

**Table 239 No Action Alternative -Alternative 4 (Future)**

**Alternative 4 (Future) vs No Action Alternative  
Sacramento River at Rio Vista, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	75.6	98.8	89.0	85.4	82.9	91.5	89.0	89.0	93.9	92.7	97.6	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	22.0	1.2	3.7	9.8	14.6	2.4	4.9	1.2	1.2	6.1	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	1.2	0.0	7.3	0.0	1.2	2.4	6.1	9.8	3.7	1.2	1.2	0.0
Net Change in % Exceedance:	20.7	1.2	-3.7	9.8	13.4	0.0	-1.2	-8.5	-2.4	4.9	-1.2	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	90.9	97.0	81.8	100.0	81.8	90.9	84.8	90.9	100.0	81.8	97.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	6.1	3.0	3.0	0.0	12.1	3.0	12.1	0.0	0.0	15.2	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	3.0	0.0	15.2	0.0	3.0	0.0	3.0	9.1	0.0	3.0	0.0	0.0
Net Change in % Exceedance:	3.0	3.0	-12.1	0.0	9.1	3.0	9.1	-9.1	0.0	12.1	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 240 No Action Alternative -Alternative 4 (Future)**

**Alternative 4 (Future) vs No Action Alternative  
Yolo Bypass, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	31.7	34.1	29.3	22.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	69.5	58.5	54.9	52.4	63.4	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	69.5	67.1	65.9	70.7	78.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	65.9	65.9	70.7	78.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	69.5	58.5	54.9	52.4	63.4	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	100.0	75.8	69.7	48.5	30.3	12.1	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0

**Table 241 No Action Alternative -Alternative 4 (Future)**

**Alternative 4 (Future) vs No Action Alternative  
Delta Outflow, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	73.2	98.8	86.6	97.6	87.8	95.1	97.6	96.3	93.9	100.0	97.6	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	22.0	1.2	4.9	2.4	9.8	1.2	2.4	0.0	1.2	0.0	2.4	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	8.5	0.0	2.4	2.4	0.0	3.7	4.9	0.0	0.0	0.0
Net Change in % Exceedance:	22.0	1.2	-3.7	2.4	7.3	-1.2	2.4	-3.7	-3.7	0.0	2.4	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	54.5	97.0	84.8	100.0	75.8	90.9	100.0	90.9	93.9	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	33.3	3.0	12.1	0.0	18.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	3.0	0.0	6.1	3.0	0.0	9.1	6.1	0.0	0.0	0.0
Net Change in % Exceedance:	33.3	3.0	9.1	0.0	12.1	0.0	0.0	-9.1	-6.1	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	8,350	10,798	22,082	31,475	37,498	30,725	19,501	11,009	11,566	13,675	9,771	13,116	13,187
Future - Alternative 5	8,372	10,695	21,739	30,880	36,894	30,403	19,496	11,002	11,561	13,674	9,765	13,112	13,069
Difference	22	-103	-343	-596	-604	-321	-5	-8	-5	0	-7	-4	-118
Percent Difference	0%	-1%	-2%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	8,996	14,634	37,088	51,035	56,945	47,194	30,753	12,279	11,846	17,045	8,777	23,150	19,185
Future - Alternative 5	9,000	14,383	36,363	50,229	56,220	46,849	30,782	12,286	11,847	17,046	8,760	23,139	19,015
Difference	4	-251	-725	-805	-725	-345	30	7	1	1	-17	-11	-170
Percent Difference	0%	-2%	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Above Normal</b>													
Future - Base	9,290	10,029	19,595	40,534	52,912	37,168	18,221	12,048	12,038	14,830	9,005	15,709	15,067
Future - Alternative 5	9,456	9,948	19,204	39,596	52,210	36,648	18,223	12,048	12,037	14,830	9,000	15,709	14,919
Difference	166	-81	-391	-938	-701	-520	2	0	-1	0	-4	0	-148
Percent Difference	2%	-1%	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Below Normal</b>													
Future - Base	8,183	9,236	16,398	24,715	25,957	23,572	16,492	11,386	12,357	12,801	10,142	6,570	10,705
Future - Alternative 5	8,181	9,217	16,201	23,971	25,220	23,202	16,438	11,367	12,366	12,784	10,143	6,570	10,576
Difference	-2	-19	-198	-744	-737	-370	-55	-19	9	-17	0	0	-128
Percent Difference	0%	0%	-1%	-3%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
<b>Dry</b>													
Future - Base	7,696	9,129	14,297	16,142	24,160	21,042	12,961	10,471	11,580	11,715	11,004	6,583	9,426
Future - Alternative 5	7,696	9,092	14,202	15,859	23,621	20,721	12,940	10,444	11,584	11,699	11,004	6,583	9,347
Difference	0	-36	-95	-283	-539	-321	-21	-27	4	-16	1	0	-79
Percent Difference	0%	0%	-1%	-2%	-2%	-2%	0%	0%	0%	0%	0%	0%	-1%
<b>Critical</b>													
Future - Base	7,362	7,663	10,980	13,674	15,968	13,022	10,454	7,796	9,644	9,526	10,173	6,975	7,426
Future - Alternative 5	7,353	7,660	10,939	13,483	15,749	12,985	10,448	7,796	9,592	9,567	10,167	6,974	7,395
Difference	-9	-3	-41	-191	-218	-36	-6	0	-53	40	-6	-1	-31
Percent Difference	0%	0%	0%	-1%	-1%	0%	0%	0%	-1%	0%	0%	0%	0%

**Sacramento River Delta Inflow**

**Future - Base**

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,235	17,027	51,654	65,553	69,785	60,402	45,827	14,062	14,775	19,566	11,080	23,931
20%	8,769	12,121	31,691	57,934	63,984	51,170	26,603	12,353	13,371	17,266	10,982	23,302
30%	8,164	10,380	21,194	41,318	55,940	41,821	18,011	11,604	12,742	14,296	10,796	21,171
40%	7,981	9,237	17,702	28,066	43,996	30,782	15,285	11,092	11,853	13,342	10,577	15,579
50%	7,891	8,609	16,336	22,928	32,847	22,574	13,363	10,364	11,233	12,636	10,333	6,896
60%	7,870	7,940	13,685	19,586	22,299	17,435	12,171	9,646	10,701	12,343	9,683	6,650
70%	7,816	7,863	12,583	14,988	18,509	15,725	11,343	9,037	10,289	11,773	8,734	6,595
80%	7,655	7,666	9,913	12,874	16,673	13,489	10,154	8,418	9,791	11,041	8,421	6,535
90%	6,420	6,929	9,262	10,998	14,384	11,578	8,911	7,956	8,712	9,884	7,899	6,418
<b>Long Term</b>												
Full Simulation Period	8,350	10,798	22,082	31,475	37,498	30,725	19,501	11,009	11,566	13,675	9,771	13,116
<b>Water Year Types</b>												
Wet	8,996	14,634	37,088	51,035	56,945	47,194	30,753	12,279	11,846	17,045	8,777	23,150
Above Normal	9,290	10,029	19,595	40,534	52,912	37,168	18,221	12,048	12,038	14,830	9,005	15,709
Below Normal	8,183	9,236	16,398	24,715	25,957	23,572	16,492	11,386	12,357	12,801	10,142	6,570
Dry	7,696	9,129	14,297	16,142	24,160	21,042	12,961	10,471	11,580	11,715	11,004	6,583
Critical	7,362	7,663	10,980	13,674	15,968	13,022	10,454	7,796	9,644	9,526	10,173	6,975

**Future - Alternative 5**

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,257	16,693	50,759	65,452	69,822	59,676	45,827	14,062	14,731	19,564	11,081	23,931
20%	8,823	12,106	30,366	56,643	63,716	51,103	26,619	12,350	13,405	17,266	10,975	23,304
30%	8,221	10,363	20,560	39,016	54,306	40,793	18,008	11,602	12,750	14,302	10,796	21,171
40%	7,981	9,230	17,545	26,714	43,173	29,419	15,158	11,013	11,855	13,339	10,577	15,580
50%	7,891	8,589	16,200	22,327	31,796	22,175	13,360	10,364	11,209	12,614	10,275	6,895
60%	7,856	7,935	13,668	19,167	21,371	17,317	12,171	9,635	10,718	12,342	9,683	6,650
70%	7,814	7,859	12,537	14,906	18,136	15,649	11,338	9,037	10,289	11,776	8,734	6,595
80%	7,655	7,664	9,879	12,835	16,522	13,426	10,281	8,418	9,790	11,228	8,421	6,535
90%	6,454	6,927	9,261	10,984	14,368	11,586	8,911	7,949	8,712	9,848	7,901	6,418
<b>Long Term</b>												
Full Simulation Period	8,372	10,695	21,739	30,880	36,894	30,403	19,496	11,002	11,561	13,674	9,765	13,112
<b>Water Year Types</b>												
Wet	9,000	14,383	36,363	50,229	56,220	46,849	30,782	12,286	11,847	17,046	8,760	23,139
Above Normal	9,456	9,948	19,204	39,596	52,210	36,648	18,223	12,048	12,037	14,830	9,000	15,709
Below Normal	8,181	9,217	16,201	23,971	25,220	23,202	16,438	11,367	12,366	12,784	10,143	6,570
Dry	7,696	9,092	14,202	15,859	23,621	20,721	12,940	10,444	11,584	11,699	11,004	6,583
Critical	7,353	7,660	10,939	13,483	15,749	12,985	10,448	7,796	9,592	9,567	10,167	6,974

**Future - Alternative 5 Minus Future - Base**

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	23	-334	-894	-100	37	-726	0	0	-44	-2	0	0
20%	54	-16	-1,326	-1,291	-268	-67	17	-2	33	0	-7	2
30%	58	-17	-634	-2,302	-1,635	-1,028	-3	-2	8	6	1	0
40%	0	-7	-157	-1,352	-824	-1,363	-127	-78	2	-3	0	1
50%	0	-20	-136	-601	-1,051	-399	-3	0	-25	-21	-58	-1
60%	-14	-5	-18	-419	-928	-118	0	-11	17	0	0	0
70%	-2	-5	-46	-82	-373	-76	-5	0	0	3	0	0
80%	0	-2	-34	-39	-151	-63	127	0	0	187	0	0
90%	34	-2	-1	-14	-16	8	0	-7	0	-36	1	0
<b>Long Term</b>												
Full Simulation Period	22	-103	-343	-596	-604	-321	-5	-8	-5	0	-7	-4
<b>Water Year Types</b>												
Wet	4	-251	-725	-805	-725	-345	30	7	1	1	-17	-11
Above Normal	166	-81	-391	-938	-701	-520	2	0	-1	0	-4	0
Below Normal	-2	-19	-198	-744	-737	-370	-55	-19	9	-17	0	0
Dry	0	-36	-95	-283	-539	-321	-21	-27	4	-16	1	0
Critical	-9	-3	-41	-191	-218	-36	-6	0	-53	40	-6	-1

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	1,473	705	382	224	236	323	5,015	5,427	7,762	7,605	5,752	1,944	2,234
Future - Alternative 5	1,473	705	383	224	235	323	5,015	5,427	7,762	7,605	5,752	1,944	2,234
Difference	0	0	1	0	-1	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	1,422	667	363	222	239	272	4,539	5,521	8,164	8,101	6,181	2,142	2,294
Future - Alternative 5	1,422	667	363	223	240	272	4,539	5,521	8,164	8,101	6,180	2,142	2,294
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	1,457	694	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186	2,288
Future - Alternative 5	1,454	694	376	226	236	239	4,896	5,545	7,961	7,971	5,944	2,186	2,287
Difference	-2	0	0	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%
<b>Below Normal</b>													
Future - Base	1,574	746	411	234	233	328	5,295	5,621	7,827	7,667	5,800	1,881	2,280
Future - Alternative 5	1,574	746	417	234	227	328	5,295	5,621	7,827	7,667	5,800	1,881	2,281
Difference	0	0	7	0	-6	0	0	0	1	1	0	0	0
Percent Difference	0%	0%	2%	0%	-3%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793	2,233
Future - Alternative 5	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793	2,233
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613	2,004
Future - Alternative 5	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613	2,004
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,805	942	487	299	267	609	6,547	6,089	8,526	8,483	6,489	2,345
20%	1,755	883	457	252	247	417	5,972	5,927	8,171	8,021	6,143	2,197
30%	1,658	800	416	226	238	324	5,606	5,855	8,035	7,830	5,984	2,126
40%	1,589	744	392	214	238	246	5,384	5,734	7,885	7,765	5,908	2,076
50%	1,479	674	372	213	238	223	5,166	5,604	7,789	7,720	5,830	1,992
60%	1,378	629	349	213	232	214	4,809	5,360	7,687	7,626	5,729	1,927
70%	1,309	601	337	211	230	212	4,680	5,116	7,576	7,431	5,626	1,790
80%	1,217	552	310	198	212	212	4,277	4,968	7,405	7,212	5,449	1,713
90%	1,119	511	297	183	206	199	3,070	4,539	7,117	7,088	5,246	1,500
<b>Long Term</b>												
Full Simulation Period	1,473	705	382	224	236	323	5,015	5,427	7,762	7,605	5,752	1,944
<b>Water Year Types</b>												
Wet	1,422	667	363	222	239	272	4,539	5,521	8,164	8,101	6,181	2,142
Above Normal	1,457	694	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186
Below Normal	1,574	746	411	234	233	328	5,295	5,621	7,827	7,667	5,800	1,881
Dry	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793
Critical	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613

Future - Alternative 5

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,805	942	487	299	267	609	6,547	6,089	8,526	8,483	6,490	2,345
20%	1,755	883	457	252	247	416	5,972	5,927	8,170	8,021	6,143	2,197
30%	1,657	800	423	226	238	324	5,606	5,864	8,035	7,830	5,984	2,126
40%	1,589	744	394	214	238	246	5,384	5,734	7,885	7,765	5,909	2,076
50%	1,479	674	376	213	238	223	5,166	5,603	7,789	7,720	5,830	1,993
60%	1,378	629	350	213	231	214	4,809	5,360	7,685	7,633	5,728	1,926
70%	1,309	601	337	211	230	212	4,680	5,116	7,576	7,438	5,626	1,791
80%	1,217	552	310	198	210	212	4,277	4,968	7,402	7,209	5,449	1,713
90%	1,119	511	297	183	203	199	3,070	4,539	7,116	7,088	5,246	1,499
<b>Long Term</b>												
Full Simulation Period	1,473	705	383	224	235	323	5,015	5,427	7,762	7,605	5,752	1,944
<b>Water Year Types</b>												
Wet	1,422	667	363	223	240	272	4,539	5,521	8,164	8,101	6,180	2,142
Above Normal	1,454	694	376	226	236	239	4,896	5,545	7,961	7,971	5,944	2,186
Below Normal	1,574	746	417	234	227	328	5,295	5,621	7,827	7,667	5,800	1,881
Dry	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793
Critical	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613

Future - Alternative 5 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	0	0	0	0	0	0	0	0	0	1	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	-1	0	8	0	0	0	0	9	0	0	0	0
40%	0	0	2	0	0	0	0	0	0	-1	1	0
50%	0	0	4	0	0	0	0	-1	0	-1	0	0
60%	0	0	1	0	0	0	0	0	-2	7	-1	-1
70%	0	0	0	0	0	0	0	0	0	7	0	1
80%	0	0	0	0	-3	0	0	-1	-3	-2	0	0
90%	0	0	0	0	-3	1	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	0	1	0	-1	0	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	-2	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	7	0	-6	0	0	0	1	1	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	2,541	1,483	1,013	1,043	1,435	1,900	2,274	3,350	4,776	5,105	4,521	3,213	1,977
Future - Alternative 5	2,541	1,483	1,013	1,043	1,434	1,900	2,274	3,350	4,776	5,104	4,521	3,213	1,977
Difference	0	0	0	0	0	0	0	0	-1	-1	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	2,628	1,550	1,095	1,170	1,593	2,232	2,721	3,999	5,835	6,367	5,454	3,566	2,313
Future - Alternative 5	2,628	1,550	1,095	1,170	1,593	2,231	2,720	3,998	5,833	6,365	5,453	3,565	2,313
Difference	0	0	0	0	0	-1	0	-1	-1	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	2,596	1,530	1,079	1,152	1,565	2,038	2,507	3,669	5,292	5,715	4,982	3,398	2,150
Future - Alternative 5	2,596	1,530	1,079	1,151	1,565	2,038	2,507	3,669	5,291	5,714	4,981	3,398	2,150
Difference	0	0	0	0	-1	0	0	0	-1	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	2,569	1,496	1,013	1,030	1,414	1,790	2,113	3,233	4,568	4,845	4,352	3,183	1,913
Future - Alternative 5	2,570	1,496	1,013	1,031	1,416	1,792	2,114	3,232	4,568	4,845	4,351	3,183	1,914
Difference	1	0	1	1	1	2	1	0	-1	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	2,498	1,450	976	989	1,372	1,737	2,052	3,009	4,201	4,404	4,029	3,068	1,802
Future - Alternative 5	2,498	1,449	976	989	1,370	1,739	2,052	3,009	4,201	4,404	4,030	3,068	1,802
Difference	0	0	-1	-1	-1	2	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	2,345	1,334	839	773	1,100	1,443	1,639	2,349	3,196	3,259	3,082	2,556	1,447
Future - Alternative 5	2,345	1,334	839	773	1,099	1,443	1,639	2,349	3,196	3,259	3,082	2,556	1,447
Difference	0	0	0	0	-1	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%



Total CVP Deliveries South of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,941	1,798	1,415	1,688	2,240	2,237	2,991	4,427	6,543	7,218	6,075	3,780
20%	2,680	1,582	1,131	1,233	1,686	2,097	2,545	3,727	5,389	5,832	5,065	3,423
30%	2,638	1,550	1,086	1,155	1,563	2,032	2,485	3,587	5,156	5,552	4,863	3,357
40%	2,592	1,514	1,037	1,069	1,461	1,991	2,369	3,431	4,896	5,239	4,638	3,283
50%	2,558	1,488	1,001	1,006	1,392	1,953	2,330	3,318	4,708	5,013	4,475	3,229
60%	2,543	1,477	986	979	1,342	1,867	2,220	3,270	4,627	4,915	4,405	3,206
70%	2,503	1,445	943	909	1,280	1,698	2,023	3,147	4,424	4,671	4,227	3,144
80%	2,317	1,285	758	649	946	1,506	1,789	2,595	3,551	3,699	3,435	2,852
90%	2,252	1,229	666	483	770	1,506	1,565	2,402	3,208	3,212	3,156	2,749
<b>Long Term</b>												
Full Simulation Period	2,541	1,483	1,013	1,043	1,435	1,900	2,274	3,350	4,776	5,105	4,521	3,213
<b>Water Year Types</b>												
Wet	2,628	1,550	1,095	1,170	1,593	2,232	2,721	3,999	5,835	6,367	5,454	3,566
Above Normal	2,596	1,530	1,079	1,152	1,565	2,038	2,507	3,669	5,292	5,715	4,982	3,398
Below Normal	2,569	1,496	1,013	1,030	1,414	1,790	2,113	3,233	4,568	4,845	4,352	3,183
Dry	2,498	1,450	976	989	1,372	1,737	2,052	3,009	4,201	4,404	4,029	3,068
Critical	2,345	1,334	839	773	1,100	1,443	1,639	2,349	3,196	3,259	3,082	2,556

Future - Alternative 5

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,941	1,798	1,415	1,688	2,240	2,237	2,989	4,427	6,543	7,217	6,075	3,780
20%	2,680	1,582	1,131	1,233	1,686	2,097	2,545	3,727	5,389	5,832	5,065	3,423
30%	2,638	1,550	1,086	1,155	1,563	2,032	2,486	3,587	5,156	5,552	4,863	3,357
40%	2,591	1,514	1,037	1,069	1,461	1,990	2,368	3,431	4,896	5,239	4,638	3,283
50%	2,557	1,488	1,001	1,005	1,396	1,952	2,329	3,316	4,704	5,008	4,471	3,228
60%	2,543	1,477	986	979	1,341	1,867	2,229	3,270	4,627	4,915	4,405	3,206
70%	2,503	1,444	943	909	1,280	1,701	2,023	3,145	4,422	4,669	4,225	3,143
80%	2,316	1,284	758	648	945	1,506	1,789	2,592	3,547	3,692	3,431	2,850
90%	2,252	1,229	666	483	770	1,506	1,565	2,402	3,208	3,212	3,156	2,749
<b>Long Term</b>												
Full Simulation Period	2,541	1,483	1,013	1,043	1,434	1,900	2,274	3,350	4,776	5,104	4,521	3,213
<b>Water Year Types</b>												
Wet	2,628	1,550	1,095	1,170	1,593	2,231	2,720	3,998	5,833	6,365	5,453	3,565
Above Normal	2,596	1,530	1,079	1,151	1,565	2,038	2,507	3,669	5,291	5,714	4,981	3,398
Below Normal	2,570	1,496	1,013	1,031	1,416	1,792	2,114	3,232	4,568	4,845	4,351	3,183
Dry	2,498	1,449	976	989	1,370	1,739	2,052	3,009	4,201	4,404	4,030	3,068
Critical	2,345	1,334	839	773	1,099	1,443	1,639	2,349	3,196	3,259	3,082	2,556

Future - Alternative 5 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	-1	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	-1	0	0	0	0	0
50%	-1	-1	-1	-1	3	-1	-1	-2	-4	-5	-3	-1
60%	0	0	0	0	-1	0	9	0	0	0	0	0
70%	0	0	0	-1	-1	3	0	-1	-2	-2	-2	-1
80%	-1	-1	-1	-1	-1	0	0	-3	-5	-6	-4	-1
90%	0	0	0	0	0	0	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	0	0	0	0	0	0	0	-1	-1	0	0
<b>Water Year Types</b>												
Wet	0	0	0	0	0	-1	0	-1	-1	-1	-1	0
Above Normal	0	0	0	0	-1	0	0	0	-1	-1	-1	0
Below Normal	1	0	1	1	1	2	1	0	-1	-1	-1	0
Dry	0	0	-1	-1	-1	2	0	0	0	0	0	0
Critical	0	0	0	0	-1	0	0	0	0	0	0	0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	1,383	1,394	894	328	13	89	2,005	2,578	3,092	3,044	2,413	1,806	1,154
Future - Alternative 5	1,382	1,393	894	326	13	89	2,005	2,578	3,092	3,044	2,413	1,806	1,154
Difference	0	-1	0	-2	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	1,303	1,401	853	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074	1,213
Future - Alternative 5	1,316	1,417	863	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074	1,215
Difference	13	16	10	0	0	0	0	0	0	0	0	0	2
Percent Difference	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204	1,275
Future - Alternative 5	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204	1,275
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	1,651	1,640	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792	1,216
Future - Alternative 5	1,651	1,639	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792	1,216
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	1,337	1,248	830	347	9	103	2,053	2,604	3,083	2,985	2,385	1,750	1,136
Future - Alternative 5	1,319	1,224	815	339	9	103	2,053	2,604	3,082	2,985	2,385	1,750	1,132
Difference	-18	-24	-14	-8	0	0	0	0	0	0	0	0	-4
Percent Difference	-1%	-2%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967	881
Future - Alternative 5	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967	881
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,163	2,065	1,372	614	20	198	2,860	3,128	3,657	3,561	2,846	2,296
20%	2,011	1,961	1,290	520	20	128	2,556	3,038	3,510	3,477	2,800	2,233
30%	1,827	1,898	1,219	469	20	45	2,378	2,974	3,442	3,369	2,687	2,175
40%	1,653	1,843	1,157	443	19	45	2,110	2,899	3,373	3,302	2,608	2,118
50%	1,404	1,703	1,024	383	15	45	2,006	2,738	3,312	3,227	2,577	2,049
60%	1,320	1,495	940	266	11	45	1,845	2,648	3,201	3,168	2,531	1,963
70%	1,203	1,193	681	154	4	45	1,739	2,470	3,116	3,106	2,484	1,662
80%	861	570	347	60	3	32	1,397	1,931	2,987	2,952	2,290	1,247
90%	277	53	12	11	2	20	1,141	1,669	1,927	1,929	1,506	987
<b>Long Term</b>												
Full Simulation Period	1,383	1,394	894	328	13	89	2,005	2,578	3,092	3,044	2,413	1,806
<b>Water Year Types</b>												
Wet	1,303	1,401	853	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074
Above Normal	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204
Below Normal	1,651	1,640	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792
Dry	1,337	1,248	830	347	9	103	2,053	2,604	3,083	2,985	2,385	1,750
Critical	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967

Future - Alternative 5

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,163	2,065	1,372	611	20	198	2,860	3,128	3,657	3,561	2,846	2,296
20%	1,976	1,951	1,290	513	20	128	2,556	3,038	3,510	3,477	2,800	2,233
30%	1,796	1,893	1,219	464	20	45	2,378	2,974	3,442	3,369	2,686	2,175
40%	1,653	1,825	1,151	443	19	45	2,110	2,899	3,373	3,302	2,608	2,118
50%	1,404	1,672	991	383	15	45	2,006	2,738	3,312	3,227	2,577	2,049
60%	1,320	1,486	931	266	11	45	1,845	2,648	3,200	3,168	2,531	1,963
70%	1,203	1,193	681	154	4	45	1,739	2,470	3,116	3,106	2,484	1,662
80%	860	570	347	60	3	31	1,397	1,931	2,987	2,952	2,290	1,247
90%	311	79	12	11	2	20	1,141	1,669	1,927	1,929	1,506	987
<b>Long Term</b>												
Full Simulation Period	1,382	1,393	894	326	13	89	2,005	2,578	3,092	3,044	2,413	1,806
<b>Water Year Types</b>												
Wet	1,316	1,417	863	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074
Above Normal	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204
Below Normal	1,651	1,639	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792
Dry	1,319	1,224	815	339	9	103	2,053	2,604	3,082	2,985	2,385	1,750
Critical	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967

Future - Alternative 5 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	-3	0	0	0	0	0	0	0	0
20%	-35	-11	0	-7	0	0	0	0	0	0	0	0
30%	-30	-4	0	-5	0	0	0	0	0	0	0	0
40%	0	-17	-6	0	0	0	0	0	0	0	0	0
50%	0	-30	-34	0	0	0	0	0	0	0	0	0
60%	0	-9	-8	0	0	0	0	0	0	0	-1	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	34	26	0	0	0	-1	0	0	0	0	0	-1
<b>Long Term</b>												
Full Simulation Period	0	-1	0	-2	0	0	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	13	16	10	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	-18	-24	-14	-8	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	0	0	0	0	0	0	0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	4,043	2,984	3,596	472	840	1,531	2,542	3,813	5,165	5,535	5,706	4,829	2,489
Future - Alternative 5	4,042	2,980	3,581	469	838	1,522	2,533	3,804	5,157	5,530	5,700	4,824	2,484
Difference	-1	-4	-15	-3	-2	-9	-10	-9	-8	-4	-6	-6	-5
Percent Difference	0%	0%	0%	-1%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	4,344	2,993	4,138	1,107	1,816	2,666	3,835	5,364	6,773	6,814	7,151	6,006	3,210
Future - Alternative 5	4,355	2,994	4,105	1,106	1,813	2,664	3,834	5,363	6,771	6,812	7,149	6,004	3,208
Difference	10	1	-33	-1	-3	-1	-1	-1	-2	-2	-2	-2	-2
Percent Difference	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	4,230	3,445	3,981	275	949	2,295	3,530	4,967	6,244	6,377	6,711	5,656	2,949
Future - Alternative 5	4,220	3,439	3,973	253	948	2,291	3,527	4,964	6,239	6,371	6,707	5,651	2,945
Difference	-10	-7	-8	-21	-1	-4	-3	-4	-5	-5	-4	-4	-5
Percent Difference	0%	0%	0%	-8%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	4,466	3,200	3,761	277	460	940	2,653	3,955	5,476	6,029	6,261	5,329	2,596
Future - Alternative 5	4,461	3,196	3,757	276	459	894	2,636	3,950	5,468	6,020	6,248	5,319	2,589
Difference	-5	-4	-4	0	-1	-47	-17	-4	-8	-9	-13	-11	-7
Percent Difference	0%	0%	0%	0%	0%	-5%	-1%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	3,825	2,760	3,103	122	199	821	1,523	2,587	4,084	4,826	4,854	4,140	1,994
Future - Alternative 5	3,819	2,752	3,096	122	196	818	1,502	2,560	4,070	4,829	4,854	4,137	1,988
Difference	-6	-9	-7	0	-3	-2	-22	-27	-13	3	1	-2	-5
Percent Difference	0%	0%	0%	0%	-2%	0%	-1%	-1%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	3,125	2,678	2,710	71	105	198	415	1,284	2,155	2,635	2,470	2,132	1,213
Future - Alternative 5	3,122	2,674	2,703	71	105	197	409	1,278	2,144	2,620	2,453	2,117	1,208
Difference	-3	-4	-8	0	0	-1	-6	-6	-11	-16	-17	-15	-5
Percent Difference	0%	0%	0%	0%	0%	0%	-1%	0%	-1%	-1%	-1%	-1%	0%

Total SWP Deliveries South of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6,024	4,586	5,669	1,962	2,014	2,905	4,303	5,987	7,491	7,386	7,710	6,606
20%	5,428	4,361	5,320	595	1,939	2,706	3,782	5,413	6,881	7,045	7,177	6,208
30%	5,007	4,042	4,484	231	1,754	2,547	3,546	4,855	6,162	6,469	6,763	5,710
40%	4,894	3,793	4,121	172	634	2,500	3,396	4,756	6,020	6,231	6,634	5,517
50%	4,695	3,368	3,879	145	305	1,970	3,227	4,579	5,814	6,154	6,532	5,440
60%	4,383	2,362	3,600	104	193	456	2,566	3,547	5,530	5,944	6,369	5,228
70%	2,920	2,054	2,708	91	137	337	1,514	2,544	4,505	5,640	5,920	4,934
80%	2,451	1,296	1,887	72	112	220	520	2,078	3,482	4,247	3,946	3,332
90%	1,299	897	964	56	55	146	301	1,184	1,956	2,357	2,163	1,854
<b>Long Term</b>												
Full Simulation Period	4,043	2,984	3,596	472	840	1,531	2,542	3,813	5,165	5,535	5,706	4,829
<b>Water Year Types</b>												
Wet	4,344	2,993	4,138	1,107	1,816	2,666	3,835	5,364	6,773	6,814	7,151	6,006
Above Normal	4,230	3,445	3,981	275	949	2,295	3,530	4,967	6,244	6,377	6,711	5,656
Below Normal	4,466	3,200	3,761	277	460	940	2,653	3,955	5,476	6,029	6,261	5,329
Dry	3,825	2,760	3,103	122	199	821	1,523	2,587	4,084	4,826	4,854	4,140
Critical	3,125	2,678	2,710	71	105	198	415	1,284	2,155	2,635	2,470	2,132

Future - Alternative 5

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6,027	4,586	5,670	1,965	2,014	2,904	4,306	5,988	7,493	7,390	7,707	6,606
20%	5,430	4,362	5,319	595	1,939	2,681	3,783	5,413	6,881	7,037	7,166	6,209
30%	5,007	4,042	4,484	233	1,748	2,584	3,547	4,855	6,161	6,496	6,778	5,705
40%	4,894	3,772	4,112	172	615	2,486	3,347	4,756	6,020	6,233	6,635	5,523
50%	4,683	3,356	3,869	145	308	1,942	3,227	4,570	5,805	6,155	6,532	5,437
60%	4,351	2,366	3,526	107	193	456	2,509	3,437	5,488	5,940	6,348	5,226
70%	2,959	2,042	2,499	91	137	335	1,470	2,534	4,488	5,642	5,901	4,936
80%	2,467	1,299	1,886	72	111	219	525	2,095	3,512	4,279	3,975	3,353
90%	1,299	894	956	56	55	145	297	1,171	1,934	2,330	2,138	1,848
<b>Long Term</b>												
Full Simulation Period	4,042	2,980	3,581	469	838	1,522	2,533	3,804	5,157	5,530	5,700	4,824
<b>Water Year Types</b>												
Wet	4,355	2,994	4,105	1,106	1,813	2,664	3,834	5,363	6,771	6,812	7,149	6,004
Above Normal	4,220	3,439	3,973	253	948	2,291	3,527	4,964	6,239	6,371	6,707	5,651
Below Normal	4,461	3,196	3,757	276	459	894	2,636	3,950	5,468	6,020	6,248	5,319
Dry	3,819	2,752	3,096	122	196	818	1,502	2,560	4,070	4,829	4,854	4,137
Critical	3,122	2,674	2,703	71	105	197	409	1,278	2,144	2,620	2,453	2,117

Future - Alternative 5 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3	1	1	3	0	-1	3	1	2	4	-2	0
20%	2	0	-1	-1	0	-25	0	0	1	-9	-11	1
30%	-1	0	0	2	-6	36	1	-1	-1	27	15	-5
40%	0	-21	-10	0	-19	-15	-50	0	0	2	1	6
50%	-12	-12	-10	0	4	-28	0	-9	-8	1	0	-3
60%	-33	4	-75	3	0	0	-57	-110	-42	-4	-21	-2
70%	39	-12	-209	0	0	-2	-44	-9	-17	2	-19	2
80%	16	3	-1	0	0	-1	5	17	30	32	29	21
90%	0	-3	-9	0	0	-1	-3	-13	-22	-27	-24	-6
<b>Long Term</b>												
Full Simulation Period	-1	-4	-15	-3	-2	-9	-10	-9	-8	-4	-6	-6
<b>Water Year Types</b>												
Wet	10	1	-33	-1	-3	-1	-1	-1	-2	-2	-2	-2
Above Normal	-10	-7	-8	-21	-1	-4	-3	-4	-5	-5	-4	-4
Below Normal	-5	-4	-4	0	-1	-47	-17	-4	-8	-9	-13	-11
Dry	-6	-9	-7	0	-3	-2	-22	-27	-13	3	1	-2
Critical	-3	-4	-8	0	0	-1	-6	-6	-11	-16	-17	-15

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

Analysis Period	Average Flow (cfs)												Total (TAF)	
	October	November	December	January	February	March	April	May	June	July	August	September		
<b>Long-Term</b>														
<b>Full Simulation Period</b>														
Future - Base	43	57	2,754	12,157	16,930	8,465	1,050	3	0	0	0	0	0	2,453
Future - Alternative 5	43	162	3,104	12,792	17,614	8,794	1,050	3	0	0	0	0	0	2,579
Difference	0	105	350	635	684	329	0	0	0	0	0	0	0	125
Percent Difference	0%	185%	13%	5%	4%	4%	0%	0%	0%	0%	0%	0%	0%	5%
<b>Water Year-Types</b>														
<b>Wet</b>														
Future - Base	135	180	7,592	34,147	41,220	23,151	3,236	10	0	0	0	0	0	6,503
Future - Alternative 5	135	447	8,376	35,015	42,013	23,454	3,236	10	0	0	0	0	0	6,683
Difference	0	267	784	867	794	303	0	0	0	0	0	0	0	180
Percent Difference	0%	148%	10%	3%	2%	1%	0%	0%	0%	0%	0%	0%	0%	3%
<b>Above Normal</b>														
Future - Base	0	0	946	9,205	25,241	6,208	14	0	0	0	0	0	0	2,432
Future - Alternative 5	0	70	1,198	10,133	26,065	6,715	14	0	0	0	0	0	0	2,586
Difference	0	70	253	928	823	506	0	0	0	0	0	0	0	154
Percent Difference	0%	0%	27%	10%	3%	8%	0%	0%	0%	0%	0%	0%	0%	6%
<b>Below Normal</b>														
Future - Base	0	0	1,390	583	1,456	737	137	0	0	0	0	0	0	257
Future - Alternative 5	0	19	1,599	1,381	2,258	1,179	137	0	0	0	0	0	0	392
Difference	0	19	209	798	802	442	0	0	0	0	0	0	0	135
Percent Difference	0%	0%	15%	137%	55%	60%	0%	0%	0%	0%	0%	0%	0%	53%
<b>Dry</b>														
Future - Base	0	0	0	11	981	717	0	0	0	0	0	0	0	99
Future - Alternative 5	0	32	116	331	1,613	1,071	0	0	0	0	0	0	0	185
Difference	0	32	116	321	632	353	0	0	0	0	0	0	0	86
Percent Difference	0%	0%	0%	2965%	64%	49%	0%	0%	0%	0%	0%	0%	0%	86%
<b>Critical</b>														
Future - Base	0	0	0	0	26	0	0	0	0	0	0	0	0	1
Future - Alternative 5	0	3	39	209	304	62	0	0	0	0	0	0	0	37
Difference	0	3	39	209	278	62	0	0	0	0	0	0	0	35
Percent Difference	0%	0%	0%	0%	1067%	0%	0%	0%	0%	0%	0%	0%	0%	2340%

Fremont Weir Spill to Yolo Bypass

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	9,636	45,653	68,479	26,076	480	0	0	0	0	0
20%	0	0	417	14,794	32,134	7,332	2	0	0	0	0	0
30%	0	0	0	2,685	10,131	3,487	0	0	0	0	0	0
40%	0	0	0	83	4,103	180	0	0	0	0	0	0
50%	0	0	0	0	501	0	0	0	0	0	0	0
60%	0	0	0	0	3	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	43	57	2,754	12,157	16,930	8,465	1,050	3	0	0	0	0
<b>Water Year Types</b>												
Wet	135	180	7,592	34,147	41,220	23,151	3,236	10	0	0	0	0
Above Normal	0	0	946	9,205	25,241	6,208	14	0	0	0	0	0
Below Normal	0	0	1,390	583	1,456	737	137	0	0	0	0	0
Dry	0	0	0	11	981	717	0	0	0	0	0	0
Critical	0	0	0	0	26	0	0	0	0	0	0	0

Future - Alternative 5

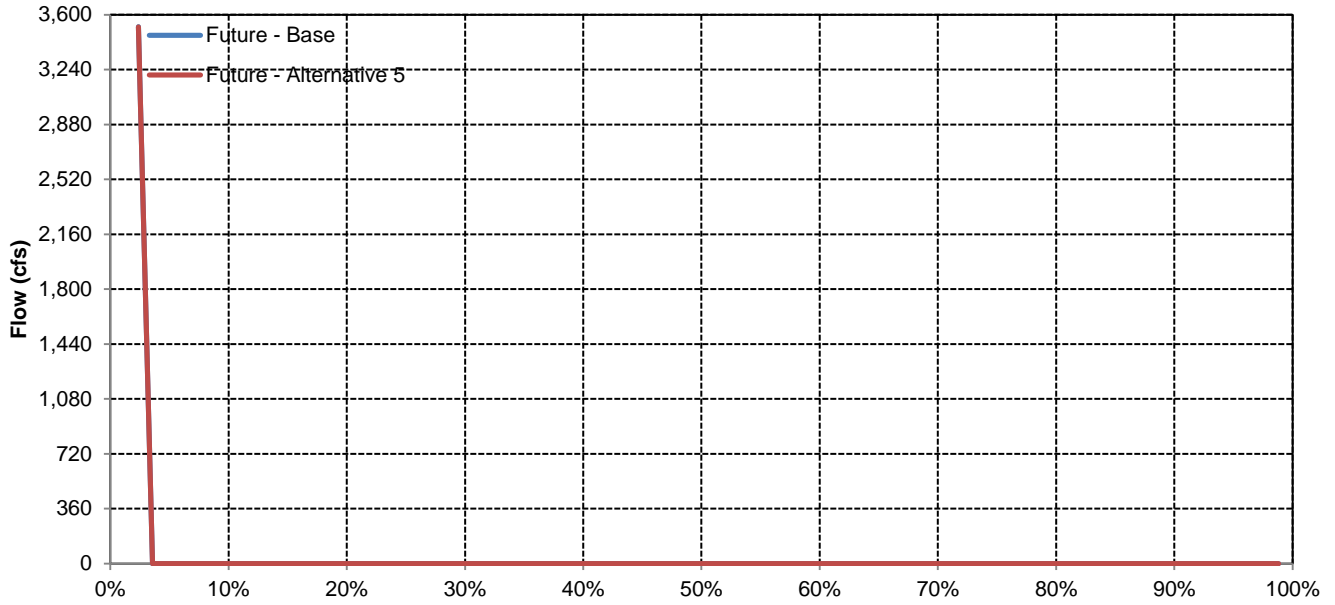
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	229	9,793	45,653	68,636	26,337	480	0	0	0	0	0
20%	0	61	2,077	15,735	32,643	7,645	2	0	0	0	0	0
30%	0	19	450	4,701	11,442	4,002	0	0	0	0	0	0
40%	0	8	249	1,876	5,422	1,514	0	0	0	0	0	0
50%	0	5	124	816	2,273	477	0	0	0	0	0	0
60%	0	4	29	441	1,033	230	0	0	0	0	0	0
70%	0	4	9	96	421	130	0	0	0	0	0	0
80%	0	3	5	24	170	23	0	0	0	0	0	0
90%	0	3	3	9	29	6	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	43	162	3,104	12,792	17,614	8,794	1,050	3	0	0	0	0
<b>Water Year Types</b>												
Wet	135	447	8,376	35,015	42,013	23,454	3,236	10	0	0	0	0
Above Normal	0	70	1,198	10,133	26,065	6,715	14	0	0	0	0	0
Below Normal	0	19	1,599	1,381	2,258	1,179	137	0	0	0	0	0
Dry	0	32	116	331	1,613	1,071	0	0	0	0	0	0
Critical	0	3	39	209	304	62	0	0	0	0	0	0

Future - Alternative 5 Minus Future - Base

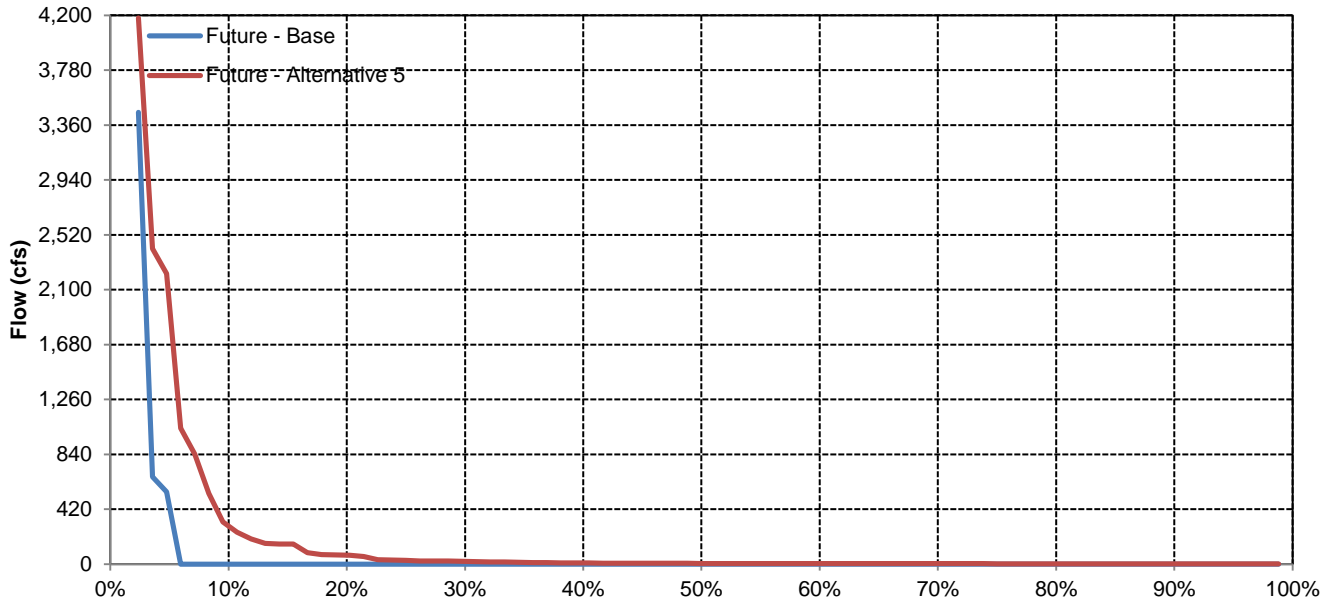
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	229	157	0	157	261	0	0	0	0	0	0
20%	0	61	1,660	942	508	314	0	0	0	0	0	0
30%	0	19	450	2,016	1,311	514	0	0	0	0	0	0
40%	0	8	249	1,793	1,319	1,334	0	0	0	0	0	0
50%	0	5	124	816	1,772	477	0	0	0	0	0	0
60%	0	4	29	441	1,030	230	0	0	0	0	0	0
70%	0	4	9	96	421	130	0	0	0	0	0	0
80%	0	3	5	24	170	23	0	0	0	0	0	0
90%	0	3	3	9	29	6	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	105	350	635	684	329	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	0	267	784	867	794	303	0	0	0	0	0	0
Above Normal	0	70	253	928	823	506	0	0	0	0	0	0
Below Normal	0	19	209	798	802	442	0	0	0	0	0	0
Dry	0	32	116	321	632	353	0	0	0	0	0	0
Critical	0	3	39	209	278	62	0	0	0	0	0	0

