	7,113	6,213	-900	-12.6%	
77.8%	7,027	6,193	-834	-11.9%	
79.0%	6,836	5,850	-986	-14.4%	
80.2%	6,759	5,811	-948	-14.0%	
81.5%	6,569	5,793	-776	-11.8%	
82.7%	6,411	5,677	-734	-11.4%	
84.0%	5,989	5,511	-478	-8.0%	
85.2%	5,810	5,357	-453	-7.8%	
86.4%	5,583	5,109	-474	-8.5%	
87.7%	5,509	4,941	-568	-10.3%	
88.9%	5,445	4,932	-513	-9.4%	
90.1%	5,375	4,838	-537	-10.0%	
91.4%	5,364	4,537	-826	-15.4%	
92.6%	5,309	4,458	-851	-16.0%	
93.8%	5,250	4,395	-855	-16.3%	
95.1%	5,036	4,307	-729	-14.5%	
96.3%	5,017	4,419	-609	-12.1%	
97.5%	4,836	4,140	-696	-14.4%	
98.8%	4,776	4,350	-426	-8.9%	
100.0%	4,409	3,867	-541	-12.3%	

March					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	81,912	81,873	-39	0.0%	
1.2%	78,728	76,613	-2,115	-2.7%	
2.5%	56,404	55,335	-1,069	-1.9%	
3.7%	49,359	49,353	-6	0.0%	
4.9%	40,657	39,098	-1,558	-3.8%	
6.2%	35,455	33,330	-2,126	-6.0%	
7.4%	34,657	32,515	-2,142	-6.2%	
8.6%	33,932	31,811	-2,121	-6.2%	
9.9%	31,335	31,298	-37	-0.1%	
11.1%	29,484	27,367	-2,117	-7.2%	
12.3%	22,960	22,934	-26	-0.1%	
13.6%	22,849	21,843	-1,006	-4.4%	
14.8%	22,039	21,557	-482	-2.2%	
16.0%	21,714	21,462	-252	-1.2%	
17.3%	21,496	20,595	-900	-4.2%	
18.5%	20,739	19,177	-1,562	-7.5%	
19.8%	20,468	19,152	-1,316	-6.4%	
21.0%	20,350	19,131	-1,219	-6.0%	
22.2%	19,491	19,010	-481	-2.5%	
23.5%	19,156	18,838	-320	-1.7%	
24.7%	17,719	18,620	902	5.1%	
25.9%	16,434	17,703	1,269	7.7%	
27.2%	15,760	16,110	350	2.2%	
28.4%	15,513	14,477	-1,036	-6.7%	
29.6%	14,345	13,534	-811	-5.7%	
30.9%	14,391	13,702	-689	-4.8%	
32.1%	14,339	13,457	-881	-6.1%	
33.3%	14,140	13,419	-721	-5.1%	
34.6%	13,701	12,943	-758	-5.5%	
35.8%	13,505	12,271	-1,234	-9.1%	
37.0%	13,167	11,387	-1,780	-13.5%	
38.3%	13,148	11,051	-2,097	-16.0%	
39.5%	12,362	10,236	-2,125	-17.2%	
40.7%	11,990	9,979	-2,011	-16.8%	
42.0%	10,710	9,988	-722	-7.9%	
43.2%	10,764	8,508	-2,256	-21.0%	
44.4%	10,022	8,603	-1,420	-14.2%	
45.7%	9,961	8,444	-1,518	-15.2%	
46.9%	9,896	8,440	-1,456	-14.7%	
48.1%	9,773	7,839	-1,933	-19.8%	
49.4%	9,539	7,776	-1,764	-18.5%	
50.6%	9,534	7,728	-1,797	-18.9%	
51.9%	9,067	7,714	-1,353	-14.9%	
53.1%	8,928	7,702	-1,225	-13.7%	
54.3%	8,896	7,696	-1,200	-13.5%	
55.6%	8,721	7,652	-1,069	-12.3%	
56.8%	8,708	7,600	-1,108	-12.7%	
58.0%	8,329	7,536	-794	-9.5%	
59.3%	8,073	7,425	-648	-8.0%	
60.5%	8,062	7,406	-656	-8.1%	
61.7%	8,000	7,123	-877	-11.0%	
63.0%	7,928	6,948	-980	-12.4%	
64.2%	7,833	6,775	-1,058	-13.5%	
65.4%	7,788	6,592	-1,195	-15.3%	
66.7%	7,786	6,588	-1,198	-15.4%	
67.9%	7,784	6,485	-1,299	-16.7%	
69.1%	7,757	6,270	-1,487	-19.2%	
70.4%	7,603	6,214	-1,389	-18.3%	
71.6%	7,446	5,945	-1,501	-20.2%	
72.8%	7,135	5,871	-1,264	-17.7%	
74.1%	7,126	5,859	-1,267	-17.8%	
75.3%	6,885	5,805	-1,079	-15.7%	
76.5%	6,858	5,712	-1,146	-16.7%	
77.8%	6,595	5,697	-898	-14.1%	
79.0%	6,519	5,666	-853	-13.1%	
80.2%	6,492	5,569	-923	-14.2%	
81.5%	6,338	5,337	-1,001	-15.8%	
82.7%	5,980	5,228	-752	-12.6%	
84.0%	5,974	5,165	-810	-13.6%	
85.2%	5,875	5,072	-803	-13.7%	
86.4%	5,866	5,067	-799	-13.6%	
87.7%	5,814	5,014	-800	-13.8%	
88.9%	5,576	5,005	-571	-10.2%	
90.1%	5,352	4,922	-431	-8.0%	
91.4%	5,261	4,851	-410	-7.8%	
92.6%	5,127	4,782	-345	-6.7%	
93.8%	5,077	4,724	-352	-6.9%	
95.1%	4,961	4,678	-283	-5.7%	
96.3%	4,927	4,524	-403	-8.2%	
97.5%	4,679	4,509	-170	-3.6%	
98.8%	4,620	4,320	-300	-6.5%	
100.0%	4,305	4,254	-51	-1.2%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	42,595	40,718	-1,877	-4.4%	
1.2%	33,232	33,232	0	0.0%	
2.5%	27,679	27,679	0	0.0%	
3.7%	23,083	23,085	1	0.0%	
4.9%	20,982	20,983	1	0.0%	
6.2%	20,590	20,248	-342	-1.7%	
7.4%	18,736	18,737	1	0.0%	
8.6%	16,566	16,407	-159	-0.9%	
9.9%	17,054	17,052	-2	0.0%	
11.1%	16,749	16,203	-546	-3.3%	
12.3%	15,443	13,566	-1,877	-12.2%	
13.6%	15,303	13,253	-2,051	-13.4%	
14.8%	14,418	12,751	-1,666	-11.6%	
16.0%	14,293	12,370	-1,923	-13.5%	
17.3%	14,168	11,968	-2,200	-15.5%	
18.5%	12,094	11,918	-176	-1.5%	
19.8%	11,918	11,838	-80	-0.7%	
21.0%	11,839	11,628	-211	-1.8%	
22.2%	11,629	11,401	-228	-2.0%	
23.5%	11,617	11,121	-496	-4.3%	
24.7%	11,122	10,797	-326	-2.9%	
25.9%	10,593	10,202	-391	-3.7%	
27.2%	10,486	10,130	-356	-3.4%	
28.4%	10,030	9,488	-542	-5.6%	
29.6%	9,937	9,433	-504	-5.1%	
30.9%	9,466	9,124	-342	-3.8%	
32.1%	9,379	9,067	-312	-3.3%	
33.3%	9,319	8,993	-326	-3.5%	
34.6%	9,303	8,908	-394	-4.2%	
35.8%	9,301	8,863	-438	-4.7%	
37.0%	9,054	8,855	-210	-2.3%	
38.3%	8,948	8,845	-102	-1.1%	
39.5%	8,935	8,819	-116	-1.3%	
40.7%	8,880	8,719	-161	-1.8%	
42.0%	8,823	8,700	-123	-1.4%	
43.2%	8,785	8,651	-134	-1.5%	
44.4%	8,692	8,471	-221	-2.5%	
45.7%	8,550	8,452	-98	-1.1%	
46.9%	8,455	8,373	-82	-1.0%	
48.1%	8,452	8,365	-87	-1.0%	
49.4%	8,409	8,275	-134	-1.6%	
50.6%	8,339	8,028	-311	-3.7%	
51.9%	8,316	8,273	-43	-0.5%	
53.1%	8,278	8,175	-102	-1.2%	
54.3%	8,276	8,159	-117	-1.4%	
55.6%	8,226	8,122	-105	-1.3%	
56.8%	8,204	8,076	-128	-1.6%	
58.0%	8,169	8,028	-141	-1.7%	
59.3%	8,082	7,780	-302	-3.7%	
60.5%	8,028	7,774	-254	-3.2%	
61.7%	7,916	7,613	-303	-3.8%	
63.0%	7,845	7,556	-290	-3.7%	
64.2%	7,844	7,502	-342	-4.4%	
65.4%	7,817	7			

**Table SW-12-b**  
 Sacramento River below Red Bluff Diversion Dam, Monthly Flow  
 Probability of Exceedance

June					July					August					September				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	14,880	15,045	165	1.1%	0.0%	15,352	18,739	3,387	22.1%	0.0%	13,107	13,055	-52	-0.4%	0.0%	16,515	16,355	-160	-1.0%
1.2%	14,755	14,975	220	1.5%	1.2%	15,162	18,271	3,110	20.5%	1.2%	12,739	12,703	-36	-0.3%	1.2%	15,850	15,866	164	1.0%
2.5%	14,171	14,304	133	0.9%	2.5%	15,111	15,577	467	3.1%	2.5%	12,457	11,648	-811	-6.5%	2.5%	15,685	15,549	-137	-0.9%
3.7%	14,147	14,136	-12	-0.1%	3.7%	15,097	15,185	88	0.6%	3.7%	12,426	11,559	-867	-7.0%	3.7%	15,572	15,277	-295	-1.9%
4.9%	14,117	13,837	-279	-2.0%	4.9%	14,953	15,137	184	1.2%	4.9%	12,288	11,349	-939	-7.6%	4.9%	15,437	15,203	-234	-1.5%
6.2%	13,928	13,810	-118	-0.8%	6.2%	14,921	15,097	176	1.2%	6.2%	12,201	11,206	-994	-8.1%	6.2%	15,382	15,166	-216	-1.4%
7.4%	13,880	13,741	-140	-1.0%	7.4%	14,847	15,026	179	1.2%	7.4%	11,934	10,943	-991	-8.3%	7.4%	15,338	15,091	-247	-1.6%
8.6%	13,877	13,395	-482	-3.5%	8.6%	14,815	15,004	189	1.3%	8.6%	11,663	10,921	-743	-6.4%	8.6%	15,327	15,065	-263	-1.7%
9.9%	13,864	13,982	118	0.9%	9.9%	14,789	14,983	215	1.5%	9.9%	11,680	10,911	-769	-6.6%	9.9%	15,225	15,047	-178	-1.2%
11.1%	13,485	12,696	-789	-5.9%	11.1%	14,744	14,894	150	1.0%	11.1%	11,609	10,906	-704	-6.1%	11.1%	15,194	14,920	-273	-1.8%
12.3%	13,427	12,668	-760	-5.7%	12.3%	14,708	14,891	184	1.2%	12.3%	11,328	10,898	-430	-3.8%	12.3%	14,867	14,866	-1	0.0%
13.6%	13,418	12,509	-909	-6.8%	13.6%	14,688	14,837	149	1.0%	13.6%	11,157	10,831	-326	-2.9%	13.6%	14,694	14,739	45	0.3%
14.8%	13,413	12,204	-1,209	-9.0%	14.8%	14,667	14,827	160	1.1%	14.8%	11,150	10,604	-547	-4.9%	14.8%	14,244	14,349	105	0.7%
16.0%	13,155	12,136	-1,020	-7.8%	16.0%	14,667	14,793	126	0.9%	16.0%	11,063	10,485	-578	-5.2%	16.0%	13,028	14,314	1,287	9.9%
18.5%	12,973	12,061	-912	-7.0%	18.5%	14,617	14,765	148	1.0%	18.5%	10,731	10,376	-355	-3.3%	18.5%	11,930	12,833	903	7.6%
19.8%	12,930	11,982	-948	-7.3%	19.8%	14,597	14,759	162	1.1%	19.8%	10,626	10,375	-252	-2.4%	19.8%	11,792	12,583	791	6.7%
21.0%	12,892	11,912	-980	-7.6%	21.0%	14,596	14,717	121	0.8%	21.0%	10,623	10,321	-302	-2.8%	21.0%	11,776	11,957	181	1.5%
22.2%	12,774	11,850	-924	-7.2%	22.2%	14,578	14,716	138	0.9%	22.2%	10,520	10,282	-238	-2.3%	22.2%	11,543	12,077	534	4.6%
23.5%	12,517	11,840	-678	-5.4%	23.5%	14,548	14,708	160	1.1%	23.5%	10,500	10,272	-227	-2.2%	23.5%	11,721	11,375	-346	-3.0%
24.7%	12,471	11,822	-650	-5.2%	24.7%	14,520	14,696	176	1.2%	24.7%	10,471	10,252	-220	-2.1%	24.7%	11,501	11,289	-212	-1.8%
25.9%	12,416	11,773	-643	-5.2%	25.9%	14,455	14,672	217	1.5%	25.9%	10,450	10,195	-256	-2.4%	25.9%	11,486	10,837	-649	-5.7%
27.2%	12,401	11,772	-629	-5.1%	27.2%	14,440	14,613	173	1.2%	27.2%	10,372	10,146	-226	-2.2%	27.2%	11,382	10,622	-760	-6.7%
28.4%	12,367	11,719	-649	-5.2%	28.4%	14,434	14,605	171	1.2%	28.4%	10,371	10,123	-248	-2.4%	28.4%	10,772	10,548	-225	-2.1%
29.6%	12,328	11,615	-713	-5.8%	29.6%	14,427	14,580	153	1.1%	29.6%	10,327	10,079	-249	-2.4%	29.6%	10,392	10,514	122	1.2%
30.9%	12,236	11,381	-855	-7.0%	30.9%	14,426	14,576	150	1.0%	30.9%	10,313	10,069	-243	-2.4%	30.9%	10,682	9,897	-785	-7.3%
32.1%	12,234	11,350	-884	-7.2%	32.1%	14,419	14,553	134	0.9%	32.1%	10,279	10,035	-244	-2.4%	32.1%	10,552	9,767	-785	-7.4%
33.3%	12,147	11,343	-804	-6.6%	33.3%	14,415	14,526	110	0.8%	33.3%	10,229	10,032	-197	-1.9%	33.3%	9,891	9,749	-141	-1.4%
34.6%	12,130	11,327	-803	-6.6%	34.6%	14,338	14,509	171	1.2%	34.6%	10,153	10,022	-131	-1.3%	34.6%	9,567	9,239	-328	-3.4%
35.8%	12,126	11,257	-869	-7.2%	35.8%	14,328	14,497	169	1.2%	35.8%	10,029	10,018	-12	-0.1%	35.8%	9,356	9,228	-128	-1.4%
37.0%	12,122	11,141	-981	-8.1%	37.0%	14,324	14,477	153	1.1%	37.0%	9,996	10,000	4	0.0%	37.0%	8,748	8,804	146	1.7%
38.3%	12,096	11,114	-982	-8.1%	38.3%	14,316	14,462	146	1.0%	38.3%	9,983	9,997	14	0.1%	38.3%	8,654	8,822	168	1.9%
39.5%	11,918	11,003	-915	-7.7%	39.5%	14,314	14,447	133	0.9%	39.5%	9,949	9,962	13	0.1%	39.5%	8,568	8,500	-67	-0.8%
40.7%	11,795	10,981	-814	-6.9%	40.7%	14,305	14,398	93	0.7%	40.7%	9,902	9,900	-2	-0.0%	40.7%	8,392	8,493	100	1.2%
42.0%	11,751	10,961	-790	-6.7%	42.0%	14,303	14,380	77	0.5%	42.0%	9,868	9,858	-9	0.1%	42.0%	8,381	8,449	68	0.8%
43.2%	11,737	10,737	-1,000	-8.5%	43.2%	14,285	14,343	58	0.4%	43.2%	9,859	9,749	-109	-1.1%	43.2%	8,351	7,991	-360	-4.3%
44.4%	11,644	10,936	-707	-6.1%	44.4%	14,282	14,321	39	0.3%	44.4%	9,767	9,850	83	0.9%	44.4%	7,571	7,779	208	2.8%
45.7%	11,414	10,916	-498	-4.4%	45.7%	14,251	14,315	65	0.5%	45.7%	9,654	9,843	189	2.0%	45.7%	7,507	7,460	-47	-0.6%
46.9%	11,367	10,868	-499	-4.4%	46.9%	14,250	14,062	-188	-1.3%	46.9%	9,579	9,801	222	2.3%	46.9%	7,463	7,432	-31	-0.4%
48.1%	11,302	10,831	-471	-4.2%	48.1%	14,227	13,972	-255	-1.8%	48.1%	9,510	9,800	290	3.1%	48.1%	7,366	7,325	-41	-0.6%
49.4%	11,295	10,827	-468	-4.1%	49.4%	14,181	13,937	-244	-1.7%	49.4%	9,502	9,797	295	3.1%	49.4%	7,352	7,084	-269	-3.7%
50.6%	11,287	10,811	-476	-4.2%	50.6%	14,181	13,829	-352	-2.5%	50.6%	9,478	9,877	399	4.2%	50.6%	7,349	7,053	-296	-4.0%
51.9%	11,250	10,794	-457	-4.1%	51.9%	14,142	13,752	-390	-2.8%	51.9%	9,461	9,759	298	3.1%	51.9%	7,343	6,883	-459	-6.3%
53.1%	11,246	10,777	-469	-4.2%	53.1%	14,117	13,654	-463	-3.3%	53.1%	9,422	9,733	311	3.3%	53.1%	7,169	6,868	-301	-4.2%
54.3%	11,132	10,711	-422	-3.8%	54.3%	14,036	13,638	-397	-2.8%	54.3%	9,370	9,673	303	3.2%	54.3%	6,979	6,777	-192	-2.8%
55.6%	11,076	10,672	-404	-3.6%	55.6%	13,961	13,609	-352	-2.5%	55.6%	9,364	9,730	366	3.9%	55.6%	6,899	6,776	-123	-1.8%
56.8%	11,051	10,656	-395	-3.6%	56.8%	13,957	13,446	-511	-3.7%	56.8%	9,357	9,725	368	3.9%	56.8%	6,823	6,648	-175	-2.6%
58.0%	10,941	10,656	-285	-2.6%	58.0%	13,883	13,348	-535	-3.9%	58.0%	9,326	9,691	364	3.9%	58.0%	6,466	6,570	104	1.6%
59.3%	10,861	10,578	-283	-2.6%	59.3%	13,849	13,164	-685	-4.9%	59.3%	9,323	9,669	346	3.7%	59.3%	6,432	6,559	127	2.0%
60.5%	10,846	10,572	-274	-2.5%	60.5%	13,793	13,144	-649	-4.7%	60.5%	9,296	9,688	372	4.0%	60.5%	6,168	6,554	387	6.3%
61.7%	10,843	10,534	-309	-2.9%	61.7%	13,747	13,078	-669	-4.9%	61.7%	9,260	9,665	404	4.4%	61.7%	5,969	6,539	570	9.6%
63.0%	10,756	10,524	-232	-2.2%	63.0%	13,694	13,043	-651	-4.8%	63.0%	9,242	9,663	421	4.6%	63.0%	5,940	6,506	566	9.5%
64.2%	10,704	10,514	-190	-1.8%	64.2%	13,669	13,037	-632	-4.6%	64.2%	9,204	9,693	489	5.0%	64.2%	5,798	6,487	689	11.9%
65.4%	10,692	10,505	-187	-1.8%	65.4%	13,529	12,899	-630	-4.7%	65.4%	9,140	9,655	515	5.6%	65.4%	5,711	6,441	730	12.8%
66.7%	10,632	10,478	-154	-1.5%	66.7%	13,341	12,880	-461	-3.5%	66.7%	9,106	9,635	529	5.8%	66.7%	5,630	6,426	796	14.1%
67.9%	10,625	10,412	-213	-2.0%	67.9%	13,337	12,668	-669	-5.0%	67.9%	9,075	9,609	534	5.9%	67.9%	5,597	6,299	702	12.5%
69.1%	10,612	10,377	-234	-2.2%	69.1%	13,334	12,549	-785	-5.9%	69.1%	9,023	9,608	585	6.5%	69.1%	5,596	6,283	687	12.3%
70.4%	10,583	10,374	-209	-2.0%	70.4%	13,247	12,540	-707	-5.3%	70.4%	8,963	9,583	620	6.9%	70.4%	5,530	6,263	732	13.2%
71.6%	10,555	10,363	-192	-1.8%	71.6%	13,212	12,531	-681	-5.2%	71.6%	8,952	9,572	620	6.9%	71.6%	5,522	6,263	740	13.4%
72.8%	10,511	10,301	-210	-2.0%	72.8%	13,175	12,377	-798	-6.1%	72.8%	8,951	9,549	598	6.7%	72.8%	5,491	6,252	761	13.9%
74.1%	10,493	10,276	-217	-2.1%	74.1%	13,168	12,305	-863	-6.6%	74.1%	8,845	9,528	683	7.7%	74.1%	5,449	6,249	800	14.7%
75.3%	10,373	10,260	-113	-1.1%	75.3%	12,890	12,291	-599	-4.6%	75.3%	8,836	9,509	673	7.6%	75.3%	5,355	6,248	893	16.7%
76.5%	10,285	10,246	-40	-0.4%	76.5%	12,848	12,290	-558	-4.3%	76.5%	8,736	9,502	766	8.8%	76.5%	5,225	6,245	1,020	19.5%
77.8%	10,207	10,125	-81	-0.8%	77.8%	12,832	12,289												

**Figure SW-13-b**  
**Sacramento River below Hamilton City, Monthly Flow**  
**Probability of Exceedance**

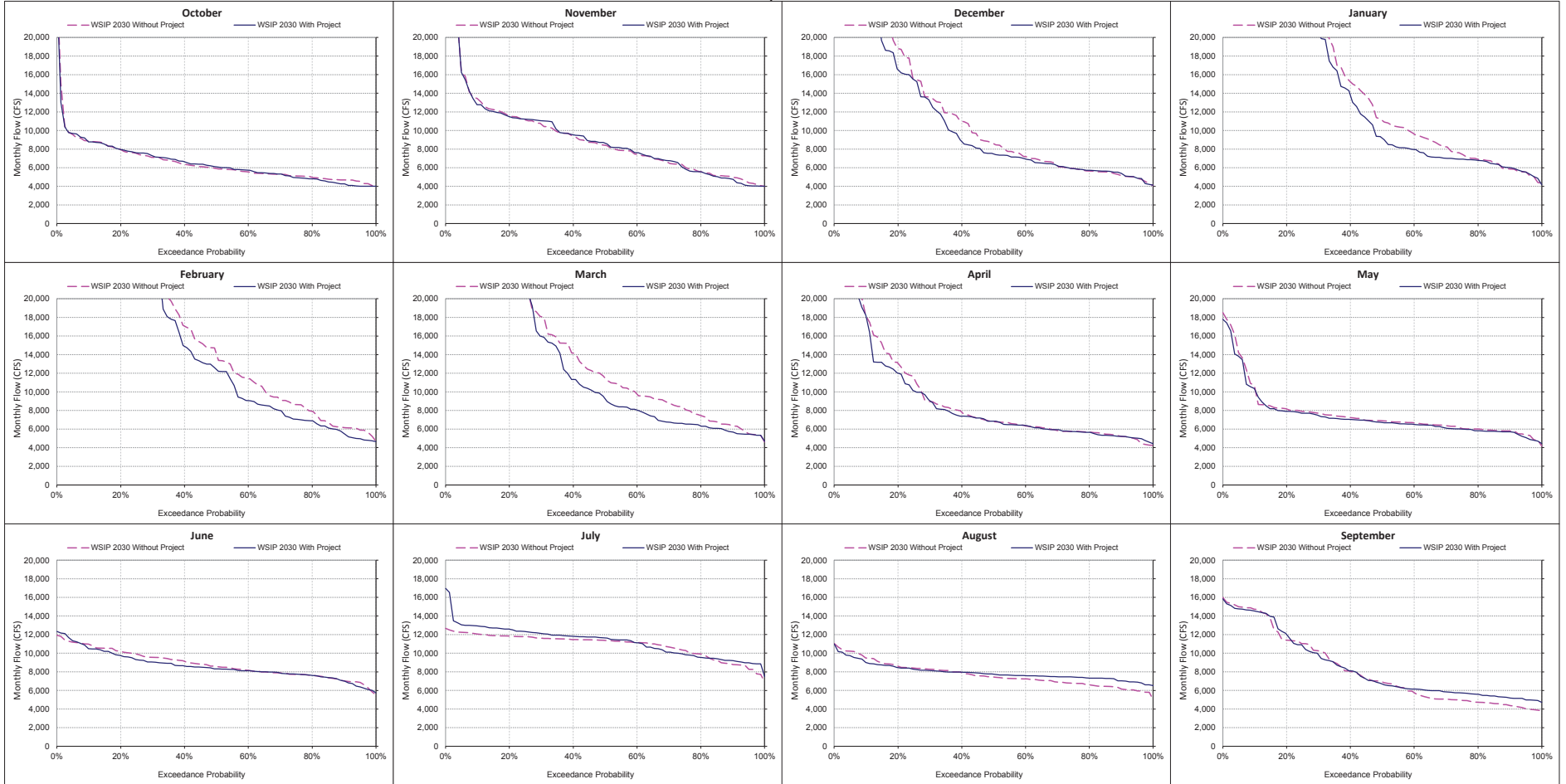


Table SW-13-b  
Sacramento River below Hamilton City, Monthly Flow  
Probability of Exceedance

October					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	26,159	25,407	-752	-2.9%	
1.2%	15,151	13,010	-2,141	-14.1%	
2.5%	10,445	10,382	-63	-0.6%	
3.7%	9,807	9,779	-28	-0.3%	
4.9%	9,575	9,633	102	1.1%	
6.2%	9,218	9,637	419	4.5%	
7.4%	9,192	9,933	101	1.1%	
8.6%	8,521	9,195	275	3.1%	
9.9%	8,951	8,793	-152	-1.7%	
11.1%	8,813	8,766	-47	-0.5%	
12.3%	8,791	8,733	-59	-0.7%	
13.6%	8,749	8,702	-47	-0.5%	
14.8%	8,647	8,555	-92	-1.1%	
16.0%	8,318	8,324	9	0.1%	
17.3%	8,244	8,307	63	0.8%	
18.5%	8,091	8,077	-14	-0.2%	
19.8%	8,007	7,984	-23	-0.3%	
21.0%	7,753	7,899	147	1.9%	
22.2%	7,641	7,774	133	1.7%	
23.5%	7,534	7,714	200	2.7%	
24.7%	7,577	7,596	19	0.3%	
25.9%	7,397	7,591	193	2.6%	
27.2%	7,233	7,579	256	3.5%	
28.4%	7,268	7,517	250	3.4%	
29.6%	7,117	7,313	196	2.8%	
30.9%	7,105	7,163	58	0.8%	
32.1%	7,081	7,115	34	0.5%	
33.3%	6,859	7,088	229	3.3%	
34.6%	6,820	7,047	227	3.3%	
35.8%	6,733	6,914	181	2.7%	
37.0%	6,669	6,895	226	3.4%	
38.3%	6,518	6,721	203	3.1%	
39.5%	6,342	6,697	355	5.6%	
40.7%	6,334	6,448	114	1.8%	
42.0%	6,262	6,410	148	2.4%	
43.2%	6,217	6,367	150	2.4%	
44.4%	6,117	6,384	268	4.4%	
45.7%	6,108	6,378	270	4.4%	
46.9%	6,053	6,259	206	3.4%	
48.1%	6,053	6,211	158	2.6%	
49.4%	5,946	6,123	177	3.0%	
50.6%	5,872	6,066	194	3.3%	
51.9%	5,857	6,016	159	2.7%	
53.1%	5,818	6,015	197	3.4%	
54.3%	5,803	5,971	168	2.9%	
55.6%	5,787	5,820	33	0.6%	
56.8%	5,687	5,813	127	2.2%	
58.0%	5,607	5,788	181	3.2%	
59.3%	5,580	5,749	169	3.0%	
60.5%	5,519	5,725	207	3.7%	
61.7%	5,410	5,577	167	3.1%	
63.0%	5,402	5,490	78	1.4%	
64.2%	5,394	5,470	76	1.4%	
65.4%	5,352	5,424	72	1.3%	
66.7%	5,337	5,390	53	1.0%	
67.9%	5,302	5,372	70	1.3%	
69.1%	5,302	5,317	15	0.3%	
70.4%	5,285	5,310	25	0.5%	
71.6%	5,270	5,145	-125	-2.4%	
72.8%	5,143	5,115	-28	-0.5%	
74.1%	5,142	4,960	-182	-3.5%	
75.3%	5,108	4,937	-171	-3.3%	
76.5%	5,101	4,907	-194	-3.8%	
77.8%	5,082	4,855	-227	-4.5%	
79.0%	5,073	4,821	-252	-5.0%	
80.2%	4,935	4,810	-125	-2.5%	
81.5%	4,919	4,780	-139	-2.8%	
82.7%	4,851	4,628	-223	-4.6%	
84.0%	4,831	4,584	-247	-5.1%	
85.2%	4,750	4,461	-289	-6.3%	
86.4%	4,725	4,449	-277	-5.9%	
87.7%	4,721	4,338	-382	-8.1%	
88.9%	4,689	4,268	-421	-9.0%	
90.1%	4,683	4,258	-425	-9.1%	
91.4%	4,591	4,097	-494	-10.8%	
92.6%	4,680	4,083	-596	-12.7%	
93.8%	4,565	4,039	-526	-11.5%	
95.1%	4,538	4,024	-514	-11.3%	
96.3%	4,294	4,016	-278	-6.5%	
97.5%	4,286	4,013	-273	-6.4%	
98.8%	4,078	4,012	-66	-1.6%	
100.0%	3,988	4,004	16	0.4%	

November					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	35,160	33,491	-1,669	-4.7%	
1.2%	30,990	31,782	792	2.6%	
2.5%	23,318	22,067	-1,251	-5.4%	
3.7%	22,072	21,779	-293	-1.3%	
4.9%	16,263	16,262	0	0.0%	
6.2%	15,815	15,438	-377	-2.4%	
7.4%	14,181	14,229	48	0.3%	
8.6%	13,583	13,427	-156	-1.1%	
9.9%	13,452	12,784	-668	-5.0%	
11.1%	13,054	12,784	-270	-2.1%	
12.3%	12,549	12,340	-209	-1.7%	
13.6%	12,328	12,102	-226	-1.8%	
14.8%	12,267	12,060	-207	-1.7%	
16.0%	12,152	11,946	-206	-1.7%	
17.3%	12,035	11,875	-160	-1.3%	
18.5%	11,832	11,684	-148	-1.3%	
19.8%	11,593	11,524	-69	-0.6%	
21.0%	11,501	11,382	-119	-1.0%	
22.2%	11,471	11,334	-137	-1.2%	
23.5%	11,284	11,252	-32	-0.4%	
24.7%	11,175	11,229	54	0.5%	
25.9%	11,046	11,201	155	1.4%	
27.2%	11,044	11,164	120	1.1%	
28.4%	10,794	11,122	328	3.0%	
29.6%	10,789	11,029	240	2.5%	
30.9%	10,425	11,034	609	5.8%	
32.1%	10,408	11,014	606	5.8%	
33.3%	10,248	10,955	707	6.9%	
34.6%	9,945	10,167	222	2.2%	
35.8%	9,725	9,779	54	0.6%	
37.0%	9,712	9,711	-1	0.0%	
38.3%	9,704	9,696	-8	-0.1%	
39.5%	9,456	9,570	114	1.2%	
40.7%	9,298	9,480	181	2.0%	
42.0%	9,012	9,452	440	4.9%	
43.2%	8,965	9,363	398	4.4%	
44.4%	8,740	8,921	181	2.1%	
45.7%	8,729	8,834	105	1.2%	
46.9%	8,693	8,821	129	1.5%	
48.1%	8,497	8,732	235	2.8%	
49.4%	8,439	8,719	281	3.3%	
50.6%	8,066	8,379	314	3.9%	
51.9%	8,086	8,203	117	1.4%	
53.1%	7,981	8,180	199	2.5%	
54.3%	7,878	8,172	294	3.7%	
55.6%	7,855	8,097	242	3.1%	
56.8%	7,821	8,094	273	3.5%	
58.0%	7,757	7,911	154	1.9%	
59.3%	7,277	7,640	363	2.2%	
60.5%	7,415	7,614	198	2.7%	
61.7%	7,285	7,438	152	2.1%	
63.0%	7,275	7,302	27	0.4%	
64.2%	7,174	7,231	57	0.8%	
65.4%	6,956	6,978	22	0.3%	
66.7%	6,887	6,974	87	1.3%	
67.9%	6,782	6,869	87	1.3%	
69.1%	6,671	6,774	103	1.5%	
70.4%	6,448	6,757	309	4.8%	
71.6%	6,398	6,670	271	4.2%	
72.8%	6,386	6,556	170	2.7%	
74.1%	6,361	6,103	-258	-4.1%	
75.3%	6,000	5,836	-164	-2.7%	
76.5%	5,844	5,625	-219	-3.7%	
77.8%	5,839	5,590	-249	-4.3%	
79.0%	5,629	5,585	-44	-0.8%	
80.2%	5,541	5,544	3	0.0%	
81.5%	5,449	5,388	-60	-1.1%	
82.7%	5,418	5,274	-144	-2.7%	
84.0%	5,160	5,098	-62	-1.2%	
85.2%	5,154	5,045	-109	-2.1%	
86.4%	5,146	4,905	-242	-4.7%	
87.7%	5,102	4,885	-217	-4.2%	
88.9%	5,074	4,846	-228	-4.5%	
90.1%	4,955	4,744	-211	-4.3%	
91.4%	4,841	4,570	-271	-5.6%	
92.6%	4,797	4,312	-485	-10.1%	
93.8%	4,607	4,131	-476	-10.3%	
95.1%	4,374	4,080	-295	-6.7%	
96.3%	4,316	4,032	-284	-6.6%	
97.5%	4,197	4,031	-166	-3.9%	
98.8%	4,019	4,019	-3	-0.1%	
100.0%	4,000	4,013	13	0.3%	

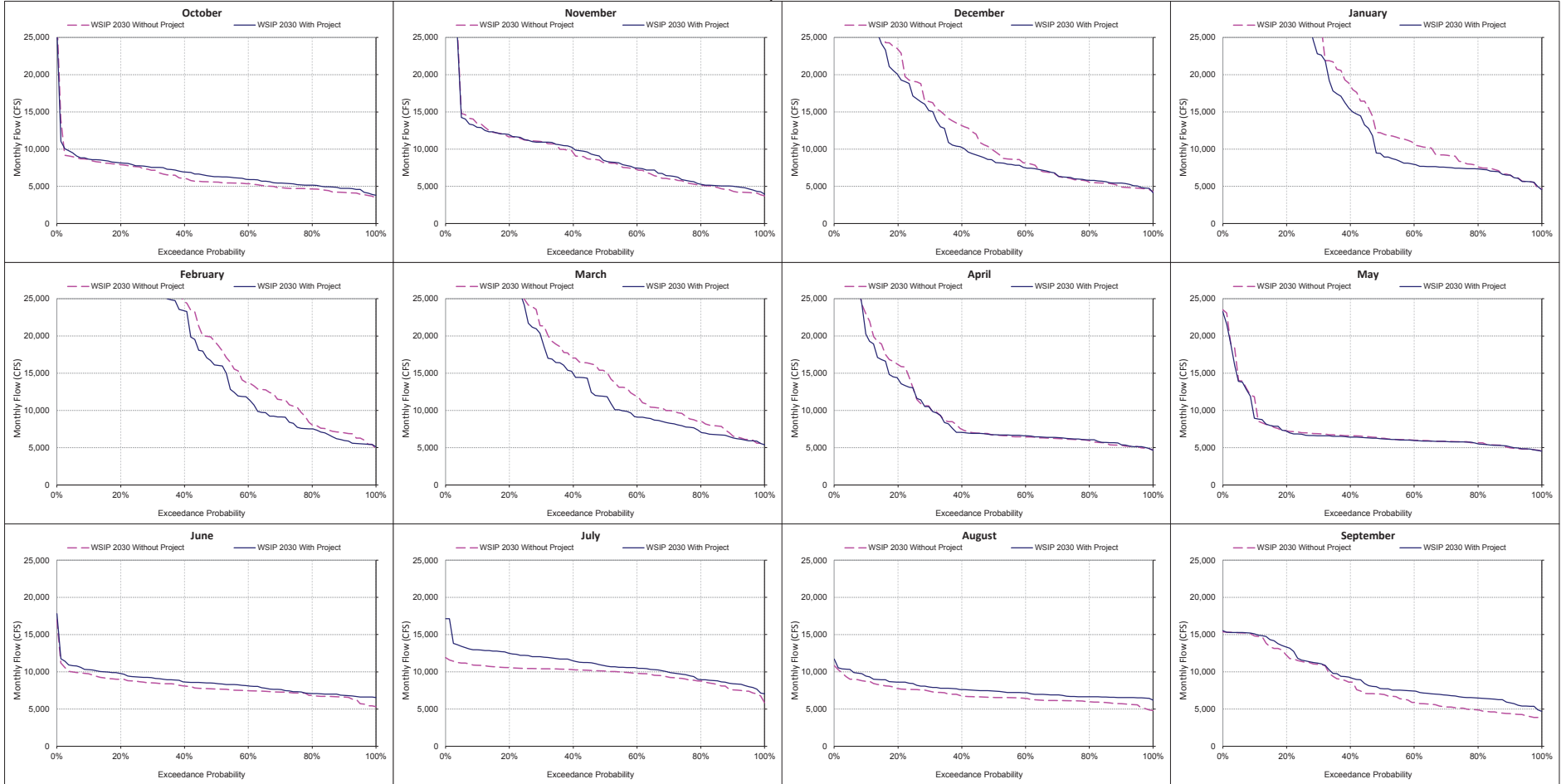
December					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	51,598	51,597	-1	0.0%	
1.2%	48,170	46,681	-1,489	-3.1%	
2.5%	45,939	45,984	44	0.1%	
3.7%	45,087	41,543	-3,544	-7.9%	
4.9%	41,585	39,982	-1,603	-3.9%	
6.2%	38,789	38,022	-766	-2.0%	
7.4%	36,027	34,589	-1,438	-4.0%	
8.6%	35,382	32,468	-2,914	-8.2%	
9.9%	31,089	31,273	184	0.6%	
11.1%	28,479	28,481	2	0.0%	
12.3%	26,495	22,983	-3,512	-13.3%	
13.6%	25,429	22,939	-2,490	-9.8%	
14.8%	21,826	19,679	-2,147	-9.8%	
16.0%	21,513	18,633	-2,880	-13.4%	
17.3%	21,179	18,561	-2,618	-12.4%	
18.5%	19,680	18,358	-1,322	-6.7%	
19.8%	18,827	16,635	-2,192	-11.6%	
21.0%	18,723	16,195	-2,528	-13.5%	
22.2%	17,840	16,063	-1,777	-10.0%	
23.5%	17,801	15,993	-1,807	-10.2%	
24.7%	15,554	15,549	-5	0.0%	
25.9%	15,457	15,245	-212	-1.4%	
27.2%	15,296	13,634	-1,662	-10.9%	
28.4%	13,642	13,592	-50	-0.4%	
29.6%	13,604	13,324	-280	-2.1%	
30.9%	13,427	12,473	-954	-7.1%	
32.1%	13,090	12,125	-965	-7.4%	
33.3%	13,015	11,787	-1,229	-9.4%	
34.6%	11,906	11,032	-875	-7.3%	
35.8%	11,904	10,048	-1,856	-15.6%	
37.0%	11,786	9,865	-1,921	-16.3%	
38.3%	11,619	10,700	-919	-7.9%	
39.5%	11,014	9,013	-2,001	-18.2%	
40.7%	10,948	8,556	-2,391	-21.8%	
42.0%	10,742	8,462	-2,280	-21.2%	
43.2%	9,763	8,763	-1,000	-10.3%	
44.4%	9,701	8,132	-1,569	-16.2%	
45.7%	9,011	8,057	-954	-10.6%	
46.9%	8,891	7,615	-1,276	-14.4%	
48.1%	8,831	7,552	-1,279	-14.5%	
49.4%	8,687	7,545	-1,143	-13.2%	
50.6%	8,465	7,387	-1,078	-12.8%	
51.9%	8,423	7,343	-1,080	-12.8%	
53.1%	8,068	7,338	-730	-9.0%	
54.3%	7,752	7,317	-435	-5.6%	
55.6%	7,751	7,158	-593	-7.6%	
56.8%	7,594	7,153	-441	-5.8%	
58.0%	7,550	7,122	-428	-5.7%	
59.3%	7,227	7,016	-211	-2.9%	
60.5%	7,164	6,904	-260	-3.6%	
61.7%	6,995	6,832	-163	-2.3%	
63.0%	6,977	6,547	-431	-6.2%	
64.2%	6,852	6,514	-338	-4.9%	
65.4%	6,				







**Figure SW-14-b**  
**Sacramento River below Delevan Intake and Pipeline, Monthly Flow**  
**Probability of Exceedance**









**Figure SW-15-b**  
**Sacramento River at Wilken Slough, Monthly Flow**  
**Probability of Exceedance**

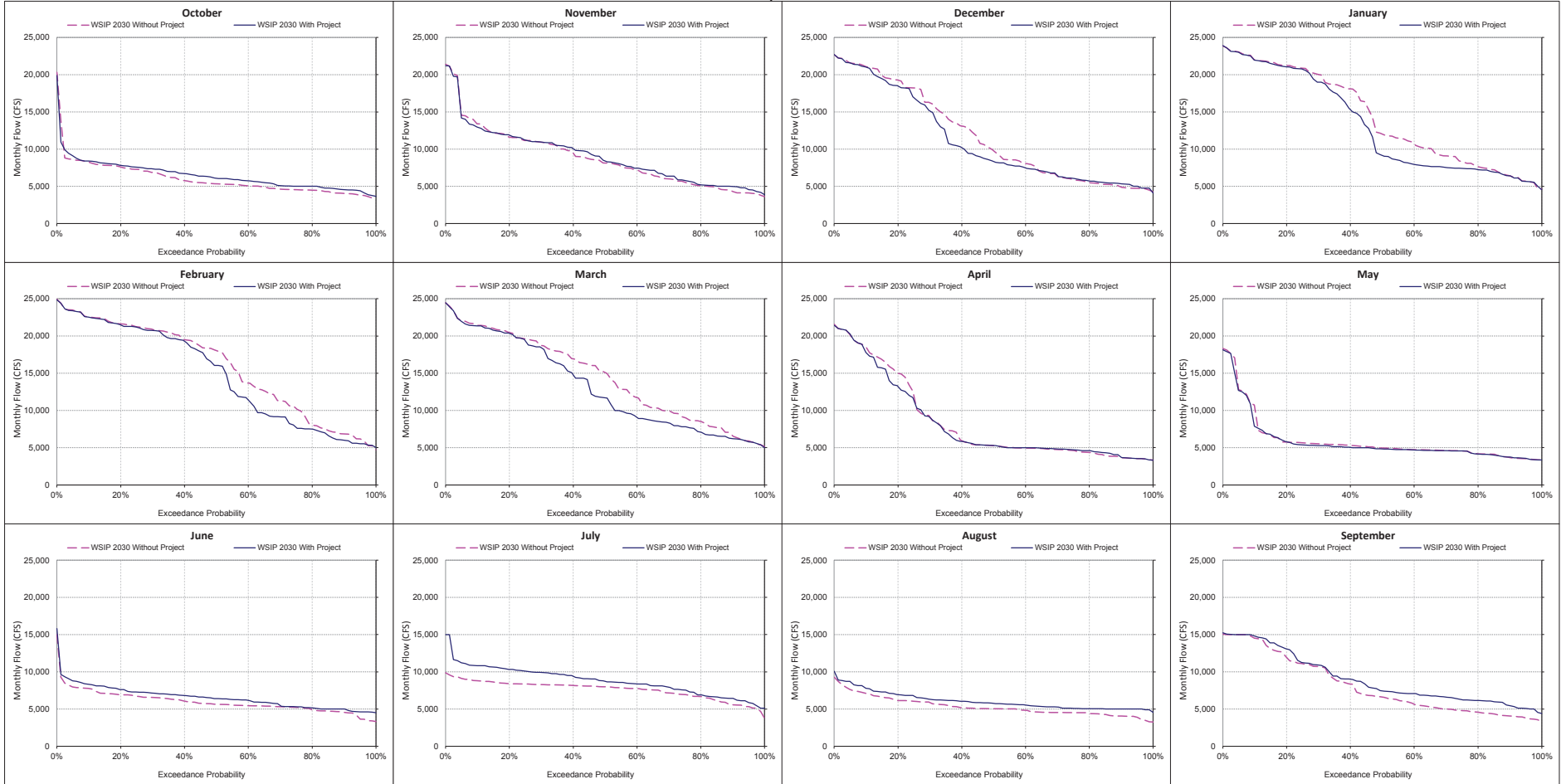










Figure SW-16-b  
Sacramento River at Verona, Monthly Flow  
Probability of Exceedance

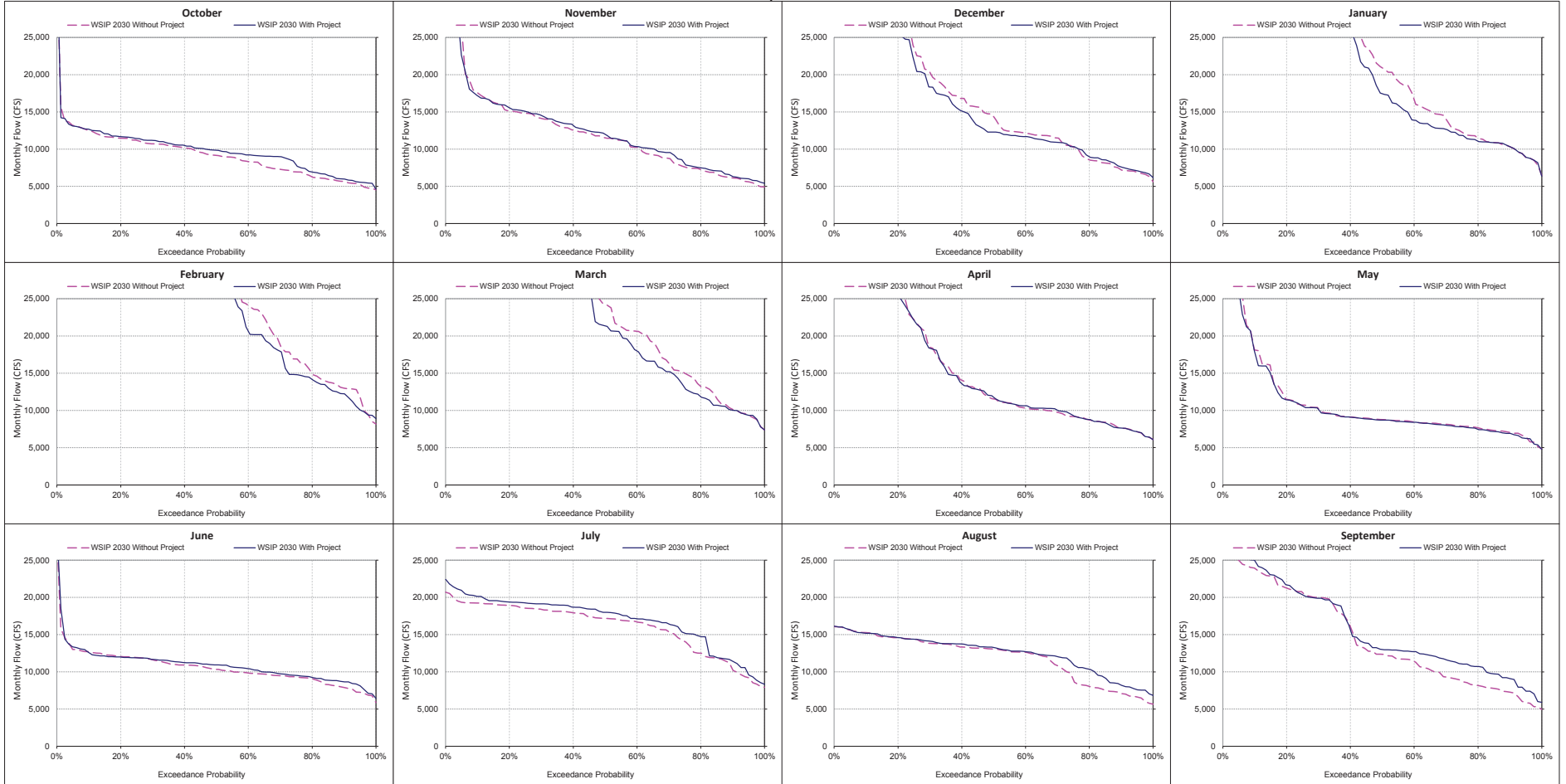








Figure SW-17-b  
Sacramento River at Freeport, Monthly Flow  
Probability of Exceedance

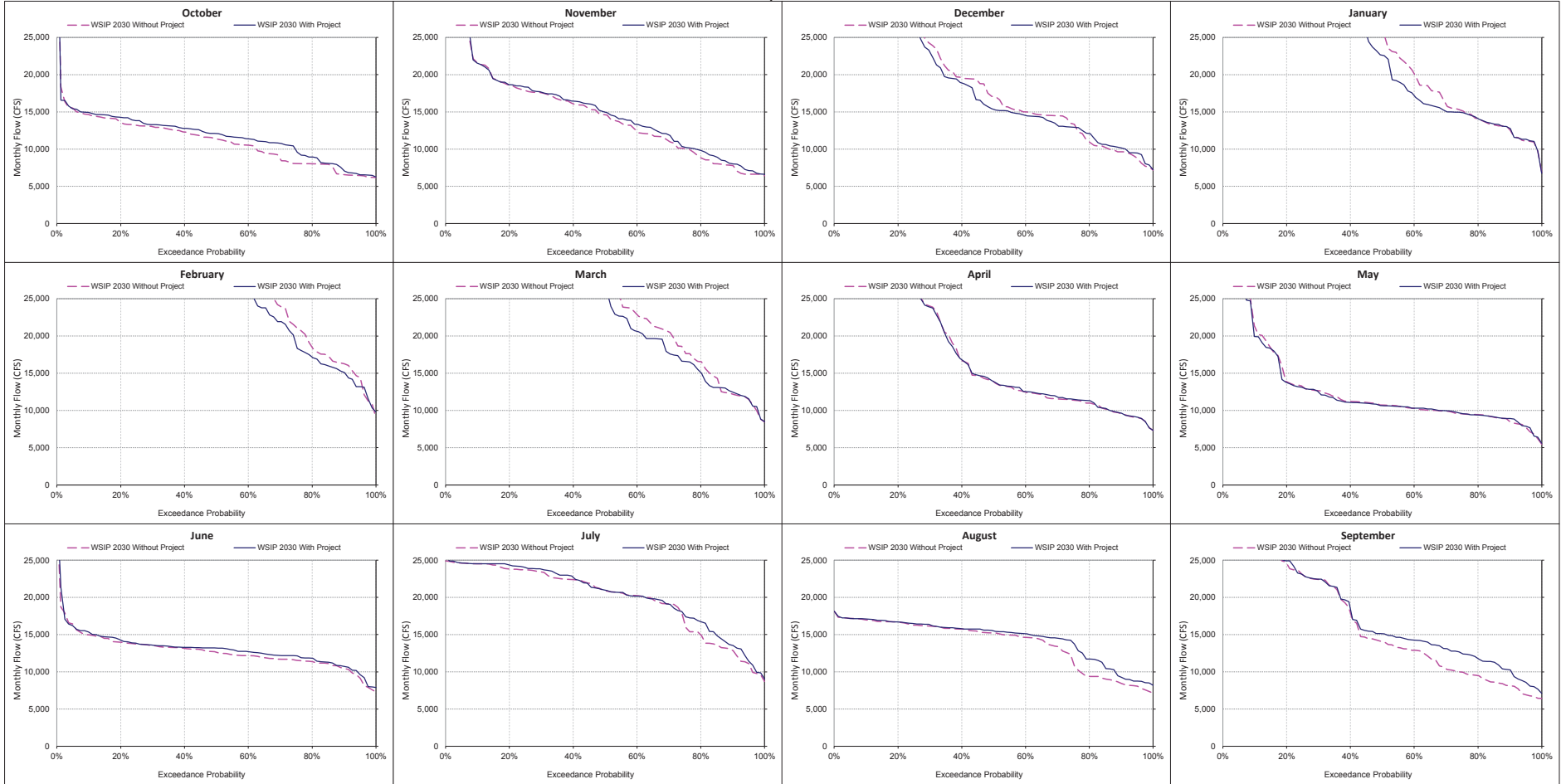








Table SW-17-b  
Sacramento River at Freeport, Monthly Flow  
Probability of Exceedance

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference (CFS), Relative Difference (%), and columns for the month of June.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference (CFS), Relative Difference (%), and columns for the month of July.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference (CFS), Relative Difference (%), and columns for the month of August.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference (CFS), Relative Difference (%), and columns for the month of September.