# Fremont Weir Spill to Yolo Bypass

## October



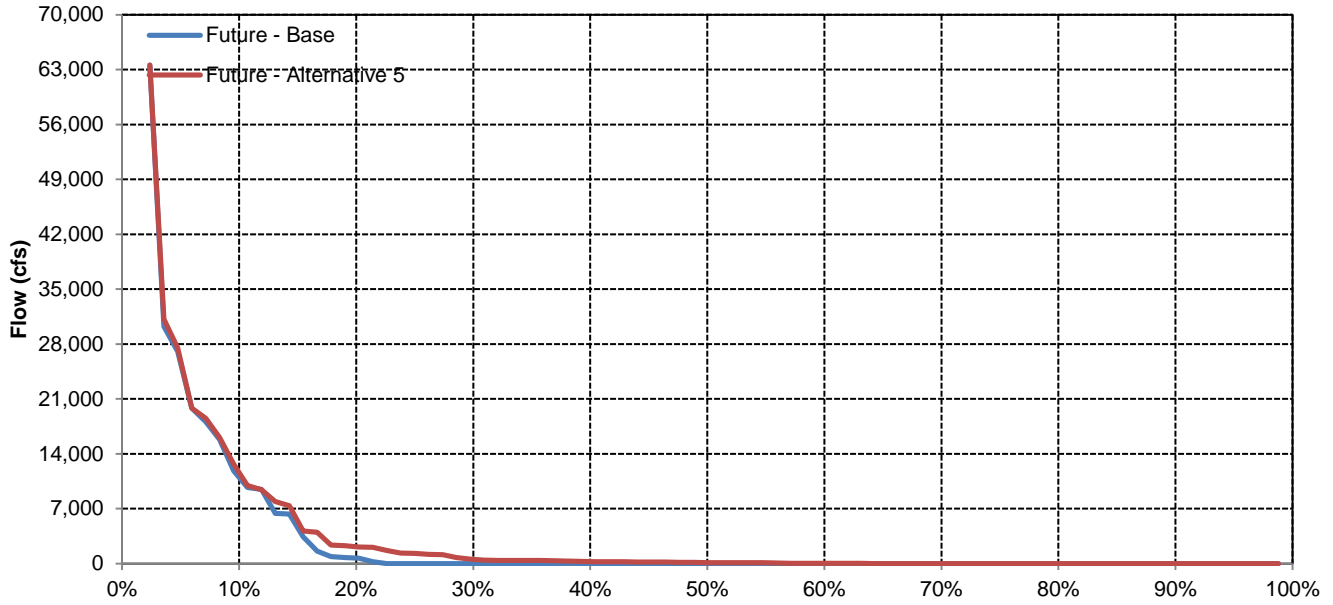
## November



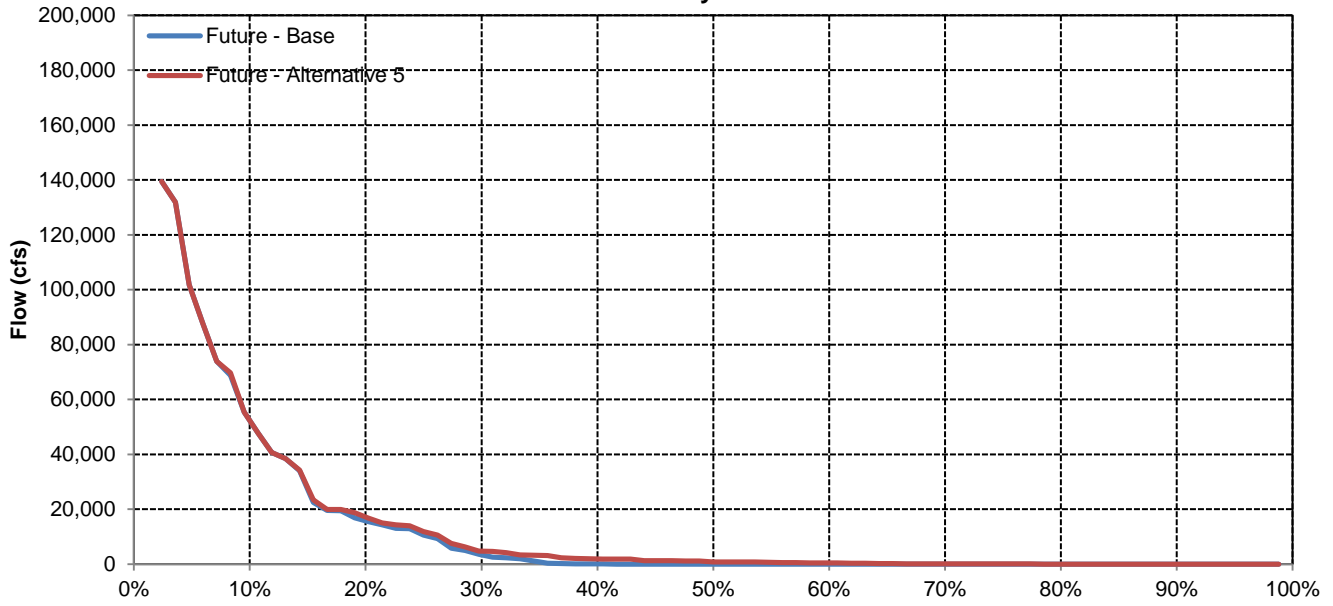


# Fremont Weir Spill to Yolo Bypass

## December

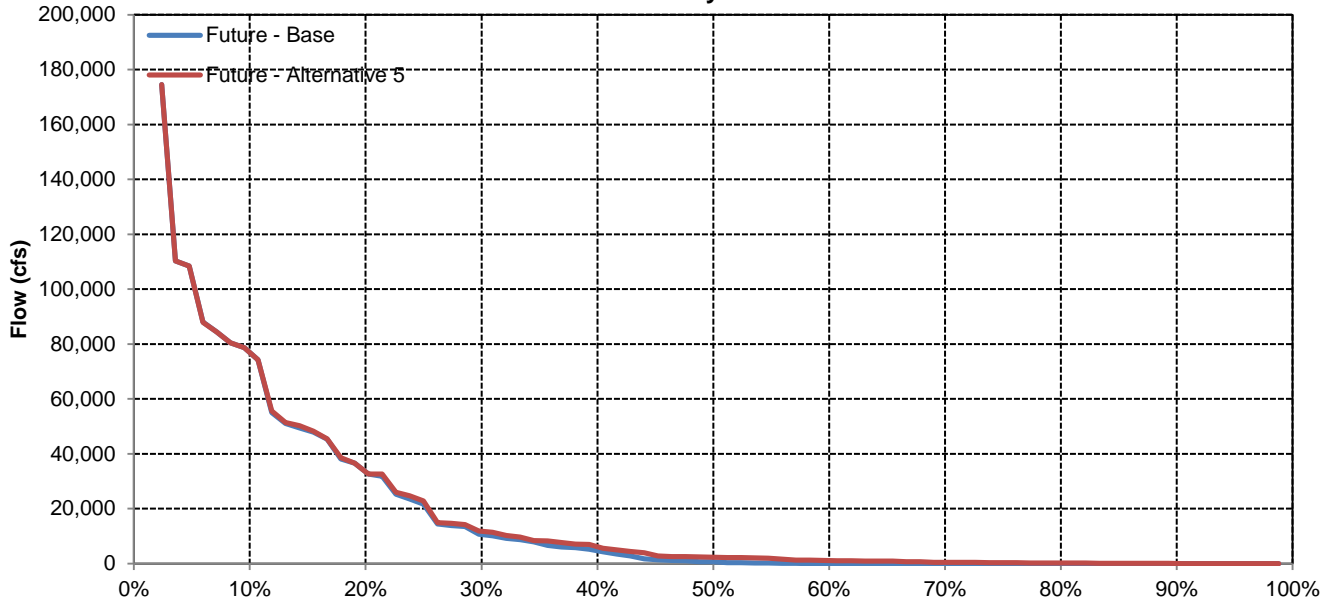


## January

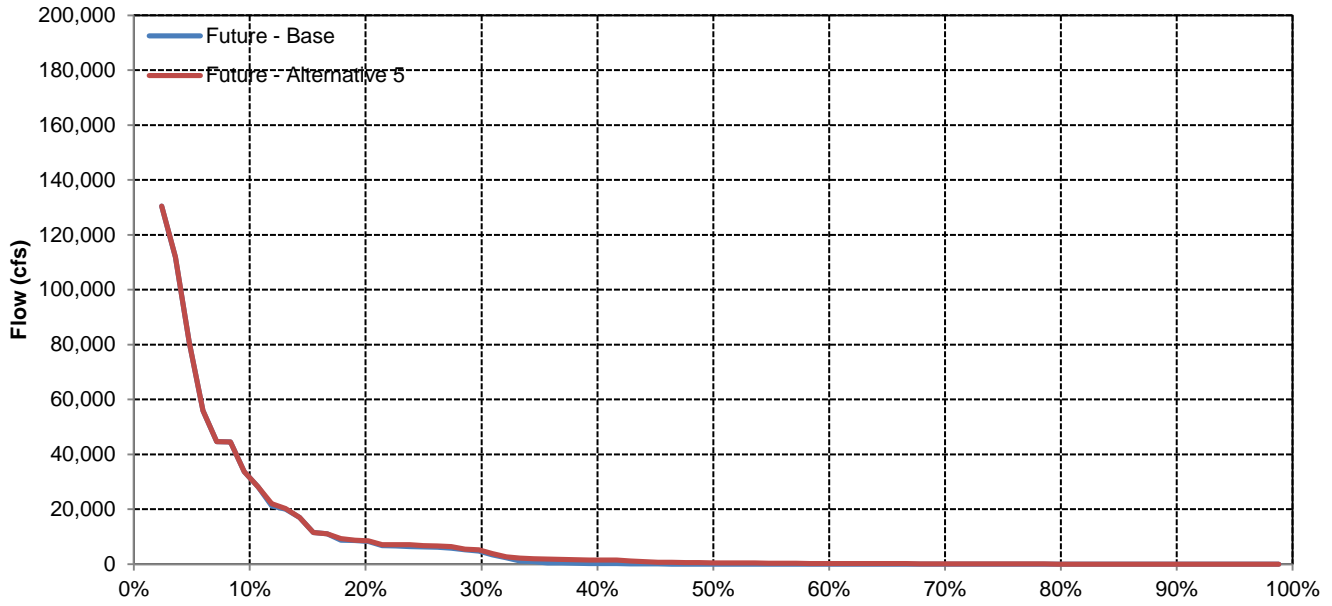


# Fremont Weir Spill to Yolo Bypass

## February

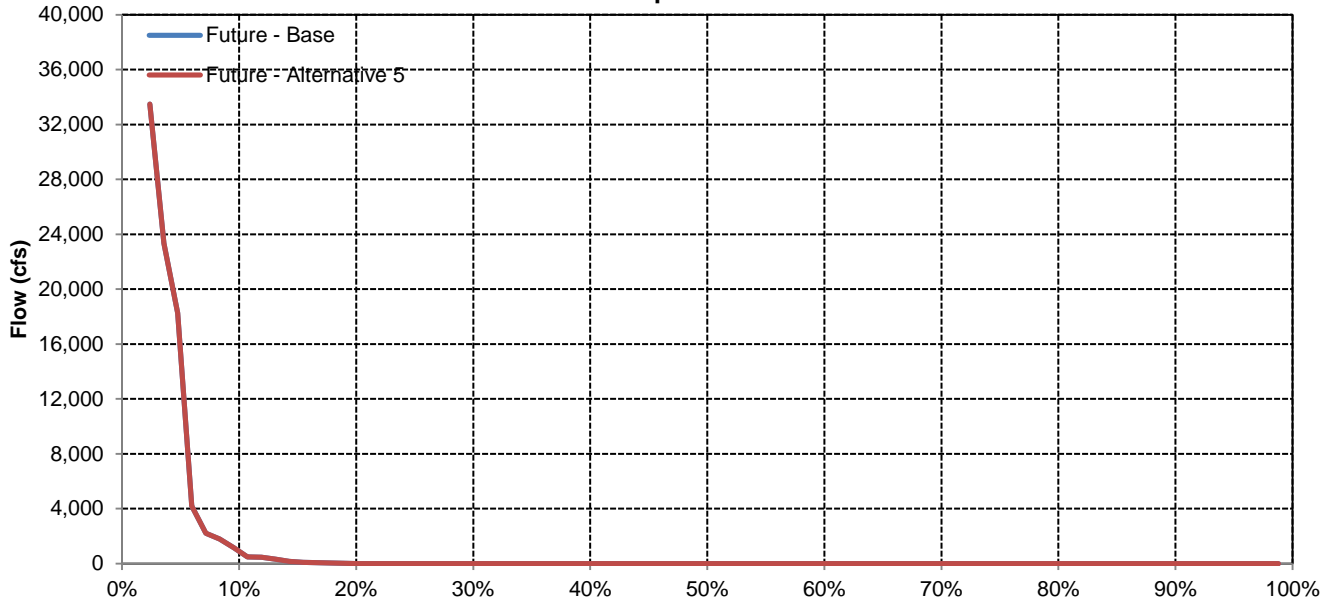


## March

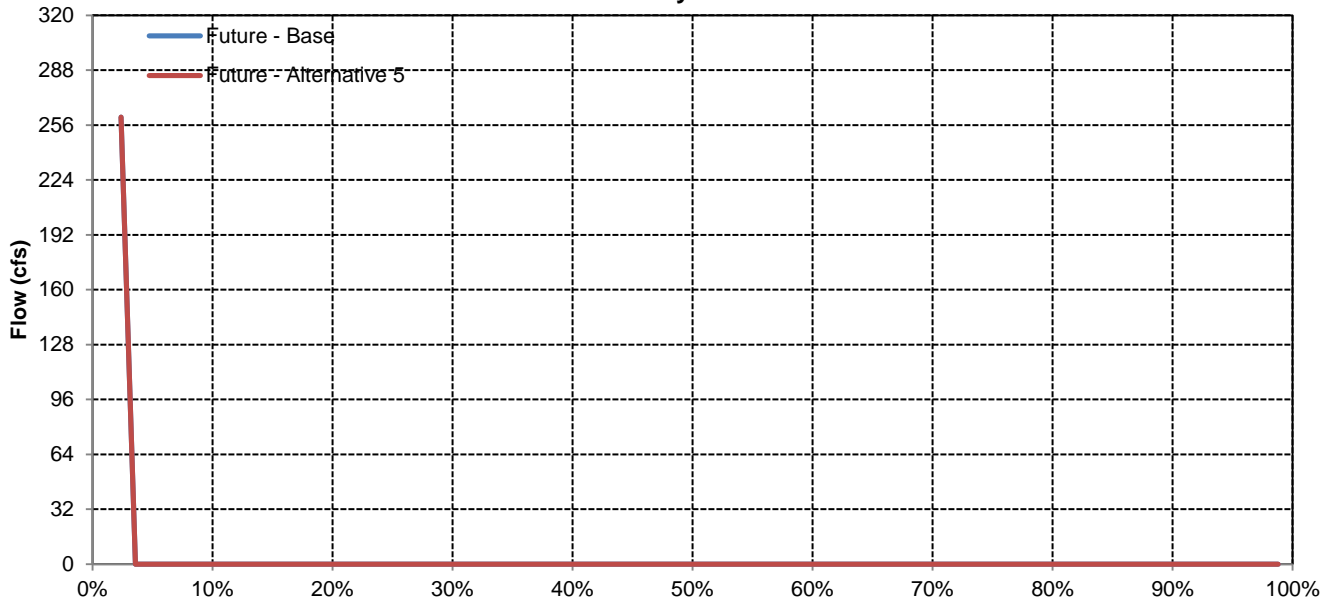


# Fremont Weir Spill to Yolo Bypass

## April

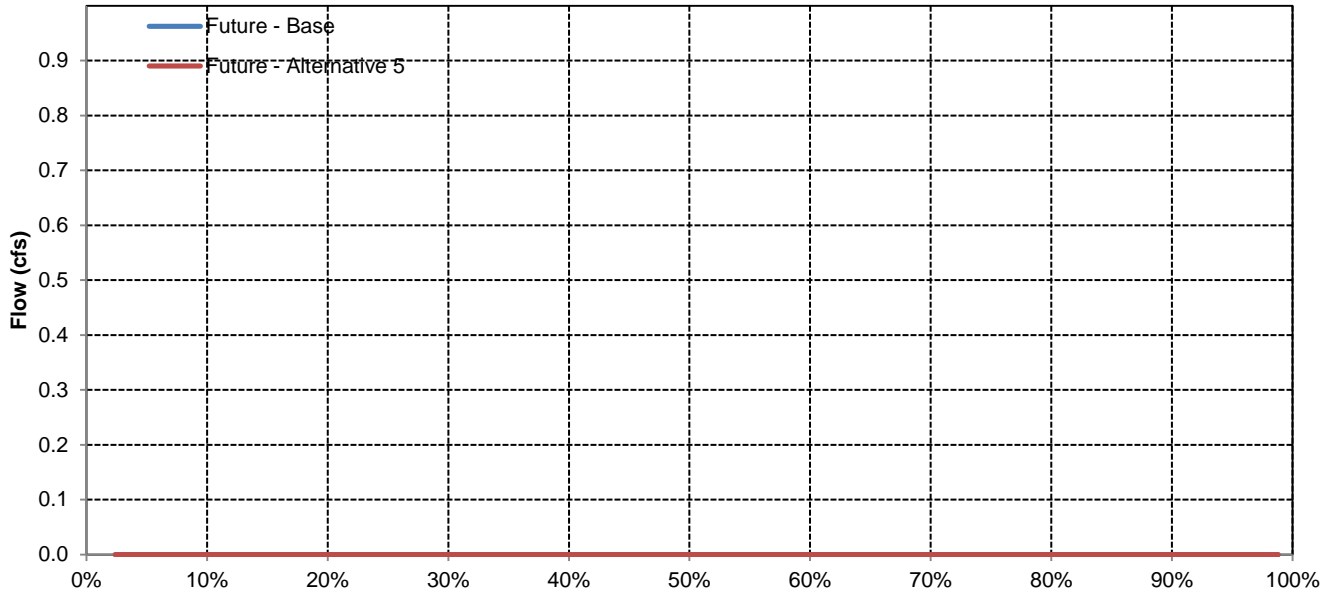


## May

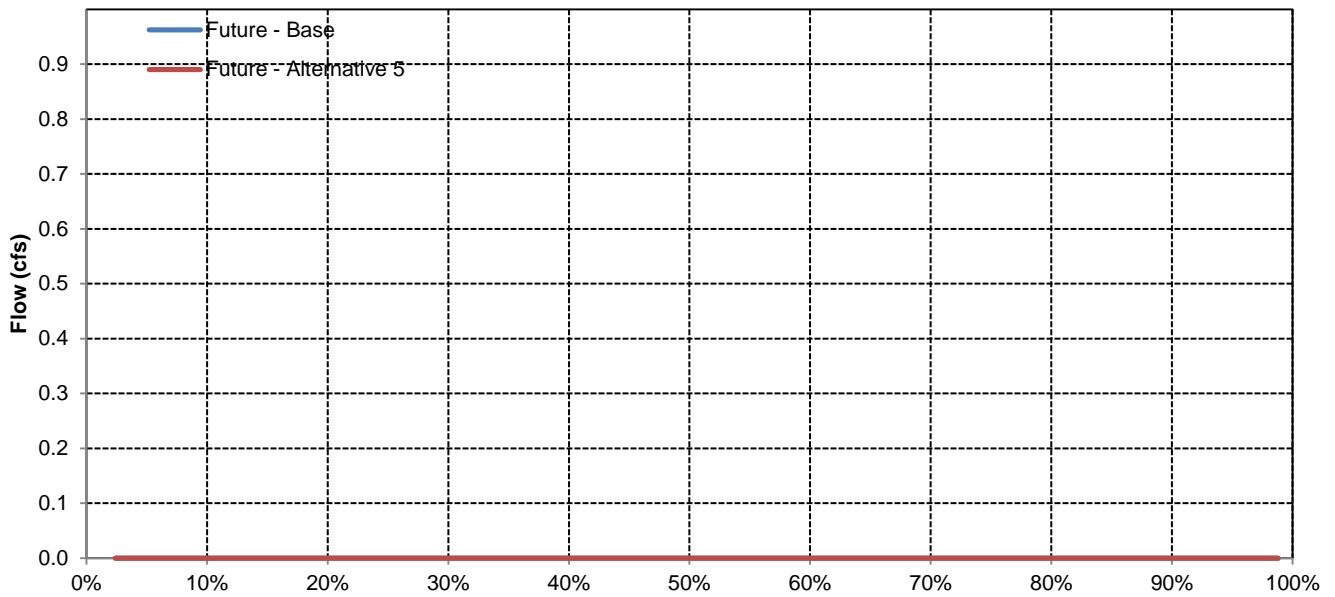


# Fremont Weir Spill to Yolo Bypass

## June

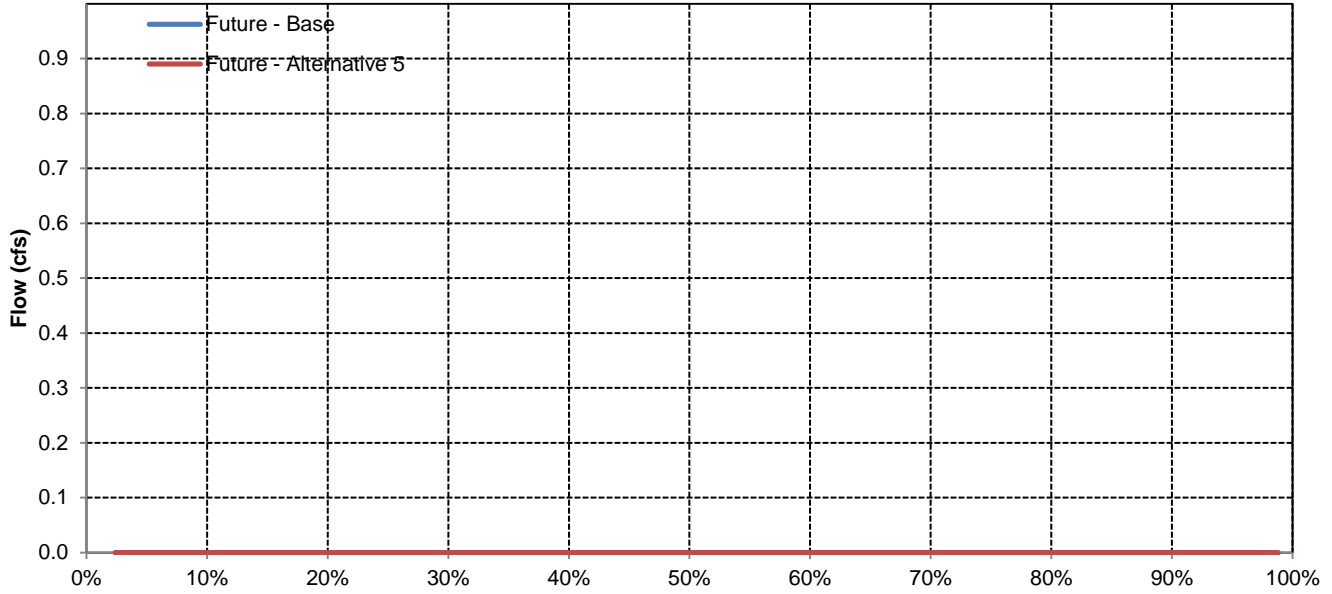


## July

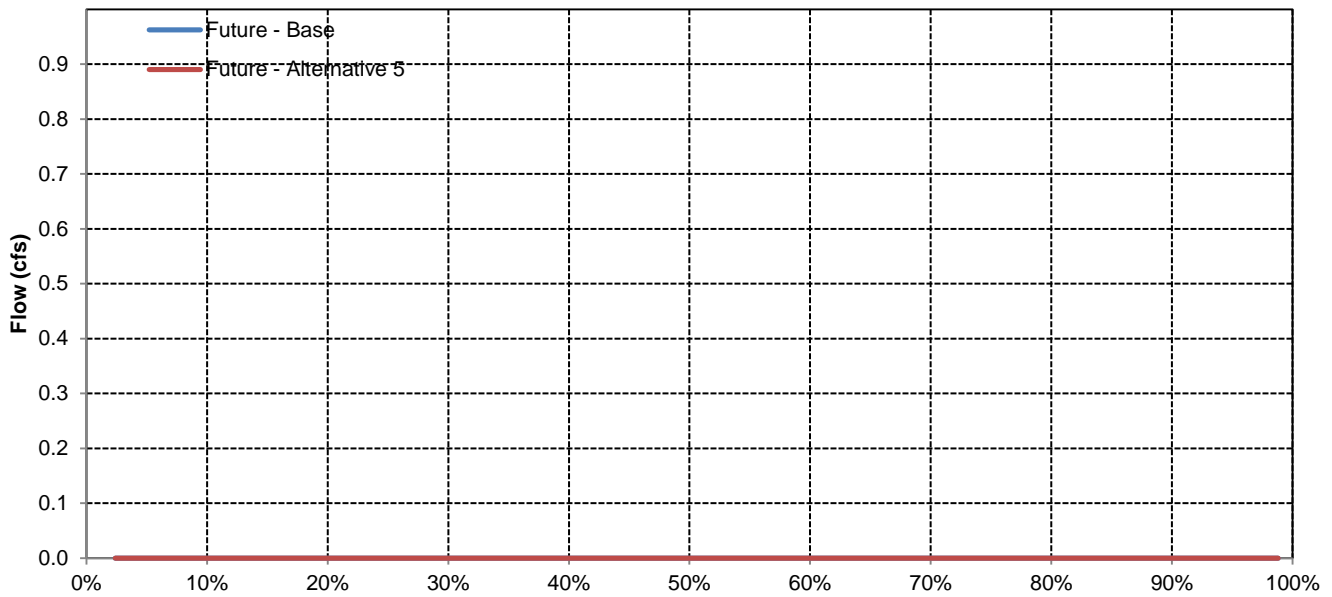


# Fremont Weir Spill to Yolo Bypass

## August



## September



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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	9,206	10,728	19,728	30,030	35,978	31,028	17,571	10,459	13,675	15,358	11,273	13,824	13,150
Future - Alternative 5	9,239	10,621	19,350	29,388	35,312	30,698	17,569	10,449	13,686	15,357	11,280	13,812	13,025
Difference	33	-107	-378	-642	-667	-330	-2	-11	11	-1	7	-11	-125
Percent Difference	0%	-1%	-2%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	10,316	14,168	33,582	49,490	54,700	46,345	27,848	12,029	14,178	18,965	12,787	23,425	19,081
Future - Alternative 5	10,324	13,902	32,791	48,621	53,954	46,045	27,848	12,025	14,178	18,959	12,761	23,409	18,900
Difference	8	-265	-791	-869	-747	-300	0	-4	0	-6	-26	-16	-181
Percent Difference	0%	-2%	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Above Normal</b>													
Future - Base	10,180	10,600	18,133	38,066	50,270	39,380	16,639	11,646	16,362	17,891	12,383	16,466	15,480
Future - Alternative 5	10,368	10,520	17,681	37,085	49,533	38,882	16,642	11,646	16,366	17,885	12,379	16,466	15,327
Difference	188	-80	-452	-981	-737	-498	2	0	4	-6	-4	1	-153
Percent Difference	2%	-1%	-2%	-3%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%
<b>Below Normal</b>													
Future - Base	9,254	9,797	13,924	23,209	25,545	24,426	14,615	10,760	14,962	15,443	10,464	8,153	10,869
Future - Alternative 5	9,281	9,775	13,714	22,414	24,743	23,985	14,615	10,700	15,073	15,437	10,549	8,151	10,744
Difference	28	-22	-210	-795	-803	-441	0	-60	111	-6	85	-2	-126
Percent Difference	0%	0%	-2%	-3%	-3%	-2%	0%	-1%	1%	0%	1%	0%	-1%
<b>Dry</b>													
Future - Base	8,186	9,309	12,579	14,935	22,880	21,608	11,530	9,425	13,173	12,523	10,169	7,654	9,257
Future - Alternative 5	8,185	9,277	12,470	14,614	22,212	21,255	11,522	9,425	13,216	12,503	10,160	7,632	9,169
Difference	-1	-33	-109	-320	-668	-354	-8	0	43	-20	-9	-22	-89
Percent Difference	0%	0%	-1%	-2%	-3%	-2%	0%	0%	0%	0%	0%	0%	-1%
<b>Critical</b>													
Future - Base	7,552	6,764	9,375	13,050	15,447	13,038	9,429	7,372	9,565	9,855	9,692	7,025	7,121
Future - Alternative 5	7,564	6,760	9,333	12,841	15,169	12,955	9,427	7,370	9,446	9,907	9,724	7,021	7,083
Difference	12	-4	-42	-209	-278	-83	-1	-2	-119	52	31	-4	-38
Percent Difference	0%	0%	0%	-2%	-2%	-1%	0%	0%	-1%	1%	0%	0%	-1%

Sacramento River below Fremont Weir

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,897	16,169	45,741	61,582	63,120	58,501	40,381	14,264	19,317	20,306	15,937	23,746
20%	10,789	13,042	30,986	52,000	59,936	50,976	24,134	12,203	18,036	19,458	13,060	23,231
30%	9,787	11,409	19,616	42,207	50,229	42,750	16,494	11,100	17,030	17,789	11,135	21,443
40%	9,396	10,373	16,258	31,518	42,508	33,844	14,502	10,319	14,771	17,206	10,721	14,835
50%	9,004	9,580	14,683	22,826	32,845	25,125	12,720	9,227	12,760	16,197	10,366	9,351
60%	8,421	8,564	12,034	17,536	23,964	20,148	10,605	8,847	11,697	14,641	10,117	8,213
70%	7,953	7,746	10,580	14,086	19,326	17,034	9,863	8,329	10,907	12,994	9,872	7,627
80%	6,644	6,697	8,469	11,527	15,457	13,796	9,349	7,855	9,488	11,435	9,571	7,237
90%	6,027	5,916	7,135	10,183	12,838	10,799	8,626	7,207	8,168	9,224	9,229	6,510
<b>Long Term</b>												
Full Simulation Period	9,206	10,728	19,728	30,030	35,978	31,028	17,571	10,459	13,675	15,358	11,273	13,824
<b>Water Year Types</b>												
Wet	10,316	14,168	33,582	49,490	54,700	46,345	27,848	12,029	14,178	18,965	12,787	23,425
Above Normal	10,180	10,600	18,133	38,066	50,270	39,380	16,639	11,646	16,362	17,891	12,383	16,466
Below Normal	9,254	9,797	13,924	23,209	25,545	24,426	14,615	10,760	14,962	15,443	10,464	8,153
Dry	8,186	9,309	12,579	14,935	22,880	21,608	11,530	9,425	13,173	12,523	10,169	7,654
Critical	7,552	6,764	9,375	13,050	15,447	13,038	9,429	7,372	9,565	9,855	9,692	7,025

Future - Alternative 5

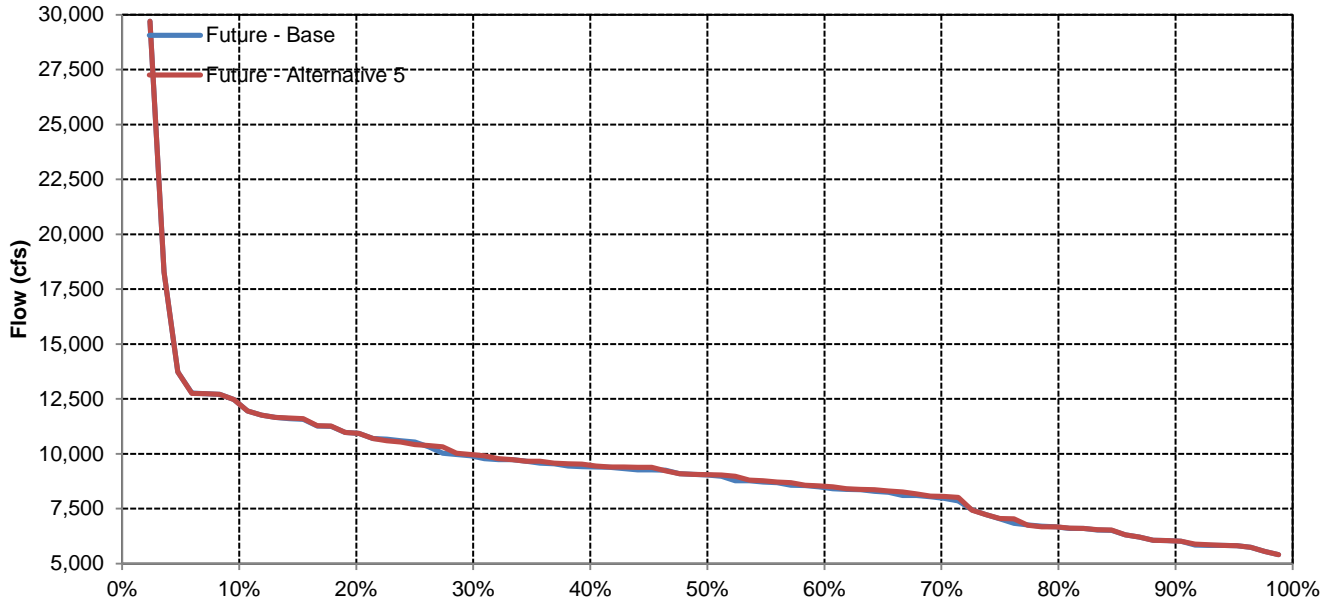
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,897	15,931	44,359	61,430	63,132	58,501	40,381	14,264	19,318	20,306	16,331	23,749
20%	10,789	12,990	29,741	50,629	59,693	50,906	24,151	12,203	18,232	19,460	13,063	23,235
30%	9,909	11,384	19,180	40,529	48,478	41,845	16,489	10,978	17,029	17,861	11,153	21,444
40%	9,435	10,368	16,038	29,622	41,372	32,381	14,501	10,320	15,002	17,357	10,721	14,834
50%	9,035	9,575	14,474	21,863	30,882	24,826	12,720	9,213	12,755	16,198	10,323	9,340
60%	8,507	8,559	11,991	17,047	23,003	19,922	10,605	8,843	11,599	14,737	10,131	8,131
70%	8,049	7,741	10,697	14,045	18,922	16,829	9,863	8,328	10,907	12,996	9,873	7,627
80%	6,651	6,675	8,389	11,518	15,333	13,727	9,359	7,855	9,488	11,435	9,571	7,239
90%	6,028	5,913	7,133	10,170	12,821	10,795	8,626	7,207	8,168	9,226	9,229	6,508
<b>Long Term</b>												
Full Simulation Period	9,239	10,621	19,350	29,388	35,312	30,698	17,569	10,449	13,686	15,357	11,280	13,812
<b>Water Year Types</b>												
Wet	10,324	13,902	32,791	48,621	53,954	46,045	27,848	12,025	14,178	18,959	12,761	23,409
Above Normal	10,368	10,520	17,681	37,085	49,533	38,882	16,642	11,646	16,366	17,885	12,379	16,466
Below Normal	9,281	9,775	13,714	22,414	24,743	23,985	14,615	10,700	15,073	15,437	10,549	8,151
Dry	8,185	9,277	12,470	14,614	22,212	21,255	11,522	9,425	13,216	12,503	10,160	7,632
Critical	7,564	6,760	9,333	12,841	15,169	12,955	9,427	7,370	9,446	9,907	9,724	7,021

Future - Alternative 5 Minus Future - Base

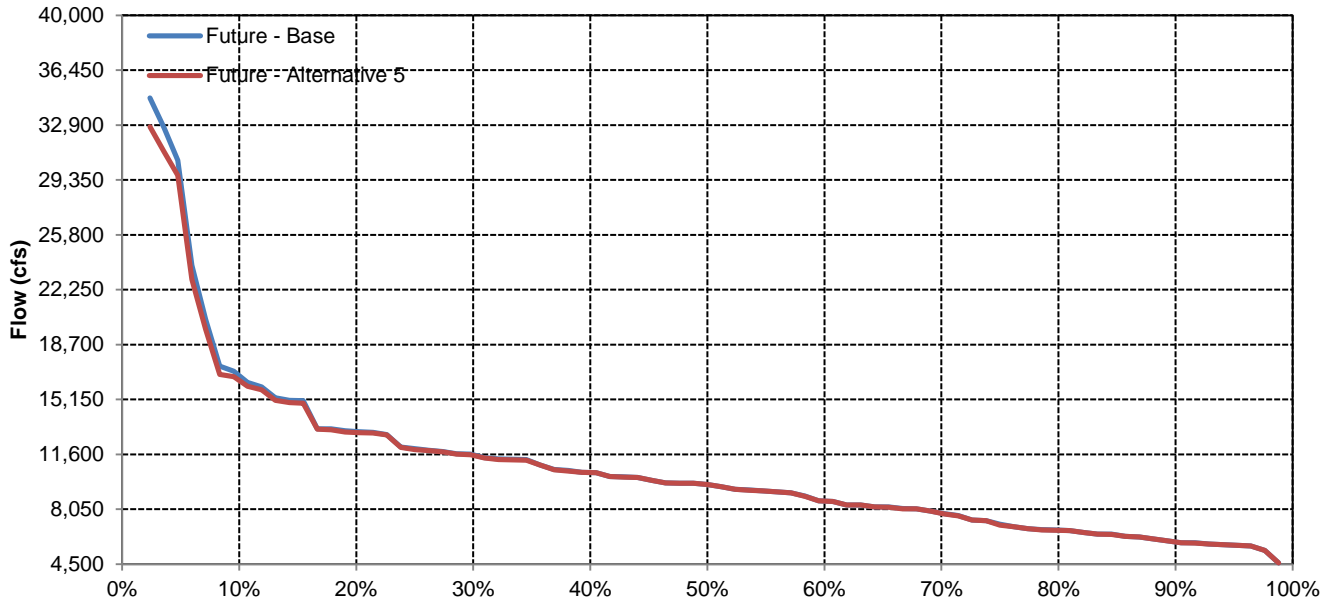
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	-239	-1,382	-152	12	0	0	0	1	0	394	4
20%	0	-52	-1,245	-1,371	-242	-69	17	0	196	2	3	4
30%	122	-25	-436	-1,678	-1,751	-905	-6	-122	-1	71	18	1
40%	39	-5	-220	-1,897	-1,136	-1,463	-1	1	231	151	0	-1
50%	32	-4	-209	-963	-1,963	-299	0	-14	-5	1	-43	-11
60%	86	-5	-43	-489	-960	-226	0	-4	-98	96	14	-81
70%	96	-5	116	-41	-405	-205	0	0	0	2	1	-1
80%	7	-23	-80	-9	-124	-70	9	0	0	0	0	2
90%	0	-2	-2	-12	-18	-5	0	0	0	1	1	-1
<b>Long Term</b>												
Full Simulation Period	33	-107	-378	-642	-667	-330	-2	-11	11	-1	7	-11
<b>Water Year Types</b>												
Wet	8	-265	-791	-869	-747	-300	0	-4	0	-6	-26	-16
Above Normal	188	-80	-452	-981	-737	-498	2	0	4	-6	-4	1
Below Normal	28	-22	-210	-795	-803	-441	0	-60	111	-6	85	-2
Dry	-1	-33	-109	-320	-668	-354	-8	0	43	-20	-9	-22
Critical	12	-4	-42	-209	-278	-83	-1	-2	-119	52	31	-4

# Sacramento River below Fremont Weir

## October



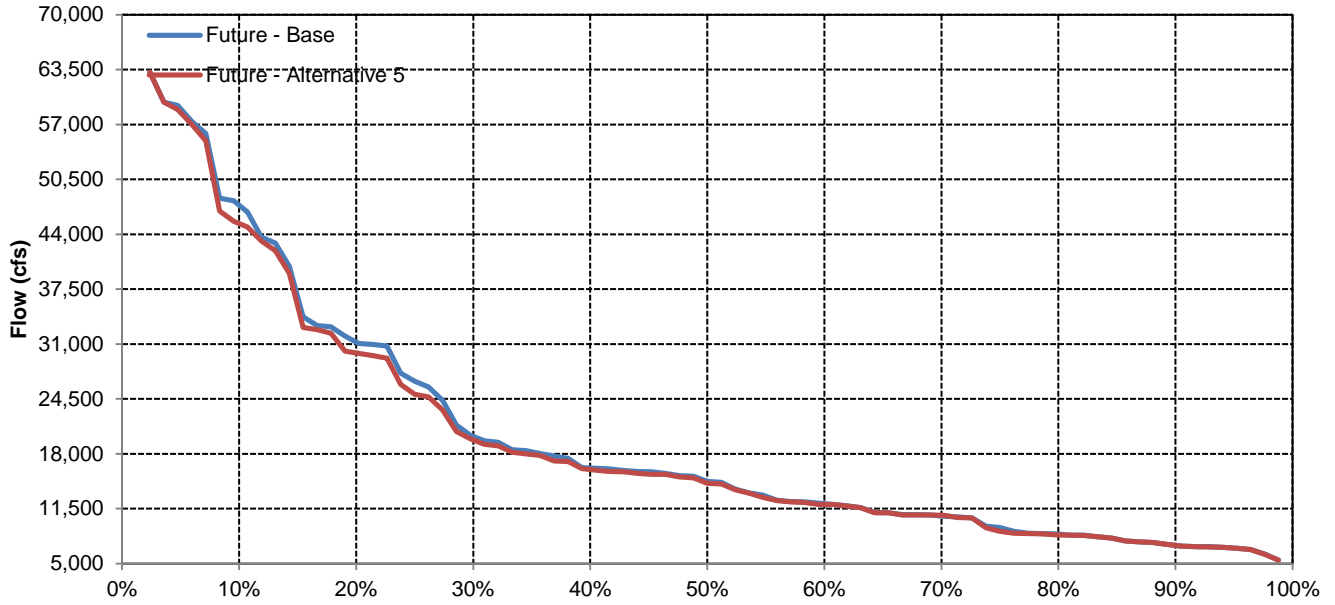
## November



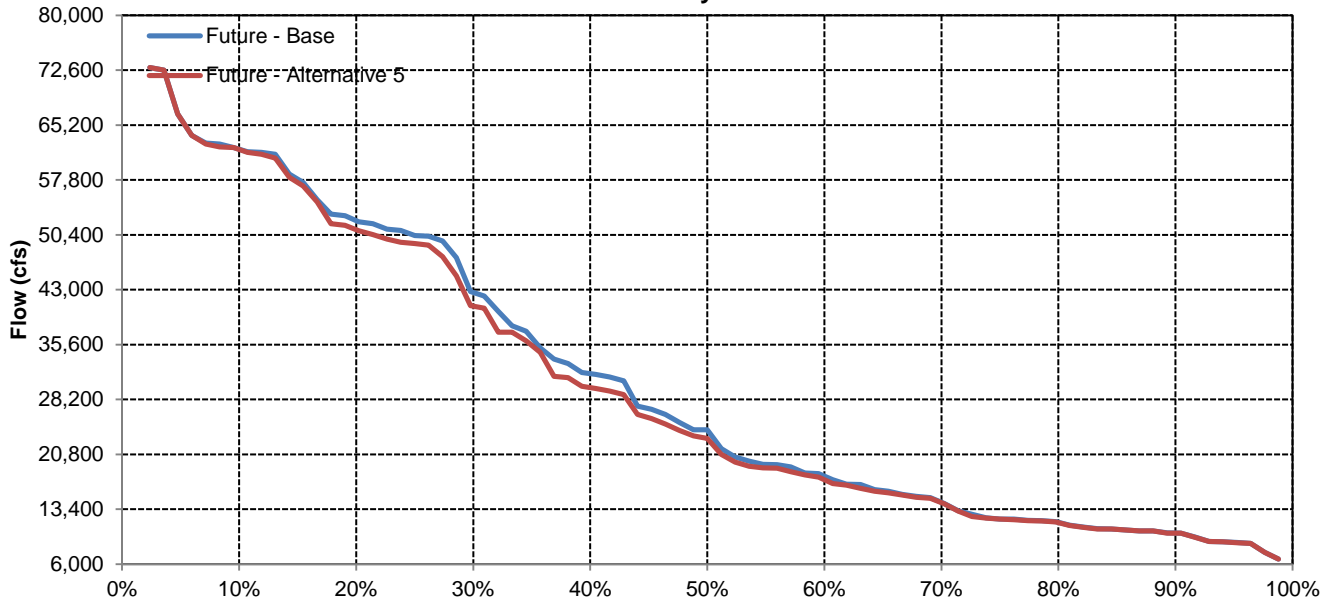


# Sacramento River below Fremont Weir

## December

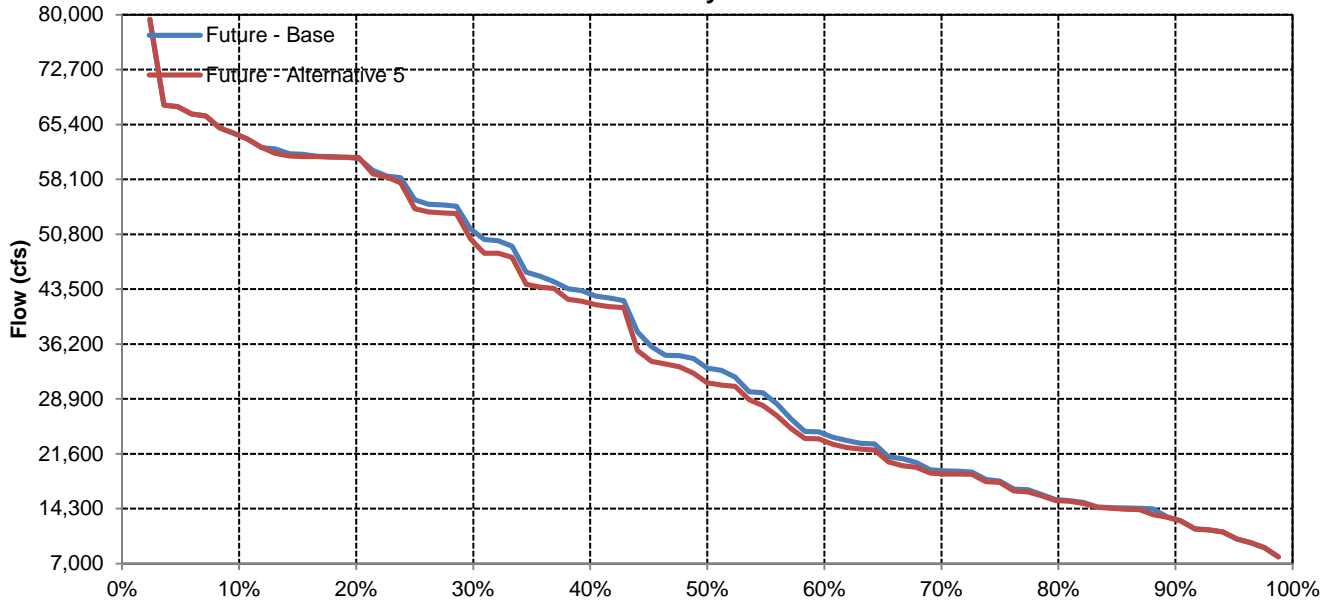


## January

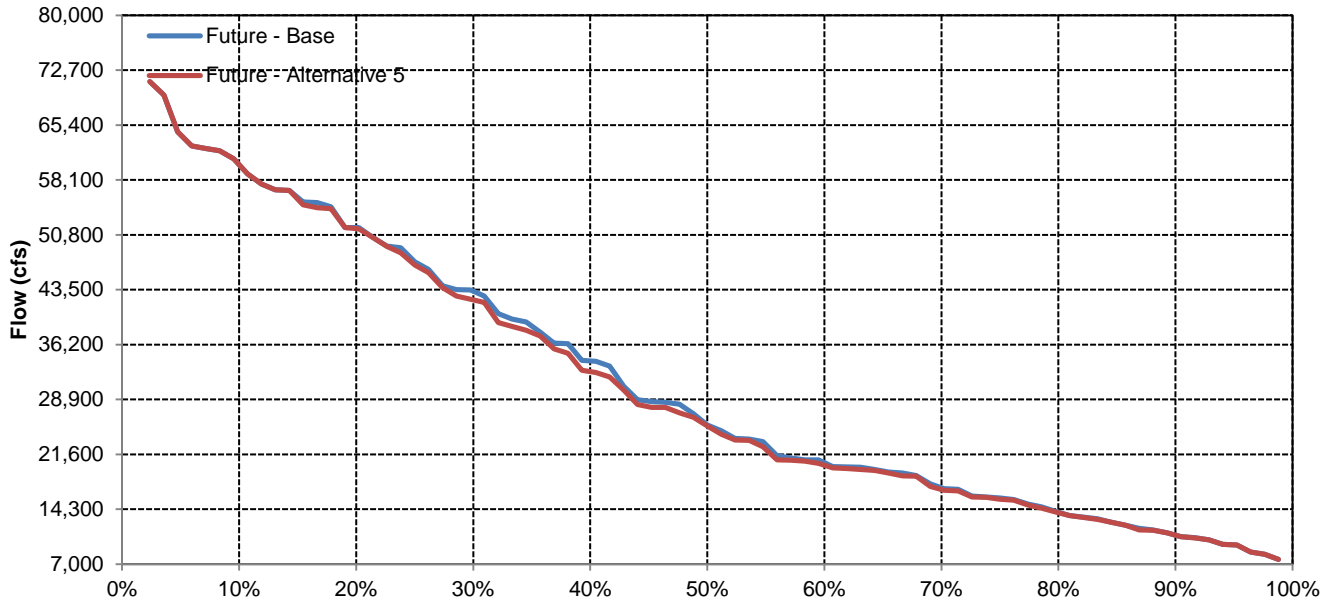


# Sacramento River below Fremont Weir

## February

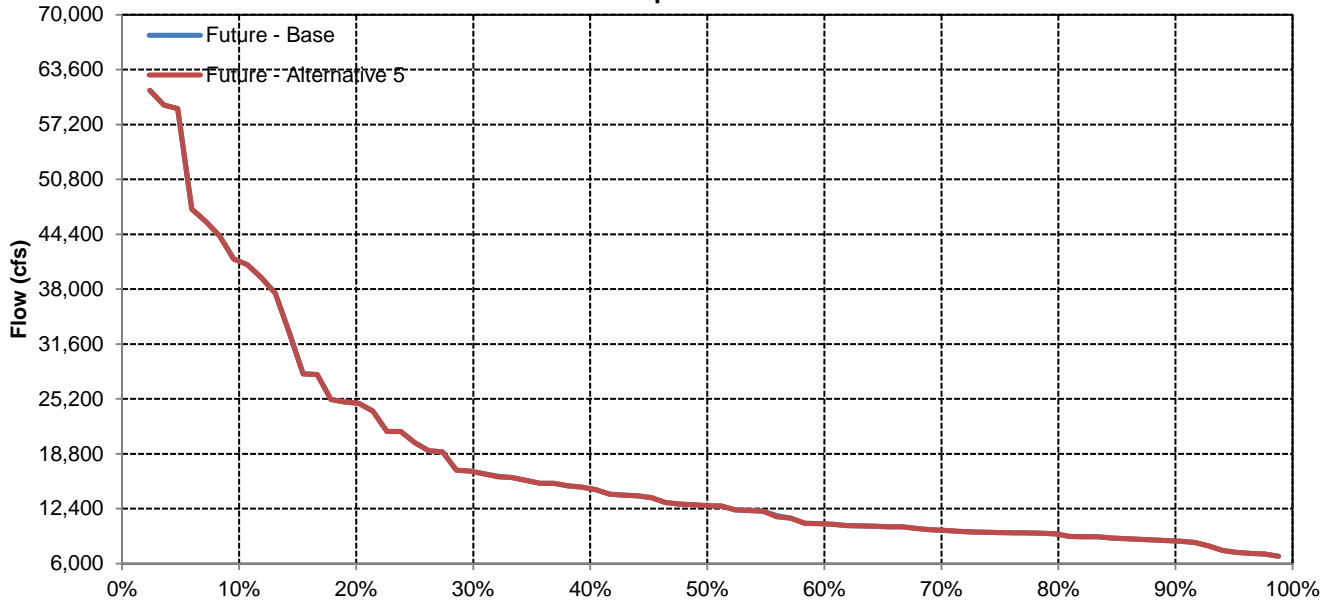


## March

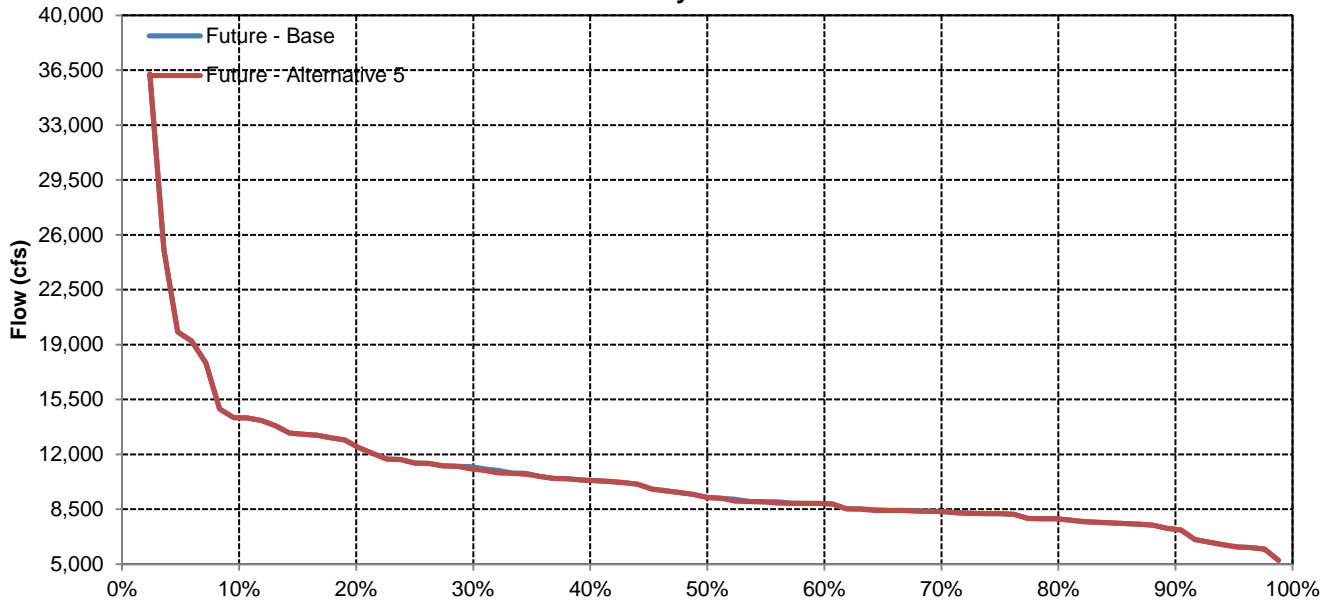


# Sacramento River below Fremont Weir

## April

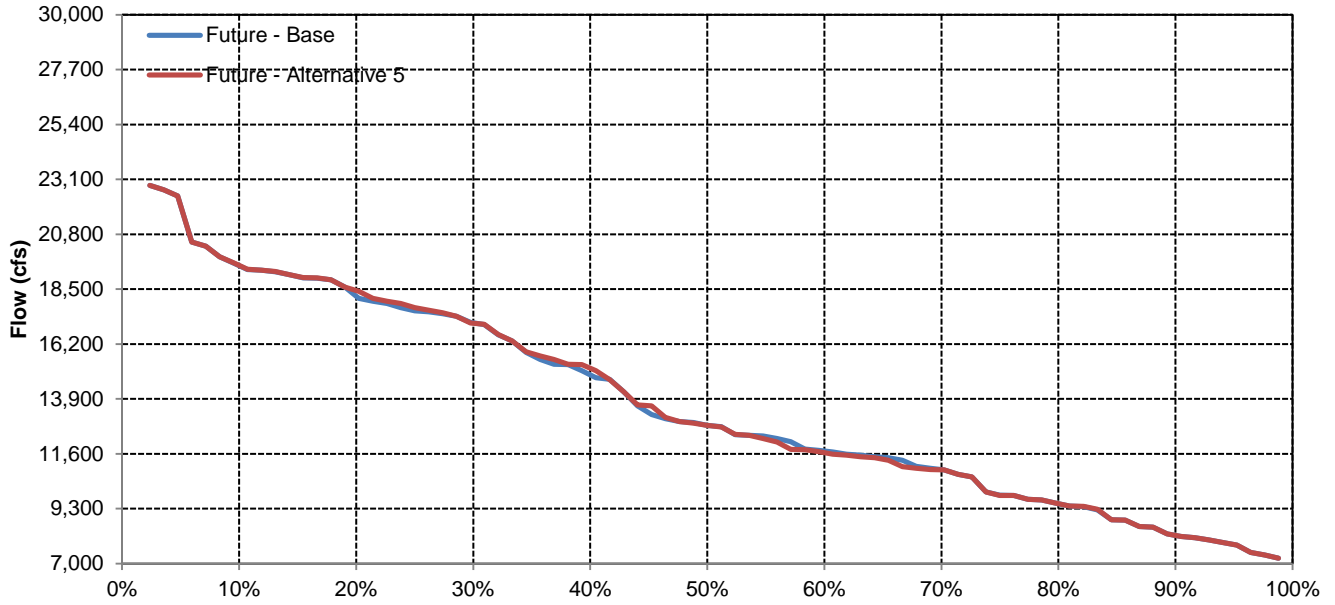


## May

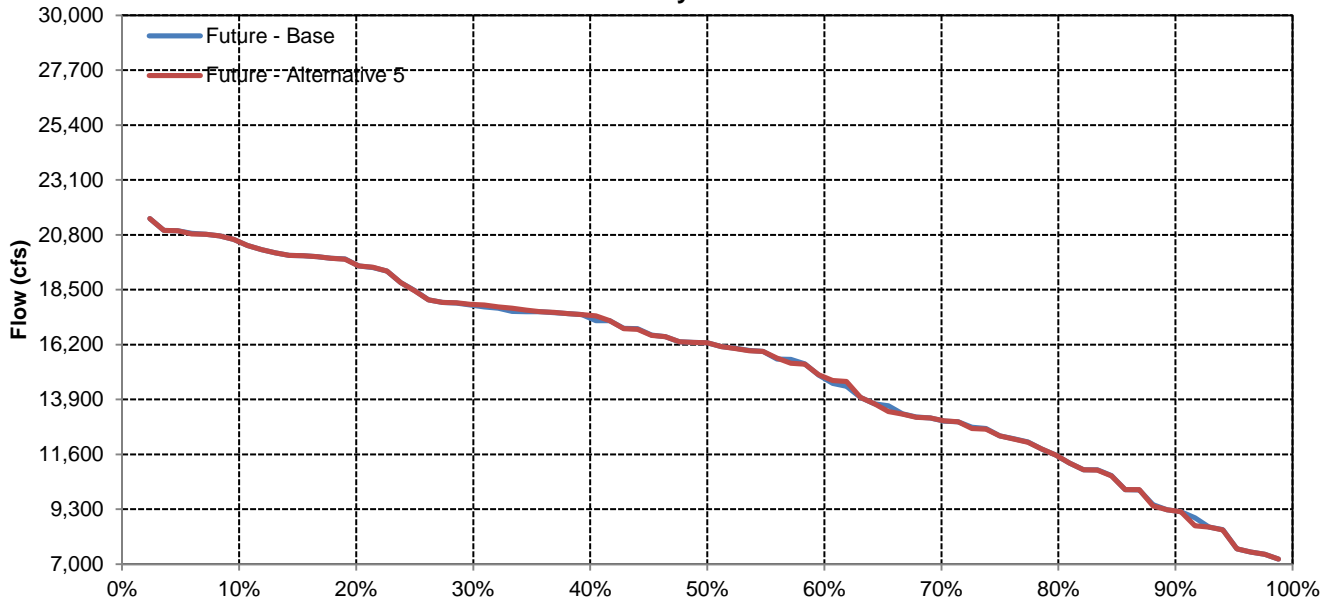


### Sacramento River below Fremont Weir

June

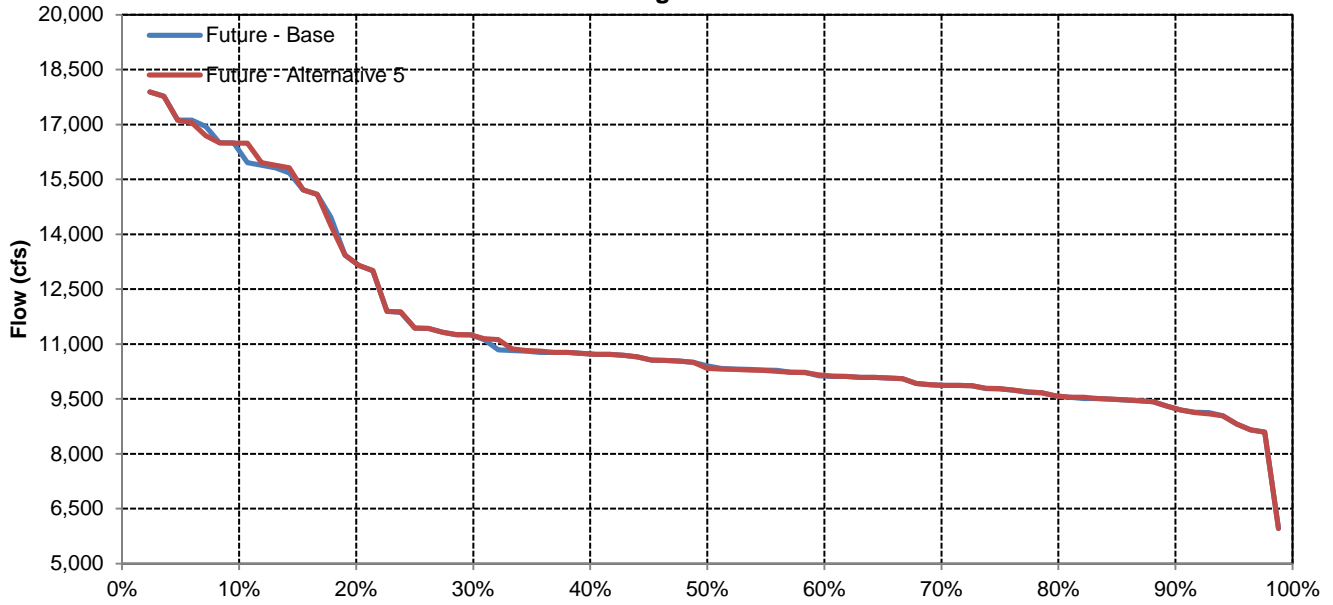


July

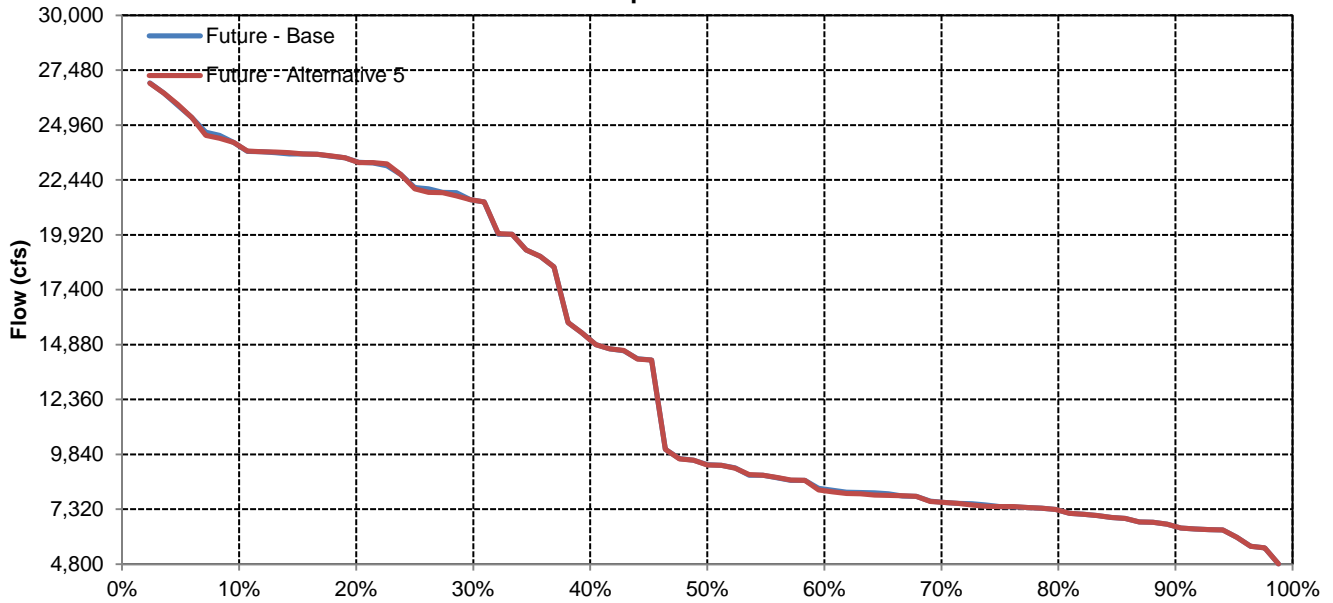


# Sacramento River below Fremont Weir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	1,111	1,121	1,232	1,403	1,575	1,712	1,826	1,701	1,582	1,421	1,271	1,160
Future - Alternative 5	1,111	1,120	1,232	1,403	1,575	1,711	1,826	1,701	1,582	1,421	1,271	1,160
Difference	-1	-1	0	0	0	0	0	0	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	1,184	1,226	1,437	1,697	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Future - Alternative 5	1,184	1,225	1,437	1,696	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,454
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%
<b>Above Normal</b>												
Future - Base	1,184	1,161	1,273	1,559	1,813	1,988	2,142	1,982	1,871	1,704	1,558	1,426
Future - Alternative 5	1,184	1,161	1,273	1,559	1,813	1,988	2,141	1,981	1,870	1,703	1,557	1,426
Difference	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	1,148	1,147	1,220	1,391	1,539	1,694	1,829	1,709	1,610	1,441	1,284	1,186
Future - Alternative 5	1,147	1,147	1,220	1,391	1,539	1,695	1,829	1,710	1,611	1,441	1,284	1,186
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%
<b>Dry</b>												
Future - Base	1,094	1,097	1,151	1,222	1,376	1,529	1,615	1,477	1,361	1,178	1,006	915
Future - Alternative 5	1,093	1,096	1,150	1,221	1,375	1,528	1,613	1,475	1,359	1,176	1,005	915
Difference	-1	-2	-1	-1	-1	-2	-2	-2	-2	-2	-1	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	875	866	898	942	1,012	1,077	1,102	1,022	960	834	714	656
Future - Alternative 5	875	865	897	942	1,012	1,078	1,102	1,023	961	835	714	656
Difference	0	0	-1	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Trinity Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,479	1,484	1,672	1,900	2,000	2,100	2,298	2,170	1,995	1,863	1,717	1,564
20%	1,385	1,408	1,506	1,818	2,000	2,100	2,233	2,088	1,943	1,791	1,642	1,492
30%	1,303	1,305	1,445	1,638	1,926	2,068	2,167	2,006	1,865	1,697	1,520	1,382
40%	1,248	1,223	1,368	1,593	1,752	1,981	2,113	1,903	1,752	1,562	1,407	1,270
50%	1,152	1,181	1,273	1,421	1,599	1,771	1,933	1,771	1,616	1,443	1,289	1,178
60%	1,079	1,102	1,198	1,304	1,496	1,662	1,745	1,636	1,564	1,378	1,236	1,106
70%	968	957	1,102	1,205	1,371	1,486	1,591	1,531	1,412	1,229	1,083	1,000
80%	775	791	913	1,023	1,256	1,390	1,496	1,376	1,279	1,090	931	846
90%	627	632	678	825	933	1,013	1,056	1,036	957	837	680	625
<b>Long Term</b>												
Full Simulation Period	1,111	1,121	1,232	1,403	1,575	1,712	1,826	1,701	1,582	1,421	1,271	1,160
<b>Water Year Types</b>												
Wet	1,184	1,226	1,437	1,697	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Above Normal	1,184	1,161	1,273	1,559	1,813	1,988	2,142	1,982	1,871	1,704	1,558	1,426
Below Normal	1,148	1,147	1,220	1,391	1,539	1,694	1,829	1,709	1,610	1,441	1,284	1,186
Dry	1,094	1,097	1,151	1,222	1,376	1,529	1,615	1,477	1,361	1,178	1,006	915
Critical	875	866	898	942	1,012	1,077	1,102	1,022	960	834	714	656

Future - Alternative 5

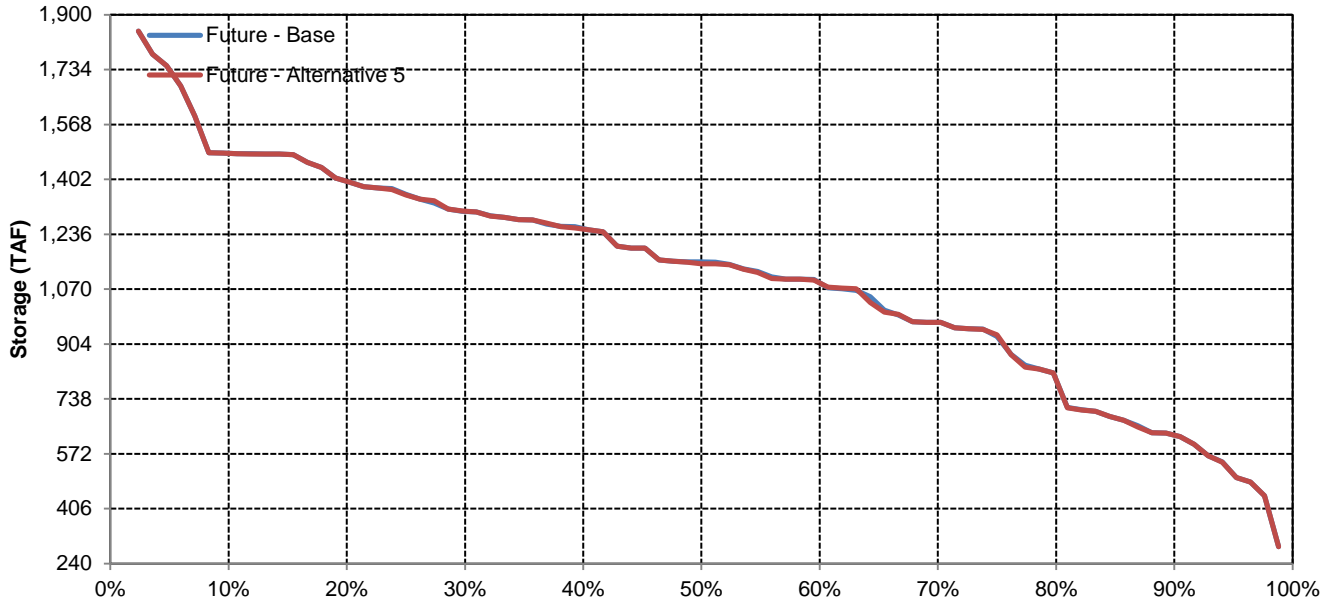
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,479	1,484	1,672	1,900	2,000	2,100	2,298	2,170	1,995	1,863	1,717	1,564
20%	1,385	1,408	1,506	1,817	2,000	2,100	2,233	2,088	1,940	1,791	1,642	1,492
30%	1,303	1,305	1,440	1,637	1,926	2,068	2,167	2,006	1,865	1,697	1,520	1,382
40%	1,248	1,223	1,368	1,592	1,752	1,980	2,113	1,903	1,753	1,562	1,407	1,270
50%	1,147	1,180	1,272	1,421	1,596	1,774	1,936	1,770	1,615	1,443	1,288	1,178
60%	1,080	1,101	1,197	1,304	1,494	1,660	1,746	1,639	1,550	1,375	1,233	1,105
70%	968	957	1,100	1,204	1,374	1,491	1,590	1,531	1,412	1,230	1,083	1,000
80%	774	790	910	1,021	1,252	1,390	1,498	1,375	1,278	1,090	929	846
90%	627	632	679	825	933	1,013	1,056	1,036	957	837	680	625
<b>Long Term</b>												
Full Simulation Period	1,111	1,120	1,232	1,403	1,575	1,711	1,826	1,701	1,582	1,421	1,271	1,160
<b>Water Year Types</b>												
Wet	1,184	1,225	1,437	1,696	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,454
Above Normal	1,184	1,161	1,273	1,559	1,813	1,988	2,141	1,981	1,870	1,703	1,557	1,426
Below Normal	1,147	1,147	1,220	1,391	1,539	1,695	1,829	1,710	1,611	1,441	1,284	1,186
Dry	1,093	1,096	1,150	1,221	1,375	1,528	1,613	1,475	1,359	1,176	1,005	915
Critical	875	865	897	942	1,012	1,078	1,102	1,023	961	835	714	656

Future - Alternative 5 Minus Future - Base

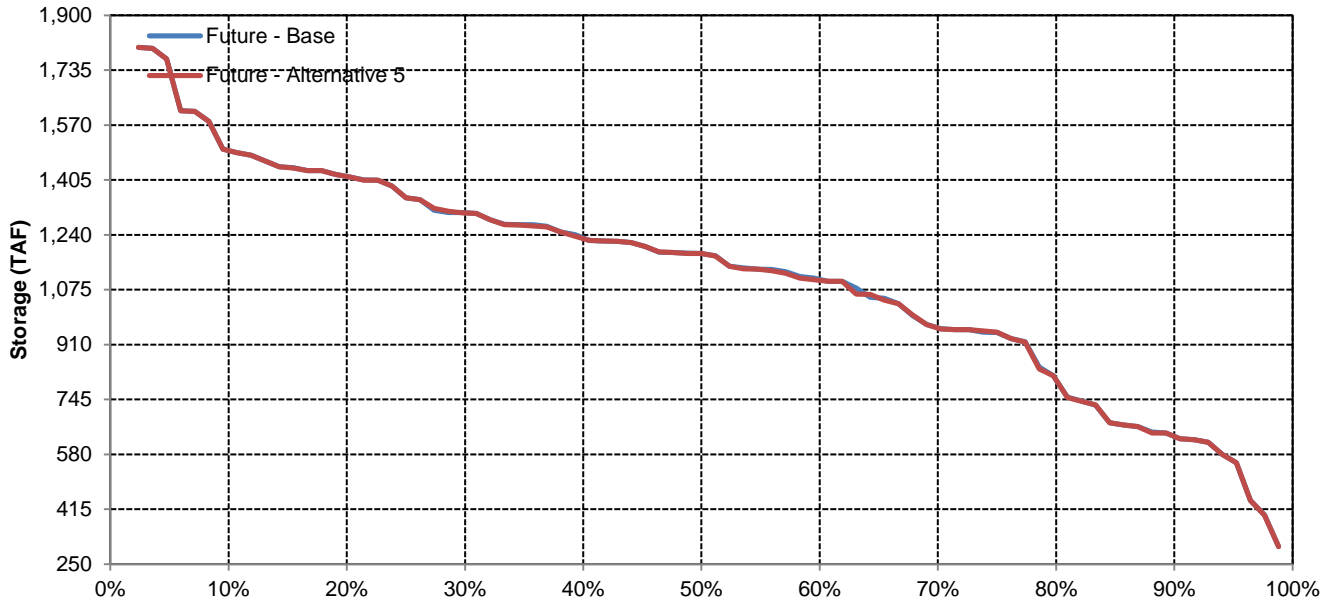
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	-1	0	0	0	0	0	0	-3	0	0	0
30%	0	0	-5	-1	0	0	0	0	-1	0	0	0
40%	0	0	0	-1	0	0	-1	0	1	0	0	0
50%	-5	0	-1	0	-3	3	3	-1	0	0	-1	-1
60%	1	-1	-1	0	-2	-1	1	3	-14	-3	-3	-2
70%	0	0	-2	-1	3	5	-1	0	0	1	0	0
80%	0	0	-2	-2	-3	0	2	0	-1	0	-2	1
90%	0	0	0	0	0	0	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	-1	-1	0	0	0	0	0	0	-1	-1	0	0
<b>Water Year Types</b>												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	-1	-2	-1	-1	-1	-2	-2	-2	-2	-2	-1	-1
Critical	0	0	-1	0	0	0	0	0	0	0	0	0

# Trinity Reservoir

## October



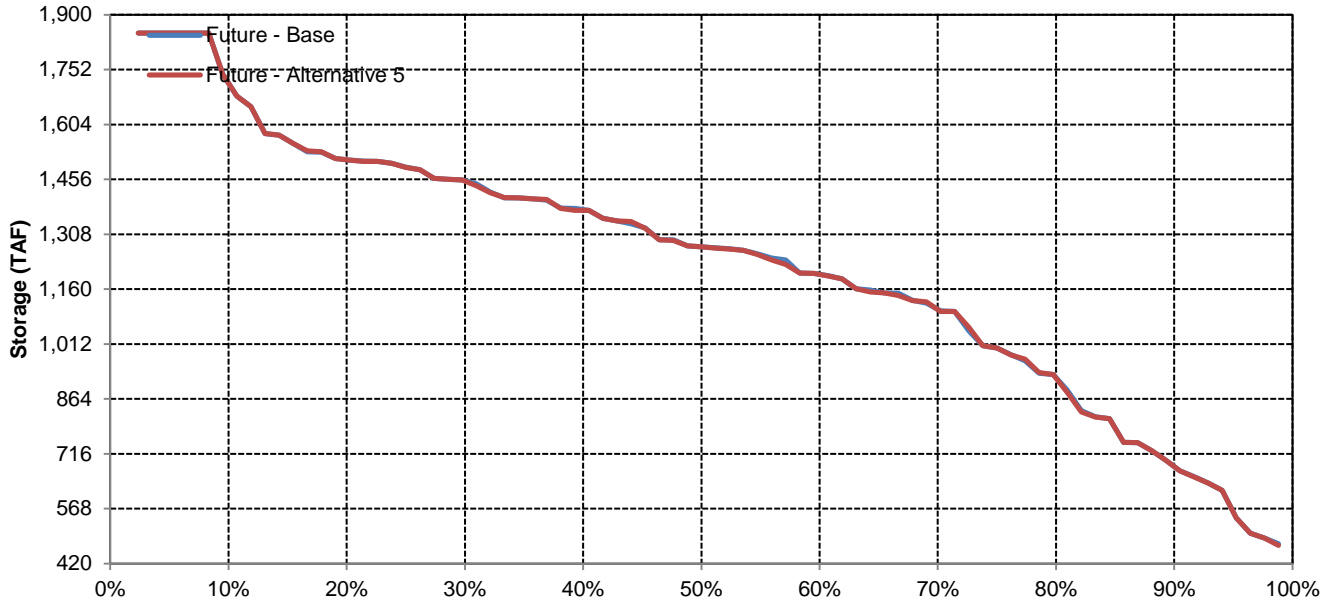
## November



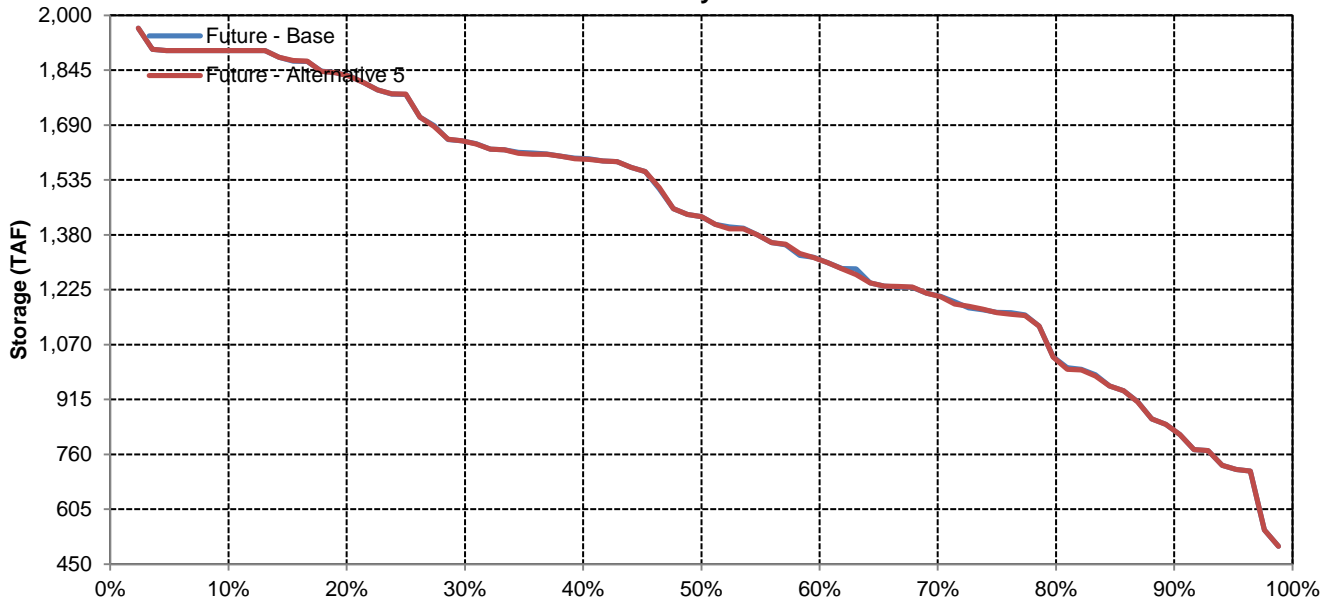


# Trinity Reservoir

## December

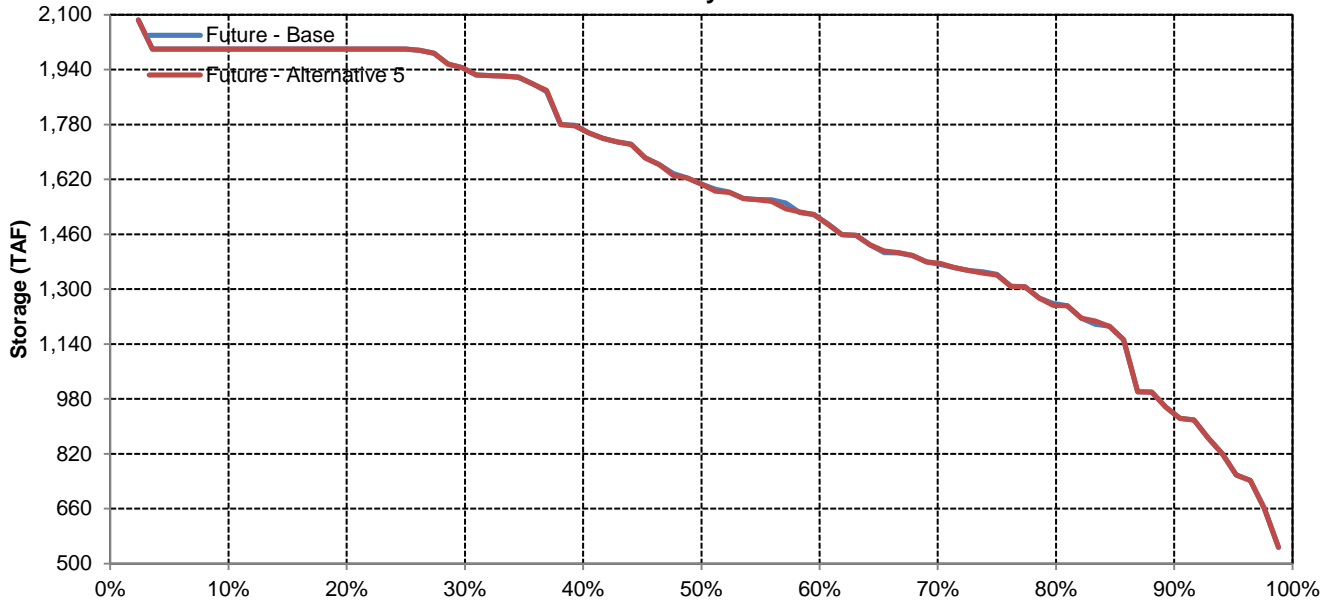


## January

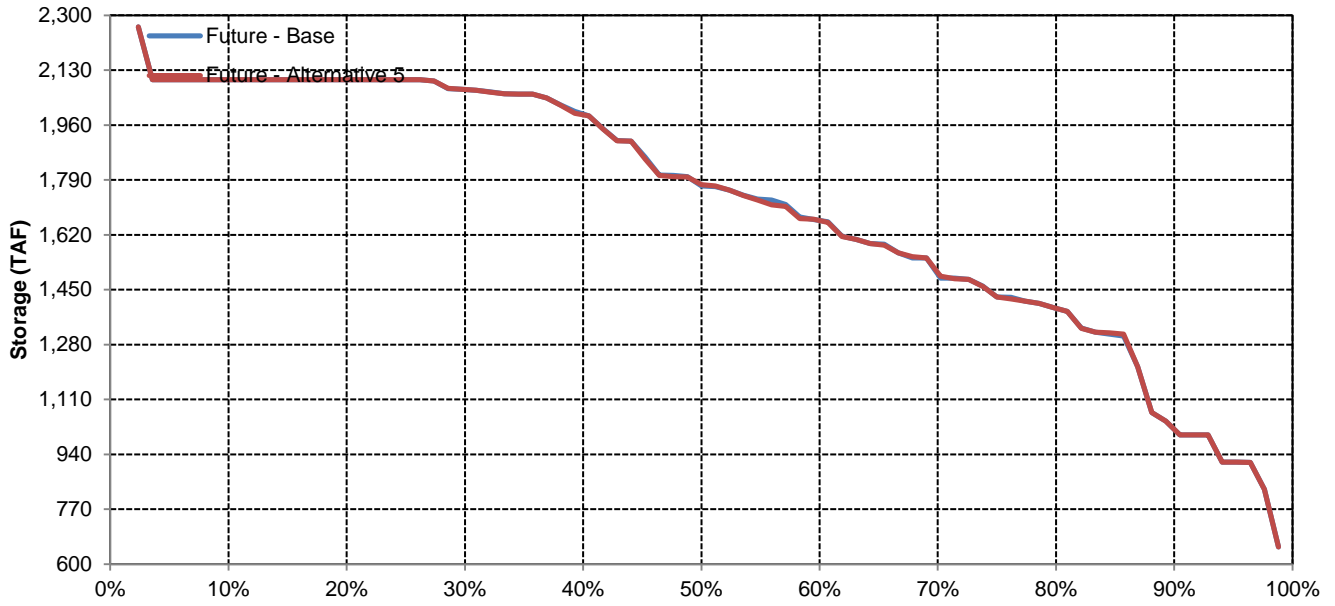


# Trinity Reservoir

## February

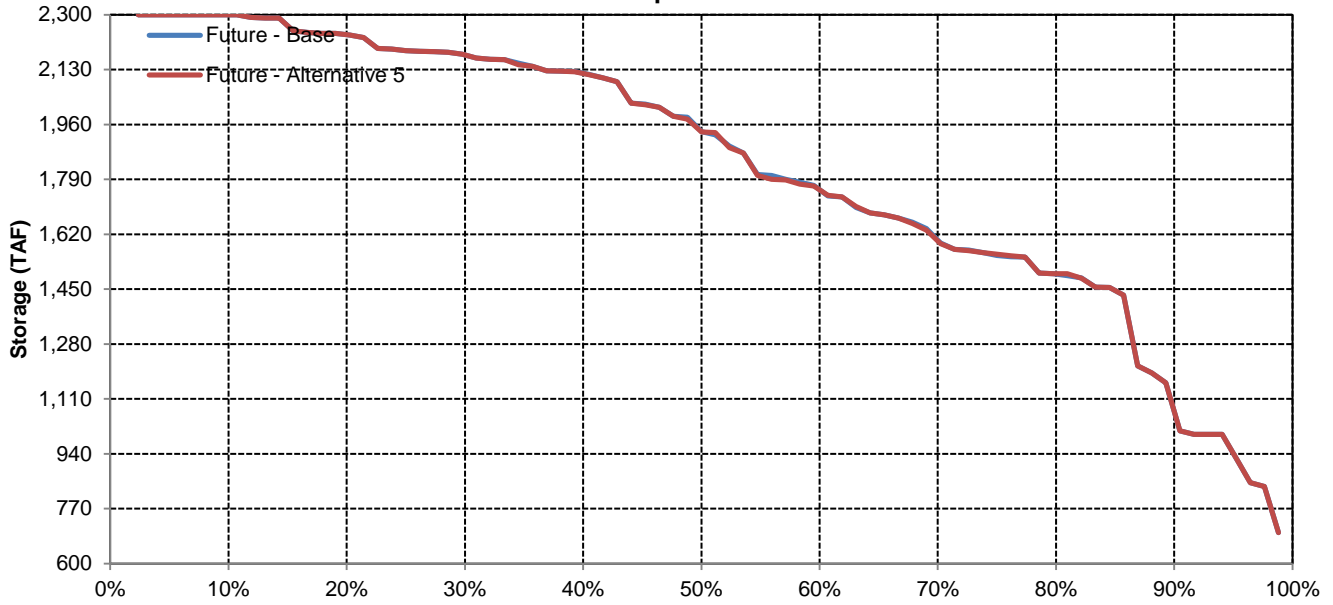


## March

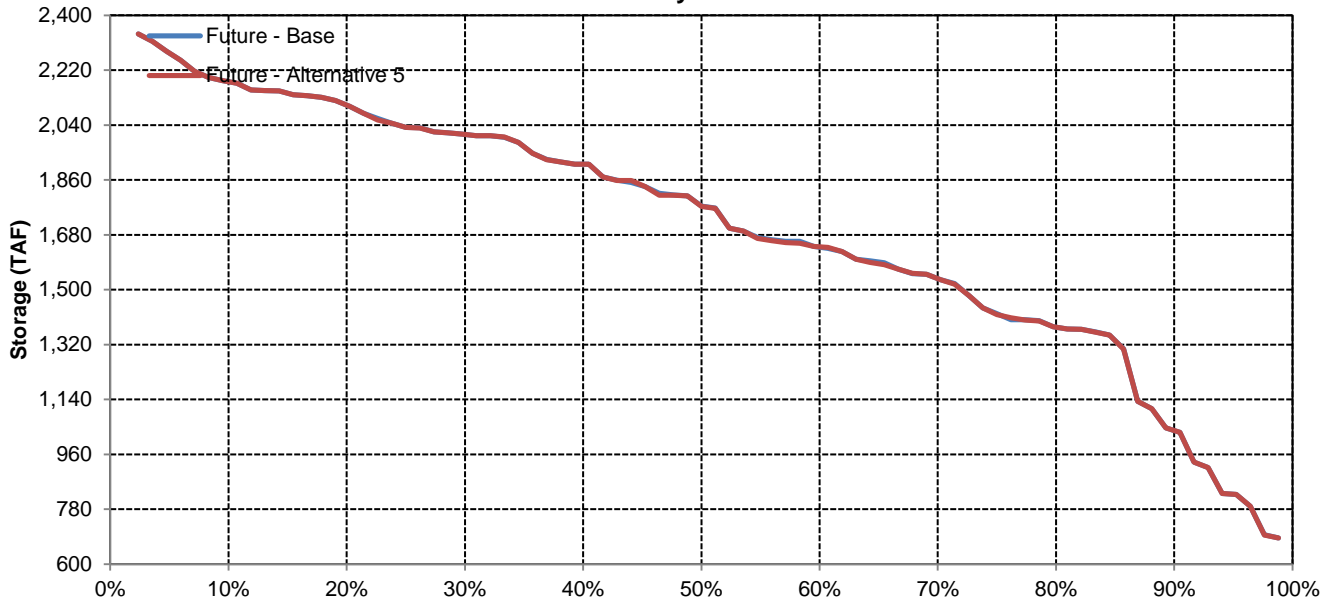


# Trinity Reservoir

## April

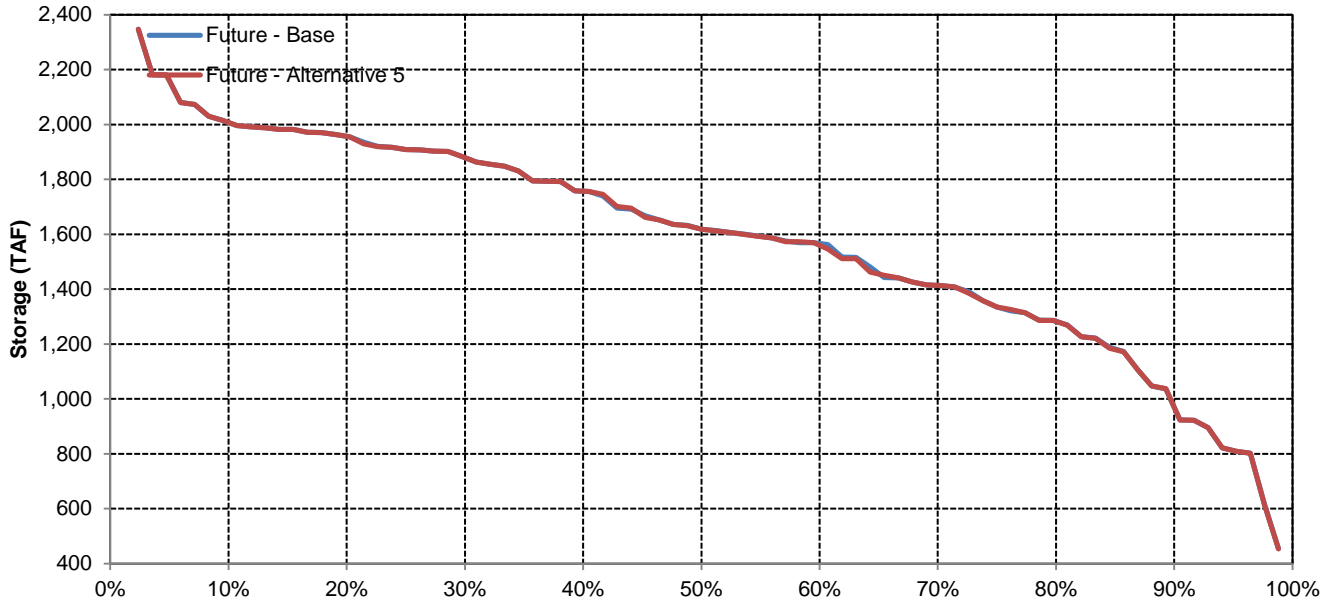


## May

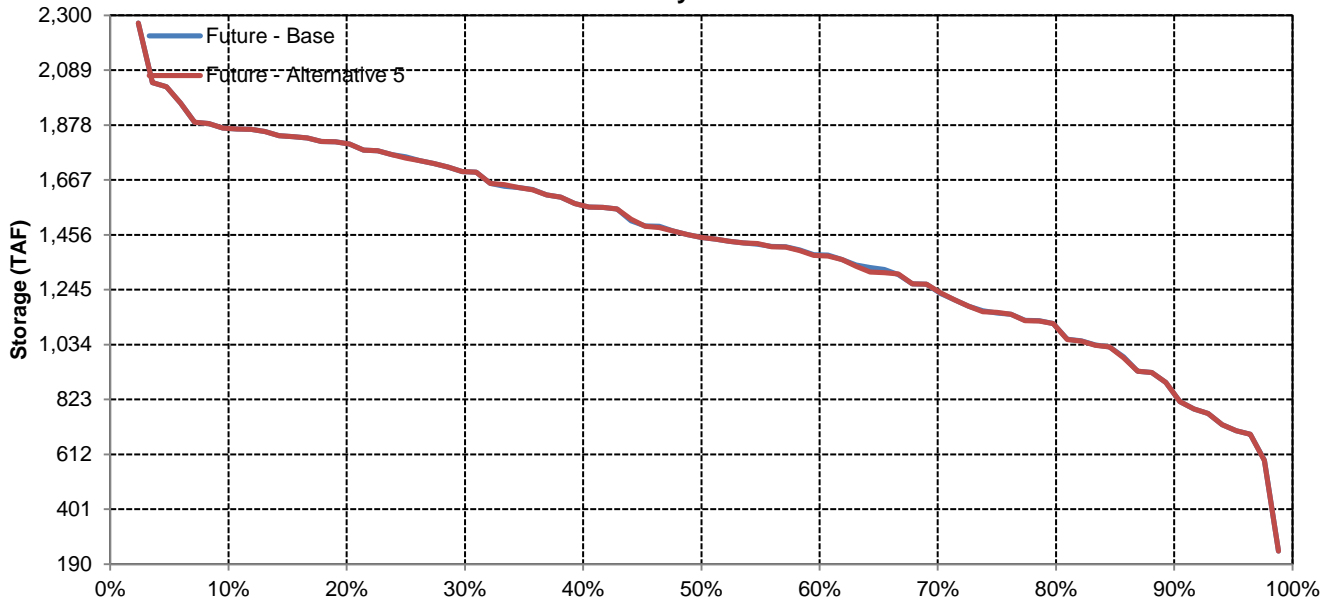


# Trinity Reservoir

## June

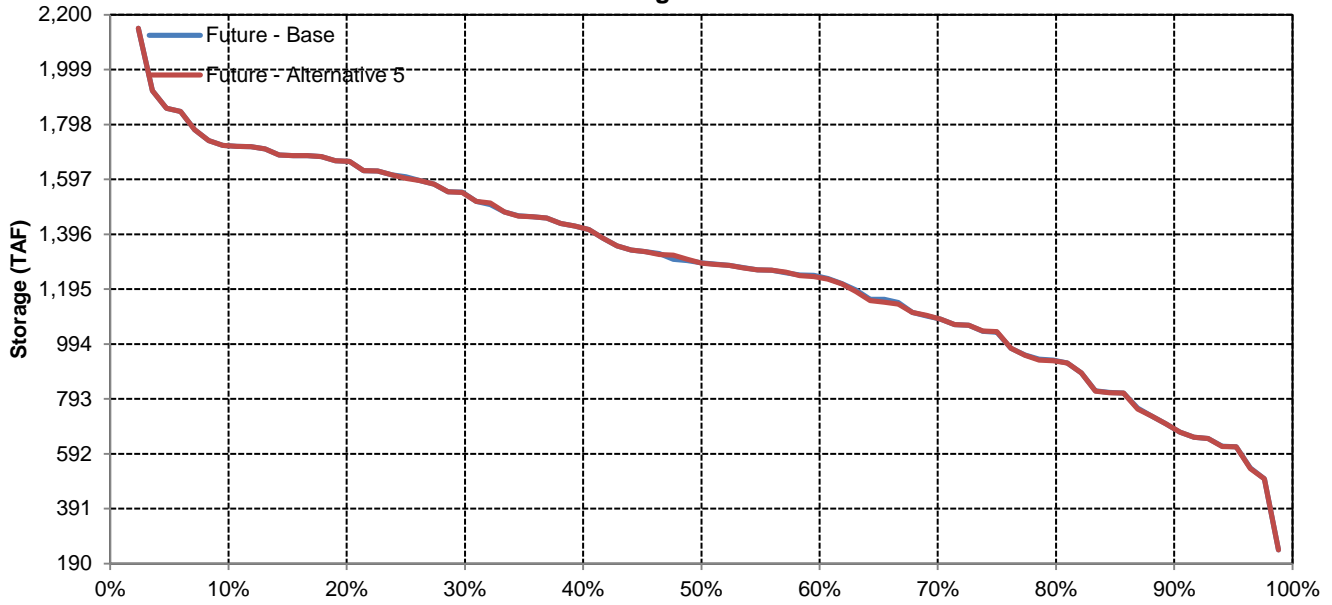


## July

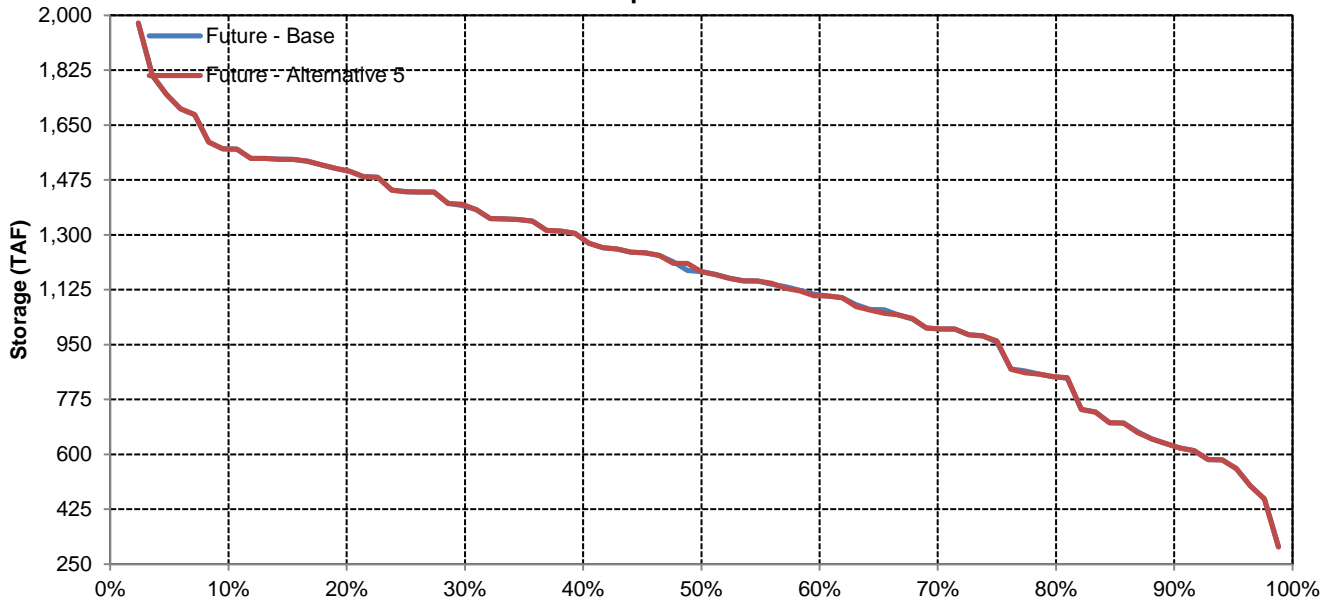


# Trinity Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	2,225	2,278	2,586	2,961	3,277	3,633	3,825	3,712	3,230	2,717	2,459	2,291
Future - Alternative 5	2,224	2,277	2,586	2,960	3,276	3,633	3,825	3,712	3,229	2,716	2,459	2,291
Difference	-1	-1	0	0	0	0	0	0	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	2,396	2,480	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,242	2,994	2,526
Future - Alternative 5	2,395	2,479	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,241	2,993	2,525
Difference	-1	-1	-1	0	0	0	0	0	0	-1	-1	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	2,332	2,398	2,734	3,276	3,538	4,067	4,380	4,287	3,779	3,188	2,931	2,693
Future - Alternative 5	2,325	2,391	2,734	3,276	3,538	4,067	4,380	4,288	3,780	3,188	2,932	2,693
Difference	-6	-6	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	2,275	2,333	2,490	3,019	3,412	3,836	4,073	3,949	3,396	2,900	2,674	2,743
Future - Alternative 5	2,279	2,338	2,494	3,022	3,416	3,840	4,076	3,952	3,394	2,898	2,674	2,743
Difference	5	4	4	4	4	4	4	4	-2	-2	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>												
Future - Base	2,104	2,169	2,417	2,659	3,189	3,593	3,618	3,403	2,899	2,449	2,182	2,205
Future - Alternative 5	2,101	2,167	2,414	2,657	3,186	3,591	3,616	3,402	2,899	2,449	2,183	2,206
Difference	-3	-2	-3	-3	-2	-2	-2	-1	0	0	0	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	1,906	1,851	1,965	2,171	2,385	2,631	2,519	2,310	1,855	1,394	1,094	1,067
Future - Alternative 5	1,904	1,850	1,963	2,170	2,383	2,629	2,517	2,308	1,853	1,392	1,093	1,066
Difference	-1	-1	-1	-1	-2	-2	-2	-2	-1	-1	-1	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Shasta Reservoir Storage

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,037	3,187	3,321	3,635	3,916	4,241	4,482	4,552	4,171	3,512	3,194	2,972
20%	2,810	2,927	3,266	3,539	3,777	4,102	4,372	4,324	3,882	3,302	3,029	2,858
30%	2,671	2,735	3,191	3,403	3,662	4,022	4,251	4,224	3,719	3,170	2,942	2,679
40%	2,416	2,533	2,985	3,335	3,537	3,963	4,176	4,142	3,568	3,039	2,823	2,536
50%	2,317	2,324	2,754	3,252	3,445	3,839	4,109	3,953	3,350	2,880	2,669	2,439
60%	2,245	2,200	2,545	2,973	3,289	3,597	4,009	3,839	3,203	2,755	2,499	2,338
70%	2,020	2,057	2,269	2,767	3,252	3,417	3,756	3,608	3,154	2,594	2,360	2,110
80%	1,757	1,817	2,045	2,429	2,913	3,266	3,216	2,997	2,618	2,141	1,806	1,824
90%	884	1,011	1,336	1,917	2,378	2,633	2,534	2,407	1,951	1,420	978	956
<b>Long Term</b>												
Full Simulation Period	2,225	2,278	2,586	2,961	3,277	3,633	3,825	3,712	3,230	2,717	2,459	2,291
<b>Water Year Types</b>												
Wet	2,396	2,480	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,242	2,994	2,526
Above Normal	2,332	2,398	2,734	3,276	3,538	4,067	4,380	4,287	3,779	3,188	2,931	2,693
Below Normal	2,275	2,333	2,490	3,019	3,412	3,836	4,073	3,949	3,396	2,900	2,674	2,743
Dry	2,104	2,169	2,417	2,659	3,189	3,593	3,618	3,403	2,899	2,449	2,182	2,205
Critical	1,906	1,851	1,965	2,171	2,385	2,631	2,519	2,310	1,855	1,394	1,094	1,067

Future - Alternative 5

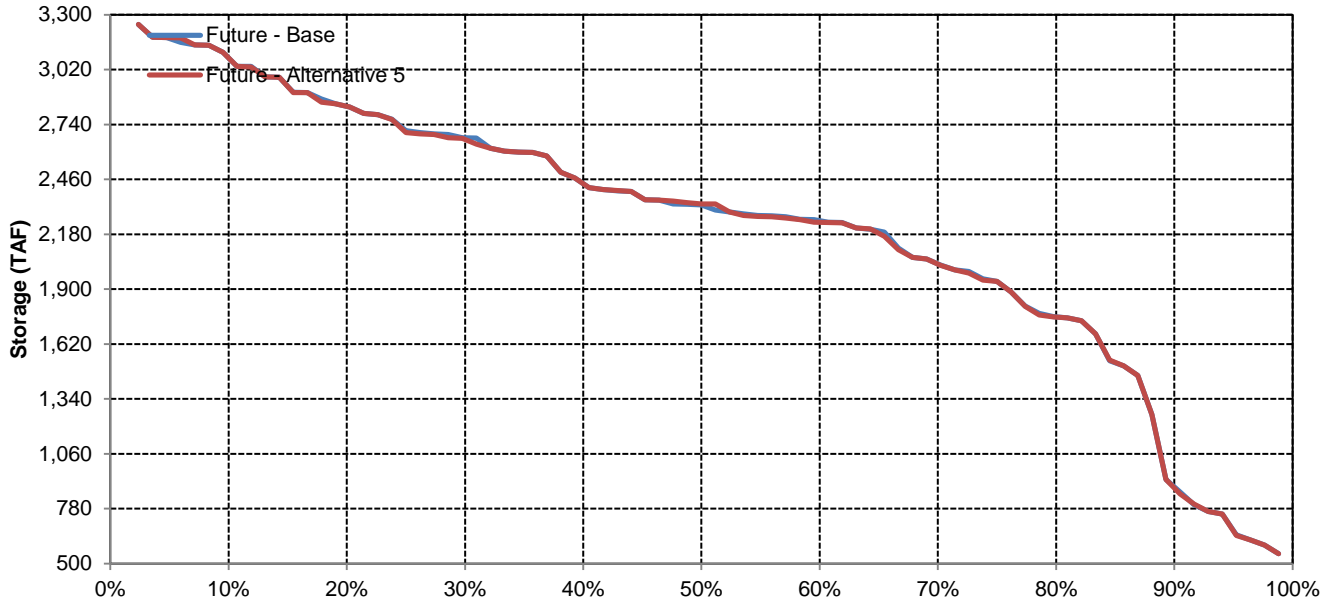
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,036	3,187	3,321	3,635	3,916	4,241	4,487	4,552	4,171	3,506	3,194	2,972
20%	2,810	2,927	3,266	3,539	3,777	4,102	4,372	4,324	3,882	3,302	3,029	2,858
30%	2,642	2,736	3,191	3,403	3,662	4,012	4,251	4,224	3,719	3,170	2,942	2,679
40%	2,416	2,533	2,980	3,335	3,537	3,963	4,176	4,143	3,568	3,026	2,823	2,535
50%	2,335	2,329	2,754	3,252	3,446	3,839	4,109	3,953	3,352	2,880	2,669	2,439
60%	2,241	2,200	2,543	2,973	3,289	3,624	4,009	3,836	3,203	2,769	2,503	2,345
70%	2,019	2,049	2,278	2,765	3,252	3,417	3,757	3,635	3,155	2,594	2,355	2,107
80%	1,757	1,814	2,037	2,428	2,916	3,270	3,215	2,992	2,612	2,141	1,806	1,823
90%	878	1,011	1,338	1,919	2,371	2,627	2,534	2,407	1,951	1,420	975	954
<b>Long Term</b>												
Full Simulation Period	2,224	2,277	2,586	2,960	3,276	3,633	3,825	3,712	3,229	2,716	2,459	2,291
<b>Water Year Types</b>												
Wet	2,395	2,479	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,241	2,993	2,525
Above Normal	2,325	2,391	2,734	3,276	3,538	4,067	4,380	4,288	3,780	3,188	2,932	2,693
Below Normal	2,279	2,338	2,494	3,022	3,416	3,840	4,076	3,952	3,394	2,898	2,674	2,743
Dry	2,101	2,167	2,414	2,657	3,186	3,591	3,616	3,402	2,899	2,449	2,183	2,206
Critical	1,904	1,850	1,963	2,170	2,383	2,629	2,517	2,308	1,853	1,392	1,093	1,066

Future - Alternative 5 Minus Future - Base

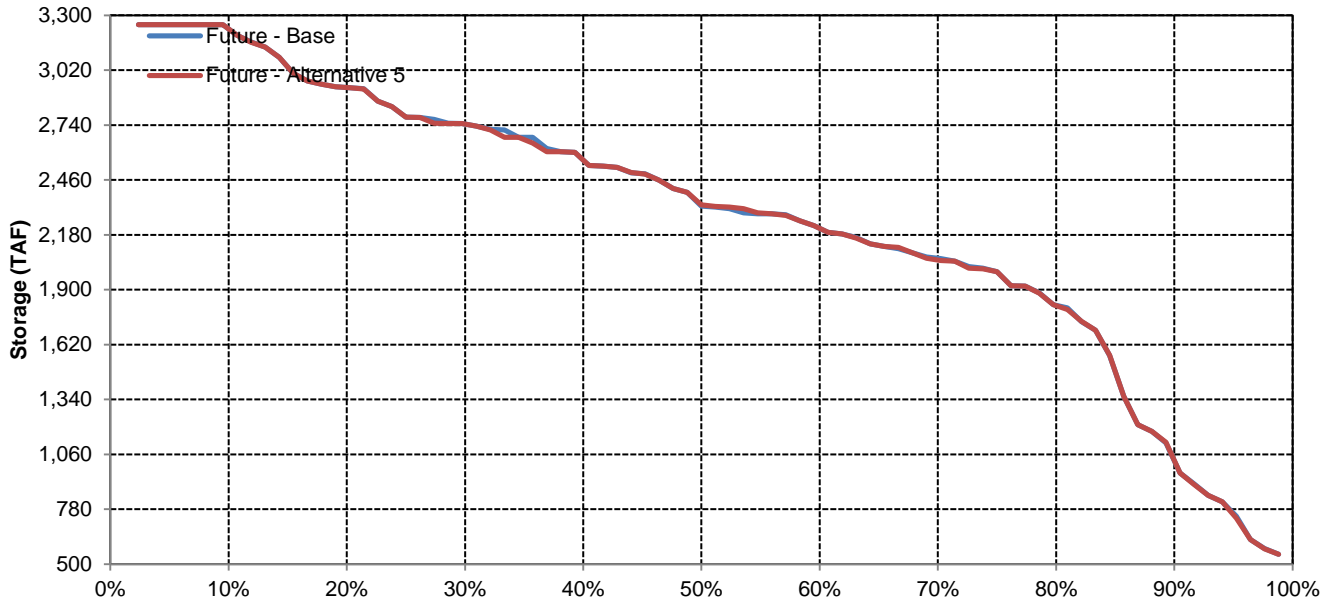
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-1	0	0	0	0	0	5	0	0	-6	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	-29	0	0	0	0	-11	0	0	0	0	0	0
40%	0	0	-6	0	-1	0	0	1	0	-13	0	-1
50%	18	5	0	0	0	0	0	0	2	0	0	0
60%	-4	0	-1	0	0	27	0	-3	0	14	4	7
70%	-2	-8	9	-2	0	0	1	27	1	0	-5	-3
80%	-1	-3	-8	0	3	4	-1	-5	-6	-1	-1	-1
90%	-6	0	2	1	-7	-6	0	0	0	0	-3	-3
<b>Long Term</b>												
Full Simulation Period	-1	-1	0	0	0	0	0	0	-1	-1	0	0
<b>Water Year Types</b>												
Wet	-1	-1	-1	0	0	0	0	0	0	-1	-1	0
Above Normal	-6	-6	0	0	0	0	0	0	0	0	0	0
Below Normal	5	4	4	4	4	4	4	4	-2	-2	0	0
Dry	-3	-2	-3	-3	-2	-2	-2	-1	0	0	0	1
Critical	-1	-1	-1	-1	-2	-2	-2	-2	-1	-1	-1	-1