Figure SW-18-b  
Lake Oroville, End of Month Storage  
Probability of Exceedance

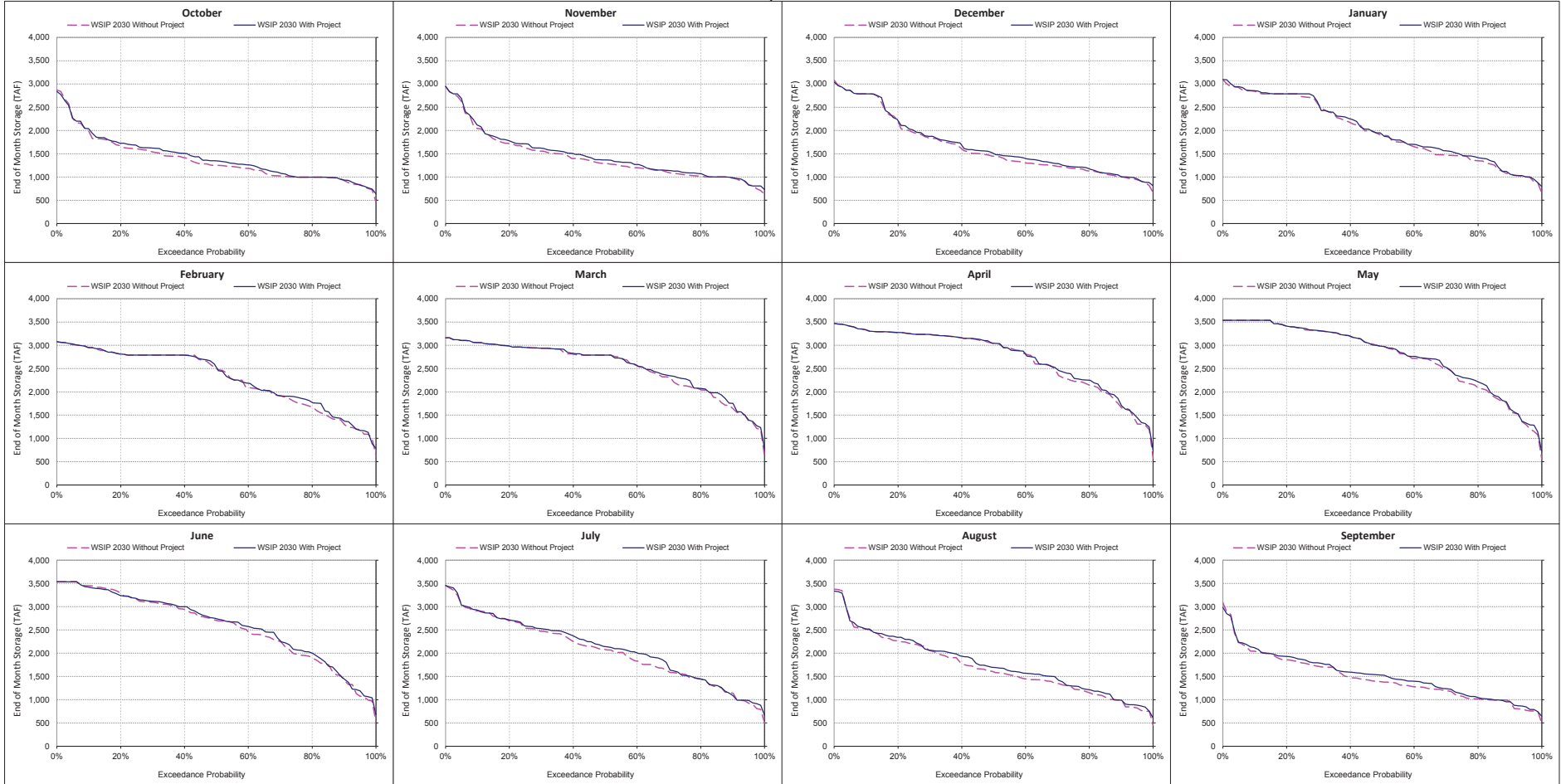








Figure SW-19-b  
Lake Oroville, End of Month Elevation  
Probability of Exceedance

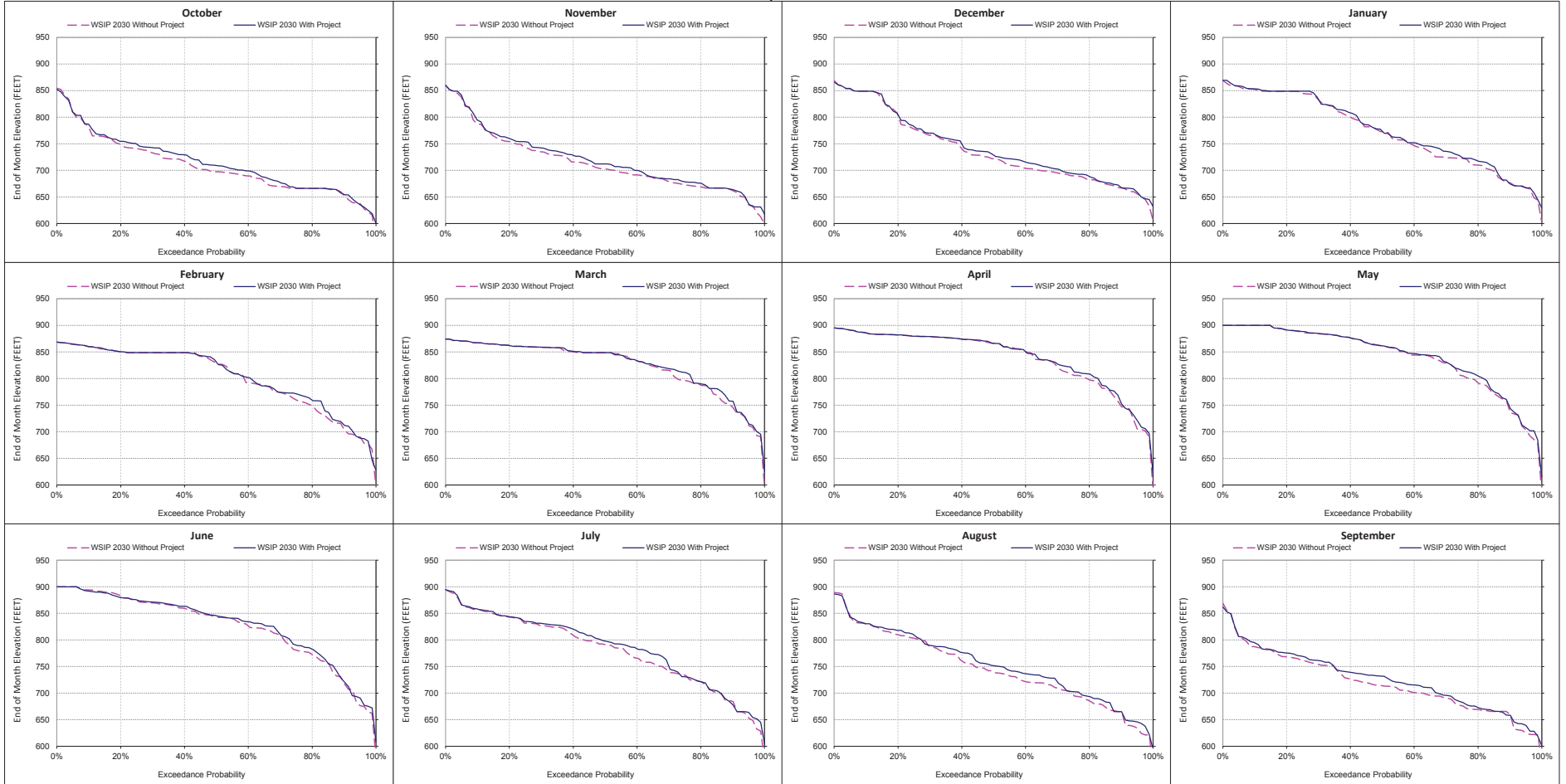










Figure SW-20-b  
Lake Oroville, End of Month Area  
Probability of Exceedance

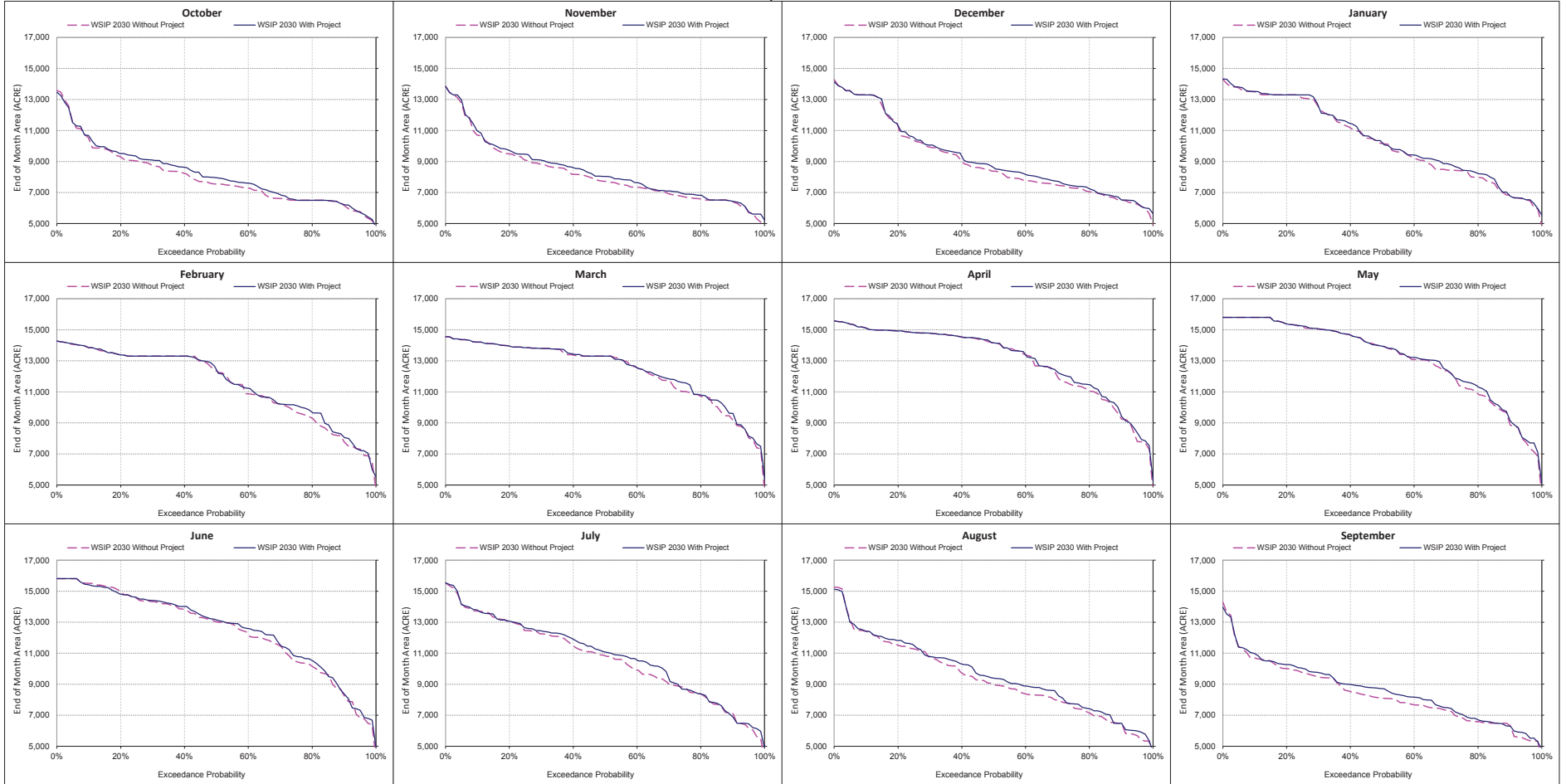




Table SW-20-b  
Lake Oroville, End of Month Area  
Probability of Exceedance

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference, Relative Difference. Rows represent probability levels from 0.0% to 100.0% for the month of February.

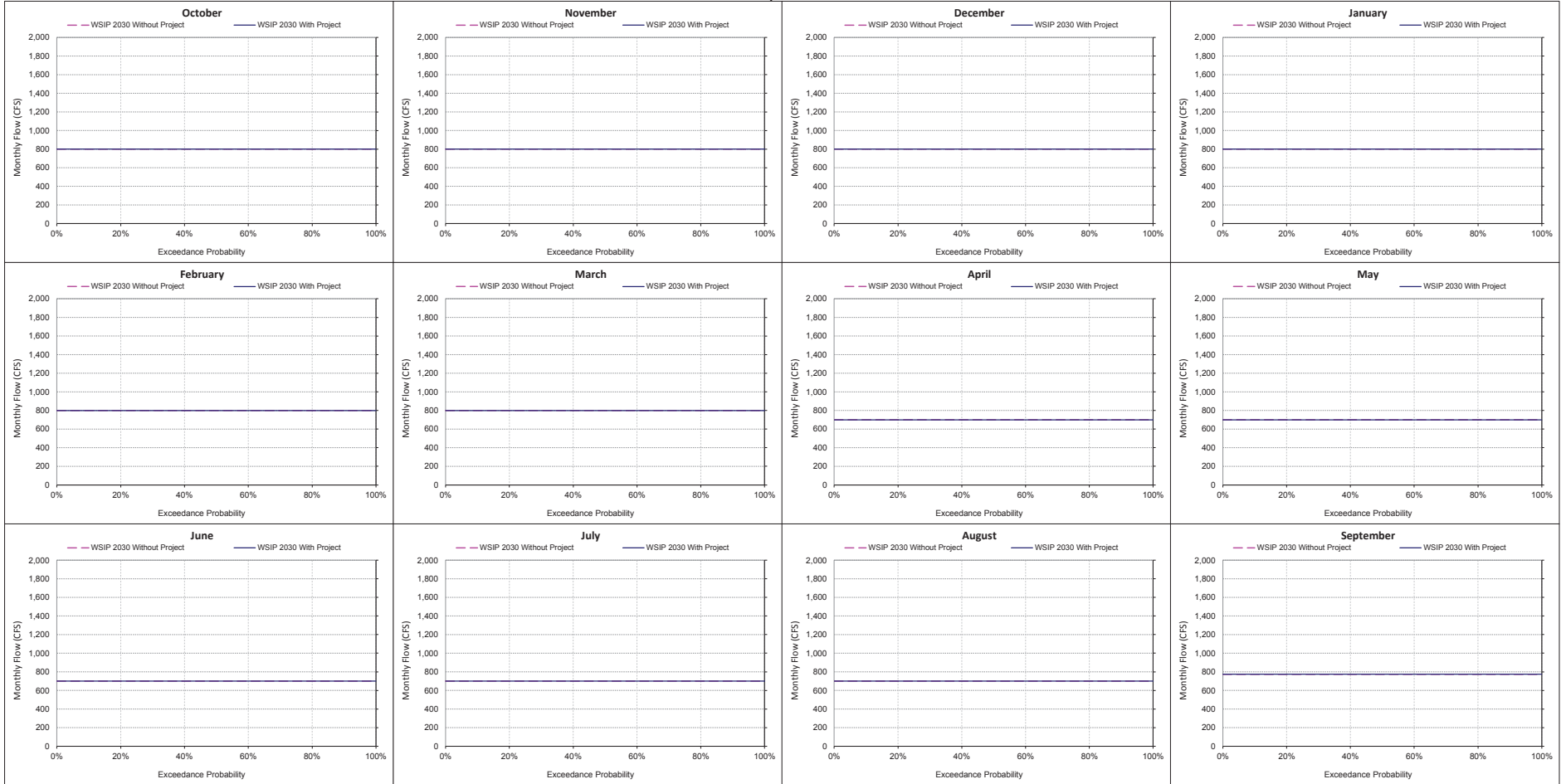
Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference, Relative Difference. Rows represent probability levels from 0.0% to 100.0% for the month of March.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference, Relative Difference. Rows represent probability levels from 0.0% to 100.0% for the month of April.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project, WSIP 2030 With Project, Absolute Difference, Relative Difference. Rows represent probability levels from 0.0% to 100.0% for the month of May.



**Figure SW-21-b**  
**Feather River at Thermalito Low Flow Channel, Monthly Flow**  
**Probability of Exceedance**











**Figure SW-22-b**  
**Feather River below Thermalito, Monthly Flow**  
**Probability of Exceedance**

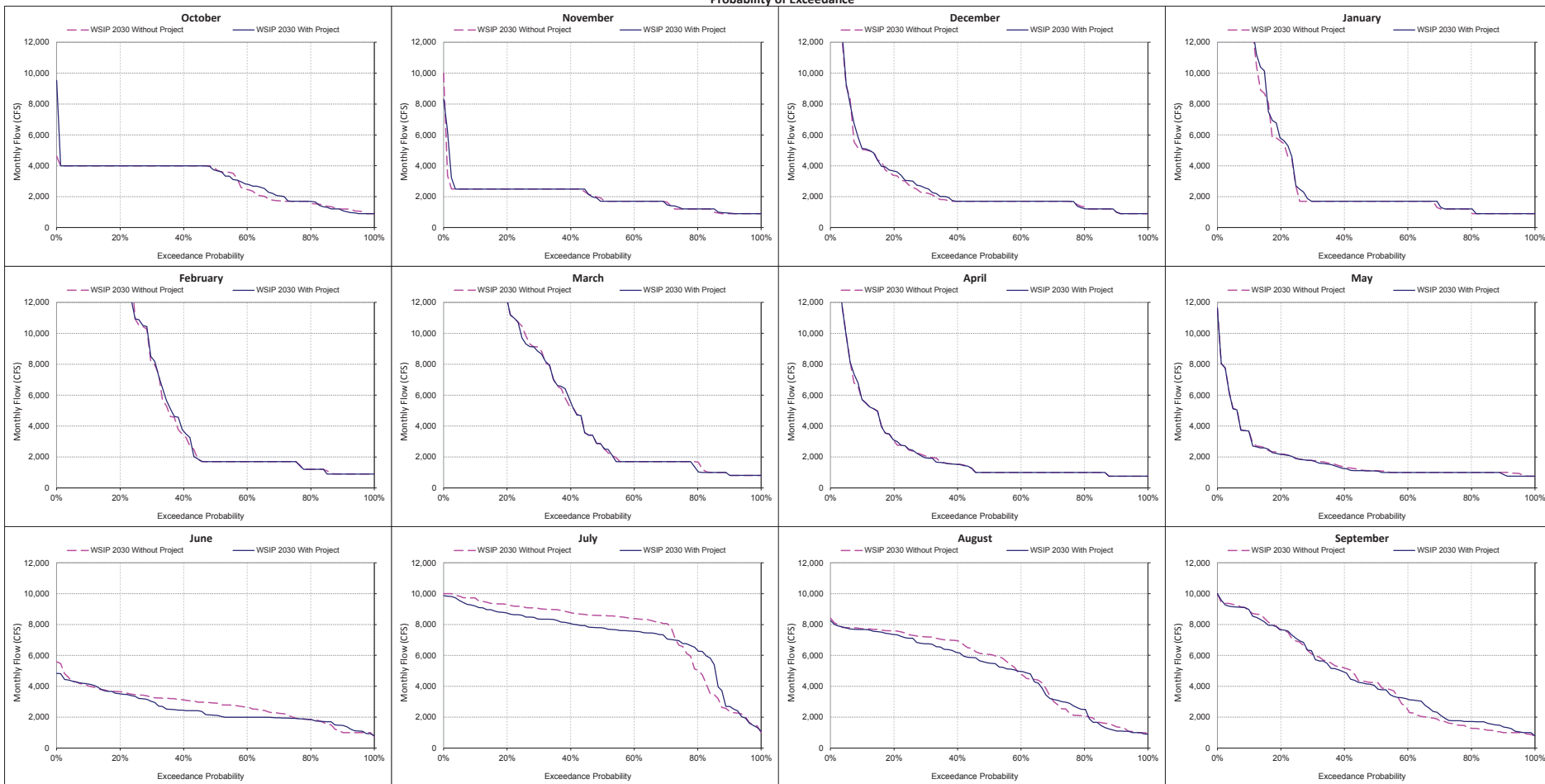








Figure SW-23-b  
Feather River at Mouth, Monthly Flow  
Probability of Exceedance

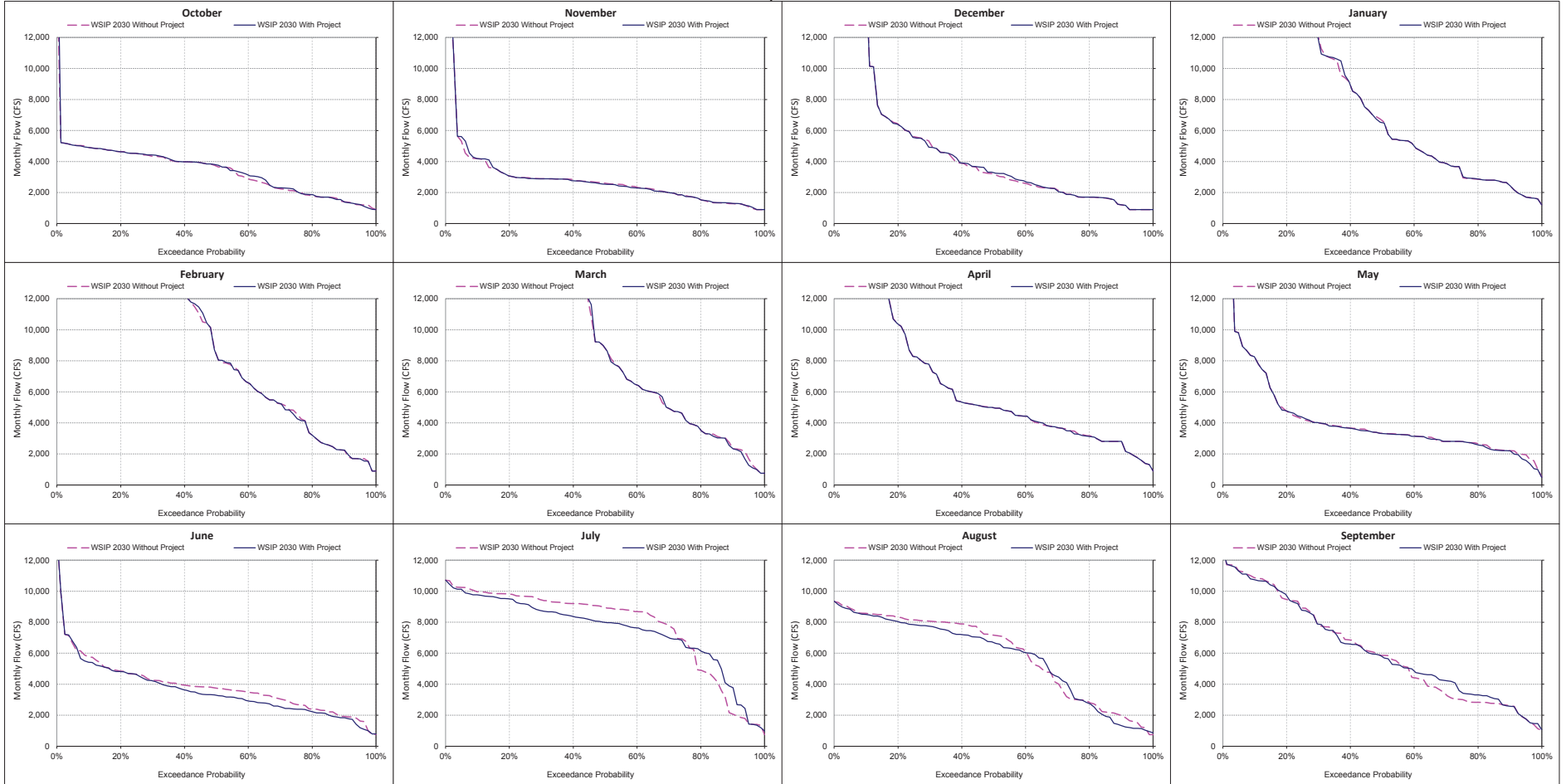


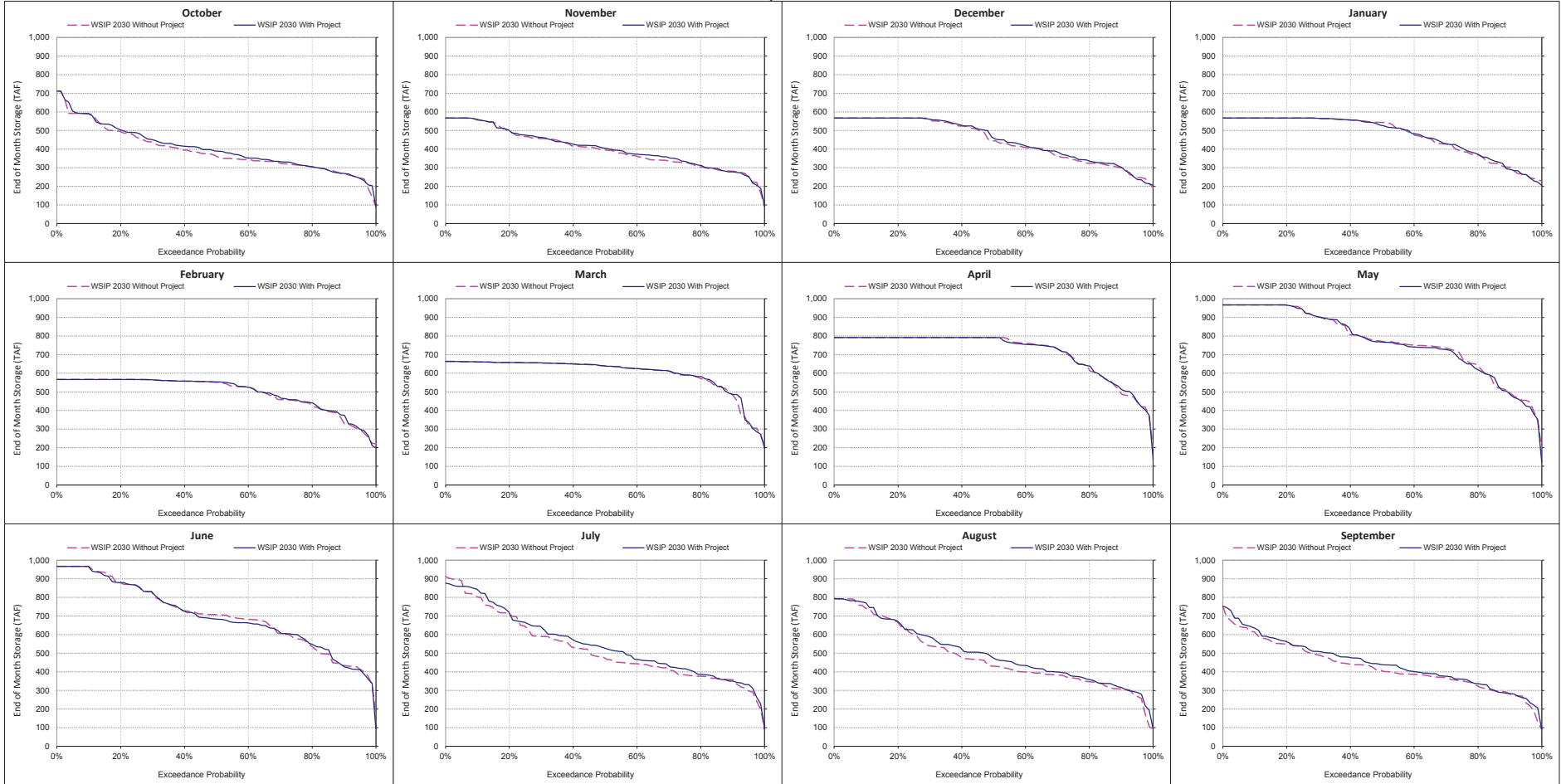








Figure SW-24-b  
Folsom Lake, End of Month Storage  
Probability of Exceedance









**Figure SW-25-b**  
**Folsom Lake, End of Month Elevation**  
**Probability of Exceedance**

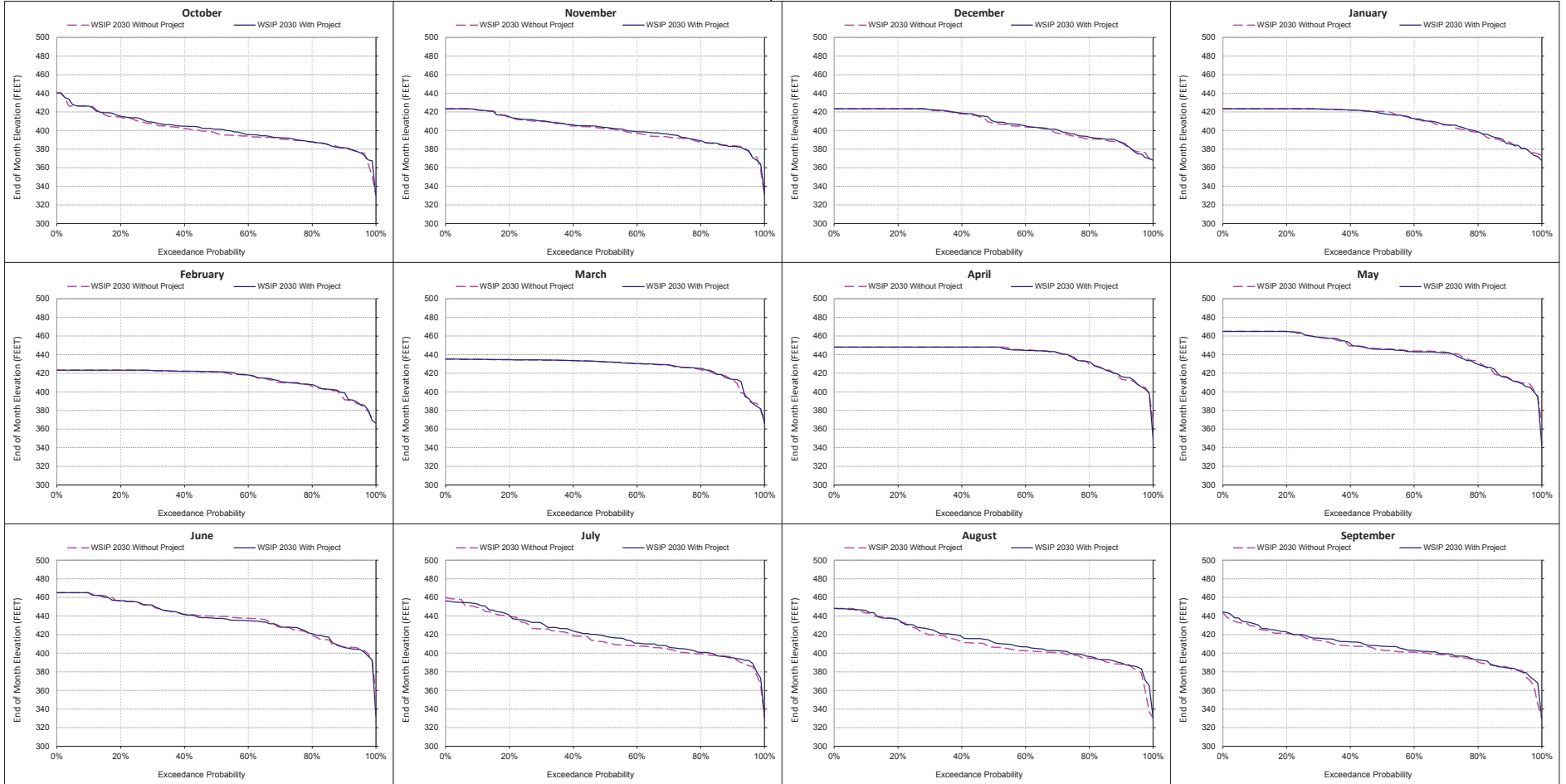










Figure SW-26-b  
Folsom Lake, End of Month Area  
Probability of Exceedance

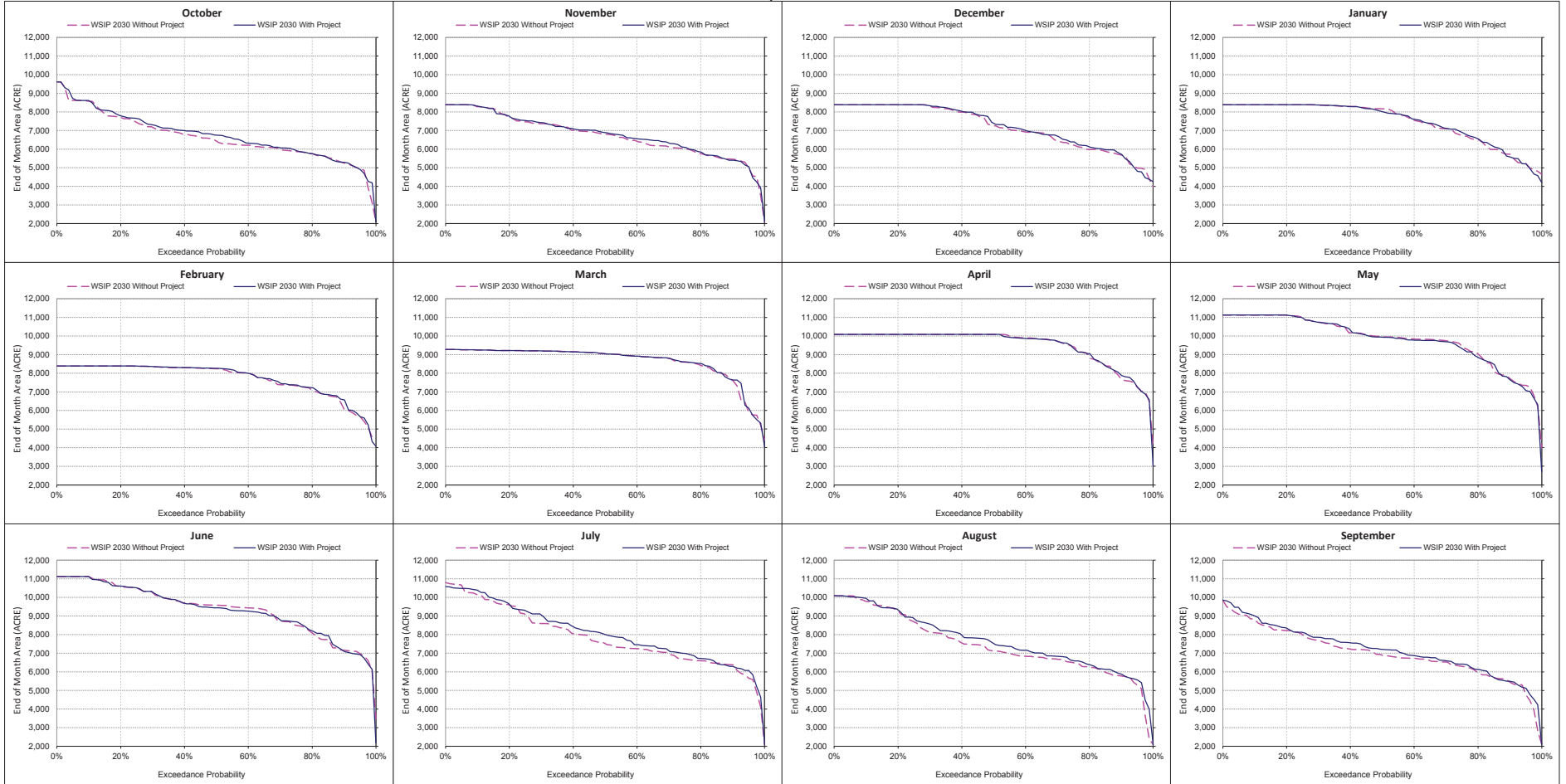


Table SW-26-b  
Folsom Lake, End of Month Area  
Probability of Exceedance

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project End of Month Area (ACRE), WSIP 2030 With Project End of Month Area (ACRE), Absolute Difference (ACRE), Relative Difference (%). Rows range from 0.0% to 100.0%.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project End of Month Area (ACRE), WSIP 2030 With Project End of Month Area (ACRE), Absolute Difference (ACRE), Relative Difference (%). Rows range from 0.0% to 100.0%.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project End of Month Area (ACRE), WSIP 2030 With Project End of Month Area (ACRE), Absolute Difference (ACRE), Relative Difference (%). Rows range from 0.0% to 100.0%.

Table with 6 columns: Percent Exceedance Probability, WSIP 2030 Without Project End of Month Area (ACRE), WSIP 2030 With Project End of Month Area (ACRE), Absolute Difference (ACRE), Relative Difference (%). Rows range from 0.0% to 100.0%.





Figure SW-27-b  
American River below Nimbus Reservoir, Monthly Flow  
Probability of Exceedance

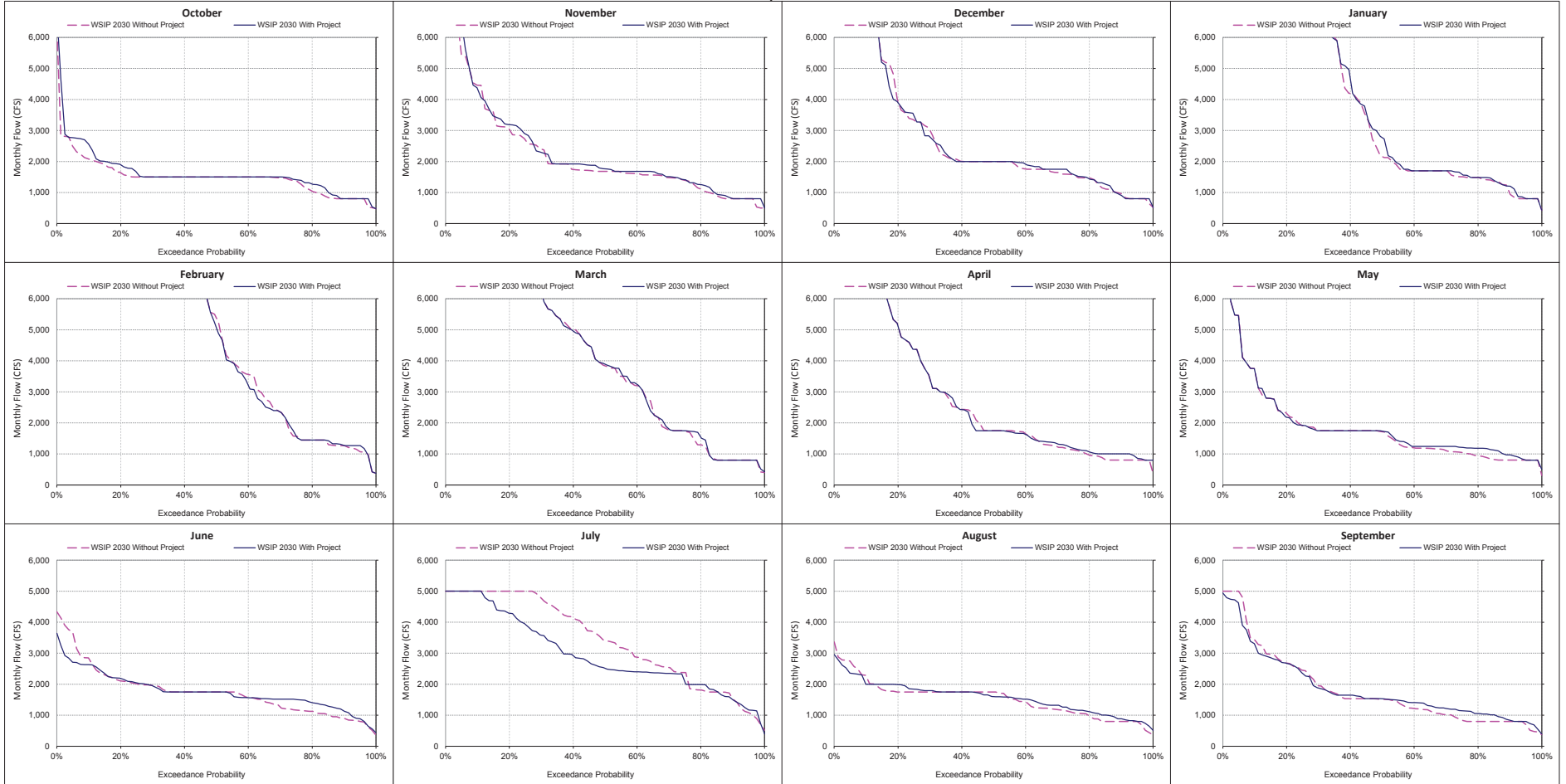






Table SW-27-b  
American River below Nimbus Reservoir, Monthly Flow  
Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	
0.0%	37,373	37,373	0	0.0%	
1.2%	25,591	25,591	0	0.0%	
2.5%	25,407	25,407	0	0.0%	
3.7%	19,180	19,180	0	0.0%	
4.9%	18,460	18,460	0	0.0%	
6.2%	18,150	18,150	0	0.0%	
7.4%	18,129	18,129	0	0.0%	
8.6%	17,758	17,535	177	0.0%	
9.9%	17,245	17,245	0	0.0%	
11.1%	16,718	16,718	0	0.0%	
12.3%	16,581	16,582	1	0.0%	
13.6%	16,008	16,008	0	0.0%	
14.8%	15,500	15,498	-3	0.0%	
16.0%	15,213	14,956	-257	-1.7%	
17.3%	14,325	14,326	1	0.0%	
18.5%	14,291	14,291	0	0.0%	
19.8%	14,168	14,168	0	0.0%	
21.0%	12,945	12,941	-4	0.0%	
22.2%	12,924	12,933	9	0.0%	
23.5%	12,166	12,165	-1	0.0%	
24.7%	11,481	11,550	69	0.6%	
25.9%	11,171	11,171	0	0.0%	
27.2%	10,830	10,830	0	0.0%	
28.4%	10,712	10,712	0	0.0%	
29.6%	8,708	8,708	0	0.0%	
30.9%	8,697	8,697	0	0.0%	
32.1%	8,364	8,364	0	0.0%	
33.3%	7,499	7,499	0	0.0%	
34.6%	7,472	7,474	2	0.0%	
35.8%	7,239	7,240	1	0.0%	
37.0%	7,193	7,193	0	0.0%	
38.3%	7,079	7,080	1	0.0%	
39.5%	6,932	6,933	1	0.0%	
40.7%	6,796	6,932	137	2.0%	
42.0%	6,761	6,734	-27	-0.4%	
43.2%	6,134	6,132	-2	0.0%	
44.4%	6,130	6,130	0	0.0%	
45.7%	6,106	6,106	0	0.0%	
46.9%	6,049	6,047	-2	0.0%	
48.1%	5,566	5,566	0	0.0%	
49.4%	5,503	5,247	-256	-4.6%	
50.6%	5,247	4,896	-351	-6.7%	
51.9%	4,656	4,657	1	0.0%	
53.1%	4,175	4,032	-143	-3.4%	
54.3%	4,032	3,983	-50	-1.2%	
55.6%	3,910	3,910	0	0.0%	
56.8%	3,808	3,645	-162	-4.3%	
58.0%	3,848	3,579	-267	-6.9%	
59.3%	3,578	3,374	-204	-5.7%	
60.5%	3,550	3,093	-457	-12.9%	
61.7%	3,500	3,076	-424	-12.1%	
63.0%	3,060	2,784	-276	-9.0%	
64.2%	2,933	2,694	-239	-8.1%	
65.4%	2,767	2,509	-257	-9.3%	
66.7%	2,684	2,463	-220	-8.2%	
67.9%	2,466	2,400	-66	-2.7%	
69.1%	2,400	2,393	-7	-0.3%	
70.4%	2,333	2,333	0	0.0%	
71.6%	2,163	2,163	0	0.0%	
72.8%	1,750	1,938	188	10.7%	
74.1%	1,574	1,750	176	11.2%	
75.3%	1,564	1,516	-48	-3.1%	
76.5%	1,445	1,445	0	0.0%	
77.8%	1,445	1,445	0	0.0%	
79.0%	1,445	1,445	0	0.0%	
80.2%	1,445	1,445	0	0.0%	
81.5%	1,445	1,445	0	0.0%	
82.7%	1,445	1,445	0	0.0%	
84.0%	1,445	1,445	0	0.0%	
85.2%	1,296	1,419	123	9.5%	
86.4%	1,280	1,330	50	3.9%	
87.7%	1,264	1,324	60	4.7%	
88.9%	1,264	1,311	47	3.7%	
90.1%	1,264	1,264	0	0.0%	
91.4%	1,208	1,264	56	4.7%	
92.6%	1,193	1,264	71	6.0%	
93.8%	1,149	1,264	115	10.0%	
95.1%	1,068	1,264	196	18.4%	
96.3%	1,058	1,172	115	10.9%	
97.5%	991	952	-39	-3.9%	
98.8%	419	419	0	0.0%	
100.0%	375	375	0	0.0%	

March					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	
0.0%	20,972	20,972	0	0.0%	
1.2%	20,170	20,170	0	0.0%	
2.5%	19,987	19,987	0	0.0%	
3.7%	16,797	16,797	0	0.0%	
4.9%	14,188	14,188	0	0.0%	
6.2%	12,985	12,985	0	0.0%	
7.4%	12,778	12,779	1	0.0%	
8.6%	12,180	12,181	1	0.0%	
9.9%	12,169	12,169	0	0.0%	
11.1%	11,200	11,187	-13	-0.1%	
12.3%	10,110	10,105	-5	0.0%	
13.6%	9,344	9,725	380	4.1%	
14.8%	9,198	9,344	146	1.6%	
16.0%	8,964	8,966	2	0.0%	
17.3%	8,949	8,949	0	0.0%	
18.5%	8,386	8,386	0	0.0%	
19.8%	8,260	8,259	-1	0.0%	
21.0%	7,840	7,840	0	0.0%	
22.2%	7,670	7,671	1	0.0%	
23.5%	7,601	7,601	0	0.0%	
24.7%	7,580	7,580	0	0.0%	
25.9%	6,717	6,695	-21	-0.3%	
27.2%	6,695	6,569	-127	-1.9%	
28.4%	6,533	6,531	-2	0.0%	
29.6%	6,396	6,396	0	0.0%	
30.9%	5,914	5,909	-5	-0.1%	
32.1%	5,673	5,675	2	0.0%	
33.3%	5,627	5,626	-1	0.0%	
34.6%	5,454	5,452	-2	0.0%	
35.8%	5,357	5,357	0	0.0%	
37.0%	5,275	5,132	-143	-2.7%	
38.3%	5,132	5,065	-67	-1.3%	
39.5%	5,001	5,001	0	0.0%	
40.7%	5,000	4,901	-99	-2.0%	
42.0%	4,861	4,861	0	0.0%	
43.2%	4,663	4,663	0	0.0%	
44.4%	4,517	4,517	0	0.0%	
45.7%	4,448	4,448	0	0.0%	
46.9%	4,054	4,054	0	0.0%	
48.1%	3,958	3,958	0	0.0%	
49.4%	3,862	3,918	56	1.5%	
50.6%	3,848	3,854	6	0.2%	
51.9%	3,766	3,815	49	1.3%	
53.1%	3,762	3,763	1	0.0%	
54.3%	3,508	3,762	254	7.2%	
55.6%	3,498	3,507	8	0.2%	
56.8%	3,300	3,498	198	6.0%	
58.0%	3,294	3,300	6	0.2%	
59.3%	3,212	3,294	82	2.6%	
60.5%	3,190	3,212	21	0.7%	
61.7%	3,051	3,051	0	0.0%	
63.0%	2,778	2,714	-64	-2.3%	
64.2%	2,716	2,385	-331	-12.2%	
65.4%	2,247	2,247	0	0.0%	
66.7%	2,173	2,173	0	0.0%	
67.9%	1,881	2,100	220	11.7%	
69.1%	1,817	1,881	64	3.5%	
70.4%	1,750	1,772	22	1.3%	
71.6%	1,750	1,750	0	0.0%	
72.8%	1,750	1,750	0	0.0%	
74.1%	1,574	1,750	176	11.2%	
75.3%	1,516	1,721	205	13.5%	
76.5%	1,695	1,729	34	2.0%	
77.8%	1,488	1,721	233	15.7%	
79.0%	1,296	1,696	400	30.9%	
80.2%	1,288	1,508	220	17.1%	
81.5%	1,243	1,445	202	16.3%	
82.7%	951	951	0	0.0%	
84.0%	849	810	-40	-4.7%	
85.2%	800	800	0	0.0%	
86.4%	800	800	0	0.0%	
87.7%	800	800	0	0.0%	
88.9%	800	800	0	0.0%	
90.1%	800	800	0	0.0%	
91.4%	800	800	0	0.0%	
92.6%	800	800	0	0.0%	
93.8%	800	800	0	0.0%	
95.1%	800	800	0	0.0%	
96.3%	800	800	0	0.0%	
97.5%	800	800	0	0.0%	
98.8%	419	419	0	0.0%	
100.0%	401	417	16	3.9%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	Monthly Flow (CFS)	
0.0%	19,267	19,267	0	0.0%	
1.2%	16,960	16,961	1	0.0%	
2.5%	11,843	11,840	-3	0.0%	
3.7%	10,315	10,323	8	0.1%	
4.9%	9,315	9,315	0	0.0%	
6.2%	8,270	8,270	0	0.0%	
7.4%	8,048	8,049	1	0.0%	
8.6%	7,221	7,221	0	0.0%	
9.9%	6,839	6,839	0	0.0%	
11.1%	6,753	6,753	0	0.0%	
12.3%	6,471	6,471	0	0.0%	
13.6%	6,422	6,422	0	0.0%	
14.8%	6,380	6,380	0	0.0%	
16.0%	6,160	6,160	0	0.0%	
17.3%	5,755	5,750	-4	-0.1%	
18.5%	5,331	5,331	0	0.0%	
19.8%	5,215	5,216	1	0.0%	
21.0%	4,771	4,771	0	0.0%	
22.2%	4,677	4,679	2	0.0%	
23.5%	4,562	4,562	0	0.0%	
24.7%	4,373	4,373	0	0.0%	
25.9%	4,373	4,362	-10	-0.2%	
27.2%	3,993	3,993	0	0.0%	
28.4%	3,750	3,753	3	0.1%	
29.6%	3,548	3,548	0	0.0%	
30.9%	3,108	3,108	0	0.0%	
32.1%	3,106	3,105	-1	0.0%	
33.3%	2,994	2,994	0	0.0%	
34.6%	2,989	2,989	0	0.0%	
35.8%	2,802	2,911	110	3.9%	
37.0%	2,527	2,799	273	10.8%	
38.3%	2,506	2,527	20	0.8%	
39.5%	2,436	2,432	-4	-0.2%	
40.7%	2,432	2,421	-11	-0.4%	
42.0%	2,421	2,357	-65	-2.7%	
43.2%	2,355	2,355	0	0.0%	
44.4%	2,095	1,750	-345	-16.5%	
45.7%	1,968	1,750	-218	-11.1%	
46.9%	1,750	1,750	0	0.0%	
48.1%	1,750	1,750	0	0.0%	
49.4%	1,750	1,750	0	0.0%	
50.6%	1,750	1,750	0	0.0%	
51.9%	1,750	1,750	0	0.0%	
53.1%	1,750	1,750	0	0.0%	
54.3%	1,750	1,721	-29	-1.7%	
55.6%	1,750	1,707	-43	-2.5%	
56.8%	1,724	1,669	-55	-3.2%	
58.0%	1,721	1,663	-58	-3.4%	
59.3%	1,707	1,657	-50	-2.9%	
60.5%	1,608	1,607	-1	0.0%	
61.7%	1,600	1,508	-92	-5.8%	
63.0%	1,488	1,445	-43	-2.9%	
64.2%	1,401	1,413	12	0.8%	
65.4%	1,311	1,401	90	6.9%	
66.7%	1,296	1,384	88	6.8%	
67.9%	1,279	1,375	95	7.5%	
69.1%	1,269	1,358	89	7.0%	
70.4%	1,210	1,311	102	8.4%	
71.6%	1,206	1,301	95	7.9%	
72.8%	1,176	1,270	94	8.0%</	