# Shasta Reservoir Storage

## October



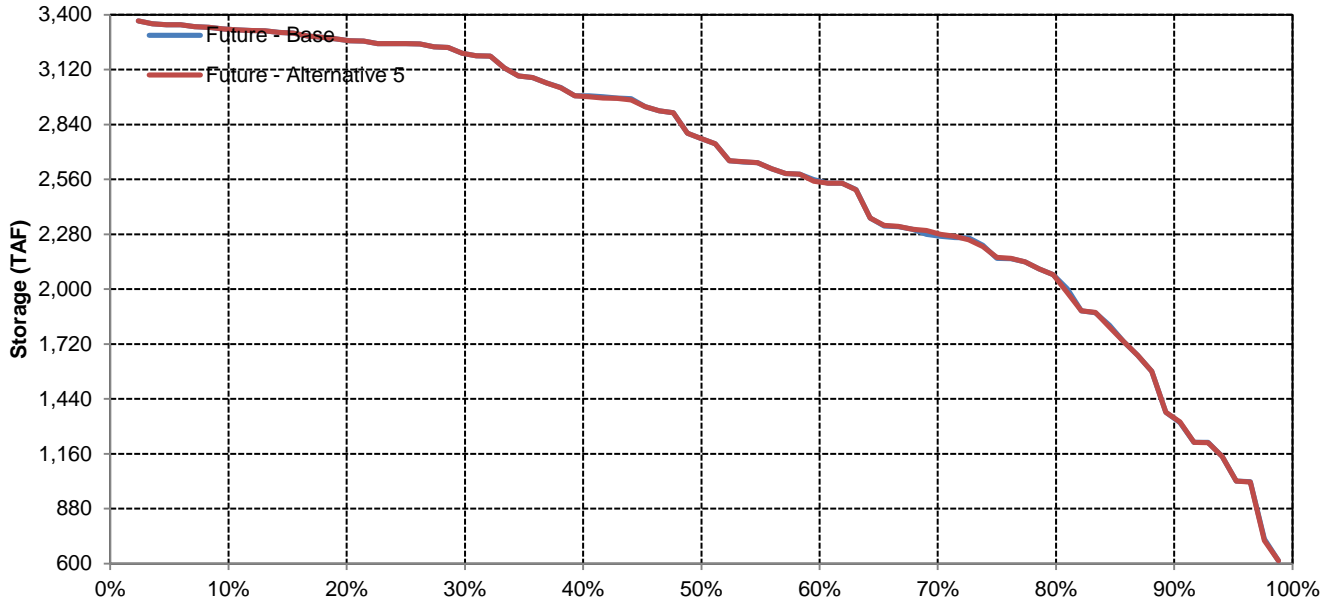
## November



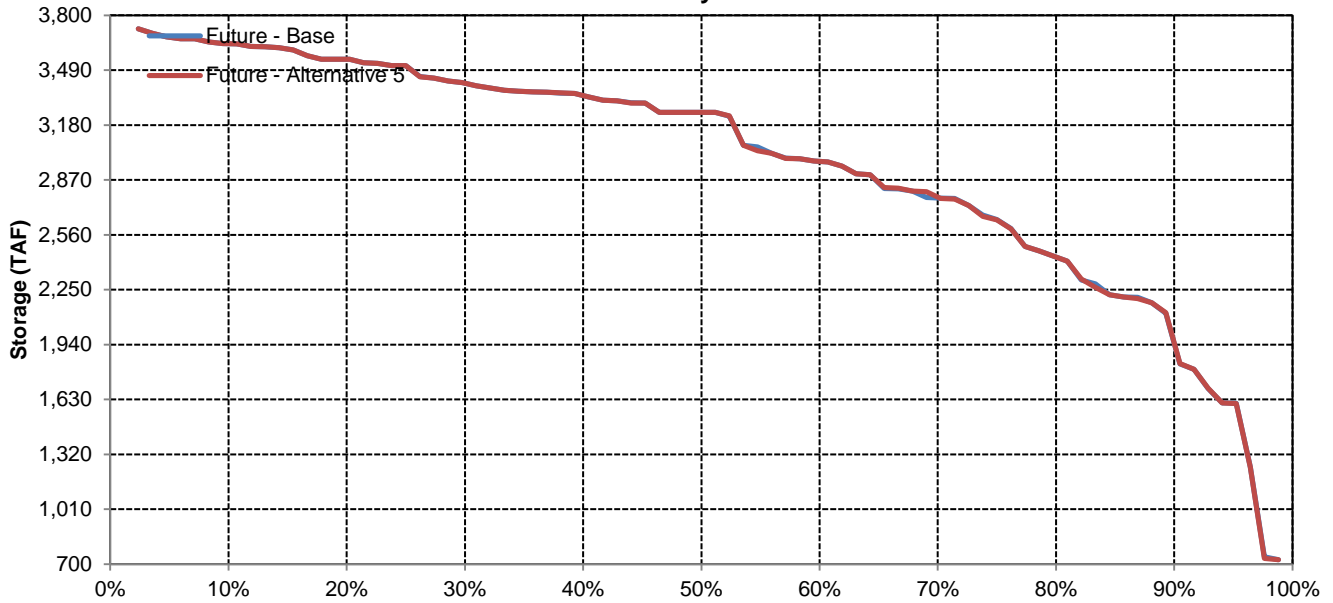


# Shasta Reservoir Storage

## December

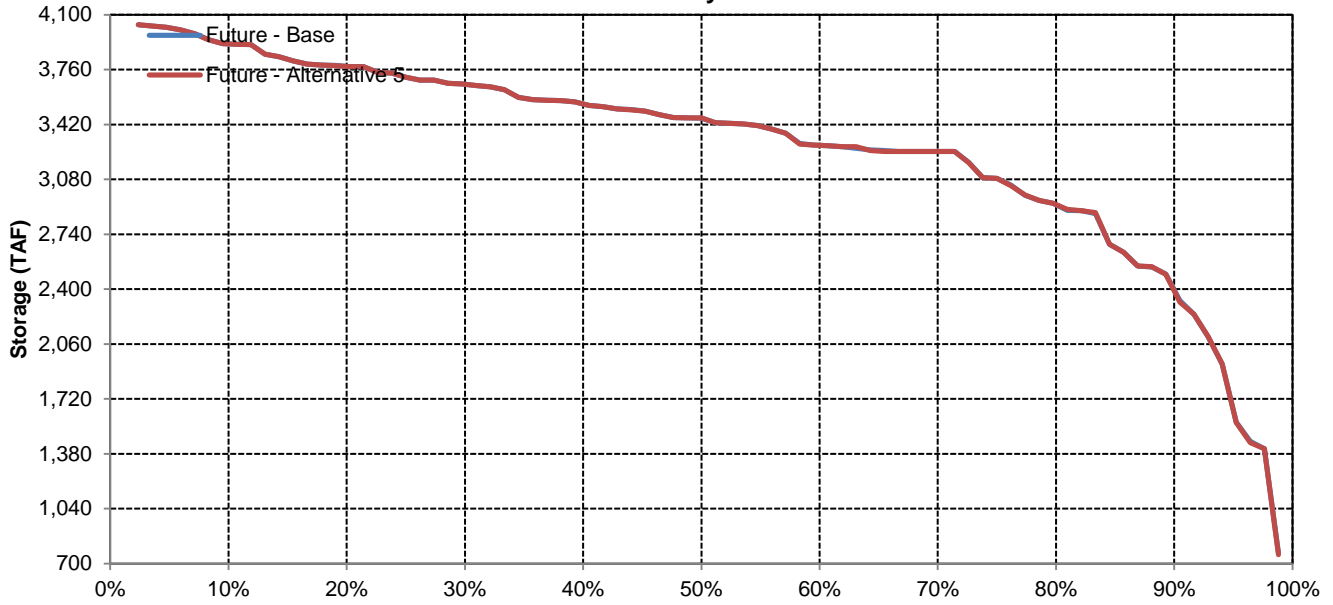


## January

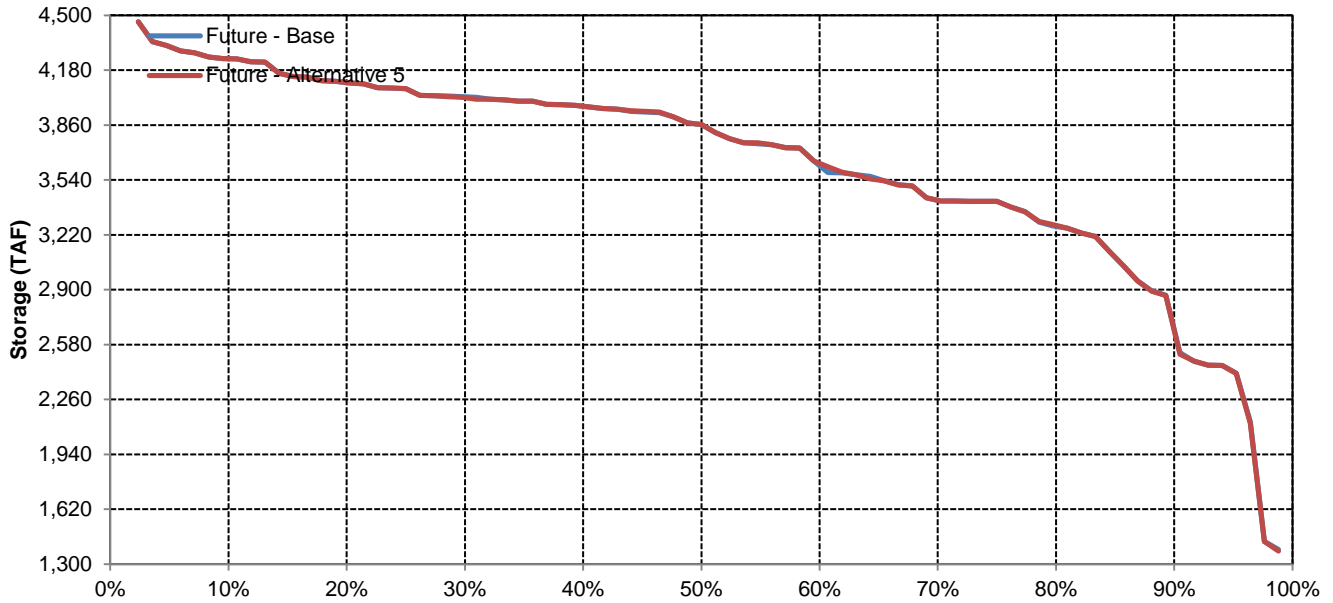


# Shasta Reservoir Storage

## February

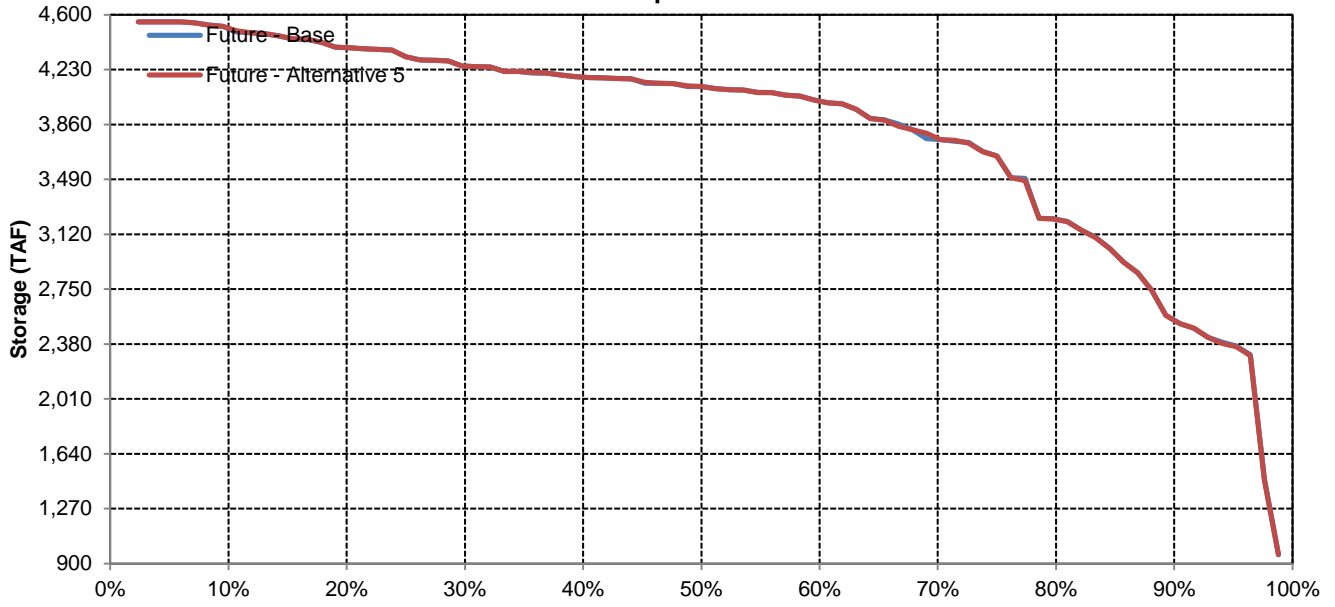


## March

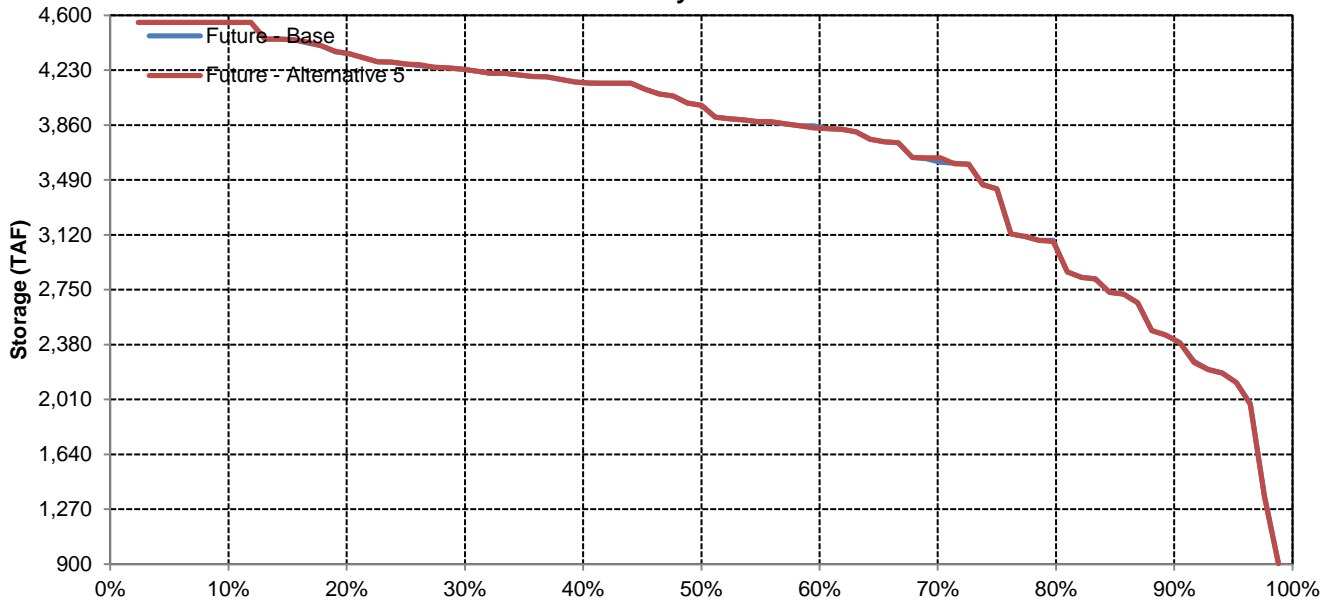


# Shasta Reservoir Storage

## April

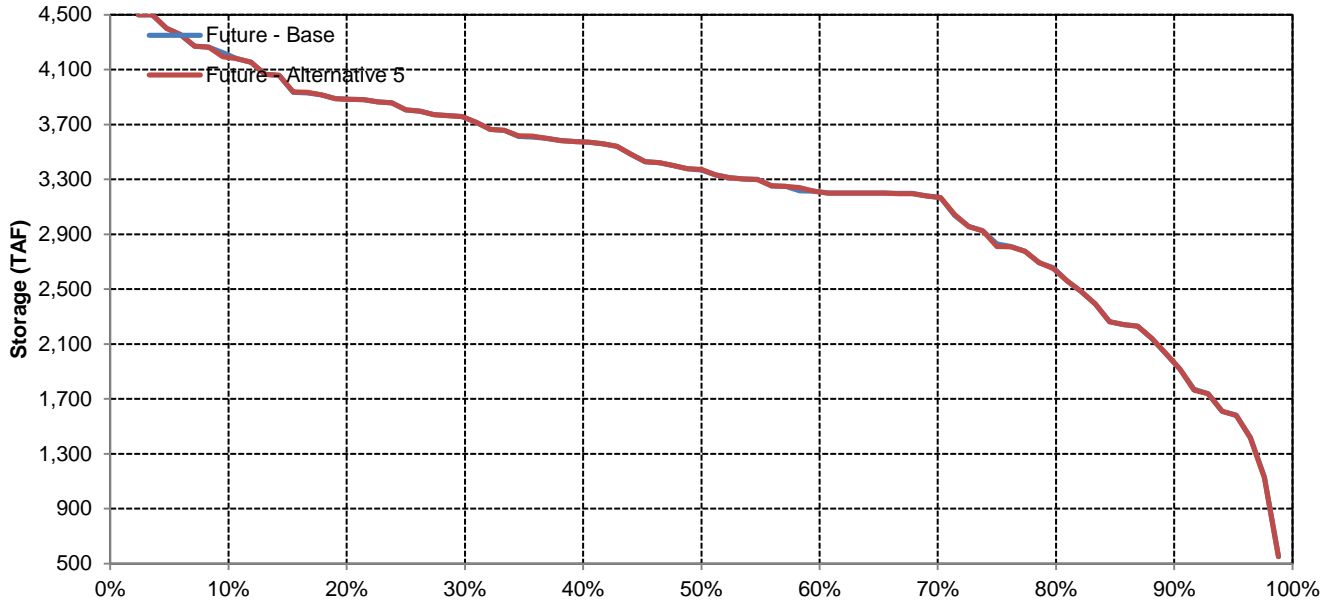


## May

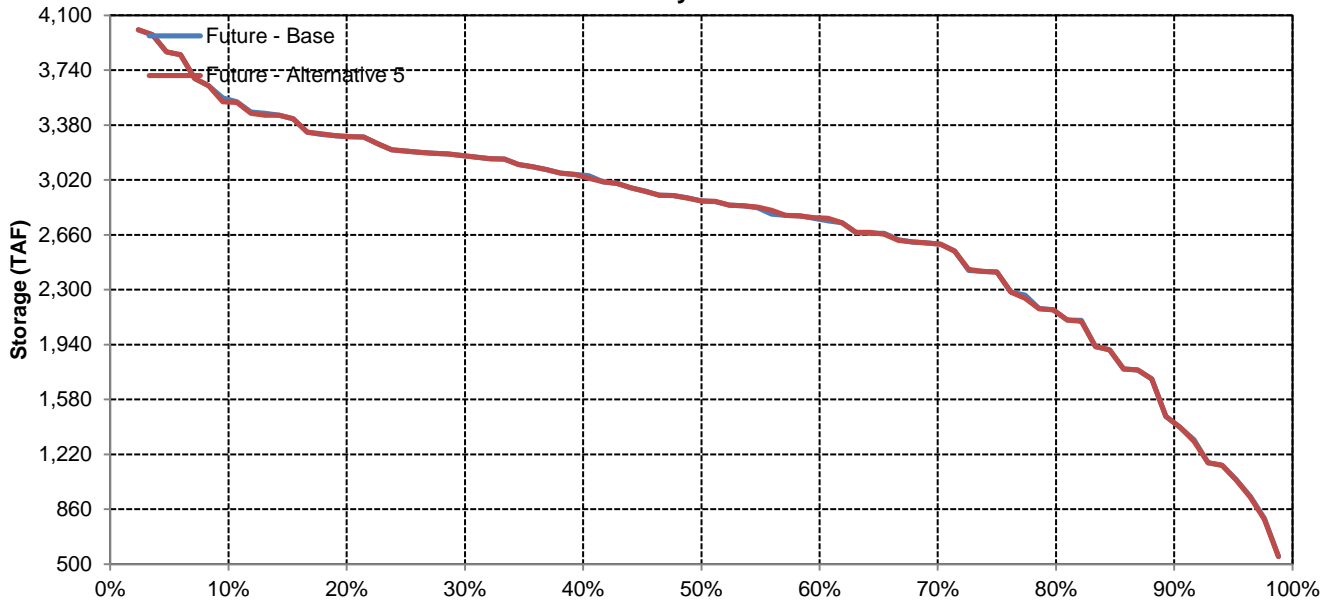


# Shasta Reservoir Storage

## June

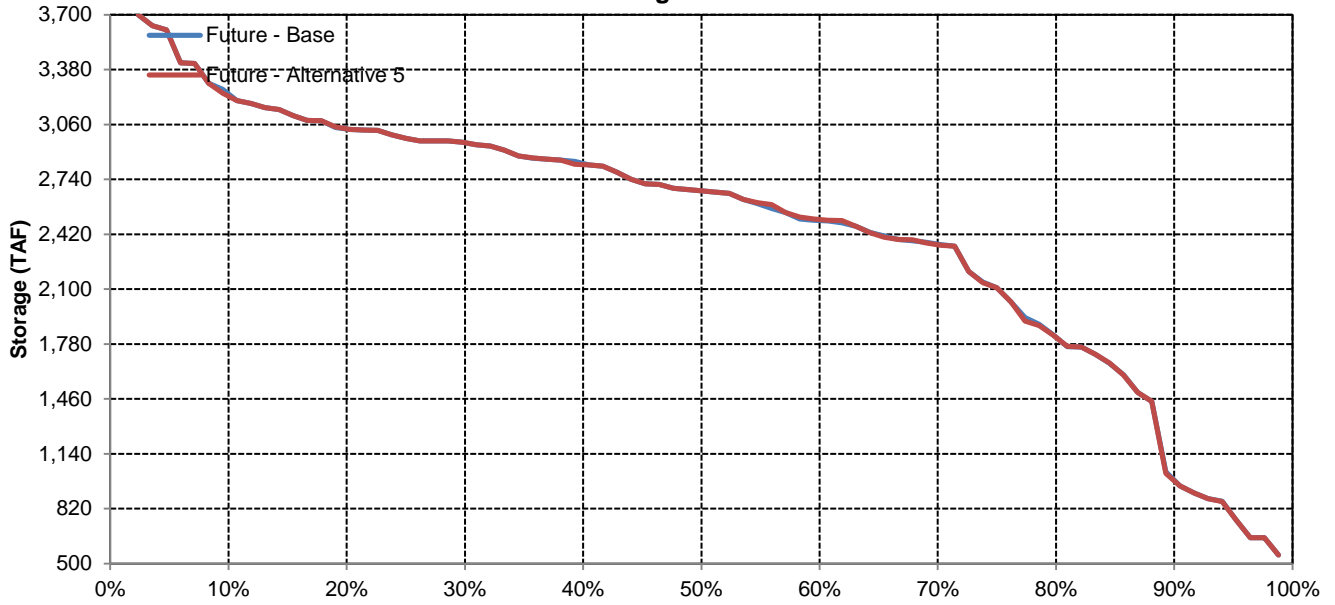


## July

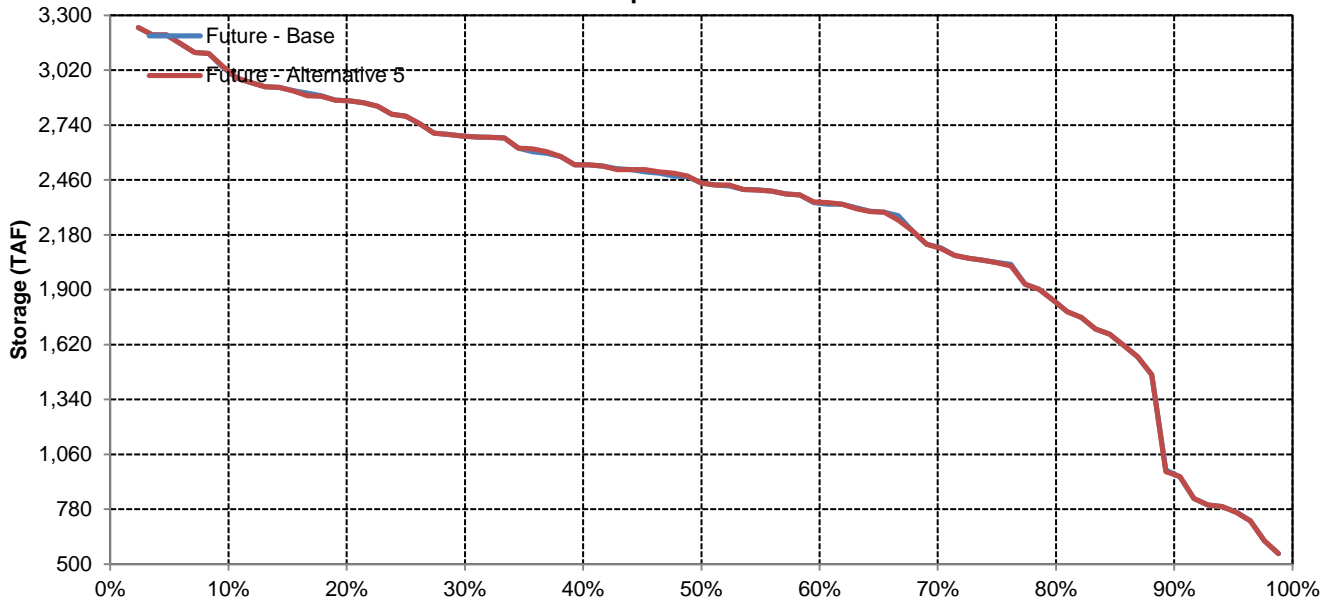


# Shasta Reservoir Storage

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	1,244	1,285	1,585	1,975	2,295	2,515	2,665	2,627	2,322	1,842	1,548	1,355
Future - Alternative 5	1,245	1,286	1,586	1,977	2,296	2,516	2,666	2,628	2,323	1,844	1,549	1,356
Difference	1	1	1	2	1	1	1	2	2	2	1	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	1,339	1,496	2,168	2,719	2,891	2,940	3,223	3,257	2,987	2,389	2,023	1,633
Future - Alternative 5	1,342	1,498	2,170	2,720	2,891	2,940	3,223	3,257	2,987	2,390	2,026	1,636
Difference	3	2	1	2	0	0	0	0	0	1	3	3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	1,447	1,447	1,640	2,269	2,768	2,962	3,196	3,169	2,777	2,174	1,831	1,539
Future - Alternative 5	1,443	1,443	1,642	2,274	2,769	2,962	3,196	3,169	2,777	2,174	1,831	1,540
Difference	-4	-4	2	5	1	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	1,249	1,221	1,348	1,711	2,121	2,564	2,712	2,662	2,276	1,745	1,468	1,397
Future - Alternative 5	1,251	1,221	1,348	1,712	2,123	2,565	2,713	2,667	2,280	1,749	1,465	1,394
Difference	2	0	0	2	2	2	2	5	4	5	-2	-3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>												
Future - Base	1,100	1,111	1,253	1,469	1,902	2,247	2,284	2,176	1,845	1,457	1,207	1,161
Future - Alternative 5	1,101	1,113	1,253	1,472	1,905	2,249	2,287	2,178	1,845	1,458	1,207	1,162
Difference	1	2	1	3	3	3	3	3	0	1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	1,087	1,038	1,079	1,222	1,410	1,580	1,555	1,479	1,306	1,102	916	863
Future - Alternative 5	1,086	1,038	1,079	1,222	1,411	1,581	1,556	1,479	1,313	1,106	916	866
Difference	0	0	0	0	0	0	0	0	7	4	0	3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%

Oroville Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,636	1,973	2,788	2,854	2,994	3,059	3,347	3,446	3,357	2,744	2,228	1,836
20%	1,502	1,552	2,259	2,788	2,856	2,991	3,237	3,254	3,034	2,401	2,003	1,666
30%	1,413	1,392	1,723	2,787	2,788	2,938	3,180	3,142	2,680	2,176	1,819	1,572
40%	1,252	1,284	1,473	2,185	2,788	2,833	3,081	3,034	2,528	1,958	1,679	1,439
50%	1,159	1,175	1,411	1,820	2,492	2,788	2,979	2,790	2,386	1,840	1,570	1,325
60%	1,084	1,076	1,258	1,613	2,165	2,539	2,672	2,667	2,222	1,693	1,307	1,222
70%	998	1,001	1,180	1,458	1,946	2,268	2,297	2,185	1,924	1,499	1,201	1,097
80%	985	953	1,002	1,258	1,538	1,950	2,026	1,954	1,706	1,328	1,052	995
90%	829	891	941	1,010	1,262	1,594	1,557	1,411	1,216	1,006	916	879
<b>Long Term</b>												
Full Simulation Period	1,244	1,285	1,585	1,975	2,295	2,515	2,665	2,627	2,322	1,842	1,548	1,355
<b>Water Year Types</b>												
Wet	1,339	1,496	2,168	2,719	2,891	2,940	3,223	3,257	2,987	2,389	2,023	1,633
Above Normal	1,447	1,447	1,640	2,269	2,768	2,962	3,196	3,169	2,777	2,174	1,831	1,539
Below Normal	1,249	1,221	1,348	1,711	2,121	2,564	2,712	2,662	2,276	1,745	1,468	1,397
Dry	1,100	1,111	1,253	1,469	1,902	2,247	2,284	2,176	1,845	1,457	1,207	1,161
Critical	1,087	1,038	1,079	1,222	1,410	1,580	1,555	1,479	1,306	1,102	916	863

Future - Alternative 5

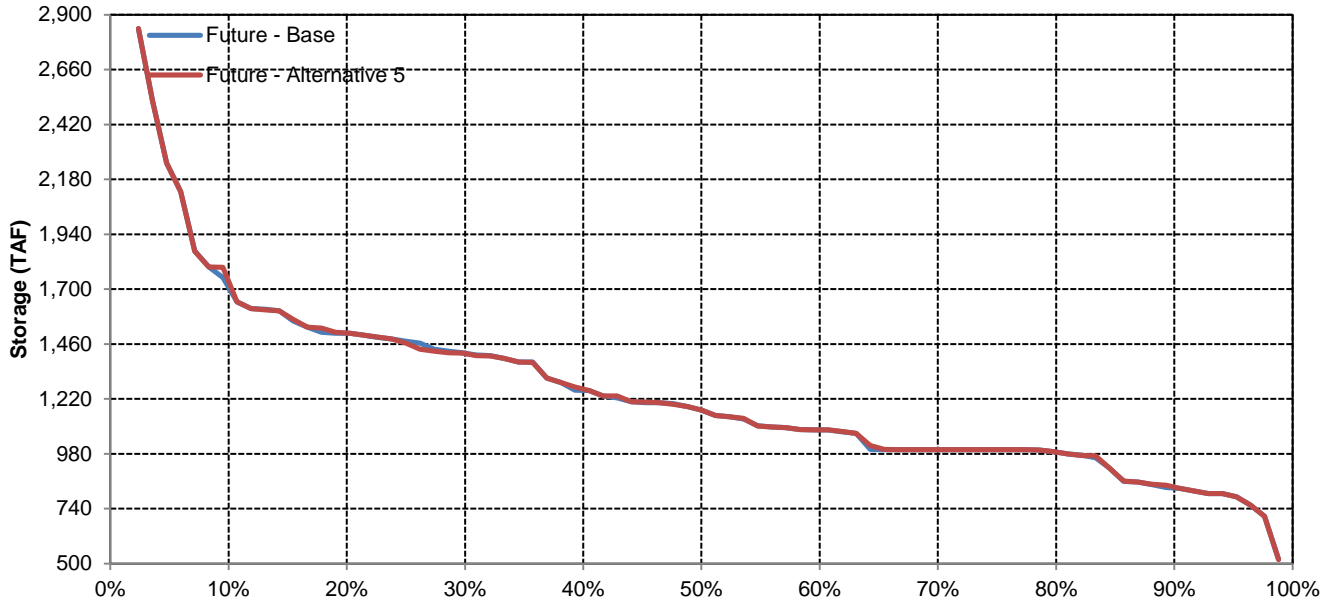
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,636	1,973	2,788	2,854	2,994	3,059	3,347	3,446	3,357	2,762	2,228	1,835
20%	1,502	1,542	2,266	2,788	2,856	2,991	3,237	3,254	3,034	2,401	2,003	1,666
30%	1,410	1,391	1,700	2,787	2,788	2,938	3,180	3,142	2,679	2,176	1,819	1,574
40%	1,252	1,285	1,474	2,185	2,788	2,844	3,081	3,044	2,530	1,960	1,679	1,439
50%	1,159	1,176	1,412	1,820	2,494	2,788	2,979	2,790	2,386	1,847	1,570	1,323
60%	1,084	1,076	1,258	1,614	2,165	2,539	2,672	2,667	2,222	1,693	1,312	1,222
70%	998	1,001	1,180	1,458	1,946	2,269	2,298	2,187	1,925	1,515	1,199	1,095
80%	986	956	1,002	1,258	1,538	1,951	2,027	1,954	1,734	1,306	1,030	995
90%	833	891	941	1,024	1,271	1,594	1,557	1,411	1,216	1,007	917	879
<b>Long Term</b>												
Full Simulation Period	1,245	1,286	1,586	1,977	2,296	2,516	2,666	2,628	2,323	1,844	1,549	1,356
<b>Water Year Types</b>												
Wet	1,342	1,498	2,170	2,720	2,891	2,940	3,223	3,257	2,987	2,390	2,026	1,636
Above Normal	1,443	1,443	1,642	2,274	2,769	2,962	3,196	3,169	2,777	2,174	1,831	1,540
Below Normal	1,251	1,221	1,348	1,712	2,123	2,565	2,713	2,667	2,280	1,749	1,465	1,394
Dry	1,101	1,113	1,253	1,472	1,905	2,249	2,287	2,178	1,845	1,458	1,207	1,162
Critical	1,086	1,038	1,079	1,222	1,411	1,581	1,556	1,479	1,313	1,106	916	866

Future - Alternative 5 Minus Future - Base

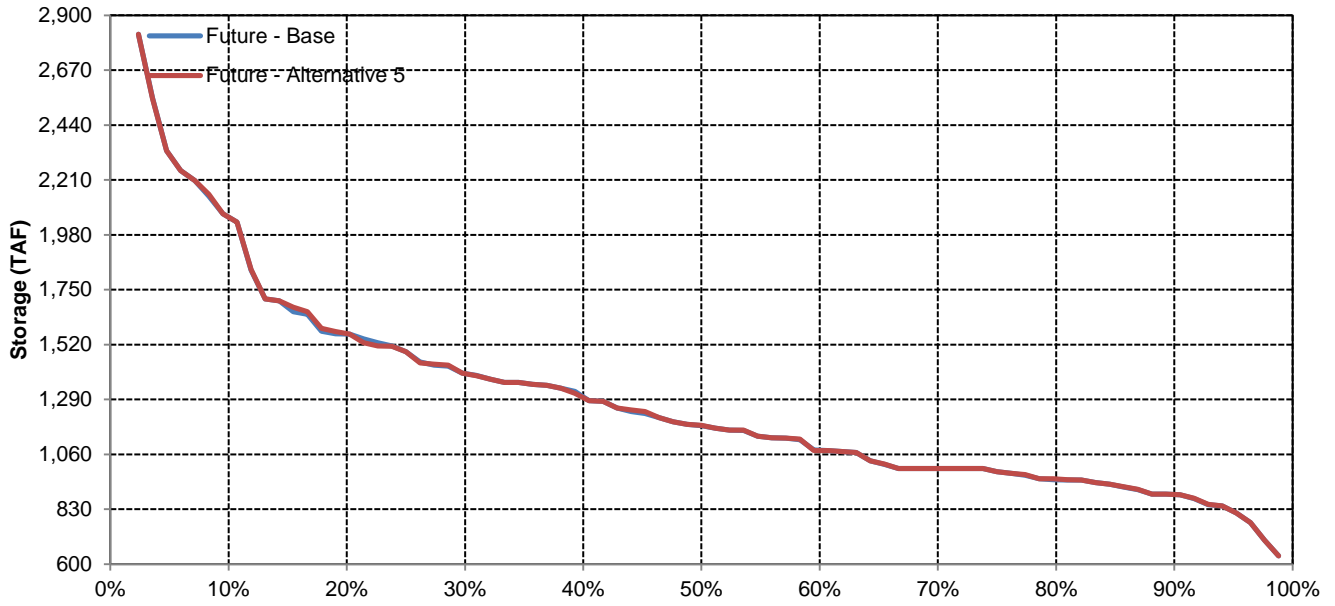
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	17	0	-1
20%	0	-10	7	0	0	0	0	0	0	0	0	0
30%	-3	-2	-23	0	0	0	0	0	0	0	-1	2
40%	0	0	0	0	0	11	0	10	3	2	0	0
50%	0	1	0	0	2	0	0	0	0	8	0	-1
60%	0	-1	0	0	0	0	0	0	0	0	4	0
70%	0	0	0	0	0	1	0	2	2	15	-2	-2
80%	0	2	0	0	0	1	1	0	28	-22	-22	0
90%	3	0	0	14	9	0	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	1	1	1	2	1	1	1	2	2	2	1	1
<b>Water Year Types</b>												
Wet	3	2	1	2	0	0	0	0	0	1	3	3
Above Normal	-4	-4	2	5	1	0	0	0	0	0	0	0
Below Normal	2	0	0	2	2	2	2	5	4	5	-2	-3
Dry	1	2	1	3	3	3	3	3	0	1	0	0
Critical	0	0	0	0	0	0	0	0	7	4	0	3

# Oroville Reservoir

## October



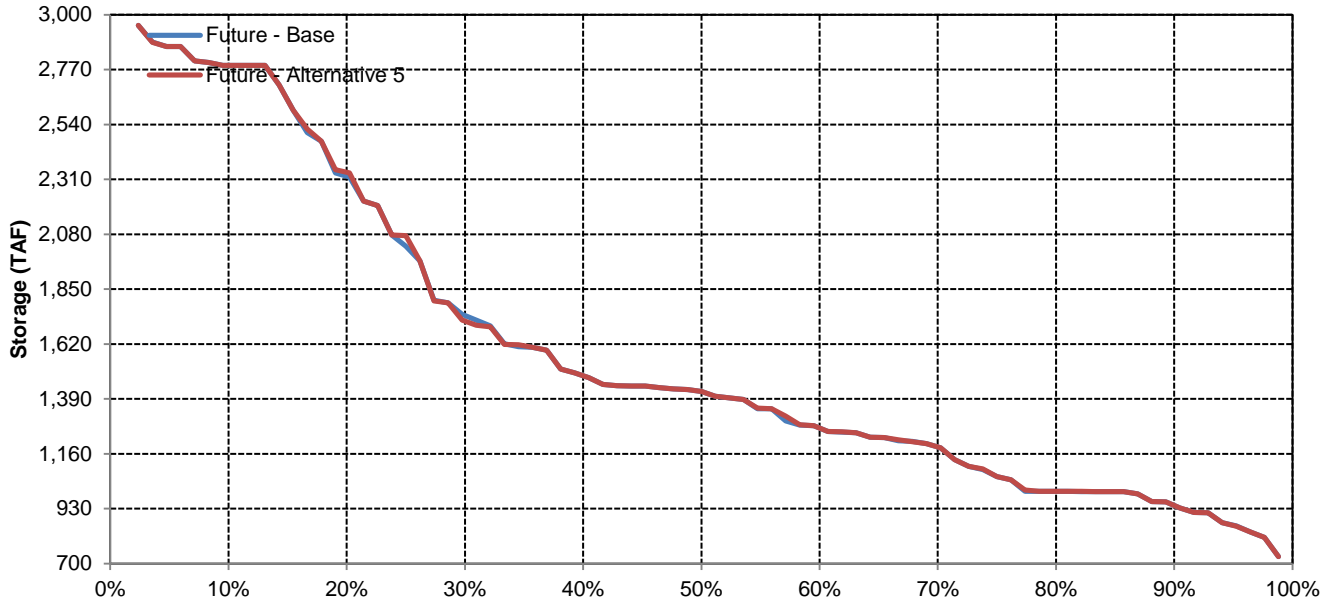
## November



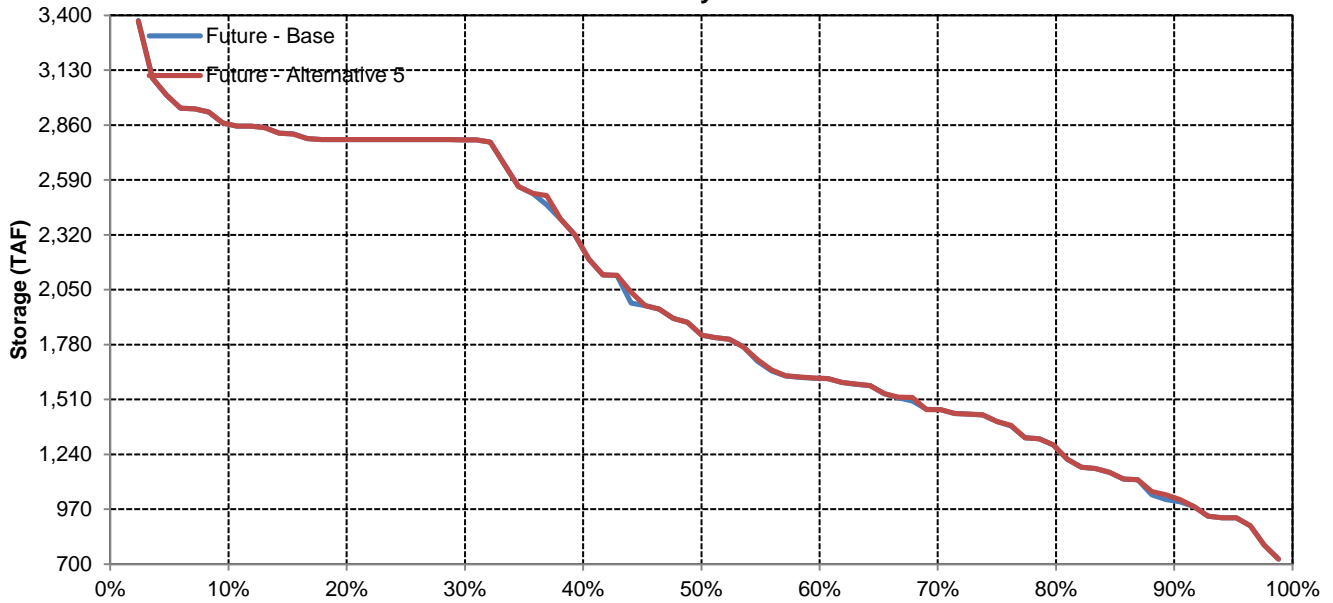


# Oroville Reservoir

## December

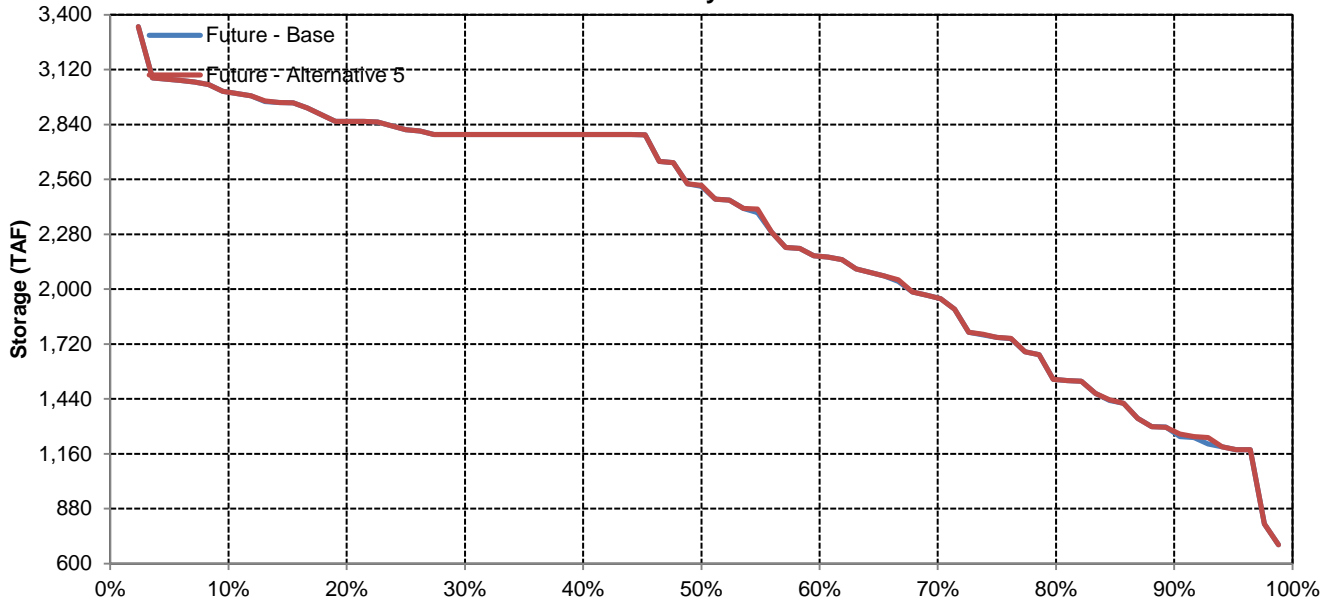


## January

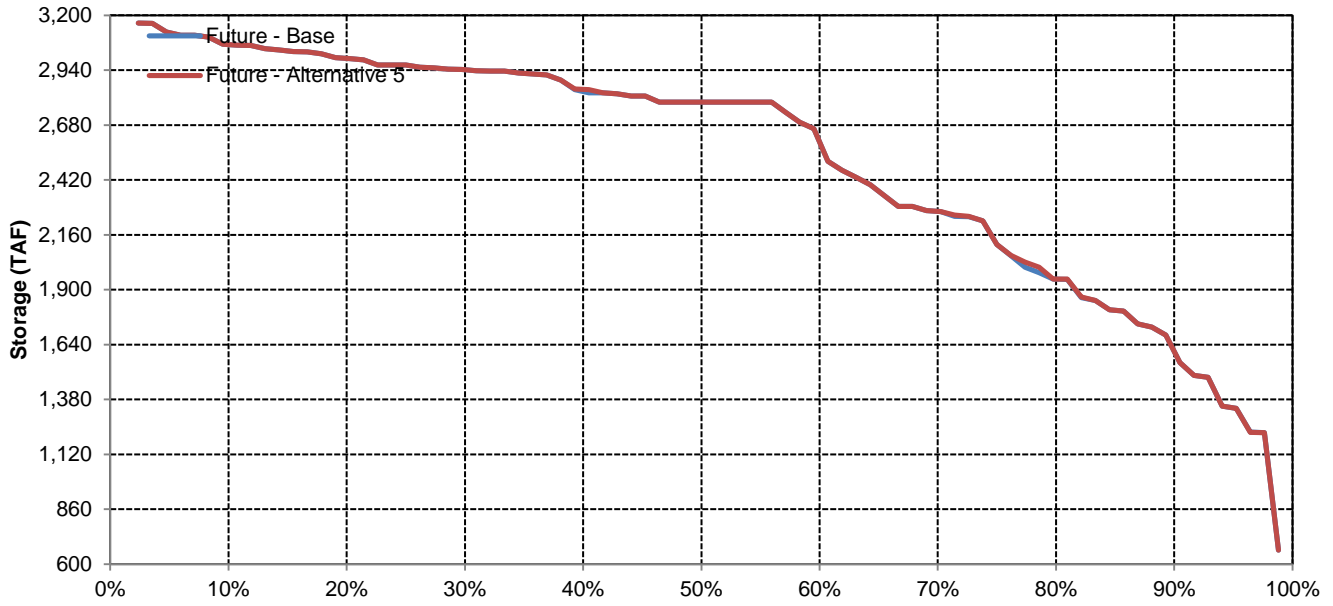


# Oroville Reservoir

## February

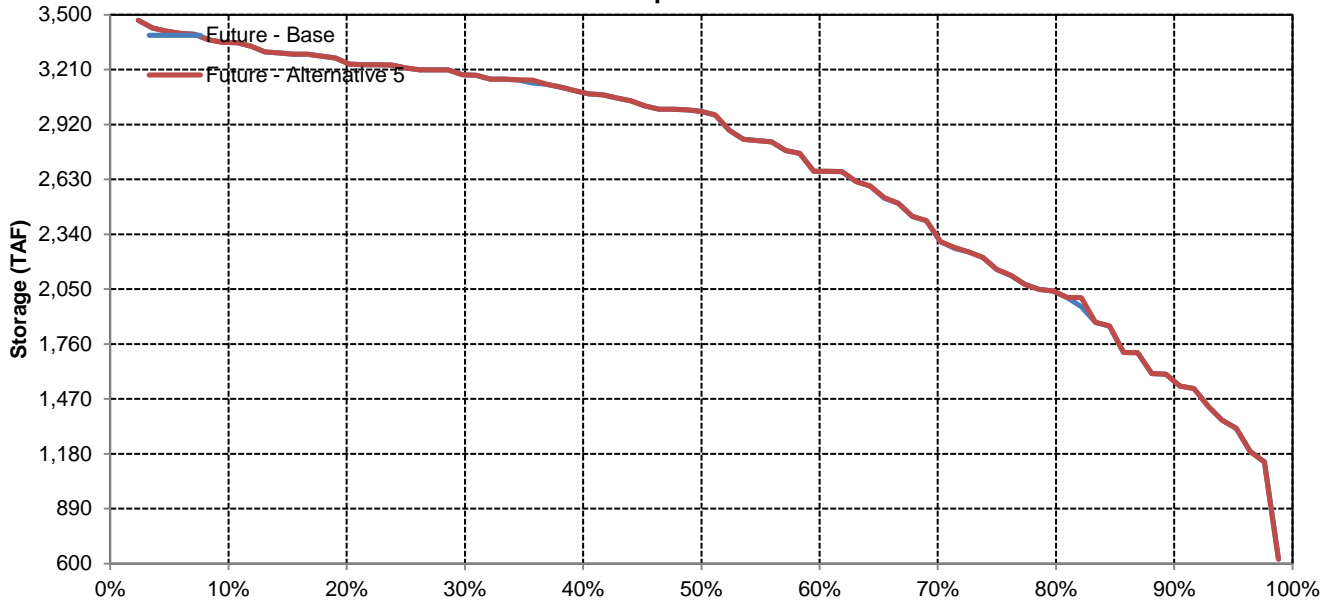


## March

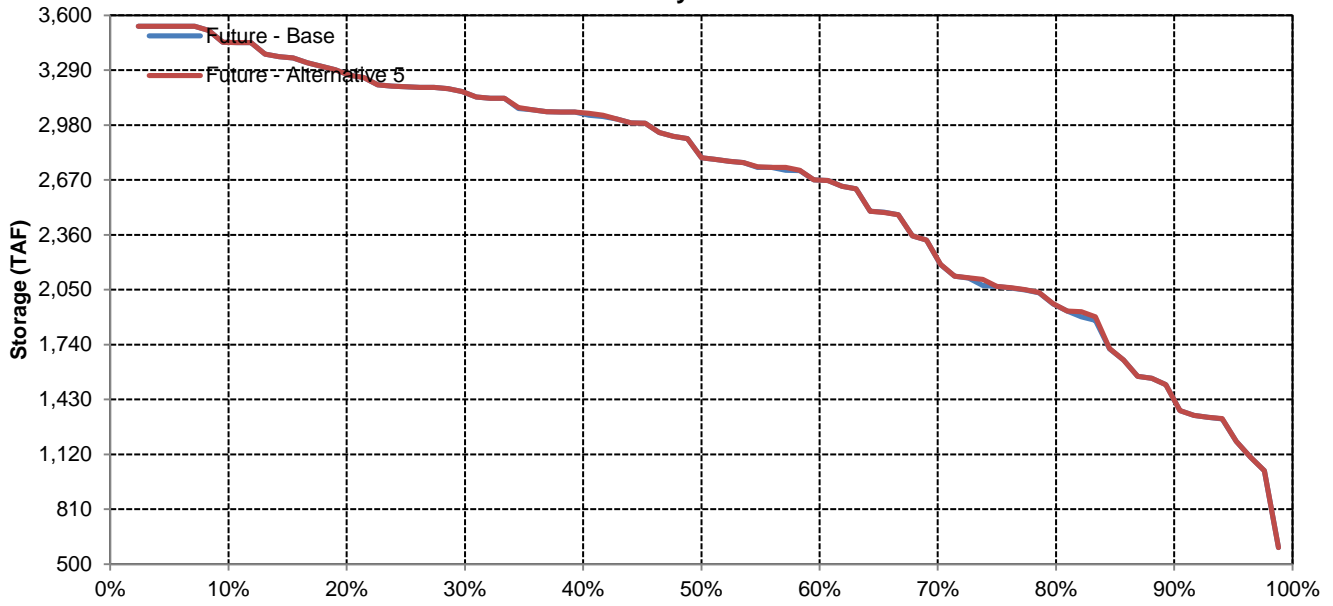


# Oroville Reservoir

## April

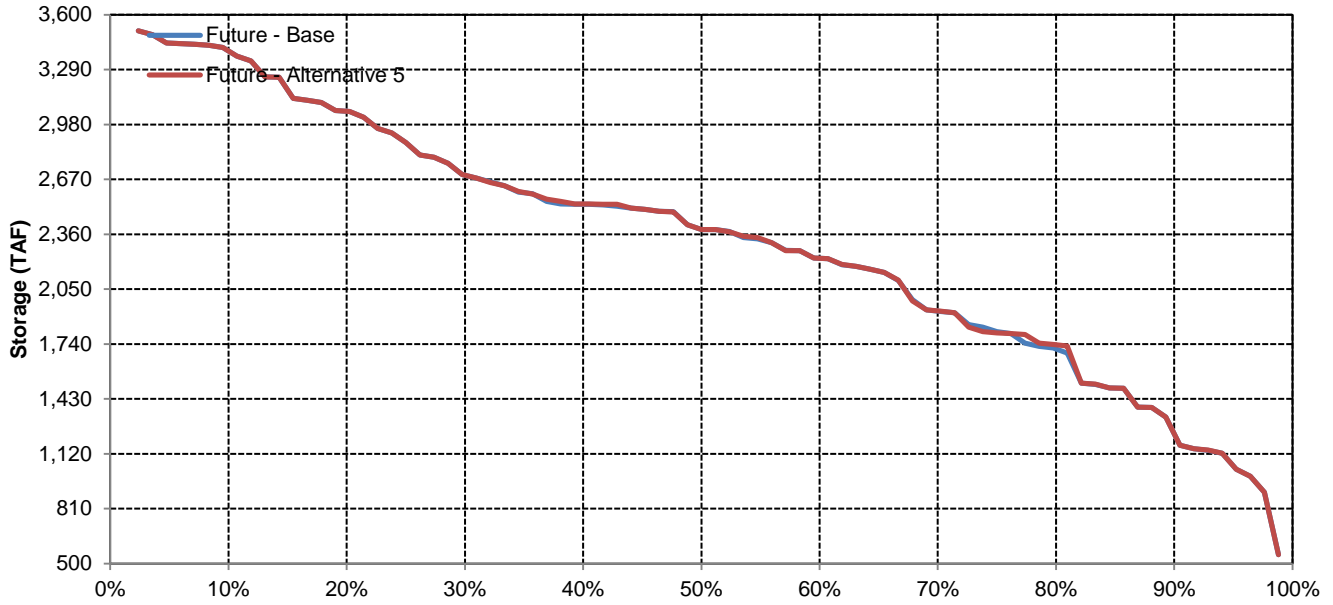


## May

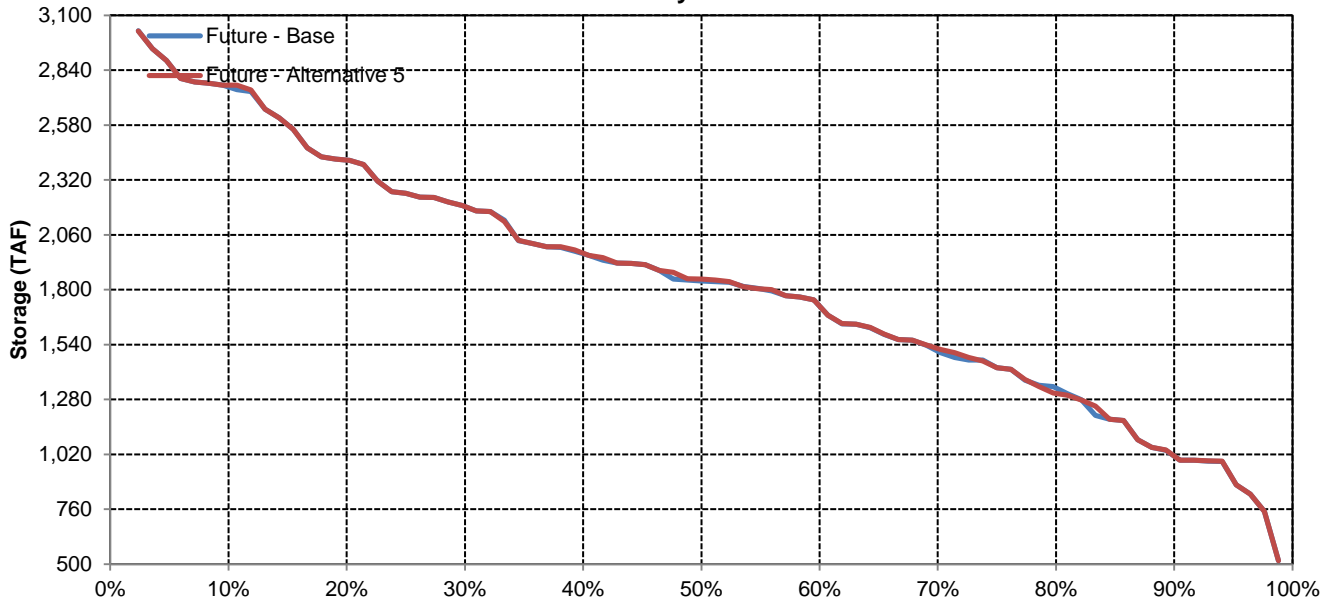


# Oroville Reservoir

## June

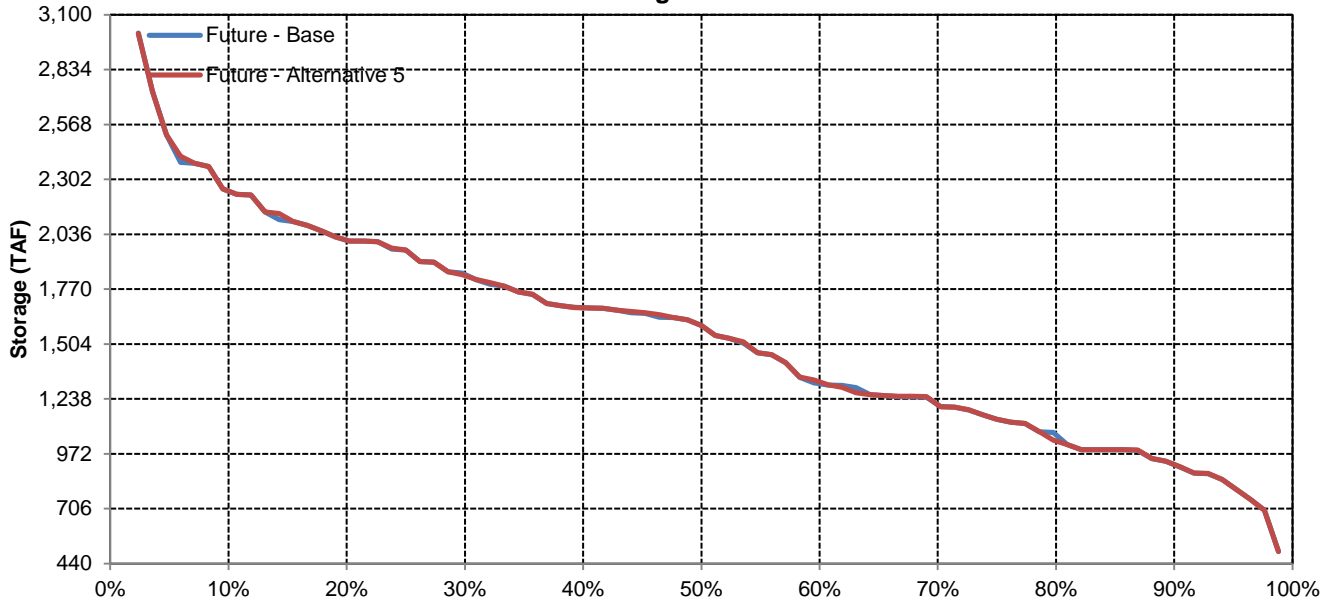


## July

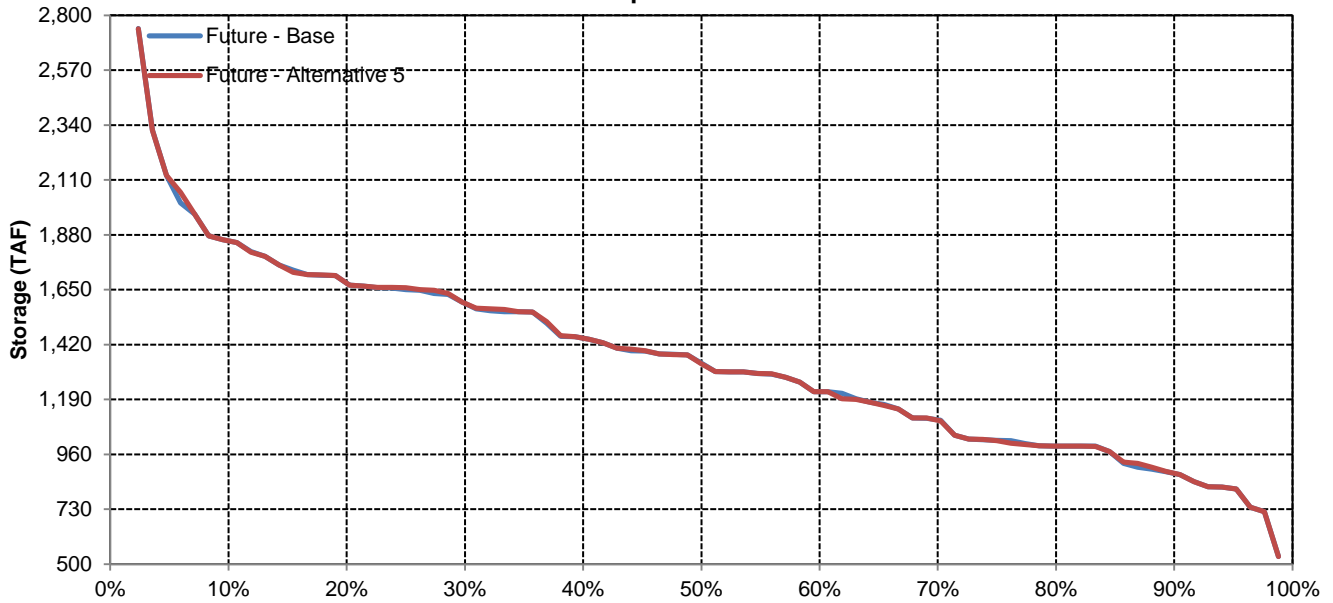


# Oroville Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	354	352	404	454	482	592	680	678	580	460	427	390
Future - Alternative 5	354	352	404	454	482	592	680	678	580	461	427	391
Difference	0	0	0	0	0	0	0	0	1	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	368	385	480	522	509	624	760	806	699	547	509	430
Future - Alternative 5	368	385	480	522	509	624	760	806	699	546	508	430
Difference	1	0	0	0	0	0	0	0	0	-1	-1	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	363	358	415	512	550	644	766	766	668	492	471	427
Future - Alternative 5	362	357	415	512	550	644	766	766	668	492	471	427
Difference	-1	-1	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	375	361	399	471	508	624	727	714	609	493	465	455
Future - Alternative 5	375	362	400	471	508	624	727	714	610	495	467	457
Difference	1	1	0	0	0	0	0	0	1	2	2	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>												
Future - Base	336	332	372	411	477	592	646	596	489	395	356	357
Future - Alternative 5	336	333	373	412	477	592	646	596	491	396	358	359
Difference	1	1	1	1	0	0	0	0	2	1	1	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	321	298	288	306	341	440	436	418	360	317	287	256
Future - Alternative 5	321	297	288	306	341	439	436	418	360	317	286	255
Difference	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Folsom Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	487	501	567	567	567	662	792	939	828	636	580	540
20%	445	437	566	567	567	656	792	820	729	587	548	504
30%	395	394	498	564	563	652	792	763	694	549	519	455
40%	365	365	432	556	557	645	791	745	621	495	483	417
50%	349	342	392	507	549	629	766	706	592	443	413	396
60%	321	327	352	454	495	616	701	656	538	418	388	360
70%	304	311	319	372	443	590	635	600	500	383	356	333
80%	269	272	302	305	386	565	554	498	404	332	305	295
90%	223	217	252	260	302	426	437	426	355	311	276	231
<b>Long Term</b>												
Full Simulation Period	354	352	404	454	482	592	680	678	580	460	427	390
<b>Water Year Types</b>												
Wet	368	385	480	522	509	624	760	806	699	547	509	430
Above Normal	363	358	415	512	550	644	766	766	668	492	471	427
Below Normal	375	361	399	471	508	624	727	714	609	493	465	455
Dry	336	332	372	411	477	592	646	596	489	395	356	357
Critical	321	298	288	306	341	440	436	418	360	317	287	256

Future - Alternative 5

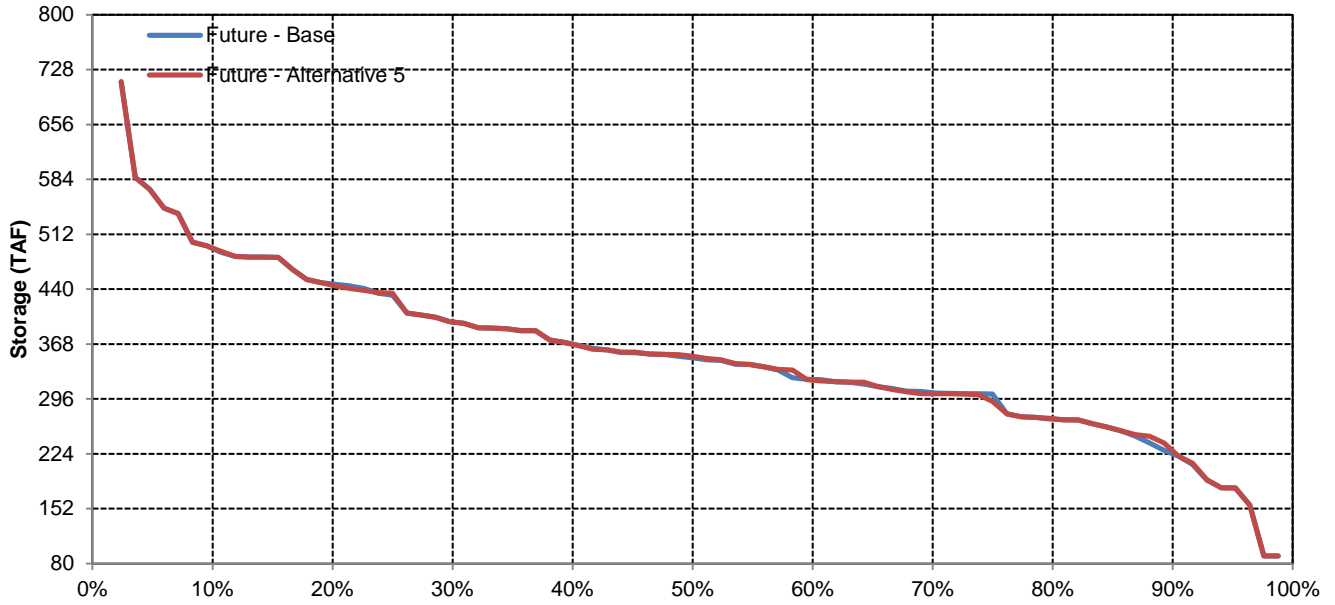
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	488	502	567	567	567	662	792	939	829	636	581	541
20%	442	437	564	567	567	656	792	820	729	587	548	503
30%	395	394	498	564	563	652	792	763	694	549	519	457
40%	365	365	432	556	557	645	791	745	621	495	483	417
50%	351	342	391	507	549	629	766	706	592	448	413	396
60%	320	327	352	454	495	616	701	656	541	419	389	360
70%	303	309	318	372	443	590	635	600	500	379	350	334
80%	270	272	303	305	386	565	554	498	404	331	305	295
90%	226	218	252	262	301	426	439	426	360	311	276	232
<b>Long Term</b>												
Full Simulation Period	354	352	404	454	482	592	680	678	580	461	427	391
<b>Water Year Types</b>												
Wet	368	385	480	522	509	624	760	806	699	546	508	430
Above Normal	362	357	415	512	550	644	766	766	668	492	471	427
Below Normal	375	362	400	471	508	624	727	714	610	495	467	457
Dry	336	333	373	412	477	592	646	596	491	396	358	359
Critical	321	297	288	306	341	439	436	418	360	317	286	255

Future - Alternative 5 Minus Future - Base

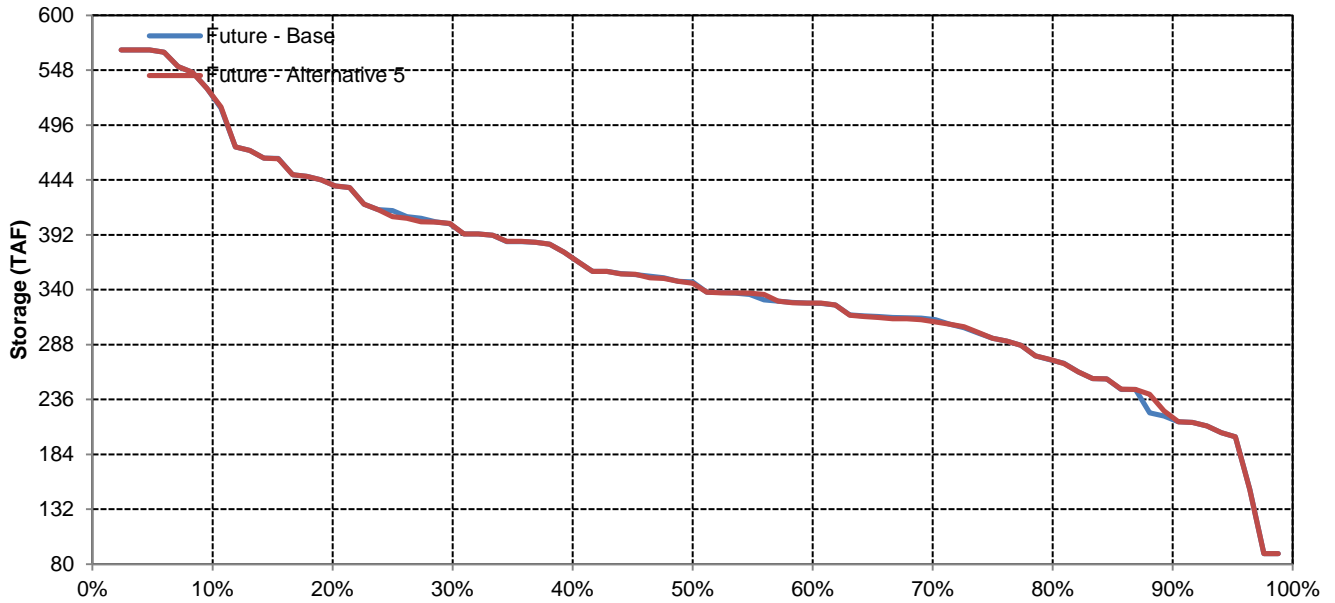
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	1	0	0	0	0	0	0	0	0	1	1
20%	-3	0	-2	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	2
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	2	-1	0	0	0	0	0	0	0	6	0	0
60%	-1	0	0	0	0	0	0	0	3	0	1	1
70%	-1	-2	-1	0	0	0	0	0	0	-5	-6	0
80%	0	0	0	0	0	0	0	0	0	-1	0	0
90%	3	1	0	1	0	0	2	0	5	0	0	1
<b>Long Term</b>												
Full Simulation Period	0	0	0	0	0	0	0	0	1	0	0	0
<b>Water Year Types</b>												
Wet	1	0	0	0	0	0	0	0	0	-1	-1	-1
Above Normal	-1	-1	0	0	0	0	0	0	0	0	0	0
Below Normal	1	1	0	0	0	0	0	0	1	2	2	2
Dry	1	1	1	1	0	0	0	0	2	1	1	1
Critical	0	0	0	0	0	0	0	0	0	0	0	0