**Table SW-27-b**  
American River below Nimbus Reservoir, Monthly Flow  
Probability of Exceedance

June						July						August						September					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Probability	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Probability	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Probability	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	4,335	3,640	-695	-16.0%	0.0%	0.0%	5,000	5,000	0	0.0%	0.0%	0.0%	3,363	2,956	-407	-12.1%	0.0%	0.0%	5,000	4,944	-56	-1.1%	
1.2%	4,140	3,247	-893	-21.6%	1.2%	1.2%	5,000	5,000	0	0.0%	1.2%	1.2%	2,882	2,783	-99	-3.4%	1.2%	1.2%	5,000	4,793	-207	-4.1%	
2.5%	3,902	2,921	-981	-25.2%	2.5%	2.5%	5,000	5,000	0	0.0%	2.5%	2.5%	2,782	2,614	-168	-6.0%	2.5%	2.5%	5,000	4,736	-264	-5.3%	
3.7%	3,758	2,850	-908	-24.2%	3.7%	3.7%	5,000	5,000	0	0.0%	3.7%	3.7%	2,772	2,533	-239	-8.6%	3.7%	3.7%	5,000	4,717	-283	-5.7%	
4.9%	3,687	2,713	-975	-26.4%	4.9%	4.9%	5,000	5,000	0	0.0%	4.9%	4.9%	2,749	2,361	-388	-14.1%	4.9%	4.9%	5,000	4,629	-371	-7.4%	
6.2%	3,154	2,703	-452	-14.3%	6.2%	6.2%	5,000	5,000	0	0.0%	6.2%	6.2%	2,576	2,339	-237	-9.2%	6.2%	6.2%	4,798	3,901	-896	-18.7%	
7.4%	2,909	2,641	-268	-9.2%	7.4%	7.4%	5,000	5,000	0	0.0%	7.4%	7.4%	2,483	2,321	-162	-6.5%	7.4%	7.4%	4,035	3,757	-278	-6.9%	
8.6%	2,856	2,630	-226	-7.9%	8.6%	8.6%	5,000	5,000	0	0.0%	8.6%	8.6%	2,301	2,302	1	0.1%	8.6%	8.6%	3,489	3,385	-105	-3.0%	
9.9%	2,850	2,630	-220	-7.7%	9.9%	9.9%	5,000	5,000	0	0.0%	9.9%	9.9%	2,288	2,192	-96	-4.2%	9.9%	9.9%	3,445	3,304	-141	-4.1%	
11.1%	2,630	2,625	-5	-0.2%	11.1%	11.1%	5,000	5,000	0	0.0%	11.1%	11.1%	2,014	2,004	-10	-0.7%	11.1%	11.1%	3,281	2,999	-282	-8.6%	
12.3%	2,451	2,558	107	4.4%	12.3%	12.3%	5,000	4,788	-212	-4.2%	12.3%	12.3%	2,009	2,000	-9	-0.4%	12.3%	12.3%	3,245	2,952	-293	-9.0%	
13.6%	2,357	2,451	94	4.0%	13.6%	13.6%	5,000	4,695	-305	-6.1%	13.6%	13.6%	1,927	2,000	73	3.8%	13.6%	2,983	2,905	-78	-2.6%		
14.8%	2,312	2,357	45	1.9%	14.8%	14.8%	5,000	4,690	-310	-6.2%	14.8%	14.8%	1,829	1,999	170	9.3%	14.8%	2,966	2,860	-106	-3.6%		
16.0%	2,250	2,250	0	0.0%	16.0%	16.0%	5,000	4,395	-605	-12.1%	16.0%	16.0%	1,789	1,999	210	11.7%	16.0%	2,954	2,811	-142	-4.8%		
17.3%	2,216	2,209	-8	-0.3%	17.3%	17.3%	5,000	4,367	-633	-12.7%	17.3%	17.3%	1,776	1,998	222	12.5%	17.3%	2,821	2,779	-42	-1.5%		
18.5%	2,151	2,200	49	2.3%	18.5%	18.5%	5,000	4,365	-635	-12.7%	18.5%	18.5%	1,775	1,997	222	12.5%	18.5%	2,727	2,702	-25	-0.9%		
19.8%	2,109	2,288	179	8.5%	19.8%	19.8%	5,000	4,288	-712	-14.2%	19.8%	19.8%	1,750	1,992	242	13.8%	19.8%	2,685	2,685	0	0.0%		
21.0%	2,093	2,149	56	2.7%	21.0%	21.0%	5,000	4,278	-722	-14.4%	21.0%	21.0%	1,750	1,982	232	13.3%	21.0%	2,665	2,647	-18	-0.7%		
22.2%	2,083	2,093	10	0.5%	22.2%	22.2%	5,000	4,127	-873	-17.5%	22.2%	22.2%	1,750	1,944	194	11.1%	22.2%	2,572	2,595	23	0.9%		
23.5%	2,049	2,083	34	1.6%	23.5%	23.5%	5,000	4,020	-980	-19.6%	23.5%	23.5%	1,750	1,856	106	6.1%	23.5%	2,552	2,570	18	0.7%		
24.7%	2,021	2,048	26	1.3%	24.7%	24.7%	5,000	3,961	-1,039	-20.8%	24.7%	24.7%	1,750	1,840	90	5.1%	24.7%	2,458	2,377	-81	-3.3%		
25.9%	1,985	2,020	35	1.8%	25.9%	25.9%	5,000	3,847	-1,153	-23.1%	25.9%	25.9%	1,750	1,834	84	4.8%	25.9%	2,432	2,264	-168	-6.9%		
27.2%	1,979	2,011	32	1.6%	27.2%	27.2%	5,000	3,725	-1,275	-25.5%	27.2%	27.2%	1,750	1,813	63	3.6%	27.2%	2,278	2,250	-28	-1.2%		
28.4%	1,978	1,992	14	0.7%	28.4%	28.4%	4,929	3,696	-1,233	-25.0%	28.4%	28.4%	1,750	1,793	43	2.5%	28.4%	2,169	1,959	-200	-9.3%		
29.6%	1,964	1,963	-1	-0.1%	29.6%	29.6%	4,814	3,591	-1,223	-25.4%	29.6%	29.6%	1,750	1,792	42	2.4%	29.6%	1,953	1,867	-86	-4.4%		
30.9%	1,963	1,908	-55	-2.8%	30.9%	30.9%	4,683	3,562	-1,121	-23.9%	30.9%	30.9%	1,750	1,791	41	2.3%	30.9%	1,940	1,857	-83	-4.3%		
32.1%	1,922	1,843	-79	-4.1%	32.1%	32.1%	4,588	3,409	-1,179	-25.7%	32.1%	32.1%	1,750	1,755	5	0.3%	32.1%	1,819	1,815	-4	-0.2%		
33.3%	1,819	1,760	-59	-3.2%	33.3%	33.3%	4,537	3,366	-1,171	-25.8%	33.3%	33.3%	1,750	1,750	0	0.0%	33.3%	1,785	1,750	-35	-2.0%		
34.6%	1,777	1,750	-27	-1.5%	34.6%	34.6%	4,444	3,316	-1,128	-25.4%	34.6%	34.6%	1,750	1,750	0	0.0%	34.6%	1,733	1,688	-45	-2.6%		
35.8%	1,750	1,750	0	0.0%	35.8%	35.8%	4,348	3,148	-1,200	-27.6%	35.8%	35.8%	1,750	1,750	0	0.0%	35.8%	1,687	1,660	-27	-1.6%		
37.0%	1,750	1,750	0	0.0%	37.0%	37.0%	4,230	2,975	-1,255	-29.7%	37.0%	37.0%	1,750	1,750	0	0.0%	37.0%	1,650	1,650	0	0.0%		
38.3%	1,750	1,750	0	0.0%	38.3%	38.3%	4,189	2,973	-1,217	-29.0%	38.3%	38.3%	1,750	1,750	0	0.0%	38.3%	1,533	1,650	117	7.6%		
39.5%	1,750	1,750	0	0.0%	39.5%	39.5%	4,175	2,967	-1,208	-28.9%	39.5%	39.5%	1,750	1,750	0	0.0%	39.5%	1,533	1,650	117	7.6%		
40.7%	1,750	1,750	0	0.0%	40.7%	40.7%	4,095	2,855	-1,240	-30.3%	40.7%	40.7%	1,750	1,750	0	0.0%	40.7%	1,533	1,650	117	7.6%		
42.0%	1,750	1,750	0	0.0%	42.0%	42.0%	4,052	2,839	-1,213	-29.9%	42.0%	42.0%	1,750	1,750	0	0.0%	42.0%	1,533	1,623	90	5.9%		
43.2%	1,750	1,750	0	0.0%	43.2%	43.2%	3,914	2,814	-1,099	-27.9%	43.2%	43.2%	1,750	1,750	0	0.0%	43.2%	1,533	1,603	70	4.6%		
44.4%	1,750	1,750	0	0.0%	44.4%	44.4%	3,725	2,756	-969	-26.0%	44.4%	44.4%	1,750	1,737	-13	-0.8%	44.4%	1,533	1,533	0	0.0%		
45.7%	1,750	1,750	0	0.0%	45.7%	45.7%	3,712	2,660	-1,052	-28.4%	45.7%	45.7%	1,750	1,707	-43	-2.5%	45.7%	1,533	1,533	0	0.0%		
46.9%	1,750	1,750	0	0.0%	46.9%	46.9%	3,654	2,612	-1,042	-28.5%	46.9%	46.9%	1,750	1,659	-91	-5.2%	46.9%	1,533	1,533	0	0.0%		
48.1%	1,750	1,750	0	0.0%	48.1%	48.1%	3,558	2,564	-994	-27.9%	48.1%	48.1%	1,750	1,654	-96	-5.5%	48.1%	1,528	1,533	6	0.4%		
49.4%	1,750	1,750	0	0.0%	49.4%	49.4%	3,432	2,533	-898	-26.2%	49.4%	49.4%	1,750	1,605	-145	-8.3%	49.4%	1,514	1,533	19	1.3%		
50.6%	1,750	1,750	0	0.0%	50.6%	50.6%	3,397	2,488	-909	-26.7%	50.6%	50.6%	1,750	1,599	-151	-8.6%	50.6%	1,528	1,612	84	5.5%		
51.9%	1,750	1,750	0	0.0%	51.9%	51.9%	3,370	2,466	-903	-26.8%	51.9%	51.9%	1,707	1,598	-109	-6.4%	51.9%	1,510	1,514	4	0.3%		
53.1%	1,750	2,464	714	40.8%	53.1%	53.1%	3,332	2,464	-867	-26.0%	53.1%	53.1%	1,706	1,586	-119	-7.0%	53.1%	1,480	1,502	22	1.5%		
54.3%	1,750	2,438	688	39.3%	54.3%	54.3%	3,188	2,438	-750	-23.5%	54.3%	54.3%	1,575	1,585	9	0.6%	54.3%	1,470	1,496	26	1.8%		
55.6%	1,750	1,594	-156	-8.9%	55.6%	55.6%	3,171	2,432	-739	-23.3%	55.6%	55.6%	1,518	1,575	57	3.7%	55.6%	1,371	1,478	107	7.8%		
56.8%	1,707	1,575	-132	-7.7%	56.8%	56.8%	3,123	2,417	-706	-22.6%	56.8%	56.8%	1,512	1,545	33	2.2%	56.8%	1,303	1,462	159	12.2%		
58.0%	1,651	1,589	-61	-3.6%	58.0%	58.0%	3,097	2,408	-688	-22.5%	58.0%	58.0%	1,446	1,535	88	6.1%	58.0%	1,235	1,415	180	14.5%		
59.3%	1,583	1,567	-15	-1.0%	59.3%	59.3%	2,883	2,400	-483	-16.8%	59.3%	59.3%	1,440	1,516	76	5.3%	59.3%	1,229	1,410	181	14.7%		
60.5%	1,575	1,565	-10	-0.7%	60.5%	60.5%	2,866	2,397	-469	-16.4%	60.5%	60.5%	1,401	1,515	114	8.1%	60.5%	1,210	1,404	194	16.1%		
61.7%	1,550	1,563	13	0.8%	61.7%	61.7%	2,795	2,395	-400	-14.3%	61.7%	61.7%	1,285	1,496	212	16.5%	61.7%	1,206	1,401	195	16.2%		
63.0%	1,516	1,552	36	2.4%	63.0%	63.0%	2,787	2,394	-393	-14.1%	63.0%	63.0%	1,240	1,447	207	16.7%	63.0%	1,184	1,389	205	17.3%		
64.2%	1,512	1,535	23	1.6%	64.2%	64.2%	2,740	2,373	-367	-13.4%	64.2%	64.2%	1,235	1,401	166	13.5%	64.2%	1,176	1,317	141	12.0%		
65.4%	1,422	1,532	110	7.8%	65.4%	65.4%	2,631	2,367	-264	-10.0%	65.4%	65.4%	1,229	1,352	123	10.0%	65.4%	1,115	1,299	184	16.5%		
66.7%	1,401	1,527	126	9.0%	66.7%	66.7%	2,610	2,363	-247	-9.5%	66.7%	66.7%	1,228	1,331	103	8.4%	66.7%	1,067	1,257	190	17.8%		
67.9%	1,358	1,523	164	12.1%	67.9%	67.9%	2,566	2,362	-205	-8.0%	67.9%	67.9%	1,210	1,326	116	9.6%	67.9%	1,057	1,235	178	16.8%		
69.1%	1,353	1,521	168	12.4%	69.1%	69.1%	2,556	2,351	-205	-8.0%	69.1%	69.1%	1,192	1,320	128	10.7%	69.1%	1,022	1,234	211	20.7%		
70.4%	1,229	1,521	292	23.8%	70.4%	70.4%	2,533	2,350	-183	-7.2%	70.4%	70.4%	1,176	1,320	144	12.2%	70.4%	1,018	1,210	192	18.9%		
71.6%	1,210	1,520	310	25.6%	71.6%	71.6%	2,408	2,345	-64	-2.6%	71.6%	71.6%	1,163	1,284	121								

Figure SW-28-b  
 American River at Watt Avenue, Monthly Flow  
 Probability of Exceedance

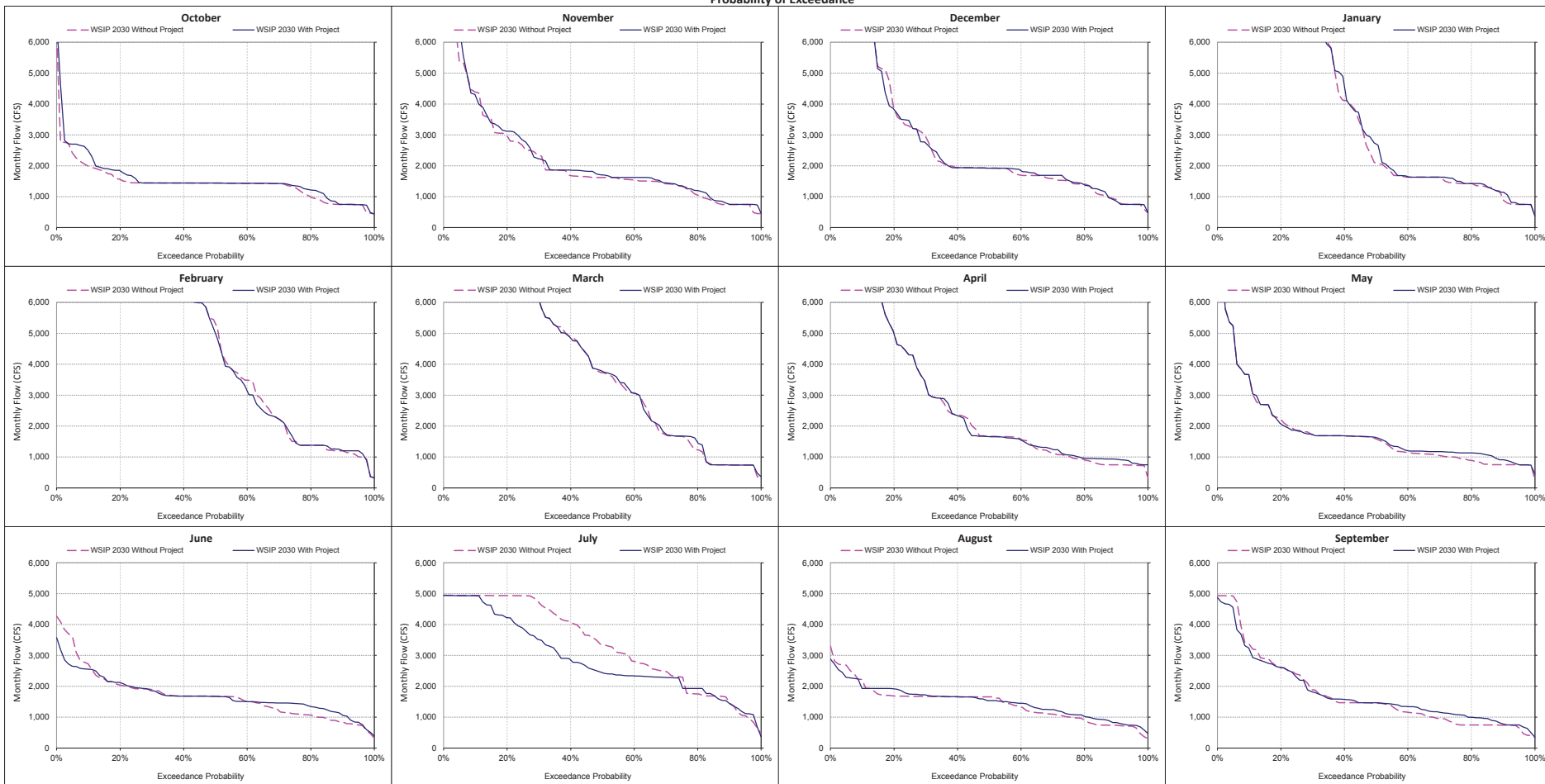


Table SW-28-b  
American River at Watt Avenue, Monthly Flow  
Probability of Exceedance

October					November					December					January				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	6,243	6,698	455	7.3%	0.0%	20,423	21,762	1,339	6.6%	0.0%	21,198	21,642	444	2.1%	0.0%	35,584	35,582	-2	0.0%
1.2%	2,762	4,566	1,804	65.3%	1.2%	15,410	14,633	-777	-5.0%	1.2%	20,502	20,638	136	0.7%	1.2%	30,053	29,986	-67	-0.2%
2.5%	2,761	2,922	161	5.8%	2.5%	8,123	8,858	734	9.0%	2.5%	20,370	20,491	121	0.6%	2.5%	25,409	25,405	-4	0.0%
3.7%	2,732	2,710	-22	-0.8%	3.7%	6,522	7,504	982	15.1%	3.7%	19,478	19,697	219	1.1%	3.7%	22,796	22,799	3	0.0%
4.9%	2,417	2,699	281	11.6%	4.9%	5,386	6,484	1,099	20.4%	4.9%	19,214	19,221	7	0.0%	4.9%	22,602	22,600	-2	0.0%
6.2%	2,252	2,698	446	19.8%	6.2%	5,352	5,568	217	4.1%	6.2%	17,583	17,576	-7	0.0%	6.2%	21,044	21,042	-2	0.0%
7.4%	2,144	2,662	518	24.2%	7.4%	4,925	4,926	1	0.0%	7.4%	17,529	17,518	-11	-0.1%	7.4%	19,810	20,161	351	1.8%
8.6%	2,064	2,630	565	27.4%	8.6%	4,467	4,351	-117	-2.6%	8.6%	13,491	13,479	-12	-0.1%	8.6%	17,228	17,226	-2	0.0%
9.9%	1,983	2,492	509	25.7%	9.9%	4,392	4,213	-179	-4.1%	9.9%	13,171	12,717	-454	-3.4%	9.9%	15,049	15,049	0	0.0%
11.1%	1,942	2,296	355	18.2%	11.1%	4,355	3,997	-358	-8.2%	11.1%	9,282	9,297	15	0.2%	11.1%	15,051	14,876	-175	-1.2%
12.3%	1,911	1,993	82	4.3%	12.3%	3,640	3,892	252	6.9%	12.3%	8,354	7,349	-1,005	-12.0%	12.3%	14,373	14,371	-2	0.0%
13.6%	1,865	1,957	92	4.9%	13.6%	3,581	3,633	52	1.5%	13.6%	6,275	6,272	-3	0.0%	13.6%	13,465	13,465	0	0.0%
14.8%	1,836	1,918	82	4.5%	14.8%	3,581	3,394	-186	-5.2%	14.8%	5,228	5,154	-74	-1.4%	14.8%	11,044	11,045	1	0.0%
16.0%	1,749	1,904	155	8.9%	16.0%	3,080	3,356	276	9.0%	16.0%	5,145	5,052	-93	-1.8%	16.0%	10,553	10,551	-1	0.0%
17.3%	1,726	1,867	141	8.1%	17.3%	3,055	3,281	227	7.4%	17.3%	5,105	4,363	-742	-14.5%	17.3%	10,507	10,507	0	0.0%
18.5%	1,588	1,856	267	16.8%	18.5%	3,055	3,151	96	3.2%	18.5%	4,748	3,940	-809	-17.0%	18.5%	9,962	9,962	0	0.0%
19.8%	1,568	1,852	284	18.1%	19.8%	3,009	3,121	111	3.7%	19.8%	3,947	3,855	-93	-2.3%	19.8%	9,587	9,595	9	0.1%
21.0%	1,504	1,770	266	17.7%	21.0%	2,803	3,118	316	11.3%	21.0%	3,592	3,695	104	2.9%	21.0%	9,403	9,401	-2	0.0%
22.2%	1,468	1,697	229	15.6%	22.2%	2,792	3,095	303	10.9%	22.2%	3,476	3,508	32	0.9%	22.2%	8,827	8,857	30	0.3%
23.5%	1,448	1,687	239	16.4%	23.5%	2,786	2,980	294	10.6%	23.5%	3,332	3,492	160	4.8%	23.5%	8,657	8,649	-8	0.0%
24.7%	1,448	1,597	149	10.2%	24.7%	2,676	2,846	170	6.3%	24.7%	3,292	3,474	182	5.5%	24.7%	8,340	8,323	-17	-0.2%
25.9%	1,448	1,463	15	1.0%	25.9%	2,500	2,763	263	10.5%	25.9%	3,193	3,205	12	0.4%	25.9%	8,192	8,194	2	0.0%
27.2%	1,448	1,444	-4	-0.3%	27.2%	2,498	2,578	80	3.2%	27.2%	3,186	3,186	0	0.0%	27.2%	7,360	7,364	4	0.1%
28.4%	1,447	1,444	-3	-0.3%	28.4%	2,462	2,280	-182	-7.4%	28.4%	3,106	2,774	-332	-10.7%	28.4%	7,087	7,091	4	0.1%
29.6%	1,444	1,442	-2	-0.1%	29.6%	2,352	2,242	-110	-4.7%	29.6%	2,912	2,766	-146	-5.0%	29.6%	6,602	6,602	0	0.0%
30.9%	1,444	1,442	-2	-0.1%	30.9%	2,310	2,203	-107	-4.6%	30.9%	2,763	2,640	-124	-4.5%	30.9%	6,510	6,498	-12	-0.2%
32.1%	1,444	1,442	-2	-0.1%	32.1%	1,866	2,153	288	15.4%	32.1%	2,453	2,521	68	2.8%	32.1%	6,498	6,468	-30	-0.5%
33.3%	1,443	1,442	-1	-0.1%	33.3%	1,862	1,880	18	1.0%	33.3%	2,168	2,454	286	13.2%	33.3%	6,166	6,166	0	0.0%
34.6%	1,443	1,442	-1	-0.1%	34.6%	1,862	1,862	0	0.0%	34.6%	2,136	2,241	106	5.0%	34.6%	6,011	5,930	-81	-1.3%
35.8%	1,442	1,442	-1	0.0%	35.8%	1,862	1,862	0	0.0%	35.8%	2,060	2,089	29	1.4%	35.8%	5,814	5,813	-1	0.0%
37.0%	1,442	1,441	-1	-0.1%	37.0%	1,851	1,862	12	0.6%	37.0%	2,007	2,001	-6	-0.3%	37.0%	5,011	5,085	74	1.5%
38.3%	1,442	1,441	-1	-0.1%	38.3%	1,850	1,862	12	0.6%	38.3%	1,994	1,940	-54	-2.7%	38.3%	4,302	5,035	732	17.0%
39.5%	1,442	1,441	-1	-0.1%	39.5%	1,689	1,862	173	10.3%	39.5%	1,940	1,936	-4	-0.2%	39.5%	4,121	4,892	771	18.7%
40.7%	1,442	1,440	-2	-0.1%	40.7%	1,671	1,854	183	11.0%	40.7%	1,939	1,936	-3	-0.2%	40.7%	4,111	4,119	8	0.2%
42.0%	1,441	1,440	-1	0.0%	42.0%	1,663	1,851	188	11.3%	42.0%	1,936	1,936	0	0.0%	42.0%	3,980	3,928	-52	-1.0%
43.2%	1,440	1,440	0	0.0%	43.2%	1,656	1,850	194	11.7%	43.2%	1,936	1,936	0	0.0%	43.2%	3,785	3,785	0	0.0%
44.4%	1,440	1,440	0	0.0%	44.4%	1,653	1,827	175	10.6%	44.4%	1,936	1,935	-1	-0.0%	44.4%	3,498	3,376	-122	-3.5%
45.7%	1,439	1,439	0	0.0%	45.7%	1,641	1,819	177	10.8%	45.7%	1,936	1,933	-3	-0.1%	45.7%	3,193	3,193	0	0.0%
46.9%	1,439	1,439	0	0.0%	46.9%	1,621	1,818	197	12.2%	46.9%	1,932	1,933	1	0.0%	46.9%	2,661	2,991	331	12.4%
48.1%	1,439	1,439	0	0.0%	48.1%	1,621	1,732	112	6.9%	48.1%	1,930	1,927	-3	-0.2%	48.1%	2,405	2,933	529	22.0%
49.4%	1,439	1,439	0	0.0%	49.4%	1,621	1,708	87	5.4%	49.4%	1,928	1,926	-2	-0.1%	49.4%	2,111	2,745	634	30.0%
50.6%	1,439	1,439	0	0.0%	50.6%	1,621	1,697	76	4.7%	50.6%	1,927	1,925	-2	-0.1%	50.6%	2,063	2,063	0	0.0%
51.9%	1,439	1,439	0	0.0%	51.9%	1,621	1,672	51	3.2%	51.9%	1,926	1,925	-1	-0.1%	51.9%	2,053	2,111	58	2.8%
53.1%	1,439	1,438	-1	-0.1%	53.1%	1,621	1,621	0	0.0%	53.1%	1,920	1,924	4	0.2%	53.1%	1,950	2,053	103	5.3%
54.3%	1,439	1,438	-1	-0.1%	54.3%	1,619	1,621	2	0.1%	54.3%	1,920	1,922	2	0.1%	54.3%	1,848	1,921	73	4.0%
55.6%	1,437	1,438	1	0.1%	55.6%	1,563	1,621	57	3.7%	55.6%	1,913	1,919	6	0.3%	55.6%	1,685	1,847	162	9.6%
56.8%	1,437	1,438	1	0.1%	56.8%	1,561	1,621	59	3.8%	56.8%	1,933	1,914	-22	-1.1%	56.8%	1,685	1,685	0	0.0%
58.0%	1,431	1,438	7	0.5%	58.0%	1,556	1,621	64	4.1%	58.0%	1,731	1,900	169	9.8%	58.0%	1,673	1,688	12	0.7%
59.3%	1,430	1,438	8	0.6%	59.3%	1,548	1,621	73	4.7%	59.3%	1,709	1,890	181	10.6%	59.3%	1,635	1,673	38	2.3%
60.5%	1,430	1,438	8	0.6%	60.5%	1,544	1,621	76	5.0%	60.5%	1,688	1,813	125	7.4%	60.5%	1,635	1,635	0	0.0%
61.7%	1,429	1,437	8	0.6%	61.7%	1,508	1,621	113	7.5%	61.7%	1,688	1,802	114	6.8%	61.7%	1,635	1,635	0	0.0%
63.0%	1,429	1,436	8	0.5%	63.0%	1,506	1,621	114	7.6%	63.0%	1,688	1,777	89	5.3%	63.0%	1,635	1,635	0	0.0%
64.2%	1,427	1,435	8	0.6%	64.2%	1,504	1,620	117	7.8%	64.2%	1,688	1,770	82	4.9%	64.2%	1,635	1,635	0	0.0%
65.4%	1,425	1,432	8	0.4%	65.4%	1,499	1,603	104	6.9%	65.4%	1,688	1,688	0	0.0%	65.4%	1,635	1,635	0	0.0%
66.7%	1,424	1,430	6	0.4%	66.7%	1,495	1,545	50	3.3%	66.7%	1,688	1,688	0	0.0%	66.7%	1,635	1,635	0	0.0%
67.9%	1,422	1,429	7	0.5%	67.9%	1,484	1,527	43	2.9%	67.9%	1,688	1,688	0	0.0%	67.9%	1,635	1,635	0	0.0%
69.1%	1,421	1,427	6	0.4%	69.1%	1,423	1,453	29	2.1%	69.1%	1,589	1,688	99	6.2%	69.1%	1,634	1,635	1	0.0%
70.4%	1,420	1,427	7	0.5%	70.4%	1,416	1,444	28	2.0%	70.4%	1,584	1,688	104	6.5%	70.4%	1,633	1,634	1	0.0%
71.6%	1,405	1,423	18	1.2%	71.6%	1,409	1,429	20	1.4%	71.6%	1,535	1,688	153	10.0%	71.6%	1,502	1,634	131	8.7%
72.8%	1,355	1,404	48	3.6%	72.8%	1,401	1,418	16	1.2%	72.8%	1,530	1,688	158	10.3%	72.8%	1,461	1,605	143	9.8%
74.1%	1,334	1,367	33	2.5%	74.1%	1,354	1,360	6	0.4%	74.1%	1,523	1,561	38	2.5%	74.1%	1,451	1,596	145	10.0%
75.3%	1,284	1,351	67	5.2%	75.3%	1,324	1,349	26	1.9%	75.3%	1,502	1,511	9	0.6%	75.3%	1,443	1,500	58	4.0%
76.5%	1,199	1,335	136	11.3%	76.5%	1,301	1,257	-44	-3.4%	76.5%	1,418	1,460	43	3.0%	76.5%	1,425	1,494	70	4.9%
77.8%	1,100	1,261	161	14.7%	77.8%	1,205	1,250	46	3.8%	77.8%	1,414	1,452	39	2.7%	77.8%	1,425	1,425	0	0.0%
79.0%	1,050	1,241	191	18.2%	79.0%	1,092	1,201	109	10.0%	79.0%	1,411	1,431	20	1.4%	79.0%	1,425	1,425	0	0.0%
80.2%	978	1,209	231	23.6%	80.2%	1,042	1,196	154	14.7%	80.2%	1,403	1,362							

Table SW-28-b  
American River at Watt Avenue, Monthly Flow Probability of Exceedance

Percent Exceedance Probability	February			Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	WSIP 2030 Without Project Monthly Flow (CFS)		
0.0%	37,256	37,256	0	0.0%	
1.2%	25,507	25,507	0	0.0%	
2.5%	25,315	25,308	-7	0.0%	
3.7%	19,024	19,024	0	0.0%	
4.9%	18,304	18,304	0	0.0%	
6.2%	18,048	18,048	0	0.0%	
7.4%	17,892	17,889	-3	0.0%	
8.6%	17,702	17,878	176	0.9%	
9.9%	17,132	17,132	0	0.0%	
11.1%	16,631	16,628	-3	0.0%	
12.3%	16,491	16,492	0	0.0%	
13.6%	15,870	15,870	0	0.0%	
14.8%	15,301	15,298	-3	0.0%	
16.0%	15,146	14,889	-257	-1.7%	
17.3%	14,095	14,095	0	0.0%	
18.5%	14,078	14,078	0	0.0%	
19.8%	14,023	14,024	1	0.0%	
21.0%	12,871	12,867	-4	0.0%	
22.2%	12,866	12,835	-31	-0.4%	
23.5%	11,968	11,968	0	0.0%	
24.7%	11,481	11,550	69	0.6%	
25.9%	11,063	11,064	0	0.0%	
27.2%	10,685	10,685	0	0.0%	
28.4%	10,573	10,575	2	0.0%	
29.6%	9,629	9,647	18	0.2%	
30.9%	8,524	8,524	0	0.0%	
32.1%	8,214	8,214	0	0.0%	
33.3%	7,213	7,215	3	0.0%	
34.6%	7,171	7,171	0	0.0%	
35.8%	7,078	7,080	1	0.0%	
37.0%	6,948	6,947	-1	0.0%	
38.3%	6,912	6,912	0	0.0%	
39.5%	6,738	6,866	128	1.9%	
40.7%	6,694	6,676	-18	-0.3%	
42.0%	6,663	6,663	0	0.0%	
43.2%	6,012	6,010	-2	0.0%	
44.4%	5,993	5,993	0	0.0%	
45.7%	5,993	5,990	-3	0.0%	
46.9%	5,856	5,854	-2	0.0%	
48.1%	5,492	5,485	-8	-0.1%	
49.4%	5,447	5,171	-277	-5.1%	
50.6%	5,171	4,824	-347	-6.7%	
51.9%	4,399	4,399	0	0.0%	
53.1%	4,103	3,941	-162	-4.0%	
54.3%	3,942	3,914	-28	-0.7%	
55.6%	3,793	3,793	0	0.0%	
56.8%	3,731	3,574	-157	-4.2%	
58.0%	3,574	3,489	-85	-2.4%	
59.3%	3,486	3,302	-184	-5.3%	
60.5%	3,481	3,011	-470	-13.5%	
61.7%	3,433	3,007	-426	-12.4%	
63.0%	2,991	2,715	-276	-9.2%	
64.2%	2,904	2,574	-330	-11.4%	
65.4%	2,708	2,452	-256	-9.4%	
66.7%	2,574	2,366	-208	-8.1%	
67.9%	2,376	2,329	-47	-2.0%	
69.1%	2,276	2,276	0	0.0%	
70.4%	2,199	2,169	-30	-1.4%	
71.6%	2,087	2,088	1	0.0%	
72.8%	1,880	1,882	202	12.0%	
74.1%	1,508	1,680	172	11.4%	
75.3%	1,498	1,449	-49	-3.3%	
76.5%	1,378	1,378	0	0.0%	
77.8%	1,376	1,376	0	0.0%	
79.0%	1,376	1,376	0	0.0%	
80.2%	1,376	1,376	0	0.0%	
81.5%	1,376	1,376	0	0.0%	
82.7%	1,376	840	-536	-38.9%	
84.0%	1,376	777	-599	-43.5%	
85.2%	1,228	635	-593	-48.3%	
86.4%	1,213	1,262	49	4.0%	
87.7%	1,200	1,256	57	4.7%	
88.9%	1,197	1,248	51	4.3%	
90.1%	1,197	1,200	3	0.2%	
91.4%	1,142	1,107	-35	-3.1%	
92.6%	1,129	1,197	69	6.1%	
93.8%	1,086	1,197	111	10.3%	
95.1%	1,003	1,197	194	19.3%	
96.3%	993	1,109	116	11.7%	
97.5%	936	889	-47	-5.0%	
98.8%	362	362	0	0.0%	
100.0%	326	326	0	0.0%	

Percent Exceedance Probability	March			Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	WSIP 2030 Without Project Monthly Flow (CFS)		
0.0%	20,866	20,866	0	0.0%	
1.2%	19,961	19,961	0	0.0%	
2.5%	18,733	18,733	0	0.0%	
3.7%	16,494	16,494	0	0.0%	
4.9%	14,088	14,088	0	0.0%	
6.2%	12,782	12,780	-2	0.0%	
7.4%	12,658	12,659	1	0.0%	
8.6%	12,103	12,103	0	0.0%	
9.9%	11,986	11,987	0	0.0%	
11.1%	11,059	11,046	-13	-0.1%	
12.3%	9,928	9,923	-5	0.0%	
13.6%	9,266	9,666	400	4.3%	
14.8%	9,137	9,262	125	1.4%	
16.0%	8,890	8,895	5	0.1%	
17.3%	8,756	8,756	0	0.0%	
18.5%	8,317	8,316	-1	0.0%	
19.8%	8,137	8,136	-1	0.0%	
21.0%	7,634	7,634	0	0.0%	
22.2%	7,587	7,587	0	0.0%	
23.5%	7,420	7,423	3	0.0%	
24.7%	7,409	7,409	0	0.0%	
25.9%	6,656	6,621	-36	-0.5%	
27.2%	6,328	6,328	-108	-1.6%	
28.4%	6,328	6,326	-2	0.0%	
29.6%	6,225	6,225	0	0.0%	
30.9%	5,813	5,808	-5	-0.1%	
32.1%	5,518	5,517	-1	0.0%	
33.3%	5,486	5,488	2	0.0%	
34.6%	5,301	5,299	-2	0.0%	
35.8%	5,215	5,215	0	0.0%	
37.0%	5,215	5,022	-193	-3.7%	
38.3%	5,022	5,005	-17	-0.3%	
39.5%	4,905	4,905	0	0.0%	
40.7%	4,855	4,756	-99	-2.0%	
42.0%	4,754	4,752	-2	0.0%	
43.2%	4,564	4,564	0	0.0%	
44.4%	4,409	4,410	1	0.0%	
45.7%	4,250	4,249	-1	0.0%	
46.9%	3,877	3,877	0	0.0%	
48.1%	3,800	3,841	40	1.1%	
49.4%	3,738	3,800	63	1.7%	
50.6%	3,740	3,740	0	0.0%	
51.9%	3,670	3,714	44	1.2%	
53.1%	3,601	3,672	71	2.0%	
54.3%	3,495	3,601	106	3.0%	
55.6%	3,396	3,405	8	0.2%	
56.8%	3,245	3,395	150	4.6%	
58.0%	3,108	3,235	129	4.1%	
59.3%	3,079	3,079	0	0.0%	
60.5%	3,051	3,055	5	0.2%	
61.7%	2,990	2,991	1	0.0%	
63.0%	2,739	2,542	-197	-7.2%	
64.2%	2,544	2,544	-200	-7.9%	
65.4%	2,167	2,167	0	0.0%	
66.7%	2,105	2,105	0	0.0%	
67.9%	1,813	2,032	218	12.0%	
69.1%	1,757	1,813	57	3.2%	
70.4%	1,692	1,712	20	1.2%	
71.6%	1,680	1,692	12	0.7%	
72.8%	1,679	1,680	1	0.0%	
74.1%	1,669	1,679	10	0.6%	
75.3%	1,663	1,675	12	0.7%	
76.5%	1,617	1,671	54	3.3%	
77.8%	1,419	1,663	245	17.3%	
79.0%	1,237	1,617	380	30.8%	
80.2%	1,231	1,439	208	16.9%	
81.5%	1,169	1,385	216	18.5%	
82.7%	840	840	0	0.0%	
84.0%	777	745	-32	-4.1%	
85.2%	743	741	-2	-0.2%	
86.4%	742	936	194	26.3%	
87.7%	742	741	-1	-0.1%	
88.9%	741	741	0	0.0%	
90.1%	741	741	-1	-0.1%	
91.4%	741	741	0	0.0%	
92.6%	740	740	0	0.0%	
93.8%	740	740	0	0.0%	
95.1%	740	740	0	0.0%	
96.3%	740	740	0	0.0%	
97.5%	737	737	0	0.0%	
98.8%	357	474	117	32.8%	
100.0%	357	357	0	0.0%	

Percent Exceedance Probability	April			Absolute Difference (CFS)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	WSIP 2030 Without Project Monthly Flow (CFS)		
0.0%	19,128	19,128	0	0.0%	
1.2%	16,801	16,802	1	0.0%	
2.5%	11,770	11,767	-3	0.0%	
3.7%	10,237	10,239	1	0.0%	
4.9%	9,215	9,215	0	0.0%	
6.2%	8,092	8,093	1	0.0%	
7.4%	7,809	7,810	1	0.0%	
8.6%	7,104	7,104	0	0.0%	
9.9%	6,830	6,834	0	0.0%	
11.1%	6,608	6,608	0	0.0%	
12.3%	6,383	6,382	0	0.0%	
13.6%	6,256	6,256	0	0.0%	
14.8%	6,202	6,202	0	0.0%	
16.0%	6,054	6,054	0	0.0%	
17.3%	5,605	5,600	-5	-0.1%	
18.5%	5,324	5,324	0	0.0%	
19.8%	5,082	5,079	-3	-0.1%	
21.0%	4,637	4,638	0	0.0%	
22.2%	4,594	4,596	2	0.0%	
23.5%	4,462	4,462	0	0.0%	
24.7%	4,308	4,308	0	0.0%	
25.9%	4,308	4,297	-11	-0.2%	
27.2%	3,896	3,896	0	0.0%	
28.4%	3,850	3,854	3	0.1%	
29.6%	3,470	3,468	-2	0.0%	
30.9%	3,012	3,011	-1	0.0%	
32.1%	2,943	2,943	0	0.0%	
33.3%	2,910	2,910	0	0.0%	
34.6%	2,904	2,904	0	0.0%	
35.8%	2,733	2,886	153	5.6%	
37.0%	2,731	2,731	252	10.2%	
38.3%	2,398	2,398	0	0.0%	
39.5%	2,376	2,355	-21	-0.9%	
40.7%	2,355	2,311	-43	-1.8%	
42.0%	2,312	2,248	-64	-2.7%	
43.2%	2,245	2,245	0	0.0%	
44.4%	2,012	1,685	-327	-16.3%	
45.7%	1,903	1,684	-219	-11.5%	
46.9%	1,685	1,670	-16	-0.9%	
48.1%	1,684	1,687	17	1.0%	
49.4%	1,671	1,657	-13	-0.8%	
50.6%	1,670	1,656	-14	-0.8%	
51.9%	1,667	1,655	-12	-0.7%	
53.1%	1,656	1,655	-1	0.0%	
54.3%	1,656	1,643	-13	-0.8%	
55.6%	1,655	1,615	-40	-2.4%	
56.8%	1,653	1,609	-44	-2.6%	
58.0%	1,603	1,603	-39	-2.4%	
59.3%	1,609	1,580	-30	-1.8%	
60.5%	1,547	1,527	-20	-1.3%	
61.7%	1,527	1,445	-82	-5.4%	
63.0%	1,425	1,383	-42	-3.0%	
64.2%	1,310	1,360	49	3.8%	
65.4%	1,235	1,330	96	7.7%	
66.7%	1,229	1,310	81	6.6%	
67.9%	1,219	1,310	91	7.5%	
69.1%	1,152	1,279	127	11.0%	
70.4%	1,110	1,233	123	11.1%	
71.6%	1,073	1,229	156	14.5%	
72.8%	1,073	1,111	38	3.5%	
74.1%	1,045	1,073	28	2.7%	
75.3%	1,011	1,061	50	4.9%	
76.5%	953	1,045	92	9.7%	
77.8%	942	1,011	70	7.4%	
79.0%	940	973	32	3.4%	
80.2%	896	947	51	5.7%	
81.5%	873	947	74	8.4%	
82.7%	821	947	126	15.3%	
84.0%	789	942	153	19.3%	
85.2%	755	940	186	24.6%	
86.4%	747	936	189	25.3%	
87.7%	747	935	188	25.2%	
88.9%	747	931	184	24.6%	
90.1%	747	923	177	23.6%	
91.4%	747	907	161	21.5%	
92.6%	746	896	150	20.1%	
93.8%	736	882	146	19.8%	
95.1%	734	801	66	9.0%	
96.3%	731	788	57	7.8%	
97.5%	723	755			

Table SW-28-b  
American River at Watt Avenue, Monthly Flow  
Probability of Exceedance

June					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	4,270	3,575	-695	-16.3%	
1.2%	4,087	3,162	-924	-22.1%	
2.5%	3,837	2,954	-883	-25.6%	
3.7%	3,704	2,729	-975	-26.3%	
4.9%	3,623	2,652	-970	-26.8%	
6.2%	3,095	2,638	-458	-14.8%	
7.4%	2,843	2,580	-263	-9.2%	
8.6%	2,785	2,563	-222	-8.0%	
9.9%	2,729	2,535	-194	-6.4%	
11.1%	2,544	2,544	0	0.0%	
12.3%	2,352	2,493	141	6.0%	
13.6%	2,280	2,352	73	3.2%	
14.8%	2,247	2,297	50	2.2%	
16.0%	2,153	2,153	0	0.0%	
17.3%	2,151	2,148	-3	-0.1%	
18.5%	2,083	2,127	44	2.1%	
19.8%	2,042	2,123	80	3.9%	
21.0%	2,019	2,084	65	3.2%	
22.2%	2,000	2,019	19	0.9%	
23.5%	1,958	2,000	42	2.2%	
24.7%	1,920	1,952	33	1.7%	
25.9%	1,919	1,947	27	1.4%	
27.2%	1,918	1,931	13	0.7%	
28.4%	1,913	1,921	8	0.4%	
29.6%	1,902	1,951	41	2.1%	
30.9%	1,861	1,842	-19	-1.0%	
32.1%	1,851	1,775	-76	-4.1%	
33.3%	1,766	1,725	-41	-2.3%	
34.6%	1,725	1,695	-30	-1.7%	
35.8%	1,707	1,686	-21	-1.2%	
37.0%	1,686	1,686	0	0.0%	
38.3%	1,686	1,685	-1	-0.0%	
39.5%	1,685	1,685	0	0.0%	
40.7%	1,685	1,685	0	0.0%	
42.0%	1,685	1,685	0	0.0%	
43.2%	1,685	1,685	0	0.0%	
44.4%	1,685	1,685	0	0.0%	
45.7%	1,685	1,685	0	0.0%	
46.9%	1,685	1,681	-4	-0.2%	
48.1%	1,683	1,676	-7	-0.4%	
49.4%	1,681	1,676	-5	-0.3%	
50.6%	1,678	1,673	-5	-0.3%	
51.9%	1,676	1,667	-9	-0.5%	
53.1%	1,675	1,665	-10	-0.6%	
54.3%	1,667	1,642	-25	-1.5%	
55.6%	1,665	1,534	-132	-7.9%	
56.8%	1,642	1,512	-130	-7.9%	
58.0%	1,580	1,500	-81	-5.1%	
59.3%	1,517	1,507	-10	-0.6%	
60.5%	1,512	1,504	-8	-0.5%	
61.7%	1,496	1,503	6	0.4%	
63.0%	1,462	1,492	30	2.0%	
64.2%	1,451	1,478	28	1.9%	
65.4%	1,362	1,472	110	8.1%	
66.7%	1,339	1,467	127	9.5%	
67.9%	1,299	1,463	165	12.7%	
69.1%	1,294	1,461	168	13.0%	
70.4%	1,169	1,461	292	25.0%	
71.6%	1,152	1,461	310	26.9%	
72.8%	1,150	1,459	310	26.9%	
74.1%	1,116	1,453	337	30.2%	
75.3%	1,104	1,443	339	30.7%	
76.5%	1,098	1,433	335	30.5%	
77.8%	1,081	1,422	340	31.5%	
79.0%	1,074	1,377	303	28.2%	
80.2%	1,069	1,339	270	25.3%	
81.5%	1,008	1,322	314	31.1%	
82.7%	998	1,289	291	29.1%	
84.0%	994	1,277	283	28.5%	
85.2%	953	1,234	281	29.5%	
86.4%	895	1,187	292	32.6%	
87.7%	895	1,168	273	30.6%	
88.9%	850	1,142	292	34.4%	
90.1%	842	1,058	215	25.8%	
91.4%	791	1,028	238	30.1%	
92.6%	784	900	116	14.8%	
93.8%	769	839	70	9.1%	
95.1%	746	836	89	12.0%	
96.3%	726	747	21	2.9%	
97.5%	567	592	25	4.4%	
98.8%	463	510	47	10.2%	
100.0%	323	390	67	20.7%	

July					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	4,948	4,940	-8	-0.2%	
1.2%	4,847	4,839	-8	-0.2%	
2.5%	4,947	4,939	-8	-0.2%	
3.7%	4,946	4,939	-8	-0.2%	
4.9%	2,943	4,937	-6	-0.1%	
6.2%	4,943	4,937	-6	-0.1%	
7.4%	4,942	4,937	-5	-0.1%	
8.6%	4,842	4,836	-6	-0.1%	
9.9%	4,942	4,934	-8	-0.2%	
11.1%	4,941	4,929	-11	-0.2%	
12.3%	4,940	4,726	-215	-4.3%	
13.6%	4,939	4,633	-306	-6.2%	
14.8%	4,938	4,628	-310	-6.3%	
16.0%	4,937	4,334	-603	-12.2%	
17.3%	4,937	4,307	-630	-12.8%	
18.5%	4,937	4,304	-633	-12.8%	
19.8%	4,937	4,228	-709	-14.4%	
21.0%	4,937	4,217	-720	-14.6%	
22.2%	4,937	4,064	-872	-17.7%	
23.5%	4,935	3,958	-977	-19.8%	
24.7%	4,933	3,898	-1,035	-21.0%	
25.9%	4,932	3,785	-1,148	-23.3%	
27.2%	4,927	3,664	-1,263	-25.6%	
28.4%	4,883	3,629	-1,253	-25.4%	
29.6%	4,751	3,526	-1,225	-25.8%	
30.9%	4,620	3,491	-1,129	-24.4%	
32.1%	4,530	3,344	-1,186	-26.2%	
33.3%	4,480	3,303	-1,177	-26.3%	
34.6%	4,369	3,248	-1,121	-25.7%	
35.8%	4,286	3,087	-1,199	-28.0%	
37.0%	4,167	2,910	-1,257	-30.2%	
38.3%	4,085	2,908	-1,176	-28.9%	
39.5%	4,109	2,901	-1,208	-29.4%	
40.7%	4,032	2,779	-1,253	-31.1%	
42.0%	3,990	2,776	-1,214	-30.4%	
43.2%	3,865	2,665	-1,199	-30.9%	
44.4%	3,659	2,685	-974	-26.6%	
45.7%	3,649	2,593	-1,056	-28.9%	
46.9%	3,582	2,549	-1,033	-28.8%	
48.1%	3,493	2,502	-991	-28.4%	
49.4%	3,384	2,460	-923	-26.9%	
50.6%	3,308	2,418	-891	-27.6%	
51.9%	3,304	2,402	-903	-27.3%	
53.1%	3,271	2,399	-871	-26.6%	
54.3%	3,108	2,370	-739	-23.8%	
55.6%	3,085	2,369	-716	-23.2%	
56.8%	3,061	2,345	-715	-23.4%	
58.0%	3,026	2,344	-682	-22.5%	
59.3%	2,821	2,337	-483	-17.1%	
60.5%	2,801	2,335	-466	-16.7%	
61.7%	2,747	2,332	-415	-15.1%	
63.0%	2,734	2,324	-410	-15.0%	
64.2%	2,686	2,312	-373	-13.9%	
65.4%	2,568	2,306	-262	-10.2%	
66.7%	2,547	2,302	-245	-9.6%	
67.9%	2,512	2,299	-213	-8.5%	
69.1%	2,497	2,290	-207	-8.3%	
70.4%	2,468	2,280	-188	-7.6%	
71.6%	2,352	2,279	-74	-3.1%	
72.8%	2,314	2,274	-40	-1.7%	
74.1%	2,307	2,269	-39	-1.7%	
75.3%	2,296	1,932	-364	-15.8%	
76.5%	1,772	1,932	160	9.0%	
77.8%	1,763	1,932	169	9.6%	
79.0%	1,754	1,932	178	10.2%	
80.2%	1,753	1,931	178	10.2%	
81.5%	1,713	1,927	214	12.5%	
82.7%	1,687	1,770	83	4.9%	
84.0%	1,686	1,767	81	4.8%	
85.2%	1,685	1,702	17	1.0%	
86.4%	1,681	1,598	-83	-4.9%	
87.7%	1,677	1,541	-137	-8.2%	
88.9%	1,654	1,537	-117	-7.1%	
90.1%	1,451	1,433	-17	-1.2%	
91.4%	1,363	1,356	-7	-0.5%	
92.6%	1,157	1,287	129	11.2%	
93.8%	1,064	1,186	122	11.5%	
95.1%	1,041	1,115	74	7.1%	
96.3%	951	1,104	153	16.1%	
97.5%	834	1,084	250	30.0%	
98.8%	648	976	328	50.4%	
100.0%	471	351	-120	-25.5%	

August					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	3,300	2,878	-421	-12.8%	
1.2%	2,819	2,714	-104	-3.7%	
2.5%	2,720	2,541	-179	-6.6%	
3.7%	2,692	2,454	-238	-8.9%	
4.9%	2,686	2,292	-394	-14.7%	
6.2%	2,513	2,271	-243	-9.7%	
7.4%	2,411	2,252	-159	-6.6%	
8.6%	2,261	2,234	-27	-0.1%	
9.9%	2,225	1,932	-293	-13.1%	
11.1%	1,930	2,931	1	0.1%	
12.3%	1,930	1,930	1	0.0%	
13.6%	1,852	1,930	78	4.2%	
14.8%	1,752	1,930	177	10.1%	
16.0%	1,721	1,928	207	12.0%	
17.3%	1,707	1,926	220	12.9%	
18.5%	1,706	1,926	220	12.9%	
19.8%	1,687	1,920	233	13.8%	
21.0%	1,682	1,905	223	13.3%	
22.2%	1,680	1,862	182	10.9%	
23.5%	1,679	1,879	200	12.0%	
24.7%	1,677	1,751	74	4.4%	
25.9%	1,675	1,743	68	4.0%	
27.2%	1,675	1,743	68	4.0%	
28.4%	1,675	1,725	50	3.0%	
29.6%	1,722	1,722	0	0.0%	
30.9%	1,670	1,700	31	1.8%	
32.1%	1,667	1,678	12	0.7%	
33.3%	1,666	1,678	12	0.7%	
34.6%	1,665	1,671	6	0.3%	
35.8%	1,664	1,670	6	0.3%	
37.0%	1,661	1,661	0	0.0%	
38.3%	1,660	1,661	1	0.1%	
39.5%	1,659	1,660	1	0.1%	
40.7%	1,659	1,659	0	0.0%	
42.0%	1,659	1,659	0	0.0%	
43.2%	1,659	1,659	0	0.0%	
44.4%	1,659	1,659	0	0.0%	
45.7%	1,659	1,626	-33	-2.0%	
46.9%	1,659	1,595	-64	-3.8%	
48.1%	1,659	1,584	-75	-4.5%	
49.4%	1,659	1,537	-122	-7.4%	
50.6%	1,659	1,654	-5	-0.3%	
51.9%	1,623	1,533	-90	-5.5%	
53.1%	1,616	1,518	-98	-6.0%	
54.3%	1,484	1,504	20	1.4%	
55.6%	1,451	1,499	49	3.4%	
56.8%	1,426	1,476	50	3.5%	
58.0%	1,372	1,467	95	6.9%	
59.3%	1,369	1,453	84	6.2%	
60.5%	1,310	1,451	141	10.8%	
61.7%	1,212	1,436	224	18.4%	
63.0%	1,177	1,364	187	15.9%	
64.2%	1,155	1,310	154	13.4%	
65.4%	1,141	1,283	142	12.5%	
66.7%	1,137	1,257	120	10.6%	
67.9%	1,118	1,250	132	11.8%	
69.1%	1,101	1,247	146	13.3%	
70.4%	1,094	1,			

Figure SW-29-b  
American River at H Street, Monthly Flow  
Probability of Exceedance

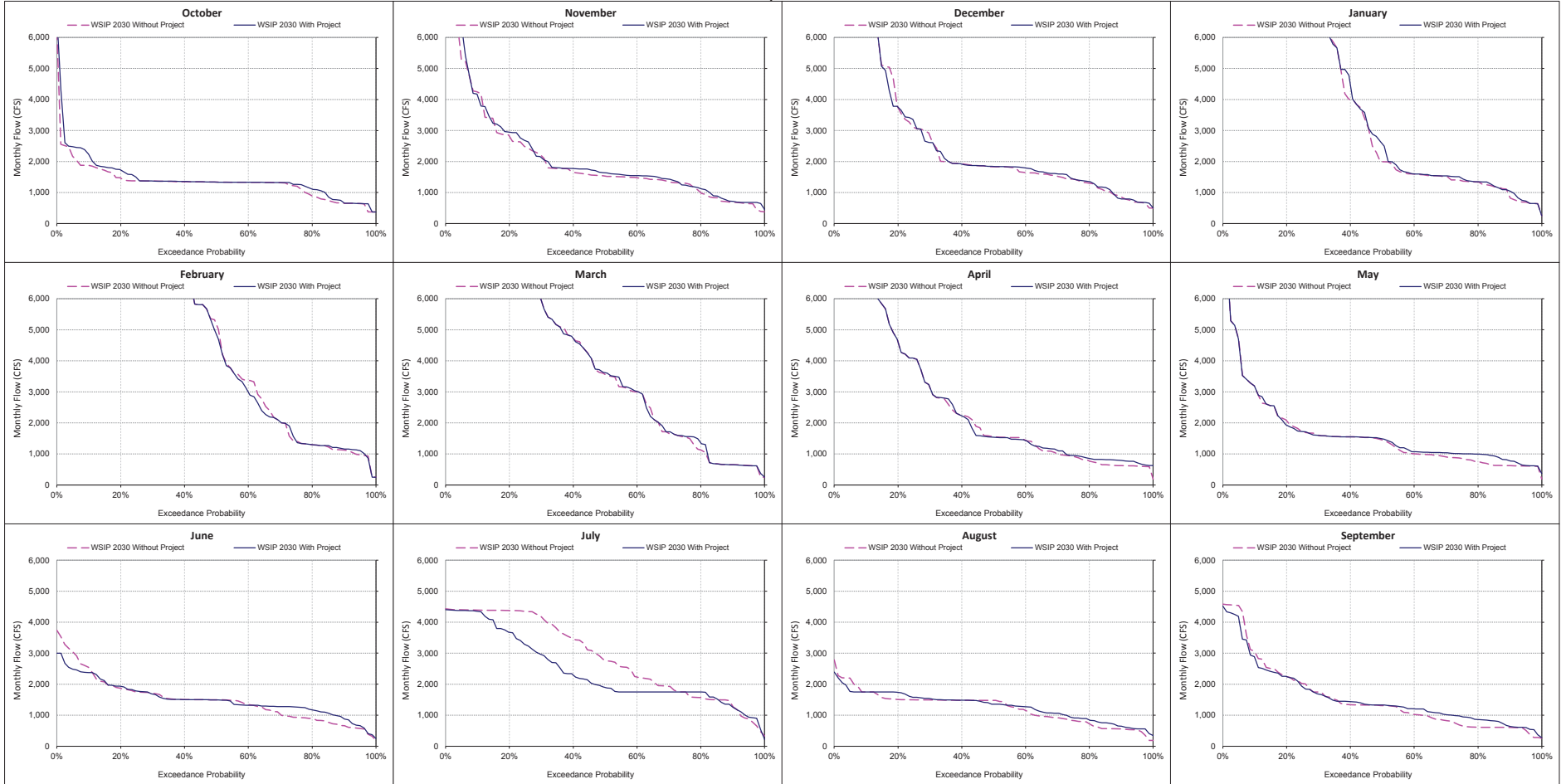


Table SW-29-b  
American River at H Street, Monthly Flow  
Probability of Exceedance

Percent Exceedance Probability	October			
	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	6,213	6,668	455	7.3%
1.2%	2,656	4,300	1,645	68.3%
2.5%	2,511	2,611	100	4.0%
3.7%	2,474	2,492	19	0.8%
4.9%	2,169	2,477	308	14.2%
6.2%	2,042	2,452	410	20.1%
7.4%	1,879	2,448	569	30.3%
8.6%	1,878	2,361	502	26.7%
9.9%	1,879	2,242	363	19.3%
11.1%	1,849	2,015	166	9.0%
12.3%	1,799	1,879	80	4.5%
13.6%	1,756	1,849	92	5.2%
14.8%	1,721	1,829	108	6.3%
16.0%	1,666	1,805	139	8.4%
17.3%	1,645	1,790	144	8.8%
18.5%	1,480	1,755	275	18.5%
19.8%	1,479	1,746	267	18.0%
21.0%	1,399	1,662	263	18.8%
22.2%	1,383	1,595	212	14.6%
23.5%	1,378	1,578	200	14.5%
24.7%	1,377	1,503	125	9.1%
25.9%	1,376	1,378	2	0.2%
27.2%	1,375	1,376	1	0.1%
28.4%	1,372	1,373	1	0.1%
29.6%	1,370	1,370	0	0.0%
30.9%	1,370	1,370	0	0.0%
32.1%	1,364	1,368	4	0.3%
33.3%	1,363	1,367	4	0.3%
34.6%	1,361	1,366	5	0.4%
35.8%	1,360	1,366	6	0.4%
37.0%	1,352	1,363	11	0.8%
38.3%	1,348	1,361	14	1.0%
39.5%	1,347	1,360	12	0.9%
40.7%	1,347	1,356	9	0.7%
42.0%	1,346	1,351	6	0.4%
43.2%	1,345	1,348	3	0.2%
44.4%	1,344	1,347	3	0.2%
45.7%	1,343	1,346	4	0.3%
46.9%	1,340	1,341	1	0.1%
48.1%	1,338	1,338	0	0.0%
49.4%	1,338	1,336	-1	-0.1%
50.6%	1,332	1,332	0	0.0%
51.9%	1,331	1,335	-1	-0.0%
53.1%	1,335	1,334	-1	0.0%
54.3%	1,333	1,333	0	0.0%
55.6%	1,333	1,333	1	0.1%
56.8%	1,332	1,332	0	0.0%
58.0%	1,332	1,332	0	0.0%
59.3%	1,331	1,332	1	0.1%
60.5%	1,329	1,331	1	0.1%
61.7%	1,329	1,329	0	0.0%
63.0%	1,329	1,328	-1	-0.1%
64.2%	1,329	1,327	-1	-0.1%
65.4%	1,327	1,326	-1	-0.1%
66.7%	1,327	1,326	-1	-0.1%
67.9%	1,323	1,326	3	0.2%
69.1%	1,321	1,325	4	0.3%
70.4%	1,315	1,325	10	0.8%
71.6%	1,310	1,322	12	0.9%
72.8%	1,242	1,321	79	6.4%
74.1%	1,220	1,266	45	3.7%
75.3%	1,201	1,264	63	5.3%
76.5%	1,103	1,254	151	13.6%
77.8%	1,002	1,199	197	19.7%
79.0%	949	1,154	205	21.6%
80.2%	875	1,099	224	25.5%
81.5%	850	1,091	240	28.3%
82.7%	796	1,054	259	32.5%
84.0%	776	1,002	227	29.2%
85.2%	738	890	152	15.2%
86.4%	700	772	72	10.4%
87.7%	667	769	102	15.4%
88.9%	663	752	89	13.4%
90.1%	653	659	7	1.0%
91.4%	652	653	1	0.1%
92.6%	650	652	2	0.3%
93.8%	647	651	4	0.5%
95.1%	642	642	0	0.1%
96.3%	637	638	1	0.2%
97.5%	375	634	259	69.1%
98.8%	375	375	0	0.0%
100.0%	375	375	0	0.0%

Percent Exceedance Probability	November			
	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	20,330	21,669	1,339	6.6%
1.2%	15,359	14,582	-777	-5.1%
2.5%	8,049	8,783	734	9.1%
3.7%	6,457	7,439	982	15.2%
4.9%	5,287	6,420	1,133	21.4%
6.2%	5,244	5,427	183	3.5%
7.4%	4,772	4,772	1	0.0%
8.6%	4,276	4,196	-79	-1.9%
9.9%	4,246	4,177	-69	-1.6%
11.1%	4,181	3,786	-396	-9.5%
12.3%	3,425	3,773	348	10.2%
13.6%	3,412	3,465	53	1.5%
14.8%	3,395	3,233	-162	-4.8%
16.0%	2,932	3,208	277	9.4%
17.3%	2,891	3,118	227	7.8%
18.5%	2,859	2,968	109	3.8%
19.8%	2,856	2,951	95	3.3%
21.0%	2,648	2,936	288	10.9%
22.2%	2,642	2,934	292	11.1%
23.5%	2,633	2,758	125	4.7%
24.7%	2,490	2,686	196	7.9%
25.9%	2,427	2,630	203	8.4%
27.2%	2,350	2,411	62	2.6%
28.4%	2,295	2,171	-124	-5.4%
29.6%	2,231	2,165	-66	-3.0%
30.9%	2,099	2,053	-46	-2.2%
32.1%	1,797	2,000	203	11.3%
33.3%	1,787	1,811	24	1.3%
34.6%	1,775	1,802	27	1.5%
35.8%	1,773	1,797	24	1.3%
37.0%	1,773	1,773	0	0.0%
38.3%	1,768	1,773	7	0.4%
39.5%	1,674	1,773	99	5.9%
40.7%	1,638	1,767	129	7.9%
42.0%	1,624	1,762	138	8.5%
43.2%	1,606	1,600	-67	-4.2%
44.4%	1,589	1,757	169	10.6%
45.7%	1,563	1,726	163	10.4%
46.9%	1,556	1,707	151	9.7%
48.1%	1,547	1,658	112	7.2%
49.4%	1,540	1,640	99	6.4%
50.6%	1,537	1,629	92	6.0%
51.9%	1,519	1,605	87	5.7%
53.1%	1,517	1,593	76	5.0%
54.3%	1,510	1,589	79	5.2%
55.6%	1,506	1,568	62	4.1%
56.8%	1,497	1,555	58	3.8%
58.0%	1,492	1,546	54	3.6%
59.3%	1,487	1,544	57	3.8%
60.5%	1,469	1,542	72	4.9%
61.7%	1,464	1,538	74	5.1%
63.0%	1,453	1,535	82	5.6%
64.2%	1,423	1,526	103	7.2%
65.4%	1,423	1,517	94	6.6%
66.7%	1,416	1,496	80	5.6%
67.9%	1,403	1,448	45	3.2%
69.1%	1,375	1,446	72	5.2%
70.4%	1,334	1,424	91	6.8%
71.6%	1,319	1,385	66	5.0%
72.8%	1,316	1,348	32	2.4%
74.1%	1,307	1,249	-58	-4.5%
75.3%	1,298	1,239	-60	-4.6%
76.5%	1,265	1,206	-59	-4.7%
77.8%	1,169	1,190	21	1.8%
79.0%	1,087	1,157	70	6.5%
80.2%	973	1,121	148	15.2%
81.5%	939	1,090	151	16.1%
82.7%	859	1,005	147	17.1%
84.0%	833	893	60	7.2%
85.2%	830	888	59	7.1%
86.4%	720	819	99	13.7%
87.7%	711	776	65	9.2%
88.9%	694	720	26	3.7%
90.1%	680	711	32	4.7%
91.4%	679	691	12	1.8%
92.6%	667	682	15	2.3%
93.8%	648	681	33	5.1%
95.1%	643	680	37	5.7%
96.3%	639	679	40	6.3%
97.5%	447	679	232	51.9%
98.8%	391	649	257	65.7%
100.0%	375	447	72	19.2%

Percent Exceedance Probability	December			
	WSIP 2030 Without Project		WSIP 2030 With Project	
	Monthly Flow (CFS)	Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)
0.0%	21,204	21,648	444	2.1%
1.2%	20,416	20,575	159	0.8%
2.5%	20,308	20,406	98	0.5%
3.7%	19,439	19,658	219	1.1%
4.9%	19,154	19,160	7	0.0%
6.2%	17,470	17,464	-6	0.0%
7.4%	17,421	17,410	-11	-0.1%
8.6%	13,381	13,379	-2	-0.1%
9.9%	13,093	12,638	-455	-3.5%
11.1%	9,187	9,202	15	0.2%
12.3%	8,331	7,326	-1,005	-12.1%
13.6%	6,159	6,158	-3	0.0%
14.8%	5,114	5,072	-42	-0.8%
16.0%	5,063	4,937	-126	-2.5%
17.3%	5,039	4,297	-742	-14.7%
18.5%	4,673	3,783	-890	-19.0%
19.8%	3,791	3,779	-11	-0.3%
21.0%	3,547	3,651	104	2.9%
22.2%	3,360	3,436	76	2.3%
23.5%	3,276	3,419	143	4.4%
24.7%	3,119	3,358	239	7.7%
25.9%	3,052	3,064	12	0.4%
27.2%	3,047	3,047	0	0.0%
28.4%	2,990	2,658	-332	-11.1%
29.6%	2,915	2,627	-288	-9.9%
30.9%	2,603	2,606	2	0.1%
32.1%	2,428	2,349	-80	-3.3%
33.3%	2,007	2,325	319	15.9%
34.6%	2,000	2,106	106	5.3%
35.8%	2,000	2,000	0	0.0%
37.0%	1,938	1,938	0	0.0%
38.3%	1,938	1,934	-4	-0.2%
39.5%	1,935	1,931	-4	-0.2%
40.7%	1,917	1,898	-19	-1.0%
42.0%	1,898	1,877	-22	-1.1%
43.2%	1,877	1,872	-5	-0.3%
44.4%	1,869	1,870	1	0.1%
45.7%	1,867	1,859	-7	-0.4%
46.9%	1,859	1,859	0	0.0%
48.1%	1,834	1,846	12	0.6%
49.4%	1,832	1,841	9	0.5%
50.6%	1,832	1,838	5	0.3%
51.9%	1,831	1,836	4	0.2%
53.1%	1,830	1,835	5	0.3%
54.3%	1,826	1,830	4	0.2%
55.6%	1,809	1,829	20	1.1%
56.8%	1,807	1,827	21	1.2%
58.0%	1,867	1,822	-45	-2.4%
59.3%	1,654	1,804	150	9.1%
60.5%	1,636	1,787	151	9.3%
61.7%	1,634	1,768	134	8.2%
63.0%	1,631	1,710	79	4.8%
64.2%	1,600	1,673	73	4.6%
65.4%	1,597	1,663	67	4.2%
66.7%	1,592	1,628	36	2.2%
67.9%	1,560	1,613	53	3.4%
69.1%	1,550	1,613	63	4.0%
70.4%	1,514	1,600	86	5.7%
71.6%	1,488	1,597	109	7.3%
72.8%	1,439	1,579	140	9.7%
74.1%	1,437	1,468	32	2.2%
75.3%	1,429	1,430	0	0.0%
76.5%	1,387	1,402	15	1.1%
77.8%	1,332	1,384	51	3.8%
79.0%	1,317	1,368	51	3.9%
80.2%	1,294	1,345	51	3.9%
81.5%	1,278	1,276	-2	-0.2%
82.7%	1,142	1,179	38	3.3%
84.0%	1,103	1,179	76	6.8%
85.2%	1,035	1,158	123	11.9%
86.4%	1,023	1,094	70	6.9%
87.7%	936	944	8	0.9%
88.9%	908	914	-4	-0.3%
90.1%	847	794	-53	-6.3%
91.4%	790	790	0	0.0%
92.6%	755	788	33	4.4%
93.8%	693	754	61	8.8%
95.1%	689	693	4	0.6%
96.3%	680	683	3	0.5





Table SW-29-b  
American River at H Street, Monthly Flow  
Probability of Exceedance

June						July						August						September					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	3,738	3,000	-738	-19.7%		0.0%	4,432	4,403	-29	-0.7%		0.0%	2,786	2,392	-393	-14.1%		0.0%	4,582	4,521	-62	-1.3%	
1.2%	3,535	3,000	-535	-15.1%		1.2%	4,415	4,400	-16	-0.4%		1.2%	2,277	2,201	-77	-3.4%		1.2%	4,566	4,336	-230	-5.0%	
2.5%	3,284	2,678	-606	-18.5%		2.5%	4,403	4,388	-15	-0.3%		2.5%	2,206	2,048	-158	-7.3%		2.5%	4,560	4,301	-260	-5.7%	
3.7%	3,159	2,546	-612	-19.4%		3.7%	4,403	4,375	-28	-0.6%		3.7%	2,202	1,970	-232	-10.6%		3.7%	4,545	4,252	-293	-6.4%	
4.9%	3,048	2,482	-566	-18.6%		4.9%	4,399	4,374	-25	-0.6%		4.9%	2,199	1,766	-432	-19.7%		4.9%	4,539	4,194	-345	-7.6%	
6.2%	2,917	2,458	-459	-15.7%		6.2%	4,398	4,374	-24	-0.5%		6.2%	2,002	1,750	-252	-12.6%		6.2%	4,335	3,451	-884	-20.4%	
7.4%	2,861	2,408	-453	-15.8%		7.4%	4,395	4,371	-24	-0.6%		7.4%	1,931	1,750	-181	-9.4%		7.4%	4,379	3,424	-956	-21.9%	
8.6%	2,808	2,381	-427	-15.2%		8.6%	4,383	4,367	-16	-0.4%		8.6%	1,750	1,750	0	0.0%		8.6%	4,377	3,116	-1,261	-28.8%	
9.9%	2,546	2,373	-174	-6.8%		9.9%	4,396	4,351	-45	-1.0%		9.9%	1,750	1,750	0	0.0%		9.9%	3,070	2,885	-185	-6.0%	
11.1%	2,371	2,371	0	0.0%		11.1%	4,388	4,337	-52	-1.2%		11.1%	2,002	1,750	-252	-12.6%		11.1%	2,830	2,538	-292	-10.3%	
12.3%	2,169	2,311	143	6.6%		12.3%	4,387	4,192	-195	-4.4%		12.3%	1,750	1,750	0	0.0%		12.3%	2,805	2,511	-294	-10.5%	
13.6%	2,098	2,169	70	3.3%		13.6%	4,385	4,094	-291	-6.6%		13.6%	1,672	1,750	78	4.7%		13.6%	2,544	2,459	-85	-3.4%	
14.8%	2,077	2,118	42	2.0%		14.8%	4,385	4,075	-310	-7.1%		14.8%	1,573	1,749	177	11.2%		14.8%	2,509	2,418	-91	-3.6%	
16.0%	1,970	1,970	0	0.0%		16.0%	4,385	3,794	-591	-13.5%		16.0%	1,542	1,749	207	13.4%		16.0%	2,507	2,380	-127	-5.1%	
17.3%	1,967	1,967	0	0.0%		17.3%	4,383	3,792	-591	-13.5%		17.3%	1,528	1,747	219	14.3%		17.3%	2,390	2,362	-28	-1.2%	
18.5%	1,898	1,942	44	2.3%		18.5%	4,381	3,755	-626	-14.3%		18.5%	1,527	1,746	219	14.3%		18.5%	2,309	2,257	-53	-2.3%	
19.8%	1,873	1,941	68	3.7%		19.8%	4,378	3,679	-699	-16.0%		19.8%	1,506	1,741	235	15.6%		19.8%	2,251	2,256	5	0.2%	
21.0%	1,836	1,914	78	4.3%		21.0%	4,378	3,656	-722	-16.5%		21.0%	1,503	1,724	221	14.7%		21.0%	2,220	2,213	-7	-0.3%	
22.2%	1,823	1,836	12	0.7%		22.2%	4,375	3,468	-907	-20.7%		22.2%	1,500	1,681	180	12.0%		22.2%	2,128	2,193	65	3.1%	
23.5%	1,794	1,823	29	1.6%		23.5%	4,367	3,407	-960	-22.0%		23.5%	1,486	1,610	122	7.5%		23.5%	2,125	2,100	-25	-1.2%	
24.7%	1,753	1,785	31	1.8%		24.7%	4,351	3,293	-1,058	-24.3%		24.7%	1,497	1,580	83	5.6%		24.7%	2,024	1,939	-85	-4.2%	
25.9%	1,744	1,770	25	1.5%		25.9%	4,340	3,232	-1,108	-25.5%		25.9%	1,496	1,575	78	5.2%		25.9%	2,009	1,840	-169	-8.4%	
27.2%	1,738	1,755	16	0.9%		27.2%	4,339	3,124	-1,214	-28.0%		27.2%	1,496	1,563	67	4.5%		27.2%	1,852	1,838	-14	-0.8%	
28.4%	1,737	1,752	15	0.9%		28.4%	4,263	3,035	-1,228	-28.8%		28.4%	1,496	1,546	50	3.4%		28.4%	1,750	1,750	0	0.0%	
29.6%	1,723	1,694	-29	-1.7%		29.6%	4,217	3,076	-1,141	-29.4%		29.6%	1,495	1,542	47	3.1%		29.6%	1,750	1,750	0	0.0%	
30.9%	1,694	1,668	-26	-1.5%		30.9%	4,082	2,921	-1,161	-28.4%		30.9%	1,491	1,521	30	2.0%		30.9%	1,750	1,663	-87	-5.0%	
32.1%	1,669	1,590	-79	-4.8%		32.1%	4,060	2,792	-1,268	-31.3%		32.1%	1,490	1,500	9	0.6%		32.1%	1,607	1,609	2	0.1%	
33.3%	1,583	1,542	-41	-2.6%		33.3%	3,931	2,700	-1,230	-31.3%		33.3%	1,489	1,498	9	0.6%		33.3%	1,585	1,549	-36	-2.3%	
34.6%	1,542	1,520	-22	-1.4%		34.6%	3,821	2,691	-1,130	-29.6%		34.6%	1,487	1,490	3	0.2%		34.6%	1,530	1,483	-46	-3.0%	
35.8%	1,524	1,514	-10	-0.7%		35.8%	3,680	2,527	-1,153	-31.3%		35.8%	1,486	1,489	3	0.2%		35.8%	1,484	1,446	-38	-2.6%	
37.0%	1,514	1,511	-3	-0.2%		37.0%	3,617	2,358	-1,259	-34.8%		37.0%	1,485	1,489	4	0.3%		37.0%	1,380	1,446	67	4.8%	
38.3%	1,511	1,508	-3	-0.2%		38.3%	3,547	2,345	-1,202	-33.9%		38.3%	1,484	1,484	0	0.0%		38.3%	1,352	1,446	94	7.0%	
39.5%	1,508	1,505	-3	-0.2%		39.5%	3,490	2,338	-1,152	-33.0%		39.5%	1,483	1,484	1	0.0%		39.5%	1,343	1,445	102	7.6%	
40.7%	1,505	1,505	0	0.0%		40.7%	3,430	2,233	-1,197	-34.9%		40.7%	1,483	1,483	0	0.0%		40.7%	1,335	1,436	101	7.6%	
42.0%	1,505	1,502	-3	-0.2%		42.0%	3,419	2,183	-1,236	-36.2%		42.0%	1,483	1,482	-1	-0.1%		42.0%	1,332	1,427	94	7.1%	
43.2%	1,502	1,502	0	0.0%		43.2%	3,321	2,171	-1,150	-34.6%		43.2%	1,471	1,480	9	0.6%		43.2%	1,332	1,332	0	0.0%	
44.4%	1,502	1,501	-2	-0.1%		44.4%	3,108	2,145	-963	-31.0%		44.4%	1,480	1,478	-3	-0.2%		44.4%	1,331	1,352	21	1.6%	
45.7%	1,501	1,500	-1	-0.1%		45.7%	3,089	2,032	-1,058	-34.2%		45.7%	1,480	1,447	-33	-2.2%		45.7%	1,329	1,341	12	0.9%	
46.9%	1,500	1,500	0	0.0%		46.9%	3,002	1,989	-1,013	-33.7%		46.9%	1,479	1,416	-63	-4.3%		46.9%	1,329	1,332	3	0.2%	
48.1%	1,500	1,497	-3	-0.2%		48.1%	2,920	1,964	-956	-32.7%		48.1%	1,478	1,405	-73	-4.9%		48.1%	1,328	1,332	4	0.3%	
49.4%	1,500	1,497	-3	-0.2%		49.4%	2,802	1,916	-886	-31.6%		49.4%	1,478	1,359	-119	-8.1%		49.4%	1,313	1,330	17	1.3%	
50.6%	1,499	1,493	-6	-0.4%		50.6%	2,754	1,881	-874	-31.7%		50.6%	1,478	1,358	-119	-8.1%		50.6%	1,311	1,328	18	1.4%	
51.9%	1,497	1,482	-15	-1.0%		51.9%	2,739	1,869	-871	-31.8%		51.9%	1,443	1,354	-89	-6.2%		51.9%	1,309	1,313	4	0.3%	
53.1%	1,493	1,481	-12	-0.8%		53.1%	2,708	1,767	-941	-34.7%		53.1%	1,437	1,341	-96	-6.7%		53.1%	1,292	1,303	11	0.9%	
54.3%	1,482	1,460	-22	-1.5%		54.3%	2,575	1,750	-825	-32.1%		54.3%	1,435	1,326	-109	-7.6%		54.3%	1,280	1,295	15	1.2%	
55.6%	1,481	1,352	-129	-8.7%		55.6%	2,557	1,750	-807	-31.6%		55.6%	1,272	1,320	48	3.8%		55.6%	1,170	1,276	106	9.1%	
56.8%	1,480	1,336	-144	-9.5%		56.8%	2,547	1,750	-797	-31.3%		56.8%	1,247	1,299	51	4.1%		56.8%	1,093	1,260	167	15.3%	
58.0%	1,411	1,327	-84	-6.0%		58.0%	2,477	1,750	-727	-29.4%		58.0%	1,192	1,288	96	8.1%		58.0%	1,085	1,213	128	11.8%	
59.3%	1,347	1,325	-22	-1.6%		59.3%	2,249	1,750	-499	-22.2%		59.3%	1,189	1,275	86	7.2%		59.3%	1,030	1,212	182	17.7%	
60.5%	1,336	1,325	-11	-0.8%		60.5%	2,216	1,750	-466	-21.0%		60.5%	1,131	1,272	140	12.4%		60.5%	1,020	1,204	184	18.0%	
61.7%	1,314	1,324	9	0.7%		61.7%	2,202	1,750	-452	-20.5%		61.7%	1,033	1,260	227	22.0%		61.7%	1,011	1,203	191	18.9%	
63.0%	1,279	1,321	41	3.2%		63.0%	2,182	1,750	-432	-19.8%		63.0%	998	1,185	187	18.7%		63.0%	992	1,202	210	21.2%	
64.2%	1,268	1,296	28	2.2%		64.2%	2,162	1,750	-412	-19.1%		64.2%	979	1,131	152	15.5%		64.2%	978	1,116	138	14.1%	
65.4%	1,180	1,296	116	9.8%		65.4%	2,049	1,750	-299	-14.6%		65.4%	918	1,103	185	20.3%		65.4%	918	1,097	179	19.5%	
66.7%	1,167	1,292	125	10.7%		66.7%	1,953	1,750	-203	-10.4%		66.7%	958	1,077	119	12.4%		66.7%	874	1,084	210	24.1%	
67.9%	1,116	1,284	168	15.0%		67.9%	1,952	1,750	-202	-10.3%		67.9%	939	1,074	135	14.4%		67.9%	866	1,075	208	24.1%	
69.1%	1,111	1,282	171	15.4%		69.1%	1,938	1,750	-188	-9.7%		69.1%	922	1,067	145	15.8%		69.1%	840	1,034	194	23.1%	
70.4%	999	1,281	283	28.3%		70.4%	1,928	1,750	-178	-9.2%		70.4%	915	1,066	151	16.5%		70.4%	821	1,011	190	23.1%	
71.5%	970	1,279	309	31.8%		71.5%	1,812	1,750	-62	-3.4%		71.5%	802	1,019	217	27.1%		71.5%	807	1,003	196	24.5%	
72.8%	967	1,278	311	32.2%		72.8%	1,750	1,750	0	0.0%		72.8%	874	1,000	125	14.3%		72.8%	746	990	244	32.7%	
74.1%	934	1,271	337	36.0%		74.1%	1,750	1,750	0	0.0%		74.1%	838	940	102	12.1%		74.1%	689	976	287	41.6%	
75.3%	932																						

Figure SW-46-b  
Feather River at Shanghai Bend, Monthly Flow  
Probability of Exceedance

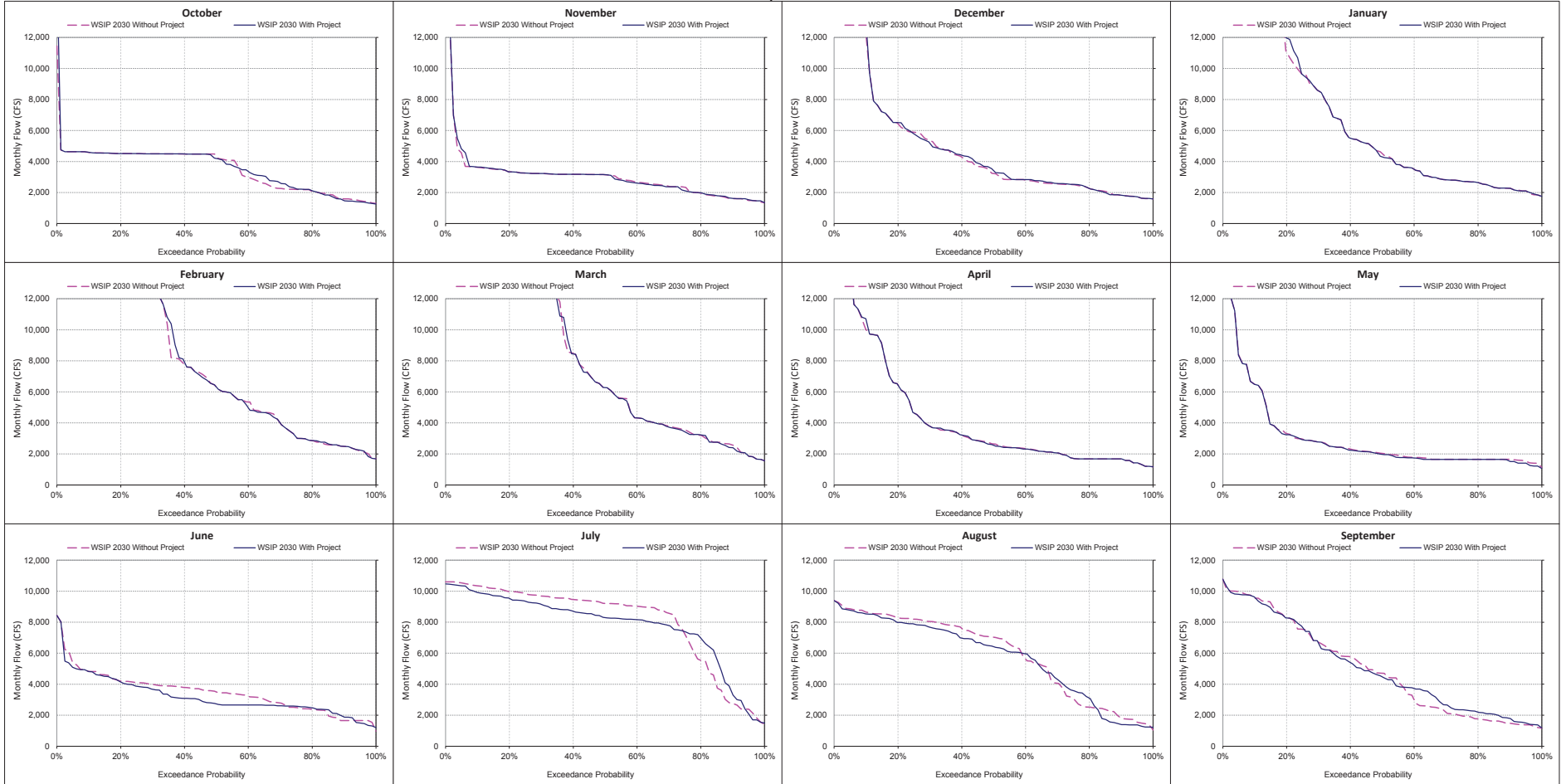








Figure SW-47-b  
American River at Mouth, Monthly Flow  
Probability of Exceedance

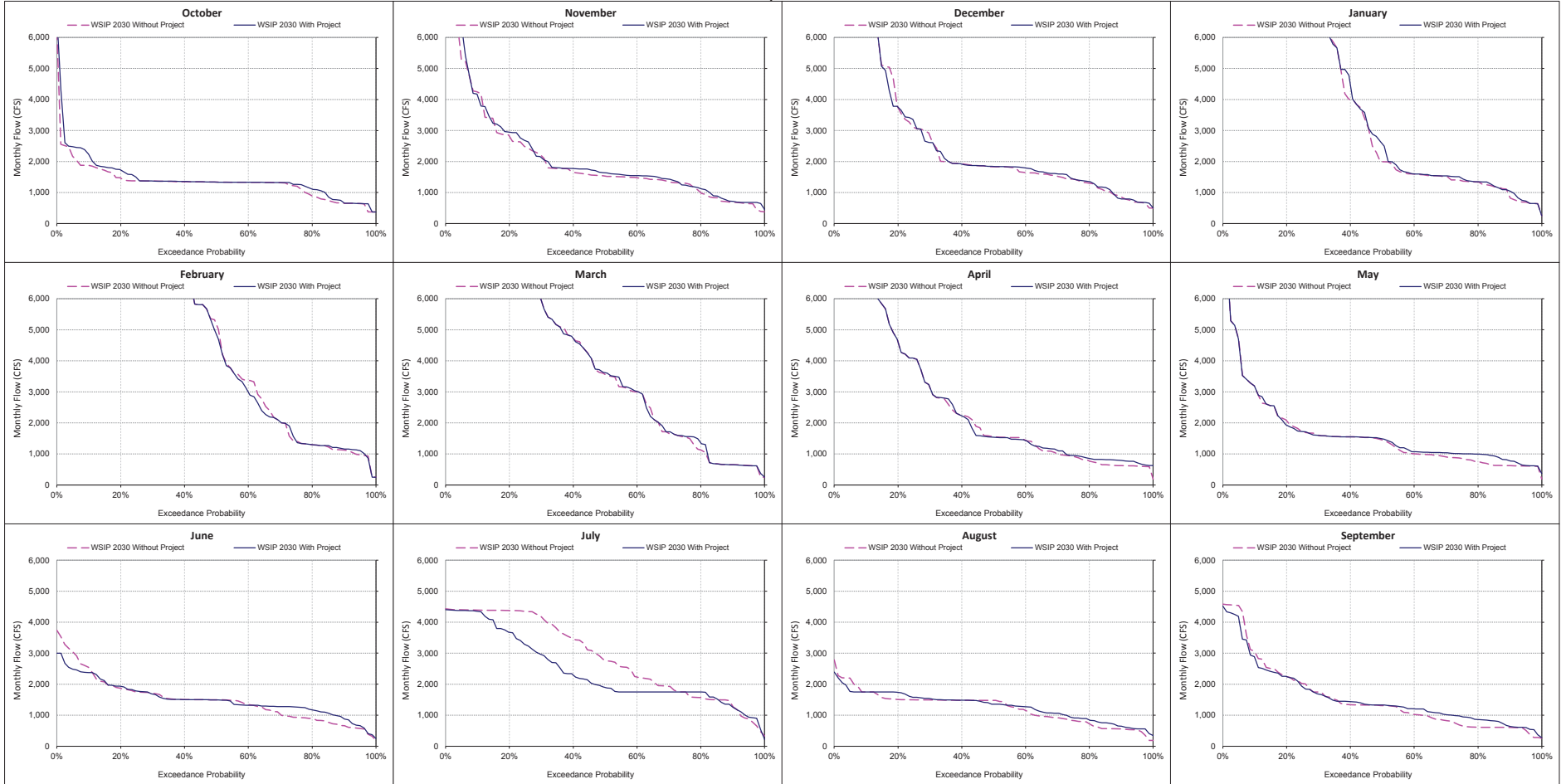






Table SW-47-b  
American River at Mouth, Monthly Flow  
Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	37,257	37,258	0	0.0%	
1.2%	25,474	25,474	0	0.0%	
2.5%	25,290	25,293	-7	0.0%	
3.7%	18,898	18,898	0	0.0%	
4.9%	18,230	18,230	0	0.0%	
6.2%	18,080	18,080	0	0.0%	
7.4%	17,837	17,836	-2	0.0%	
8.6%	17,680	17,834	174	1.0%	
9.9%	17,052	17,052	0	0.0%	
11.1%	16,564	16,561	-3	0.0%	
12.3%	16,421	16,422	0	0.0%	
13.6%	15,765	15,765	0	0.0%	
14.8%	15,162	15,159	-2	0.0%	
16.0%	15,140	14,883	-257	-1.7%	
17.3%	13,954	13,954	0	0.0%	
18.5%	13,952	13,953	1	0.0%	
19.8%	13,921	13,921	0	0.0%	
21.0%	12,923	12,759	-164	-1.3%	
22.2%	12,762	12,392	-370	-2.9%	
23.5%	11,892	11,893	2	0.0%	
24.7%	11,399	11,468	69	0.6%	
25.9%	10,922	10,922	0	0.0%	
27.2%	10,602	10,602	0	0.0%	
28.4%	10,486	10,488	2	0.0%	
29.6%	9,550	9,550	0	0.0%	
30.9%	8,501	8,489	-12	-0.1%	
32.1%	8,057	8,057	0	0.0%	
33.3%	7,065	7,067	3	0.0%	
34.6%	6,978	6,978	0	0.0%	
35.8%	6,919	6,921	2	0.0%	
37.0%	6,759	6,759	0	0.0%	
38.3%	6,737	6,737	0	0.0%	
39.5%	6,705	6,720	14	0.2%	
40.7%	6,548	6,643	96	1.5%	
42.0%	6,472	6,472	0	0.0%	
43.2%	5,826	5,827	1	0.0%	
44.4%	5,814	5,812	-2	0.0%	
45.7%	5,812	5,811	-1	0.0%	
46.9%	5,674	5,671	-2	0.0%	
48.1%	5,360	5,353	-8	-0.1%	
49.4%	5,323	5,008	-315	-5.9%	
50.6%	5,008	4,700	-308	-6.1%	
51.9%	4,211	4,211	0	0.0%	
53.1%	3,924	3,847	-78	-2.0%	
54.3%	3,772	3,771	-1	0.0%	
55.6%	3,597	3,597	0	0.0%	
56.8%	3,561	3,412	-149	-4.2%	
58.0%	3,412	3,328	-83	-2.4%	
59.3%	3,365	3,123	-242	-7.2%	
60.5%	3,365	2,891	-474	-14.1%	
61.7%	3,326	2,841	-485	-14.6%	
63.0%	2,918	2,643	-276	-9.5%	
64.2%	2,771	2,401	-370	-13.4%	
65.4%	2,529	2,273	-256	-10.1%	
66.7%	2,401	2,195	-205	-8.6%	
67.9%	2,187	2,178	-10	-0.4%	
69.1%	2,102	2,102	0	0.0%	
70.4%	2,000	2,000	0	0.0%	
71.6%	1,989	1,990	1	0.0%	
72.8%	1,570	1,899	328	20.9%	
74.1%	1,423	1,570	147	10.3%	
75.3%	1,407	1,364	-43	-3.0%	
76.5%	1,338	1,338	0	0.0%	
77.8%	1,325	1,325	0	0.0%	
79.0%	1,314	1,314	0	0.0%	
80.2%	1,293	1,291	-2	0.0%	
81.5%	1,282	1,282	0	0.0%	
82.7%	1,269	1,271	2	0.1%	
84.0%	1,266	1,269	3	0.3%	
85.2%	1,220	1,268	46	3.8%	
86.4%	1,138	1,209	71	6.2%	
87.7%	1,138	1,204	66	5.8%	
88.9%	1,134	1,179	45	3.9%	
90.1%	1,124	1,159	35	3.1%	
91.4%	1,103	1,157	54	4.9%	
92.6%	1,044	1,136	92	8.8%	
93.8%	986	1,134	148	15.0%	
95.1%	969	1,103	135	13.9%	
96.3%	952	1,008	57	5.9%	
97.5%	931	954	23	2.5%	
98.8%	250	250	0	0.0%	
100.0%	250	250	0	0.0%	

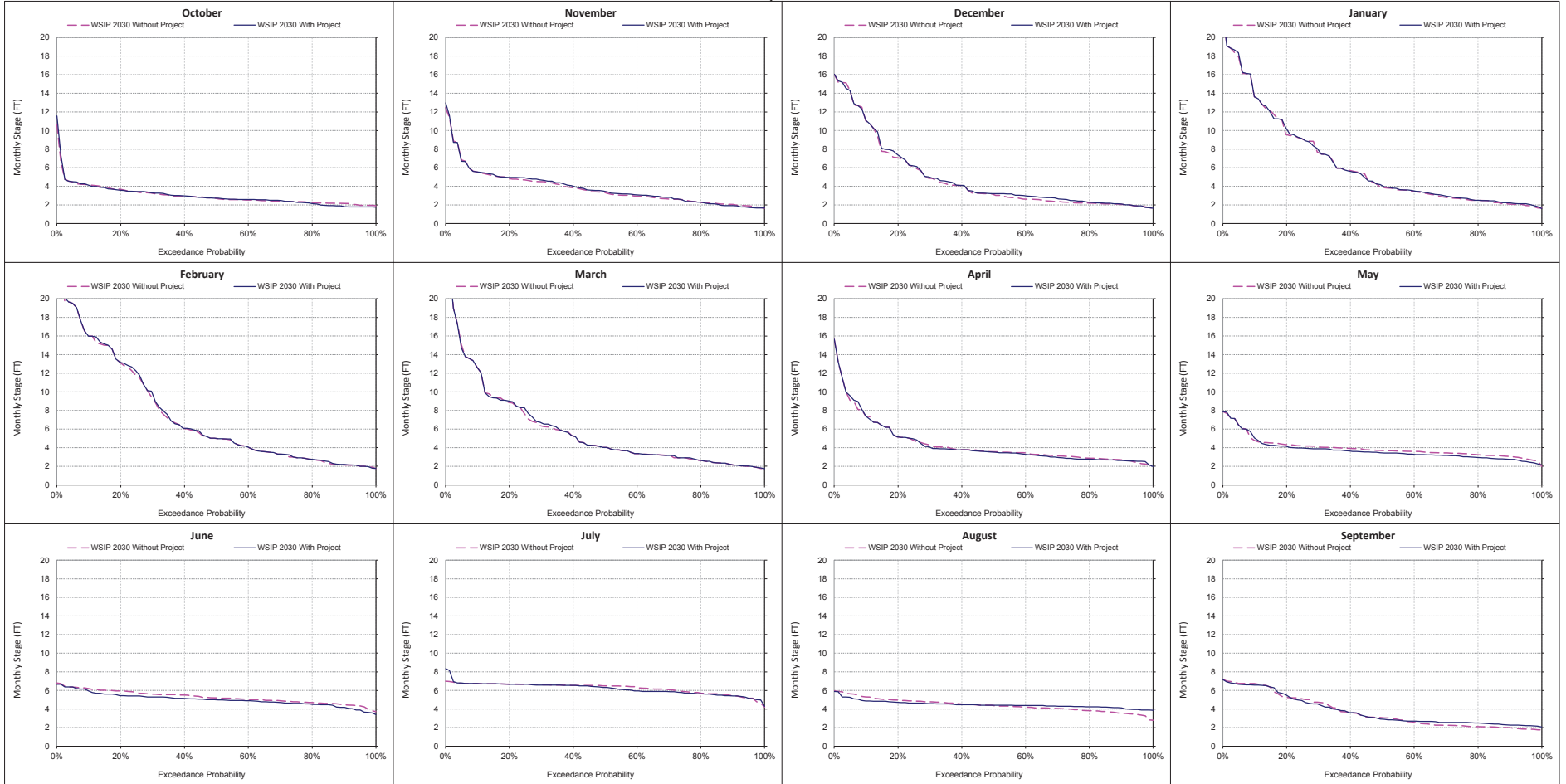
March					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	20,837	20,837	0	0.0%	
1.2%	19,949	19,949	0	0.0%	
2.5%	18,636	18,636	0	0.0%	
3.7%	16,398	16,398	0	0.0%	
4.9%	13,992	13,992	0	0.0%	
6.2%	12,675	12,674	-2	0.0%	
7.4%	12,540	12,541	1	0.0%	
8.6%	12,039	12,038	-1	0.0%	
9.9%	11,890	11,890	0	0.0%	
11.1%	10,924	10,910	-13	-0.1%	
12.3%	9,872	9,867	-5	0.0%	
13.6%	9,207	9,558	351	3.8%	
14.8%	9,029	9,203	174	1.9%	
16.0%	8,792	8,796	5	0.1%	
17.3%	8,611	8,611	0	0.0%	
18.5%	8,188	8,187	-1	0.0%	
19.8%	8,180	8,179	-1	0.0%	
21.0%	7,495	7,495	0	0.0%	
22.2%	7,465	7,465	1	0.0%	
23.5%	7,299	7,299	0	0.0%	
24.7%	7,258	7,261	3	0.0%	
25.9%	6,579	6,489	-91	-1.4%	
27.2%	6,484	6,432	-53	-0.8%	
28.4%	6,199	6,197	-2	0.0%	
29.6%	6,073	6,073	0	0.0%	
30.9%	5,678	5,673	-5	-0.1%	
32.1%	5,412	5,411	-1	0.0%	
33.3%	5,339	5,341	2	0.0%	
34.6%	5,174	5,172	-2	0.0%	
35.8%	5,094	5,094	0	0.0%	
37.0%	5,078	4,987	-211	-4.1%	
38.3%	4,832	4,832	0	0.0%	
39.5%	4,789	4,789	0	0.0%	
40.7%	4,644	4,617	-27	-0.6%	
42.0%	4,618	4,545	-73	-1.6%	
43.2%	4,406	4,406	0	0.0%	
44.4%	4,266	4,266	1	0.0%	
45.7%	4,082	4,082	0	0.0%	
46.9%	3,711	3,735	23	0.6%	
48.1%	3,629	3,711	82	2.3%	
49.4%	3,601	3,629	28	0.8%	
50.6%	3,510	3,603	94	2.6%	
51.9%	3,502	3,521	19	0.5%	
53.1%	3,478	3,502	24	0.7%	
54.3%	3,170	3,478	309	9.7%	
55.6%	3,156	3,169	13	0.4%	
56.8%	3,119	3,155	36	1.1%	
58.0%	3,037	3,109	72	2.4%	
59.3%	3,000	3,041	41	1.4%	
60.5%	3,000	3,000	0	0.0%	
61.7%	2,926	2,927	1	0.0%	
63.0%	2,606	2,478	-127	-4.9%	
64.2%	2,480	2,211	-269	-10.9%	
65.4%	2,095	2,095	0	0.0%	
66.7%	2,017	2,017	0	0.0%	
67.9%	1,715	1,905	190	11.1%	
69.1%	1,714	1,715	1	0.1%	
70.4%	1,636	1,714	79	4.8%	
71.6%	1,632	1,631	-1	0.0%	
72.8%	1,593	1,593	0	0.0%	
74.1%	1,556	1,591	35	2.2%	
75.3%	1,542	1,556	14	0.9%	
76.5%	1,492	1,556	64	4.3%	
77.8%	1,308	1,549	241	18.4%	
79.0%	1,155	1,493	337	29.2%	
80.2%	1,117	1,328	211	18.9%	
81.5%	1,043	1,303	260	25.0%	
82.7%	715	715	0	0.0%	
84.0%	686	686	0	0.0%	
85.2%	680	680	0	0.0%	
86.4%	663	683	20	3.0%	
87.7%	658	658	0	0.0%	
88.9%	652	654	2	0.3%	
90.1%	651	649	-2	-0.2%	
91.4%	641	641	0	0.0%	
92.6%	640	633	-7	-1.1%	
93.8%	633	627	-6	-0.9%	
95.1%	627	615	-12	-2.0%	
96.3%	615	614	-1	0.0%	
97.5%	614	613	-1	0.0%	
98.8%	250	250	0	0.0%	
100.0%	250	250	0	0.0%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	18,987	18,987	0	0.0%	
1.2%	16,641	16,642	1	0.0%	
2.5%	11,559	11,559	-3	0.0%	
3.7%	10,120	10,121	1	0.0%	
4.9%	9,054	9,055	1	0.0%	
6.2%	7,738	7,739	1	0.0%	
7.4%	7,489	7,490	1	0.0%	
8.6%	6,732	6,732	0	0.0%	
9.9%	6,431	6,431	0	0.0%	
11.1%	6,325	6,325	0	0.0%	
12.3%	6,041	6,040	-1	0.0%	
13.6%	6,017	6,017	0	0.0%	
14.8%	5,847	5,847	0	0.0%	
16.0%	5,676	5,676	0	0.0%	
17.3%	5,187	5,183	-4	-0.1%	
18.5%	4,912	4,912	0	0.0%	
19.8%	4,705	4,702	-3	-0.1%	
21.0%	4,272	4,272	0	0.0%	
22.2%	4,217	4,217	2	0.0%	
23.5%	4,089	4,089	-11	-0.3%	
24.7%	4,088	4,088	0	0.0%	
25.9%	4,049	4,049	0	0.0%	
27.2%	3,724	3,724	0	0.0%	
28.4%	3,318	3,316	-3	-0.1%	
29.6%	3,240	3,240	0	0.0%	
30.9%	2,912	2,911	-1	0.0%	
32.1%	2,812	2,829	16	0.6%	
33.3%	2,796	2,812	16	0.6%	
34.6%	2,771	2,796	25	0.9%	
35.8%	2,585	2,771	176	6.8%	
37.0%	2,421	2,593	174	7.1%	
38.3%	2,310	2,310	0	0.0%	
39.5%	2,250	2,250	0	0.0%	
40.7%	2,239	2,196	-43	-1.9%	
42.0%	2,196	2,106	-90	-4.1%	
43.2%	2,103	1,824	-279	-13.2%	
44.4%	1,889	1,590	-299	-15.8%	
45.7%	1,843	1,586	-257	-13.9%	
46.9%	1,590	1,564	-26	-1.6%	
48.1%	1,586	1,549	-37	-2.3%	
49.4%	1,564	1,541	-23	-1.5%	
50.6%	1,547	1,535	-12	-0.8%	
51.9%	1,540	1,527	-14	-0.9%	
53.1%	1,535	1,526	-9	-0.6%	
54.3%	1,529	1,525	-3	-0.2%	
55.6%	1,527	1,474	-53	-3.5%	
56.8%	1,526	1,473	-53	-3.5%	
58.0%	1,525	1,462	-64	-4.2%	
59.3%	1,473	1,457	-16	-1.1%	
60.5%	1,414	1,414	-1	0.0%	
61.7%	1,406	1,306	-100	-7.1%	
63.0%	1,286	1,252	-33	-2.6%	
64.2%	1,168	1,242	74	6.3%	
65.4%	1,094	1,191	97	8.9%	
66.7%	1,092	1,180	88	8.1%	
67.9%	1,088	1,168	79	7.3%	
69.1%	1,045	1,158	113	10.8%	
70.4%	975	1,096	122	12.5%	
71.6%	965	1,092	126	13.0%	
72.8%	949	975	26	2.8%	
74.1%	935	954	19	2.0%	
75.3%	913	949	36	4.0%	
76.5					