# Folsom Reservoir

## October



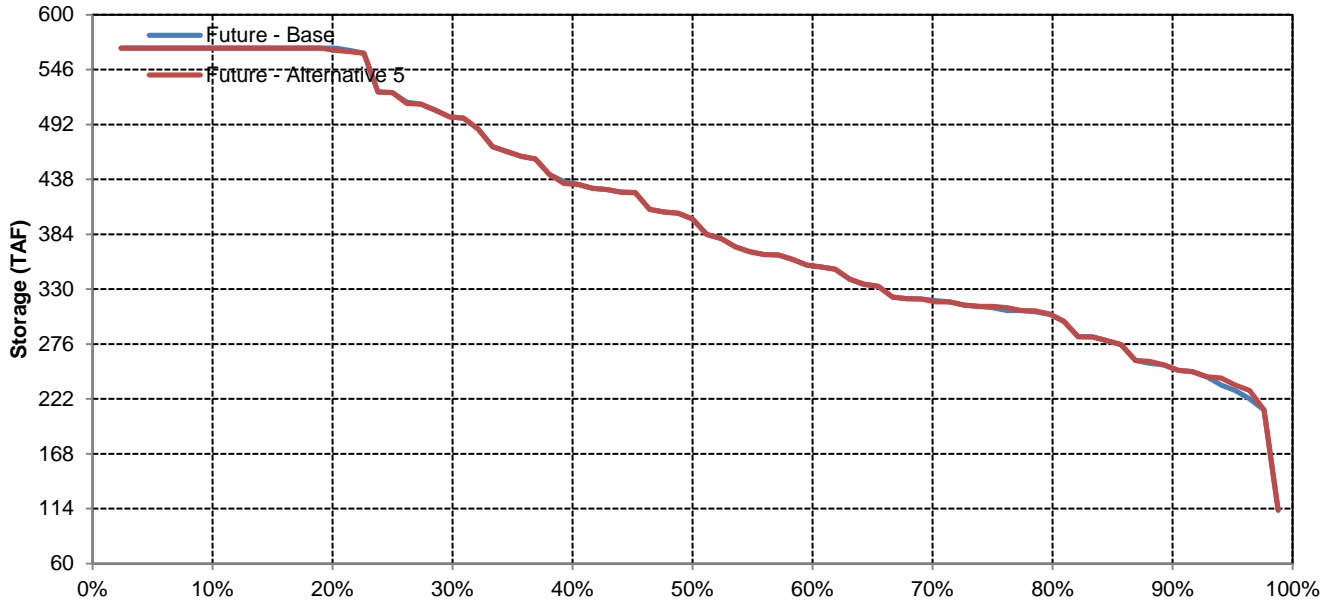
## November



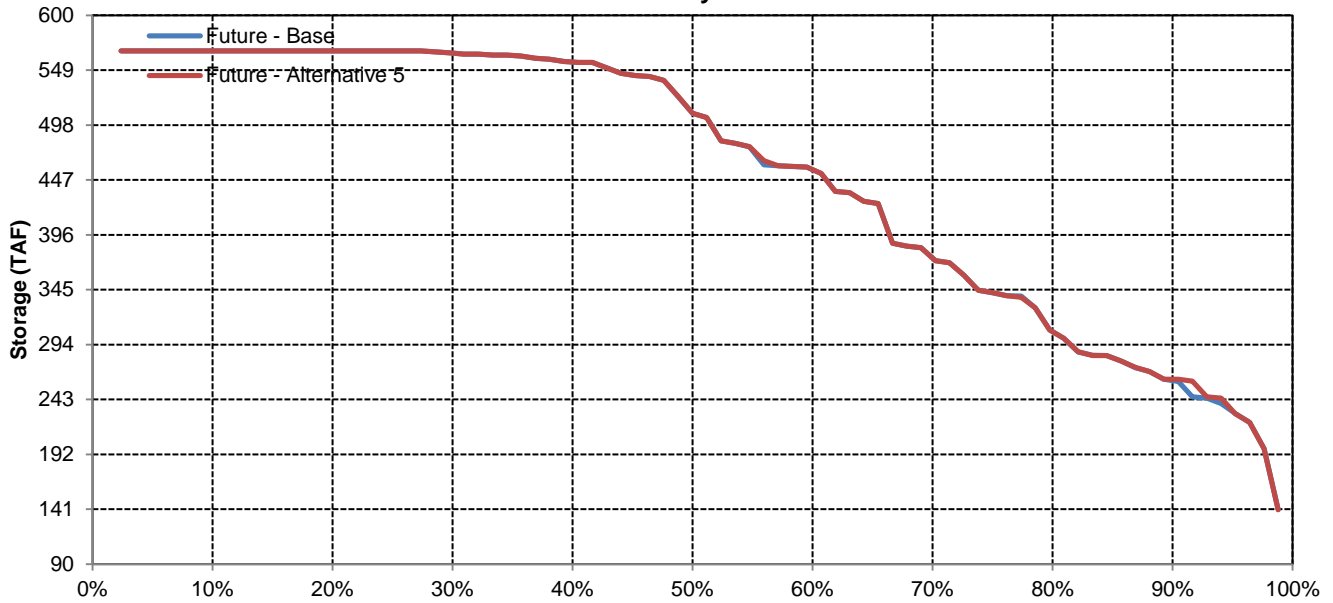


# Folsom Reservoir

## December

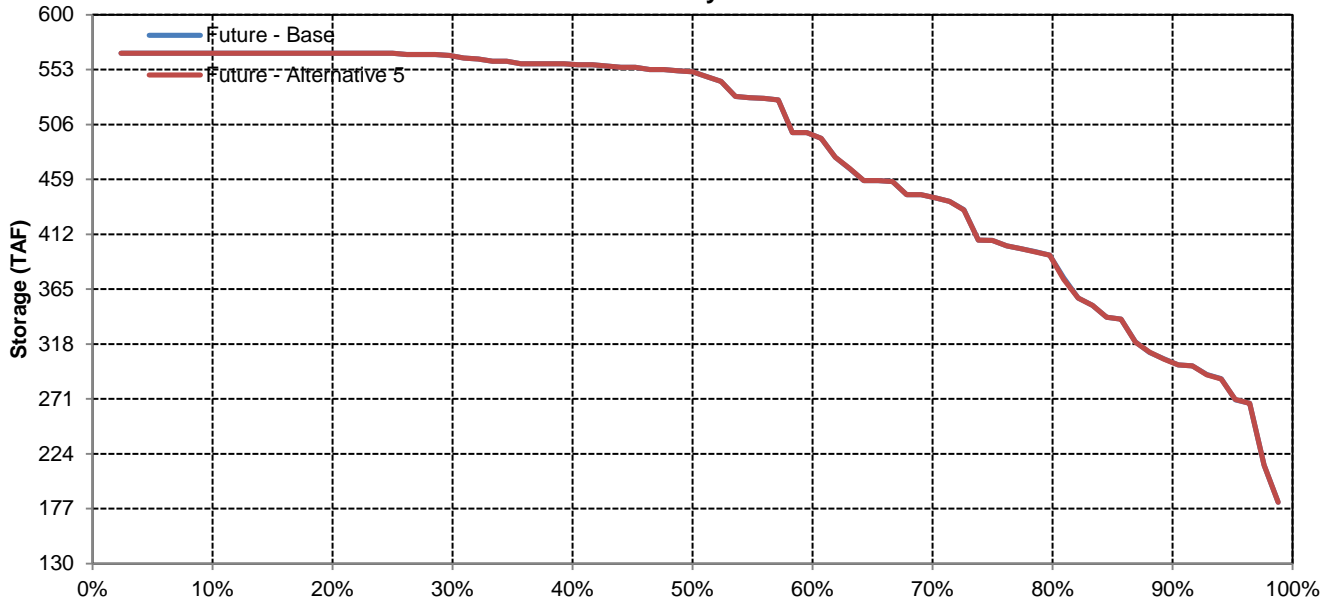


## January

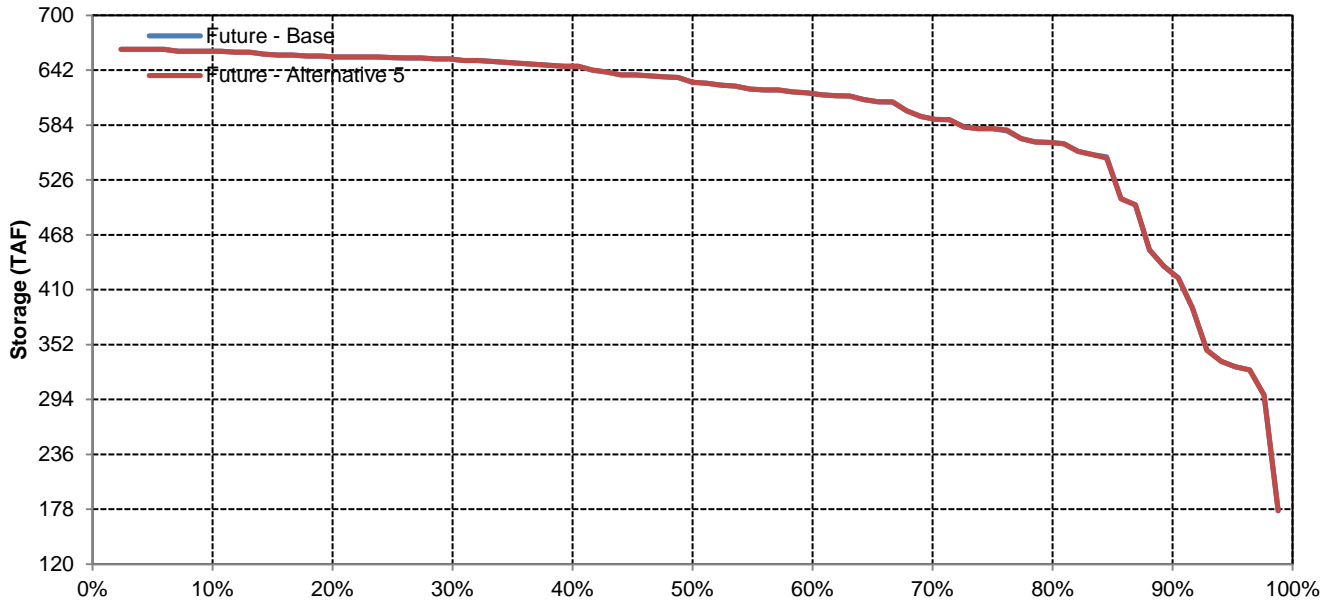


# Folsom Reservoir

## February

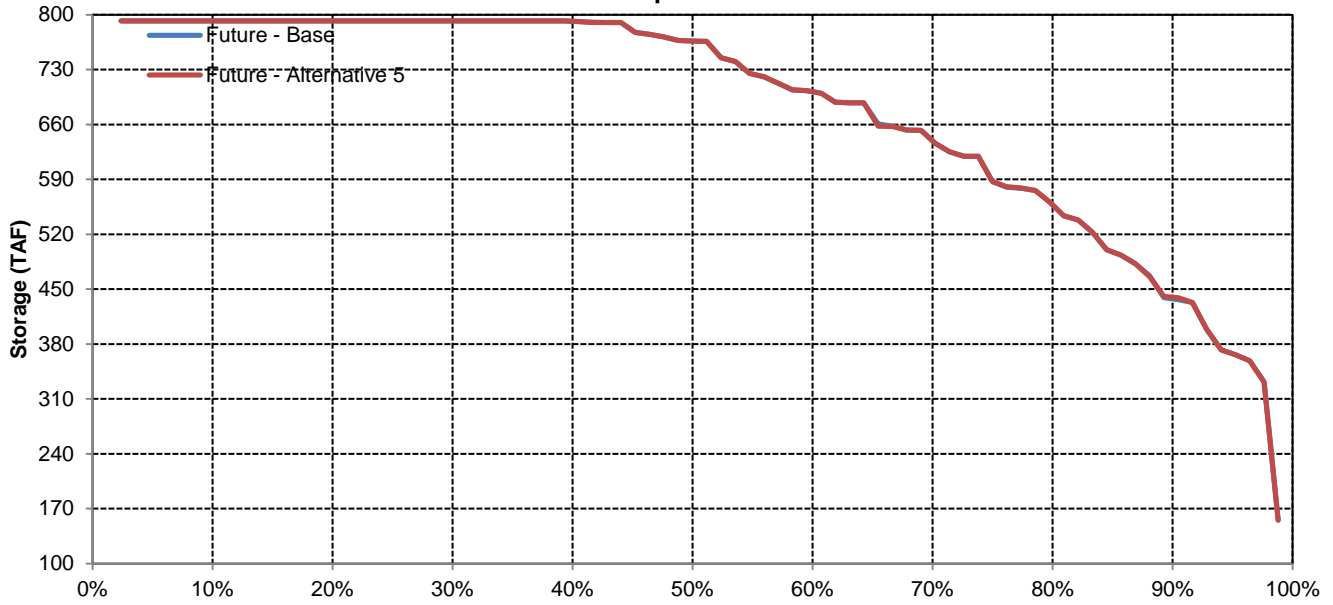


## March

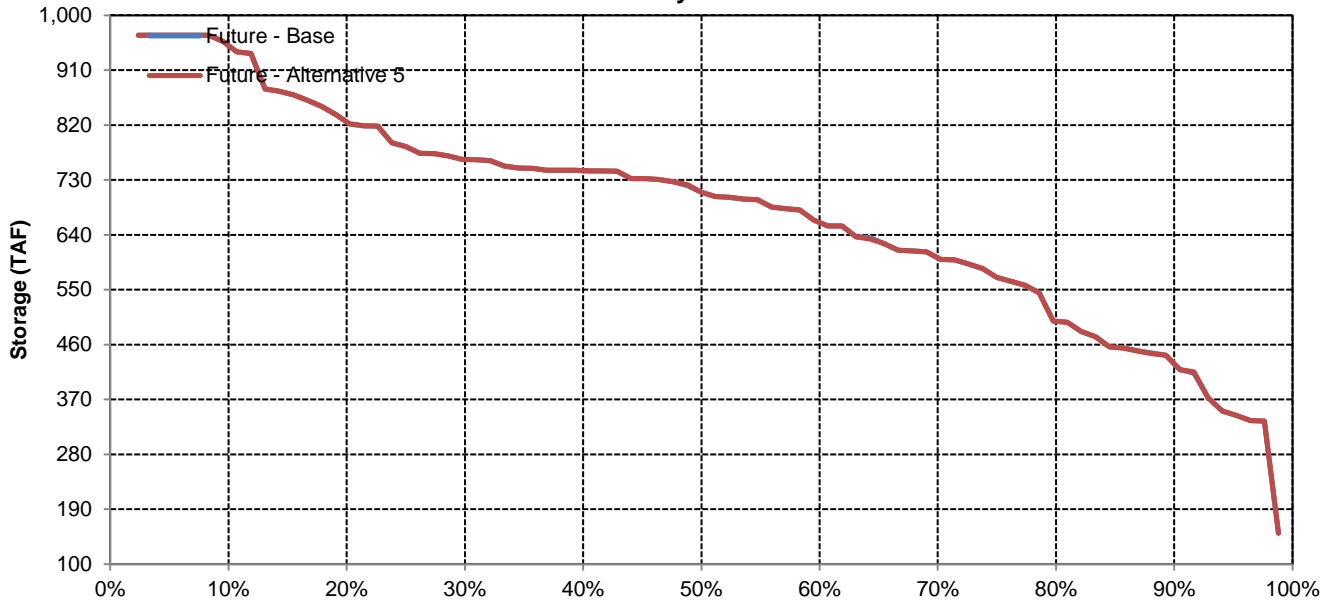


# Folsom Reservoir

## April

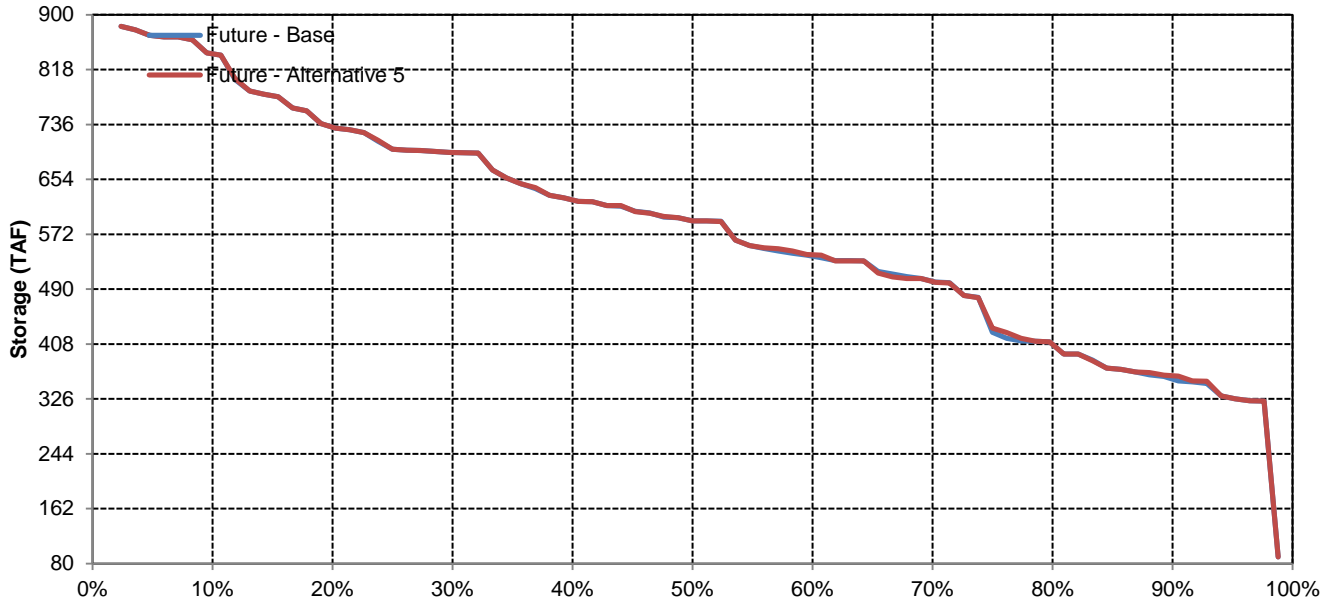


## May

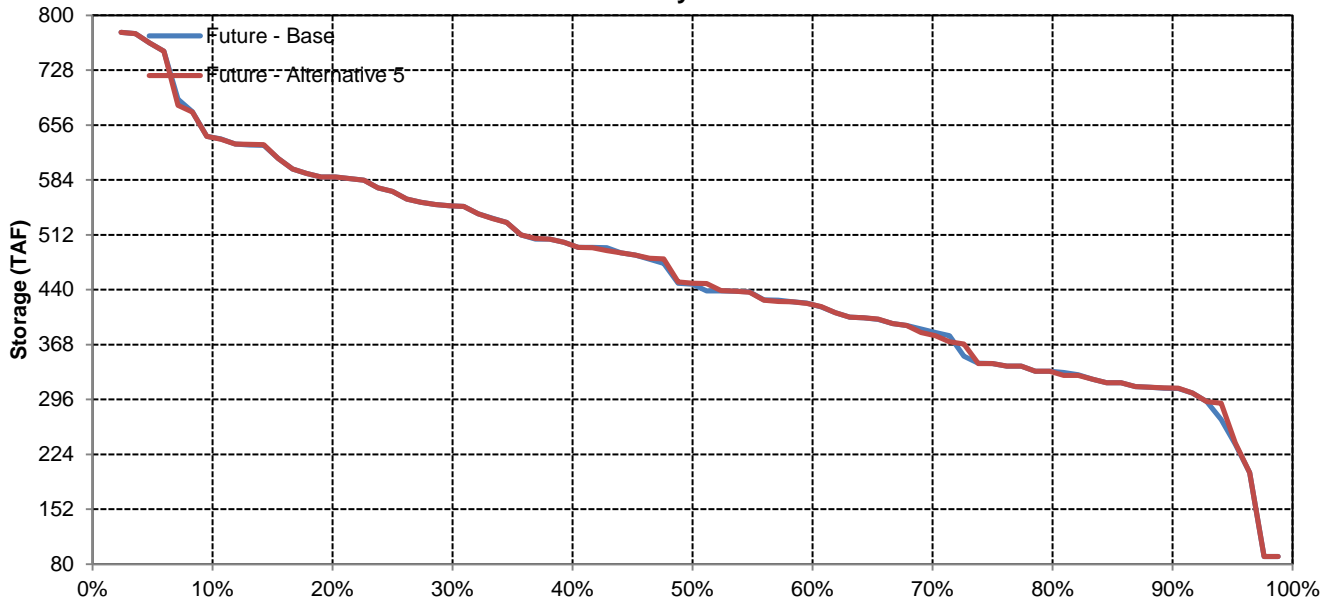


# Folsom Reservoir

## June

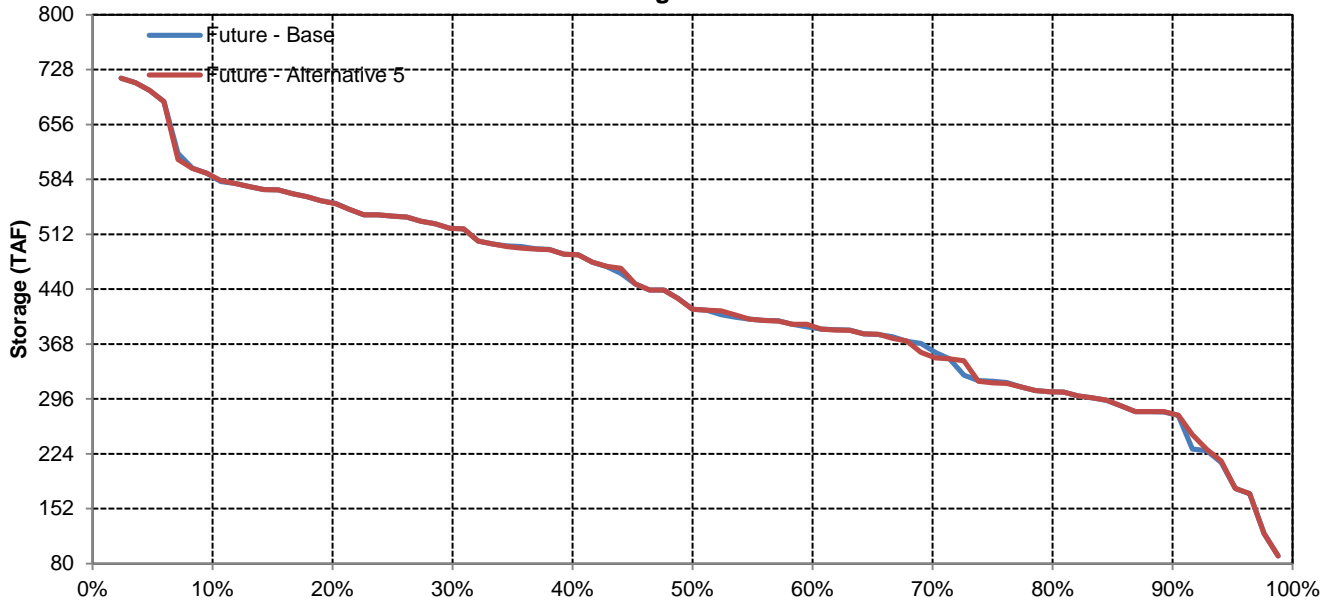


## July

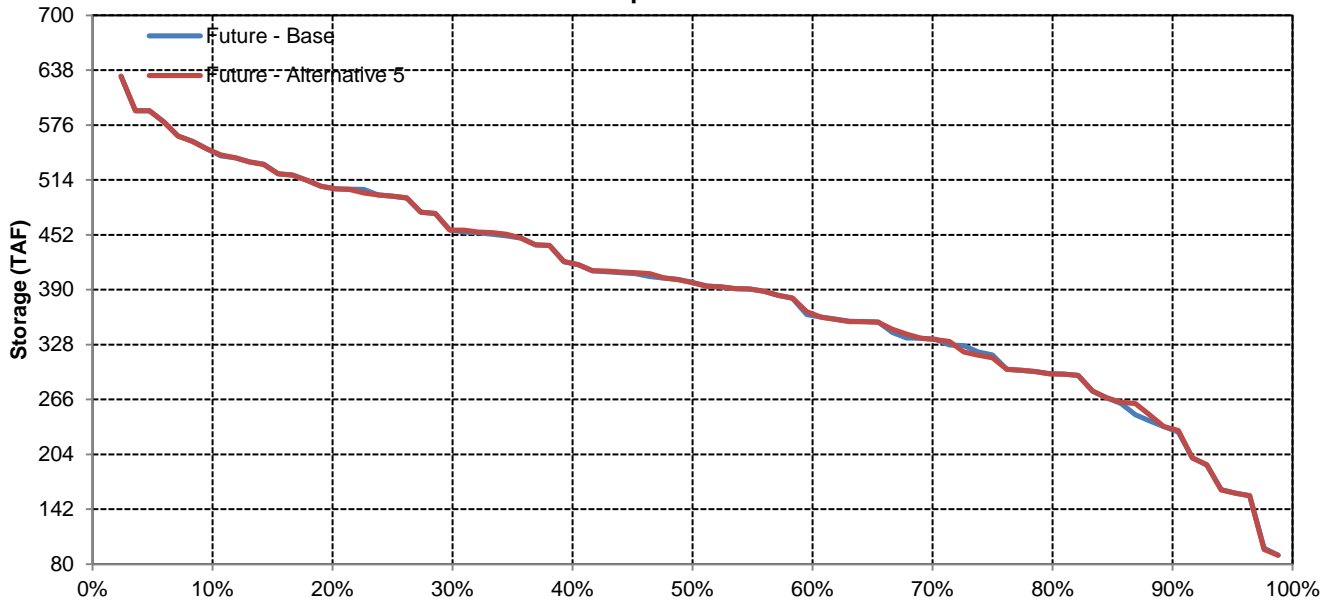


# Folsom Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	218	294	461	615	743	823	788	682	578	413	314	270
Future - Alternative 5	218	295	460	615	743	823	788	683	579	414	314	269
Difference	1	1	-1	0	0	1	0	0	0	1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	203	294	487	682	836	918	880	792	678	499	390	304
Future - Alternative 5	199	290	482	679	832	918	879	790	674	497	388	301
Difference	-4	-5	-5	-3	-3	0	-2	-1	-4	-2	-2	-3
Percent Difference	-2%	-2%	-1%	0%	0%	0%	0%	0%	-1%	0%	-1%	-1%
<b>Above Normal</b>												
Future - Base	215	289	456	607	754	844	802	668	594	409	303	202
Future - Alternative 5	225	298	459	610	754	844	801	667	594	409	303	202
Difference	10	9	3	3	-1	0	0	0	0	0	0	0
Percent Difference	4%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	237	280	459	588	713	836	815	706	632	430	313	312
Future - Alternative 5	234	276	455	582	710	833	813	704	638	436	318	316
Difference	-3	-4	-4	-6	-3	-2	-2	-2	6	7	4	4
Percent Difference	-1%	-1%	-1%	-1%	0%	0%	0%	0%	1%	2%	1%	1%
<b>Dry</b>												
Future - Base	211	284	442	576	689	772	742	621	516	359	253	240
Future - Alternative 5	216	290	446	580	695	776	747	625	518	361	254	240
Difference	5	6	5	4	5	5	5	5	2	2	1	0
Percent Difference	2%	2%	1%	1%	1%	1%	1%	1%	0%	1%	0%	0%
<b>Critical</b>												
Future - Base	242	329	444	571	654	666	621	536	395	302	263	262
Future - Alternative 5	243	330	445	573	655	666	622	537	395	303	263	263
Difference	1	1	1	1	1	0	0	0	0	1	1	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CVP San Luis Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	442	574	764	972	972	972	972	909	861	675	596	517
20%	367	426	607	826	972	972	958	858	767	563	489	434
30%	272	373	528	720	942	972	913	806	702	492	413	347
40%	209	298	476	659	826	967	889	768	647	455	316	289
50%	160	269	425	581	736	883	869	715	609	394	256	223
60%	118	232	369	521	682	833	793	636	539	340	226	161
70%	90	173	327	477	630	718	665	571	458	287	190	132
80%	90	122	284	432	554	658	611	480	404	238	140	91
90%	90	90	246	370	439	573	531	393	274	197	110	90
<b>Long Term</b>												
Full Simulation Period	218	294	461	615	743	823	788	682	578	413	314	270
<b>Water Year Types</b>												
Wet	203	294	487	682	836	918	880	792	678	499	390	304
Above Normal	215	289	456	607	754	844	802	668	594	409	303	202
Below Normal	237	280	459	588	713	836	815	706	632	430	313	312
Dry	211	284	442	576	689	772	742	621	516	359	253	240
Critical	242	329	444	571	654	666	621	536	395	302	263	262

Future - Alternative 5

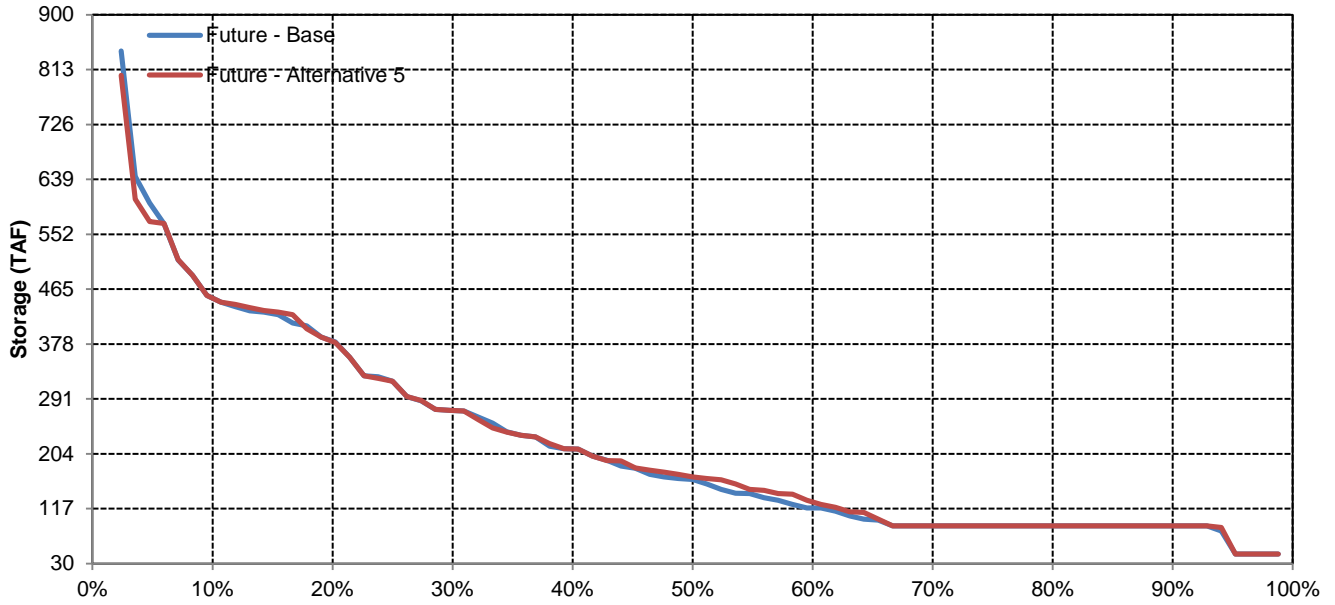
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	443	575	759	972	972	972	972	909	860	675	596	516
20%	366	425	588	827	972	972	958	858	767	563	490	433
30%	272	372	533	720	923	972	913	806	701	492	410	346
40%	209	311	478	657	825	969	887	767	644	454	310	289
50%	166	273	432	581	724	881	866	713	610	394	256	227
60%	125	235	373	520	682	833	797	642	537	340	226	167
70%	90	173	327	477	633	722	678	570	468	288	193	132
80%	90	122	275	436	560	658	609	494	402	250	148	92
90%	90	90	249	370	439	575	526	391	282	197	109	90
<b>Long Term</b>												
Full Simulation Period	218	295	460	615	743	823	788	683	579	414	314	269
<b>Water Year Types</b>												
Wet	199	290	482	679	832	918	879	790	674	497	388	301
Above Normal	225	298	459	610	754	844	801	667	594	409	303	202
Below Normal	234	276	455	582	710	833	813	704	638	436	318	316
Dry	216	290	446	580	695	776	747	625	518	361	254	240
Critical	243	330	445	573	655	666	622	537	395	303	263	263

Future - Alternative 5 Minus Future - Base

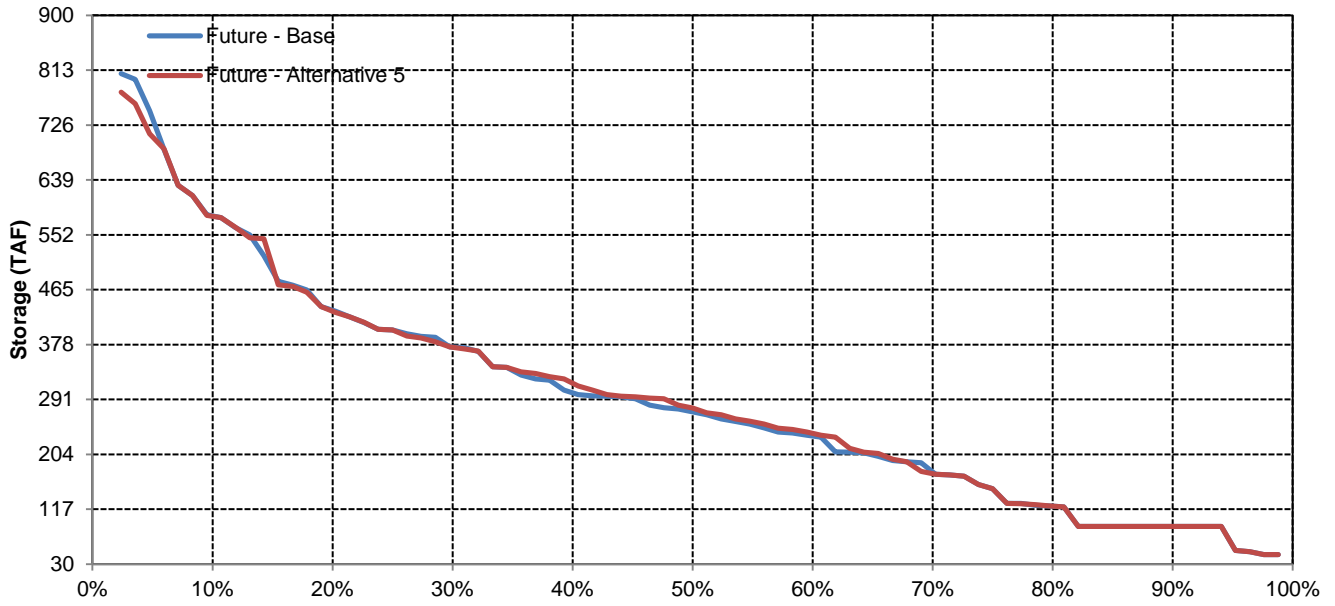
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	0	-5	0	0	0	0	0	0	0	0	0
20%	0	-1	-19	1	0	0	0	0	0	0	0	-2
30%	0	-2	4	0	-18	0	0	0	0	0	-3	-2
40%	0	13	1	-2	0	1	-2	0	-3	-1	-6	0
50%	6	5	7	0	-12	-2	-3	-2	2	0	0	4
60%	7	3	5	-1	-1	0	4	6	-2	1	0	5
70%	0	0	0	0	4	5	13	0	10	1	4	0
80%	0	0	-9	3	6	0	-2	14	-1	13	8	1
90%	0	0	3	0	0	3	-5	-3	8	0	0	0
<b>Long Term</b>												
Full Simulation Period	1	1	-1	0	0	1	0	0	0	1	0	0
<b>Water Year Types</b>												
Wet	-4	-5	-5	-3	-3	0	-2	-1	-4	-2	-2	-3
Above Normal	10	9	3	3	-1	0	0	0	0	0	0	0
Below Normal	-3	-4	-4	-6	-3	-2	-2	-2	6	7	4	4
Dry	5	6	5	4	5	5	5	5	2	2	1	0
Critical	1	1	1	1	1	0	0	0	0	1	1	1

# CVP San Luis Reservoir

## October



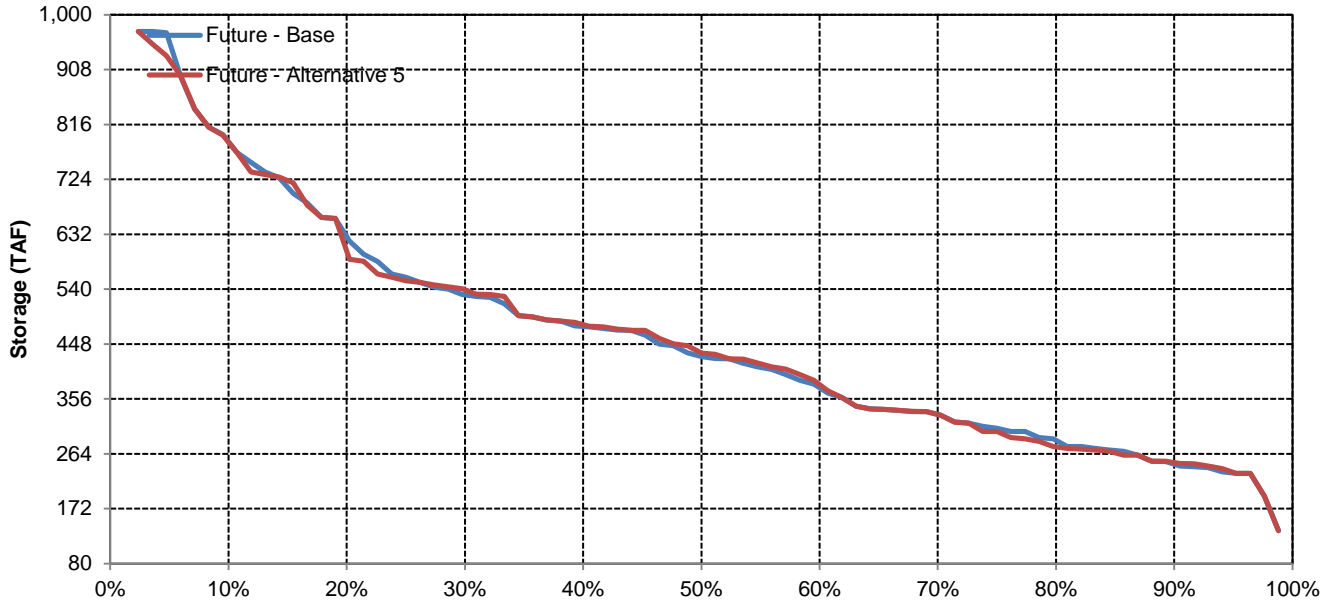
## November



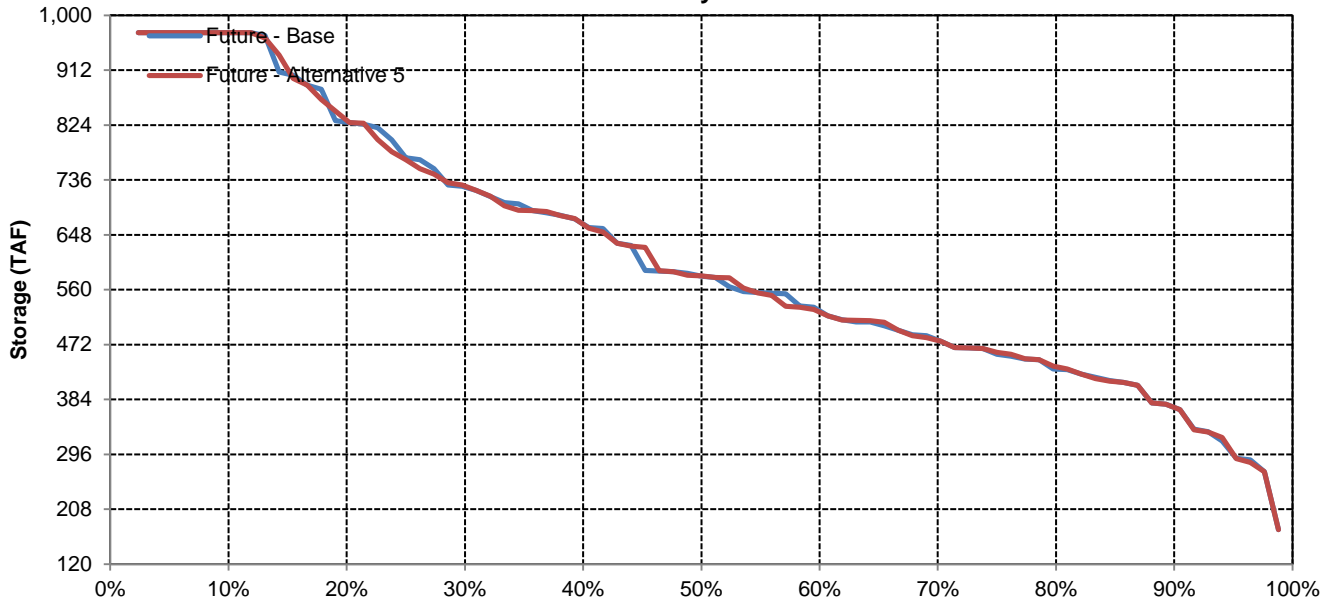


# CVP San Luis Reservoir

## December

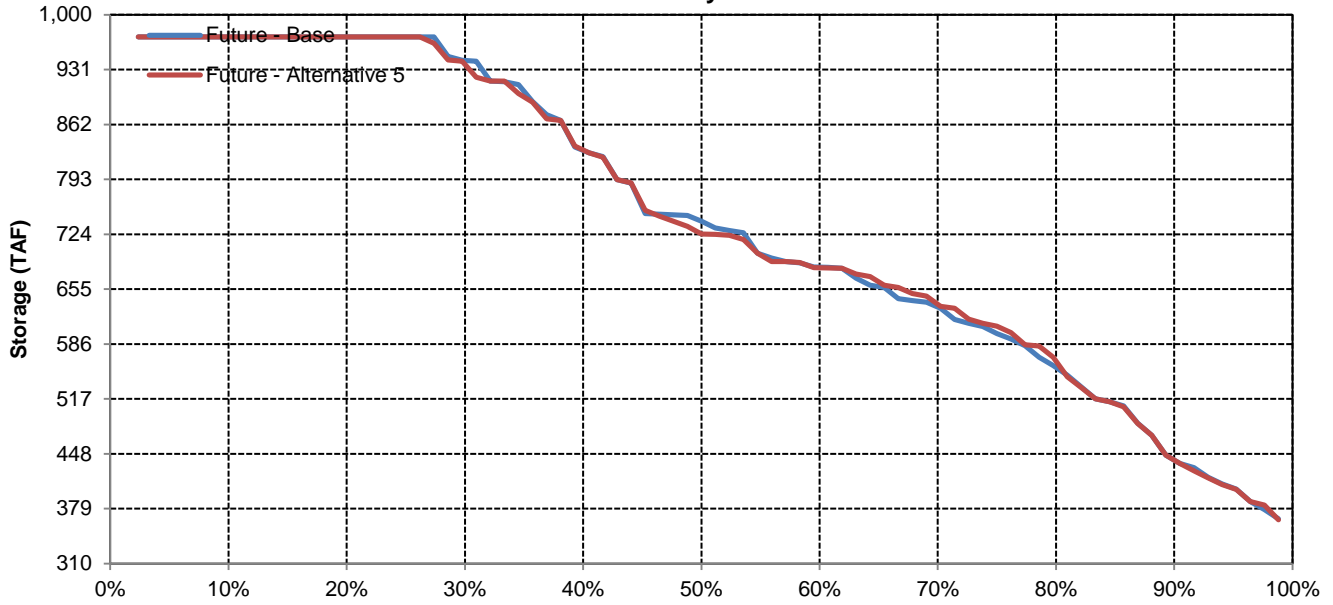


## January

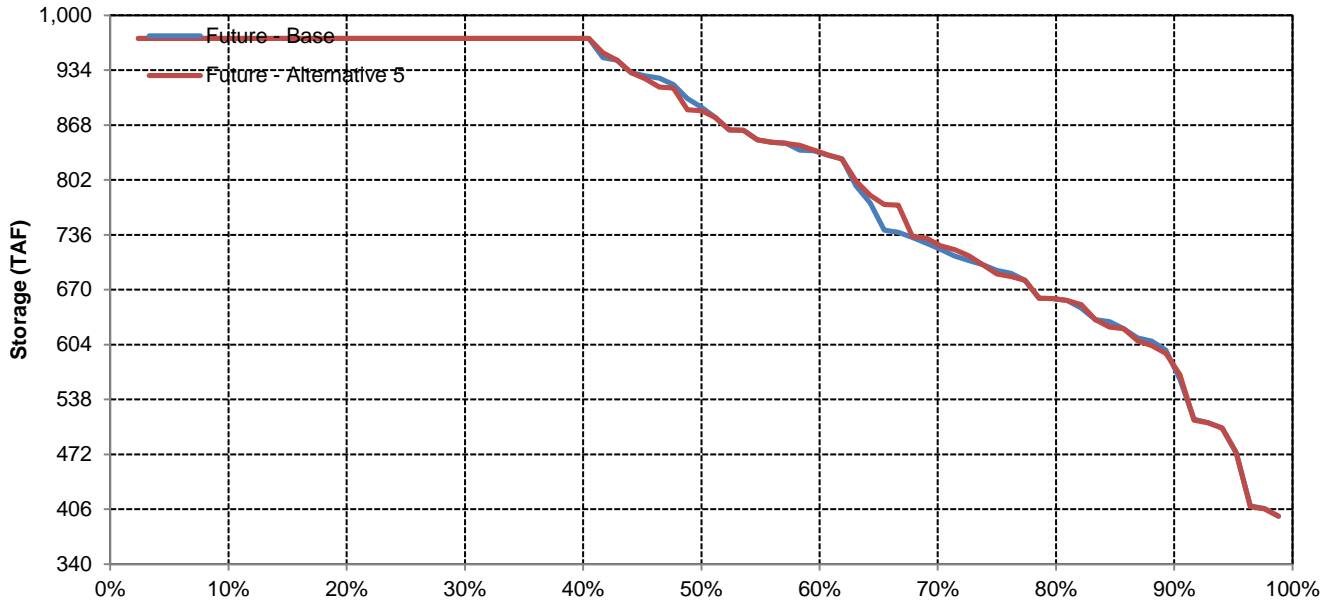


# CVP San Luis Reservoir

## February

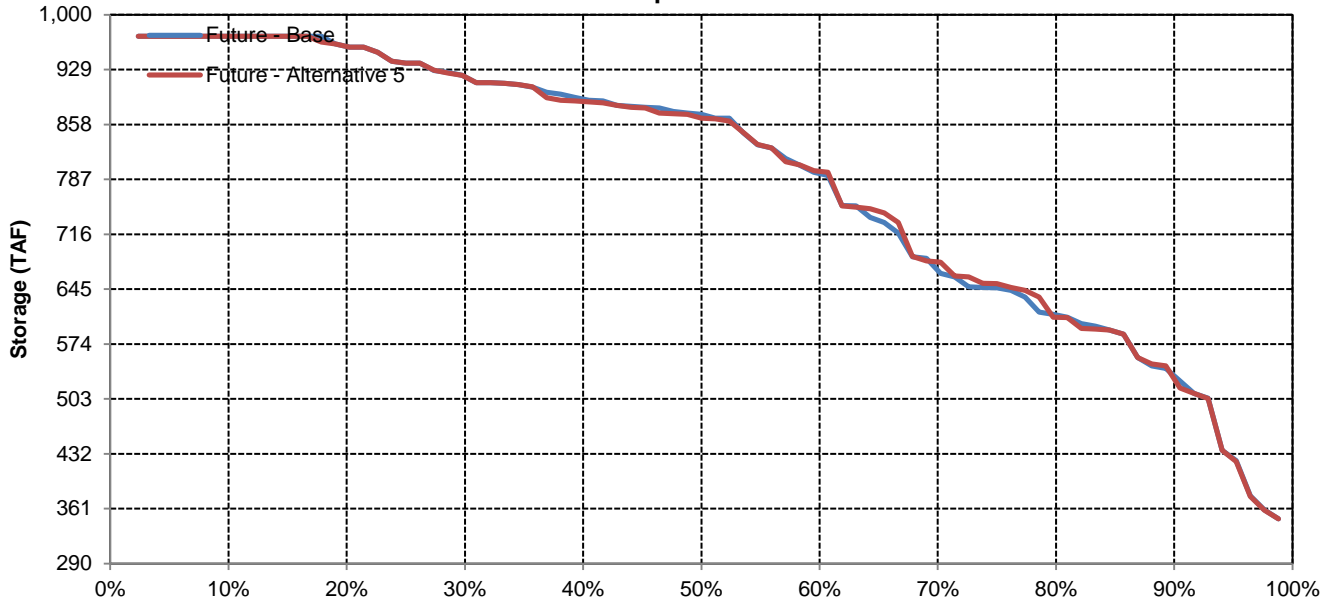


## March

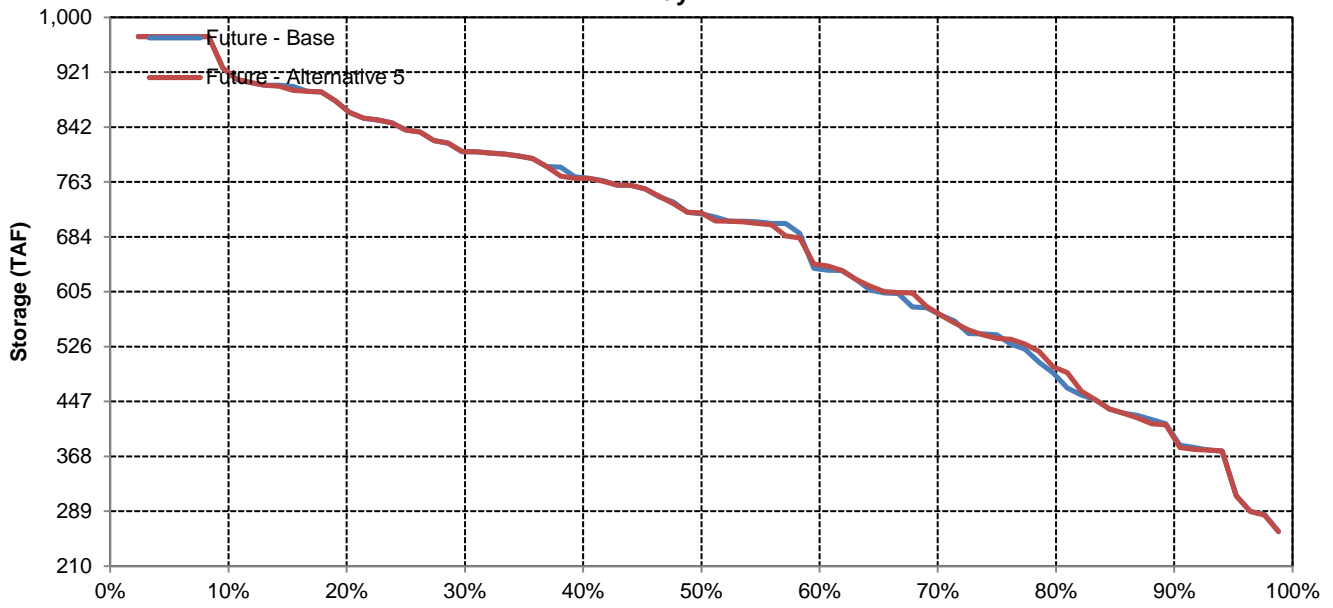


# CVP San Luis Reservoir

## April

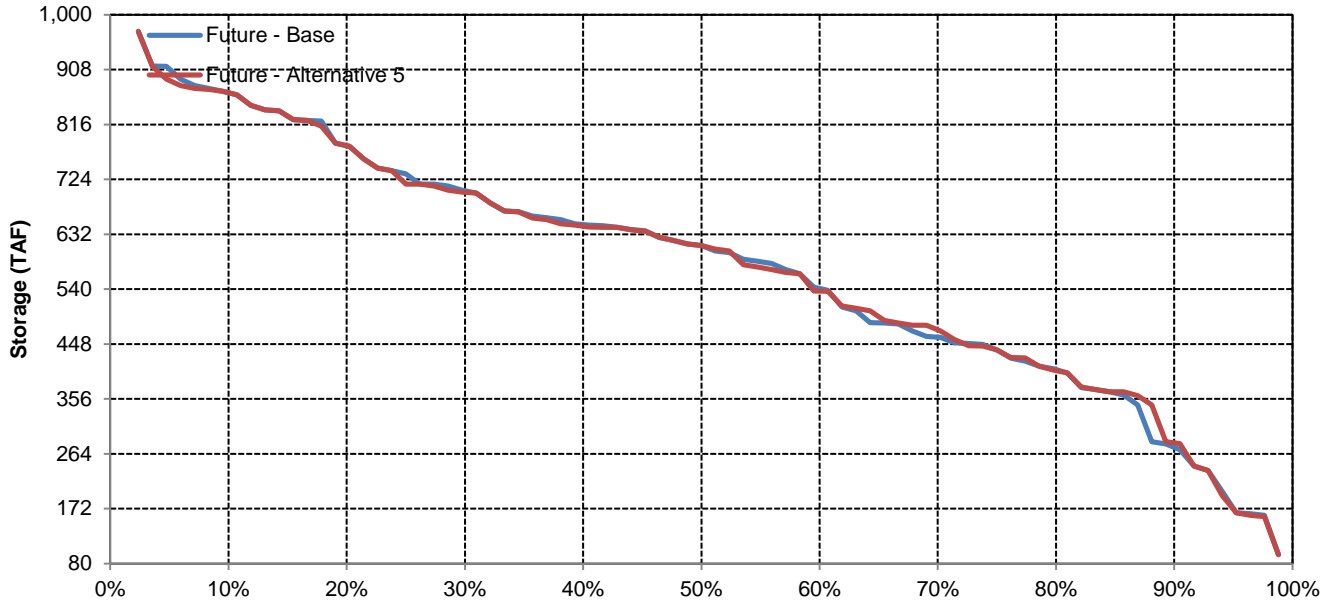


## May

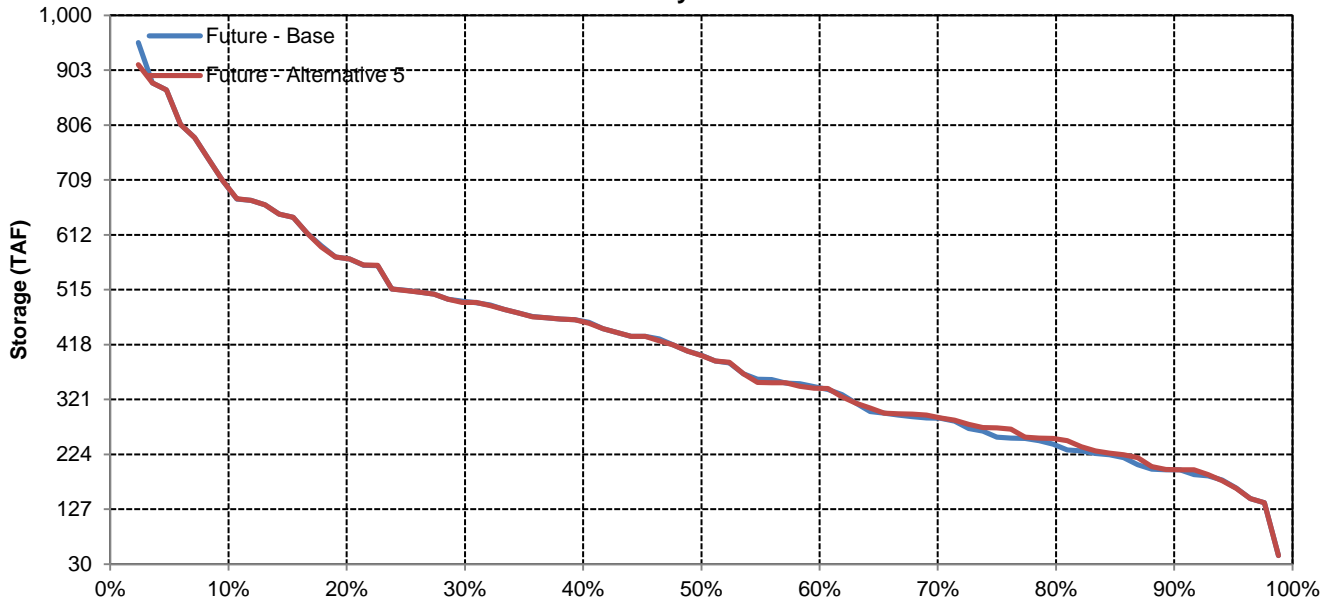


# CVP San Luis Reservoir

## June

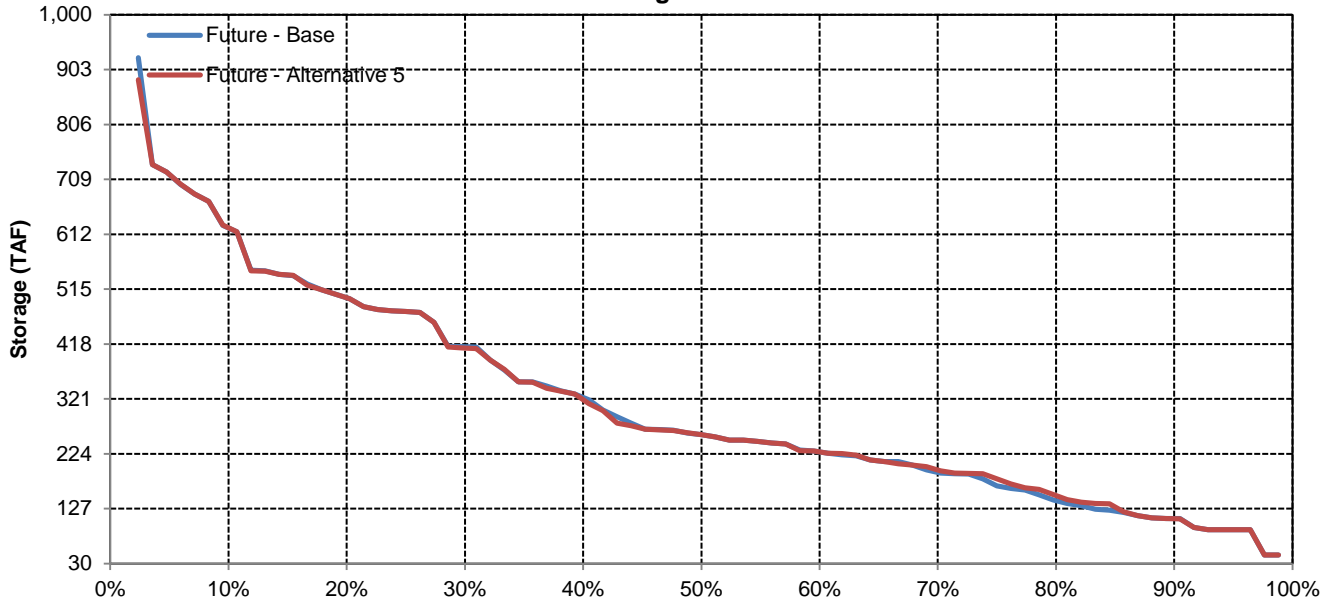


## July

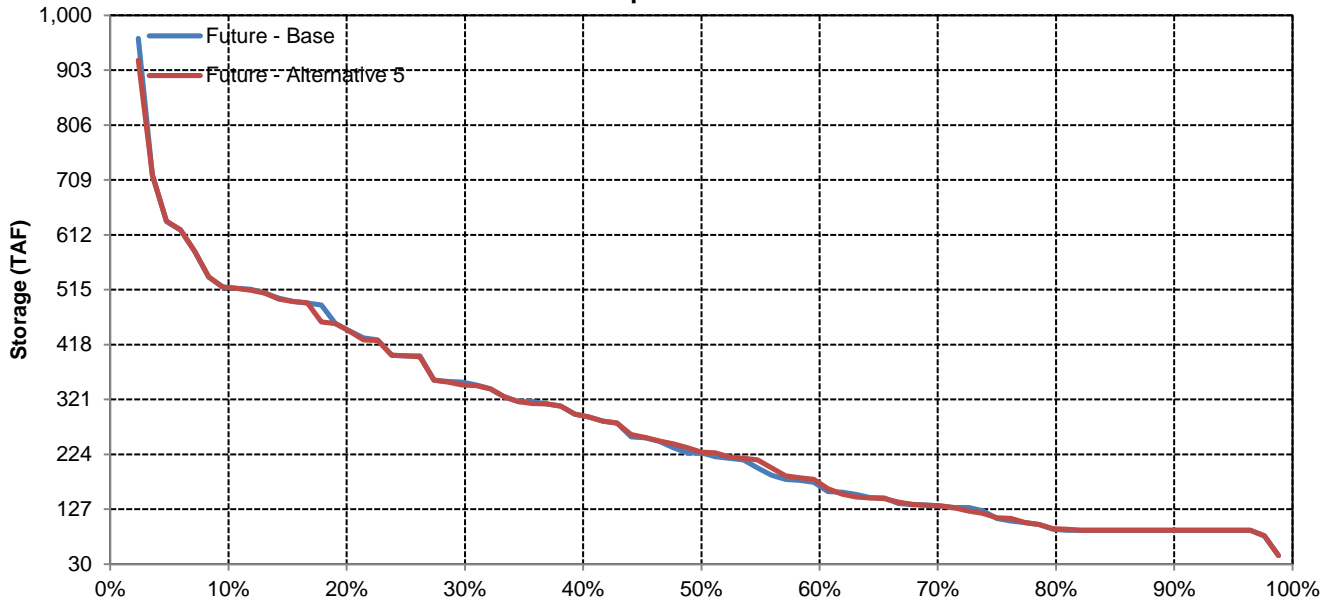


# CVP San Luis Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	181	218	351	573	767	885	811	640	506	467	355	257
Future - Alternative 5	180	217	348	569	762	881	808	637	504	465	354	256
Difference	-1	-1	-3	-4	-5	-4	-3	-3	-2	-2	-1	-1
Percent Difference	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	203	282	505	823	1,011	1,058	951	746	542	550	458	320
Future - Alternative 5	202	282	503	819	1,009	1,058	950	746	545	551	458	319
Difference	0	0	-1	-4	-2	0	-1	-1	2	1	0	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	154	177	288	602	890	1,035	904	639	536	533	415	285
Future - Alternative 5	151	174	278	593	886	1,032	902	637	534	532	413	284
Difference	-3	-3	-11	-9	-4	-2	-2	-2	-2	-2	-2	-1
Percent Difference	-2%	-2%	-4%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	158	169	276	398	650	887	815	629	522	492	321	226
Future - Alternative 5	157	167	272	392	642	883	811	622	512	482	319	225
Difference	-1	-2	-4	-6	-8	-4	-4	-7	-10	-10	-2	-1
Percent Difference	-1%	-1%	-1%	-1%	-1%	0%	-1%	-1%	-2%	-2%	-1%	0%
<b>Dry</b>												
Future - Base	169	206	304	453	620	767	724	597	504	425	286	210
Future - Alternative 5	167	204	302	448	613	759	717	593	504	423	285	208
Difference	-2	-2	-2	-4	-7	-8	-6	-5	-1	-2	-1	-1
Percent Difference	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	-1%
<b>Critical</b>												
Future - Base	203	190	237	399	497	565	563	496	384	272	225	207
Future - Alternative 5	204	190	238	399	494	561	559	493	377	270	225	208
Difference	0	1	1	0	-3	-4	-4	-3	-6	-2	0	1
Percent Difference	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-2%	-1%	0%	0%