**Table SW-47-b**  
American River at Mouth, Monthly Flow Probability of Exceedance

June						July						August						September					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Flow (CFS)	WSIP 2030 With Project Monthly Flow (CFS)	Absolute Difference (CFS)	Relative Difference (%)	
0.0%	3,738	3,000	-738	-19.7%		0.0%	4,432	4,403	-29	-0.7%		0.0%	2,786	2,392	-393	-14.1%		0.0%	4,582	4,521	-62	-1.3%	
1.2%	3,535	3,000	-535	-15.1%		1.2%	4,415	4,400	-16	-0.4%		1.2%	2,277	2,201	-77	-3.4%		1.2%	4,566	4,336	-230	-5.0%	
2.5%	3,284	2,678	-606	-18.5%		2.5%	4,403	4,388	-15	-0.3%		2.5%	2,206	2,048	-158	-7.2%		2.5%	4,550	4,301	-249	-5.5%	
3.7%	3,159	2,546	-612	-19.4%		3.7%	4,403	4,375	-28	-0.6%		3.7%	2,202	1,970	-232	-10.6%		3.7%	4,545	4,252	-293	-6.4%	
4.9%	3,048	2,482	-566	-18.6%		4.9%	4,399	4,374	-25	-0.6%		4.9%	2,199	1,766	-432	-19.7%		4.9%	4,539	4,194	-345	-7.6%	
6.2%	2,917	2,458	-459	-15.7%		6.2%	4,398	4,374	-24	-0.5%		6.2%	2,002	1,750	-252	-12.6%		6.2%	4,535	3,451	-884	-20.4%	
7.4%	2,861	2,403	-458	-15.9%		7.4%	4,395	4,371	-24	-0.6%		7.4%	1,931	1,750	-181	-9.4%		7.4%	4,529	3,424	-1,105	-24.4%	
8.6%	2,808	2,381	-427	-15.2%		8.6%	4,393	4,367	-26	-0.6%		8.6%	1,750	1,750	0	0.0%		8.6%	4,525	2,837	-1,688	-37.3%	
9.9%	2,546	2,373	-174	-6.8%		9.9%	4,391	4,351	-40	-0.9%		9.9%	1,750	1,750	0	0.0%		9.9%	4,520	2,885	-1,635	-36.2%	
11.1%	2,371	2,371	0	0.0%		11.1%	4,388	4,337	-52	-1.2%		11.1%	1,750	1,750	0	0.0%		11.1%	4,515	2,538	-1,977	-43.8%	
12.3%	2,169	2,311	143	6.6%		12.3%	4,387	4,192	-195	-4.4%		12.3%	1,750	1,750	0	0.0%		12.3%	4,511	2,511	-2,000	-44.3%	
13.6%	2,098	2,169	70	3.3%		13.6%	4,385	4,094	-291	-6.6%		13.6%	1,672	1,750	78	4.7%		13.6%	4,507	2,459	-2,048	-45.4%	
14.8%	2,077	2,118	42	2.0%		14.8%	4,385	4,075	-310	-7.1%		14.8%	1,573	1,749	177	11.2%		14.8%	4,503	2,418	-2,085	-46.3%	
16.0%	1,970	1,970	0	0.0%		16.0%	4,385	3,794	-591	-13.5%		16.0%	1,542	1,749	207	13.4%		16.0%	4,500	2,380	-2,120	-47.1%	
17.3%	1,967	1,967	1	0.0%		17.3%	4,383	3,792	-591	-13.5%		17.3%	1,528	1,747	219	14.3%		17.3%	4,497	2,362	-2,135	-47.5%	
18.5%	1,898	1,942	44	2.3%		18.5%	4,381	3,755	-626	-14.3%		18.5%	1,527	1,746	219	14.3%		18.5%	4,495	2,257	-2,238	-49.8%	
19.8%	1,873	1,941	68	3.7%		19.8%	4,378	3,679	-699	-16.0%		19.8%	1,506	1,741	235	15.6%		19.8%	4,492	2,256	-2,236	-49.8%	
21.0%	1,836	1,914	78	4.3%		21.0%	4,378	3,656	-722	-16.5%		21.0%	1,503	1,724	221	14.7%		21.0%	4,489	2,213	-2,276	-50.7%	
22.2%	1,823	1,836	12	0.7%		22.2%	4,375	3,468	-907	-20.7%		22.2%	1,500	1,681	180	12.0%		22.2%	4,486	2,193	-2,293	-51.1%	
23.5%	1,794	1,823	29	1.6%		23.5%	4,367	3,407	-960	-22.0%		23.5%	1,486	1,610	122	7.5%		23.5%	4,483	2,100	-2,383	-53.1%	
24.7%	1,753	1,785	31	1.8%		24.7%	4,351	3,293	-1,058	-24.3%		24.7%	1,497	1,580	83	5.6%		24.7%	4,480	1,939	-2,541	-56.7%	
25.9%	1,744	1,770	26	1.5%		25.9%	4,340	3,232	-1,108	-25.5%		25.9%	1,496	1,575	78	5.2%		25.9%	4,478	1,840	-2,638	-58.9%	
27.2%	1,738	1,755	16	0.9%		27.2%	4,339	3,124	-1,214	-28.0%		27.2%	1,496	1,563	67	4.5%		27.2%	4,475	1,838	-2,637	-58.9%	
28.4%	1,737	1,752	15	0.9%		28.4%	4,263	3,035	-1,228	-28.8%		28.4%	1,496	1,546	50	3.4%		28.4%	4,472	1,750	-2,722	-60.9%	
29.6%	1,724	1,694	-30	-1.7%		29.6%	4,217	2,976	-1,241	-29.4%		29.6%	1,495	1,542	47	3.1%		29.6%	4,469	1,750	-2,719	-61.0%	
30.9%	1,694	1,668	-26	-1.5%		30.9%	4,082	2,921	-1,161	-28.4%		30.9%	1,491	1,521	30	2.0%		30.9%	4,467	1,663	-2,804	-62.8%	
32.1%	1,669	1,590	-79	-4.8%		32.1%	4,060	2,792	-1,268	-31.2%		32.1%	1,490	1,500	9	0.6%		32.1%	4,465	1,609	-2,856	-64.0%	
33.3%	1,583	1,542	-41	-2.6%		33.3%	3,931	2,700	-1,230	-31.3%		33.3%	1,489	1,498	9	0.6%		33.3%	4,463	1,549	-2,914	-65.3%	
34.6%	1,542	1,520	-22	-1.4%		34.6%	3,821	2,691	-1,130	-29.6%		34.6%	1,487	1,490	3	0.2%		34.6%	4,461	1,483	-2,978	-66.7%	
35.8%	1,524	1,514	-10	-0.7%		35.8%	3,680	2,527	-1,153	-31.3%		35.8%	1,486	1,489	3	0.2%		35.8%	4,459	1,446	-3,013	-67.5%	
37.0%	1,514	1,511	-3	-0.2%		37.0%	3,617	2,356	-1,262	-34.9%		37.0%	1,485	1,489	4	0.3%		37.0%	4,457	1,380	-3,077	-68.9%	
38.3%	1,511	1,508	-3	-0.2%		38.3%	3,547	2,345	-1,202	-33.9%		38.3%	1,484	1,484	0	0.0%		38.3%	4,455	1,446	-3,009	-67.5%	
39.5%	1,508	1,505	-2	-0.2%		39.5%	3,490	2,338	-1,152	-33.0%		39.5%	1,483	1,484	1	0.0%		39.5%	4,453	1,445	-2,988	-67.3%	
40.7%	1,505	1,505	0	0.0%		40.7%	3,430	2,233	-1,197	-34.9%		40.7%	1,483	1,483	0	0.0%		40.7%	4,451	1,436	-3,015	-67.7%	
42.0%	1,505	1,502	-3	-0.2%		42.0%	3,419	2,183	-1,236	-36.2%		42.0%	1,483	1,482	-1	-0.1%		42.0%	4,449	1,427	-3,022	-67.9%	
43.2%	1,502	1,502	0	0.0%		43.2%	3,322	2,171	-1,151	-34.6%		43.2%	1,482	1,480	-2	-0.2%		43.2%	4,447	1,399	-3,048	-68.5%	
44.4%	1,502	1,501	-2	-0.1%		44.4%	3,108	2,145	-963	-31.0%		44.4%	1,481	1,478	-3	-0.2%		44.4%	4,445	1,352	-3,093	-69.6%	
45.7%	1,501	1,500	-1	-0.1%		45.7%	3,089	2,032	-1,058	-34.2%		45.7%	1,480	1,447	-33	-2.2%		45.7%	4,443	1,341	-3,102	-70.0%	
46.9%	1,500	1,500	-1	0.0%		46.9%	3,002	1,989	-1,013	-33.7%		46.9%	1,479	1,416	-63	-4.3%		46.9%	4,441	1,332	-3,109	-70.3%	
48.1%	1,500	1,497	-2	-0.2%		48.1%	2,920	1,964	-956	-32.7%		48.1%	1,478	1,405	-73	-4.9%		48.1%	4,439	1,332	-3,107	-70.3%	
49.4%	1,500	1,497	-2	-0.2%		49.4%	2,802	1,916	-886	-31.6%		49.4%	1,478	1,359	-119	-8.1%		49.4%	4,437	1,330	-3,107	-70.3%	
50.6%	1,499	1,493	-6	-0.4%		50.6%	2,754	1,881	-874	-31.7%		50.6%	1,478	1,358	-119	-8.1%		50.6%	4,435	1,311	-3,124	-70.6%	
51.9%	1,497	1,482	-15	-1.0%		51.9%	2,739	1,869	-871	-31.8%		51.9%	1,443	1,354	-89	-6.2%		51.9%	4,433	1,313	-3,120	-70.6%	
53.1%	1,493	1,481	-12	-0.8%		53.1%	2,708	1,767	-941	-34.7%		53.1%	1,437	1,341	-96	-6.7%		53.1%	4,431	1,303	-3,128	-70.8%	
54.3%	1,482	1,460	-22	-1.5%		54.3%	2,575	1,750	-825	-32.1%		54.3%	1,436	1,326	-110	-7.6%		54.3%	4,429	1,295	-3,134	-71.0%	
55.6%	1,481	1,352	-129	-8.7%		55.6%	2,557	1,750	-807	-31.6%		55.6%	1,272	1,320	48	3.8%		55.6%	4,427	1,276	-3,151	-71.4%	
56.8%	1,460	1,336	-124	-8.5%		56.8%	2,547	1,750	-797	-31.3%		56.8%	1,247	1,299	51	4.1%		56.8%	4,425	1,280	-3,145	-71.4%	
58.0%	1,411	1,327	-84	-6.0%		58.0%	2,477	1,750	-727	-29.4%		58.0%	1,192	1,288	96	8.1%		58.0%	4,423	1,213	-3,210	-72.6%	
59.3%	1,347	1,325	-22	-1.6%		59.3%	2,249	1,750	-499	-22.2%		59.3%	1,189	1,275	86	7.2%		59.3%	4,421	1,212	-3,209	-72.6%	
60.5%	1,336	1,325	-11	-0.8%		60.5%	2,216	1,750	-466	-21.0%		60.5%	1,131	1,272	140	12.4%		60.5%	4,419	1,204	-3,215	-72.8%	
61.7%	1,314	1,324	9	0.7%		61.7%	2,202	1,750	-452	-20.5%		61.7%	1,033	1,260	227	22.0%		61.7%	4,417	1,203	-3,214	-72.8%	
63.0%	1,279	1,321	41	3.2%		63.0%	2,182	1,750	-432	-19.8%		63.0%	998	1,185	187	18.7%		63.0%	4,415	1,202	-3,213	-72.8%	
64.2%	1,268	1,296	28	2.2%		64.2%	2,162	1,750	-412	-19.1%		64.2%	979	1,131	152	15.5%		64.2%	4,413	1,116	-3,297	-74.7%	
65.4%	1,180	1,296	116	9.8%		65.4%	2,049	1,750	-299	-14.6%		65.4%	918	1,103	185	20.3%		65.4%	4,411	1,097	-3,314	-75.1%	
66.7%	1,167	1,292	125	10.7%		66.7%	1,953	1,750	-203	-10.4%		66.7%	958	1,077	119	12.4%		66.7%	4,409	1,084	-3,325	-75.2%	
67.9%	1,116	1,284	168	15.0%		67.9%	1,952	1,750	-202	-10.3%		67.9%	939	1,074	135	14.4%		67.9%	4,407	1,075	-3,332	-75.3%	
69.1%	1,111	1,282	171	15.4%		69.1%	1,938	1,750	-188	-9.7%		69.1%	922	1,067	145	15.8%		69.1%	4,405	1,034	-3,371	-76.1%	
70.4%	999	1,281	283	28.3%		70.4%	1,928	1,750	-178	-9.2%		70.4%	915	1,066	151	16.5%		70.4%	4,403	1,011	-3,392	-76.6%	
71.6%	970	1,279	309	31.8%		71.6%	1,912	1,750	-162	-8.5%		71.6%	892	1,019	127	14.3%		71.6%	4,401	1,003	-3,398	-76.8%	
72.8%	967	1,278	311	32.2%		72.8%	1,750	1,750	0	0.0%		72.8%	874	1,000	125	14.3%		72.8%	4,400	990	-3,410	-77.0%	
74.																							

**Figure SW-53-b**  
**Sacramento River at Bend Bridge, Monthly Stage**  
**Probability of Exceedance**



**Table SW-53-b**  
 Sacramento River at Bend Bridge, Monthly Stage  
 Probability of Exceedance

October					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	11	12	1	8.4%	
1.2%	7	7	0	9.0%	
2.5%	5	5	0	-0.8%	
3.7%	5	5	0	-0.1%	
4.9%	4	5	0	1.0%	
6.2%	4	4	0	4.3%	
7.4%	4	4	0	1.4%	
8.6%	4	4	0	1.4%	
9.9%	4	4	0	-1.3%	
11.1%	4	4	0	-3.5%	
12.3%	4	4	0	-2.5%	
13.6%	4	4	0	-3.2%	
14.8%	4	4	0	-2.5%	
16.0%	4	4	0	-4.2%	
17.3%	4	4	0	-0.9%	
18.5%	4	4	0	-1.5%	
19.8%	4	4	0	-2.6%	
21.0%	4	4	0	-1.1%	
22.2%	3	3	0	-0.7%	
23.5%	3	3	0	0.9%	
24.7%	3	3	0	0.6%	
25.9%	3	3	0	3.6%	
27.2%	3	3	0	3.7%	
28.4%	3	3	0	2.1%	
29.6%	3	3	0	4.0%	
30.9%	3	3	0	2.2%	
32.1%	3	3	0	3.3%	
33.3%	3	3	0	4.7%	
34.6%	3	3	0	1.5%	
35.8%	3	3	0	2.8%	
37.0%	3	3	0	2.9%	
38.3%	3	3	0	3.3%	
39.5%	3	3	0	2.8%	
40.7%	3	3	0	2.1%	
42.0%	3	3	0	1.5%	
43.2%	3	3	0	-1.4%	
44.4%	3	3	0	-0.9%	
45.7%	3	3	0	-1.5%	
46.9%	3	3	0	-0.8%	
48.1%	3	3	0	-0.7%	
49.4%	3	3	0	-0.6%	
50.6%	3	3	0	1.4%	
51.9%	3	3	0	2.6%	
53.1%	3	3	0	1.7%	
54.3%	3	3	0	1.8%	
55.6%	3	3	0	1.2%	
56.8%	3	3	0	1.1%	
58.0%	3	3	0	1.4%	
59.3%	3	3	0	2.5%	
60.5%	3	3	0	1.9%	
61.7%	3	3	0	2.2%	
63.0%	3	3	0	2.5%	
64.2%	3	3	0	4.2%	
65.4%	2	3	0	4.1%	
66.7%	2	3	0	3.0%	
67.9%	2	3	0	3.4%	
69.1%	2	3	0	4.7%	
70.4%	2	2	0	4.0%	
71.6%	2	2	0	-1.7%	
72.8%	2	2	0	0.9%	
74.1%	2	2	0	0.5%	
75.3%	2	2	0	-3.1%	
76.5%	2	2	0	-3.1%	
77.8%	2	2	0	-4.1%	
79.0%	2	2	0	-2.3%	
80.2%	2	2	0	-5.3%	
81.5%	2	2	0	-4.7%	
82.7%	2	2	0	-10.4%	
84.0%	2	2	0	-11.5%	
85.2%	2	2	0	-11.3%	
86.4%	2	2	0	-12.1%	
87.7%	2	2	0	-12.3%	
88.9%	2	2	0	-12.6%	
90.1%	2	2	0	-16.0%	
91.4%	2	2	0	-15.4%	
92.6%	2	2	0	-12.9%	
93.8%	2	2	0	-11.5%	
95.1%	2	2	0	-9.2%	
96.3%	2	2	0	-9.3%	
97.5%	2	2	0	-9.3%	
98.8%	2	2	0	-4.4%	
100.0%	2	2	0	-7.8%	

November					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	12	13	1	4.1%	
1.2%	11	12	0	2.0%	
2.5%	9	9	0	-1.4%	
3.7%	9	9	0	0.0%	
4.9%	7	7	0	-2.0%	
6.2%	7	7	0	-0.5%	
7.4%	6	6	0	0.0%	
8.6%	6	6	0	-0.7%	
9.9%	6	6	0	4.1%	
11.1%	5	5	0	0.9%	
12.3%	5	5	0	1.8%	
13.6%	5	5	0	1.8%	
14.8%	5	5	0	2.7%	
16.0%	5	5	0	0.8%	
17.3%	5	5	0	0.0%	
18.5%	5	5	0	-0.9%	
19.8%	5	5	0	2.7%	
21.0%	5	5	0	4.0%	
22.2%	5	5	0	3.9%	
23.5%	5	5	0	5.0%	
24.7%	5	5	0	4.8%	
25.9%	5	5	0	4.3%	
27.2%	5	5	0	4.9%	
28.4%	5	5	0	5.8%	
29.6%	5	5	0	4.1%	
30.9%	5	5	0	2.9%	
32.1%	5	5	0	3.3%	
33.3%	4	5	0	4.2%	
34.6%	4	4	0	3.1%	
35.8%	4	4	0	4.5%	
37.0%	4	4	0	7.6%	
38.3%	4	4	0	5.2%	
39.5%	4	4	0	5.7%	
40.7%	4	4	0	2.9%	
42.0%	4	4	0	2.6%	
43.2%	4	4	0	3.8%	
44.4%	4	4	0	0.7%	
45.7%	3	4	0	4.6%	
46.9%	3	4	0	4.2%	
48.1%	3	4	0	4.8%	
49.4%	3	3	0	3.3%	
50.6%	3	3	0	4.8%	
51.9%	3	3	0	3.3%	
53.1%	3	3	0	5.0%	
54.3%	3	3	0	4.9%	
55.6%	3	3	0	4.7%	
56.8%	3	3	0	4.5%	
58.0%	3	3	0	4.1%	
59.3%	3	3	0	4.7%	
60.5%	3	3	0	4.6%	
61.7%	3	3	0	5.3%	
63.0%	3	3	0	4.6%	
64.2%	3	3	0	5.3%	
65.4%	3	3	0	5.6%	
66.7%	3	3	0	7.1%	
67.9%	3	3	0	6.4%	
69.1%	3	3	0	5.7%	
70.4%	3	3	0	6.9%	
71.6%	3	3	0	1.5%	
72.8%	3	3	0	0.9%	
74.1%	3	3	0	-1.1%	
75.3%	2	2	0	-5.5%	
76.5%	2	2	0	-2.4%	
77.8%	2	2	0	-0.3%	
79.0%	2	2	0	-1.3%	
80.2%	2	2	0	1.7%	
81.5%	2	2	0	-2.7%	
82.7%	2	2	0	-4.9%	
84.0%	2	2	0	-4.8%	
85.2%	2	2	0	-3.7%	
86.4%	2	2	0	-5.9%	
87.7%	2	2	0	-7.6%	
88.9%	2	2	0	-6.9%	
90.1%	2	2	0	-6.7%	
91.4%	2	2	0	-4.3%	
92.6%	2	2	0	-8.7%	
93.8%	2	2	0	-7.8%	
95.1%	2	2	0	-8.0%	
96.3%	2	2	0	-8.0%	
97.5%	2	2	0	-5.0%	
98.8%	2	2	0	-4.4%	
100.0%	2	2	0	1.0%	

December					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	16	16	0	0.0%	
1.2%	15	15	0	1.0%	
2.5%	15	15	0	0.3%	
3.7%	15	15	-1	-3.8%	
4.9%	14	14	0	0.0%	
6.2%	13	13	0	1.2%	
7.4%	13	13	0	0.0%	
8.6%	13	12	0	-1.7%	
9.9%	11	11	0	0.3%	
11.1%	11	11	0	0.9%	
12.3%	10	10	0	0.0%	
13.6%	9	10	0	4.8%	
14.8%	8	8	0	4.4%	
16.0%	8	8	0	3.1%	
17.3%	8	8	0	5.3%	
18.5%	7	8	1	9.6%	
19.8%	7	7	0	4.9%	
21.0%	7	7	0	1.8%	
22.2%	7	7	0	0.0%	
23.5%	6	6	0	0.0%	
24.7%	6	6	0	0.9%	
25.9%	6	6	0	3.6%	
27.2%	6	6	0	0.0%	
28.4%	5	5	0	1.0%	
29.6%	5	5	0	2.9%	
30.9%	5	5	0	0.8%	
32.1%	5	5	0	6.0%	
33.3%	4	5	0	4.1%	
34.6%	4	5	0	6.2%	
35.8%	4	5	0	7.9%	
37.0%	4	4	0	7.0%	
38.3%	4	4	0	0.6%	
39.5%	4	4	0	0.3%	
40.7%	4	4	0	0.4%	
42.0%	4	4	0	0.0%	
43.2%	4	3	0	-2.6%	
44.4%	3	3	0	1.4%	
45.7%	3	3	0	0.9%	
46.9%	3	3	0	1.6%	
48.1%	3	3	0	1.3%	
49.4%	3	3	0	0.9%	
50.6%	3	3	0	6.1%	
51.9%	3	3	0	6.1%	
53.1%	3	3	0	9.1%	
54.3%	3	3	0	12.5%	
55.6%	3	3	0	13.6%	
56.8%	3	3	0	8.4%	
58.0%	3	3	0	11.6%	
59.3%	3	3	0	14.6%	
60.5%	3	3	0	13.1%	
61.7%	3	3	0	12.5%	
63.0%	3	3	0	11.4%	
64.2%	3	3	0	10.5%	
65.4%	2	3	0	12.6%	
66.7%	2	3	0	14.8%	
67.9%	2	3	0	15.0%	
69.1%	2	3	0	16.2%	
70.4%	2	3	0	11.8%	
71.6%	2	3	0	13.2%	
72.8%	2	3	0	12.3%	
74.1%	2	2	0	7.3%	
75.3%	2	2	0	10.6%	
76.5%	2	2	0	9.5%	
77.8%	2	2	0	9.3%	
79.0%	2	2	0	4.7%	
80.2%	2	2	0	3.6%	
81.5%	2	2	0	2.8%	
82.7%	2	2	0	2.3%	
84.0%	2	2	0	3.2%	
85.2%	2	2	0	2.8%	
86.4%	2	2	0	3.5%	
87.7%	2	2	0	1.5%	
88.9%	2	2	0	1.3%	
90.1%	2	2	0	2.3%	
91.4%	2	2	0	0.0%	
92.6%	2	2	0	0.0%	
93.8%	2	2	0	0.1%	
95.1%	2	2	0	1.1%	
96.3%	2	2	0	0.5%	
97.5%	2	2	0	-4.2%	
98.8%	2	2	0	-1.2%	
100.0%	2	2	0	0.1%	

January					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	23	23	0	0.0%	
1.2%	19	19	0	0.0%	
2.5%	19	19	0	0.0%	
3.7%	18	19	0	1.6%	
4.9%	18	18	0	2.5%	
6.2%	16	16	0	0.8%	
7.4%	16	16	0	0.1%	
8.6%	16	16	0	1.0%	
9.9%	14	14	0	0.0%	
11.1%	13	13	0	0.0%	
12.3%	13	13	0	0.0%	
13.6%	12	13	0	2.2%	
14.8%	12	12	0	-1.1%	
16.0%	12	11	0	-4.0%	
17.3%	11	11	0	0.0%	
18.5%	11	11	0	0.0%	
19.8%	10	10	1	7.7%	
21.0%	9	10	0	1.8%	
22.2%	9	9	0	0.2%	
23.5%	9	9	0	0.5%	
24.7%	9	9	0	0.1%	
25.9%	9	9	0	-0.4%	
27.2%	9	9	0	-0.9%	
28.4%	9	8	-1	-5.7%	
29.6%	8	8	0	4.0%	
30.9%	7	7	0	0.0%	
32.1%	7	7	0	0.0%	
33.3%	7	7	0	0.0%	
34.6%	7	7	0	-1.3%	
35.8%	6	6	0	0.0%	
37.0%	6	6	0	0.0%	
38.3%	6	6	0	-0.6%	
39.5%	6	6	0	-1.8%	
40.7%	6	6	0	-1.6%	
42.0%	6	5	0	-0.9%	
43.2%	5	5	0	-2.4%	
44.4%	5	5	0	-7.3%	
45.7%	5	5	0	1.0%	
46.9%	4	5	0	2.0%	
48.1%	4	4	0	0.0%	
49.4%	4	4	0	6.4%	
50.6%	4	4	0	2.5%	
5					

Table SW-53-b  
 Sacramento River at Bend Bridge, Monthly Stage  
 Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	25	25	0	0.0%	
1.2%	25	24	0	-1.3%	
2.5%	20	20	0	0.0%	
3.7%	20	20	0	0.0%	
4.9%	20	20	0	0.0%	
6.2%	19	19	0	0.0%	
7.4%	18	18	0	0.0%	
8.6%	17	17	0	0.0%	
9.9%	16	16	0	0.0%	
11.1%	16	16	0	0.0%	
12.3%	15	16	1	4.3%	
13.6%	15	15	0	1.3%	
14.8%	15	15	0	0.9%	
16.0%	15	15	0	0.1%	
17.3%	15	15	0	0.0%	
18.5%	14	14	0	0.0%	
19.8%	13	13	0	0.0%	
21.0%	13	13	0	1.9%	
22.2%	13	13	0	1.4%	
23.5%	12	13	0	3.3%	
24.7%	12	12	0	4.2%	
25.9%	11	12	0	2.5%	
27.2%	11	11	0	0.0%	
28.4%	10	10	0	0.0%	
29.6%	9	10	1	-5.6%	
30.9%	9	9	0	0.9%	
32.1%	8	8	0	3.5%	
33.3%	8	8	0	4.8%	
34.6%	7	8	0	5.2%	
35.8%	7	7	0	0.0%	
37.0%	7	7	0	-1.3%	
38.3%	6	7	0	0.0%	
39.5%	6	6	0	0.0%	
40.7%	6	6	0	0.8%	
42.0%	6	6	0	2.1%	
43.2%	6	6	0	1.2%	
44.4%	6	6	0	3.3%	
45.7%	5	5	0	1.2%	
46.9%	5	5	0	0.0%	
48.1%	5	5	0	0.0%	
49.4%	5	5	0	0.0%	
50.6%	5	5	0	-0.9%	
51.9%	5	5	0	0.7%	
53.1%	5	5	0	0.0%	
54.3%	5	5	0	1.8%	
55.6%	5	5	0	0.0%	
56.8%	4	4	0	0.0%	
58.0%	4	4	0	0.0%	
59.3%	4	4	0	-0.1%	
60.5%	4	4	0	0.0%	
61.7%	4	4	0	0.0%	
63.0%	4	4	0	0.0%	
64.2%	4	4	0	-0.0%	
65.4%	4	4	0	0.0%	
66.7%	4	4	0	0.0%	
67.9%	3	3	0	0.0%	
69.1%	3	3	0	0.1%	
70.4%	3	3	0	0.7%	
71.6%	3	3	0	1.7%	
72.8%	3	3	0	7.5%	
74.1%	3	3	0	0.0%	
75.3%	3	3	0	0.0%	
76.5%	3	3	0	0.0%	
77.8%	3	3	0	-0.0%	
79.0%	3	3	0	0.0%	
80.2%	3	3	0	0.0%	
81.5%	3	3	0	1.0%	
82.7%	3	3	0	1.1%	
84.0%	2	3	0	5.6%	
85.2%	2	2	0	8.1%	
86.4%	2	2	0	4.7%	
87.7%	2	2	0	0.7%	
88.9%	2	2	0	1.3%	
90.1%	2	2	0	2.8%	
91.4%	2	2	0	-0.0%	
92.6%	2	2	0	1.3%	
93.8%	2	2	0	1.0%	
95.1%	2	2	0	0.1%	
96.3%	2	2	0	0.1%	
97.5%	2	2	0	2.1%	
98.8%	2	2	0	-4.9%	
100.0%	2	2	0	1.0%	

March					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	24	24	0	0.0%	
1.2%	23	23	0	0.0%	
2.5%	19	19	0	0.0%	
3.7%	17	17	0	0.0%	
4.9%	15	15	0	-2.3%	
6.2%	14	14	0	0.0%	
7.4%	14	14	0	-0.1%	
8.6%	13	13	0	0.0%	
9.9%	13	13	0	0.0%	
11.1%	12	12	0	0.0%	
12.3%	10	10	0	0.0%	
13.6%	10	10	0	-2.9%	
14.8%	10	9	0	-1.4%	
16.0%	9	9	0	-0.4%	
17.3%	9	9	0	-2.6%	
18.5%	9	9	0	0.9%	
19.8%	9	9	0	1.4%	
21.0%	9	9	0	1.4%	
22.2%	8	8	0	0.6%	
23.5%	8	8	0	0.0%	
24.7%	8	8	1	8.0%	
25.9%	7	8	1	8.4%	
27.2%	7	7	0	7.0%	
28.4%	7	7	0	1.8%	
29.6%	6	7	0	6.0%	
30.9%	6	7	0	4.2%	
32.1%	4	7	0	4.8%	
33.3%	6	6	0	3.6%	
34.6%	6	6	0	4.9%	
35.8%	6	6	0	0.0%	
37.0%	6	6	0	0.0%	
38.3%	6	6	0	-1.7%	
39.5%	5	5	0	0.0%	
40.7%	5	5	0	0.0%	
42.0%	5	5	0	0.0%	
43.2%	5	5	0	0.0%	
44.4%	4	4	0	0.0%	
45.7%	4	4	0	0.0%	
46.9%	4	4	0	0.0%	
48.1%	4	4	0	0.0%	
49.4%	4	4	0	0.0%	
50.6%	4	4	0	0.1%	
51.9%	4	4	0	0.0%	
53.1%	4	4	0	0.0%	
54.3%	4	4	0	0.0%	
55.6%	4	4	0	-0.1%	
56.8%	4	4	0	0.0%	
58.0%	3	4	0	0.0%	
59.3%	3	3	0	0.0%	
60.5%	3	3	0	0.0%	
61.7%	3	3	0	0.0%	
63.0%	3	3	0	0.0%	
64.2%	3	3	0	0.0%	
65.4%	3	3	0	0.0%	
66.7%	3	3	0	0.0%	
67.9%	3	3	0	0.1%	
69.1%	3	3	0	0.0%	
70.4%	3	3	0	0.0%	
71.6%	3	3	0	7.5%	
72.8%	3	3	0	0.1%	
74.1%	3	3	0	0.2%	
75.3%	3	3	0	0.0%	
76.5%	3	3	0	4.1%	
77.8%	3	3	0	3.7%	
79.0%	3	3	0	1.7%	
80.2%	3	3	0	0.0%	
81.5%	3	3	0	0.1%	
82.7%	2	3	0	4.4%	
84.0%	2	2	0	-0.1%	
85.2%	2	2	0	0.0%	
86.4%	2	2	0	0.0%	
87.7%	2	2	0	0.0%	
88.9%	2	2	0	0.0%	
90.1%	2	2	0	0.0%	
91.4%	2	2	0	0.6%	
92.6%	2	2	0	-0.2%	
93.8%	2	2	0	0.1%	
95.1%	2	2	0	2.3%	
96.3%	2	2	0	1.2%	
97.5%	2	2	0	0.1%	
98.8%	2	2	0	2.8%	
100.0%	2	2	0	0.4%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	16	16	0	0.0%	
1.2%	13	13	0	0.0%	
2.5%	12	12	0	0.0%	
3.7%	10	10	0	0.0%	
4.9%	9	10	0	5.4%	
6.2%	9	9	0	1.4%	
7.4%	8	9	1	10.6%	
8.6%	8	8	0	0.7%	
9.9%	7	7	0	0.0%	
11.1%	7	12	0	-3.5%	
12.3%	7	7	0	0.0%	
13.6%	7	7	0	0.0%	
14.8%	6	6	0	0.0%	
16.0%	6	6	0	-0.6%	
17.3%	6	6	0	0.0%	
18.5%	5	5	0	-0.1%	
19.8%	5	5	0	0.0%	
21.0%	5	5	0	0.0%	
22.2%	5	5	0	0.0%	
23.5%	5	5	0	0.0%	
24.7%	5	5	0	2.7%	
25.9%	5	5	0	5.1%	
27.2%	5	4	0	-2.2%	
28.4%	4	4	0	-6.4%	
29.6%	4	4	0	-4.8%	
30.9%	4	4	0	-5.1%	
32.1%	4	4	0	-4.2%	
33.3%	4	4	0	-4.7%	
34.6%	4	4	0	-4.3%	
35.8%	4	4	0	-4.1%	
37.0%	4	4	0	-1.4%	
38.3%	4	4	0	-1.3%	
39.5%	4	4	0	-0.3%	
40.7%	4	4	0	-0.1%	
42.0%	4	4	0	-0.1%	
43.2%	4	4	0	-2.5%	
44.4%	4	4	0	-3.1%	
45.7%	4	4	0	-1.0%	
46.9%	4	4	0	-1.0%	
48.1%	4	4	0	-0.2%	
49.4%	4	4	0	-0.9%	
50.6%	4	3	0	-1.7%	
51.9%	4	3	0	-2.6%	
53.1%	4	3	0	-1.4%	
54.3%	4	3	0	-1.9%	
55.6%	3	3	0	-1.3%	
56.8%	3	3	0	-1.2%	
58.0%	3	3	0	-2.3%	
59.3%	3	3	0	-4.2%	
60.5%	3	3	0	-5.1%	
61.7%	3	3	0	-2.0%	
63.0%	3	3	0	-2.7%	
64.2%	3	3	0	-3.9%	
65.4%	3	3	0	-4.5%	
66.7%	3	3	0	-3.2%	
67.9%	3	3	0	-5.4%	
69.1%	3	3	0	-4.5%	
70.4%	3	3	0	-6.1%	
71.6%	3	3	0	-5.7%	
72.8%	3	3	0	-7.0%	
74.1%	3	3	0	-6.8%	
75.3%	3	3	0	-7.3%	
76.5%	3	3	0	-7.0%	
77.8%	3	3	0	-4.2%	
79.0%	3	3	0	-3.9%	
80.2%	3	3	0	-3.4%	
81.5%	3	3	0	-4.4%	
82.7%	3	3	0	-4.9%	
84.0%	3	3	0	-4.1%	
85.2%	3	3	0	-2.9%	
86.4%	3	3	0	-2.3%	
87.7%	3	3	0	-1.9%	
88.9%	3	3	0	-3.1%	
90.1%	3	3	0	-2.8%	
91.4%	3	3	0	-2.0%	
92.6%	3	3	0	-2.3%	
93.8%	2	3	0	3.0%	
95.1%	2	3	0	5.7%	
96.3%	2	3	0	10.9%	
97.5%	2	2	0	11.3%	
98.8%	2	2	0	0.2%	
100.0%	2	2	0	0.1%	

May					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	8	8	0	0.0%	
1.2%	8	8	0	1.6%	
2.5%	7	12	7	0	0.0%
3.7%	7	7	0	0.0%	
4.9%	6	6	0	0.0%	
6.2%	6	6	0	-0.8%	
7.4%	6	6	0	0.0%	
8.6%	5	6	0	13.1%	
9.9%	5	5	0	6.0%	
11.1%	5	5	0	3.2%	
12.3%	5	4	0	-2.1%	
13.6%	5	4	0	-4.9%	
14.8%	5	4	0	-5.6%	
16.0%	5	4	0	-5.8%	
17.3%	4	4	0	-5.8%	
18.5%	4	4	0	-4.8%	
19.8%	4	4	0	-4.0%	
21.0%	4	4	0	-6.8%	
22.2%	4	4	0	-6.4%	
23.5%</					

Table SW-53-b  
Sacramento River at Bend Bridge, Monthly Stage  
Probability of Exceedance

Percent Exceedance Probability	June			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	7	7	0	-1.8%
1.2%	7	7	0	-1.2%
2.5%	6	6	0	-1.2%
3.7%	6	6	0	0.0%
4.9%	6	6	0	0.0%
6.2%	6	6	0	-2.2%
7.4%	6	6	0	-2.1%
8.6%	6	6	0	-2.1%
9.9%	6	6	0	-4.0%
11.1%	6	6	0	-5.4%
12.3%	6	6	0	-6.8%
13.6%	6	6	0	-6.8%
14.8%	6	6	0	-7.1%
16.0%	6	6	0	-6.6%
17.3%	6	6	0	-6.6%
18.5%	6	6	0	-6.8%
19.8%	6	5	-1	-8.5%
21.0%	6	5	0	-8.4%
22.2%	6	5	0	-8.4%
23.5%	6	5	0	-7.9%
24.7%	6	5	0	-7.3%
25.9%	6	5	0	-5.1%
27.2%	6	5	0	-5.7%
28.4%	6	5	0	-5.9%
29.6%	6	5	0	-5.4%
30.9%	6	5	0	-5.4%
32.1%	6	5	0	-4.6%
33.3%	6	5	0	-4.6%
34.6%	6	5	0	-5.3%
35.8%	6	5	0	-6.1%
37.0%	6	5	0	-7.0%
38.3%	5	5	0	-6.2%
39.5%	5	5	0	-6.3%
40.7%	5	5	0	-7.0%
42.0%	5	5	0	-6.2%
43.2%	5	5	0	-5.5%
44.4%	5	5	0	-5.4%
45.7%	5	5	0	-3.7%
46.9%	5	5	0	-4.5%
48.1%	5	5	0	-3.7%
49.4%	5	5	0	-3.7%
50.6%	5	5	0	-4.5%
51.9%	5	5	0	-3.8%
53.1%	5	5	0	-3.8%
54.3%	5	5	0	-4.4%
55.6%	5	5	0	-3.6%
56.8%	5	5	0	-3.5%
58.0%	5	5	0	-2.8%
59.3%	5	5	0	-3.6%
60.5%	5	5	0	-2.8%
61.7%	5	5	0	-2.8%
63.0%	5	5	0	-3.6%
64.2%	5	5	0	-4.6%
65.4%	5	5	0	-3.0%
66.7%	5	5	0	-3.8%
67.9%	5	5	0	-3.8%
69.1%	5	5	0	-3.9%
70.4%	5	5	0	-3.6%
71.6%	5	5	0	-4.1%
72.8%	5	5	0	-4.1%
74.1%	5	5	0	-3.7%
75.3%	5	5	0	-3.8%
76.5%	5	5	0	-3.0%
77.8%	5	5	0	-3.7%
79.0%	5	5	0	-3.1%
80.2%	5	5	0	-4.0%
81.5%	5	5	0	-3.0%
82.7%	5	4	0	-3.9%
84.0%	5	4	0	-3.1%
85.2%	5	4	0	-3.2%
86.4%	5	4	0	-3.9%
87.7%	5	4	0	-7.6%
88.9%	5	4	0	-7.2%
90.1%	4	4	0	-6.3%
91.4%	4	4	0	-8.1%
92.6%	4	4	0	-8.5%
93.8%	4	4	0	-11.2%
95.1%	4	4	0	-10.4%
96.3%	4	4	-1	-13.6%
97.5%	4	4	0	-8.0%
98.8%	4	4	0	-6.1%
100.0%	4	3	0	-8.6%

Percent Exceedance Probability	July			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	7	8	1	19.3%
1.2%	7	8	1	17.3%
2.5%	7	7	0	1.1%
3.7%	7	7	0	0.0%
4.9%	7	7	0	0.7%
6.2%	7	7	0	0.0%
7.4%	7	7	0	0.0%
8.6%	7	7	0	0.0%
9.9%	7	7	0	0.0%
11.1%	7	7	0	0.0%
12.3%	7	7	0	0.0%
13.6%	7	7	0	0.0%
14.8%	7	7	0	0.0%
16.0%	7	7	0	0.0%
17.3%	7	7	0	0.0%
18.5%	7	7	0	0.5%
19.8%	7	7	0	0.0%
21.0%	7	7	0	-0.1%
22.2%	7	7	0	-0.1%
23.5%	7	7	0	0.0%
24.7%	7	7	0	0.0%
25.9%	7	7	0	0.0%
27.2%	7	7	0	-0.7%
28.4%	7	7	0	-0.6%
29.6%	7	7	0	-0.6%
30.9%	7	7	0	-0.6%
32.1%	7	7	0	-0.5%
33.3%	7	7	0	-0.1%
34.6%	7	7	0	-0.1%
35.8%	7	7	0	-0.1%
37.0%	7	7	0	-0.5%
38.3%	7	7	0	-0.5%
39.5%	7	7	0	0.0%
40.7%	7	7	0	0.0%
42.0%	7	6	0	-0.8%
43.2%	7	4	0	-3.8%
44.4%	7	6	0	-0.8%
45.7%	7	6	0	-1.4%
46.9%	7	6	0	-1.9%
48.1%	7	6	0	-2.5%
49.4%	6	6	0	-2.5%
50.6%	6	6	0	-2.5%
51.9%	6	6	0	-3.2%
53.1%	6	6	0	-4.5%
54.3%	6	6	0	-5.8%
55.6%	6	6	0	-5.7%
56.8%	6	6	0	-5.8%
58.0%	6	6	0	-5.8%
59.3%	6	6	0	-7.2%
60.5%	6	6	0	-5.4%
61.7%	6	6	0	-5.4%
63.0%	6	6	0	-5.3%
64.2%	6	6	0	-4.8%
65.4%	6	6	0	-4.2%
66.7%	6	6	0	-4.1%
67.9%	6	6	0	-4.1%
69.1%	6	6	0	-3.6%
70.4%	6	6	0	-3.6%
71.6%	6	6	0	-2.9%
72.8%	6	6	0	-2.9%
74.1%	6	6	0	-2.0%
75.3%	6	6	0	-2.9%
76.5%	6	6	0	-2.2%
77.8%	6	6	0	-1.6%
79.0%	6	6	0	-2.3%
80.2%	6	6	0	-1.0%
81.5%	6	6	0	-1.5%
82.7%	6	6	0	-0.7%
84.0%	6	6	0	-1.5%
85.2%	6	5	0	-2.3%
86.4%	6	5	0	-1.8%
87.7%	6	5	0	-1.7%
88.9%	5	5	0	-0.9%
90.1%	5	5	0	0.0%
91.4%	5	5	0	0.0%
92.6%	5	5	0	1.2%
93.8%	5	5	0	1.8%
95.1%	5	5	0	-0.1%
96.3%	5	5	0	-0.9%
97.5%	5	5	0	4.9%
98.8%	5	5	0	7.2%
100.0%	4	4	0	1.8%

Percent Exceedance Probability	August			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	6	6	0	-1.0%
1.2%	6	6	0	-0.7%
2.5%	6	5	-1	-9.5%
3.7%	6	5	0	-6.9%
4.9%	6	5	0	-6.8%
6.2%	6	5	0	-8.8%
7.4%	6	5	0	-7.9%
8.6%	6	5	0	-7.9%
9.9%	6	5	0	-8.1%
11.1%	5	5	0	-7.9%
12.3%	5	5	0	-6.1%
13.6%	5	5	0	-5.3%
14.8%	5	5	0	-4.4%
16.0%	5	5	0	-3.7%
17.3%	5	5	0	-4.7%
18.5%	5	5	0	-4.7%
19.8%	5	5	0	-4.7%
21.0%	5	5	0	-4.6%
22.2%	5	5	0	-4.7%
23.5%	5	5	0	-4.8%
24.7%	5	5	0	-4.8%
25.9%	5	5	0	-4.2%
27.2%	5	5	0	-4.1%
28.4%	5	5	0	-3.8%
29.6%	5	5	0	-3.8%
30.9%	5	5	0	-3.8%
32.1%	5	5	0	-3.8%
33.3%	5	5	0	-3.7%
34.6%	5	5	0	-2.9%
35.8%	5	5	0	-1.9%
37.0%	5	5	0	-2.7%
38.3%	4	4	0	-3.0%
39.5%	5	4	0	-2.1%
40.7%	4	4	0	-1.1%
42.0%	5	4	0	-1.1%
43.2%	4	3	0	-1.3%
44.4%	4	4	0	0.0%
45.7%	4	4	0	0.0%
46.9%	4	4	0	0.1%
48.1%	4	4	0	0.1%
49.4%	4	4	0	0.1%
50.6%	4	4	0	2.1%
51.9%	4	4	0	2.1%
53.1%	4	4	0	2.1%
54.3%	4	4	0	2.1%
55.6%	4	4	0	3.1%
56.8%	4	4	0	2.8%
58.0%	4	4	0	3.1%
59.3%	4	4	0	4.1%
60.5%	4	4	0	4.3%
61.7%	4	4	0	4.6%
63.0%	4	4	0	6.1%
64.2%	4	4	0	6.2%
65.4%	4	4	0	6.3%
66.7%	4	4	0	5.3%
67.9%	4	4	0	6.1%
69.1%	4	4	0	6.4%
70.4%	4	4	0	6.2%
71.6%	4	4	0	6.4%
72.8%	4	4	0	6.6%
74.1%	4	4	0	7.6%
75.3%	4	4	0	8.4%
76.5%	4	4	0	8.4%
77.8%	4	4	0	10.5%
79.0%	4	4	0	10.7%
80.2%	4	4	0	10.8%
81.5%	4	4	0	11.4%
82.7%	4	4	0	11.6%
84.0%	4	4	0	12.8%
85.2%	4	4	0	12.8%
86.4%	4	4	0	13.4%
87.7%	4	4	1	14.0%
88.9%	4	4	1	16.2%
90.1%	4	4	1	16.8%
91.4%	4	4	0	13.3%
92.6%	3	4	0	14.0%
93.8%	3	4	0	14.4%
95.1%	3	4	1	15.8%
96.3%	3	4	1	16.4%
97.5%	3	4	1	18.9%
98.8%	3	4	1	22.0%
100.0%	3	4	1	38.2%