SWP San Luis Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	315	489	775	1,067	1,067	1,067	1,021	828	699	642	503	311
20%	247	327	590	954	1,067	1,067	959	755	649	601	410	291
30%	211	266	394	761	1,067	1,067	945	701	621	551	383	268
40%	165	235	339	664	984	1,067	921	680	601	539	371	243
50%	145	178	282	538	818	1,067	897	643	567	505	355	237
60%	128	94	223	455	664	944	869	621	492	462	333	225
70%	114	55	183	369	597	745	733	586	381	341	315	210
80%	90	55	116	243	482	636	621	505	332	279	229	196
90%	55	55	59	155	322	485	503	404	248	235	165	156
<b>Long Term</b>												
Full Simulation Period	181	218	351	573	767	885	811	640	506	467	355	257
<b>Water Year Types</b>												
Wet	203	282	505	823	1,011	1,058	951	746	542	550	458	320
Above Normal	154	177	288	602	890	1,035	904	639	536	533	415	285
Below Normal	158	169	276	398	650	887	815	629	522	492	321	226
Dry	169	206	304	453	620	767	724	597	504	425	286	210
Critical	203	190	237	399	497	565	563	496	384	272	225	207

Future - Alternative 5

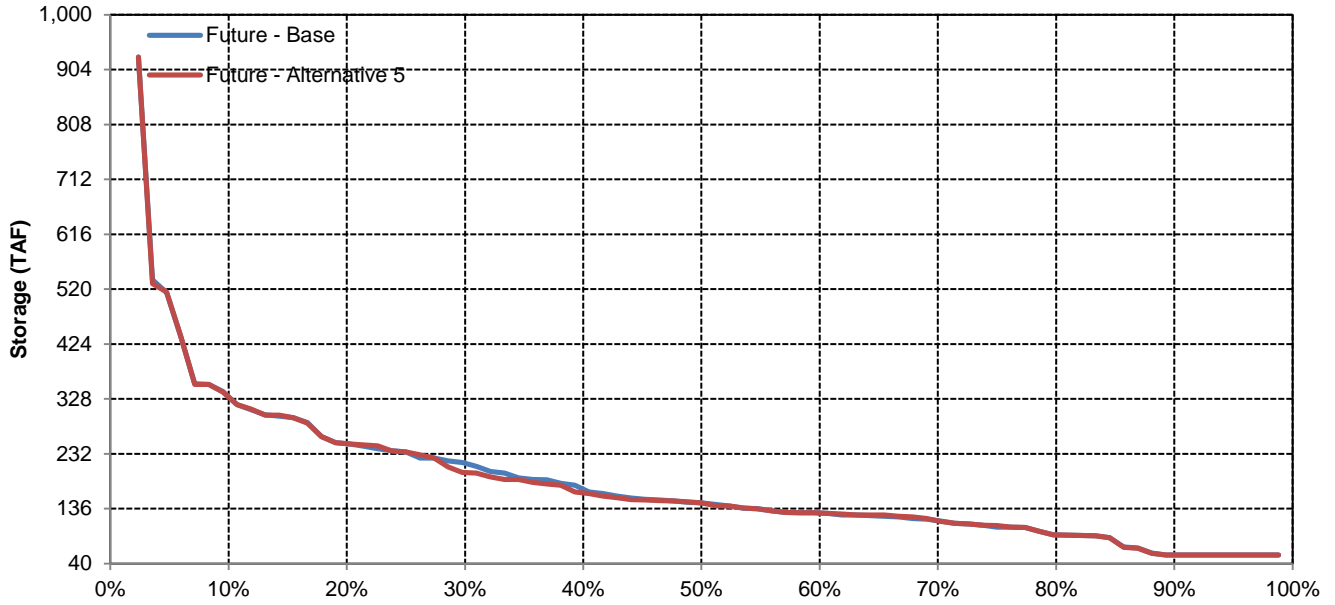
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	316	485	780	1,067	1,067	1,067	1,019	829	699	638	505	311
20%	248	328	587	956	1,067	1,067	957	740	647	601	411	291
30%	198	266	388	743	1,067	1,067	943	700	621	567	383	269
40%	161	236	317	641	985	1,067	914	679	598	539	371	243
50%	144	171	284	523	792	1,067	895	642	547	501	356	236
60%	128	80	212	428	664	946	864	621	485	462	335	225
70%	114	55	170	356	586	742	732	586	381	325	310	207
80%	90	55	117	240	472	625	611	488	324	271	223	188
90%	55	55	59	154	315	486	503	407	248	235	167	153
<b>Long Term</b>												
Full Simulation Period	180	217	348	569	762	881	808	637	504	465	354	256
<b>Water Year Types</b>												
Wet	202	282	503	819	1,009	1,058	950	746	545	551	458	319
Above Normal	151	174	278	593	886	1,032	902	637	534	532	413	284
Below Normal	157	167	272	392	642	883	811	622	512	482	319	225
Dry	167	204	302	448	613	759	717	593	504	423	285	208
Critical	204	190	238	399	494	561	559	493	377	270	225	208

Future - Alternative 5 Minus Future - Base

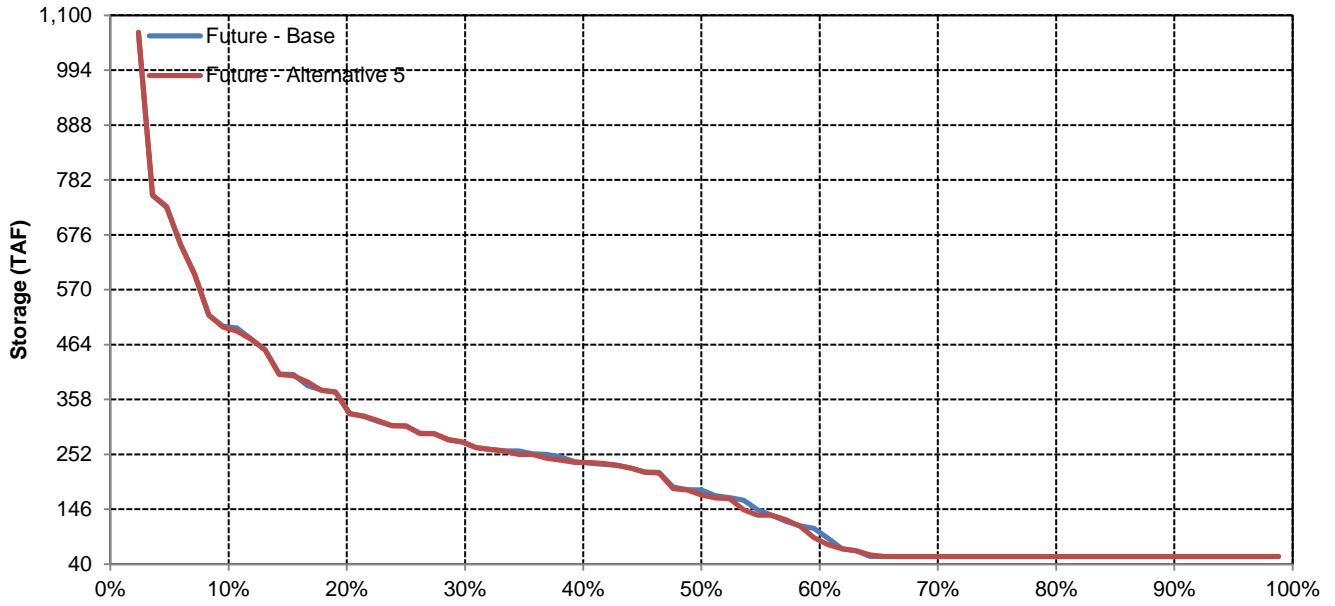
Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	-4	6	0	0	0	-2	0	0	-4	3	0
20%	1	0	-3	2	0	0	-2	-15	-1	-1	1	0
30%	-13	0	-7	-18	0	0	-2	-1	0	16	0	0
40%	-3	1	-22	-23	1	0	-7	-1	-3	0	0	0
50%	-1	-7	2	-14	-26	0	-2	-1	-20	-4	1	-1
60%	0	-14	-11	-27	0	2	-5	0	-7	0	2	0
70%	0	0	-13	-13	-12	-3	-2	-1	0	-16	-5	-3
80%	0	0	2	-3	-10	-11	-10	-17	-7	-8	-7	-8
90%	0	0	0	0	-6	0	0	3	0	0	2	-4
<b>Long Term</b>												
Full Simulation Period	-1	-1	-3	-4	-5	-4	-3	-3	-2	-2	-1	-1
<b>Water Year Types</b>												
Wet	0	0	-1	-4	-2	0	-1	-1	2	1	0	-1
Above Normal	-3	-3	-11	-9	-4	-2	-2	-2	-2	-2	-2	-1
Below Normal	-1	-2	-4	-6	-8	-4	-4	-7	-10	-10	-2	-1
Dry	-2	-2	-2	-4	-7	-8	-6	-5	-1	-2	-1	-1
Critical	0	1	1	0	-3	-4	-4	-3	-6	-2	0	1

# SWP San Luis Reservoir

## October



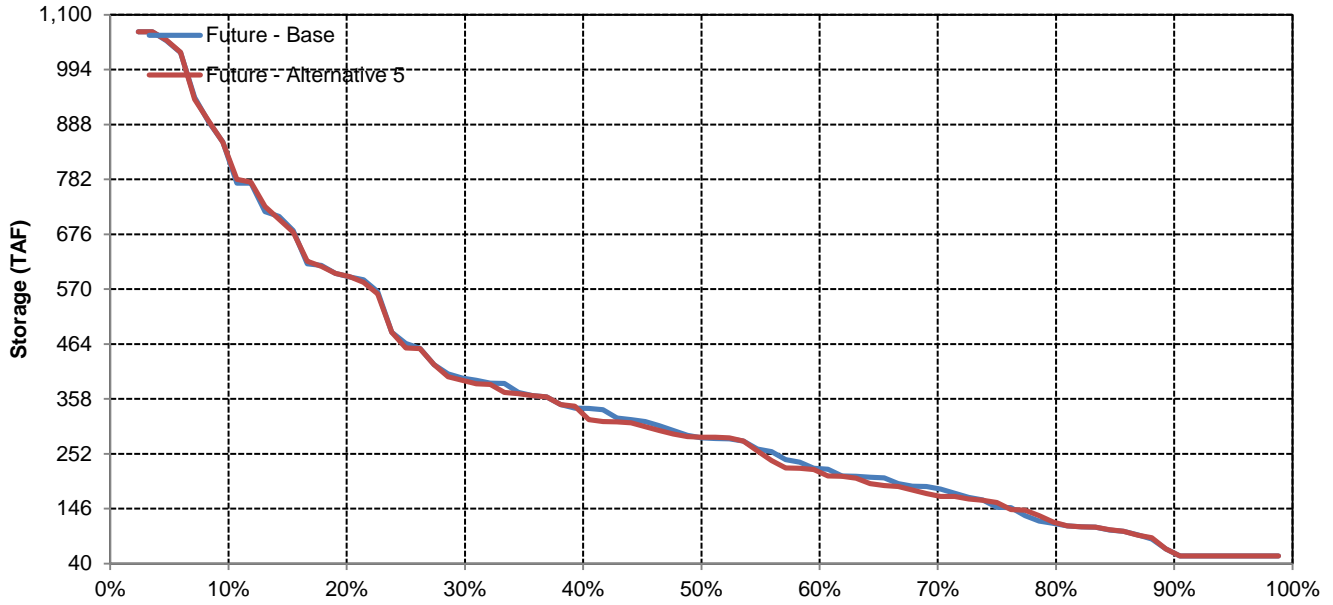
## November



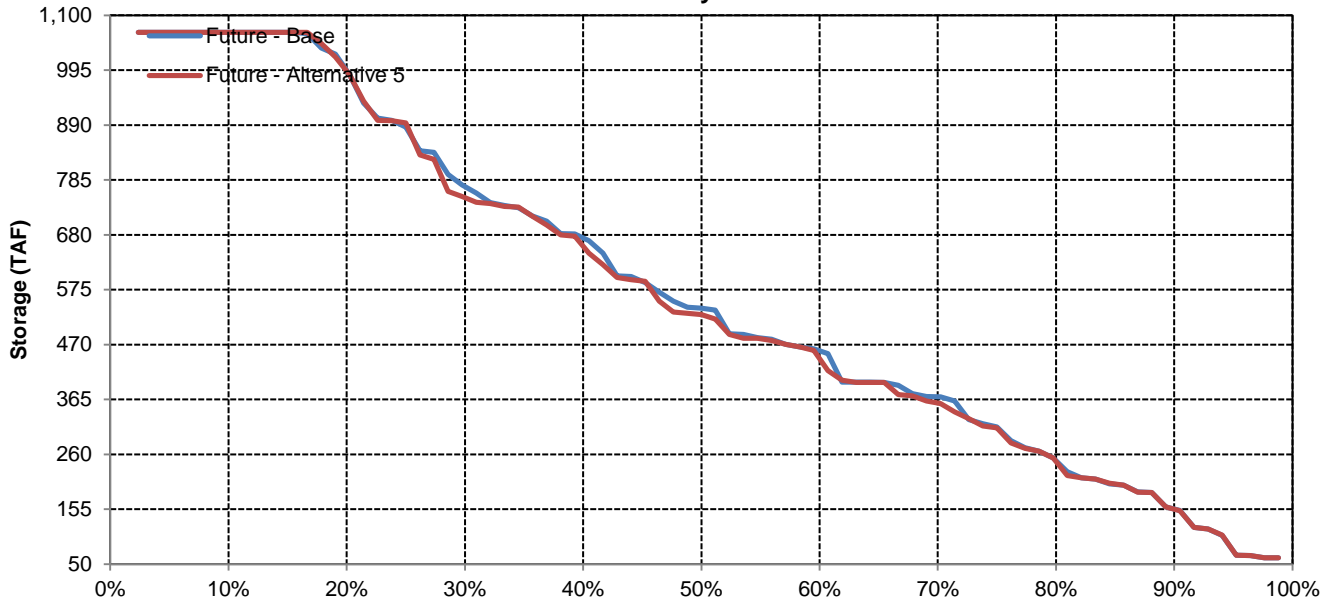


# SWP San Luis Reservoir

## December

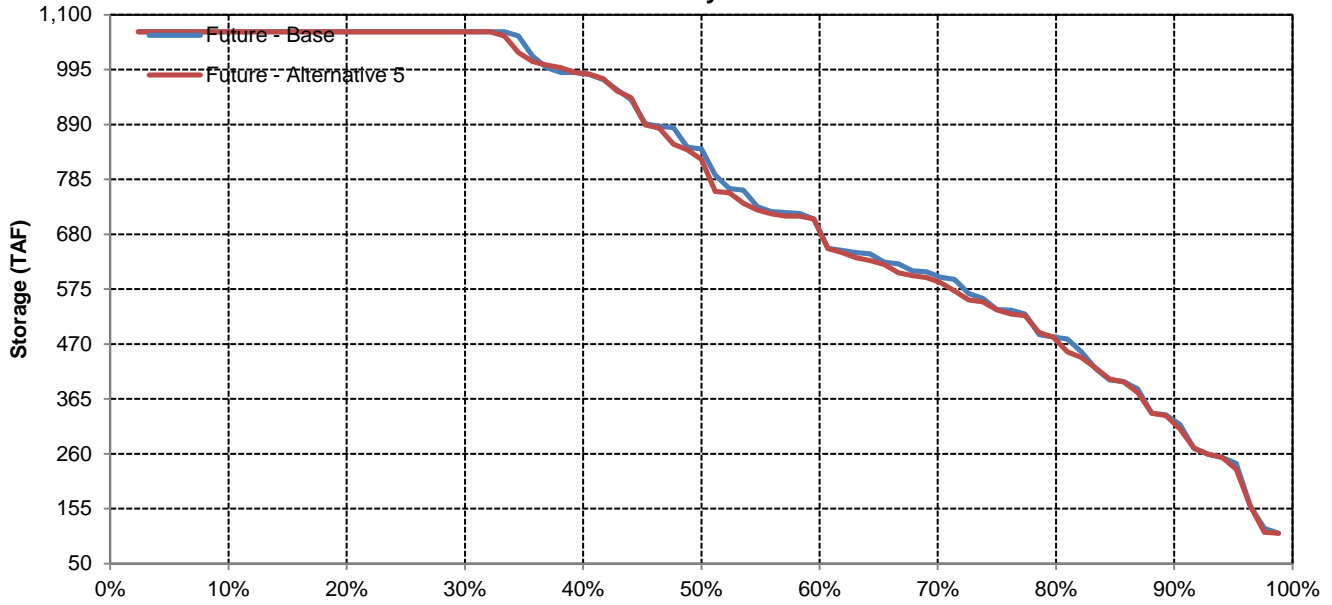


## January

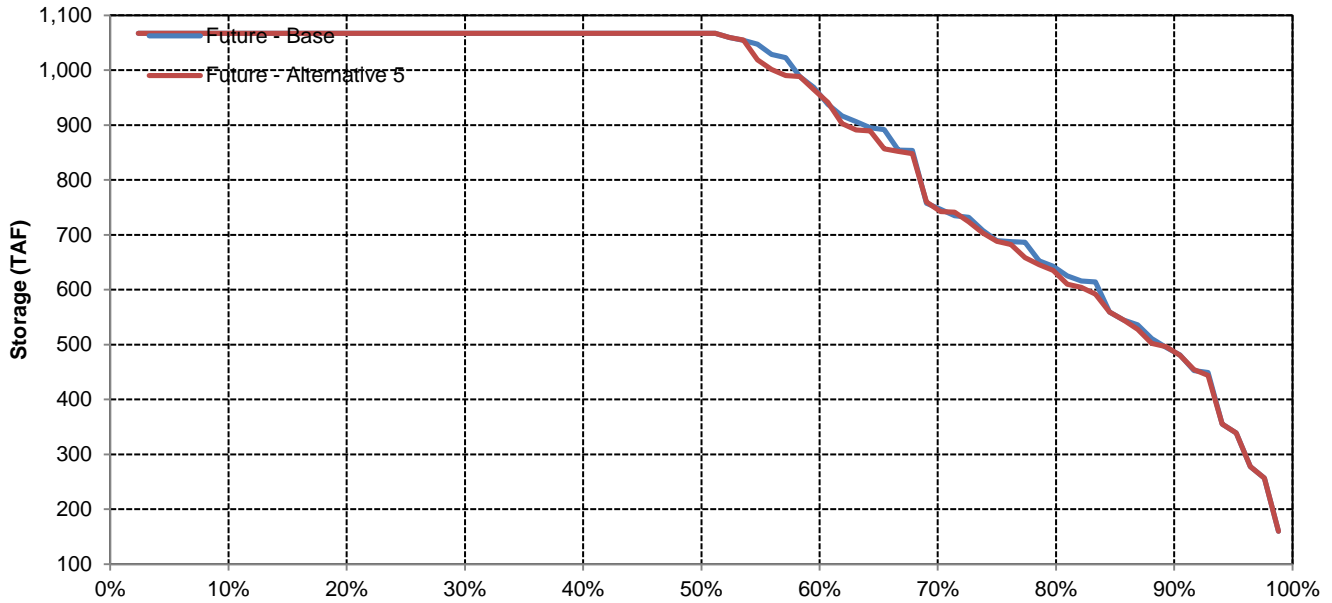


# SWP San Luis Reservoir

## February

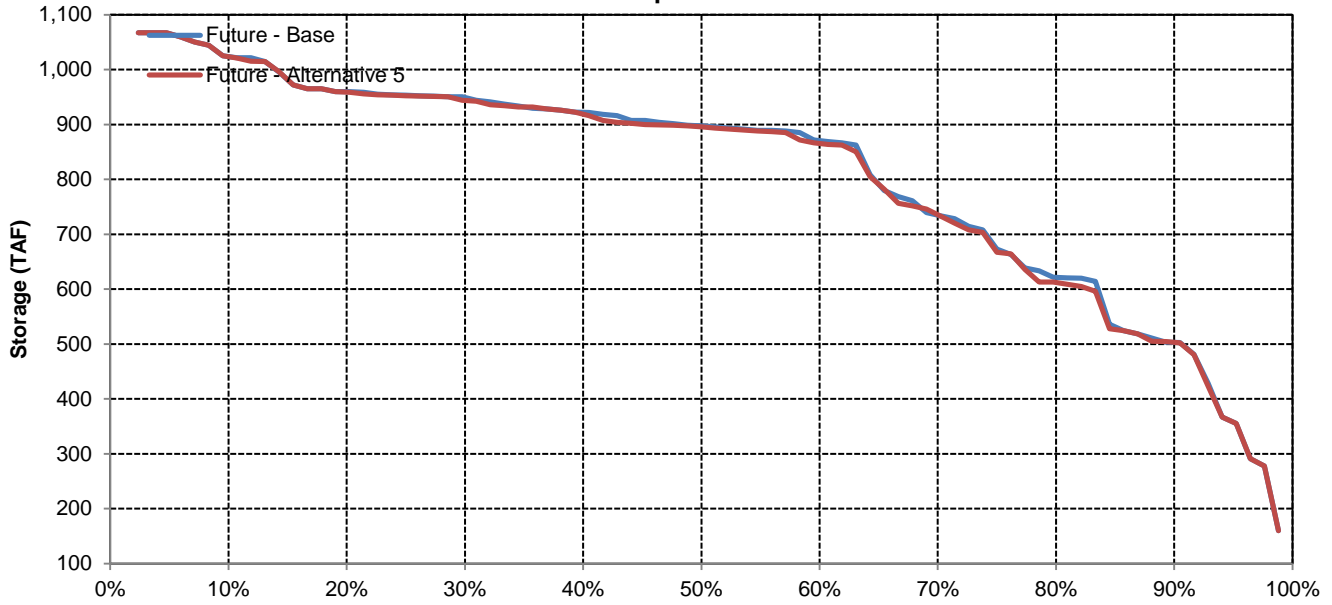


## March

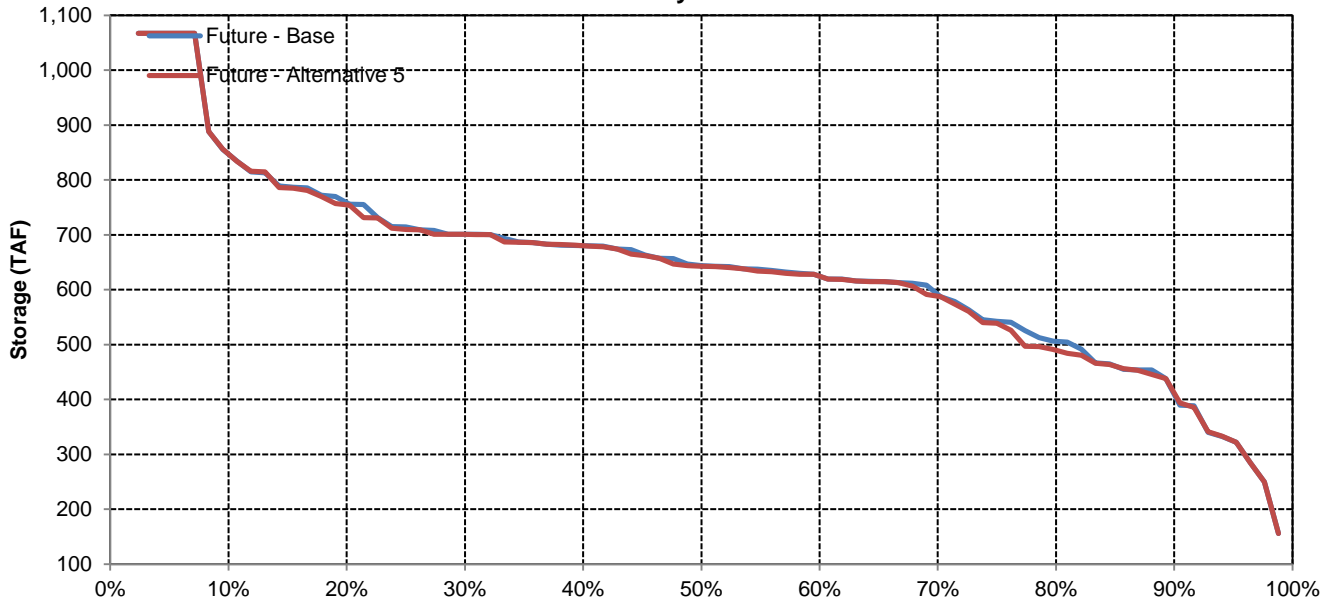


# SWP San Luis Reservoir

## April

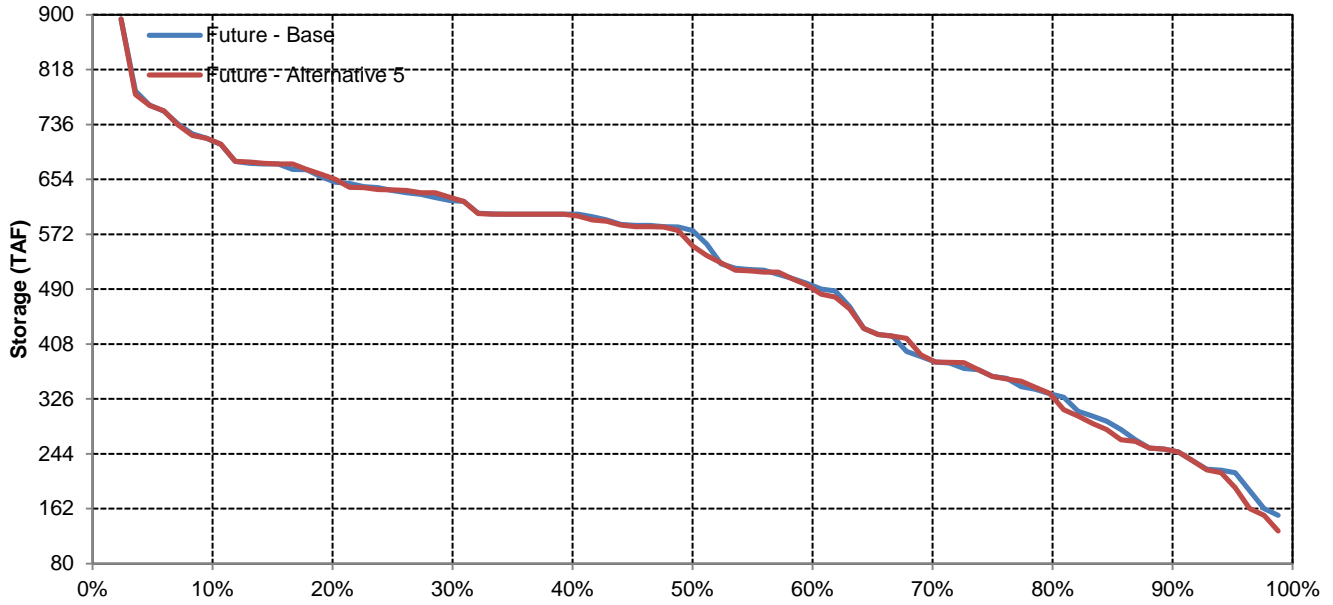


## May

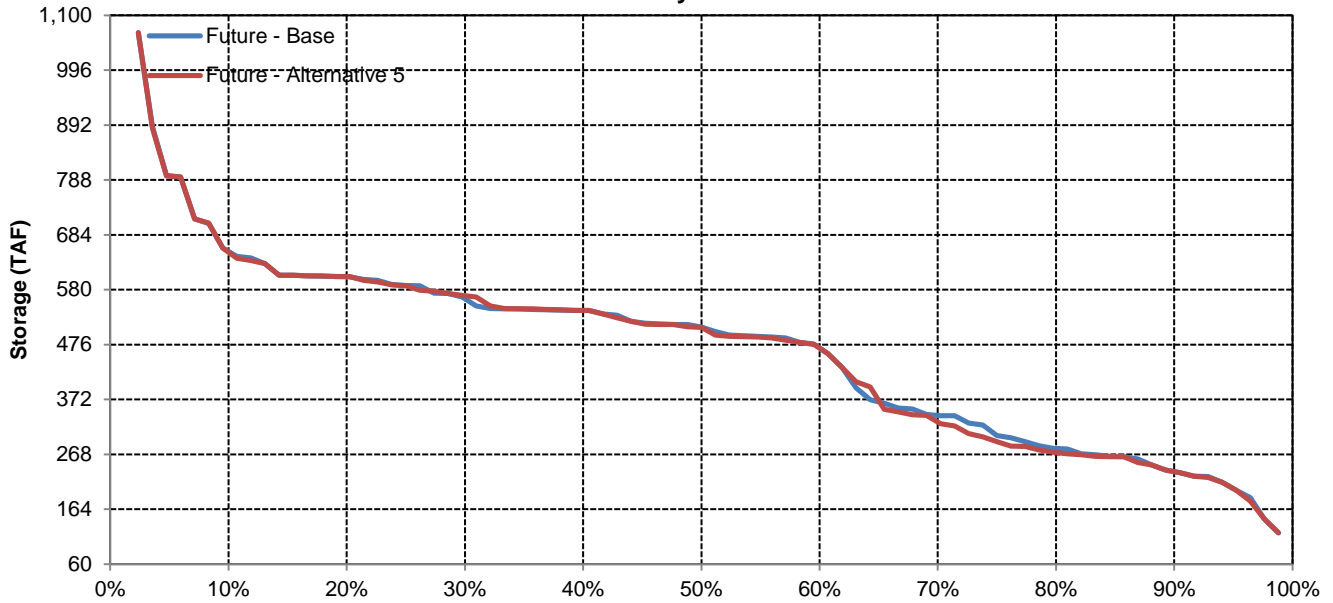


# SWP San Luis Reservoir

## June

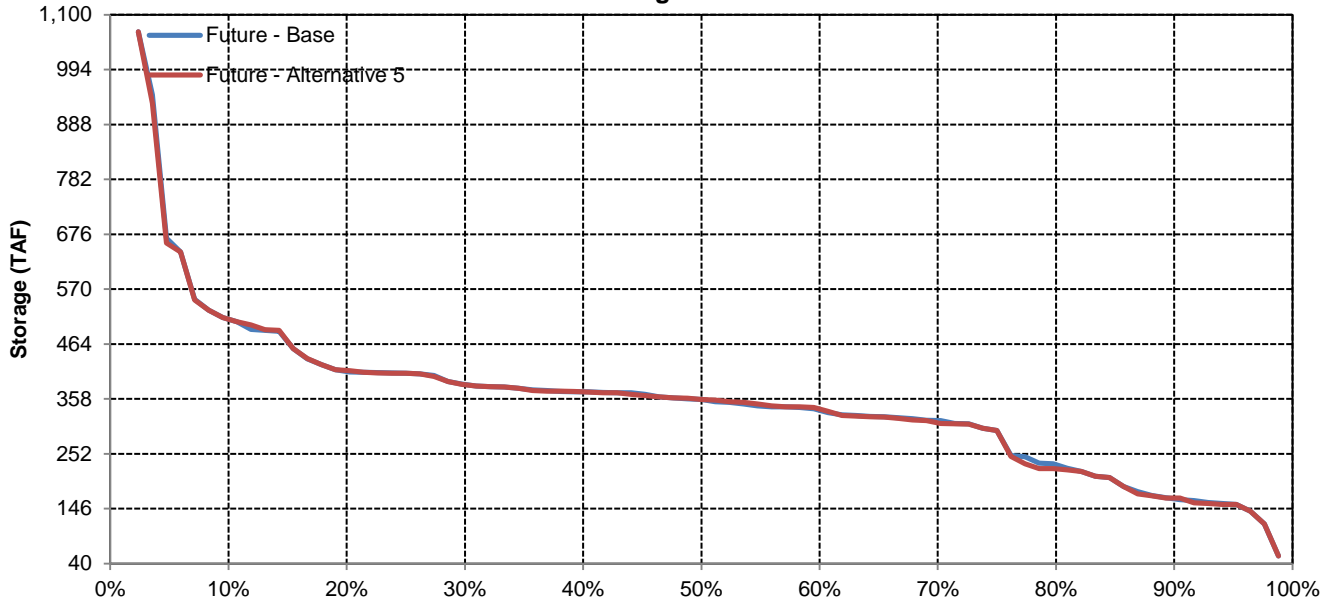


## July

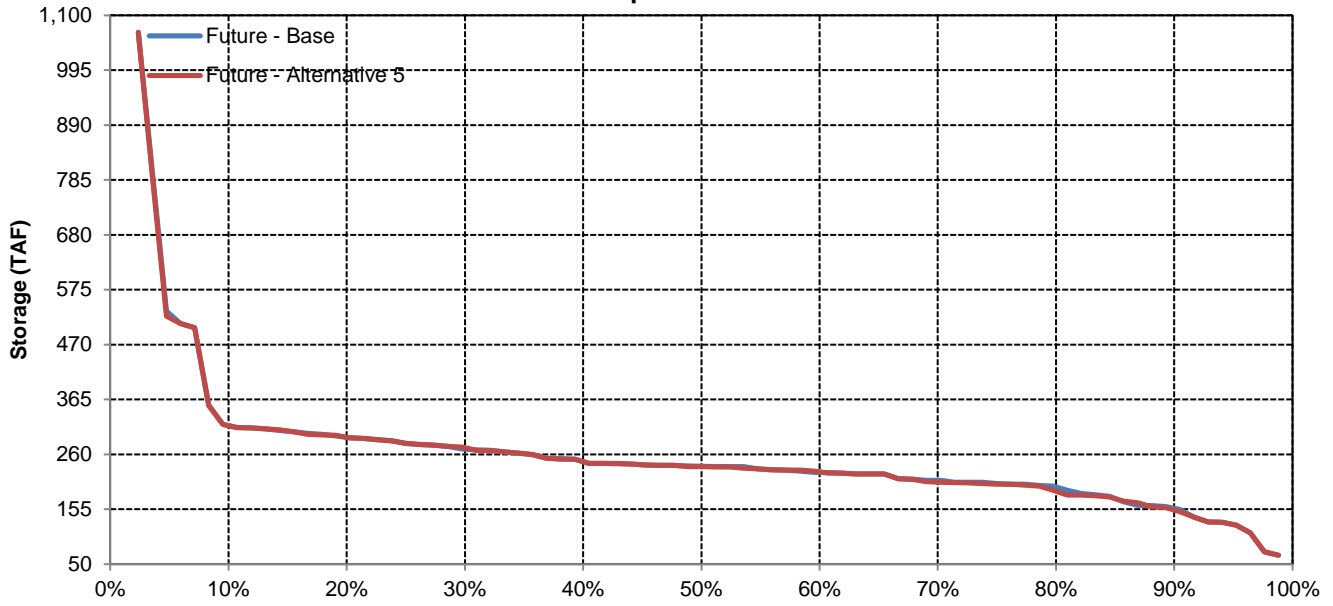


SWP San Luis Reservoir

August



September



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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	8,408	10,099	24,888	54,896	70,049	52,500	29,061	14,179	8,605	7,157	4,274	10,294	17,604
Future - Alternative 5	8,436	10,107	24,924	54,919	70,109	52,489	29,067	14,175	8,600	7,156	4,276	10,293	17,613
Difference	27	8	36	23	60	-11	6	-3	-6	-1	2	0	8
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	9,541	15,088	53,646	115,984	131,904	102,001	53,280	21,075	11,285	9,709	4,000	21,635	32,826
Future - Alternative 5	9,561	15,102	53,703	116,005	131,955	101,948	53,310	21,071	11,286	9,708	4,000	21,635	32,834
Difference	21	14	57	22	51	-53	29	-4	1	0	0	0	8
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	9,036	8,854	16,293	59,685	102,404	57,212	27,004	15,829	8,580	8,899	4,000	13,224	19,718
Future - Alternative 5	9,149	8,853	16,315	59,665	102,565	57,191	27,006	15,829	8,579	8,900	4,000	13,224	19,733
Difference	114	0	22	-20	161	-20	2	0	-1	1	0	0	15
Percent Difference	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	8,461	9,070	13,804	28,415	31,537	29,246	21,994	12,973	7,605	6,655	4,139	3,000	10,623
Future - Alternative 5	8,523	9,100	13,850	28,466	31,524	29,267	21,994	12,959	7,614	6,646	4,141	3,000	10,634
Difference	62	30	46	52	-14	22	0	-14	9	-9	2	0	11
Percent Difference	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	7,611	7,891	10,135	15,901	29,451	24,322	15,139	9,861	7,158	5,000	4,785	3,000	8,395
Future - Alternative 5	7,580	7,887	10,166	15,938	29,516	24,347	15,132	9,860	7,160	5,000	4,783	3,000	8,402
Difference	-30	-4	31	37	65	25	-7	0	2	0	-2	0	7
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	6,653	5,227	7,054	11,831	15,756	13,084	9,330	6,228	6,318	4,170	4,415	3,092	5,600
Future - Alternative 5	6,674	5,227	7,055	11,843	15,816	13,079	9,319	6,228	6,265	4,170	4,427	3,091	5,602
Difference	21	0	1	12	59	-5	-11	0	-53	0	12	-1	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%

**Delta Outflow**

**Future - Base**

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,938	15,863	79,058	151,208	180,010	107,880	70,644	27,159	11,545	10,516	4,885	21,875
20%	10,625	14,764	33,428	92,252	125,923	89,027	38,581	18,353	10,462	9,612	4,709	21,563
30%	10,313	11,693	17,489	56,706	77,981	62,254	28,814	14,204	8,749	9,048	4,349	20,938
40%	7,625	11,004	14,366	33,893	58,622	40,886	20,594	12,808	8,409	8,000	4,217	13,062
50%	7,160	8,104	11,802	26,142	43,165	27,471	17,579	11,253	7,899	6,666	4,000	3,000
60%	6,994	4,500	8,257	19,228	24,986	20,728	15,558	10,174	7,418	6,500	4,000	3,000
70%	6,613	4,500	5,323	14,908	20,687	17,661	13,640	9,584	7,100	5,000	4,000	3,000
80%	6,259	4,500	4,500	13,125	16,723	14,481	11,153	8,460	7,100	5,000	4,000	3,000
90%	5,678	3,500	4,500	8,401	12,239	11,400	10,016	7,100	6,799	4,065	4,000	3,000
<b>Long Term</b>												
Full Simulation Period	8,408	10,099	24,888	54,896	70,049	52,500	29,061	14,179	8,605	7,157	4,274	10,294
<b>Water Year Types</b>												
Wet	9,541	15,088	53,646	115,984	131,904	102,001	53,280	21,075	11,285	9,709	4,000	21,635
Above Normal	9,036	8,854	16,293	59,685	102,404	57,212	27,004	15,829	8,580	8,899	4,000	13,224
Below Normal	8,461	9,070	13,804	28,415	31,537	29,246	21,994	12,973	7,605	6,655	4,139	3,000
Dry	7,611	7,891	10,135	15,901	29,451	24,322	15,139	9,861	7,158	5,000	4,785	3,000
Critical	6,653	5,227	7,054	11,831	15,756	13,084	9,330	6,228	6,318	4,170	4,415	3,092

**Future - Alternative 5**

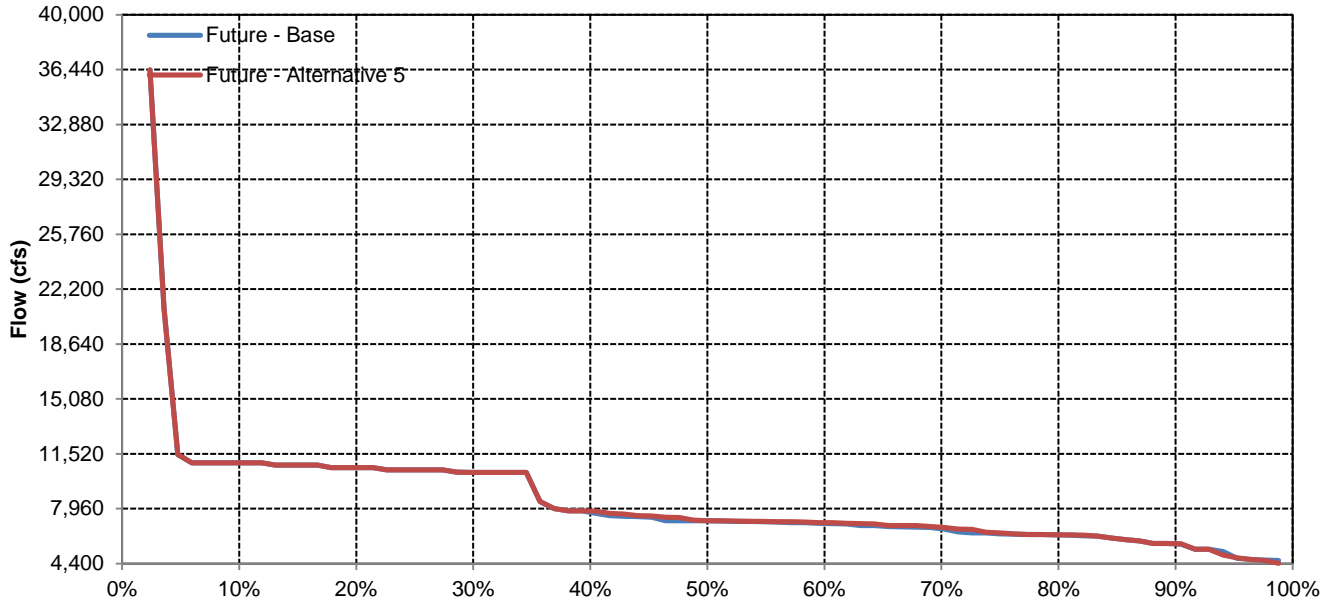
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,938	15,801	79,102	151,358	179,864	107,356	70,645	27,158	11,545	10,516	4,885	21,875
20%	10,625	14,764	33,620	91,692	126,733	88,797	38,581	18,353	10,469	9,613	4,709	21,563
30%	10,313	11,693	17,496	57,132	77,979	62,315	28,814	14,204	8,749	9,047	4,356	20,938
40%	7,772	11,004	14,392	33,909	58,628	40,820	20,594	12,808	8,409	8,000	4,220	13,062
50%	7,180	8,100	11,813	26,166	43,232	27,471	17,697	11,253	7,970	6,647	4,005	3,000
60%	7,056	4,500	8,409	19,272	25,107	20,737	15,558	10,169	7,276	6,500	4,000	3,000
70%	6,738	4,500	5,725	14,951	20,739	17,661	13,640	9,571	7,100	5,000	4,000	3,000
80%	6,266	4,500	4,500	13,126	16,777	14,508	11,114	8,468	7,100	5,000	4,000	3,000
90%	5,692	3,500	4,500	8,402	12,283	11,400	10,026	7,100	6,799	4,065	4,000	3,000
<b>Long Term</b>												
Full Simulation Period	8,436	10,107	24,924	54,919	70,109	52,489	29,067	14,175	8,600	7,156	4,276	10,293
<b>Water Year Types</b>												
Wet	9,561	15,102	53,703	116,005	131,955	101,948	53,310	21,071	11,286	9,708	4,000	21,635
Above Normal	9,149	8,853	16,315	59,665	102,565	57,191	27,006	15,829	8,579	8,900	4,000	13,224
Below Normal	8,523	9,100	13,850	28,466	31,524	29,267	21,994	12,959	7,614	6,646	4,141	3,000
Dry	7,580	7,887	10,166	15,938	29,516	24,347	15,132	9,860	7,160	5,000	4,783	3,000
Critical	6,674	5,227	7,055	11,843	15,816	13,079	9,319	6,228	6,265	4,170	4,427	3,091

**Future - Alternative 5 Minus Future - Base**

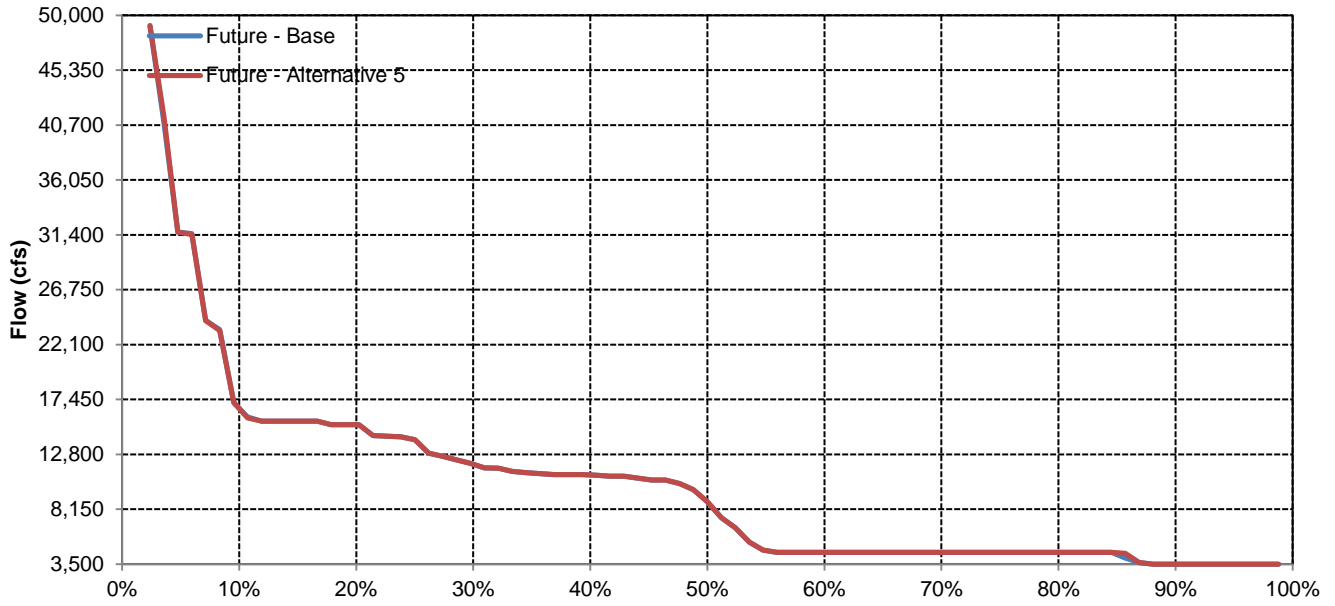
Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	-61	44	151	-147	-524	1	-1	0	0	0	0
20%	0	0	192	-561	810	-230	0	0	7	0	0	0
30%	0	0	8	426	-1	61	0	0	0	0	8	0
40%	147	0	27	15	6	-66	0	0	0	0	3	0
50%	19	-4	10	25	68	0	118	0	71	-19	5	0
60%	61	0	152	44	120	8	0	-6	-142	0	0	0
70%	125	0	402	43	53	0	0	-13	0	0	0	0
80%	7	0	0	0	54	27	-39	9	0	0	0	0
90%	13	0	0	1	44	0	9	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	27	8	36	23	60	-11	6	-3	-6	-1	2	0
<b>Water Year Types</b>												
Wet	21	14	57	22	51	-53	29	-4	1	0	0	0
Above Normal	114	0	22	-20	161	-20	2	0	-1	1	0	0
Below Normal	62	30	46	52	-14	22	0	-14	9	-9	2	0
Dry	-30	-4	31	37	65	25	-7	0	2	0	-2	0
Critical	21	0	1	12	59	-5	-11	0	-53	0	12	-1