Percent Exceedance Probability	September			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	7	7	0	-0.7%
1.2%	7	7	0	-1.1%
2.5%	7	7	0	-2.3%
3.7%	7	7	0	-1.3%
4.9%	7	7	0	-1.2%
6.2%	7	7	0	-1.9%
7.4%	7	7	0	-1.9%
8.6%	7	7	0	-1.9%
9.9%	7	7	0	-2.4%
11.1%	7	7	0	-1.4%
12.3%	7	7	0	-0.5%
13.6%	7	7	0	0.0%
14.8%	6	6	0	0.1%
16.0%	6	6	0	7.3%
17.3%	6	6	0	2.5%
18.5%	5	6	0	6.3%
19.8%	5	6	0	5.5%
21.0%	5	5	0	0.8%
22.2%	5	5	0	-2.7%
23.5%	5	5	0	-4.6%
24.7%	5	5	0	-3.6%
25.9%	5	5	0	-6.3%
27.2%	5	5	0	-8.3%
28.4%	5	5	0	-3.8%
29.6%	5	5	0	-3.7%
30.9%	5	4	0	-6.9%
32.1%	5	4	0	-9.0%
33.3%	4	4	0	-3.6%
34.6%	4	4	0	-2.7%
35.8%	4	4	0	-4.1%
37.0%	4	4	0	3.5%
38.3%	4	4	0	3.3%
39.5%	4	4	0	-2.3%
40.7%	4	4	0	0.4%
42.0%	4	4	0	0.9%
43.2%	4	4	0	0.4%
44.4%	3	3	0	2.7%
45.7%	3	3	0	0.1%
46.9%	3	3	0	-1.1%
48.1%	3	3	0	-1.9%
49.4%	3	3	0	-5.3%
50.6%	3	4	0	-6.8%
51.9%	3	3	0	-6.8%
53.1%	3	3	0	-4.2%
54.3%	3	3	0	-3.4%
55.6%	3	3	0	-1.0%
56.8%	3	3	0	-3.2%
58.0%	3	3	0	2.2%
59.3%	3	3	0	2.5%
60.5%	3	3	0	7.0%
61.7%	2	3	0	9.6%
63.0%	2	3	0	10.5%
64.2%	2	4	0	11.4%
65.4%	2	3	0	14.2%
66.7%	2	3	0	17.0%
67.9%	2	3	0	13.5%
69.1%	2	3	0	13.6%
70.4%	2			

**Figure SW-54-b**  
**Sacramento River below Hamilton City, Monthly Stage**  
**Probability of Exceedance**

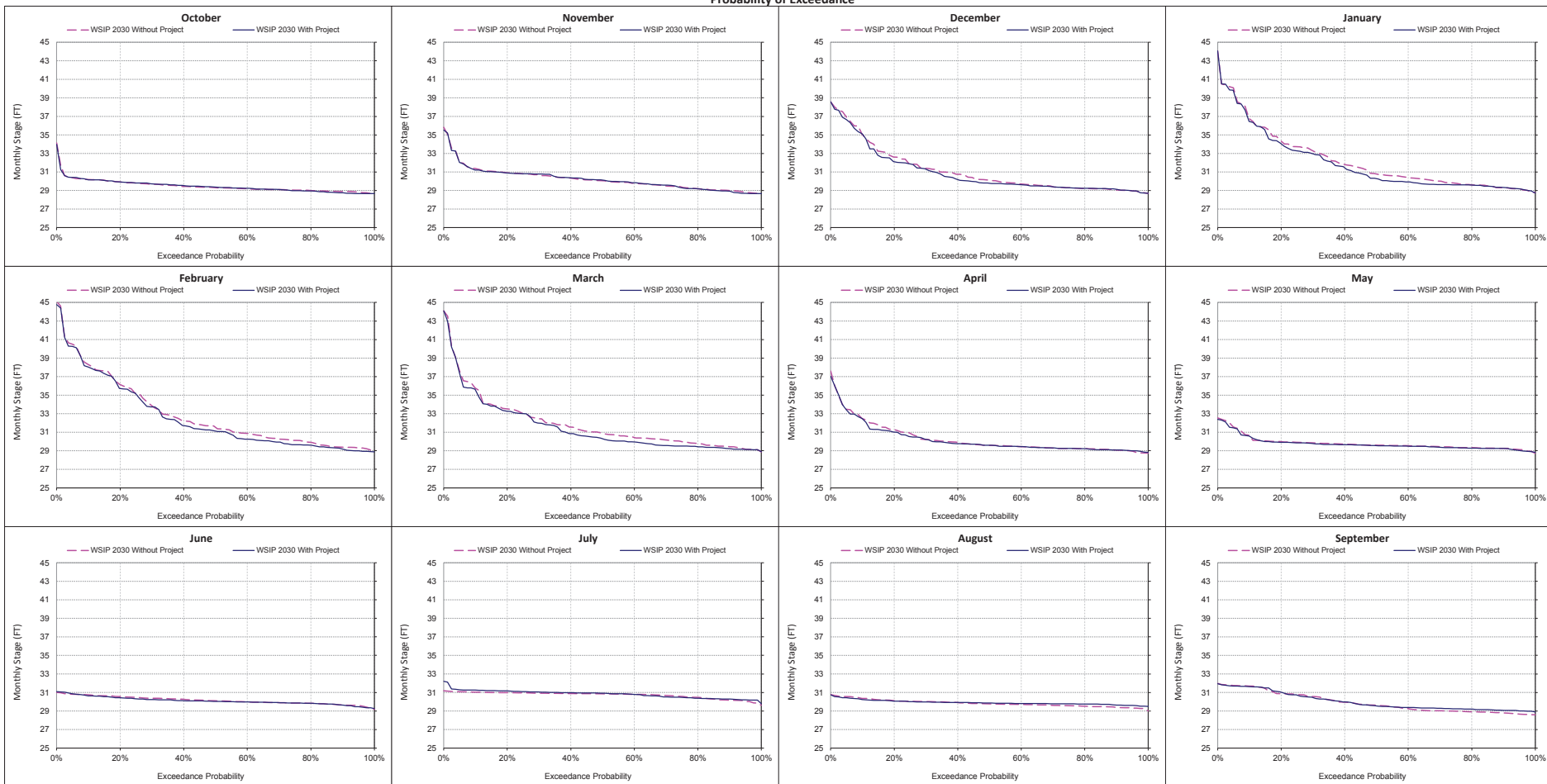


Table SW-54-b  
Sacramento River below Hamilton City, Monthly Stage  
Probability of Exceedance

October				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	34	34	0	-0.4%
1.2%	32	31	-1	-1.6%
2.5%	31	31	0	-0.1%
3.7%	30	30	0	0.0%
4.9%	30	30	0	0.1%
6.2%	30	30	0	0.4%
7.4%	30	30	0	0.1%
8.6%	30	30	0	0.3%
9.9%	30	30	0	0.1%
11.1%	30	30	0	-0.2%
12.3%	30	30	0	-0.1%
13.6%	30	30	0	0.0%
14.8%	30	30	0	-0.1%
16.0%	30	30	0	0.0%
17.3%	30	30	0	0.1%
18.5%	30	30	0	0.0%
19.8%	30	30	0	0.0%
21.0%	30	30	0	0.1%
22.2%	30	30	0	0.1%
23.5%	30	30	0	0.1%
24.7%	30	30	0	0.0%
25.9%	30	30	0	0.2%
27.2%	30	30	0	0.3%
28.4%	30	30	0	0.2%
29.6%	30	30	0	-1.2%
30.9%	30	30	0	0.1%
32.1%	30	30	0	0.0%
33.3%	30	30	0	0.2%
34.6%	30	30	0	0.2%
35.8%	30	30	0	0.2%
37.0%	30	30	0	-1.2%
38.3%	29	30	0	0.2%
39.5%	29	30	0	0.4%
40.7%	29	30	0	0.2%
42.0%	29	29	0	0.2%
43.2%	29	29	0	0.2%
44.4%	29	29	0	0.3%
45.7%	29	29	0	0.3%
46.9%	29	29	0	0.2%
48.1%	29	29	0	0.2%
49.4%	29	29	0	0.2%
50.6%	29	29	0	-1.2%
51.9%	29	29	0	0.2%
53.1%	29	29	0	0.2%
54.3%	29	29	0	0.2%
55.6%	29	29	0	0.0%
56.8%	29	29	0	0.1%
58.0%	29	29	0	-1.2%
59.3%	29	29	0	0.2%
60.5%	29	29	0	0.2%
61.7%	29	29	0	0.2%
63.0%	29	29	0	0.1%
64.2%	29	29	0	0.1%
65.4%	29	29	0	0.1%
66.7%	29	29	0	0.1%
67.9%	29	29	0	0.1%
69.1%	29	29	0	0.0%
70.4%	29	29	0	0.0%
71.6%	29	29	0	-0.1%
72.8%	29	29	0	0.0%
74.1%	29	29	0	-0.2%
75.3%	29	29	0	-0.2%
76.5%	29	29	0	-0.2%
77.8%	29	29	0	-0.3%
79.0%	29	29	0	-0.3%
80.2%	29	29	0	-0.1%
81.5%	29	29	0	-0.2%
82.7%	29	29	0	-0.3%
84.0%	29	29	0	-0.3%
85.2%	29	29	0	-0.4%
86.4%	29	29	0	-0.3%
87.7%	29	29	0	-0.5%
88.9%	29	29	0	-0.5%
90.1%	29	29	0	-0.5%
91.4%	29	29	0	-0.7%
92.6%	29	29	0	-0.7%
93.8%	29	29	0	-0.6%
95.1%	29	29	0	-0.6%
96.3%	29	29	0	-0.3%
97.5%	29	29	0	-0.3%
98.8%	29	29	0	-0.1%
100.0%	29	29	0	0.0%

November				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	36	36	0	-0.8%
1.2%	35	35	0	0.4%
2.5%	34	33	-1	-0.5%
3.7%	33	33	0	-0.2%
4.9%	32	32	0	0.0%
6.2%	32	32	0	-0.3%
7.4%	32	32	0	0.0%
8.6%	31	31	0	-0.1%
9.9%	31	31	0	0.5%
11.1%	31	31	0	-0.2%
12.3%	31	31	0	-0.2%
13.6%	31	31	0	-0.2%
14.8%	31	31	0	-0.2%
16.0%	31	31	0	-0.2%
17.3%	31	31	0	-0.1%
18.5%	31	31	0	-0.1%
19.8%	31	31	0	-0.1%
21.0%	31	31	0	-0.1%
22.2%	31	31	0	-0.1%
23.5%	31	31	0	0.0%
24.7%	31	31	0	0.0%
25.9%	31	31	0	0.1%
27.2%	31	31	0	0.1%
28.4%	31	31	0	0.3%
29.6%	31	31	0	0.2%
30.9%	31	31	0	0.5%
32.1%	31	31	0	0.5%
33.3%	31	31	0	0.6%
34.6%	30	30	0	0.2%
35.8%	30	30	0	0.0%
37.0%	30	30	0	0.0%
38.3%	30	30	0	0.0%
39.5%	30	30	0	0.1%
40.7%	30	30	0	0.2%
42.0%	30	30	0	0.4%
43.2%	30	30	0	0.4%
44.4%	30	30	0	0.2%
45.7%	30	30	0	0.1%
46.9%	30	30	0	0.1%
48.1%	30	30	0	0.2%
49.4%	30	30	0	0.3%
50.6%	30	30	0	0.2%
51.9%	30	30	0	0.1%
53.1%	30	30	0	0.2%
54.3%	30	30	0	0.3%
55.6%	30	30	0	0.2%
56.8%	30	30	0	0.3%
58.0%	30	30	0	0.1%
59.3%	30	30	0	0.2%
60.5%	30	30	0	0.2%
61.7%	30	30	0	0.2%
63.0%	30	30	0	0.0%
64.2%	30	30	0	0.1%
65.4%	30	30	0	0.0%
66.7%	30	30	0	0.1%
67.9%	30	30	0	0.1%
69.1%	30	30	0	0.1%
70.4%	29	29	0	0.3%
71.6%	29	29	0	0.3%
72.8%	29	30	0	0.2%
74.1%	29	29	0	-0.3%
75.3%	29	29	0	-0.2%
76.5%	29	29	0	-0.2%
77.8%	29	29	0	-0.3%
79.0%	29	29	0	0.0%
80.2%	29	29	0	0.0%
81.5%	29	29	0	-0.1%
82.7%	29	29	0	-0.2%
84.0%	29	29	0	-0.1%
85.2%	29	29	0	0.1%
86.4%	29	29	0	-0.3%
87.7%	29	29	0	-0.3%
88.9%	29	29	0	-0.3%
90.1%	29	29	0	-0.2%
91.4%	29	29	0	-0.7%
92.6%	29	29	0	-0.6%
93.8%	29	29	0	-0.6%
95.1%	29	29	0	-0.4%
96.3%	29	29	0	-0.4%
97.5%	29	29	0	-0.2%
98.8%	29	29	0	-0.1%
100.0%	29	29	0	0.0%

December				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	39	39	0	0.0%
1.2%	38	38	0	-0.6%
2.5%	38	38	0	0.0%
3.7%	38	37	-1	-1.6%
4.9%	37	37	0	-0.7%
6.2%	36	36	0	-0.4%
7.4%	36	36	0	-0.7%
8.6%	36	35	-1	-1.7%
9.9%	35	35	0	0.1%
11.1%	35	35	0	0.0%
12.3%	34	33	-1	-2.1%
13.6%	34	33	-1	-1.5%
14.8%	33	33	0	-1.4%
16.0%	33	33	-1	-1.9%
17.3%	33	33	-1	-1.7%
18.5%	33	33	0	-0.9%
19.8%	33	32	-1	-1.5%
21.0%	33	32	-1	-1.7%
22.2%	32	32	0	-1.2%
23.5%	32	32	0	-1.3%
24.7%	32	32	0	0.0%
25.9%	32	32	0	-0.2%
27.2%	32	31	0	-1.2%
28.4%	31	31	0	0.0%
29.6%	31	31	0	-0.2%
30.9%	31	31	0	-0.8%
32.1%	31	31	0	-0.8%
33.3%	31	31	0	-1.0%
34.6%	31	31	0	-0.7%
35.8%	31	31	0	-1.6%
37.0%	31	30	-1	-1.5%
38.3%	31	30	-1	-1.6%
39.5%	31	30	-1	-1.8%
40.7%	31	30	-1	-2.1%
42.0%	31	30	-1	-2.0%
43.2%	30	30	0	-1.3%
44.4%	30	30	0	-1.4%
45.7%	30	30	0	-0.9%
46.9%	30	30	0	-1.2%
48.1%	30	30	0	-1.2%
49.4%	30	30	0	-1.1%
50.6%	30	30	0	-1.0%
51.9%	30	30	0	-1.0%
53.1%	30	30	0	-0.7%
54.3%	30	30	0	-0.4%
55.6%	30	30	0	-0.6%
56.8%	30	30	0	-0.4%
58.0%	30	30	0	-0.4%
59.3%	30	30	0	-0.2%
60.5%	30	30	0	-0.3%
61.7%	30	30	0	-0.2%
63.0%	30	30	0	-0.4%
64.2%	30	29	0	-0.4%
65.4%	30	29	0	-0.2%
66.7%	30	29	0	-0.2%
67.9%	30	29	0	-0.2%
69.1%	29	29	0	-0.2%
70.4%	29	29	0	0.1%
71.6%	29	29	0	0.0%
72.8%	29	29	0	0.1%
74.1%	29	29	0	0.0%
75.3%	29	29	0	0.0%
76.5%	29	29	0	0.0%
77.8%	29	29	0	0.1%
79.0%	29	29	0	0.1%
80.2%	29	29	0	0.1%
81.5%	29	29	0	0.1%
82.7%	29	29	0	0.1%
84.0%	29	29	0	0.1%
85.2%	29	29	0	0.1%
86.4%	29	29	0	0.1%
87.7%	29	29	0	0.2%
88.9%	29	29	0	0.3%
90.1%	29	29	0	0.3%
91.4%	29	29	0	0.4%
92.6%	29	29	0	0.0%
93.8%	29	29	0	0.0%
95.1%	29	29	0	0.0%
96.3%	29	29	0	0.1%
97.5%	29	29	0	-0.3%
98.8%	29	29	0	-0.1%
100.0%	29	29	0	0.0%

January				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	44	44	0	0.0%
1.2%	41	41	0	0.0%
2.5%	40	40	0	0.2%
3.7%	40	40	0	-0.9%
4.9%	40	40	0	-0.7%
6.2%	39	38	0	-0.5%
7.4%	38	38	0	-0.1%
8.6%	38	38	0	-1.0%
9.9%	37	36	-1	-0.9%
11.1%	36	36	0	-0.3%
12.3%	36	36	0	0.1%
13.6%	36	36	0	0.1%
14.8%	36	36	0	-0.7%
16.0%	36	35	-1	-2.8%
17.3%	35	34	0	-1.3%
18.5%	35	34	0	-1.3%
19.8%	34	34	0	-0.9%
21.0%	34	34	0	-0.7%
22.2%	34	34	0	-1.4%
23.5%	34	33	0	-1.1%
24.7%	34	33	0	-1.4%
25.9%	34	33	0	-1.4%
27.2%	34	33	0	-1.4%
28.4%	34	33	0	-1.4%
29.6%	33	33	0	-1.0%
30.9%	33	33	0	-0.8%
32.1%	33	33	0	-0.5%
33.3%	33	32	-1	-1.6%
34.6%	33	32	0	-1.5%
35.8%	32	32	0	-0.4%
37.0%	32	32	0	-1.5%
38.3%	32	32	0	-1.0%
39.5%	32	32	0	-0.8%
40.7%	32	31	0	-1.5%
42.0%	32	31</		



Table SW-54-b  
Sacramento River below Hamilton City, Monthly Stage  
Probability of Exceedance

February					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	45	45	0	-0.7%	
1.2%	44	44	0	-0.5%	
2.5%	41	41	0	-0.3%	
3.7%	41	40	0	-0.9%	
4.9%	41	40	0	-0.6%	
6.2%	40	40	0	-0.4%	
7.4%	39	39	0	0.0%	
8.6%	38	38	0	-1.0%	
9.9%	38	38	0	-0.7%	
11.1%	38	38	0	-0.5%	
12.3%	38	38	0	-0.2%	
13.6%	38	38	0	-0.1%	
14.8%	38	37	0	-0.7%	
16.0%	38	37	0	-1.1%	
17.3%	37	37	0	0.0%	
18.5%	37	37	0	0.0%	
19.8%	36	36	0	-1.3%	
21.0%	36	36	0	-0.8%	
22.2%	36	36	0	-0.5%	
23.5%	36	35	0	-0.9%	
24.7%	35	35	0	0.0%	
25.9%	35	35	0	-1.3%	
27.2%	35	34	0	-1.2%	
28.4%	34	34	-1	-1.5%	
29.6%	34	34	0	-0.6%	
30.9%	34	34	0	0.3%	
32.1%	33	33	0	0.1%	
33.3%	33	33	0	-1.0%	
34.6%	33	32	0	-1.4%	
35.8%	33	32	0	-1.3%	
37.0%	33	32	0	-0.9%	
38.3%	32	32	0	-1.3%	
39.5%	32	32	-1	-1.6%	
40.7%	32	32	-1	-1.6%	
42.0%	32	32	-1	-1.7%	
43.2%	32	31	-1	-1.6%	
44.4%	32	31	-1	-1.6%	
45.7%	32	31	0	-1.5%	
46.9%	32	31	0	-1.4%	
48.1%	32	31	0	-1.4%	
49.4%	32	31	-1	-1.6%	
50.6%	31	31	0	-0.9%	
51.9%	31	31	0	-0.9%	
53.1%	31	31	0	-0.8%	
54.3%	31	31	0	-1.3%	
55.6%	31	31	0	-1.1%	
56.8%	31	30	-1	-2.1%	
58.0%	31	30	-1	-1.5%	
59.3%	31	30	-1	-2.1%	
60.5%	31	30	-1	-2.0%	
61.7%	31	30	-1	-1.8%	
63.0%	31	30	-1	-1.8%	
64.2%	31	30	-1	-1.8%	
65.4%	30	30	0	-1.3%	
66.7%	30	30	0	-1.0%	
67.9%	30	30	0	-1.2%	
69.1%	30	30	0	-1.3%	
70.4%	30	30	0	-1.0%	
71.6%	30	30	-1	-1.6%	
72.8%	30	30	0	-1.6%	
74.1%	30	30	0	-1.5%	
75.3%	30	30	0	-1.5%	
76.5%	30	30	0	-1.6%	
77.8%	30	30	0	-1.3%	
79.0%	30	30	0	-1.1%	
80.2%	30	30	0	-1.0%	
81.5%	30	30	0	-0.9%	
82.7%	30	29	0	-0.6%	
84.0%	30	29	0	-0.6%	
85.2%	30	29	0	-0.6%	
86.4%	29	29	0	-0.3%	
87.7%	29	29	0	-0.3%	
88.9%	29	29	0	-0.5%	
90.1%	29	29	0	-0.7%	
91.4%	29	29	0	-1.1%	
92.6%	29	29	0	-1.1%	
93.8%	29	29	0	-1.2%	
95.1%	29	29	0	-1.0%	
96.3%	29	29	0	-1.2%	
97.5%	29	29	0	-1.0%	
98.8%	29	29	0	-0.6%	
100.0%	29	29	0	-0.1%	

March					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	44	44	0	0.0%	
1.2%	44	43	-1	-1.2%	
2.5%	40	40	0	-0.2%	
3.7%	39	39	0	0.0%	
4.9%	38	37	0	-0.7%	
6.2%	37	36	-1	-1.9%	
7.4%	36	36	-1	-1.9%	
8.6%	36	36	-1	-1.5%	
9.9%	36	36	0	-0.4%	
11.1%	36	35	-1	-2.0%	
12.3%	34	34	0	-0.3%	
13.6%	34	34	0	-0.3%	
14.8%	34	34	0	-0.6%	
16.0%	34	34	0	-0.1%	
17.3%	34	34	0	-0.7%	
18.5%	34	33	0	-0.6%	
19.8%	34	33	0	-0.8%	
21.0%	33	33	0	-0.7%	
22.2%	33	33	0	-1.0%	
23.5%	33	33	0	-0.7%	
24.7%	33	33	0	-0.1%	
25.9%	33	33	0	-0.2%	
27.2%	33	33	0	0.3%	
28.4%	33	32	0	-1.4%	
29.6%	32	32	-1	-1.5%	
30.9%	32	32	0	-1.5%	
32.1%	32	32	0	-0.6%	
33.3%	32	32	0	-0.7%	
34.6%	32	32	0	-0.7%	
35.8%	32	32	0	-0.8%	
37.0%	32	31	-1	-2.1%	
38.3%	32	31	-1	-2.5%	
39.5%	32	31	-1	-2.2%	
40.7%	32	31	-1	-2.2%	
42.0%	31	31	-1	-2.0%	
43.2%	31	31	-1	-1.9%	
44.4%	31	31	-1	-1.7%	
45.7%	31	31	-1	-1.7%	
46.9%	31	30	-1	-1.8%	
48.1%	31	30	-1	-1.8%	
49.4%	31	30	-1	-1.9%	
50.6%	31	30	-1	-2.0%	
51.9%	31	30	-1	-2.0%	
53.1%	31	30	-1	-2.1%	
54.3%	31	30	-1	-2.2%	
55.6%	31	30	-1	-1.8%	
56.8%	31	30	-1	-1.8%	
58.0%	31	30	-1	-1.8%	
59.3%	31	30	-1	-1.7%	
60.5%	30	30	0	-1.5%	
61.7%	30	30	0	-1.6%	
63.0%	30	30	-1	-1.8%	
64.2%	30	30	-1	-1.9%	
65.4%	30	30	-1	-1.8%	
66.7%	30	30	-1	-2.2%	
67.9%	30	30	-1	-2.2%	
69.1%	30	30	-1	-2.1%	
70.4%	30	30	-1	-1.9%	
71.6%	30	30	-1	-1.9%	
72.8%	30	30	-1	-1.8%	
74.1%	30	30	-1	-1.8%	
75.3%	30	30	0	-1.5%	
76.5%	30	29	0	-1.4%	
77.8%	30	29	0	-1.2%	
79.0%	30	29	0	-1.1%	
80.2%	30	29	0	-1.1%	
81.5%	30	29	0	-1.0%	
82.7%	30	29	0	-0.8%	
84.0%	30	29	0	-0.8%	
85.2%	30	29	0	-0.7%	
86.4%	29	29	0	-0.5%	
87.7%	29	29	0	-0.7%	
88.9%	29	29	0	-0.8%	
90.1%	29	29	0	-0.7%	
91.4%	29	29	0	-0.9%	
92.6%	29	29	0	-0.6%	
93.8%	29	29	0	-0.4%	
95.1%	29	29	0	0.0%	
96.3%	29	29	0	0.0%	
97.5%	29	29	0	-0.1%	
98.8%	29	29	0	0.0%	
100.0%	29	29	0	0.1%	

April					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	38	37	-1	-1.5%	
1.2%	36	36	0	0.0%	
2.5%	35	35	0	0.1%	
3.7%	34	34	0	0.0%	
4.9%	33	33	0	-0.2%	
6.2%	33	33	0	-1.4%	
7.4%	33	33	0	0.0%	
8.6%	33	33	0	-0.7%	
9.9%	32	32	0	0.0%	
11.1%	32	32	0	-0.8%	
12.3%	32	31	-1	-2.1%	
13.6%	32	31	-1	-2.0%	
14.8%	32	31	-1	-1.6%	
16.0%	32	31	0	-1.1%	
17.3%	32	31	0	-1.1%	
18.5%	31	31	0	-0.6%	
19.8%	31	31	0	-0.8%	
21.0%	31	31	0	-0.6%	
22.2%	31	31	0	-1.0%	
23.5%	31	31	0	-0.8%	
24.7%	31	31	0	-1.3%	
25.9%	31	31	0	-0.8%	
27.2%	31	31	0	-0.2%	
28.4%	30	30	0	0.5%	
29.6%	30	30	0	0.1%	
30.9%	30	30	0	-0.1%	
32.1%	30	30	0	-0.5%	
33.3%	30	30	0	-0.4%	
34.6%	30	30	0	-0.4%	
35.8%	30	30	0	-0.4%	
37.0%	30	30	0	-0.4%	
38.3%	30	30	0	-0.5%	
39.5%	30	30	0	-0.6%	
40.7%	30	30	0	-0.2%	
42.0%	30	30	0	-0.2%	
43.2%	30	30	0	0.0%	
44.4%	30	30	0	0.0%	
45.7%	30	30	0	0.1%	
46.9%	30	30	0	0.1%	
48.1%	30	30	0	-0.1%	
49.4%	30	30	0	0.0%	
50.6%	30	30	0	0.1%	
51.9%	30	30	0	0.0%	
53.1%	30	29	0	-0.2%	
54.3%	30	29	0	-0.2%	
55.6%	30	29	0	-0.1%	
56.8%	30	29	0	-0.1%	
58.0%	29	29	0	0.0%	
59.3%	29	29	0	0.0%	
60.5%	29	29	0	0.1%	
61.7%	29	29	0	0.0%	
63.0%	29	29	0	-0.1%	
64.2%	29	29	0	-0.1%	
65.4%	29	29	0	-0.1%	
66.7%	29	29	0	-0.1%	
67.9%	29	29	0	0.0%	
69.1%	29	29	0	0.0%	
70.4%	29	29	0	0.1%	
71.6%	29	29	0	0.0%	
72.8%	29	29	0	0.0%	
74.1%	29	29	0	0.0%	
75.3%	29	29	0	0.0%	
76.5%	29	29	0	0.0%	
77.8%	29	29	0	0.0%	
79.0%	29	29	0	0.0%	
80.2%	29	29	0	0.0%	
81.5%	29	29	0	-0.1%	
82.7%	29	29	0	-0.3%	
84.0%	29	29	0	-0.2%	
85.2%	29	29	0	-0.1%	
86.4%	29	29	0	-0.1%	
87.7%	29	29	0	-0.1%	
88.9%	29	29	0	-0.1%	
90.1%	29	29	0	0.0%	
91.4%	29	29	0	0.0%	
92.6%	29	29	0	0.0%	
93.8%	29	29	0	0.0%	
95.1%	29	29	0	0.2%	
96.3%	29	29	0	0.6%	
97.5%	29	29	0	0.5%	
98.8%	29	29	0	0.4%	
100.0%	29	29	0	0.2%	

May					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	33	32	0	-0.5%	
1.2%	32	32	0	-0.3%	
2.5%	32	32	0	-0.4%	
3.7%	32	32	0	-1.5%	
4.9%	32	31	0	-0.3%	
6.2%	31	31	0	-0.1%	
7.4%	31	31	0	-1.3%	
8.6%	31	31	0	-0.3%	
9.9%	31	31	0	-0.3%	
11.1%	30	30	0		

Table SW-54-b  
Sacramento River below Hamilton City, Monthly Stage  
Probability of Exceedance

June					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	31	31	0	0.3%	
1.2%	31	31	0	0.3%	
2.5%	31	31	0	0.6%	
3.7%	31	31	0	0.3%	
4.9%	31	31	0	0.1%	
6.2%	31	31	0	0.1%	
7.4%	31	31	0	0.0%	
8.6%	31	31	0	-0.1%	
9.9%	31	31	0	-0.4%	
11.1%	31	31	0	-0.3%	
12.3%	31	31	0	-0.1%	
13.6%	31	31	0	-0.2%	
14.8%	31	31	0	-0.3%	
16.0%	31	31	0	-0.3%	
17.3%	31	30	0	-0.5%	
18.5%	31	30	0	-0.4%	
19.8%	31	30	0	-0.4%	
21.0%	31	30	0	-0.4%	
22.2%	31	30	0	-0.4%	
23.5%	30	30	0	-0.4%	
24.7%	30	30	0	-0.6%	
25.9%	30	30	0	-0.5%	
27.2%	30	30	0	-0.4%	
28.4%	30	30	0	-0.5%	
29.6%	30	30	0	-0.5%	
30.9%	30	30	0	-0.5%	
32.1%	30	30	0	-0.5%	
33.3%	30	30	0	-0.5%	
34.6%	30	30	0	-0.5%	
35.8%	30	30	0	-0.4%	
37.0%	30	30	0	-0.5%	
38.3%	30	30	0	-0.5%	
39.5%	30	30	0	-0.5%	
40.7%	30	30	0	-0.4%	
42.0%	30	30	0	-0.3%	
43.2%	30	30	0	-0.4%	
44.4%	30	30	0	-0.3%	
45.7%	30	30	0	-0.3%	
46.9%	30	30	0	-0.3%	
48.1%	30	30	0	-0.2%	
49.4%	30	30	0	-0.3%	
50.6%	30	30	0	-0.2%	
51.9%	30	30	0	-0.2%	
53.1%	30	30	0	-0.2%	
54.3%	30	30	0	-0.2%	
55.6%	30	30	0	-0.1%	
56.8%	30	30	0	-0.1%	
58.0%	30	30	0	-0.1%	
59.3%	30	30	0	-0.1%	
60.5%	30	30	0	0.0%	
61.7%	30	30	0	0.0%	
63.0%	30	30	0	0.0%	
64.2%	30	30	0	0.0%	
65.4%	30	30	0	0.0%	
66.7%	30	30	0	0.0%	
67.9%	30	30	0	0.1%	
69.1%	30	30	0	0.1%	
70.4%	30	30	0	0.0%	
71.6%	30	30	0	-0.1%	
72.8%	30	30	0	0.0%	
74.1%	30	30	0	0.0%	
75.3%	30	30	0	0.0%	
76.5%	30	30	0	0.0%	
77.8%	30	30	0	0.0%	
79.0%	30	30	0	0.0%	
80.2%	30	30	0	0.0%	
81.5%	30	30	0	0.0%	
82.7%	30	30	0	-0.1%	
84.0%	30	30	0	0.0%	
85.2%	30	30	0	0.0%	
86.4%	30	30	0	0.1%	
87.7%	30	30	0	0.0%	
88.9%	30	30	0	0.0%	
90.1%	30	30	0	0.0%	
91.4%	30	30	0	-0.2%	
92.6%	30	30	0	-0.2%	
93.8%	30	29	0	-0.5%	
95.1%	30	29	0	-0.5%	
96.3%	30	29	0	-0.4%	
97.5%	29	29	0	-0.2%	
98.8%	29	29	0	0.2%	
100.0%	29	29	0	0.3%	

July					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	31	32	1	3.3%	
1.2%	31	32	1	3.1%	
2.5%	31	31	0	0.5%	
3.7%	31	31	0	0.8%	
4.9%	31	31	0	0.7%	
6.2%	31	31	0	0.6%	
7.4%	31	31	0	0.6%	
8.6%	31	31	0	0.7%	
9.9%	31	31	0	0.7%	
11.1%	31	31	0	0.7%	
12.3%	31	31	0	0.7%	
13.6%	31	31	0	0.6%	
14.8%	31	31	0	0.7%	
16.0%	31	31	0	0.7%	
17.3%	31	31	0	0.6%	
18.5%	31	31	0	0.6%	
19.8%	31	31	0	0.6%	
21.0%	31	31	0	0.6%	
22.2%	31	31	0	0.5%	
23.5%	31	31	0	0.5%	
24.7%	31	31	0	0.5%	
25.9%	31	31	0	0.4%	
27.2%	31	31	0	0.4%	
28.4%	31	31	0	0.5%	
29.6%	31	31	0	0.4%	
30.9%	31	31	0	0.4%	
32.1%	31	31	0	0.4%	
33.3%	31	31	0	0.3%	
34.6%	31	31	0	0.3%	
35.8%	31	31	0	0.3%	
37.0%	31	31	0	0.3%	
38.3%	31	31	0	0.3%	
39.5%	31	31	0	0.3%	
40.7%	31	31	0	0.3%	
42.0%	31	31	0	0.3%	
43.2%	31	31	0	0.3%	
44.4%	31	31	0	0.2%	
45.7%	31	31	0	0.3%	
46.9%	31	31	0	0.3%	
48.1%	31	31	0	0.2%	
49.4%	31	31	0	0.2%	
50.6%	31	31	0	0.2%	
51.9%	31	31	0	0.1%	
53.1%	31	31	0	0.1%	
54.3%	31	31	0	0.1%	
55.6%	31	31	0	0.1%	
56.8%	31	31	0	0.2%	
58.0%	31	31	0	0.1%	
59.3%	31	31	0	0.0%	
60.5%	31	31	0	0.0%	
61.7%	31	31	0	-0.1%	
63.0%	31	31	0	-0.4%	
64.2%	31	31	0	-0.3%	
65.4%	31	31	0	-0.4%	
66.7%	31	31	0	-0.4%	
67.9%	31	31	0	-0.4%	
69.1%	31	31	0	-0.5%	
70.4%	31	31	0	-0.5%	
71.6%	31	31	0	-0.5%	
72.8%	31	30	0	-0.4%	
74.1%	31	30	0	-0.4%	
75.3%	31	30	0	-0.4%	
76.5%	30	30	0	-0.2%	
77.8%	30	30	0	-0.2%	
79.0%	30	30	0	-0.3%	
80.2%	30	30	0	-0.3%	
81.5%	30	30	0	-0.2%	
82.7%	30	30	0	0.0%	
84.0%	30	30	0	0.2%	
85.2%	30	30	0	0.1%	
86.4%	30	30	0	0.3%	
87.7%	30	30	0	0.3%	
88.9%	30	30	0	0.3%	
90.1%	30	30	0	0.4%	
91.4%	30	30	0	0.3%	
92.6%	30	30	0	0.3%	
93.8%	30	30	0	0.3%	
95.1%	30	30	0	0.7%	
96.3%	30	30	0	0.6%	
97.5%	29	30	0	1.0%	
98.8%	29	30	1	1.1%	
100.0%	30	30	0	0.6%	

August					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	31	31	0	0.0%	
1.2%	31	31	0	-0.4%	
2.5%	31	31	0	-0.2%	
3.7%	31	30	0	-0.4%	
4.9%	31	30	0	-0.4%	
6.2%	31	30	0	-0.6%	
7.4%	30	30	0	-0.5%	
8.6%	30	30	0	-0.4%	
9.9%	30	30	0	-0.4%	
11.1%	30	30	0	-0.5%	
12.3%	30	30	0	-0.5%	
13.6%	30	30	0	-0.3%	
14.8%	30	30	0	-0.2%	
16.0%	30	30	0	-0.2%	
17.3%	30	30	0	-0.1%	
18.5%	30	30	0	-0.2%	
19.8%	30	30	0	-0.2%	
21.0%	30	30	0	-0.1%	
22.2%	30	30	0	-0.1%	
23.5%	30	30	0	0.0%	
24.7%	30	30	0	-0.1%	
25.9%	30	30	0	-0.1%	
27.2%	30	30	0	-0.2%	
28.4%	30	30	0	-0.2%	
29.6%	30	30	0	-0.1%	
30.9%	30	30	0	-0.1%	
32.1%	30	30	0	-0.1%	
33.3%	30	30	0	-0.1%	
34.6%	30	30	0	-0.1%	
35.8%	30	30	0	-0.2%	
37.0%	30	30	0	0.0%	
38.3%	30	30	0	0.0%	
39.5%	30	30	0	0.0%	
40.7%	30	30	0	0.2%	
42.0%	30	30	0	0.2%	
43.2%	30	30	0	0.2%	
44.4%	30	30	0	0.3%	
45.7%	30	30	0	0.3%	
46.9%	30	30	0	0.2%	
48.1%	30	30	0	0.3%	
49.4%	30	30	0	0.3%	
50.6%	30	30	0	0.3%	
51.9%	30	30	0	0.3%	
53.1%	30	30	0	0.3%	
54.3%	30	30	0	0.4%	
55.6%	30	30	0	0.4%	
56.8%	30	30	0	0.3%	
58.0%	30	30	0	0.3%	
59.3%	30	30	0	0.3%	
60.5%	30	30	0	0.4%	
61.7%	30	30	0	0.4%	
63.0%	30	30	0	0.4%	
64.2%	30	30	0	0.5%	
65.4%	30	30	0	0.5%	
66.7%	30	30	0	0.5%	
67.9%	30	30	0	0.4%	
69.1%	30	30	0	0.6%	
70.4%	30	30	0	0.6%	
71.6%	30	30	0	0.6%	
72.8%	30	30	0	0.7%	
74.1%	30	30	0	0.7%	
75.3%	30	30	0	0.7%	
76.5%	30	30	0	0.7%	
77.8%	30	30	0	0.7%	
79.0%	30	30	0	0.7%	
80.2%	30	30	0	0.8%	
81.5%	29	30	0	0.8%	
82.7%	29	30	0	0.9%	
84.0%	29	30	0	0.9%	
85.2%	29	30	0	0.9%	
86.4%	29	30	0	0.9%	
87.7%	29	30	0	0.9%	
88.9%	29	30	0	0.7%	
90.1%	29	30	0	0.9%	
91.4%	29	30	0	1.0%	
92.6%	29	30	0	0.9%	
93.8%	29	30	0	0.3%	
95.1%	29	30	0	1.0%	
96.3%	29	30	0	0.9%	
97.5%	29	30	0	0.9%	
98.8%	29	30	0	0.9%	
100.0%	29	29	0	1.7%	

September					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	32	32	0	-0.1%	
1.2%	32	32	0	-0.1%	
2.5%	32	32	0	-0.2%	
3.7%	32	32	0	-0.3%	
4.9%	32	32	0	-0.2%	
6.2%	32	32	0	-0.2%	
7.4%	32	32	0</		

**Figure SW-56-b**  
**Sacramento River at Wilkins Slough, Monthly Stage**  
**Probability of Exceedance**

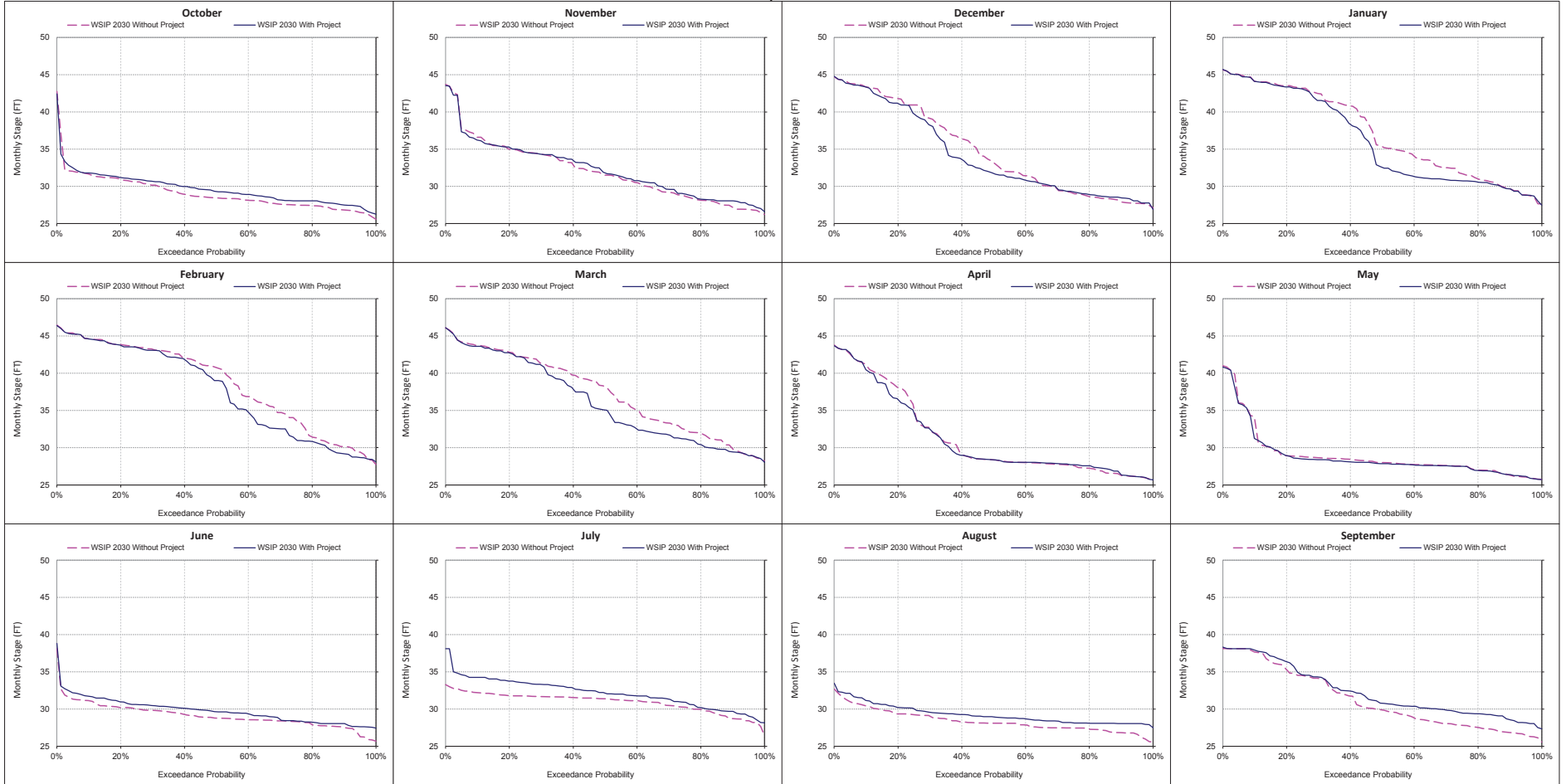


Table SW-56-b  
Sacramento River at Wilkins Slough, Monthly Stage  
Probability of Exceedance

October				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	43	42	0	-0.8%
1.2%	37	34	-3	-7.3%
2.5%	32	33	1	3.4%
3.7%	32	33	1	2.4%
4.9%	32	33	0	1.5%
6.2%	32	32	0	0.8%
7.4%	32	32	0	0.1%
8.6%	32	32	0	0.1%
9.9%	32	32	0	0.4%
11.1%	31	32	0	1.0%
12.3%	31	32	0	1.2%
13.6%	31	32	0	0.9%
14.8%	31	32	0	1.0%
16.0%	31	31	0	0.8%
17.3%	31	31	0	0.7%
18.5%	31	31	0	0.7%
19.8%	31	31	0	0.7%
21.0%	31	31	0	1.0%
22.2%	31	31	0	1.0%
23.5%	31	31	0	1.1%
24.7%	31	31	0	1.0%
25.9%	31	31	0	1.0%
27.2%	30	31	0	1.5%
28.4%	30	31	0	1.2%
29.6%	30	31	1	1.9%
30.9%	30	31	0	1.5%
32.1%	30	31	1	2.2%
33.3%	30	31	1	2.5%
34.6%	30	30	1	2.8%
35.8%	29	30	1	3.1%
37.0%	29	30	1	3.0%
38.3%	29	30	1	3.4%
39.5%	29	30	1	3.6%
40.7%	29	30	1	3.7%
42.0%	29	30	1	3.8%
43.2%	29	30	1	3.9%
44.4%	29	30	1	3.5%
45.7%	29	30	1	3.4%
46.9%	29	30	1	3.6%
48.1%	28	29	1	3.5%
49.4%	28	29	1	3.1%
50.6%	28	29	1	2.9%
51.9%	28	29	1	3.0%
53.1%	28	29	1	3.1%
54.3%	28	29	1	2.8%
55.6%	28	29	1	2.6%
56.8%	28	29	1	2.7%
58.0%	28	29	1	2.6%
59.3%	28	29	1	2.7%
60.5%	28	29	1	2.8%
61.7%	28	29	1	2.6%
63.0%	28	29	1	2.3%
64.2%	28	29	1	2.5%
65.4%	28	29	1	2.5%
66.7%	28	29	1	3.0%
67.9%	28	29	1	2.6%
69.1%	28	28	1	2.1%
70.4%	28	28	1	2.0%
71.6%	28	28	1	2.0%
72.8%	28	28	1	2.0%
74.1%	28	28	1	2.0%
75.3%	27	28	1	2.0%
76.5%	27	28	1	2.2%
77.8%	27	28	1	2.2%
79.0%	27	28	1	2.2%
80.2%	27	28	1	2.4%
81.5%	27	28	1	2.4%
82.7%	27	28	1	2.1%
84.0%	27	28	1	2.2%
85.2%	27	28	1	2.3%
86.4%	27	28	1	3.0%
87.7%	27	28	1	2.9%
88.9%	27	28	1	2.5%
90.1%	27	27	1	2.4%
91.4%	27	27	1	2.5%
92.6%	27	27	1	2.6%
93.8%	27	27	1	2.8%
95.1%	26	27	1	3.1%
96.3%	26	27	0	1.8%
97.5%	26	27	0	1.4%
98.8%	26	26	1	2.0%
100.0%	26	26	1	2.8%

November				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	44	44	0	-0.4%
1.2%	44	43	0	0.0%
2.5%	43	42	0	-0.5%
3.7%	42	42	0	-0.2%
4.9%	38	37	0	-0.9%
6.2%	38	37	0	-1.2%
7.4%	37	37	-1	-1.9%
8.6%	37	37	-1	-1.7%
9.9%	37	36	0	-1.0%
11.1%	37	36	0	-1.3%
12.3%	36	36	0	-1.1%
13.6%	36	36	0	-0.3%
14.8%	35	36	0	0.3%
16.0%	35	35	0	0.0%
17.3%	35	35	0	-0.3%
18.5%	35	35	0	-0.2%
19.8%	35	35	0	0.8%
21.0%	35	35	0	0.3%
22.2%	35	35	0	0.2%
23.5%	35	35	0	0.5%
24.7%	35	35	0	0.3%
25.9%	35	35	0	0.0%
27.2%	34	34	0	-0.3%
28.4%	34	34	0	0.0%
29.6%	34	34	0	0.0%
30.9%	34	34	0	0.0%
32.1%	34	34	0	0.3%
33.3%	34	34	0	0.6%
34.6%	34	34	0	0.0%
35.8%	33	34	0	1.2%
37.0%	33	34	1	1.2%
38.3%	33	34	0	1.3%
39.5%	33	34	0	1.4%
40.7%	32	33	1	2.5%
42.0%	32	33	1	2.4%
43.2%	32	33	1	2.6%
44.4%	32	33	1	2.9%
45.7%	32	33	1	2.1%
46.9%	32	32	1	1.7%
48.1%	32	32	1	1.8%
49.4%	32	32	0	1.2%
50.6%	31	32	0	0.6%
51.9%	31	32	0	0.5%
53.1%	31	32	0	0.6%
54.3%	31	31	0	0.6%
55.6%	31	31	0	1.3%
56.8%	31	31	0	0.8%
58.0%	31	31	0	0.8%
59.3%	31	31	0	0.8%
60.5%	30	31	0	1.0%
61.7%	30	31	1	1.8%
63.0%	30	31	1	1.7%
64.2%	30	30	1	1.8%
65.4%	30	30	1	2.7%
66.7%	30	30	0	1.7%
67.9%	30	30	1	2.4%
69.1%	29	30	0	1.4%
70.4%	29	30	0	1.4%
71.6%	29	30	1	1.7%
72.8%	29	29	0	0.7%
74.1%	29	29	0	0.7%
75.3%	29	29	0	1.0%
76.5%	29	29	0	1.1%
77.8%	29	29	0	1.4%
79.0%	28	28	0	0.5%
80.2%	28	28	0	0.9%
81.5%	28	28	0	0.4%
82.7%	28	28	0	0.5%
84.0%	28	28	0	0.7%
85.2%	28	28	0	1.0%
86.4%	28	28	1	1.9%
87.7%	27	28	1	2.1%
88.9%	27	28	1	2.1%
90.1%	27	28	1	3.3%
91.4%	27	28	1	3.5%
92.6%	27	28	1	3.3%
93.8%	27	28	1	3.3%
95.1%	27	28	1	2.2%
96.3%	27	27	1	2.4%
97.5%	27	27	0	1.5%
98.8%	27	27	1	2.0%
100.0%	26	27	0	1.4%