# Delta Outflow

## October



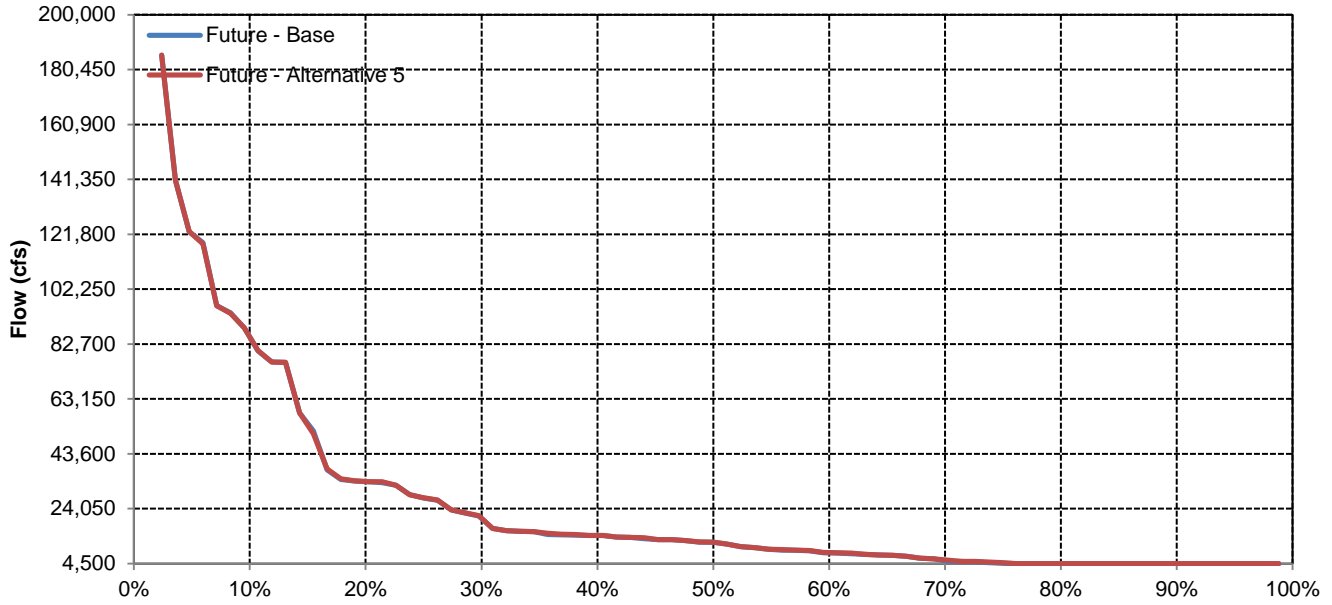
## November



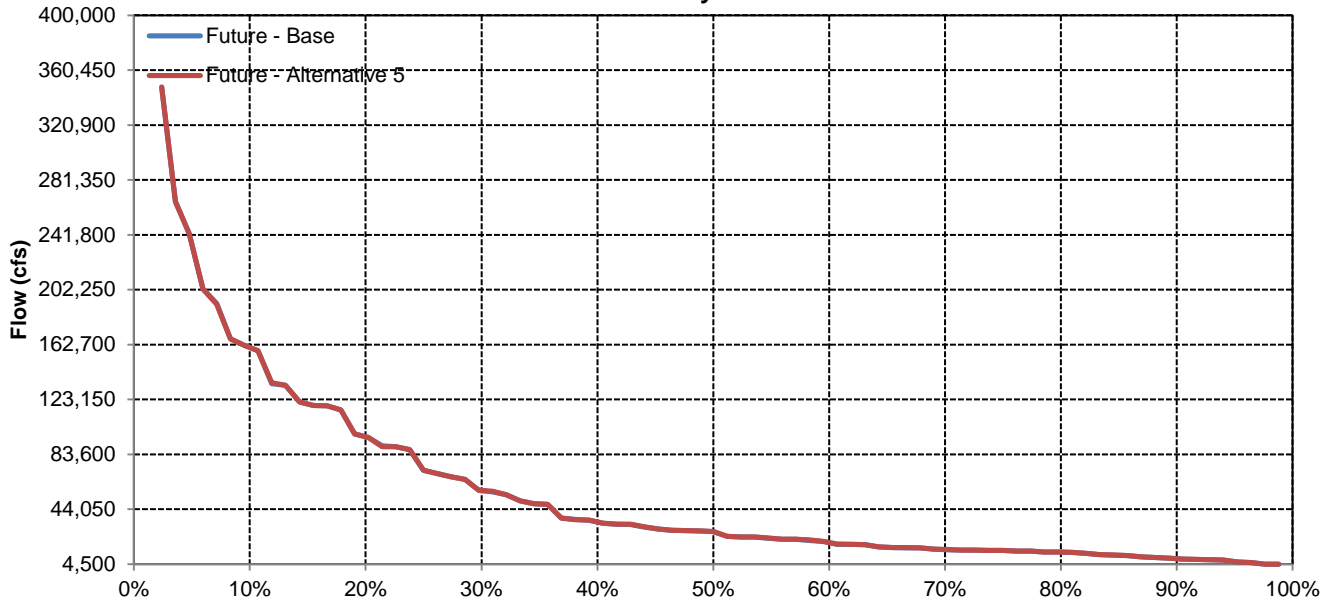


# Delta Outflow

## December

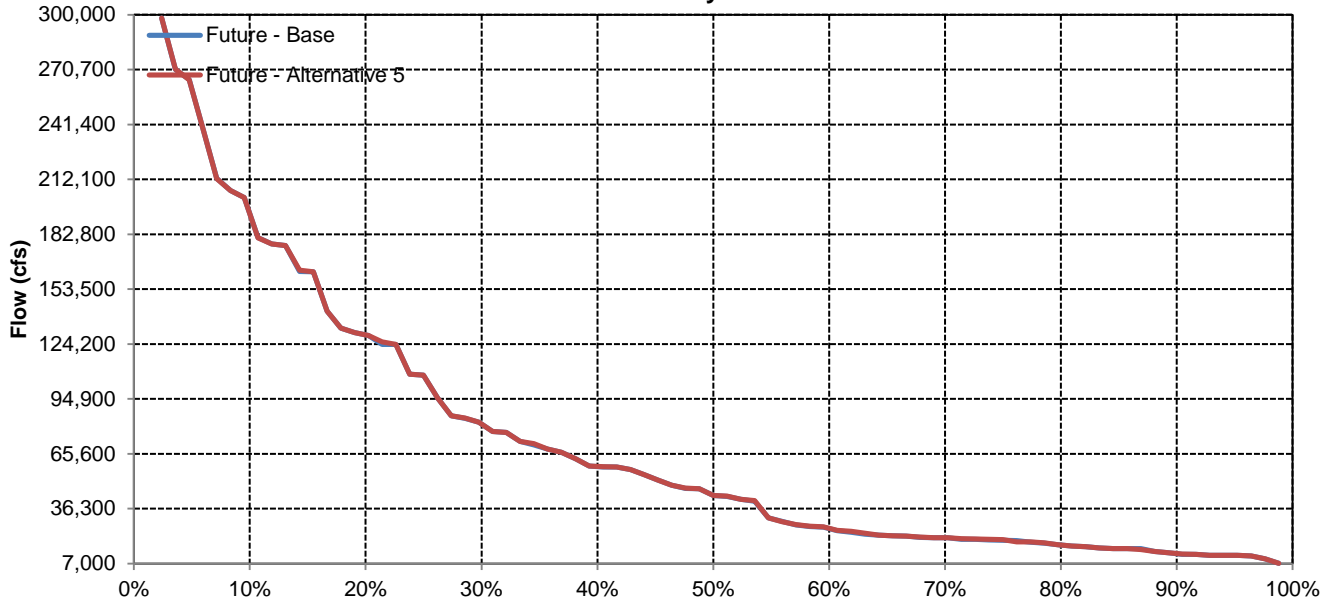


## January

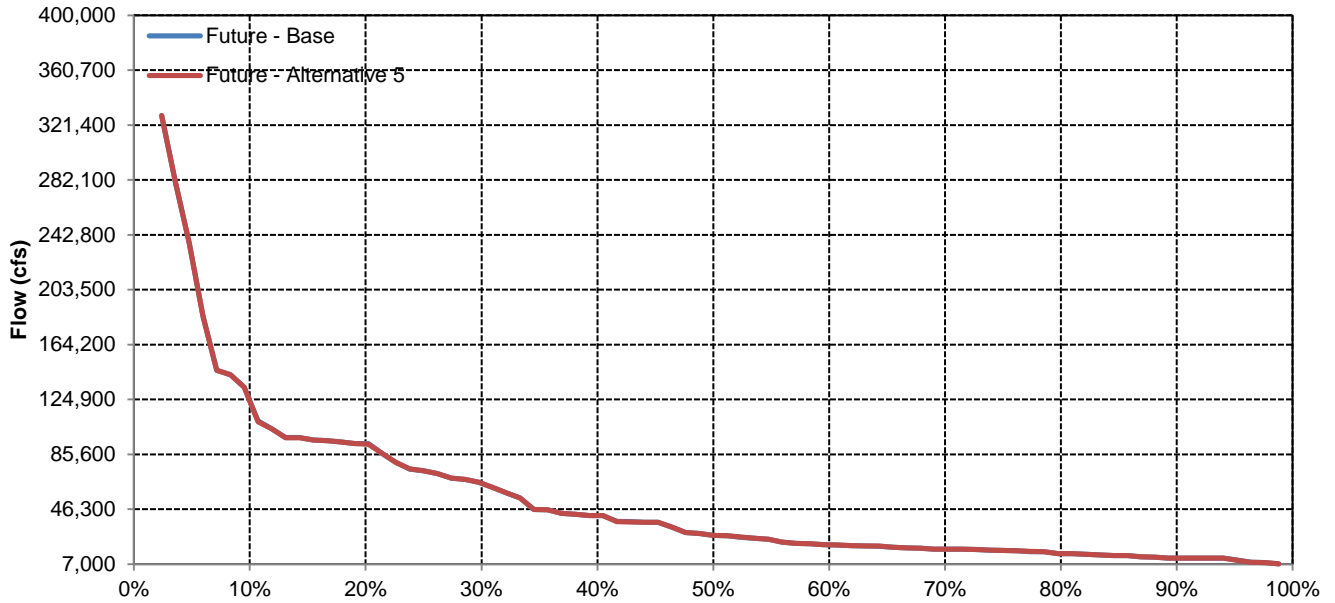


# Delta Outflow

## February

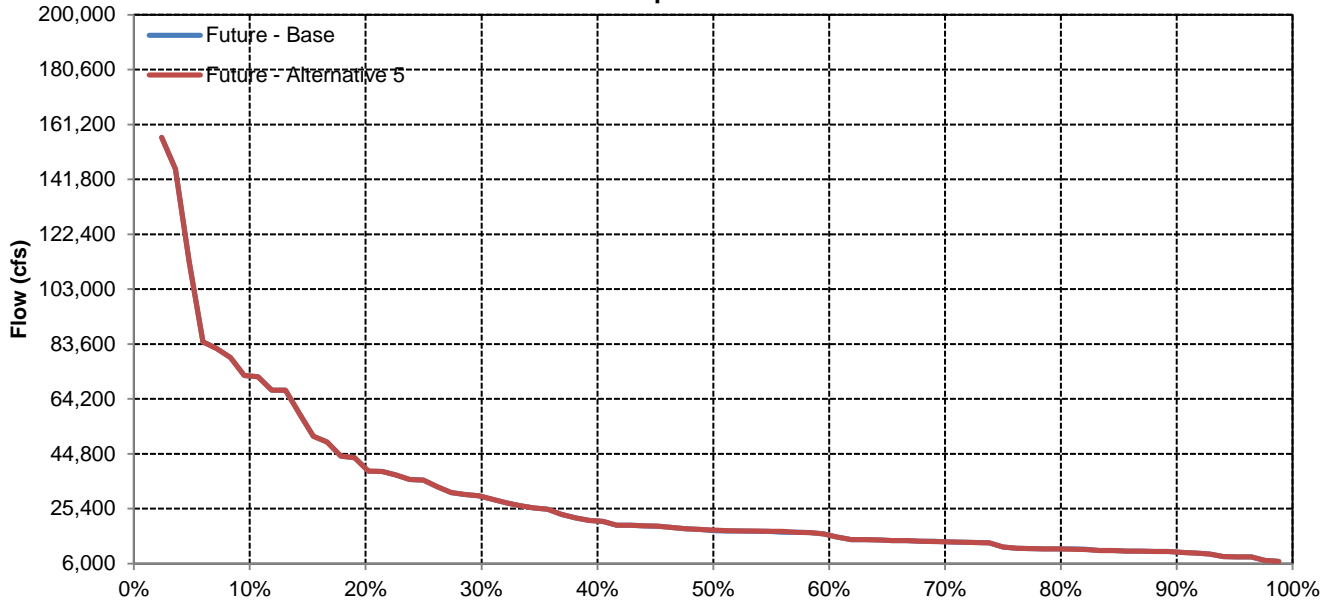


## March

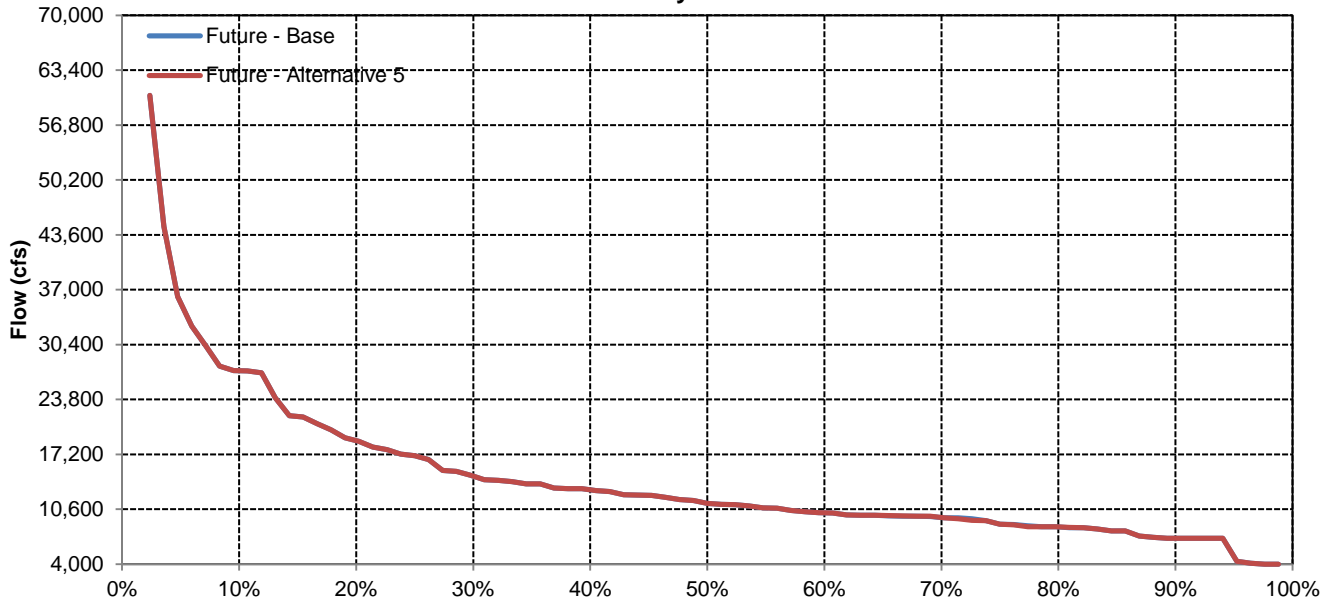


# Delta Outflow

## April

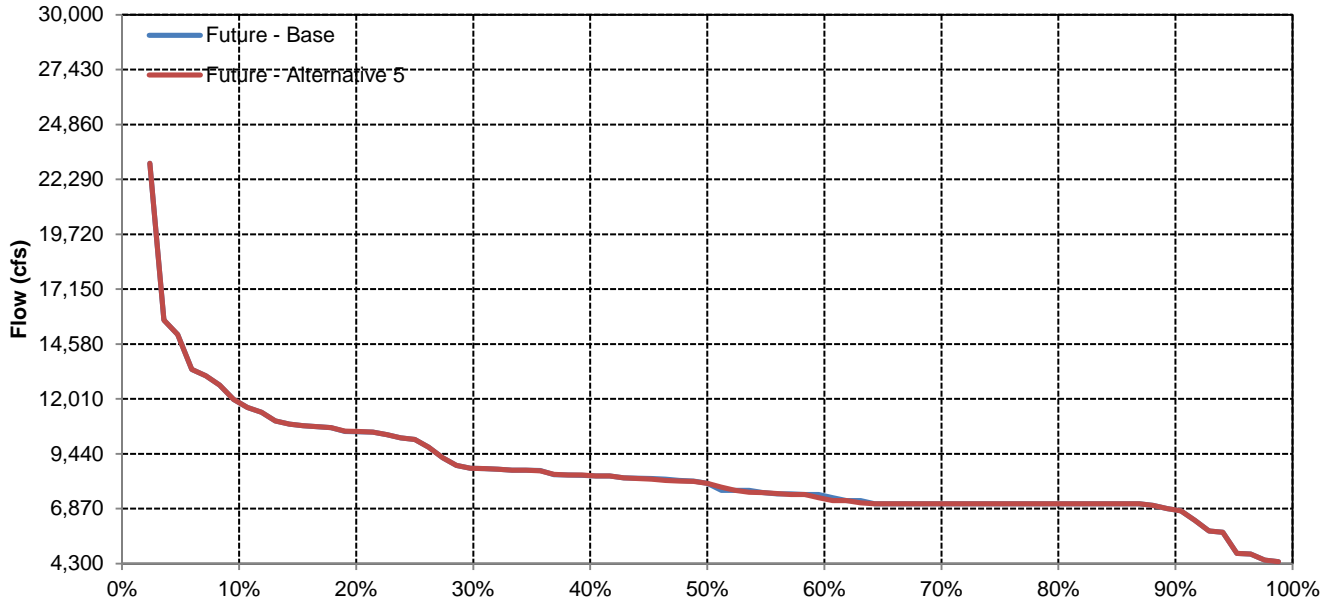


## May

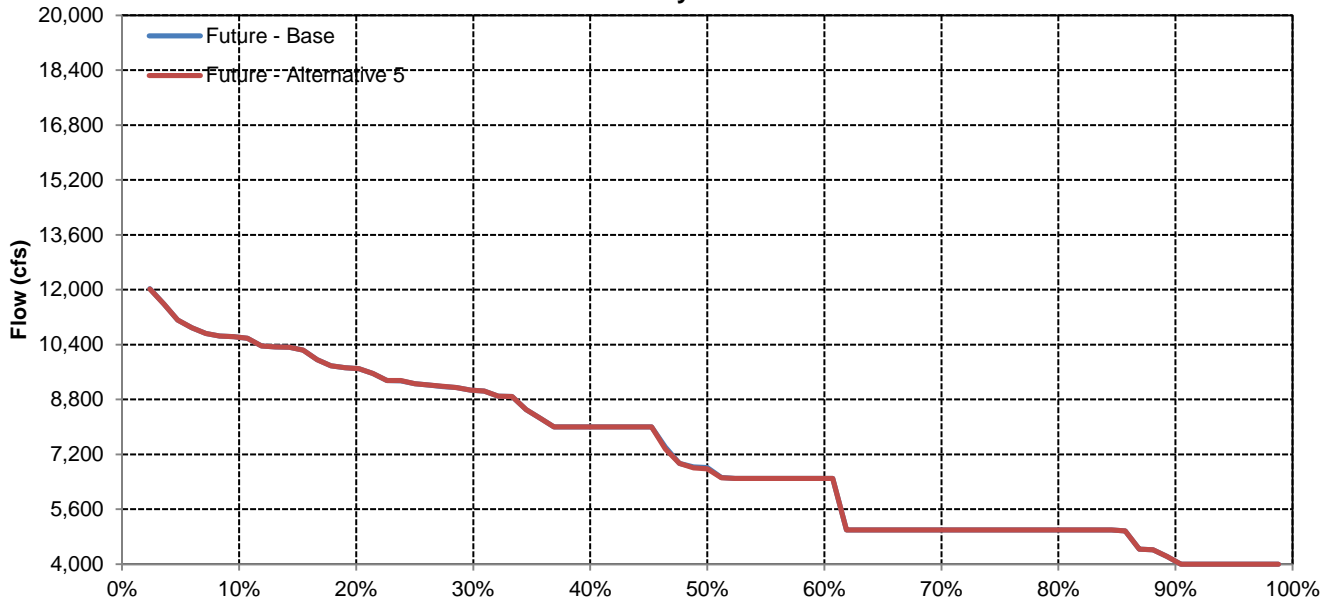


# Delta Outflow

## June

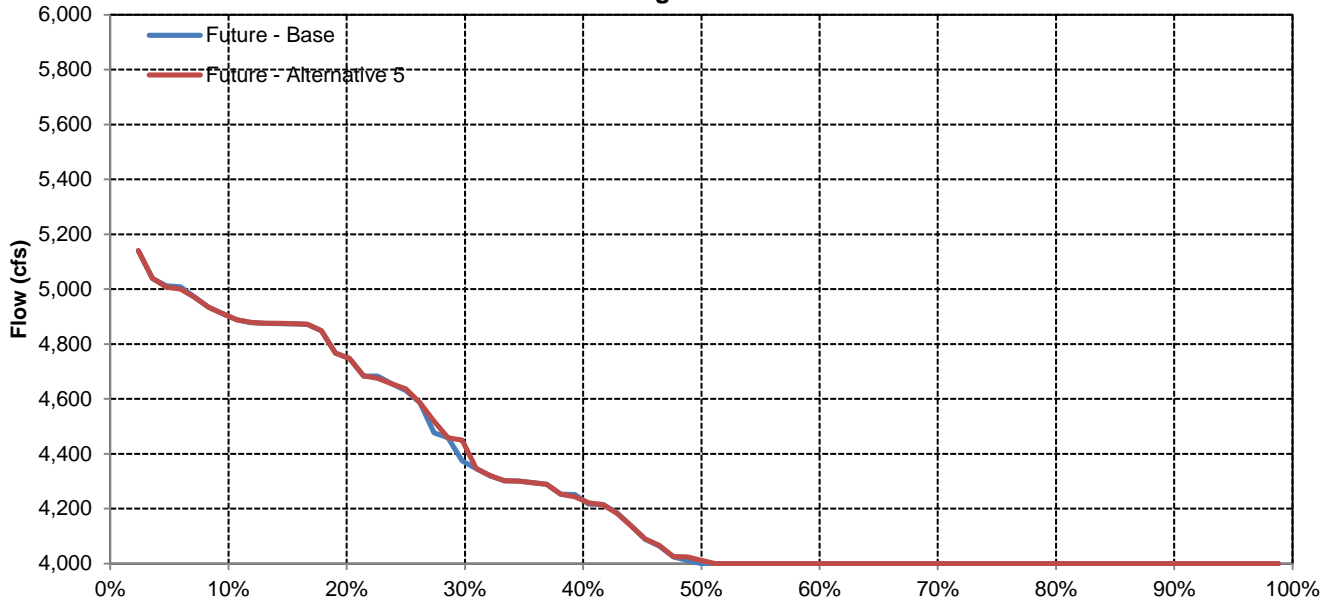


## July



# Delta Outflow

## August



## September

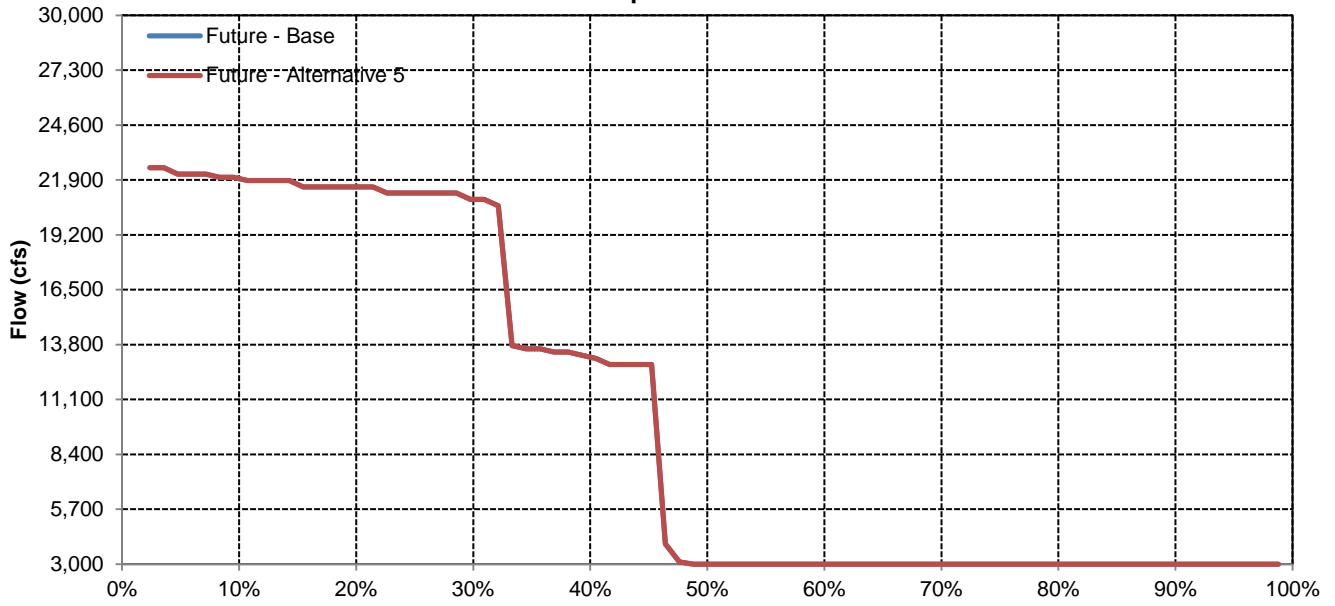


Table 185 No Action Alternative-Alternative 5 (Future)

Winter-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adult Immigration	November through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Juvenile Rearing and Downstream Movement*	July through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
			Freeport	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		

Table 186 No Action Alternative-Alternative 5 (Future)

Spring-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative													
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Adult Immigration	March through September	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%								0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	64			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juvenile Rearing (and Downstream Movement)	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				65			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Smolt Emigration	October through May	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Freeport					10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Mean Monthly Water Temperature (°F)	Feather River Confluence			63			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	Freeport			63			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						

Table 187 No Action Alternative-Alternative 5 (Future)

Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration and Staging	July through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0								0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0								0.0	0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0								0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	December through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				65		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



Table 188 No Action Alternative-Alternative 5 (Future)

Late Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adult Immigration and Staging	October through April	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Juvenile Rearing and Downstream Movement	April through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				65		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 189 No Action Alternative-Alternative 5 (Future)

Steelhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration	August through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Smolt Emigration	January through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0		
Freeport					10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Mean Monthly Water Temperature (°F)	Feather River Confluence			52		All Years				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	Freeport			52		All Years				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 190 No Action Alternative-Alternative 5 (Future)

Green Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	February through July	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years					0.0	0.0	0.0	0.0	0.0	0.0		
Adult Post-Spawning Holding and Emigration	July through November	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 191 No Action Alternative-Alternative 5 (Future)

White Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration and Holding	November through May	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Freeport	77		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Spawning and Egg Incubation	February through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%						0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%						0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years						0.0	0.0	0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 192 No Action Alternative-Alternative 5 (Future)

River Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	September through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 193 No Action Alternative-Alternative 5 (Future)

Pacific Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration	January through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years					0.0	0.0	0.0	0.0	0.0	0.0			
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 194 No Action Alternative-Alternative 5 (Future)

Hardhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adults and Other Lifestages	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0
			Freeport	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	1.2	0.0
Adult Spawning	April through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%							0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Freeport	59-64		All Years								0.0	0.0	0.0				

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 195 No Action Alternative-Alternative 5 (Future)

American Shad in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%								0.0	0.0	0.0				
			Freeport		10	Lower 40%									0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	60-70			All Years								0.1	0.0	0.0			
			Freeport	60-70			All Years								0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63-77			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	0.0
			Freeport	63-77			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	1.2	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.



**Table 196 No Action Alternative-Alternative 5 (Future)**

**Striped Bass in the Sacramento River**

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	59-68			All Years							0.0	0.0	0.0		
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-71			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

**Table 201 No Action Alternative-Alternative 5 (Future)**

**Alternative 5 (Future) vs No Action Alternative  
Sacramento River at Verona, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	81.7	84.1	47.6	48.8	37.8	57.3	98.8	93.9	87.8	93.9	95.1	97.6
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	14.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	6.1	2.4	2.4	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	1.2	12.2	47.6	50.0	59.8	40.2	1.2	4.9	3.7	3.7	2.4	1.2
Net Change in % Exceedance:	13.4	-12.2	-46.3	-50.0	-59.8	-40.2	-1.2	-4.9	2.4	-1.2	0.0	-1.2
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	81.8	97.0	84.8	81.8	42.4	72.7	100.0	100.0	97.0	90.9	100.0	93.9
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	15.2	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	12.1	15.2	54.5	24.2	0.0	0.0	3.0	6.1	0.0	3.0
Net Change in % Exceedance:	15.2	0.0	-9.1	-15.2	-54.5	-24.2	0.0	0.0	-3.0	-3.0	0.0	-3.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 202 No Action Alternative-Alternative 5 (Future)**

**Alternative 5 (Future) vs No Action Alternative  
Sacramento River at Freeport, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	85.4	89.0	57.3	50.0	40.2	61.0	100.0	96.3	89.0	96.3	95.1	93.9
X ≥ 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X > 1.0 (Total %)	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	2.4	2.4	0.0
X ≤ -10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X < -1.0 (Total %)	0.0	8.5	42.7	50.0	54.9	36.6	0.0	3.7	4.9	1.2	1.2	3.7
Net Change in % Exceedance:	12.2	-8.5	-42.7	-50.0	-54.9	-36.6	0.0	-3.7	-1.2	1.2	1.2	-3.7
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	84.8	100.0	97.0	84.8	45.5	75.8	100.0	97.0	90.9	97.0	100.0	90.9
X ≥ 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X > 1.0 (Total %)	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X ≤ -10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X < -1.0 (Total %)	0.0	0.0	3.0	15.2	45.5	18.2	0.0	3.0	9.1	3.0	0.0	6.1
Net Change in % Exceedance:	15.2	0.0	-3.0	-15.2	-45.5	-18.2	0.0	-3.0	-9.1	-3.0	0.0	-6.1
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Table 210 No Action Alternative-Alternative 5 (Future)

Alternative 5 (Future) vs No Action Alternative

Sacramento River at Freeport, Monthly Temperature

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

No Action Alternative													Alternative 5 (Future)													Alternative 5 (Future) - No Action Alternative																
Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep				
40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
48	98.8	98.8	43.9	26.2	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	98.8	98.8	43.9	26.4	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
49	98.8	98.8	26.2	8.5	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	98.8	98.8	25.6	8.5	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	0.0	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
53	98.8	90.2	1.2	1.2	15.6	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	98.8	90.7	1.2	1.2	15.9	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
54	98.8	70.7	1.2	1.2	7.0	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	98.8	70.7	1.2	1.2	6.8	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
59	98.8	2.4	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	98.8	2.3	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
62	89.6	1.2	1.2	1.2	1.2	1.9	62.8	98.8	98.8	98.8	98.8	98.8	62	89.6	1.2	1.2	1.2	1.2	1.9	62.8	98.8	98.8	98.8	98.8	98.8	62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
68	4.7	1.2	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	95.3	68	4.7	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	95.3	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
69	2.7	1.2	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	89.8	69	2.7	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	89.8	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
70	1.6	1.2	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	78.0	70	1.6	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	78.0	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	70.1	71	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	70.1	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	53.7	72	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	53.7	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	39.6	91.5	88.7	22.0	74	1.2	1.2	1.2	1.2	1.2	1.2	3.6	39.6	91.5	89.6	22.0	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0			
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.1	78.7	81.7	9.8	75	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.3	78.7	82.3	9.8	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0				
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	39.0	43.9	2.1	77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	39.0	42.7	2.1	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	-1.2	0.0	0.0	0.0			
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45-75	97.6	97.6	89.0																																							

Table 227 No Action Alternative -Alternative 5 (Future)

Delta Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
				Description	Value		%	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Adult	December through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years			0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years			61.0	54.9	54.9	67.1	0.0	0.0				
	September through November	Mean Monthly X <sub>2</sub> (RKm)	X <sub>2</sub> between 74 km and 81 km	74-81		Wet and Above Normal Water Years	0.0	0.0										0.0
	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			-1.2	0.0	0.0							
Egg and Embryo	February through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years					0.0	0.0	0.0	0.0				
Larval	March through June	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years						0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years						0.0	-3.3	-3.3	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years						0.0	0.0	0.0	0.0			
Juvenile	May through July	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years							0.0	0.0	0.0			
		Mean Monthly X <sub>2</sub> (RKm)	Changes in X <sub>2</sub> between RKm 65 and 80	0.5 RKm		All Years								0.0	0.0	0.0		

Table 228 No Action Alternative -Alternative 5 (Future)

Longfin Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through March	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			-1.2	0.0	0.0	0.0						
Larvae and Juvenile	April and May	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years							-3.3	-3.3				
				< 0 cfs		Dry and Critical Water Years							0.0	0.0				
	January through June	Mean Monthly X <sub>2</sub> (RKm)	X <sub>2</sub>	< 75 RKm		All Years				0.0	0.0	0.0	1.2	0.0	0.0			
				< 75 RKm		Dry and Critical Water Years				0.0	0.0	0.0	0.0	0.0	0.0			

Table 229 No Action Alternative -Alternative 5 (Future)

Winter-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through May	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	61.0	54.9	54.9	67.1	0.0	0.0				
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	-1.2	0.0	0.0	0.0				



Table 230 No Action Alternative -Alternative 5 (Future)

Spring-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0			

Table 231 No Action Alternative -Alternative 5 (Future)

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

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0			
Adult (San Joaquin River)	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	-1.2							

Table 232 No Action Alternative -Alternative 5 (Future)

Steelhead in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Juvenile Rearing and Emigration	October through July	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years	0.0	0.0	0.0	0.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0		

Table 233 No Action Alternative -Alternative 5 (Future)

Green Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	Year-round	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 234 No Action Alternative -Alternative 5 (Future)

White Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Juvenile Rearing and Emigration	April through June	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years								0.0	0.0	0.0			

Table 235 No Action Alternative -Alternative 5 (Future)

**Splittail in the Delta**

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Spawning and Embryo Incubation	February through May	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years						54.9	67.1	0.0	0.0				
Juvenile Rearing and Emigration	April through July	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years								0.0	0.0	0.0	0.0		

Table 236 No Action Alternative -Alternative 5 (Future)

American Shad in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
				Description	Value		%	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Egg and Larvae	April through June	Mean Monthly $X_2$ (Rkm)	Changes in $X_2$	1 Rkm		All Years							0.0	0.0	0.0			

Table 237 No Action Alternative -Alternative 5 (Future)

Striped Bass in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 5 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly $X_2$ (Rkm)	Changes in $X_2$	1 Rkm		All Years							0.0	0.0	0.0			





**Table 239 No Action Alternative -Alternative 5 (Future)**

**Alternative 5 (Future) vs No Action Alternative  
Sacramento River at Rio Vista, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	76.8	97.6	89.0	85.4	80.5	91.5	90.2	90.2	93.9	93.9	97.6	98.8
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	22.0	1.2	4.9	12.2	14.6	6.1	4.9	3.7	1.2	3.7	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	1.2	2.4	0.0	1.2	1.2	4.9	6.1	3.7	2.4	1.2	1.2
Net Change in % Exceedance:	22.0	0.0	2.4	12.2	13.4	4.9	0.0	-2.4	-2.4	1.2	-1.2	-1.2
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	93.9	97.0	90.9	100.0	72.7	90.9	87.9	97.0	100.0	84.8	97.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	6.1	0.0	6.1	0.0	15.2	9.1	12.1	0.0	0.0	9.1	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0	6.1	0.0	0.0
Net Change in % Exceedance:	6.1	-3.0	3.0	0.0	12.1	9.1	12.1	-3.0	0.0	3.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 240 No Action Alternative -Alternative 5 (Future)**

**Alternative 5 (Future) vs No Action Alternative  
Yolo Bypass, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	31.7	31.7	29.3	22.0	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	0.0	69.5	67.1	67.1	69.5	78.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	65.9	67.1	69.5	78.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	67.1	61.0	54.9	54.9	67.1	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	100.0	75.8	69.7	48.5	30.3	12.1	100.0	100.0	100.0	100.0	100.0	100.0
X>=10.0	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0

**Table 241 No Action Alternative -Alternative 5 (Future)**

**Alternative 5 (Future) vs No Action Alternative  
Delta Outflow, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	79.3	97.6	82.9	97.6	89.0	96.3	97.6	96.3	93.9	100.0	98.8	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	14.6	2.4	14.6	2.4	8.5	1.2	2.4	0.0	1.2	0.0	1.2	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	2.4	0.0	1.2	0.0	2.4	1.2	0.0	3.7	4.9	0.0	0.0	0.0
Net Change in % Exceedance:	12.2	2.4	13.4	2.4	6.1	0.0	2.4	-3.7	-3.7	0.0	1.2	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	66.7	97.0	81.8	100.0	75.8	90.9	100.0	90.9	93.9	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	18.2	3.0	18.2	0.0	18.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	6.1	0.0	0.0	0.0	6.1	3.0	0.0	9.1	6.1	0.0	0.0	0.0
Net Change in % Exceedance:	12.1	3.0	18.2	0.0	12.1	0.0	0.0	-9.1	-6.1	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	8,350	10,798	22,082	31,475	37,498	30,725	19,501	11,009	11,566	13,675	9,771	13,116	13,187
Future - Alternative 6	8,373	10,551	21,201	30,061	35,904	29,942	19,489	10,992	11,570	13,699	9,766	13,111	12,895
Difference	23	-247	-880	-1,414	-1,594	-783	-11	-18	4	25	-5	-5	-292
Percent Difference	0%	-2%	-4%	-4%	-4%	-3%	0%	0%	0%	0%	0%	0%	-2%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	8,996	14,634	37,088	51,035	56,945	47,194	30,753	12,279	11,846	17,045	8,777	23,150	19,185
Future - Alternative 6	8,997	14,003	35,134	48,869	54,849	46,323	30,763	12,263	11,855	17,107	8,757	23,135	18,725
Difference	2	-631	-1,954	-2,165	-2,096	-871	10	-16	9	63	-20	-15	-460
Percent Difference	0%	-4%	-5%	-4%	-4%	-2%	0%	0%	0%	0%	0%	0%	-2%
<b>Above Normal</b>													
Future - Base	9,290	10,029	19,595	40,534	52,912	37,168	18,221	12,048	12,038	14,830	9,005	15,709	15,067
Future - Alternative 6	9,462	9,911	18,743	38,420	50,902	35,734	18,223	12,047	12,040	14,830	9,004	15,709	14,687
Difference	172	-118	-853	-2,114	-2,010	-1,434	3	-1	2	0	-1	0	-379
Percent Difference	2%	-1%	-4%	-5%	-4%	-4%	0%	0%	0%	0%	0%	0%	-3%
<b>Below Normal</b>													
Future - Base	8,183	9,236	16,398	24,715	25,957	23,572	16,492	11,386	12,357	12,801	10,142	6,570	10,705
Future - Alternative 6	8,179	9,193	16,030	23,129	24,289	22,660	16,438	11,345	12,285	12,788	10,154	6,570	10,422
Difference	-4	-43	-368	-1,586	-1,668	-912	-55	-41	-72	-12	12	0	-283
Percent Difference	0%	0%	-2%	-6%	-6%	-4%	0%	0%	-1%	0%	0%	0%	-3%
<b>Dry</b>													
Future - Base	7,696	9,129	14,297	16,142	24,160	21,042	12,961	10,471	11,580	11,715	11,004	6,583	9,426
Future - Alternative 6	7,694	9,060	14,122	15,568	22,854	20,399	12,938	10,446	11,662	11,708	11,005	6,583	9,265
Difference	-2	-69	-175	-574	-1,306	-643	-23	-24	82	-6	1	0	-161
Percent Difference	0%	-1%	-1%	-4%	-5%	-3%	0%	0%	1%	0%	0%	0%	-2%
<b>Critical</b>													
Future - Base	7,362	7,663	10,980	13,674	15,968	13,022	10,454	7,796	9,644	9,526	10,173	6,975	7,426
Future - Alternative 6	7,362	7,613	10,670	13,316	15,445	12,935	10,449	7,796	9,592	9,584	10,166	6,975	7,347
Difference	0	-51	-310	-358	-523	-87	-5	0	-53	57	-7	-1	-80
Percent Difference	0%	-1%	-3%	-3%	-3%	-1%	0%	0%	-1%	1%	0%	0%	-1%

Sacramento River Delta Inflow

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,235	17,027	51,654	65,553	69,785	60,402	45,827	14,062	14,775	19,566	11,080	23,931
20%	8,769	12,121	31,691	57,934	63,984	51,170	26,603	12,353	13,371	17,266	10,982	23,302
30%	8,164	10,380	21,194	41,318	55,940	41,821	18,011	11,604	12,742	14,296	10,796	21,171
40%	7,981	9,237	17,702	28,066	43,996	30,782	15,285	11,092	11,853	13,342	10,577	15,579
50%	7,891	8,609	16,336	22,928	32,847	22,574	13,363	10,364	11,233	12,636	10,333	6,896
60%	7,870	7,940	13,685	19,586	22,299	17,435	12,171	9,646	10,701	12,343	9,683	6,650
70%	7,816	7,863	12,583	14,988	18,509	15,725	11,343	9,037	10,289	11,773	8,734	6,595
80%	7,655	7,666	9,913	12,874	16,673	13,489	10,154	8,418	9,791	11,041	8,421	6,535
90%	6,420	6,929	9,262	10,998	14,384	11,578	8,911	7,956	8,712	9,884	7,899	6,418
<b>Long Term</b>												
Full Simulation Period	8,350	10,798	22,082	31,475	37,498	30,725	19,501	11,009	11,566	13,675	9,771	13,116
<b>Water Year Types</b>												
Wet	8,996	14,634	37,088	51,035	56,945	47,194	30,753	12,279	11,846	17,045	8,777	23,150
Above Normal	9,290	10,029	19,595	40,534	52,912	37,168	18,221	12,048	12,038	14,830	9,005	15,709
Below Normal	8,183	9,236	16,398	24,715	25,957	23,572	16,492	11,386	12,357	12,801	10,142	6,570
Dry	7,696	9,129	14,297	16,142	24,160	21,042	12,961	10,471	11,580	11,715	11,004	6,583
Critical	7,362	7,663	10,980	13,674	15,968	13,022	10,454	7,796	9,644	9,526	10,173	6,975

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	9,257	16,476	47,388	64,747	69,784	59,277	45,827	14,062	14,732	19,569	11,081	23,922
20%	8,823	12,011	28,338	54,842	62,200	50,442	26,627	12,348	13,418	17,265	10,976	23,306
30%	8,221	10,304	20,189	36,144	50,688	39,232	18,007	11,602	12,750	14,407	10,826	21,171
40%	7,981	9,212	17,364	24,969	40,249	27,853	15,160	11,010	11,856	13,468	10,578	15,580
50%	7,891	8,569	16,074	21,910	29,947	21,671	13,358	10,364	11,230	12,629	10,270	6,895
60%	7,869	7,931	13,646	18,859	20,561	17,188	12,171	9,530	10,729	12,341	9,683	6,650
70%	7,820	7,854	12,590	14,807	17,798	15,600	11,331	9,037	10,289	11,778	8,711	6,595
80%	7,644	7,662	9,856	12,788	16,377	13,327	10,281	8,418	9,790	11,228	8,421	6,535
90%	6,451	6,925	9,164	10,964	14,265	11,553	8,911	7,949	8,712	9,924	7,900	6,418
<b>Long Term</b>												
Full Simulation Period	8,373	10,551	21,201	30,061	35,904	29,942	19,489	10,992	11,570	13,699	9,766	13,111
<b>Water Year Types</b>												
Wet	8,997	14,003	35,134	48,869	54,849	46,323	30,763	12,263	11,855	17,107	8,757	23,135
Above Normal	9,462	9,911	18,743	38,420	50,902	35,734	18,223	12,047	12,040	14,830	9,004	15,709
Below Normal	8,179	9,193	16,030	23,129	24,289	22,660	16,438	11,345	12,285	12,788	10,154	6,570
Dry	7,694	9,060	14,122	15,568	22,854	20,399	12,938	10,446	11,662	11,708	11,005	6,583
Critical	7,362	7,613	10,670	13,316	15,445	12,935	10,449	7,796	9,592	9,584	10,166	6,975

Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	23	-551	-4,266	-805	-1	-1,125	0	0	-43	3	1	-9
20%	54	-110	-3,354	-3,093	-1,785	-728	24	-4	47	-1	-6	5
30%	58	-77	-1,005	-5,174	-5,252	-2,589	-4	-2	8	111	30	0
40%	0	-25	-338	-3,097	-3,747	-2,929	-125	-82	3	127	0	1
50%	0	-40	-262	-1,018	-2,899	-902	-5	0	-4	-7	-63	-2
60%	-1	-9	-39	-726	-1,738	-246	0	-116	27	-1	0	0
70%	5	-10	6	-182	-711	-125	-12	0	0	5	-24	0
80%	-12	-4	-57	-87	-296	-161	127	0	0	187	0	0
90%	31	-4	-98	-34	-119	-25	0	-7	0	40	1	0
<b>Long Term</b>												
Full Simulation Period	23	-247	-880	-1,414	-1,594	-783	-11	-18	4	25	-5	-5
<b>Water Year Types</b>												
Wet	2	-631	-1,954	-2,165	-2,096	-871	10	-16	9	63	-20	-15
Above Normal	172	-118	-853	-2,114	-2,010	-1,434	3	-1	2	0	-1	0
Below Normal	-4	-43	-368	-1,586	-1,668	-912	-55	-41	-72	-12	12	0
Dry	-2	-69	-175	-574	-1,306	-643	-23	-24	82	-6	1	0
Critical	0	-51	-310	-358	-523	-87	-5	0	-53	57	-7	-1

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	1,473	705	382	224	236	323	5,015	5,427	7,762	7,605	5,752	1,944	2,234
Future - Alternative 6	1,473	705	383	224	236	323	5,015	5,427	7,762	7,605	5,753	1,944	2,234
Difference	0	1	1	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%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	1,422	667	363	222	239	272	4,539	5,521	8,164	8,101	6,181	2,142	2,294
Future - Alternative 6	1,423	667	363	223	240	272	4,539	5,521	8,164	8,101	6,180	2,142	2,294
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	1,457	694	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186	2,288
Future - Alternative 6	1,460	700	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186	2,288
Difference	3	6	0	0	0	0	0	0	1	1	1	0	1
Percent Difference	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	1,574	746	411	234	233	328	5,295	5,621	7,827	7,667	5,800	1,881	2,280
Future - Alternative 6	1,574	746	417	234	233	328	5,296	5,622	7,828	7,668	5,801	1,882	2,281
Difference	0	0	7	0	0	0	1	1	1	1	1	1	1
Percent Difference	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793	2,233
Future - Alternative 6	1,508	709	382	229	237	331	5,227	5,485	7,678	7,542	5,719	1,792	2,233
Difference	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613	2,004
Future - Alternative 6	1,430	744	395	208	229	492	5,501	4,807	6,779	6,234	4,653	1,614	2,004
Difference	0	0	0	0	0	0	1	1	2	2	2	1	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries North of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,805	942	487	299	267	609	6,547	6,089	8,526	8,483	6,489	2,345
20%	1,755	883	457	252	247	417	5,972	5,927	8,171	8,021	6,143	2,197
30%	1,658	800	416	226	238	324	5,606	5,855	8,035	7,830	5,984	2,126
40%	1,589	744	392	214	238	246	5,384	5,734	7,885	7,765	5,908	2,076
50%	1,479	674	372	213	238	223	5,166	5,604	7,789	7,720	5,830	1,992
60%	1,378	629	349	213	232	214	4,809	5,360	7,687	7,626	5,729	1,927
70%	1,309	601	337	211	230	212	4,680	5,116	7,576	7,431	5,626	1,790
80%	1,217	552	310	198	212	212	4,277	4,968	7,405	7,212	5,449	1,713
90%	1,119	511	297	183	206	199	3,070	4,539	7,117	7,088	5,246	1,500
<b>Long Term</b>												
Full Simulation Period	1,473	705	382	224	236	323	5,015	5,427	7,762	7,605	5,752	1,944
<b>Water Year Types</b>												
Wet	1,422	667	363	222	239	272	4,539	5,521	8,164	8,101	6,181	2,142
Above Normal	1,457	694	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186
Below Normal	1,574	746	411	234	233	328	5,295	5,621	7,827	7,667	5,800	1,881
Dry	1,508	709	382	229	237	331	5,227	5,486	7,679	7,543	5,719	1,793
Critical	1,430	744	395	208	229	491	5,500	4,805	6,777	6,232	4,651	1,613

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,805	942	487	299	267	608	6,547	6,089	8,527	8,483	6,488	2,347
20%	1,755	883	457	252	247	416	5,972	5,927	8,170	8,020	6,145	2,197
30%	1,657	800	423	226	238	324	5,606	5,857	8,036	7,830	5,984	2,126
40%	1,591	744	394	214	238	246	5,382	5,734	7,885	7,764	5,907	2,076
50%	1,479	674	376	213	238	223	5,167	5,602	7,789	7,720	5,831	1,993
60%	1,378	629	350	213	232	214	4,809	5,360	7,685	7,627	5,736	1,926
70%	1,309	606	337	211	230	212	4,680	5,116	7,576	7,428	5,626	1,791
80%	1,217	552	310	198	212	212	4,277	4,968	7,400	7,223	5,449	1,716
90%	1,119	511	297	183	206	199	3,070	4,541	7,116	7,088	5,246	1,499
<b>Long Term</b>												
Full Simulation Period	1,473	705	383	224	236	323	5,015	5,427	7,762	7,605	5,753	1,944
<b>Water Year Types</b>												
Wet	1,423	667	363	223	240	272	4,539	5,521	8,164	8,101	6,180	2,142
Above Normal	1,460	700	376	226	237	239	4,896	5,545	7,962	7,972	5,945	2,186
Below Normal	1,574	746	417	234	233	328	5,296	5,622	7,828	7,668	5,801	1,882
Dry	1,508	709	382	229	237	331	5,227	5,485	7,678	7,542	5,719	1,792
Critical	1,430	744	395	208	229	492	5,501	4,807	6,779	6,234	4,653	1,614

Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	2	0	-1	3
20%	0	0	0	0	0	0	0	0	0	-1	2	0
30%	-1	0	8	0	0	0	0	2	0	-1	0	0
40%	2	0	2	0	0	0	-1	0	0	-1	-2	0
50%	0	0	4	0	0	0	1	-1	0	0	1	1
60%	0	0	1	0	0	0	0	0	-2	1	7	-1
70%	0	5	0	0	0	0	0	0	0	-3	0	1
80%	0	0	0	0	0	0	0	-1	-5	11	0	3
90%	0	0	0	0	0	0	0	2	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	1	1	0	0	0	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal	3	6	0	0	0	0	0	0	1	1	1	0
Below Normal	0	0	7	0	0	0	1	1	1	1	1	1
Dry	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Critical	0	0	0	0	0	0	1	1	2	2	2	1



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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	2,541	1,483	1,013	1,043	1,435	1,900	2,274	3,350	4,776	5,105	4,521	3,213	1,977
Future - Alternative 6	2,541	1,483	1,014	1,044	1,435	1,900	2,274	3,351	4,777	5,106	4,522	3,214	1,977
Difference	0	0	0	0	0	1	0	0	1	1	1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	2,628	1,550	1,095	1,170	1,593	2,232	2,721	3,999	5,835	6,367	5,454	3,566	2,313
Future - Alternative 6	2,628	1,550	1,095	1,170	1,593	2,231	2,720	3,998	5,834	6,365	5,453	3,565	2,313
Difference	0	0	0	0	0	-1	0	-1	-1	-1	-1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	2,596	1,530	1,079	1,152	1,565	2,038	2,507	3,669	5,292	5,715	4,982	3,398	2,150
Future - Alternative 6	2,598	1,532	1,082	1,156	1,571	2,038	2,508	3,672	5,296	5,720	4,986	3,400	2,153
Difference	3	2	3	4	5	0	1	3	5	6	4	1	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	2,569	1,496	1,013	1,030	1,414	1,790	2,113	3,233	4,568	4,845	4,352	3,183	1,913
Future - Alternative 6	2,569	1,495	1,013	1,030	1,414	1,792	2,112	3,234	4,570	4,848	4,353	3,184	1,914
Difference	0	0	0	0	-1	1	-1	1	2	2	2	1	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	2,498	1,450	976	989	1,372	1,737	2,052	3,009	4,201	4,404	4,029	3,068	1,802
Future - Alternative 6	2,497	1,449	976	988	1,370	1,737	2,051	3,007	4,198	4,400	4,027	3,067	1,801
Difference	-1	-1	-1	-1	-1	0	-1	-2	-3	-4	-3	-1	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	2,345	1,334	839	773	1,100	1,443	1,639	2,349	3,196	3,259	3,082	2,556	1,447
Future - Alternative 6	2,345	1,335	839	774	1,100	1,448	1,641	2,352	3,202	3,267	3,087	2,558	1,449
Difference	0	0	0	0	0	6	3	4	6	7	5	2	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total CVP Deliveries South of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,941	1,798	1,415	1,688	2,240	2,237	2,991	4,427	6,543	7,218	6,075	3,780
20%	2,680	1,582	1,131	1,233	1,686	2,097	2,545	3,727	5,389	5,832	5,065	3,423
30%	2,638	1,550	1,086	1,155	1,563	2,032	2,485	3,587	5,156	5,552	4,863	3,357
40%	2,592	1,514	1,037	1,069	1,461	1,991	2,369	3,431	4,896	5,239	4,638	3,283
50%	2,558	1,488	1,001	1,006	1,392	1,953	2,330	3,318	4,708	5,013	4,475	3,229
60%	2,543	1,477	986	979	1,342	1,867	2,220	3,270	4,627	4,915	4,405	3,206
70%	2,503	1,445	943	909	1,280	1,698	2,023	3,147	4,424	4,671	4,227	3,144
80%	2,317	1,285	758	649	946	1,506	1,789	2,595	3,551	3,699	3,435	2,852
90%	2,252	1,229	666	483	770	1,506	1,565	2,402	3,208	3,212	3,156	2,749
<b>Long Term</b>												
Full Simulation Period	2,541	1,483	1,013	1,043	1,435	1,900	2,274	3,350	4,776	5,105	4,521	3,213
<b>Water Year Types</b>												
Wet	2,628	1,550	1,095	1,170	1,593	2,232	2,721	3,999	5,835	6,367	5,454	3,566
Above Normal	2,596	1,530	1,079	1,152	1,565	2,038	2,507	3,669	5,292	5,715	4,982	3,398
Below Normal	2,569	1,496	1,013	1,030	1,414	1,790	2,113	3,233	4,568	4,845	4,352	3,183
Dry	2,498	1,450	976	989	1,372	1,737	2,052	3,009	4,201	4,404	4,029	3,068
Critical	2,345	1,334	839	773	1,100	1,443	1,639	2,349	3,196	3,259	3,082	2,556

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,941	1,798	1,415	1,688	2,240	2,237	2,989	4,427	6,543	7,217	6,075	3,780
20%	2,683	1,584	1,134	1,239	1,693	2,097	2,545	3,736	5,406	5,852	5,080	3,428
30%	2,638	1,550	1,086	1,155	1,563	2,032	2,486	3,587	5,156	5,552	4,863	3,357
40%	2,592	1,514	1,037	1,069	1,461	1,990	2,368	3,431	4,896	5,239	4,638	3,283
50%	2,557	1,488	1,001	1,005	1,392	1,951	2,328	3,316	4,704	5,008	4,472	3,228
60%	2,543	1,477	986	979	1,340	1,867	2,219	3,270	4,626	4,915	4,404	3,206
70%	2,503	1,445	943	909	1,280	1,698	2,023	3,147	4,424	4,671	4,227	3,144
80%	2,315	1,283	757	657	952	1,506	1,789	2,590	3,542	3,689	3,427	2,849
90%	2,252	1,229	666	483	770	1,506	1,563	2,402	3,208	3,212	3,156	2,749
<b>Long Term</b>												
Full Simulation Period	2,541	1,483	1,014	1,044	1,435	1,900	2,274	3,351	4,777	5,106	4,522	3,214
<b>Water Year Types</b>												
Wet	2,628	1,550	1,095	1,170	1,593	2,231	2,720	3,998	5,834	6,365	5,453	3,565
Above Normal	2,598	1,532	1,082	1,156	1,571	2,038	2,508	3,672	5,296	5,720	4,986	3,400
Below Normal	2,569	1,495	1,013	1,030	1,414	1,792	2,112	3,234	4,570	4,848	4,353	3,184
Dry	2,497	1,449	976	988	1,370	1,737	2,051	3,007	4,198	4,400	4,027	3,067
Critical	2,345	1,335	839	774	1,100	1,448	1,641	2,352	3,202	3,267	3,087	2,558

Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	-1	0	0	0	0	0
20%	3	2	3	6	7	0	0	10	17	20	14	5
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	-1	-1	0	0	0	0	0
50%	-1	0	-1	-1	0	-1	-2	-2	-4	-4	-3	-1
60%	0	0	0	0	-2	0	-1	0	-1	-1	-1	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	-2	-2	-2	8	6	0	0	-5	-9	-10	-8	-3
90%	0	0	0	0	0	0	-2	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	0	0	0	0	1	0	0	1	1	1	0
<b>Water Year Types</b>												
Wet	0	0	0	0	0	-1	0	-1	-1	-1	-1	0
Above Normal	3	2	3	4	5	0	1	3	5	6	4	1
Below Normal	0	0	0	0	-1	1	-1	1	2	2	2	1
Dry	-1	-1	-1	-1	-1	0	-1	-2	-3	-4	-3	-1
Critical	0	0	0	0	0	6	3	4	6	7	5	2

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	1,383	1,394	894	328	13	89	2,005	2,578	3,092	3,044	2,413	1,806	1,154
Future - Alternative 6	1,383	1,396	894	327	13	89	2,005	2,578	3,092	3,044	2,413	1,806	1,154
Difference	0	3	0	-1	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	1,303	1,401	853	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074	1,213
Future - Alternative 6	1,291	1,389	842	239	19	65	1,869	2,776	3,389	3,342	2,672	2,074	1,210
Difference	-12	-12	-11	-3	0	0	0	0	0	0	0	0	-2
Percent Difference	-1%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204	1,275
Future - Alternative 6	1,595	1,669	1,080	409	15	50	2,031	2,790	3,335	3,327	2,627	2,204	1,281
Difference	30	46	25	2	0	0	0	0	0	0	0	0	6
Percent Difference	2%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	1,651	1,640	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792	1,216
Future - Alternative 6	1,651	1,639	1,087	417	8	64	2,125	2,653	3,143	3,043	2,435	1,792	1,216
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	1,337	1,248	830	347	9	103	2,053	2,604	3,083	2,985	2,385	1,750	1,136
Future - Alternative 6	1,337	1,248	830	347	9	103	2,053	2,604	3,082	2,985	2,385	1,750	1,136
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967	881
Future - Alternative 6	1,172	1,146	734	313	9	183	2,068	1,833	2,185	2,240	1,680	967	881
Difference	0	0	0	0	0	1	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries North of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,163	2,065	1,372	614	20	198	2,860	3,128	3,657	3,561	2,846	2,296
20%	2,011	1,961	1,290	520	20	128	2,556	3,038	3,510	3,477	2,800	2,233
30%	1,827	1,898	1,219	469	20	45	2,378	2,974	3,442	3,369	2,687	2,175
40%	1,653	1,843	1,157	443	19	45	2,110	2,899	3,373	3,302	2,608	2,118
50%	1,404	1,703	1,024	383	15	45	2,006	2,738	3,312	3,227	2,577	2,049
60%	1,320	1,495	940	266	11	45	1,845	2,648	3,201	3,168	2,531	1,963
70%	1,203	1,193	681	154	4	45	1,739	2,470	3,116	3,106	2,484	1,662
80%	861	570	347	60	3	32	1,397	1,931	2,987	2,952	2,290	1,247
90%	277	53	12	11	2	20	1,141	1,669	1,927	1,929	1,506	987
<b>Long Term</b>												
Full Simulation Period	1,383	1,394	894	328	13	89	2,005	2,578	3,092	3,044	2,413	1,806
<b>Water Year Types</b>												
Wet	1,303	1,401	853	242	19	65	1,869	2,776	3,389	3,342	2,672	2,074
Above Normal	1,565	1,622	1,055	408	15	50	2,031	2,790	3,335	3,327	2,627	2,204
Below Normal	1,651	1,640	1,087	417	9	64	2,125	2,653	3,143	3,043	2,435	1,792
Dry	1,337	1,248	830	347	9	103	2,053	2,604	3,083	2,985	2,385	1,750
Critical	1,172	1,146	734	313	9	182	2,067	1,833	2,185	2,240	1,680	967