December				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	45	45	0	0.2%
1.2%	44	44	0	0.0%
2.5%	44	44	0	0.0%
3.7%	44	44	0	-0.6%
4.9%	44	44	0	0.0%
6.2%	44	44	0	-0.4%
7.4%	44	44	0	-0.2%
8.6%	44	43	0	-0.4%
9.9%	43	43	0	0.0%
11.1%	43	43	0	-0.2%
12.3%	43	42	-1	-1.6%
13.6%	43	42	-1	-2.0%
14.8%	42	42	0	-1.0%
16.0%	42	42	0	-0.6%
17.3%	42	41	-1	-1.7%
18.5%	42	41	-1	-1.7%
19.8%	42	41	-1	-1.5%
21.0%	42	41	-1	-1.9%
22.2%	41	41	0	0.0%
23.5%	41	43	0	-0.2%
24.7%	41	40	-1	-2.6%
25.9%	41	39	-1	-3.6%
27.2%	41	39	-2	-4.1%
28.4%	39	39	0	-0.9%
29.6%	39	38	-1	-2.2%
30.9%	39	38	-1	-2.5%
32.1%	38	37	-2	-3.9%
33.3%	38	36	-2	-4.7%
34.6%	38	36	-2	-5.0%
35.8%	37	34	-3	-8.3%
37.0%	37	34	-3	-7.9%
38.3%	37	34	-3	-7.9%
39.5%	36	34	-3	-7.3%
40.7%	36	33	-3	-8.0%
42.0%	36	33	-3	-9.1%
43.2%	36	33	-3	-7.8%
44.4%	35	33	-3	-7.6%
45.7%	34	32	-2	-5.1%
46.9%	34	32	-2	-5.5%
48.1%	34	32	-2	-4.9%
49.4%	33	32	-2	-4.6%
50.6%	33	32	-1	-4.1%
51.9%	33	32	-1	-3.1%
53.1%	32	32	0	-1.5%
54.3%	32	31	-1	-2.2%
55.6%	32	31	-1	-2.3%
56.8%	32	31	-1	-2.8%
58.0%	32	31	-1	-2.3%
59.3%	31	31	-1	-1.7%
60.5%	31	31	-1	-2.1%
61.7%	31	31	-1	-2.1%
63.0%	31	31	0	-1.4%
64.2%	30	30	0	0.2%
65.4%	30	30	0	0.7%
66.7%	30	30	0	0.5%
67.9%	30	30	0	0.3%
69.1%	30	30	0	0.3%
70.4%	30	30	0	0.3%
71.6%	29	29	0	0.3%
72.8%	29	29	0	0.1%
74.1%	29	29	0	0.4%
75.3%	29	29	0	0.8%
76.5%	29	29	0	0.5%
77.8%	29	29	0	0.4%
79.0%	29	29	0	0.8%
80.2%	29	29	0	0.9%
81.5%	29	29	0	1.0%
82.7%	28	29	0	0.8%
84.0%	28	29	0	1.1%
85.2%	28	29	0	0.9%
86.4%	28	29	0	0.8%
87.7%	28	29	0	1.0%
88.9%	28	29	0	1.3%
90.1%	28	28	1	1.9%
91.4%	28	28	1	2.1%
92.6%	28	28	1	2.1%
93.8%	28	28	0	1.2%
95.1%	28	28	1	1.2%
96.3%	28	28	0	0.3%
97.5%	28	28	0	0.4%
98.8%	28	27	0	1.2%
100.0%	27	27	0	-0.9%

January				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	46	46	0	0.1%
1.2%	45	45	0	0.0%
2.5%	45	45	0	0.0%
3.7%	45	45	0	-0.2%
4.9%	45	45	0	0.0%
6.2%	45	45	0	-0.4%
7.4%	45	45	0	0.0%
8.6%	45	45	0	-0.2%
9.9%	44	44	0	0.0%
11.1%	44	44	0	0.0%
12.3%	44	44	0	-0.2%
13.6%	44	44	0	-0.2%
14.8%	44	44	0	-0.2%
16.0%	44	44	0	-0.6%
17.3%	44	44	0	-0.2%
18.5%	44	43	0	-0.2%
19.8%	44	43	0	-0.4%
21.0%	44	43	0	-0.4%
22.2%	43	43	0	-0.4%
23.5%	43	43	0	-0.2%
24.7%	43	43	0	-0.2%
25.9%	43	43	0	-0.6%
27.2%	43	43	0	-0.2%
28.4%	43	42	-1	-1.6%
29.6%	42	42	-1	-2.2%
30.9%	42	42	-1	-2.0%
32.1%	42	41	0	-0.4%
33.3%	41	41	-1	-1.5%
34.6%	41	40	-1	-2.3%
35.8%	41	40	-1	-2.6%
37.0%	41	40	-1	-3.4%
38.3%	41	39	-2	-4.1%
39.5%	41	38	-2	-5.8%
40.7%	41	38	-3	-6.5%
42.0%	40	3		

Table SW-56-b  
Sacramento River at Wilkins Slough, Monthly Stage

February				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	46	46	0	-0.2%
1.2%	46	46	0	-0.2%
2.5%	45	45	0	0.0%
3.7%	45	45	0	-0.2%
4.9%	45	45	0	-0.3%
6.2%	45	45	0	0.2%
7.4%	45	45	0	0.0%
8.6%	45	45	0	0.0%
9.9%	45	45	0	0.0%
11.1%	45	45	0	0.0%
12.3%	45	44	0	-0.2%
13.6%	45	44	0	-0.3%
14.8%	44	44	0	-0.2%
16.0%	44	44	0	-0.2%
17.3%	44	44	0	0.0%
18.5%	44	44	0	0.0%
19.8%	44	44	0	-0.2%
21.0%	44	44	0	-0.6%
22.2%	44	44	0	-0.4%
23.5%	44	44	0	-0.4%
24.7%	44	44	0	0.0%
25.9%	43	43	0	-0.2%
27.2%	43	43	0	-0.6%
28.4%	43	43	0	-0.4%
29.6%	43	43	0	-0.4%
30.9%	43	43	0	0.0%
32.1%	43	43	0	-0.2%
33.3%	43	43	0	-1.0%
34.6%	43	42	-1	-1.6%
35.8%	43	42	-1	-1.6%
37.0%	43	42	0	-1.0%
38.3%	43	42	-1	-1.2%
39.5%	42	42	0	-0.2%
40.7%	42	42	0	-0.8%
42.0%	42	41	-1	-1.9%
43.2%	42	41	-1	-1.7%
44.4%	41	41	-1	-1.7%
45.7%	41	40	-1	-1.5%
46.9%	41	40	-1	-3.0%
48.1%	41	40	-1	-3.6%
49.4%	41	39	-2	-4.5%
50.6%	41	39	-2	-4.1%
51.9%	40	39	-2	-3.9%
53.1%	40	38	-2	-6.6%
54.3%	39	36	-3	-8.4%
55.6%	39	36	-3	-7.0%
56.8%	38	35	-3	-8.1%
58.0%	37	35	-2	-6.0%
59.3%	37	35	-2	-4.8%
60.5%	37	35	-2	-6.3%
61.7%	37	34	-3	-7.0%
63.0%	36	33	-3	-8.3%
64.2%	36	33	-3	-8.1%
65.4%	36	33	-3	-8.1%
66.7%	36	33	-3	-8.2%
67.9%	35	33	-3	-8.1%
69.1%	35	33	-2	-6.2%
70.4%	35	33	-2	-6.3%
71.6%	35	33	-2	-5.8%
72.8%	34	32	-2	-7.1%
74.1%	34	31	-3	-7.7%
75.3%	34	31	-3	-7.7%
76.5%	33	31	-2	-7.0%
77.8%	33	31	-2	-5.2%
79.0%	32	31	-1	-2.4%
80.2%	31	31	-1	-1.8%
81.5%	31	31	-1	-2.2%
82.7%	31	30	-1	-1.8%
84.0%	31	30	-1	-1.9%
85.2%	31	30	-1	-2.4%
86.4%	30	30	-1	-2.9%
87.7%	30	29	-1	-3.5%
88.9%	30	29	-1	-3.0%
90.1%	30	29	-1	-3.2%
91.4%	30	29	-1	-3.3%
92.6%	30	29	-1	-4.0%
93.8%	29	29	-1	-2.3%
95.1%	29	29	-1	-2.5%
96.3%	29	29	0	-1.5%
97.5%	28	28	0	0.4%
98.8%	28	28	0	0.1%
100.0%	28	28	0	1.3%

March				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	46	46	0	0.0%
1.2%	46	46	0	-0.2%
2.5%	45	45	0	-0.2%
3.7%	44	44	0	0.0%
4.9%	44	44	0	-0.2%
6.2%	44	44	0	-0.6%
7.4%	44	44	0	-0.6%
8.6%	44	44	0	-0.9%
9.9%	44	44	0	-0.4%
11.1%	44	44	0	-0.2%
12.3%	44	43	0	-0.6%
13.6%	43	43	0	-0.2%
14.8%	43	43	0	-0.6%
16.0%	43	43	0	-0.4%
17.3%	43	43	0	-0.2%
18.5%	43	43	0	-0.8%
19.8%	43	43	0	-0.2%
21.0%	43	43	0	-0.4%
22.2%	42	42	0	0.0%
23.5%	42	42	0	0.0%
24.7%	42	42	0	-0.2%
25.9%	42	41	-1	-1.5%
27.2%	42	41	-1	-1.5%
28.4%	42	41	-1	-1.7%
29.6%	41	41	0	-0.4%
30.9%	41	41	0	-1.1%
32.1%	41	40	-1	-2.8%
33.3%	41	40	-1	-3.0%
34.6%	41	39	-2	-3.4%
35.8%	41	39	-2	-3.7%
37.0%	40	39	-1	-3.7%
38.3%	40	38	-2	-4.8%
39.5%	40	38	-2	-4.2%
40.7%	37	37	-2	-5.5%
42.0%	39	37	-2	-4.7%
43.2%	39	37	-2	-4.5%
44.4%	39	37	-2	-4.7%
45.7%	39	36	-3	-8.8%
46.9%	39	35	-4	-9.5%
48.1%	38	35	-3	-8.3%
49.4%	38	35	-3	-8.4%
50.6%	38	35	-3	-8.0%
51.9%	37	34	-3	-8.4%
53.1%	37	33	-4	-9.6%
54.3%	36	33	-3	-7.6%
55.6%	36	33	-3	-8.0%
56.8%	36	33	-3	-8.5%
58.0%	35	33	-2	-7.0%
59.3%	35	33	-2	-7.0%
60.5%	35	32	-3	-7.6%
61.7%	34	32	-2	-5.3%
63.0%	34	32	-2	-5.4%
64.2%	34	32	-2	-5.1%
65.4%	34	32	-2	-5.2%
66.7%	34	32	-2	-5.1%
67.9%	33	32	-2	-4.8%
69.1%	33	32	-2	-4.6%
70.4%	33	32	-2	-4.9%
71.6%	33	31	-2	-5.2%
72.8%	33	31	-2	-5.1%
74.1%	33	31	-1	-4.2%
75.3%	32	31	-1	-3.8%
76.5%	32	31	-1	-3.3%
77.8%	32	31	-1	-3.4%
79.0%	32	30	-2	-4.8%
80.2%	32	30	-2	-4.7%
81.5%	32	30	-2	-5.0%
82.7%	31	30	-1	-4.0%
84.0%	31	30	-1	-3.8%
85.2%	31	30	-1	-3.9%
86.4%	31	30	-1	-4.0%
87.7%	30	30	-1	-1.9%
88.9%	30	29	-1	-2.9%
90.1%	30	29	0	-1.2%
91.4%	30	29	0	-0.6%
92.6%	29	29	0	-0.1%
93.8%	29	29	0	0.2%
95.1%	29	29	0	-0.6%
96.3%	29	29	0	0.1%
97.5%	29	29	0	0.3%
98.8%	29	29	0	0.1%
100.0%	28	28	0	-0.7%

April				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	44	44	0	-0.2%
1.2%	43	43	0	0.0%
2.5%	43	43	0	0.0%
3.7%	43	43	0	0.2%
4.9%	43	43	0	0.4%
6.2%	42	42	0	0.0%
7.4%	42	42	0	0.0%
8.6%	41	42	0	0.2%
9.9%	41	40	-1	-1.7%
11.1%	40	40	0	-0.9%
12.3%	40	40	0	-0.7%
13.6%	40	39	-1	-3.0%
14.8%	40	39	-1	-2.4%
16.0%	39	39	-1	-2.0%
17.3%	39	37	-2	-4.3%
18.5%	39	37	-2	-4.9%
19.8%	38	37	-2	-4.0%
21.0%	38	36	-2	-5.3%
22.2%	36	36	-2	-4.6%
23.5%	37	35	-1	-3.5%
24.7%	36	35	-1	-2.1%
25.9%	34	34	0	0.3%
27.2%	33	33	0	1.2%
28.4%	33	33	0	-0.2%
29.6%	33	33	0	-0.4%
30.9%	32	32	0	0.2%
32.1%	32	32	0	-0.4%
33.3%	31	31	0	0.0%
34.6%	31	31	0	-0.9%
35.8%	31	30	0	-1.6%
37.0%	31	30	-1	-3.3%
38.3%	30	29	-1	-4.0%
39.5%	29	29	0	-0.9%
40.7%	29	29	0	-0.2%
42.0%	29	29	0	0.1%
43.2%	29	29	0	0.4%
44.4%	28	29	0	-0.7%
45.7%	28	29	0	0.1%
46.9%	28	28	0	0.1%
48.1%	28	28	0	0.0%
49.4%	28	28	0	0.1%
50.6%	28	28	0	0.1%
51.9%	28	28	0	0.0%
53.1%	28	28	0	-0.6%
54.3%	28	28	0	-0.2%
55.6%	28	28	0	-0.2%
56.8%	28	28	0	0.1%
58.0%	28	28	0	0.1%
59.3%	28	28	0	0.1%
60.5%	28	28	0	0.2%
61.7%	28	28	0	0.3%
63.0%	28	28	0	0.3%
64.2%	28	28	0	0.2%
65.4%	28	28	0	0.2%
66.7%	28	28	0	0.3%
67.9%	28	28	0	0.3%
69.1%	28	28	0	0.4%
70.4%	28	28	0	0.3%
71.6%	28	28	0	0.3%
72.8%	28	28	0	0.4%
74.1%	28	28	0	0.4%
75.3%	28	28	0	0.4%
76.5%	27	28	0	1.2%
77.8%	27	28	0	1.0%
79.0%	27	28	0	1.1%
80.2%	27	27	0	1.2%
81.5%	27	27	0	0.8%
82.7%	27	27	0	1.5%
84.0%	27	27	0	1.4%
85.2%	27	1	2	2.2%
86.4%	27	1	2	2.0%
87.7%	27	27	0	1.2%
88.9%	27	27	0	1.2%
90.1%	26	26	0	0.3%
91.4%	26	26	0	0.4%
92.6%	26	26	0	0.2%
93.8%	26	26	0	0.2%
95.1%	26	26	0	-0.1%
96.3%	26	26	0	0.0%
97.5%	26	26	0	0.1%
98.8%	26	26	0	-0.2%
100.0%	26	26	0	-0.1%

May				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	41	41	0	-0.4%
1.2%	41	41	0	-0.4%
2.5%	40	40	0	0.0%
3.7%	40	38	-2	-4.4%
4.9%	36	36	0	-4.2%
6.2%	36	36	0	-0.5%
7.4%	35	35	0	-0.3%
8.6%	34	34	0	-0.3%
9.9%	34	31	-3	-8.6%
11.1%	31	31	0	0.9%
12.3%	30	31	0	1.2%
13.6%	30	30	0	0.0%
14.8%	30	30	0	0.2%
16.0%	30	30	0	0.6%
17.3%	30	30	0	-0.1%
18.5%	29	29	0	1.0%
19.8%	29	29	0	0.2%
21.0%	29	29	0	-0.1%
22.2%	29	29	0	-0.9%
23.5%	29	29	0	-1.0%
24.7%	29	29	0	-1.1%
25.9%	29	28	0	-1.0%
27.2%	29	28	0	-1.0%
28.4%	29	28	0	-1.0%
29.6%	29	28	0	-1.0%
30.9%	29	28	0	-0.8%
32.1%	29	28	0	-0.8%
33.3%	29	28	0	-0.7%
34.6%	29	28	0	-1.2%
35.8%	29	28	0	-1.2%
37.0%	29	28	0	-1.1%
38.3%	28	28	0	-1.2%
39.5%	28	28	0	-1.2%
40.7%	28	28	0	-1.2%
42.0%	28	28	0	

Table SW-56-b  
Sacramento River at Wilkins Slough, Monthly Stage  
Probability of Exceedance

June					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	38	39	1	1.9%	
1.2%	33	33	0	1.1%	
2.5%	32	33	1	2.7%	
3.7%	32	32	1	2.8%	
4.9%	31	32	1	2.7%	
6.2%	31	32	1	2.7%	
7.4%	31	32	1	2.4%	
8.6%	31	32	1	2.0%	
9.9%	31	32	1	1.9%	
11.1%	31	32	1	2.0%	
12.3%	31	31	1	2.6%	
13.6%	30	31	1	3.4%	
14.8%	30	31	1	3.4%	
16.0%	30	31	1	3.0%	
17.3%	30	31	1	2.8%	
18.5%	30	31	1	2.8%	
19.8%	30	31	1	2.5%	
21.0%	30	31	1	2.5%	
22.2%	30	31	1	1.7%	
23.5%	30	31	0	1.6%	
24.7%	30	31	1	2.0%	
25.9%	30	31	1	2.1%	
27.2%	30	31	1	2.4%	
28.4%	30	31	1	2.4%	
29.6%	30	30	1	2.4%	
30.9%	30	30	1	2.1%	
32.1%	30	30	1	2.0%	
33.3%	30	30	1	2.2%	
34.6%	30	30	1	2.3%	
35.8%	30	30	1	2.3%	
37.0%	29	30	1	2.4%	
38.3%	29	30	1	2.3%	
39.5%	29	30	1	2.7%	
40.7%	29	30	1	3.1%	
42.0%	29	30	1	3.1%	
43.2%	29	30	1	3.1%	
44.4%	29	30	1	3.3%	
45.7%	29	30	1	3.3%	
46.9%	29	30	1	3.2%	
48.1%	29	30	1	3.0%	
49.4%	29	30	1	3.0%	
50.6%	29	30	1	2.9%	
51.9%	29	30	1	2.9%	
53.1%	29	30	1	2.4%	
54.3%	29	30	1	2.7%	
55.6%	29	29	1	3.0%	
56.8%	29	29	1	3.0%	
58.0%	29	29	1	2.9%	
59.3%	29	29	1	3.0%	
60.5%	29	29	1	2.6%	
61.7%	29	29	1	2.0%	
63.0%	29	29	1	2.0%	
64.2%	29	29	1	1.9%	
65.4%	29	29	1	2.0%	
66.7%	29	29	0	1.7%	
67.9%	28	29	0	1.7%	
69.1%	28	29	0	1.6%	
70.4%	28	28	0	0.3%	
71.6%	28	28	0	0.2%	
72.8%	28	28	0	0.2%	
74.1%	28	28	0	0.3%	
75.3%	28	28	0	0.2%	
76.5%	28	28	0	0.4%	
77.8%	28	28	0	0.3%	
79.0%	28	28	0	0.3%	
80.2%	28	28	0	1.4%	
81.5%	28	28	0	1.2%	
82.7%	28	28	0	1.1%	
84.0%	28	28	0	1.1%	
85.2%	28	28	0	1.2%	
86.4%	28	28	0	1.3%	
87.7%	28	28	0	1.5%	
88.9%	28	28	0	1.5%	
90.1%	28	28	1	2.0%	
91.4%	27	28	1	1.4%	
92.6%	27	28	0	1.0%	
93.8%	27	28	1	2.4%	
95.1%	26	28	1	5.1%	
96.3%	26	28	1	5.2%	
97.5%	26	28	2	6.5%	
98.8%	26	28	2	3.9%	
100.0%	26	27	2	6.8%	

July					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	33	38	5	14.5%	
1.2%	33	38	5	15.6%	
2.5%	33	35	2	6.9%	
3.7%	33	35	2	6.4%	
4.9%	33	35	2	6.5%	
6.2%	32	35	2	6.5%	
7.4%	32	34	2	5.7%	
8.6%	32	34	2	6.2%	
9.9%	32	34	2	6.3%	
11.1%	32	34	2	6.4%	
12.3%	32	34	2	6.6%	
13.6%	32	34	2	6.1%	
14.8%	32	34	2	6.2%	
16.0%	32	34	2	6.5%	
17.3%	32	34	2	6.2%	
18.5%	32	34	2	6.2%	
19.8%	32	34	2	6.1%	
21.0%	32	34	2	6.2%	
22.2%	32	34	2	5.9%	
23.5%	32	34	2	5.6%	
24.7%	32	34	2	5.6%	
25.9%	32	33	2	5.4%	
27.2%	32	33	2	5.2%	
28.4%	32	33	2	5.2%	
29.6%	32	33	2	5.3%	
30.9%	32	33	2	5.2%	
32.1%	32	33	2	5.2%	
33.3%	32	33	2	4.9%	
34.6%	32	33	2	4.8%	
35.8%	32	33	1	4.5%	
37.0%	32	33	1	4.5%	
38.3%	32	33	1	4.2%	
39.5%	32	33	1	4.2%	
40.7%	32	33	1	3.6%	
42.0%	32	33	1	3.5%	
43.2%	31	32	1	3.2%	
44.4%	31	32	1	3.2%	
45.7%	31	32	1	3.1%	
46.9%	31	32	1	3.1%	
48.1%	31	32	1	2.7%	
49.4%	31	32	1	2.6%	
50.6%	31	32	1	2.2%	
51.9%	31	32	1	2.3%	
53.1%	31	32	1	2.4%	
54.3%	31	32	1	2.4%	
55.6%	31	32	1	2.5%	
56.8%	31	32	1	2.3%	
58.0%	31	32	1	2.2%	
59.3%	31	32	1	2.2%	
60.5%	31	32	1	2.1%	
61.7%	31	32	1	2.4%	
63.0%	31	32	1	2.6%	
64.2%	31	32	1	1.9%	
65.4%	31	32	1	1.9%	
66.7%	31	31	1	1.9%	
67.9%	31	31	1	2.7%	
69.1%	31	31	1	2.9%	
70.4%	30	31	1	2.6%	
71.6%	30	31	1	1.9%	
72.8%	30	31	1	2.3%	
74.1%	30	31	1	2.2%	
75.3%	30	31	1	2.2%	
76.5%	30	31	0	1.6%	
77.8%	30	31	1	2.0%	
79.0%	30	30	0	0.8%	
80.2%	30	30	0	0.9%	
81.5%	30	30	0	1.0%	
82.7%	30	30	0	0.8%	
84.0%	29	30	0	1.4%	
85.2%	29	30	1	1.8%	
86.4%	29	30	1	2.1%	
87.7%	29	30	1	2.2%	
88.9%	29	30	1	3.3%	
90.1%	29	30	1	3.4%	
91.4%	29	29	1	2.6%	
92.6%	29	29	1	2.4%	
93.8%	28	29	1	3.1%	
95.1%	28	29	1	2.1%	
96.3%	28	29	1	2.6%	
97.5%	28	29	0	1.3%	
98.8%	28	28	1	1.9%	
100.0%	26	28	2	6.8%	

August					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	33	33	0	2.3%	
1.2%	32	32	1	0.6%	
2.5%	32	32	1	1.5%	
3.7%	31	32	1	2.7%	
4.9%	31	32	1	3.7%	
6.2%	31	32	1	2.8%	
7.4%	31	32	1	2.7%	
8.6%	32	32	1	3.1%	
9.9%	30	31	1	4.1%	
11.1%	30	31	1	2.4%	
12.3%	30	31	1	2.1%	
13.6%	30	31	1	2.3%	
14.8%	30	31	1	2.4%	
16.0%	30	31	1	2.8%	
17.3%	30	30	1	2.3%	
18.5%	30	30	1	2.9%	
19.8%	29	30	1	3.0%	
21.0%	29	30	1	2.9%	
22.2%	29	30	1	2.7%	
23.5%	29	30	1	2.8%	
24.7%	29	30	1	3.0%	
25.9%	29	30	1	2.0%	
27.2%	29	30	1	2.1%	
28.4%	29	30	1	1.9%	
29.6%	29	30	0	1.5%	
30.9%	29	29	1	2.2%	
32.1%	29	29	1	2.2%	
33.3%	29	29	1	2.4%	
34.6%	29	29	1	2.4%	
35.8%	29	29	1	2.7%	
37.0%	29	29	1	3.2%	
38.3%	28	29	1	3.1%	
39.5%	28	29	1	3.4%	
40.7%	28	29	1	3.5%	
42.0%	28	29	1	3.6%	
43.2%	28	29	1	3.1%	
44.4%	28	29	1	3.3%	
45.7%	28	29	1	3.3%	
46.9%	28	29	1	3.1%	
48.1%	28	29	1	3.1%	
49.4%	28	29	1	3.1%	
50.6%	28	29	1	2.8%	
51.9%	28	29	1	2.7%	
53.1%	28	29	1	2.7%	
54.3%	28	29	1	2.6%	
55.6%	28	29	1	2.5%	
56.8%	28	29	1	2.5%	
58.0%	28	29	1	3.0%	
59.3%	28	29	1	3.0%	
60.5%	28	29	1	2.9%	
61.7%	28	29	1	3.5%	
63.0%	28	29	1	3.3%	
64.2%	28	28	1	3.4%	
65.4%	28	28	1	3.3%	
66.7%	28	28	1	3.3%	
67.9%	27	28	1	3.4%	
69.1%	27	28	1	3.3%	
70.4%	27	28	1	3.3%	
71.6%	27	28	1	2.8%	
72.8%	27	28	1	2.6%	
74.1%	27	28	1	2.6%	
75.3%	27	28	1	2.5%	
76.5%	27	28	1	2.5%	
77.8%	27	28	1	2.4%	
79.0%	27	28	1	2.4%	
80.2%	27	28	1	3.0%	
81.5%	27	28	1	3.1%	
82.7%	27	28	1	3.1%	
84.0%	27	28	1	3.4%	
85.2%	27	28	1	3.6%	
86.4%	27	28	1	4.3%	
87.7%	27	28	1	4.6%	
88.9%	27	28	1	4.5%	
90.1%	27	28	1	4.6%	
91.4%	27	28	1	4.7%	
92.6%	27	28	1	4.7%	
93.8%	27	28	1	4.8%	
95.1%	27	28	1	5.5%	
96.3%	26	28	2	7.1%	
97.5%	26	28	2	7.6%	
98.8%	26	28	2	9.0%	
100.0%	26	27	2	7.5%	

September					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	38	38	0	0.5%	
1.2%	38	38	0	0.0%	
2.5%	38	38	0	0.0%	
3.7%	38	38	0	0.0%	
4.9%	38	38	0	0.0%	
6.2%	38	38	0	0.0%	
7.4%	38	38	0	0.0%	
8.6%	38	38	0	0.5%	
9.9%	38	38	0	0.7%	
11.1%	38	38	0</		

Figure SW-57-b  
Feather River near Gridley, Monthly Stage  
Probability of Exceedance

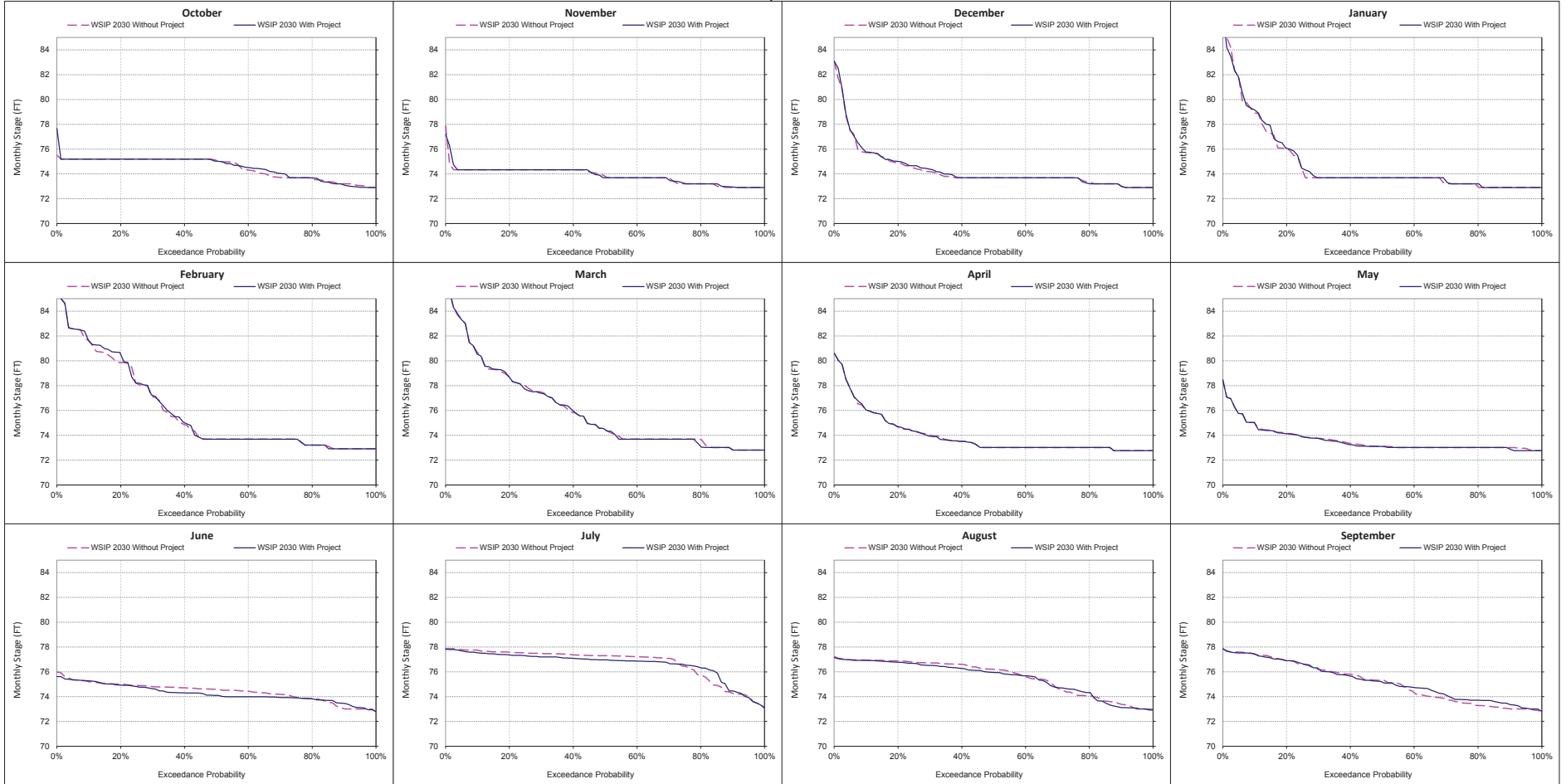


Table SW-57-b  
Feather River near Gridley, Monthly Stage  
Probability of Exceedance

Percent Exceedance Probability	October		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	76	78	2	2.9%
1.2%	75	75	0	0.0%
2.5%	75	75	0	0.0%
3.7%	75	75	0	0.0%
4.9%	75	75	0	0.0%
6.2%	75	75	0	0.0%
7.4%	75	75	0	0.0%
8.6%	75	75	0	0.0%
9.9%	75	75	0	0.0%
11.1%	75	75	0	0.0%
12.3%	75	75	0	0.0%
13.6%	75	75	0	0.0%
14.8%	75	75	0	0.0%
16.0%	75	75	0	0.0%
17.3%	75	75	0	0.0%
18.5%	75	75	0	0.0%
19.8%	75	75	0	0.0%
21.0%	75	75	0	0.0%
22.2%	75	75	0	0.0%
23.5%	75	75	0	0.0%
24.7%	75	75	0	0.0%
25.9%	75	75	0	0.0%
27.2%	75	75	0	0.0%
28.4%	75	75	0	0.0%
29.6%	75	75	0	0.0%
30.9%	75	75	0	0.0%
32.1%	75	75	0	0.0%
33.3%	75	75	0	0.0%
34.6%	75	75	0	0.0%
35.8%	75	75	0	0.0%
37.0%	75	75	0	0.0%
38.3%	75	75	0	0.0%
39.5%	75	75	0	0.0%
40.7%	75	75	0	0.0%
42.0%	75	75	0	0.0%
43.2%	75	75	0	0.0%
44.4%	75	75	0	0.0%
45.7%	75	75	0	0.0%
46.9%	75	75	0	0.0%
48.1%	75	75	0	0.0%
49.4%	75	75	0	-0.1%
50.6%	75	75	0	0.0%
51.9%	75	75	0	0.0%
53.1%	75	75	0	-0.2%
54.3%	75	75	0	-0.2%
55.6%	75	75	0	-0.3%
56.8%	75	75	0	-0.1%
58.0%	74	75	0	0.3%
59.3%	74	75	0	0.3%
60.5%	74	75	0	0.3%
61.7%	74	74	0	0.3%
63.0%	74	74	0	0.5%
64.2%	74	74	0	0.5%
65.4%	74	74	0	0.5%
66.7%	74	74	0	0.5%
67.9%	74	74	0	0.5%
69.1%	74	74	0	0.4%
70.4%	74	74	0	0.4%
71.6%	74	74	0	0.4%
72.8%	74	74	0	0.0%
74.1%	74	74	0	0.0%
75.3%	74	74	0	0.0%
76.5%	74	74	0	0.0%
77.8%	74	74	0	0.0%
79.0%	74	74	0	0.0%
80.2%	74	74	0	0.2%
81.5%	74	74	0	0.1%
82.7%	74	73	0	-0.1%
84.0%	73	73	0	-0.1%
85.2%	73	73	0	-0.1%
86.4%	73	73	0	-0.2%
87.7%	73	73	0	-0.1%
88.9%	73	73	0	0.0%
90.1%	73	73	0	-0.2%
91.4%	73	73	0	-0.2%
92.6%	73	73	0	-0.3%
93.8%	73	73	0	-0.2%
95.1%	73	73	0	-0.2%
96.3%	73	73	0	-0.2%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	November		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	78	77	-1	-0.9%
1.2%	75	76	1	1.9%
2.5%	74	75	0	0.6%
3.7%	74	74	0	0.0%
4.9%	74	74	0	0.0%
6.2%	74	74	0	0.0%
7.4%	74	74	0	0.0%
8.6%	74	74	0	0.0%
9.9%	74	74	0	0.0%
11.1%	74	74	0	0.0%
12.3%	74	74	0	0.0%
13.6%	74	74	0	0.0%
14.8%	74	74	0	0.0%
16.0%	74	74	0	0.0%
17.3%	74	74	0	0.0%
18.5%	74	74	0	0.0%
19.8%	74	74	0	0.0%
21.0%	74	74	0	0.0%
22.2%	74	74	0	0.0%
23.5%	74	74	0	0.0%
24.7%	74	74	0	0.0%
25.9%	74	74	0	0.0%
27.2%	74	74	0	0.0%
28.4%	74	74	0	0.0%
29.6%	74	74	0	0.0%
30.9%	74	74	0	0.0%
32.1%	74	74	0	0.0%
33.3%	74	74	0	0.0%
34.6%	74	74	0	0.0%
35.8%	74	74	0	0.0%
37.0%	74	74	0	0.0%
38.3%	74	74	0	0.0%
39.5%	74	74	0	0.0%
40.7%	74	74	0	0.0%
42.0%	74	74	0	0.0%
43.2%	74	74	0	0.0%
44.4%	74	74	0	0.2%
45.7%	74	74	0	0.0%
46.9%	74	74	0	-0.2%
48.1%	74	74	0	-0.1%
49.4%	74	74	0	-0.3%
50.6%	74	74	0	0.0%
51.9%	74	74	0	0.0%
53.1%	74	74	0	0.0%
54.3%	74	74	0	0.0%
55.6%	74	74	0	0.0%
56.8%	74	74	0	0.0%
58.0%	74	74	0	0.0%
59.3%	74	74	0	0.0%
60.5%	74	74	0	0.0%
61.7%	74	74	0	0.0%
63.0%	74	74	0	0.0%
64.2%	74	74	0	0.0%
65.4%	74	74	0	0.0%
66.7%	74	74	0	0.0%
67.9%	74	74	0	0.0%
69.1%	74	74	0	0.0%
70.4%	74	73	0	-0.2%
71.6%	73	73	0	0.0%
72.8%	73	73	0	0.3%
74.1%	73	73	0	0.1%
75.3%	73	73	0	0.0%
76.5%	73	73	0	0.0%
77.8%	73	73	0	0.0%
79.0%	73	73	0	0.0%
80.2%	73	73	0	0.0%
81.5%	73	73	0	0.0%
82.7%	73	73	0	0.0%
84.0%	73	73	0	0.0%
85.2%	73	73	0	0.3%
86.4%	73	73	0	0.1%
87.7%	73	73	0	0.1%
88.9%	73	73	0	0.1%
90.1%	73	73	0	0.0%
91.4%	73	73	0	0.0%
92.6%	73	73	0	0.0%
93.8%	73	73	0	0.0%
95.1%	73	73	0	0.0%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	December		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	83	83	0	0.0%
1.2%	82	83	1	0.9%
2.5%	81	81	0	0.0%
3.7%	79	79	0	0.2%
4.9%	78	78	0	0.1%
6.2%	77	77	0	-0.2%
7.4%	76	77	1	0.7%
8.6%	76	76	0	0.4%
9.9%	76	76	0	0.0%
11.1%	76	76	0	0.0%
12.3%	76	76	0	0.0%
13.6%	76	76	0	0.0%
14.8%	75	75	0	0.0%
16.0%	75	75	0	-0.2%
17.3%	75	75	0	0.2%
18.5%	75	75	0	0.1%
19.8%	75	75	0	0.2%
21.0%	75	75	0	0.2%
22.2%	75	75	0	0.2%
23.5%	75	75	0	0.0%
24.7%	74	75	0	0.2%
25.9%	74	75	0	0.3%
27.2%	74	74	0	0.2%
28.4%	74	74	0	0.3%
29.6%	74	74	0	0.3%
30.9%	74	74	0	0.2%
32.1%	74	74	0	0.1%
33.3%	74	74	0	0.3%
34.6%	74	74	0	0.2%
35.8%	74	74	0	0.3%
37.0%	74	74	0	0.3%
38.3%	74	74	0	0.1%
39.5%	74	74	0	0.0%
40.7%	74	74	0	0.0%
42.0%	74	74	0	0.0%
43.2%	74	74	0	0.0%
44.4%	74	74	0	0.0%
45.7%	74	74	0	0.0%
46.9%	74	74	0	-0.2%
48.1%	74	74	0	0.0%
49.4%	74	74	0	0.0%
50.6%	74	74	0	0.0%
51.9%	74	74	0	0.0%
53.1%	74	74	0	0.0%
54.3%	74	74	0	0.0%
55.6%	74	74	0	0.0%
56.8%	74	74	0	0.0%
58.0%	74	74	0	0.0%
59.3%	74	74	0	0.0%
60.5%	74	74	0	0.0%
61.7%	74	74	0	0.0%
63.0%	74	74	0	0.0%
64.2%	74	74	0	0.0%
65.4%	74	74	0	0.0%
66.7%	74	74	0	0.0%
67.9%	74	74	0	0.0%
69.1%	74	74	0	0.0%
70.4%	74	74	0	0.0%
71.6%	74	74	0	0.0%
72.8%	74	74	0	0.0%
74.1%	74	74	0	0.0%
75.3%	74	74	0	0.0%
76.5%	74	74	0	0.1%
77.8%	73	73	0	-0.1%
79.0%	73	73	0	-0.1%
80.2%	73	73	0	-0.2%
81.5%	73	73	0	0.0%
82.7%	73	73	0	0.0%
84.0%	73	73	0	0.0%
85.2%	73	73	0	0.0%
86.4%	73	73	0	0.0%
87.7%	73	73	0	0.0%
88.9%	73	73	0	0.0%
90.1%	73	73	0	0.0%
91.4%	73	73	0	0.4%
92.6%	73	73	0	0.0%
93.8%	73	73	0	0.0%
95.1%	73	73	0	0.0%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	January		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	87	87	0	0.0%
1.2%	85	84	-1	-1.0%
2.5%	84	83	-1	-0.9%
3.7%	82	82	0	0.0%
4.9%	82	82	0	0.0%
6.2%	80	81	1	0.9%
7.4%	80	80	0	-0.3%
8.6%	79	79	0	0.0%
9.9%	79	79	0	0.3%
11.1%	79	79	0	0.1%
12.3%	78	78	0	0.4%
13.6%	77	78	1	0.8%
14.8%	77	78	1	0.8%
16.0%	77	77	0	-0.3%
17.3%	76	77	1	0.7%
18.5%	76	77	0	0.6%
19.8%	76	76	0	0.1%
21.0%	76	76	0	0.1%
22.2%	75	76	0	0.5%
23.5%	75	75	0	1%
24.7%	74	74	0	0.0%
25.9%	74	74	1	0.9%
27.2%	74	74	0	0.7%
28.4%	74	74	0	0.2%
29.6%	74	74	0	0%
30.9%	74	74	0	0.0%
32.1%	74	74	0	0.0%
33.3%	74	74	0	0.0%
34.6%	74	74	0	0.0%
35.8%	74	74	0	0.0%
37.0%	74	74	0	0.0%
38.3%	74	74	0	0.0%
39.5%	74	74	0	0.0%
40.7%	74	74	0	



Table SW-57-b  
Feather River near Gridley, Monthly Stage  
Probability of Exceedance

Percent Exceedance Probability	February		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	87	87	0	0.0%
1.2%	85	85	0	0.0%
2.5%	85	85	0	0.0%
3.7%	83	83	0	0.0%
4.9%	83	83	0	0.0%
6.2%	83	83	0	0.0%
7.4%	83	83	0	0.0%
8.6%	82	82	0	0.0%
9.9%	82	81	0	0.0%
11.1%	81	81	0	0.1%
12.3%	81	81	1	0.6%
13.6%	81	81	1	0.7%
14.8%	81	81	0	0.4%
16.0%	80	81	0	0.6%
17.3%	80	81	0	0.6%
18.5%	80	81	1	1.0%
19.8%	80	81	1	1.0%
21.0%	80	80	0	0.1%
22.2%	80	80	0	0.1%
23.5%	79	79	-1	-1.0%
24.7%	78	78	0	0.0%
25.9%	78	78	0	0.2%
27.2%	78	78	0	0.1%
28.4%	78	78	0	0.1%
29.6%	77	77	0	0.2%
30.9%	77	77	0	0.1%
32.1%	77	77	0	-0.1%
33.3%	76	76	0	0.5%
34.6%	76	76	0	0.2%
35.8%	76	76	0	0.3%
37.0%	75	76	0	0.0%
38.3%	75	75	0	0.6%
39.5%	75	75	0	0.2%
40.7%	75	75	0	0.2%
42.0%	74	75	0	0.4%
43.2%	74	74	-0.4%	-0.4%
44.4%	74	74	0	0.0%
45.7%	74	74	0	0.0%
46.9%	74	74	0	0.0%
48.1%	74	74	0	0.0%
49.4%	74	74	0	0.0%
50.6%	74	74	0	0.0%
51.9%	74	74	0	0.0%
53.1%	74	74	0	0.0%
54.3%	74	74	0	-0.3%
55.6%	74	74	0	0.0%
56.8%	74	74	0	0.0%
58.0%	74	74	0	0.0%
59.3%	74	74	0	0.0%
60.5%	74	74	0	0.0%
61.7%	74	74	0	0.0%
63.0%	74	74	0	0.0%
64.2%	74	74	0	0.0%
65.4%	74	74	0	0.0%
66.7%	74	74	0	0.0%
67.9%	74	74	0	0.0%
69.1%	74	74	0	0.0%
70.4%	74	74	0	0.0%
71.6%	74	74	0	0.0%
72.8%	74	74	0	0.0%
74.1%	74	74	0	0.0%
75.3%	74	74	0	0.0%
76.5%	73	73	0	-0.1%
77.8%	73	73	0	0.0%
79.0%	73	73	0	0.0%
80.2%	73	73	0	-0.8%
81.5%	73	73	0	0.0%
82.7%	73	73	0	0.0%
84.0%	73	73	0	0.0%
85.2%	73	73	0	-0.3%
86.4%	73	73	0	0.0%
87.7%	73	73	0	0.0%
88.9%	73	73	0	0.0%
90.1%	73	73	0	0.0%
91.4%	73	73	0	0.0%
92.6%	73	73	0	0.0%
93.8%	73	73	0	0.0%
95.1%	73	73	0	0.0%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	March		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	86	86	0	0.0%
1.2%	86	86	0	0.0%
2.5%	84	84	0	0.0%
3.7%	84	84	0	0.1%
4.9%	83	83	0	0.0%
6.2%	83	83	0	0.0%
7.4%	81	81	0	0.0%
8.6%	81	81	0	0.0%
9.9%	81	81	0	-0.2%
11.1%	80	80	0	0.0%
12.3%	80	80	0	0.0%
13.6%	79	80	0	0.2%
14.8%	79	79	0	0.0%
16.0%	79	79	0	0.0%
17.3%	79	79	0	0.2%
18.5%	79	79	0	0.2%
19.8%	79	79	0	0.0%
21.0%	78	78	0	0.0%
22.2%	78	78	0	0.0%
23.5%	78	78	0	0.0%
24.7%	78	78	0	-0.4%
25.9%	78	78	0	-0.3%
27.2%	78	78	0	-0.1%
28.4%	78	78	0	0.0%
29.6%	78	77	-0.1%	-0.1%
30.9%	77	77	0	-0.1%
32.1%	77	77	0	0.1%
33.3%	77	77	0	0.0%
34.6%	77	77	0	0.0%
35.8%	76	76	0	0.0%
37.0%	76	76	0	0.1%
38.3%	76	76	0	0.4%
39.5%	76	76	0	0.3%
40.7%	76	76	0	0.0%
42.0%	76	76	0	0.0%
43.2%	76	76	0	0.0%
44.4%	75	75	0	0.0%
45.7%	75	75	0	0.0%
46.9%	75	75	0	0.0%
48.1%	75	75	0	0.0%
49.4%	75	75	0	0.0%
50.6%	74	74	0	0.0%
51.9%	74	74	0	0.2%
53.1%	74	74	0	0.0%
54.3%	74	74	0	-0.3%
55.6%	74	74	0	0.0%
56.8%	74	74	0	0.0%
58.0%	74	74	0	0.0%
59.3%	74	74	0	0.0%
60.5%	74	74	0	0.0%
61.7%	74	74	0	0.0%
63.0%	74	74	0	0.0%
64.2%	74	74	0	0.0%
65.4%	74	74	0	0.0%
66.7%	74	74	0	0.0%
67.9%	74	74	0	0.0%
69.1%	74	74	0	0.0%
70.4%	74	74	0	0.0%
71.6%	74	74	0	0.0%
72.8%	74	74	0	0.0%
74.1%	74	74	0	0.0%
75.3%	74	74	0	0.0%
76.5%	74	74	0	0.0%
77.8%	74	74	0	0.0%
79.0%	74	73	-0.5%	-0.5%
80.2%	73	73	-1	-0.8%
81.5%	73	73	0	-0.3%
82.7%	73	73	0	0.0%
84.0%	73	73	0	0.0%
85.2%	73	73	0	0.0%
86.4%	73	73	0	0.0%
87.7%	73	73	0	0.0%
88.9%	73	73	0	0.0%
90.1%	73	73	0	0.0%
91.4%	73	73	0	0.0%
92.6%	73	73	0	0.0%
93.8%	73	73	0	0.0%
95.1%	73	73	0	0.0%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	April		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	81	81	0	0.0%
1.2%	80	80	0	0.0%
2.5%	80	80	0	0.0%
3.7%	79	79	0	0.0%
4.9%	78	78	0	0.0%
6.2%	77	77	0	0.0%
7.4%	77	77	0	0.3%
8.6%	76	77	0	0.1%
9.9%	76	76	0	0.0%
11.1%	76	76	0	0.0%
12.3%	76	76	0	0.0%
13.6%	76	76	0	0.0%
14.8%	76	76	0	0.0%
16.0%	75	75	0	0.0%
17.3%	75	75	0	0.0%
18.5%	75	75	0	0.0%
19.8%	75	75	0	0.0%
21.0%	74	75	0	0.2%
22.2%	74	74	0	0.0%
23.5%	74	74	0	0.0%
24.7%	74	74	0	0.1%
25.9%	74	74	0	0.0%
27.2%	74	74	0	0.1%
28.4%	74	74	0	-0.1%
29.6%	74	74	0	-0.2%
30.9%	74	74	0	-0.1%
32.1%	74	74	0	-0.1%
33.3%	74	74	0	-0.3%
34.6%	74	74	0	-0.1%
35.8%	74	74	0	0.0%
37.0%	74	74	0	0.0%
38.3%	74	74	0	0.0%
39.5%	74	74	0	0.0%
40.7%	74	74	0	0.0%
42.0%	73	73	0	0.0%
43.2%	73	73	0	0.0%
44.4%	73	73	0	0.0%
45.7%	73	73	0	0.0%
46.9%	73	73	0	0.0%
48.1%	73	73	0	0.0%
49.4%	73	73	0	0.0%
50.6%	73	73	0	0.0%
51.9%	73	73	0	0.0%
53.1%	73	73	0	0.0%
54.3%	73	73	0	0.0%
55.6%	73	73	0	0.0%
56.8%	73	73	0	0.0%
58.0%	73	73	0	0.0%
59.3%	73	73	0	0.0%
60.5%	73	73	0	0.0%
61.7%	73	73	0	0.0%
63.0%	73	73	0	0.0%
64.2%	73	73	0	0.0%
65.4%	73	73	0	0.0%
66.7%	73	73	0	0.0%
67.9%	73	73	0	0.0%
69.1%	73	73	0	0.0%
70.4%	73	73	0	0.0%
71.6%	73	73	0	0.0%
72.8%	73	73	0	0.0%
74.1%	73	73	0	0.0%
75.3%	73	73	0	0.0%
76.5%	73	73	0	0.0%
77.8%	73	73	0	0.0%
79.0%	73	73	0	0.0%
80.2%	73	73	0	0.0%
81.5%	73	73	0	0.0%
82.7%	73	73	0	0.0%
84.0%	73	73	0	0.0%
85.2%	73	73	0	0.0%
86.4%	73	73	0	0.0%
87.7%	73	73	0	0.0%
88.9%	73	73	0	0.0%
90.1%	73	73	0	0.0%
91.4%	73	73	0	0.4%
92.6%	73	73	0	0.0%
93.8%	73	73	0	0.0%
95.1%	73	73	0	0.0%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	0.0%
100.0%	73	73	0	0.0%

Percent Exceedance Probability	May		Absolute Difference (FT)	Relative Difference (%)
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)		
0.0%	78	78	0	0.0%
1.2%	77	77	0	0.0%
2.5%	77	77	0	0.0%
3.7%	76	76	0	0.0%
4.9%	76	76	0	0.0%
6.2%	76	76	0	0.0%
7.4%	75	75	0	0.0%
8.6%	75	75	0	0.0%
9.9%	75	75	0	0.0%
11.1%	75	74	0	-0.2%
12.3%	74	74	0	0.0%
13.6%	74	74	0	-0.1%
14.8%	74	74	0	0.0%
16.0%	74	74	0	0.0%
17.3%	74	74	0	0.0%
18.5%	74	74	0	-0.1%
19.8%	74	74	0	0.0%
21.0%	74	74	0	0.0%
22.2%	74	74	0	0.0%
23.5%	74	74	0	0.0%
24.7%	74	74	0	0.0%
25.9%	74	74	0	0.0%
27.2%	74	74	0	0.0%
28.4%	74	74	0	0.0%
29.6%	74	74	0	0.0%
30.9%	74	74	0	-0.1%
32.1%	74	74	0	-0.1%
33.3%	74	74	0	-0.1%
34.6%	74	74	0	-0.1%
35.8%	74	74	0	-0.1%
37.0%	74	74	0	-0.1%
38.3%	73	73	0	-0.1%
39.5%	73	73	0	-0.2%
40.7%	73	73</		

Table SW-57-b  
Feather River near Gridley, Monthly Stage  
Probability of Exceedance

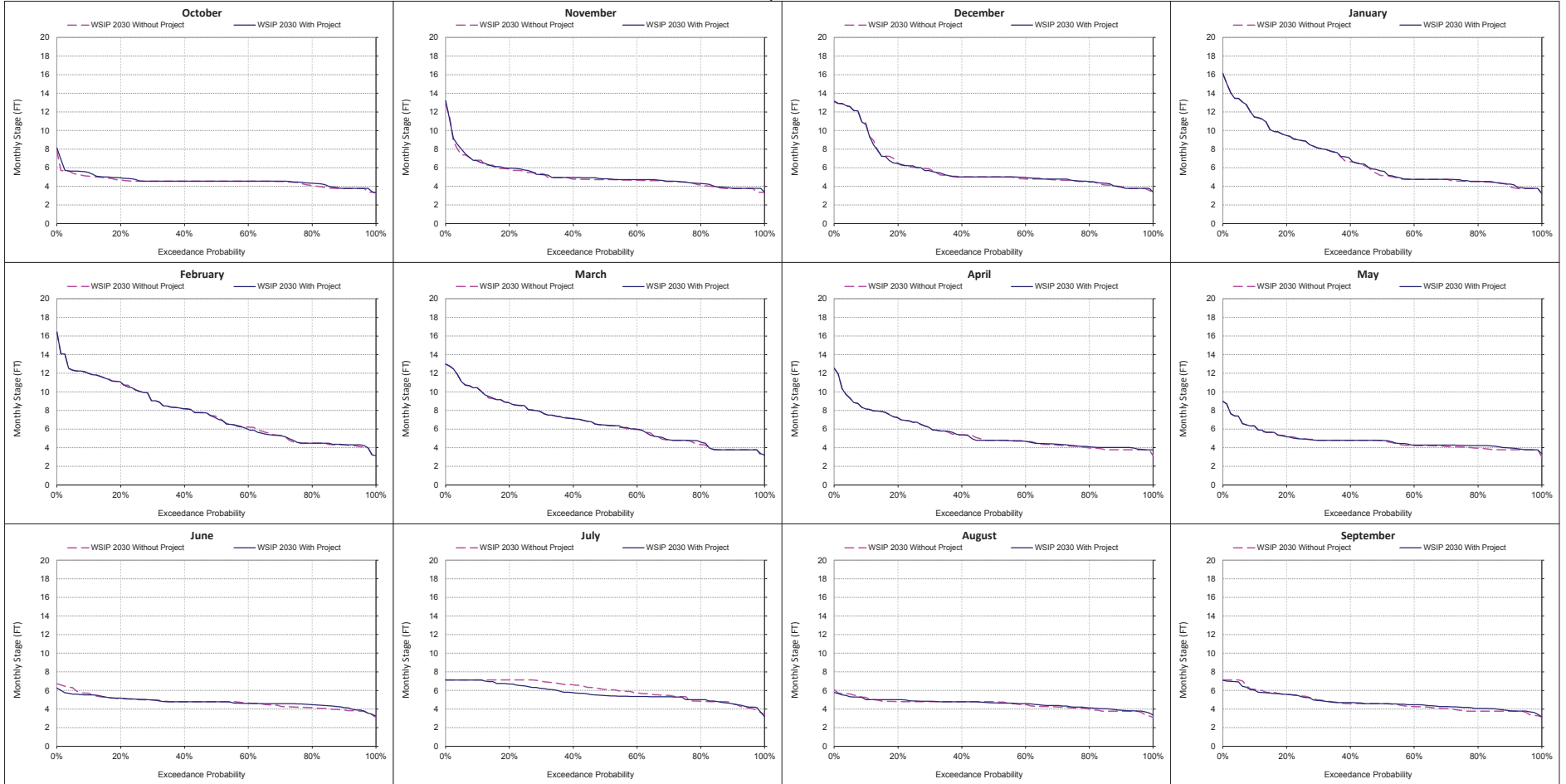
June				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	76	76	0	-0.5%
1.2%	76	76	0	-0.4%
2.5%	75	75	0	-0.3%
3.7%	75	75	0	-0.1%
4.9%	75	75	0	0.0%
6.2%	75	75	0	0.0%
7.4%	75	75	0	0.0%
8.6%	75	75	0	0.0%
9.9%	75	75	0	0.1%
11.1%	75	75	0	0.1%
12.3%	75	75	0	0.1%
13.6%	75	75	0	0.0%
14.8%	75	75	0	0.0%
16.0%	75	75	0	0.0%
17.3%	75	75	0	0.0%
18.5%	75	75	0	-0.1%
19.8%	75	75	0	-0.1%
21.0%	75	75	0	-0.1%
22.2%	75	75	0	-0.1%
23.5%	75	75	0	-0.1%
24.7%	75	75	0	-0.1%
25.9%	75	75	0	-0.2%
27.2%	75	75	0	-0.2%
28.4%	75	75	0	-0.2%
29.6%	75	74	0	-0.2%
30.9%	75	75	0	-0.2%
32.1%	75	74	0	-0.4%
33.3%	75	74	0	-0.4%
34.6%	75	74	0	-0.6%
35.8%	75	74	0	-0.6%
37.0%	75	74	0	-0.6%
38.3%	75	74	0	-0.6%
39.5%	75	74	0	-0.5%
40.7%	75	74	0	-0.5%
42.0%	75	74	0	-0.5%
43.2%	75	74	0	-0.5%
44.4%	75	74	0	-0.5%
45.7%	75	74	0	-0.5%
46.9%	75	74	0	-0.7%
48.1%	75	74	0	-0.7%
49.4%	75	74	0	-0.7%
50.6%	75	74	0	-0.7%
51.9%	75	74	0	-0.7%
53.1%	75	74	-1	-0.7%
54.3%	75	74	-1	-0.7%
55.6%	75	74	-1	-0.7%
56.8%	74	74	-1	-0.7%
58.0%	74	74	0	-0.6%
59.3%	74	74	0	-0.6%
60.5%	74	74	0	-0.6%
61.7%	74	74	0	-0.5%
63.0%	74	74	0	-0.5%
64.2%	74	74	0	-0.4%
65.4%	74	74	0	-0.4%
66.7%	74	74	0	-0.3%
67.9%	74	74	0	-0.3%
69.1%	74	74	0	-0.4%
70.4%	74	74	0	-0.3%
71.6%	74	74	0	-0.3%
72.8%	74	74	0	-0.2%
74.1%	74	74	0	-0.1%
75.3%	74	74	0	0.0%
76.5%	74	74	0	0.0%
77.8%	74	74	0	0.0%
79.0%	74	74	0	0.0%
80.2%	74	74	0	0.0%
81.5%	74	74	0	-0.1%
82.7%	74	74	0	0.0%
84.0%	74	74	0	0.1%
85.2%	74	74	0	0.2%
86.4%	73	74	0	0.3%
87.7%	73	73	0	0.4%
88.9%	73	73	0	0.5%
90.1%	73	73	0	0.6%
91.4%	73	73	0	0.5%
92.6%	73	73	0	0.3%
93.8%	73	73	0	0.2%
95.1%	73	73	0	0.1%
96.3%	73	73	0	0.1%
97.5%	73	73	0	-0.1%
98.8%	73	73	0	-0.1%
100.0%	73	73	0	0.1%

July				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	78	78	0	-0.1%
1.2%	78	78	0	-0.1%
2.5%	78	78	0	-0.1%
3.7%	78	78	0	-0.1%
4.9%	78	78	0	-0.1%
6.2%	78	78	0	-0.2%
7.4%	78	78	0	-0.2%
8.6%	78	78	0	-0.2%
9.9%	78	78	0	-0.3%
11.1%	78	78	0	-0.2%
12.3%	78	77	0	-0.2%
13.6%	78	77	0	-0.2%
14.8%	78	77	0	-0.2%
16.0%	78	77	0	-0.2%
17.3%	78	77	0	-0.3%
18.5%	78	77	0	-0.3%
19.8%	78	77	0	-0.3%
21.0%	78	77	0	-0.3%
22.2%	78	77	0	-0.3%
23.5%	78	77	0	-0.3%
24.7%	78	77	0	-0.3%
25.9%	78	77	0	-0.3%
27.2%	77	77	0	-0.3%
28.4%	77	77	0	-0.3%
29.6%	77	77	0	-0.4%
30.9%	77	77	0	-0.3%
32.1%	77	77	0	-0.3%
33.3%	77	77	0	-0.3%
34.6%	77	77	0	-0.3%
35.8%	77	77	0	-0.4%
37.0%	77	77	0	-0.4%
38.3%	77	77	0	-0.4%
39.5%	77	77	0	-0.4%
40.7%	77	77	0	-0.4%
42.0%	77	77	0	-0.4%
43.2%	77	77	0	-0.4%
44.4%	77	77	0	-0.4%
45.7%	77	77	0	-0.4%
46.9%	77	77	0	-0.4%
48.1%	77	77	0	-0.4%
49.4%	77	77	0	-0.4%
50.6%	77	77	0	-0.4%
51.9%	77	77	0	-0.5%
53.1%	77	77	0	-0.5%
54.3%	77	77	0	-0.5%
55.6%	77	77	0	-0.5%
56.8%	77	77	0	-0.5%
58.0%	77	77	0	-0.5%
59.3%	77	77	0	-0.4%
60.5%	77	77	0	-0.4%
61.7%	77	77	0	-0.4%
63.0%	77	77	0	-0.5%
64.2%	77	77	0	-0.5%
65.4%	77	77	0	-0.4%
66.7%	77	77	0	-0.4%
67.9%	77	77	0	-0.4%
69.1%	77	77	0	-0.4%
70.4%	77	77	0	-0.6%
71.6%	77	77	0	-0.5%
72.8%	77	77	0	-0.1%
74.1%	74	77	0	0.2%
75.3%	76	77	0	0.1%
76.5%	76	77	0	0.4%
77.8%	76	76	0	0.4%
79.0%	76	76	1	0.9%
80.2%	76	76	1	0.8%
81.5%	76	76	1	1.0%
82.7%	75	76	1	1.2%
84.0%	75	76	1	1.6%
85.2%	75	76	1	1.3%
86.4%	75	75	0	0.6%
87.7%	74	75	1	0.9%
88.9%	74	74	0	0.1%
90.1%	74	74	0	0.3%
91.4%	74	74	0	0.2%
92.6%	74	74	0	0.1%
93.8%	74	74	0	-0.2%
95.1%	74	74	0	-0.1%
96.3%	74	74	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	-0.1%
100.0%	73	73	0	0.1%

August				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	77	77	0	-0.1%
1.2%	77	77	0	-0.1%
2.5%	77	77	0	-0.1%
3.7%	77	77	0	0.0%
4.9%	77	77	0	0.0%
6.2%	77	77	0	0.0%
7.4%	77	77	0	-0.1%
8.6%	77	77	0	0.0%
9.9%	77	77	0	0.0%
11.1%	77	77	0	0.0%
12.3%	77	77	0	0.0%
13.6%	77	77	0	-0.1%
14.8%	77	77	0	-0.1%
16.0%	77	77	0	-0.1%
17.3%	77	77	0	-0.1%
18.5%	77	77	0	-0.1%
19.8%	77	77	0	-0.1%
21.0%	77	77	0	-0.1%
22.2%	77	77	0	-0.2%
23.5%	77	77	0	-0.2%
24.7%	77	77	0	-0.1%
25.9%	77	77	0	-0.1%
27.2%	77	77	0	-0.2%
28.4%	77	77	0	-0.3%
29.6%	77	77	0	-0.3%
30.9%	77	77	0	-0.3%
32.1%	77	77	0	-0.3%
33.3%	77	76	0	-0.3%
34.6%	77	76	0	-0.3%
35.8%	77	76	0	-0.4%
37.0%	77	76	0	-0.4%
38.3%	77	76	0	-0.4%
39.5%	77	76	0	-0.4%
40.7%	77	76	0	-0.4%
42.0%	76	76	0	-0.4%
43.2%	76	76	0	-0.4%
44.4%	76	76	0	-0.4%
45.7%	76	76	0	-0.2%
46.9%	76	76	0	-0.3%
48.1%	76	76	0	-0.3%
49.4%	76	76	0	-0.3%
50.6%	76	76	0	-0.3%
51.9%	76	76	0	-0.3%
53.1%	76	76	0	-0.4%
54.3%	76	76	0	-0.4%
55.6%	76	76	0	-0.3%
56.8%	76	76	0	-0.2%
58.0%	76	76	0	-0.1%
59.3%	76	76	0	0.1%
60.5%	76	76	0	0.2%
61.7%	75	76	0	0.2%
63.0%	75	76	0	0.2%
64.2%	75	75	0	-0.1%
65.4%	75	75	0	-0.1%
66.7%	75	75	0	-0.3%
67.9%	75	75	0	-0.3%
69.1%	75	75	0	-0.1%
70.4%	75	75	0	0.1%
71.6%	75	75	0	0.2%
72.8%	74	75	0	0.4%
74.1%	74	75	0	0.3%
75.3%	74	75	0	0.5%
76.5%	74	74	0	0.5%
77.8%	74	74	0	0.4%
79.0%	74	74	0	0.4%
80.2%	74	74	0	0.4%
81.5%	74	74	0	-0.1%
82.7%	74	74	0	-0.4%
84.0%	74	74	0	0.0%
85.2%	74	73	0	-0.2%
86.4%	74	73	0	-0.4%
87.7%	74	73	0	-0.5%
88.9%	73	73	0	-0.4%
90.1%	73	73	0	-0.4%
91.4%	73	73	0	-0.4%
92.6%	73	73	0	-0.2%
93.8%	73	73	0	0.0%
95.1%	73	73	0	-0.1%
96.3%	73	73	0	0.0%
97.5%	73	73	0	0.0%
98.8%	73	73	0	-0.1%
100.0%	73	73	0	-0.1%

September				
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	78	78	0	0.0%
1.2%	78	78	0	0.1%
2.5%	78	78	0	-0.1%
3.7%	78	78	0	-0.1%
4.9%	78	78	0	-0.1%
6.2%	78	78	0	-0.1%
7.4%	78	78	0	0.0%
8.6%	78	78	0	0.0%
9.9%	77	77	0	0.0%
11.1%	77	77	0	-0.1%
12.3%	77	77	0	-0.1%
13.6%	77	77	0	-0.2%
14.8%	77	77	0	-0.1%
16.0%	77	77	0	-0.1%
17.3%	77	77	0	0.0%
18.5%	77	77	0	0.0%
19.8%	77	77	0	0.0%
21.0%	77	77	0	0.0%
22.2%	77	77	0	0.0%
23.5%	77	77	0	0.1%
24.7%	77	77	0	0.1%
25.9%	77	77	0	0.0%
27.2%	76	77	0	0.1%
28.4%	76	76	0	0.0%
29.6%	76	76	0	0.1%
30.9%	76	76	0	-0.1%
32.1%	76	76	0	-0.2%
33.3%	76	76	0	0.0%
34.6%	76	76	0	-0.1%
35.8%	76	76	0	-0.2%
37.0%	76	76	0	-0.1%
38.3%	76	76	0	-0.1%
39.5%	76	76	0	-0.2%
40.7%	76	76	0	-0.2%
42.0%	76	75	0	-0.4%
43.2%	76	75	0	-0.3%
44.4%	75	75	0	-0.1%
45.7%	75	75	0	-0.1%
46.9%	75	75	0	-0.1%
48.1%	75	75	0	-0.1%
49.4%	75	75	0	-0.1%
50.6%	75	75	0	-0.3%
51.9%	75	75	0	-0.1%
53.1%	75	75	0	-0.1%

Figure SW-58-b  
 American River at Fair Oaks, Monthly Stage  
 Probability of Exceedance



**Table SW-58-b**  
American River at Fair Oaks, Monthly Stage Probability of Exceedance

October					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	8	8	0	0.0%	3.1%
1.2%	6	7	1	21.3%	0.0%
2.5%	6	6	0	0.0%	0.0%
3.7%	6	6	0	-0.2%	0.0%
4.9%	5	6	0	4.0%	0.0%
6.2%	5	6	0	6.5%	0.0%
7.4%	5	6	0	7.6%	0.0%
8.6%	5	6	0	9.0%	0.0%
9.9%	5	5	0	7.8%	0.0%
11.1%	5	5	0	-3.7%	0.0%
12.3%	5	5	0	1.4%	0.0%
13.6%	5	5	0	1.1%	0.0%
14.8%	5	5	0	1.6%	0.0%
16.0%	5	5	0	3.2%	0.0%
17.3%	5	5	0	2.5%	0.0%
18.5%	5	5	0	5.1%	0.0%
19.8%	5	5	0	4.8%	0.0%
21.0%	5	5	0	5.2%	0.0%
22.2%	5	5	0	5.1%	0.0%
23.5%	5	5	0	6.8%	0.0%
24.7%	5	5	0	3.8%	0.0%
25.9%	5	5	0	0.6%	0.0%
27.2%	5	5	0	1.0%	0.0%
28.4%	5	5	0	0.0%	0.0%
29.6%	5	5	0	0.0%	0.0%
30.9%	5	5	0	0.0%	0.0%
32.1%	5	5	0	0.0%	0.0%
33.3%	5	5	0	0.0%	0.0%
34.6%	5	5	0	0.0%	0.0%
35.8%	5	5	0	0.0%	0.0%
37.0%	5	5	0	0.0%	0.0%
38.3%	5	5	0	0.0%	0.0%
39.5%	5	5	0	0.0%	0.0%
40.7%	5	5	0	0.0%	0.0%
42.0%	5	5	0	0.0%	0.0%
43.2%	5	5	0	0.0%	0.0%
44.4%	5	5	0	0.0%	0.0%
45.7%	5	5	0	0.0%	0.0%
46.9%	5	5	0	0.0%	0.0%
48.1%	5	5	0	0.0%	0.0%
49.4%	5	5	0	0.0%	0.0%
50.6%	5	5	0	0.0%	0.0%
51.9%	5	5	0	0.0%	0.0%
53.1%	5	5	0	0.0%	0.0%
54.3%	5	5	0	0.0%	0.0%
55.6%	5	5	0	0.0%	0.0%
56.8%	5	5	0	0.0%	0.0%
58.0%	5	5	0	0.0%	0.0%
59.3%	5	5	0	0.0%	0.0%
60.5%	5	5	0	0.0%	0.0%
61.7%	5	5	0	0.0%	0.0%
63.0%	5	5	0	0.0%	0.0%
64.2%	5	5	0	0.0%	0.0%
65.4%	5	5	0	0.0%	0.0%
66.7%	5	5	0	0.0%	0.0%
67.9%	5	5	0	0.3%	0.0%
69.1%	5	5	0	0.5%	0.0%
70.4%	5	5	0	0.6%	0.0%
71.6%	5	5	0	0.6%	0.0%
72.8%	4	5	0	1.4%	0.0%
74.1%	4	4	0	0.8%	0.0%
75.3%	4	4	0	1.1%	0.0%
76.5%	4	4	0	2.9%	0.0%
77.8%	4	4	0	4.2%	0.0%
79.0%	4	4	0	5.6%	0.0%
80.2%	4	4	0	6.5%	0.0%
81.5%	4	4	0	7.2%	0.0%
82.7%	4	4	0	7.3%	0.0%
84.0%	4	4	0	8.0%	0.0%
85.2%	4	4	0	8.2%	0.0%
86.4%	4	4	0	3.2%	0.0%
87.7%	4	4	0	3.5%	0.0%
88.9%	4	4	0	0.0%	0.0%
90.1%	4	4	0	0.0%	0.0%
91.4%	4	4	0	0.0%	0.0%
92.6%	4	4	0	0.0%	0.0%
93.8%	4	4	0	0.0%	0.0%
95.1%	4	4	0	0.0%	0.0%
96.3%	4	4	0	0.0%	0.0%
97.5%	3	3	0	11.0%	0.0%
98.8%	3	3	0	1.0%	0.0%
100.0%	3	3	0	0.1%	0.0%

November					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	13	13	0	2.7%	0.0%
1.2%	11	11	0	-1.9%	0.0%
2.5%	9	9	0	3.8%	0.0%
3.7%	8	9	1	6.4%	0.0%
4.9%	7	8	1	8.2%	0.0%
6.2%	7	7	0	1.7%	0.0%
7.4%	7	7	0	0.0%	0.0%
8.6%	7	7	0	-0.7%	0.0%
9.9%	7	7	0	0.8%	0.0%
11.1%	7	7	0	-3.7%	0.0%
12.3%	6	6	0	2.6%	0.0%
13.6%	6	6	0	0.6%	0.0%
14.8%	6	6	0	-1.3%	0.0%
16.0%	6	6	0	3.3%	0.0%
17.3%	6	6	0	3.0%	0.0%
18.5%	6	6	0	1.2%	0.0%
19.8%	6	6	0	1.4%	0.0%
21.0%	6	6	0	4.1%	0.0%
22.2%	6	6	0	3.9%	0.0%
23.5%	6	6	0	2.8%	0.0%
24.7%	6	6	0	2.3%	0.0%
25.9%	5	6	0	3.9%	0.0%
27.2%	5	6	0	1.1%	0.0%
28.4%	5	5	0	-2.8%	0.0%
29.6%	5	5	0	-1.7%	0.0%
30.9%	5	5	0	-1.8%	0.0%
32.1%	5	5	0	5.2%	0.0%
33.3%	5	5	0	0.4%	0.0%
34.6%	5	5	0	0.0%	0.0%
35.8%	5	5	0	0.0%	0.0%
37.0%	5	5	0	0.0%	0.0%
38.3%	5	5	0	0.0%	0.0%
39.5%	5	5	0	3.2%	0.0%
40.7%	5	5	0	3.6%	0.0%
42.0%	5	5	0	3.8%	0.0%
43.2%	5	5	0	3.7%	0.0%
44.4%	5	5	0	3.5%	0.0%
45.7%	5	5	0	3.5%	0.0%
46.9%	5	5	0	4.0%	0.0%
48.1%	5	5	0	2.3%	0.0%
49.4%	5	5	0	1.8%	0.0%
50.6%	5	5	0	1.7%	0.0%
51.9%	5	5	0	1.2%	0.0%
53.1%	5	5	0	0.0%	0.0%
54.3%	5	5	0	0.0%	0.0%
55.6%	5	5	0	1.0%	0.0%
56.8%	5	5	0	1.1%	0.0%
58.0%	5	5	0	1.2%	0.0%
59.3%	5	5	0	1.3%	0.0%
60.5%	5	5	0	1.4%	0.0%
61.7%	5	5	0	2.2%	0.0%
63.0%	5	5	0	2.3%	0.0%
64.2%	5	5	0	2.3%	0.0%
65.4%	5	5	0	2.2%	0.0%
66.7%	5	5	0	1.1%	0.0%
67.9%	5	5	0	0.9%	0.0%
69.1%	5	5	0	0.6%	0.0%
70.4%	5	5	0	0.7%	0.0%
71.6%	5	5	0	0.4%	0.0%
72.8%	5	5	0	0.4%	0.0%
74.1%	4	4	0	0.1%	0.0%
75.3%	4	4	0	0.6%	0.0%
76.5%	4	4	0	-1.0%	0.0%
77.8%	4	4	0	1.1%	0.0%
79.0%	4	4	0	2.9%	0.0%
80.2%	4	4	0	4.2%	0.0%
81.5%	4	4	0	5.1%	0.0%
82.7%	4	4	0	4.9%	0.0%
84.0%	4	4	0	1.9%	0.0%
85.2%	4	4	0	1.4%	0.0%
86.4%	4	4	0	2.8%	0.0%
87.7%	4	4	0	3.5%	0.0%
88.9%	4	4	0	1.5%	0.0%
90.1%	4	4	0	0.0%	0.0%
91.4%	4	4	0	0.0%	0.0%
92.6%	4	4	0	0.0%	0.0%
93.8%	4	4	0	0.0%	0.0%
95.1%	4	4	0	0.0%	0.0%
96.3%	4	4	0	0.0%	0.0%
97.5%	3	3	0	11.0%	0.0%
98.8%	3	3	0	12.7%	0.0%
100.0%	3	3	0	0.0%	0.0%

December					
Percent Exceedance Probability	WSIP 2030 Without Project		WSIP 2030 With Project		Relative Difference (%)
	Monthly Stage (FT)	Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	13	13	0	1.0%	0.0%
1.2%	13	13	0	0.0%	0.0%
2.5%	13	13	0	0.4%	0.0%
3.7%	13	13	0	0.5%	0.0%
4.9%	13	13	0	0.0%	0.0%
6.2%	12	12	0	0.0%	0.0%
7.4%	12	12	0	0.0%	0.0%
8.6%	11	11	0	0.0%	0.0%
9.9%	11	11	0	-1.4%	0.0%
11.1%	9	9	0	0.0%	0.0%
12.3%	9	8	0	-5.3%	0.0%
13.6%	8	8	0	0.0%	0.0%
14.8%	7	7	0	-0.7%	0.0%
16.0%	7	7	0	-0.7%	0.0%
17.3%	7	7	0	-6.2%	0.0%
18.5%	7	7	-1	-7.3%	0.0%
19.8%	7	6	0	-0.9%	0.0%
21.0%	6	6	0	1.2%	0.0%
22.2%	6	6	0	0.1%	0.0%
23.5%	6	6	0	2.1%	0.0%
24.7%	6	6	0	2.3%	0.0%
25.9%	6	6	0	0.0%	0.0%
27.2%	6	6	0	0.0%	0.0%
28.4%	6	6	0	-4.0%	0.0%
29.6%	6	6	0	-3.3%	0.0%
30.9%	6	6	0	-1.8%	0.0%
32.1%	5	5	0	0.9%	0.0%
33.3%	5	5	0	4.3%	0.0%
34.6%	5	5	0	1.7%	0.0%
35.8%	5	5	0	0.6%	0.0%
37.0%	5	5	0	0.0%	0.0%
38.3%	5	5	0	-1.3%	0.0%
39.5%	5	5	0	-0.2%	0.0%
40.7%	5	5	0	0.0%	0.0%
42.0%	5	5	0	0.0%	0.0%
43.2%	5	5	0	0.0%	0.0%
44.4%	5	5	0	0.5%	0.0%
45.7%	5	5	0	0.0%	0.0%
46.9%	5	5	0	0.0%	0.0%
48.1%	5	5	0	0.0%	0.0%
49.4%	5	5	0	0.0%	0.0%
50.6%	5	5	0	0.0%	0.0%
51.9%	5	5	0	0.0%	0.0%
53.1%	5	5	0	0.0%	0.0%
54.3%	5	5	0	0.0%	0.0%
55.6%	5	5	0	0.0%	0.0%
56.8%	5	5	0	1.4%	0.0%
58.0%	5	5	0	3.2%	0.0%
59.3%	5	5	0	3.4%	0.0%
60.5%	5	5	0	2.6%	0.0%
61.7%	5	5	0	2.2%	0.0%
63.0%	5	5	0	1.7%	0.0%
64.2%	5	5	0	1.5%	0.0%
65.4%	5	5	0	0.0%	0.0%
66.7%	5	5	0	0.0%	0.0%
67.9%	5	5	0	1.6%	0.0%
69.1%	5	5	0	1.9%	0.0%
70.4%	5	5	0	2.0%	0.0%
71.6%	5	5	0	3.1%	0.0%
72.8%	5	5	0	3.2%	0.0%
74.1%	5	5	0	0.8%	0.0%
75.3%	5	5	0	0.2%	0.0%
76.5%	5	5	0	0.9%	0.0%
77.8%	5	5	0	0.9%	0.0%
79.0%	5	5	0	0.4%	0.0%
80.2%	4	4	0	-0.9%	0.0%
81.5%	4	4	0	-0.1%	0.0%
82.7%	4	4	0	1.2%	0.0%
84.0%	4	4	0	4.1%	0.0%
85.2%	4	4	0	4.2%	0.0%
86.4%	4	4	0	3.0%	0.0%
87.7%	4	4	0	-0.2%	0.0%
88.9%	4	4	0	-1.1%	0.0%
90.1%	4	4	0	-1.5%	0.0%
91.4%	4	4	0	-1.1%	0.0%
92.6%	4	4	0	0.0%	0.0%
93.8%	4	4	0	0.0%	0.0%
95.1%	4	4	0	0.0%	0.0%
96.3%	4	4	0	0.0%	0.0%
97.5%	4	4	0	0.0%	0.0%
98.8%	4	4	0	6.2%	0.0%
100.0%					

Table SW-58-b  
American River at Fair Oaks, Monthly Stage  
Probability of Exceedance

Percent Exceedance Probability	February			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	16	16	0	0.0%
1.2%	14	14	0	0.0%
2.5%	14	14	0	0.0%
3.7%	13	13	0	0.0%
4.9%	12	12	0	0.0%
6.2%	12	12	0	0.0%
7.4%	12	12	0	0.0%
8.6%	12	12	0	0.0%
9.9%	12	12	0	0.0%
11.1%	12	12	0	0.0%
12.3%	12	12	0	0.0%
13.6%	12	12	0	0.0%
14.8%	12	11	0	-0.2%
16.0%	11	11	0	-0.7%
17.3%	11	11	0	0.0%
18.5%	11	11	0	0.0%
19.8%	11	11	0	0.0%
21.0%	11	11	0	0.0%
22.2%	11	11	0	-1.8%
23.5%	10	10	0	0.0%
24.7%	10	10	0	0.4%
25.9%	10	10	0	0.0%
27.2%	10	10	0	0.0%
28.4%	10	10	0	0.0%
29.6%	9	9	0	0.0%
30.9%	9	9	0	0.0%
32.1%	9	9	0	0.0%
33.3%	8	8	0	0.0%
34.6%	8	8	0	0.0%
35.8%	8	8	0	0.0%
37.0%	8	8	0	0.0%
38.3%	8	8	0	0.0%
39.5%	8	8	0	0.0%
40.7%	8	8	0	0.9%
42.0%	8	8	0	-0.2%
43.2%	8	8	0	-0.0%
44.4%	8	8	0	0.0%
45.7%	8	8	0	0.0%
46.9%	8	8	0	0.0%
48.1%	7	7	0	0.0%
49.4%	7	7	0	-2.0%
50.6%	7	7	0	-3.0%
51.9%	7	7	0	0.0%
53.1%	7	7	0	-1.4%
54.3%	7	6	0	-0.5%
55.6%	6	6	0	0.0%
56.8%	6	6	0	-1.7%
58.0%	6	6	0	-0.7%
59.3%	6	6	0	-2.3%
60.5%	6	6	0	-5.2%
61.7%	6	6	0	-4.9%
63.0%	6	6	0	-3.5%
64.2%	6	6	0	-3.7%
65.4%	6	5	0	-3.5%
66.7%	6	5	0	-3.1%
67.9%	5	5	0	-1.0%
69.1%	5	5	0	-0.1%
70.4%	5	5	0	0.0%
71.6%	5	5	0	0.0%
72.8%	5	5	0	3.5%
74.1%	5	5	0	3.6%
75.3%	5	5	0	-1.0%
76.5%	4	4	0	0.0%
77.8%	4	4	0	0.0%
79.0%	4	4	0	0.0%
80.2%	4	4	0	0.0%
81.5%	4	4	0	0.0%
82.7%	4	4	0	0.0%
84.0%	4	4	0	0.0%
85.2%	4	4	0	2.8%
86.4%	4	4	0	1.1%
87.7%	4	4	0	1.4%
88.9%	4	4	0	1.1%
90.1%	4	4	0	0.0%
91.4%	4	4	0	1.6%
92.6%	4	4	0	1.9%
93.8%	4	4	0	3.0%
95.1%	4	4	0	5.3%
96.3%	4	4	0	3.3%
97.5%	3	4	0	-1.1%
98.8%	3	3	0	5.2%
100.0%	3	3	0	0.0%

Percent Exceedance Probability	March			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	13	13	0	0.0%
1.2%	13	13	0	0.0%
2.5%	12	12	0	0.0%
3.7%	12	12	0	0.0%
4.9%	11	11	0	0.0%
6.2%	11	11	0	0.0%
7.4%	11	11	0	0.0%
8.6%	10	10	0	0.0%
9.9%	10	10	0	0.0%
11.1%	10	10	0	-0.3%
12.3%	10	10	0	0.0%
13.6%	9	9	0	1.8%
14.8%	9	9	0	0.6%
16.0%	9	9	0	0.0%
17.3%	9	9	0	0.0%
18.5%	9	9	0	0.0%
19.8%	9	9	0	0.0%
21.0%	9	9	0	0.0%
22.2%	9	9	0	0.0%
23.5%	9	9	0	0.0%
24.7%	9	9	0	0.0%
25.9%	8	8	0	-0.2%
27.2%	8	8	0	-0.8%
28.4%	8	8	0	0.0%
29.6%	8	8	0	0.0%
30.9%	8	8	0	0.0%
32.1%	8	8	0	0.0%
33.3%	7	7	0	0.0%
34.6%	7	7	0	0.0%
35.8%	7	7	0	0.0%
37.0%	7	7	0	-1.2%
38.3%	7	7	0	-0.5%
39.5%	7	7	0	0.0%
40.7%	7	7	0	-0.8%
42.0%	7	7	0	0.0%
43.2%	7	7	0	0.0%
44.4%	7	7	0	0.0%
45.7%	7	7	0	0.0%
46.9%	7	7	0	0.0%
48.1%	6	6	0	0.0%
49.4%	6	6	0	0.6%
50.6%	6	6	0	0.5%
51.9%	6	6	0	0.5%
53.1%	6	6	0	0.0%
54.3%	6	6	0	2.8%
55.6%	6	6	0	0.1%
56.8%	6	6	0	2.3%
58.0%	6	6	0	0.1%
59.3%	6	6	0	1.0%
60.5%	6	6	0	0.3%
61.7%	6	6	0	0.0%
63.0%	6	6	0	-0.9%
64.2%	6	5	0	-1.7%
65.4%	5	5	0	0.0%
66.7%	5	5	0	0.0%
67.9%	5	5	0	3.9%
69.1%	5	5	0	1.3%
70.4%	5	5	0	0.5%
71.6%	5	5	0	0.0%
72.8%	5	5	0	0.0%
74.1%	5	5	0	0.0%
75.3%	5	5	0	0.6%
76.5%	5	5	0	0.7%
77.8%	5	5	0	4.9%
79.0%	4	5	0	9.0%
80.2%	4	5	0	5.1%
81.5%	4	4	0	5.0%
82.7%	4	4	0	0.0%
84.0%	4	4	0	-1.3%
85.2%	4	4	0	0.0%
86.4%	4	4	0	0.0%
87.7%	4	4	0	0.0%
88.9%	4	4	0	0.0%
90.1%	4	4	0	0.0%
91.4%	4	4	0	0.0%
92.6%	4	4	0	0.0%
93.8%	4	4	0	0.0%
95.1%	4	4	0	0.0%
96.3%	4	4	0	0.0%
97.5%	4	4	0	0.0%
98.8%	3	3	0	5.2%
100.0%	3	3	0	0.9%

Percent Exceedance Probability	April			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	13	13	0	0.0%
1.2%	12	12	0	0.0%
2.5%	10	10	0	0.0%
3.7%	10	10	0	0.0%
4.9%	9	9	0	0.0%
6.2%	9	9	0	0.0%
7.4%	9	9	0	0.0%
8.6%	8	8	0	0.0%
9.9%	8	8	0	0.0%
11.1%	8	8	0	0.0%
12.3%	8	8	0	0.0%
13.6%	8	8	0	0.0%
14.8%	8	8	0	0.0%
16.0%	8	8	0	0.0%
17.3%	8	8	0	-0.1%
18.5%	7	7	0	0.0%
19.8%	7	7	0	0.0%
21.0%	7	7	0	0.0%
22.2%	7	7	0	0.0%
23.5%	7	7	0	0.0%
24.7%	7	7	0	0.0%
25.9%	7	7	0	-0.1%
27.2%	7	7	0	0.0%
28.4%	6	6	0	0.1%
29.6%	6	6	0	0.0%
30.9%	6	6	0	0.0%
32.1%	6	6	0	0.0%
33.3%	6	6	0	0.0%
34.6%	6	6	0	0.0%
35.8%	6	6	0	1.6%
37.0%	5	7	0	3.8%
38.3%	5	7	0	0.3%
39.5%	5	5	0	0.0%
40.7%	5	5	0	-0.1%
42.0%	5	5	0	-1.0%
43.2%	5	5	0	-6.2%
44.4%	5	5	0	-6.0%
45.7%	5	5	0	-4.0%
46.9%	5	5	0	0.0%
48.1%	5	5	0	0.0%
49.4%	5	5	0	0.0%
50.6%	5	5	0	0.0%
51.9%	5	5	0	0.0%
53.1%	5	5	0	0.0%
54.3%	5	5	0	-0.6%
55.6%	5	5	0	-0.9%
56.8%	5	5	0	-1.0%
58.0%	5	5	0	-1.0%
59.3%	5	5	0	-0.8%
60.5%	5	5	0	0.0%
61.7%	5	5	0	-2.0%
63.0%	5	4	0	-0.9%
64.2%	4	4	0	0.3%
65.4%	4	4	0	2.1%
66.7%	4	4	0	2.0%
67.9%	4	4	0	2.2%
69.1%	4	4	0	2.1%
70.4%	4	4	0	2.6%
71.6%	4	4	0	2.5%
72.8%	4	4	0	2.5%
74.1%	4	4	0	1.6%
75.3%	4	4	0	1.4%
76.5%	4	4	0	1.2%
77.8%	4	4	0	1.6%
79.0%	4	4	0	2.6%
80.2%	4	4	0	3.0%
81.5%	4	4	0	2.4%
82.7%	4	4	0	2.3%
84.0%	4	4	0	3.7%
85.2%	4	4	0	6.6%
86.4%	4	4	0	6.6%
87.7%	4	4	0	6.6%
88.9%	4	4	0	6.6%
90.1%	4	4	0	6.6%
91.4%	4	4	0	6.6%
92.6%	4	4	0	6.6%
93.8%	4	4	0	5.0%
95.1%	4	4	0	1.8%
96.3%	4	4	0	1.4%
97.5%	4	4	0	0.0%
98.8%	4	4	0	0.0%
100.0%	3	4	1	21.3%

Percent Exceedance Probability	May			
	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)
0.0%	9	9	0	0.0%
1.2%	9	9	0	0.0%
2.5%	8	8	0	0.0%
3.7%	7	7	0	0.0%
4.9%	7	7	0	0.0%
6.2%	7	7	0	0.0%
7.4%	6	6	0	0.0%
8.6%	6	6	0	0.0%
9.9%	6	6	0	0.0%
11.1%	6	6	0	0.0%
12.3%	6	6	0	2.7%
13.6%	6	6	0	0.0%
14.8%	6	6	0	0.0%
16.0%	6	6	0	0.0%
17.3%	5	5	0	0.5%
18.5%	5	5	0	-0.9%
19.8%	5	5	0	-2.0%
21.0%	5	5	0	-0.8%
22.2%	5	5	0	0.2%
23.5%	5	5	0	-1.2%
24.7%	5	5	0	0.1%
25.9%	5	5	0	0.4%
27.2%	5	5	0	-0.5%
28.4%	5	5	0	-1.1%
29.6%	5	5	0	0.0%
30.9%	5	5	0	0.0%
32.1%	5	5	0	0.0%
33.3%	5	5	0	0.0%
34.6%	5	5	0	0.0%
35.8%	5	5	0	0.0%
37.0%	5	5	0	0.0%
38.3%	5	5	0	0.0%
39.5%	5	5	0	0.0%
40.7%	5	5	0	0.0%
42.0%	5	5	0	0.0%
43.2%	5	5	0	0.0%
44.4%	5	5	0	0.0%
45.7%	5	5	0	0.0%
46.9%	5	5	0	0.0%
48.1%	5	5	0	0.0%
49.4%	5	5	0	0.6%
50.6%	5	5	0	0.0%
51.9%	5	5	0	2.6%
53.1%	5	5	0	1.8%
54.3%	4	4	0	1.0%
55.6%	4	4	0	2.4%
56.8%				

Table SW-58-b  
American River at Fair Oaks, Monthly Stage  
Probability of Exceedance

June						July						August						September					
Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)		Percent Exceedance Probability	WSIP 2030 Without Project Monthly Stage (FT)	WSIP 2030 With Project Monthly Stage (FT)	Absolute Difference (FT)	Relative Difference (%)	
0.0%	7	6	0	-6.8%		0.0%	7	7	0	0.0%		0.0%	6	6	0	-4.8%		0.0%	7	7	0	-0.5%	
1.2%	7	6	-1	-9.1%		1.2%	7	7	0	0.0%		1.2%	6	6	0	-1.3%		1.2%	7	7	0	-1.8%	
2.5%	6	6	0	-2.5%		2.5%	7	7	0	0.0%		2.5%	6	6	0	-2.3%		2.5%	6	6	0	-2.3%	
3.7%	6	6	-1	-10.2%		3.7%	7	7	0	0.0%		3.7%	6	5	0	-3.3%		3.7%	7	7	0	-2.4%	
4.9%	6	6	-1	-11.1%		4.9%	7	7	0	0.0%		4.9%	6	5	0	-5.4%		4.9%	7	7	0	-3.2%	
6.2%	6	6	0	-5.6%		6.2%	7	7	0	0.0%		6.2%	5	5	0	-3.4%		6.2%	7	6	-1	-8.1%	
7.4%	6	6	0	-3.6%		7.4%	7	7	0	0.0%		7.4%	5	5	0	-2.4%		7.4%	6	6	0	-2.8%	
8.6%	6	6	0	-3.1%		8.6%	7	7	0	0.0%		8.6%	5	5	0	0.0%		8.6%	6	6	0	-1.2%	
9.9%	6	6	0	-3.0%		9.9%	7	7	0	0.0%		9.9%	5	5	0	-4.7%		9.9%	6	6	0	-1.6%	
11.1%	6	6	0	0.0%		11.1%	7	7	0	0.0%		11.1%	5	5	0	-0.3%		11.1%	6	6	0	-3.4%	
12.3%	5	5	0	1.6%		12.3%	7	7	0	-1.8%		12.3%	5	5	0	-0.2%		12.3%	6	6	0	-3.5%	
13.6%	5	5	0	1.4%		13.6%	7	7	0	-2.6%		13.6%	5	5	0	1.3%		13.6%	6	6	0	-1.0%	
14.8%	5	5	0	0.7%		14.8%	7	7	0	-2.7%		14.8%	5	5	0	3.1%		14.8%	6	6	0	-1.3%	
16.0%	5	5	0	10.0%		16.0%	7	7	0	-5.2%		16.0%	5	5	0	3.7%		16.0%	6	6	0	-1.9%	
17.3%	5	5	0	-0.1%		17.3%	7	7	0	-5.5%		17.3%	5	5	0	4.0%		17.3%	6	6	0	-0.6%	
18.5%	5	5	0	0.9%		18.5%	7	7	0	-5.5%		18.5%	5	5	0	4.0%		18.5%	6	6	0	-0.3%	
19.8%	5	5	0	1.4%		19.8%	7	7	0	-6.2%		19.8%	5	5	0	4.5%		19.8%	6	6	0	0.0%	
21.0%	5	5	0	0.9%		21.0%	7	7	0	-6.3%		21.0%	5	5	0	4.4%		21.0%	6	6	0	-0.3%	
22.2%	5	5	0	0.2%		22.2%	7	7	-1	-7.6%		22.2%	5	5	0	3.6%		22.2%	5	5	0	0.3%	
23.5%	5	5	0	0.5%		23.5%	7	7	-8	-8.6%		23.5%	5	5	0	2.0%		23.5%	5	5	0	-0.4%	
24.7%	5	5	0	0.5%		24.7%	7	6	-1	-9.1%		24.7%	5	5	0	1.7%		24.7%	5	5	0	-1.2%	
25.9%	5	5	0	0.5%		25.9%	7	6	-1	-10.1%		25.9%	5	5	0	1.5%		25.9%	5	5	0	-2.6%	
27.2%	5	5	0	0.4%		27.2%	7	6	-1	-11.3%		27.2%	5	5	0	1.1%		27.2%	5	5	0	-0.3%	
28.4%	5	5	0	0.2%		28.4%	7	6	-1	-11.0%		28.4%	5	5	0	0.9%		28.4%	5	5	0	-3.3%	
29.6%	5	5	0	-1.0%		29.6%	7	6	-1	-11.2%		29.6%	5	5	-1	0.9%		29.6%	5	5	0	1.3%	
30.9%	5	5	0	-1.0%		30.9%	7	6	-1	-10.4%		30.9%	5	5	0	0.8%		30.9%	5	5	0	-1.5%	
32.1%	5	5	0	-1.4%		32.1%	7	6	-1	-11.2%		32.1%	5	5	0	0.0%		32.1%	5	5	0	-0.1%	
33.3%	5	5	0	-1.0%		33.3%	7	6	-1	-11.3%		33.3%	5	5	0	0.0%		33.3%	5	5	0	-0.7%	
34.6%	5	5	0	-0.6%		34.6%	7	6	-1	-11.0%		34.6%	5	5	0	0.0%		34.6%	5	5	0	-0.9%	
35.8%	5	5	0	0.0%		35.8%	7	6	-1	-12.0%		35.8%	5	5	0	0.0%		35.8%	5	5	0	-0.6%	
37.0%	5	5	0	0.0%		37.0%	7	6	-1	-12.9%		37.0%	5	5	0	0.0%		37.0%	5	5	0	1.3%	
38.3%	5	5	0	0.0%		38.3%	7	6	-1	-12.6%		38.3%	5	5	0	0.0%		38.3%	5	5	0	2.5%	
39.5%	5	5	0	0.0%		39.5%	7	6	-1	-12.5%		39.5%	5	5	0	0.0%		39.5%	5	5	0	2.5%	
40.7%	5	5	0	0.0%		40.7%	7	6	-1	-13.1%		40.7%	5	5	0	0.0%		40.7%	5	5	0	2.5%	
42.0%	5	5	0	0.0%		42.0%	7	6	-1	-12.9%		42.0%	5	5	0	0.0%		42.0%	5	5	0	2.0%	
43.2%	5	5	0	0.0%		43.2%	6	6	-1	-11.9%		43.2%	5	5	-1	0.0%		43.2%	5	5	0	1.5%	
44.4%	5	5	0	0.0%		44.4%	6	6	-1	-11.0%		44.4%	5	5	0	-0.3%		44.4%	5	5	0	0.0%	
45.7%	5	5	0	0.0%		45.7%	6	6	-1	-12.0%		45.7%	5	5	0	-0.9%		45.7%	5	5	0	0.0%	
46.9%	5	5	0	0.0%		46.9%	6	6	-1	-12.0%		46.9%	5	5	0	-1.7%		46.9%	5	5	0	0.0%	
48.1%	5	5	0	0.0%		48.1%	6	5	-1	-11.7%		48.1%	5	5	0	-1.8%		48.1%	5	5	0	0.1%	
49.4%	5	5	0	0.0%		49.4%	6	5	-1	-10.9%		49.4%	5	5	0	-2.8%		49.4%	5	5	0	0.4%	
50.6%	5	5	0	0.0%		50.6%	6	5	-1	-11.1%		50.6%	5	5	-1	-2.6%		50.6%	5	5	0	0.4%	
51.9%	5	5	0	0.0%		51.9%	6	5	-1	-11.1%		51.9%	5	5	0	-2.1%		51.9%	5	5	0	0.1%	
53.1%	5	5	0	0.0%		53.1%	6	5	-1	-10.7%		53.1%	5	5	0	-2.3%		53.1%	5	5	0	0.5%	
54.3%	5	5	0	-0.9%		54.3%	6	5	-1	-9.6%		54.3%	5	5	0	0.2%		54.3%	5	5	0	0.6%	
55.6%	5	5	0	-3.0%		55.6%	6	5	-1	-9.5%		55.6%	5	5	0	1.2%		55.6%	4	5	0	2.4%	
56.8%	5	5	0	-2.6%		56.8%	6	5	-1	-9.1%		56.8%	5	5	0	0.7%		56.8%	4	5	0	3.7%	
58.0%	5	5	0	-1.7%		58.0%	6	5	-1	-9.0%		58.0%	4	5	0	2.0%		58.0%	4	4	0	4.8%	
59.3%	5	5	0	-0.3%		59.3%	6	5	0	-6.6%		59.3%	4	5	0	1.7%		59.3%	4	4	0	4.5%	
60.5%	5	5	0	-0.2%		60.5%	6	5	0	-6.5%		60.5%	4	5	0	2.6%		60.5%	4	4	0	4.8%	
61.7%	5	5	0	0.3%		61.7%	6	5	0	-5.5%		61.7%	4	5	0	4.9%		61.7%	4	4	0	4.8%	
63.0%	5	5	0	0.8%		63.0%	6	5	0	-5.5%		63.0%	4	4	0	5.1%		63.0%	4	4	0	5.1%	
64.2%	5	5	0	0.5%		64.2%	6	5	0	-5.1%		64.2%	4	4	0	4.1%		64.2%	4	4	0	3.6%	
65.4%	4	5	0	2.5%		65.4%	6	5	0	-3.7%		65.4%	4	4	0	3.1%		65.4%	4	4	0	4.9%	
66.7%	4	5	0	2.8%		66.7%	6	5	0	-3.6%		66.7%	4	4	0	2.7%		66.7%	4	4	0	5.1%	
67.9%	4	5	0	3.7%		67.9%	5	5	0	-2.9%		67.9%	4	4	0	3.0%		67.9%	4	4	0	4.8%	
69.1%	4	5	0	3.8%		69.1%	5	5	0	-3.0%		69.1%	4	4	0	3.3%		69.1%	4	4	0	5.7%	
70.4%	4	5	0	7.1%		70.4%	5	5	0	-2.7%		70.4%	4	4	0	3.6%		70.4%	4	4	0	5.2%	
71.6%	4	5	0	7.5%		71.6%	5	5	0	-1.0%		71.6%	4	4	0	2.7%		71.6%	4	4	0	5.1%	
72.8%	4	5	0	7.5%		72.8%	5	5	0	-0.9%		72.8%	4	4	0	3.1%		72.8%	4	4	0	7.2%	
74.1%	4	5	0	8.3%		74.1%	5	5	0	-0.8%		74.1%	4	4	0	2.0%		74.1%	4	4	0	8.3%	
75.3%	4	5	0	8.3%		75.3%	5	5	0	-6.1%		75.3%	4	4	0	2.7%		75.3%	4	4	0	9.8%	
76.5%	4	5	0	8.3%		76.5%	5	5	0	2.5%		76.5%	4	4	0	2.6%		76.5%	4	4	0	10.4%	
77.8%	4	5	0	10.4%		77.8%	5	5	0	2.9%		77.8%	4	4	0	2.9%		77.8%	4	4	0	10.1%	
79.0%	4	4	0	7.9%		79.0%	5	5	0	3.2%		79.0%	4	4	0	2.4%		79.0%	4	4	0	8.1%	
80.2%	4	4	0	7.1%		80.2%	5	5	0	3.3%		80.2%	4	4	0	4.4%		80.2%	4	4	0	8.0%	
81.5%	4	4	0	8.2%		81.5%	5	5	0	3.8%		81.5%	4	4	0	6.0%		81.5%	4	4	0	7.6%	
82.7%	4	4	0	7.8%		82.7%	5	5	0	1.7%		82.7%	4	4	0	5.2%		82.7%	4	4	0	7.6%	
84.0%	4	4	0	7.6%		84.0%	5	5	0	1.4%		84.0%	4	4	0	6.7%		84.0%	4	4	0	7.1%	
85.2%	4	4	0	7.7%		85.2%	5	5	0	0.2%		85.2%	4	4	0	6.6%		85.2%	4	4	0	6.9%	
86.4%	4	4	0	8.8%		86.4%	5	5	0	-1.7%		86.4%	4	4	0	6.2%		86.4%	4	4	0	5.2%	
87.7%	4	4	0	7.8%		87.7%	5	5	0	-2.8%		87.7%	4	4	0	5.0%		87.7%	4	4	0	4.3%	
88.9%	4	4	0	8.5%		88.9%	5	5	0	-2.3%		88.9%	4	4	0	2.3%		88.9%	4	4	0	2.3%	
90.1%	4	4	0	6.7%		90.1%	5	5	0	-0.3%		90.1%	4	4	0	2.7%		90.1%	4	4	0	1.0%	
91.4%	4	4	0	7.4%		91.4%	4	4	0	0.0%		91.4%	4	4	0	1.7%		91.4%	4	4	0	0.0%	
92.6%	4	4	0	4.0%		92.6%	4	4	0	3.3%		92.6%	4	4	0	0.9%		92.6%	4	4	0	0.0%	
93.8%	4</																						