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	2,163	2,065	1,372	614	20	198	2,860	3,128	3,657	3,561	2,846	2,296
20%	2,011	1,961	1,290	520	20	128	2,556	3,038	3,510	3,477	2,800	2,233
30%	1,796	1,898	1,219	469	20	45	2,378	2,974	3,442	3,369	2,686	2,175
40%	1,606	1,843	1,157	443	19	45	2,110	2,899	3,373	3,302	2,608	2,118
50%	1,404	1,703	1,024	383	15	45	2,006	2,738	3,312	3,227	2,577	2,049
60%	1,320	1,495	940	266	11	45	1,845	2,648	3,201	3,168	2,530	1,963
70%	1,203	1,189	668	153	4	45	1,739	2,470	3,116	3,106	2,484	1,662
80%	861	553	346	55	3	31	1,397	1,931	2,987	2,952	2,290	1,247
90%	340	173	76	13	2	20	1,141	1,669	1,927	1,929	1,506	985
<b>Long Term</b>												
Full Simulation Period	1,383	1,396	894	327	13	89	2,005	2,578	3,092	3,044	2,413	1,806
<b>Water Year Types</b>												
Wet	1,291	1,389	842	239	19	65	1,869	2,776	3,389	3,342	2,672	2,074
Above Normal	1,595	1,669	1,080	409	15	50	2,031	2,790	3,335	3,327	2,627	2,204
Below Normal	1,651	1,639	1,087	417	8	64	2,125	2,653	3,143	3,043	2,435	1,792
Dry	1,337	1,248	830	347	9	103	2,053	2,604	3,082	2,985	2,385	1,750
Critical	1,172	1,146	734	313	9	183	2,068	1,833	2,185	2,240	1,680	967

Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	-31	0	0	0	0	0	0	0	0	0	0	0
40%	-47	1	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	-1	0
70%	0	-3	-13	-1	0	0	0	0	0	0	0	0
80%	0	-17	-1	-5	0	0	0	0	0	0	0	0
90%	63	120	64	2	0	0	0	0	0	0	0	-2
<b>Long Term</b>												
Full Simulation Period	0	3	0	-1	0	0	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	-12	-12	-11	-3	0	0	0	0	0	0	0	0
Above Normal	30	46	25	2	0	0	0	0	0	0	0	0
Below Normal	0	0	0	0	0	0	0	0	0	0	0	0
Dry	0	0	0	0	0	0	0	0	0	0	0	0
Critical	0	0	0	0	0	1	0	0	0	0	0	0

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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	4,043	2,984	3,596	472	840	1,531	2,542	3,813	5,165	5,535	5,706	4,829	2,489
Future - Alternative 6	4,039	2,976	3,576	468	836	1,519	2,529	3,799	5,152	5,526	5,695	4,820	2,482
Difference	-4	-8	-20	-4	-4	-13	-14	-14	-12	-9	-11	-10	-7
Percent Difference	0%	0%	-1%	-1%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	4,344	2,993	4,138	1,107	1,816	2,666	3,835	5,364	6,773	6,814	7,151	6,006	3,210
Future - Alternative 6	4,355	2,991	4,104	1,105	1,811	2,663	3,833	5,362	6,770	6,812	7,148	6,002	3,207
Difference	11	-3	-34	-2	-5	-3	-2	-2	-3	-3	-4	-3	-3
Percent Difference	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	4,230	3,445	3,981	275	949	2,295	3,530	4,967	6,244	6,377	6,711	5,656	2,949
Future - Alternative 6	4,219	3,440	3,968	253	948	2,279	3,518	4,951	6,222	6,355	6,695	5,635	2,938
Difference	-11	-5	-14	-22	-1	-16	-12	-17	-22	-22	-17	-20	-11
Percent Difference	0%	0%	0%	-8%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	4,466	3,200	3,761	277	460	940	2,653	3,955	5,476	6,029	6,261	5,329	2,596
Future - Alternative 6	4,457	3,194	3,756	277	459	883	2,630	3,945	5,462	6,013	6,238	5,310	2,585
Difference	-8	-5	-5	0	-1	-57	-23	-9	-14	-16	-23	-19	-11
Percent Difference	0%	0%	0%	0%	0%	-6%	-1%	0%	0%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	3,825	2,760	3,103	122	199	821	1,523	2,587	4,084	4,826	4,854	4,140	1,994
Future - Alternative 6	3,810	2,742	3,087	122	191	818	1,495	2,547	4,058	4,819	4,843	4,131	1,983
Difference	-14	-18	-17	0	-8	-3	-29	-39	-26	-7	-11	-9	-11
Percent Difference	0%	-1%	-1%	0%	-4%	0%	-2%	-2%	-1%	0%	0%	0%	-1%
<b>Critical</b>													
Future - Base	3,125	2,678	2,710	71	105	198	415	1,284	2,155	2,635	2,470	2,132	1,213
Future - Alternative 6	3,119	2,671	2,690	71	106	199	410	1,285	2,155	2,633	2,462	2,125	1,210
Difference	-6	-8	-20	0	0	1	-6	2	0	-3	-7	-7	-3
Percent Difference	0%	0%	-1%	0%	0%	1%	-1%	0%	0%	0%	0%	0%	0%

Total SWP Deliveries South of the Delta

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6,024	4,586	5,669	1,962	2,014	2,905	4,303	5,987	7,491	7,386	7,710	6,606
20%	5,428	4,361	5,320	595	1,939	2,706	3,782	5,413	6,881	7,045	7,177	6,208
30%	5,007	4,042	4,484	231	1,754	2,547	3,546	4,855	6,162	6,469	6,763	5,710
40%	4,894	3,793	4,121	172	634	2,500	3,396	4,756	6,020	6,231	6,634	5,517
50%	4,695	3,368	3,879	145	305	1,970	3,227	4,579	5,814	6,154	6,532	5,440
60%	4,383	2,362	3,600	104	193	456	2,566	3,547	5,530	5,944	6,369	5,228
70%	2,920	2,054	2,708	91	137	337	1,514	2,544	4,505	5,640	5,920	4,934
80%	2,451	1,296	1,887	72	112	220	520	2,078	3,482	4,247	3,946	3,332
90%	1,299	897	964	56	55	146	301	1,184	1,956	2,357	2,163	1,854
<b>Long Term</b>												
Full Simulation Period	4,043	2,984	3,596	472	840	1,531	2,542	3,813	5,165	5,535	5,706	4,829
<b>Water Year Types</b>												
Wet	4,344	2,993	4,138	1,107	1,816	2,666	3,835	5,364	6,773	6,814	7,151	6,006
Above Normal	4,230	3,445	3,981	275	949	2,295	3,530	4,967	6,244	6,377	6,711	5,656
Below Normal	4,466	3,200	3,761	277	460	940	2,653	3,955	5,476	6,029	6,261	5,329
Dry	3,825	2,760	3,103	122	199	821	1,523	2,587	4,084	4,826	4,854	4,140
Critical	3,125	2,678	2,710	71	105	198	415	1,284	2,155	2,635	2,470	2,132

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	6,029	4,578	5,671	1,967	2,014	2,904	4,309	5,990	7,494	7,396	7,706	6,606
20%	5,431	4,362	5,319	595	1,939	2,681	3,783	5,413	6,877	7,024	7,151	6,211
30%	4,994	4,042	4,484	233	1,741	2,580	3,551	4,866	6,137	6,496	6,772	5,705
40%	4,894	3,772	4,093	171	587	2,485	3,347	4,756	6,020	6,234	6,626	5,518
50%	4,683	3,346	3,868	144	308	1,834	3,227	4,569	5,782	6,149	6,532	5,428
60%	4,389	2,381	3,527	108	192	456	2,457	3,369	5,484	5,937	6,332	5,225
70%	2,948	2,068	2,501	91	137	337	1,407	2,523	4,467	5,644	5,880	4,938
80%	2,458	1,330	1,898	73	112	231	521	2,079	3,485	4,255	3,956	3,342
90%	1,301	885	948	56	56	144	295	1,159	1,912	2,298	2,112	1,843
<b>Long Term</b>												
Full Simulation Period	4,039	2,976	3,576	468	836	1,519	2,529	3,799	5,152	5,526	5,695	4,820
<b>Water Year Types</b>												
Wet	4,355	2,991	4,104	1,105	1,811	2,663	3,833	5,362	6,770	6,812	7,148	6,002
Above Normal	4,219	3,440	3,968	253	948	2,279	3,518	4,951	6,222	6,355	6,695	5,635
Below Normal	4,457	3,194	3,756	277	459	883	2,630	3,945	5,462	6,013	6,238	5,310
Dry	3,810	2,742	3,087	122	191	818	1,495	2,547	4,058	4,819	4,843	4,131
Critical	3,119	2,671	2,690	71	106	199	410	1,285	2,155	2,633	2,462	2,125

Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	5	-8	1	5	0	-1	6	3	3	9	-4	0
20%	3	0	-1	-1	0	-25	1	0	-4	-21	-26	3
30%	-13	0	0	2	-13	33	5	11	-25	27	9	-5
40%	0	-22	-28	0	-47	-15	-49	0	0	2	-8	1
50%	-12	-22	-11	0	4	-137	0	-10	-32	-5	0	-12
60%	6	19	-73	3	-1	0	-109	-178	-46	-6	-36	-4
70%	28	14	-207	0	0	1	-107	-21	-38	5	-40	4
80%	7	34	11	0	0	10	0	4	7	10	10	10
90%	2	-12	-16	0	1	-3	-6	-25	-44	-59	-51	-11
<b>Long Term</b>												
Full Simulation Period	-4	-8	-20	-4	-4	-13	-14	-14	-12	-9	-11	-10
<b>Water Year Types</b>												
Wet	11	-3	-34	-2	-5	-3	-2	-2	-3	-3	-4	-3
Above Normal	-11	-5	-14	-22	-1	-16	-12	-17	-22	-22	-17	-20
Below Normal	-8	-5	-5	0	-1	-57	-23	-9	-14	-16	-23	-19
Dry	-14	-18	-17	0	-8	-3	-29	-39	-26	-7	-11	-9
Critical	-6	-8	-20	0	0	1	-6	2	0	-3	-7	-7

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

Analysis Period	Average Flow (cfs)												Total (TAF)	
	October	November	December	January	February	March	April	May	June	July	August	September		
<b>Long-Term</b>														
<b>Full Simulation Period</b>														
Future - Base	43	57	2,754	12,157	16,930	8,465	1,050	3	0	0	0	0	0	2,453
Future - Alternative 6	43	302	3,668	13,715	18,661	9,289	1,050	3	0	0	0	0	0	2,767
Difference	0	245	913	1,558	1,731	824	0	0	0	0	0	0	0	314
Percent Difference	0%	429%	33%	13%	10%	10%	0%	0%	0%	0%	0%	0%	0%	13%
<b>Water Year-Types</b>														
<b>Wet</b>														
Future - Base	135	180	7,592	34,147	41,220	23,151	3,236	10	0	0	0	0	0	6,503
Future - Alternative 6	135	822	9,748	36,526	43,390	24,040	3,235	10	0	0	0	0	0	6,996
Difference	0	642	2,156	2,379	2,170	889	0	0	0	0	0	0	0	493
Percent Difference	0%	357%	28%	7%	5%	4%	0%	0%	0%	0%	0%	0%	0%	8%
<b>Above Normal</b>														
Future - Base	0	0	946	9,205	25,241	6,208	14	0	0	0	0	0	0	2,432
Future - Alternative 6	0	133	1,688	11,510	27,453	7,582	14	0	0	0	0	0	0	2,836
Difference	0	133	742	2,305	2,211	1,374	0	0	0	0	0	0	0	404
Percent Difference	0%	0%	79%	25%	9%	22%	0%	0%	0%	0%	0%	0%	0%	17%
<b>Below Normal</b>														
Future - Base	0	0	1,390	583	1,456	737	137	0	0	0	0	0	0	257
Future - Alternative 6	0	44	1,781	2,321	3,261	1,771	137	0	0	0	0	0	0	555
Difference	0	44	391	1,738	1,805	1,034	0	0	0	0	0	0	0	298
Percent Difference	0%	0%	28%	298%	124%	140%	0%	0%	0%	0%	0%	0%	0%	116%
<b>Dry</b>														
Future - Base	0	0	0	11	981	717	0	0	0	0	0	0	0	99
Future - Alternative 6	0	65	232	650	2,499	1,441	0	0	0	0	0	0	0	286
Difference	0	65	232	640	1,518	724	0	0	0	0	0	0	0	187
Percent Difference	0%	0%	0%	5915%	155%	101%	0%	0%	0%	0%	0%	0%	0%	188%
<b>Critical</b>														
Future - Base	0	0	0	0	26	0	0	0	0	0	0	0	0	1
Future - Alternative 6	0	6	79	429	641	120	0	0	0	0	0	0	0	75
Difference	0	6	79	429	615	120	0	0	0	0	0	0	0	74
Percent Difference	0%	0%	0%	0%	2360%	0%	0%	0%	0%	0%	0%	0%	0%	4939%

Fremont Weir Spill to Yolo Bypass

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	9,636	45,653	68,479	26,076	480	0	0	0	0	0
20%	0	0	417	14,794	32,134	7,332	2	0	0	0	0	0
30%	0	0	0	2,685	10,131	3,487	0	0	0	0	0	0
40%	0	0	0	83	4,103	180	0	0	0	0	0	0
50%	0	0	0	0	501	0	0	0	0	0	0	0
60%	0	0	0	0	3	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	43	57	2,754	12,157	16,930	8,465	1,050	3	0	0	0	0
<b>Water Year Types</b>												
Wet	135	180	7,592	34,147	41,220	23,151	3,236	10	0	0	0	0
Above Normal	0	0	946	9,205	25,241	6,208	14	0	0	0	0	0
Below Normal	0	0	1,390	583	1,456	737	137	0	0	0	0	0
Dry	0	0	0	11	981	717	0	0	0	0	0	0
Critical	0	0	0	0	26	0	0	0	0	0	0	0

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	426	12,932	46,062	69,134	26,707	480	0	0	0	0	0
20%	0	136	3,584	17,773	32,822	9,089	2	0	0	0	0	0
30%	0	66	835	8,408	14,332	5,678	0	0	0	0	0	0
40%	0	26	512	3,702	8,256	2,633	0	0	0	0	0	0
50%	0	12	310	1,654	4,696	800	0	0	0	0	0	0
60%	0	9	93	798	1,895	401	0	0	0	0	0	0
70%	0	7	26	238	767	268	0	0	0	0	0	0
80%	0	6	11	66	358	84	0	0	0	0	0	0
90%	0	5	7	27	98	17	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	43	302	3,668	13,715	18,661	9,289	1,050	3	0	0	0	0
<b>Water Year Types</b>												
Wet	135	822	9,748	36,526	43,390	24,040	3,235	10	0	0	0	0
Above Normal	0	133	1,688	11,510	27,453	7,582	14	0	0	0	0	0
Below Normal	0	44	1,781	2,321	3,261	1,771	137	0	0	0	0	0
Dry	0	65	232	650	2,499	1,441	0	0	0	0	0	0
Critical	0	6	79	429	641	120	0	0	0	0	0	0

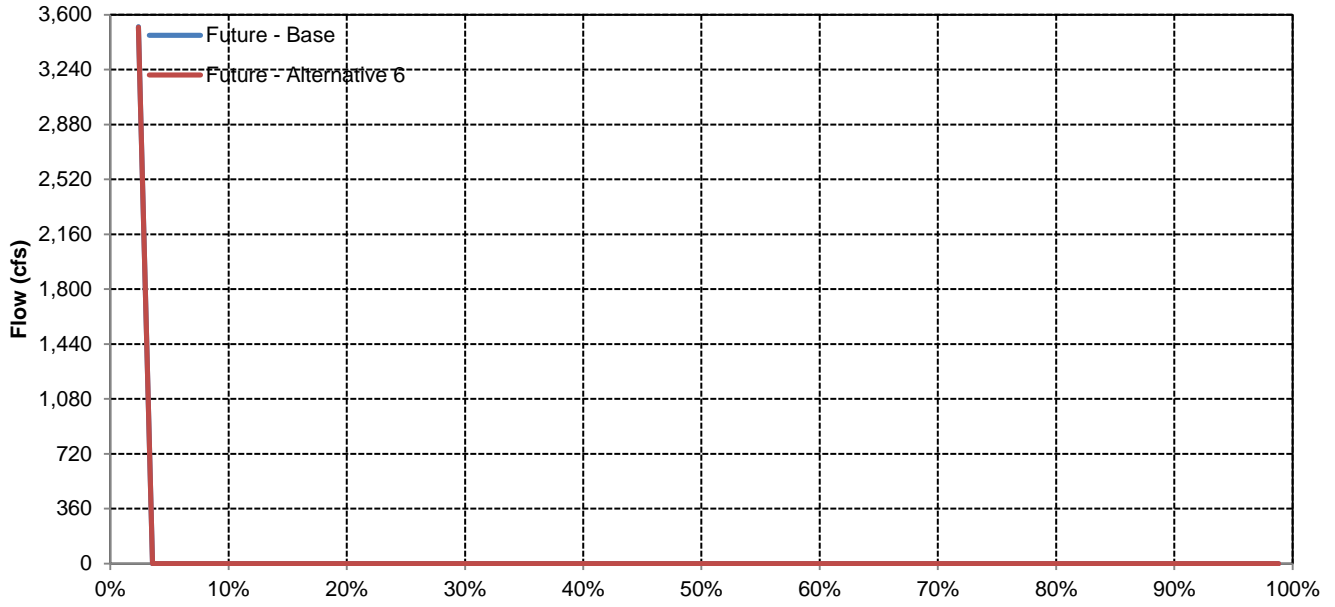
Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	426	3,297	409	655	631	0	0	0	0	0	0
20%	0	136	3,167	2,979	688	1,758	0	0	0	0	0	0
30%	0	66	835	5,722	4,201	2,191	0	0	0	0	0	0
40%	0	26	512	3,618	4,152	2,453	0	0	0	0	0	0
50%	0	12	310	1,654	4,195	800	0	0	0	0	0	0
60%	0	9	93	798	1,892	401	0	0	0	0	0	0
70%	0	7	26	238	767	268	0	0	0	0	0	0
80%	0	6	11	66	358	84	0	0	0	0	0	0
90%	0	5	7	27	98	17	0	0	0	0	0	0
<b>Long Term</b>												
Full Simulation Period	0	245	913	1,558	1,731	824	0	0	0	0	0	0
<b>Water Year Types</b>												
Wet	0	642	2,156	2,379	2,170	889	0	0	0	0	0	0
Above Normal	0	133	742	2,305	2,211	1,374	0	0	0	0	0	0
Below Normal	0	44	391	1,738	1,805	1,034	0	0	0	0	0	0
Dry	0	65	232	640	1,518	724	0	0	0	0	0	0
Critical	0	6	79	429	615	120	0	0	0	0	0	0

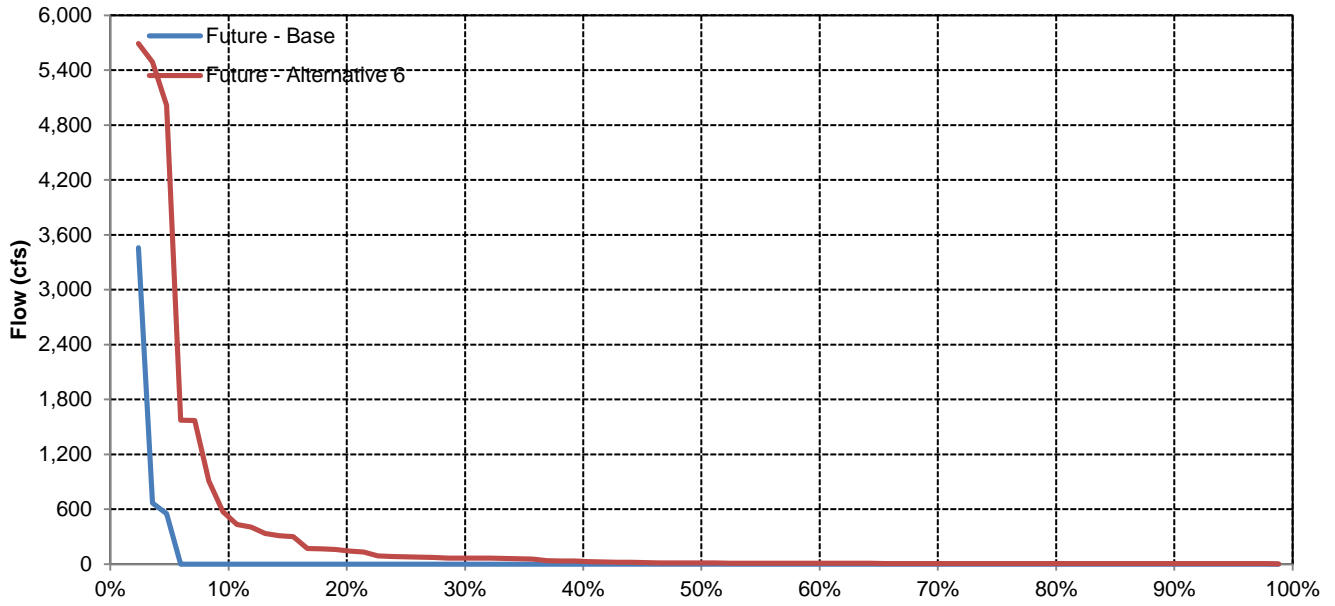


# Fremont Weir Spill to Yolo Bypass

## October

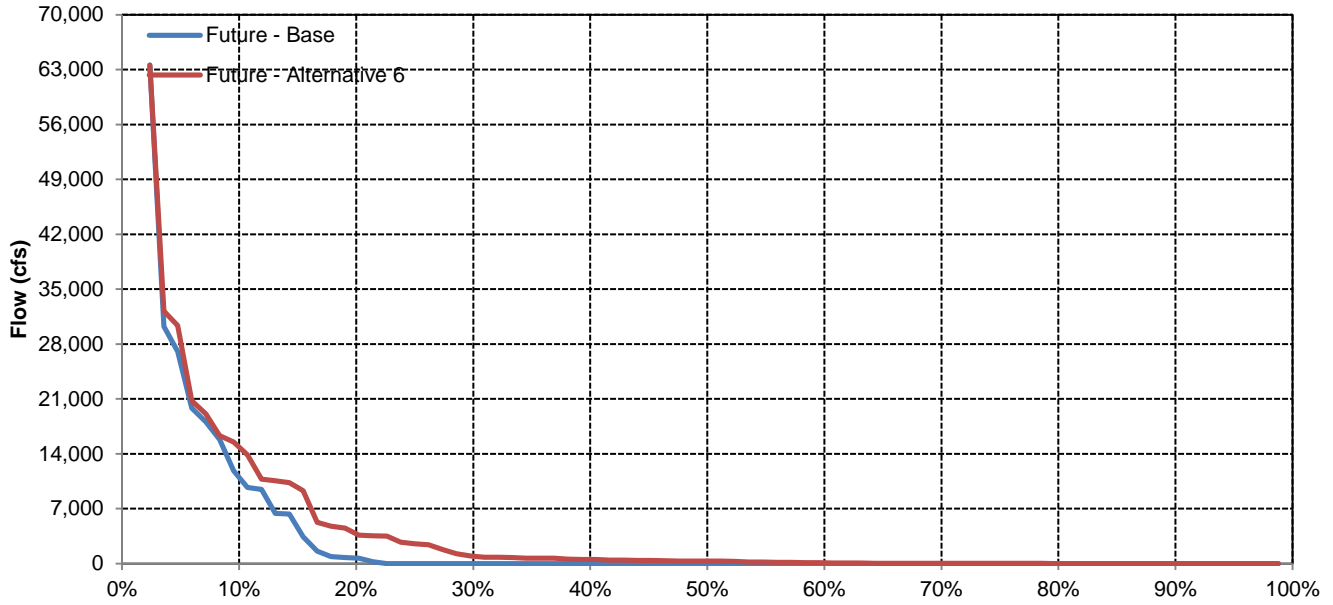


## November

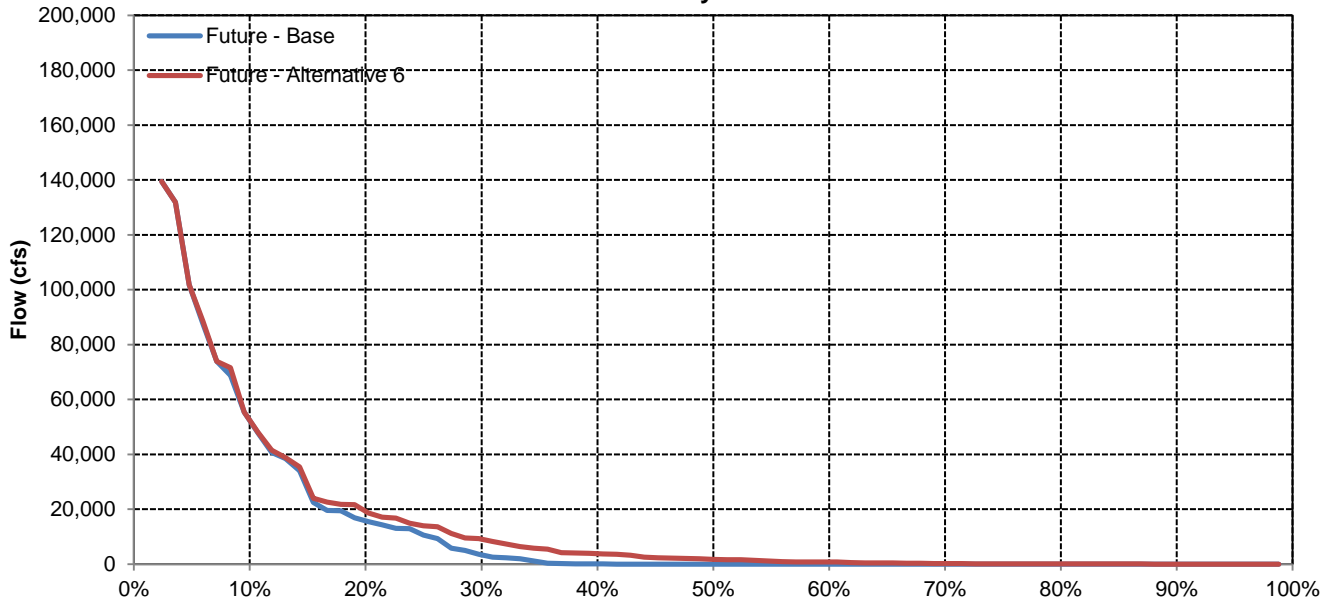


# Fremont Weir Spill to Yolo Bypass

## December

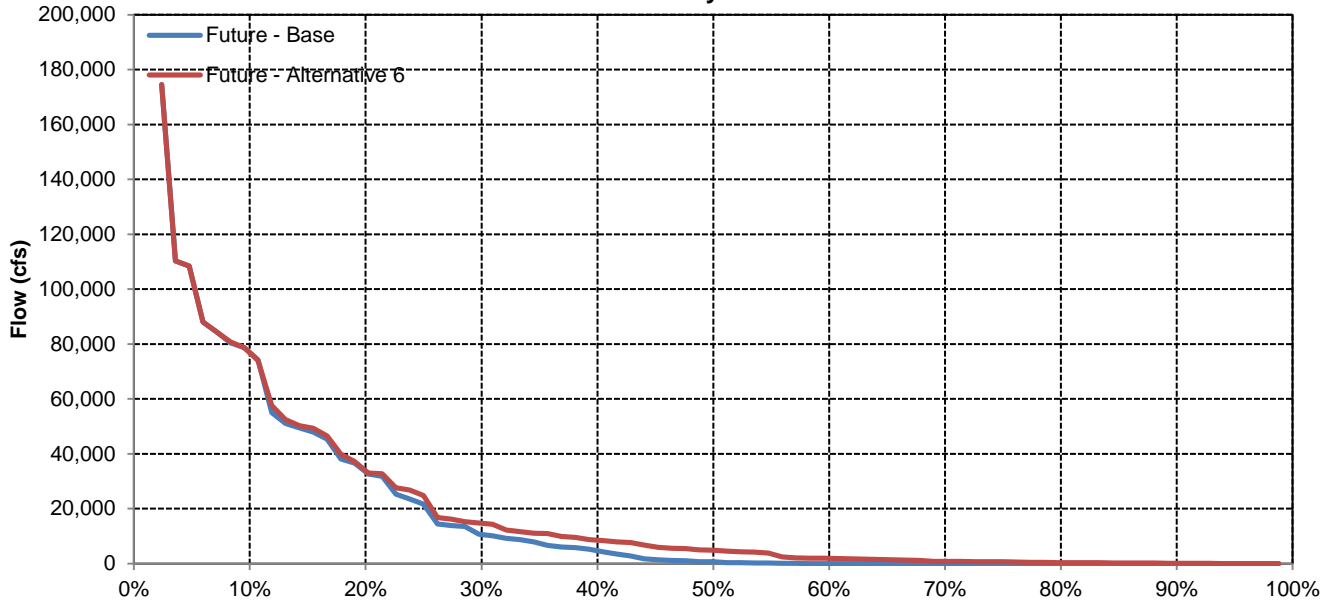


## January

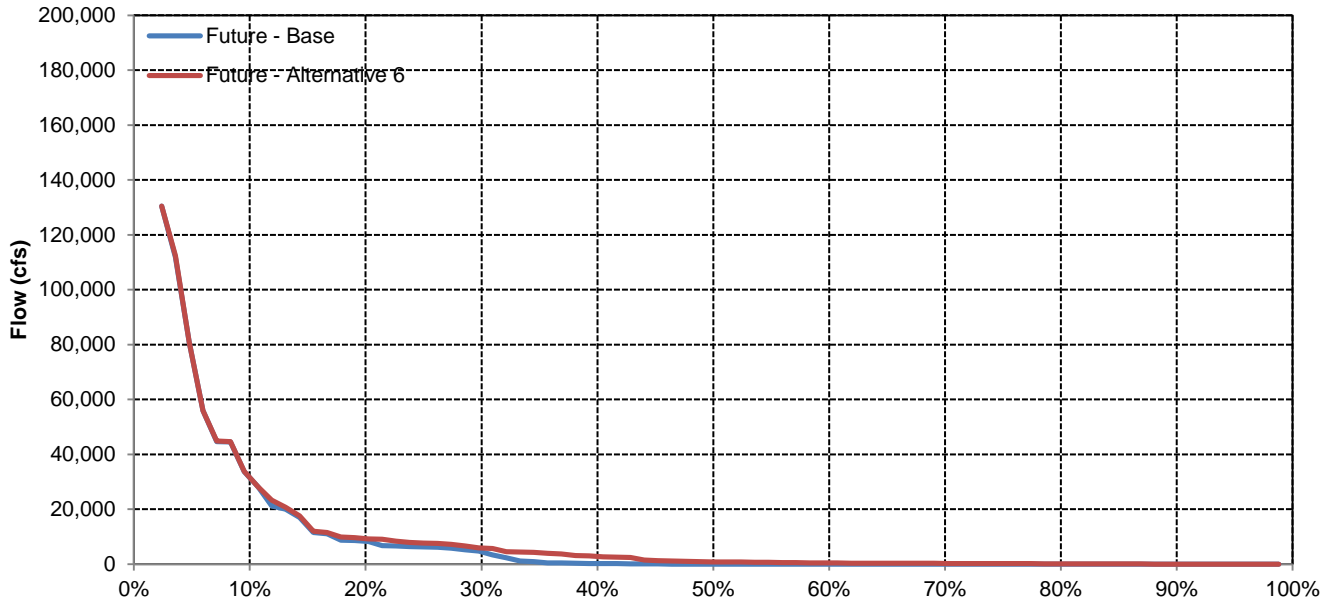


# Fremont Weir Spill to Yolo Bypass

## February

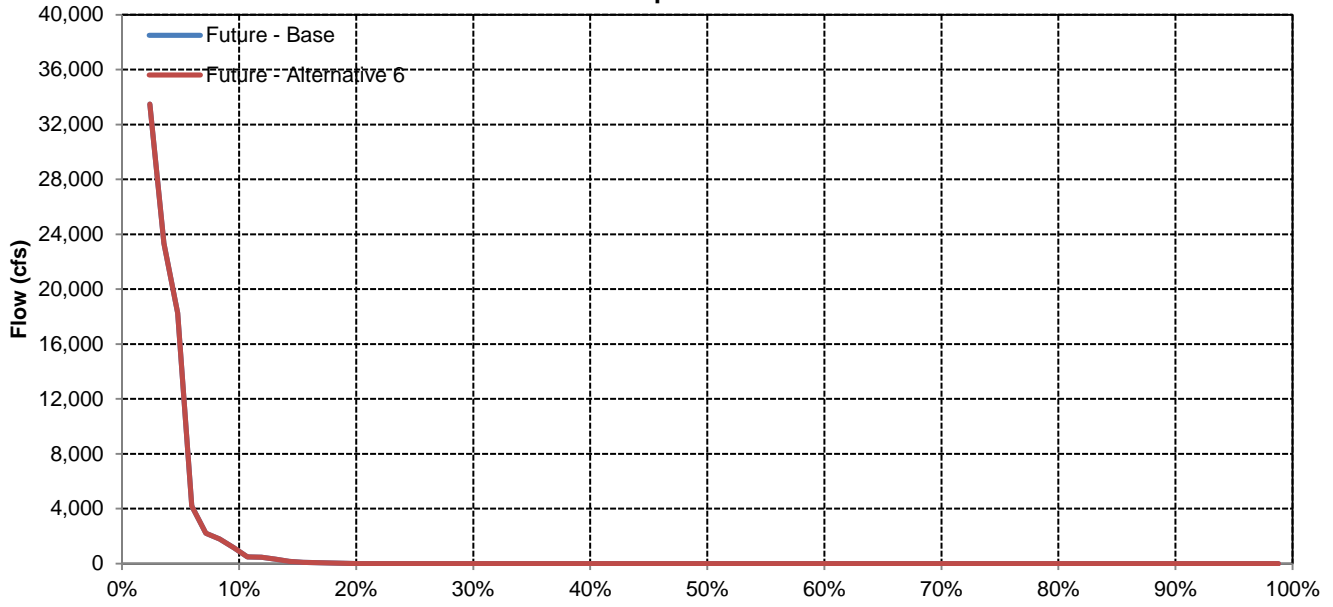


## March

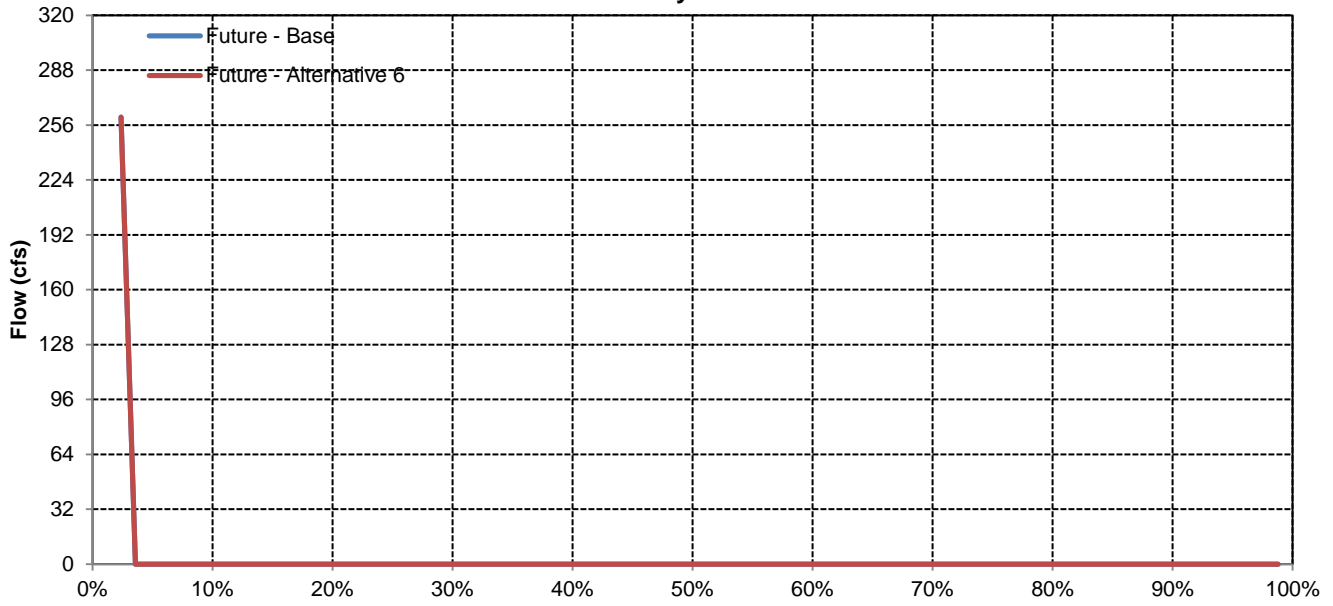


# Fremont Weir Spill to Yolo Bypass

## April

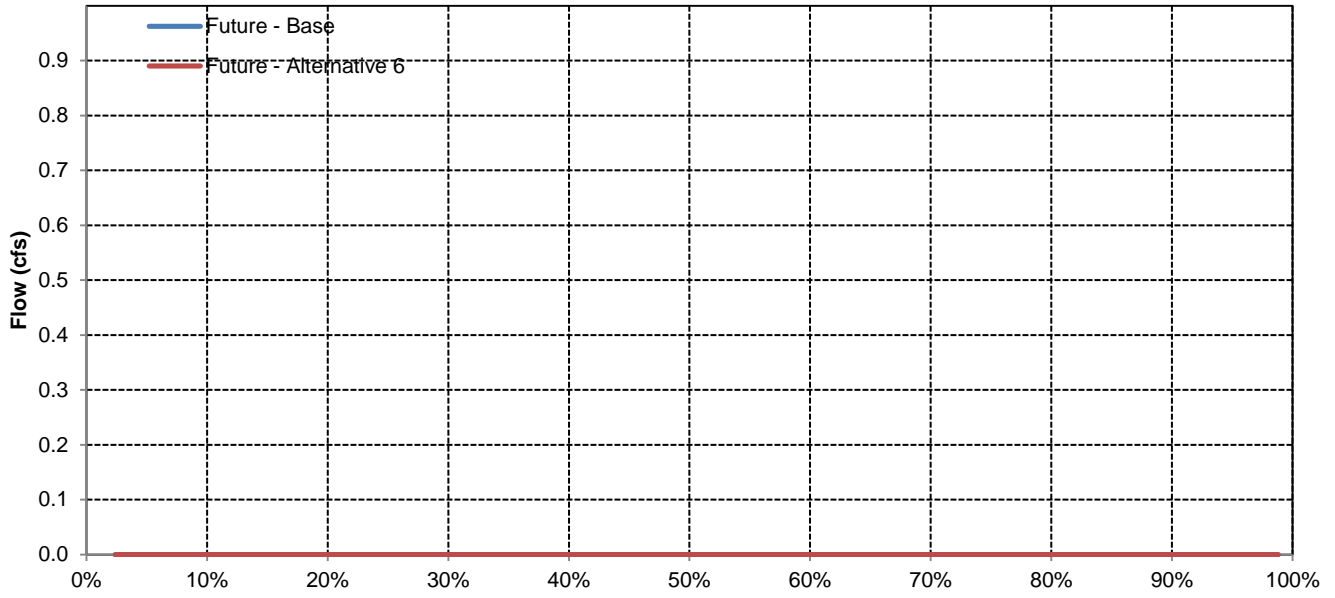


## May

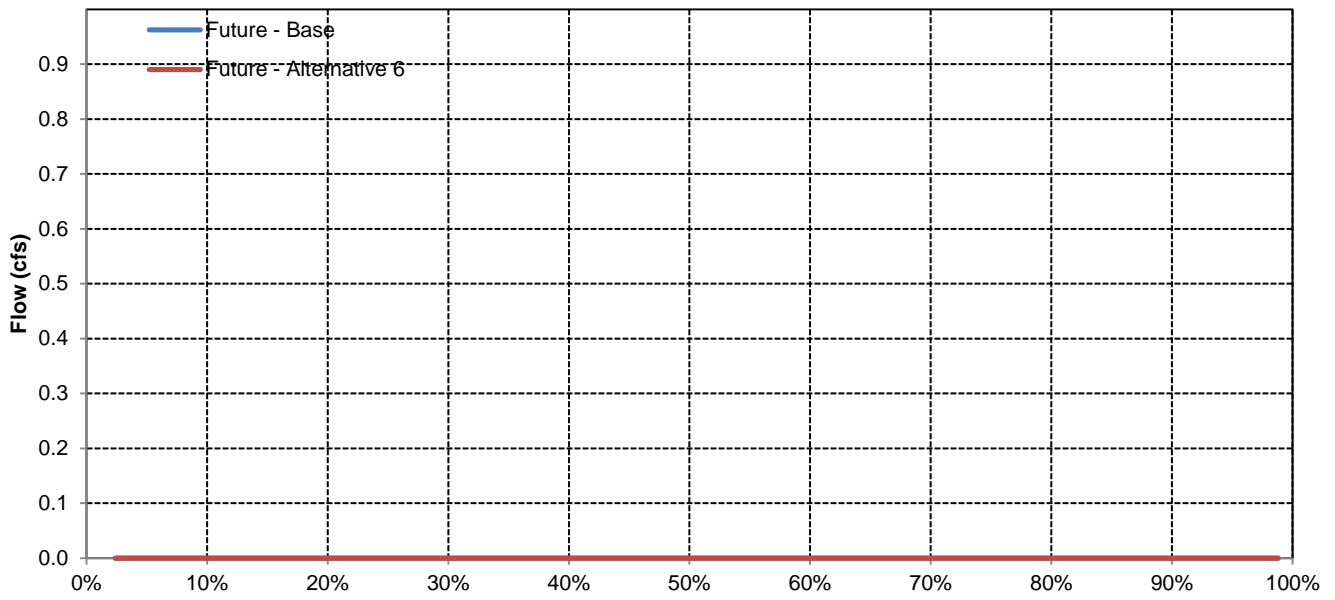


# Fremont Weir Spill to Yolo Bypass

## June

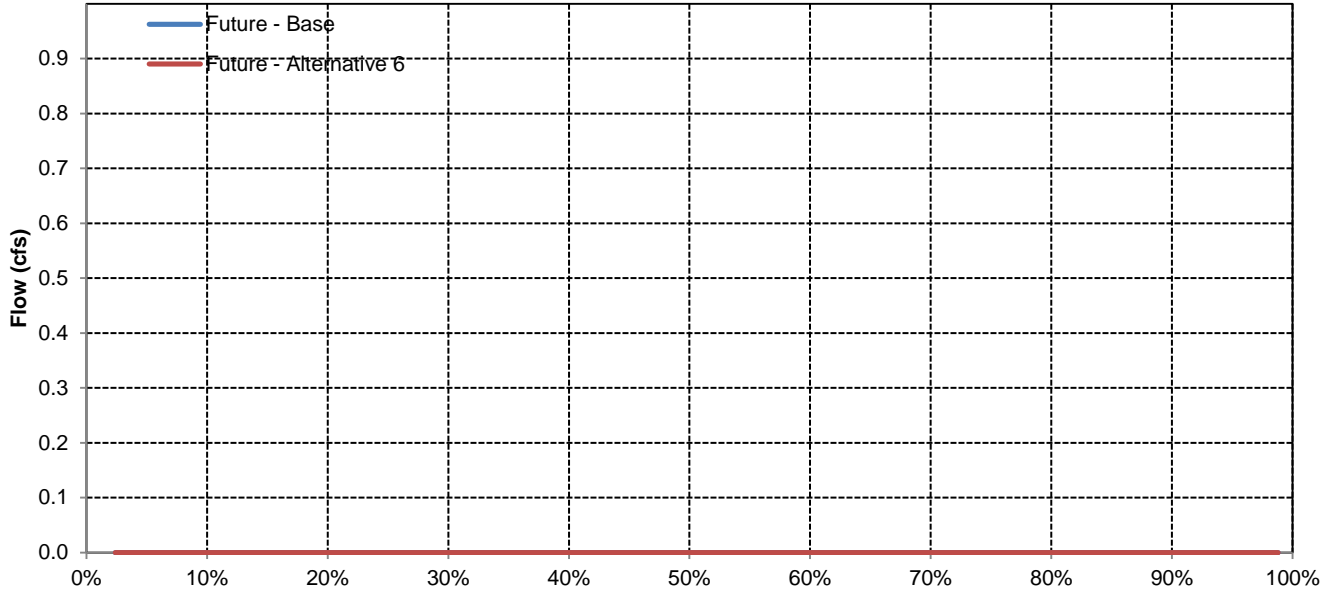


## July

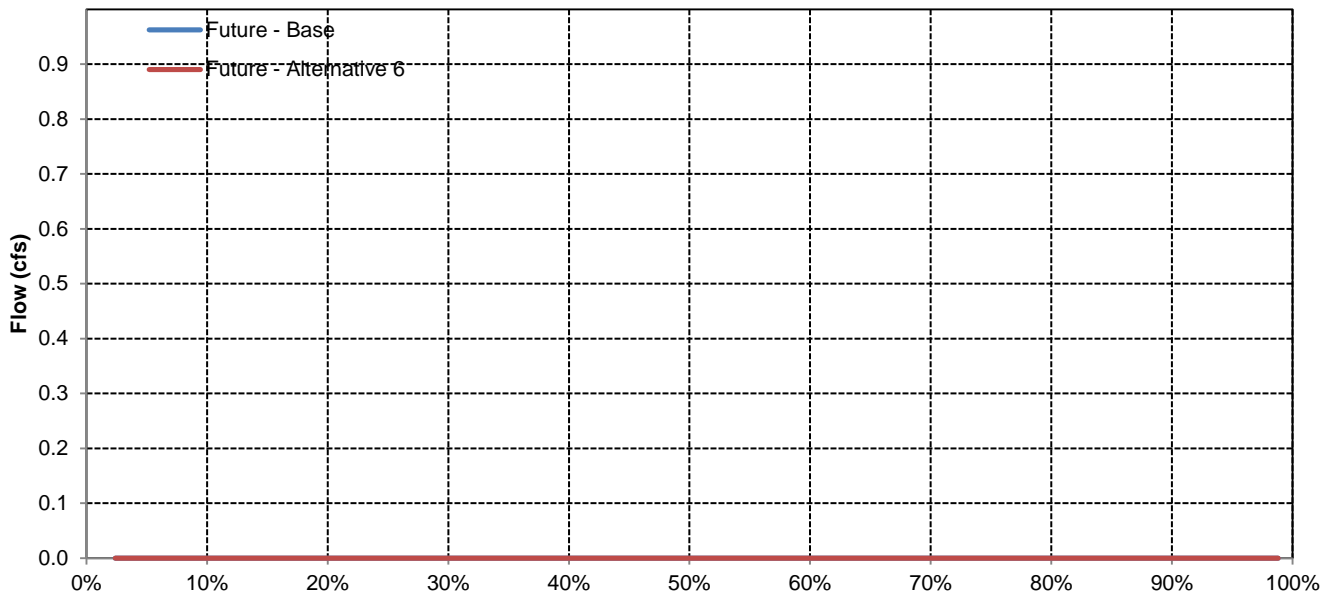


# Fremont Weir Spill to Yolo Bypass

## August



## September



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

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	9,206	10,728	19,728	30,030	35,978	31,028	17,571	10,459	13,675	15,358	11,273	13,824	13,150
Future - Alternative 6	9,233	10,470	18,786	28,495	34,259	30,211	17,563	10,438	13,643	15,362	11,282	13,839	12,835
Difference	27	-258	-942	-1,535	-1,720	-817	-8	-21	-32	4	9	15	-314
Percent Difference	0%	-2%	-5%	-5%	-5%	-3%	0%	0%	0%	0%	0%	0%	-2%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	10,316	14,168	33,582	49,490	54,700	46,345	27,848	12,029	14,178	18,965	12,787	23,425	19,081
Future - Alternative 6	10,340	13,511	31,458	47,160	52,525	45,478	27,829	12,006	14,181	18,962	12,731	23,441	18,589
Difference	24	-657	-2,124	-2,331	-2,175	-867	-19	-23	3	-3	-56	15	-492
Percent Difference	0%	-5%	-6%	-5%	-4%	-2%	0%	0%	0%	0%	0%	0%	-3%
<b>Above Normal</b>													
Future - Base	10,180	10,600	18,133	38,066	50,270	39,380	16,639	11,646	16,362	17,891	12,383	16,466	15,480
Future - Alternative 6	10,257	10,413	17,191	35,811	48,166	38,022	16,643	11,646	16,370	17,870	12,390	16,466	15,075
Difference	76	-187	-942	-2,255	-2,104	-1,358	3	0	8	-21	7	0	-404
Percent Difference	1%	-2%	-5%	-6%	-4%	-3%	0%	0%	0%	0%	0%	0%	-3%
<b>Below Normal</b>													
Future - Base	9,254	9,797	13,924	23,209	25,545	24,426	14,615	10,760	14,962	15,443	10,464	8,153	10,869
Future - Alternative 6	9,274	9,752	13,534	21,475	23,740	23,392	14,615	10,697	14,814	15,448	10,596	8,173	10,570
Difference	20	-45	-390	-1,734	-1,805	-1,034	0	-63	-148	5	132	20	-300
Percent Difference	0%	0%	-3%	-7%	-7%	-4%	0%	-1%	-1%	0%	1%	0%	-3%
<b>Dry</b>													
Future - Base	8,186	9,309	12,579	14,935	22,880	21,608	11,530	9,425	13,173	12,523	10,169	7,654	9,257
Future - Alternative 6	8,218	9,243	12,369	14,295	21,359	20,888	11,522	9,421	13,217	12,537	10,176	7,640	9,076
Difference	31	-66	-210	-639	-1,522	-720	-8	-4	44	15	7	-14	-181
Percent Difference	0%	-1%	-2%	-4%	-7%	-3%	0%	0%	0%	0%	0%	0%	-2%
<b>Critical</b>													
Future - Base	7,552	6,764	9,375	13,050	15,447	13,038	9,429	7,372	9,565	9,855	9,692	7,025	7,121
Future - Alternative 6	7,545	6,757	9,177	12,623	14,829	12,900	9,427	7,350	9,421	9,877	9,712	7,097	7,035
Difference	-7	-8	-198	-427	-617	-138	-1	-22	-144	22	20	72	-86
Percent Difference	0%	0%	-2%	-3%	-4%	-1%	0%	0%	-2%	0%	0%	1%	-1%

Sacramento River below Fremont Weir

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,897	16,169	45,741	61,582	63,120	58,501	40,381	14,264	19,317	20,306	15,937	23,746
20%	10,789	13,042	30,986	52,000	59,936	50,976	24,134	12,203	18,036	19,458	13,060	23,231
30%	9,787	11,409	19,616	42,207	50,229	42,750	16,494	11,100	17,030	17,789	11,135	21,443
40%	9,396	10,373	16,258	31,518	42,508	33,844	14,502	10,319	14,771	17,206	10,721	14,835
50%	9,004	9,580	14,683	22,826	32,845	25,125	12,720	9,227	12,760	16,197	10,366	9,351
60%	8,421	8,564	12,034	17,536	23,964	20,148	10,605	8,847	11,697	14,641	10,117	8,213
70%	7,953	7,746	10,580	14,086	19,326	17,034	9,863	8,329	10,907	12,994	9,872	7,627
80%	6,644	6,697	8,469	11,527	15,457	13,796	9,349	7,855	9,488	11,435	9,571	7,237
90%	6,027	5,916	7,135	10,183	12,838	10,799	8,626	7,207	8,168	9,224	9,229	6,510
<b>Long Term</b>												
Full Simulation Period	9,206	10,728	19,728	30,030	35,978	31,028	17,571	10,459	13,675	15,358	11,273	13,824
<b>Water Year Types</b>												
Wet	10,316	14,168	33,582	49,490	54,700	46,345	27,848	12,029	14,178	18,965	12,787	23,425
Above Normal	10,180	10,600	18,133	38,066	50,270	39,380	16,639	11,646	16,362	17,891	12,383	16,466
Below Normal	9,254	9,797	13,924	23,209	25,545	24,426	14,615	10,760	14,962	15,443	10,464	8,153
Dry	8,186	9,309	12,579	14,935	22,880	21,608	11,530	9,425	13,173	12,523	10,169	7,654
Critical	7,552	6,764	9,375	13,050	15,447	13,038	9,429	7,372	9,565	9,855	9,692	7,025

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	11,897	15,734	42,127	60,967	63,130	58,156	40,381	14,264	19,320	20,306	16,331	24,040
20%	10,793	12,916	27,821	48,721	58,348	49,949	24,157	12,202	18,228	19,460	13,064	23,240
30%	9,969	11,363	18,799	37,127	45,363	40,334	16,491	10,975	17,026	17,792	11,211	21,444
40%	9,437	10,363	15,849	27,947	39,921	30,675	14,501	10,320	14,955	17,269	10,713	14,835
50%	9,004	9,571	14,300	20,990	28,782	24,590	12,720	9,101	12,754	16,194	10,324	9,345
60%	8,421	8,556	11,891	16,730	22,085	19,734	10,605	8,843	11,547	14,786	10,115	8,291
70%	8,050	7,737	10,688	13,939	18,575	16,656	9,863	8,329	10,709	12,999	9,868	7,629
80%	6,640	6,617	8,359	11,498	15,160	13,658	9,354	7,777	9,412	11,434	9,571	7,234
90%	6,029	5,911	7,017	10,145	12,771	10,773	8,626	7,207	8,170	9,225	9,230	6,508
<b>Long Term</b>												
Full Simulation Period	9,233	10,470	18,786	28,495	34,259	30,211	17,563	10,438	13,643	15,362	11,282	13,839
<b>Water Year Types</b>												
Wet	10,340	13,511	31,458	47,160	52,525	45,478	27,829	12,006	14,181	18,962	12,731	23,441
Above Normal	10,257	10,413	17,191	35,811	48,166	38,022	16,643	11,646	16,370	17,870	12,390	16,466
Below Normal	9,274	9,752	13,534	21,475	23,740	23,392	14,615	10,697	14,814	15,448	10,596	8,173
Dry	8,218	9,243	12,369	14,295	21,359	20,888	11,522	9,421	13,217	12,537	10,176	7,640
Critical	7,545	6,757	9,177	12,623	14,829	12,900	9,427	7,350	9,421	9,877	9,712	7,097

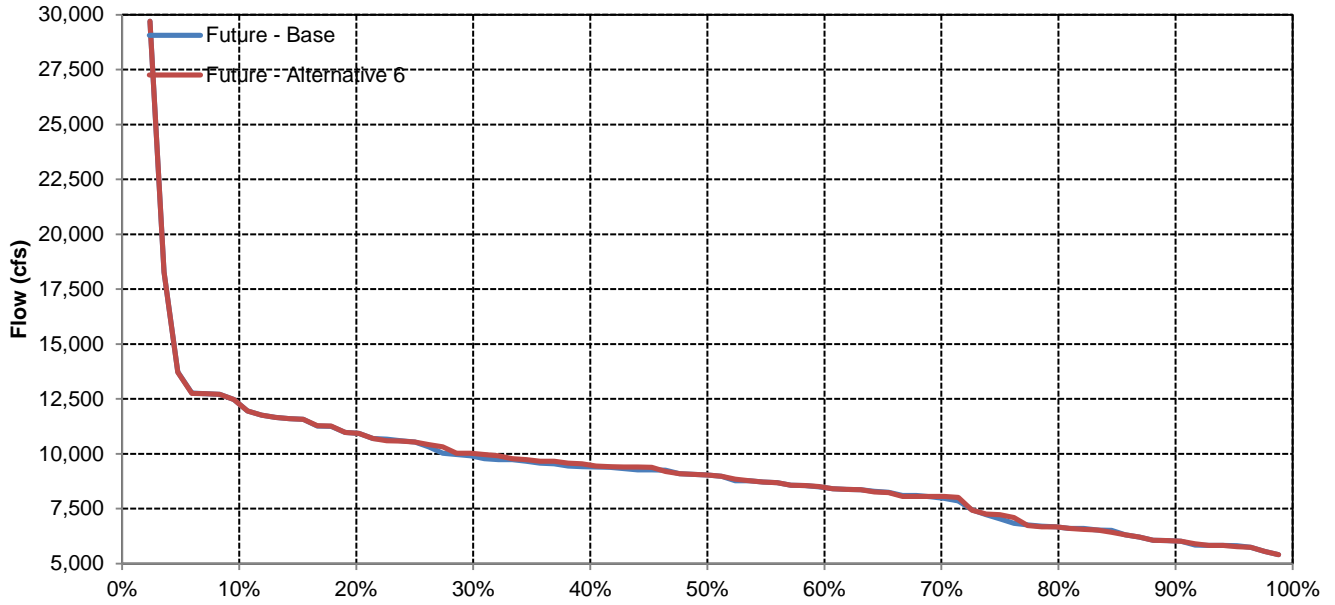
Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	-435	-3,614	-615	10	-345	1	0	3	-1	394	294
20%	4	-126	-3,165	-3,278	-1,588	-1,027	23	0	192	2	4	9
30%	182	-46	-817	-5,079	-4,866	-2,416	-4	-125	-3	3	76	1
40%	41	-10	-409	-3,571	-2,587	-3,169	-1	1	184	63	-8	1
50%	0	-9	-384	-1,836	-4,063	-535	0	-126	-6	-3	-42	-6
60%	0	-8	-143	-806	-1,879	-414	0	-4	-150	145	-3	79
70%	98	-9	108	-147	-751	-378	0	0	-198	5	-4	1
80%	-4	-80	-111	-29	-297	-138	5	-78	-76	-1	0	-3
90%	2	-5	-118	-38	-67	-27	0	0	3	1	1	-1
<b>Long Term</b>												
Full Simulation Period	27	-258	-942	-1,535	-1,720	-817	-8	-21	-32	4	9	15
<b>Water Year Types</b>												
Wet	24	-657	-2,124	-2,331	-2,175	-867	-19	-23	3	-3	-56	15
Above Normal	76	-187	-942	-2,255	-2,104	-1,358	3	0	8	-21	7	0
Below Normal	20	-45	-390	-1,734	-1,805	-1,034	0	-63	-148	5	132	20
Dry	31	-66	-210	-639	-1,522	-720	-8	-4	44	15	7	-14
Critical	-7	-8	-198	-427	-617	-138	-1	-22	-144	22	20	72

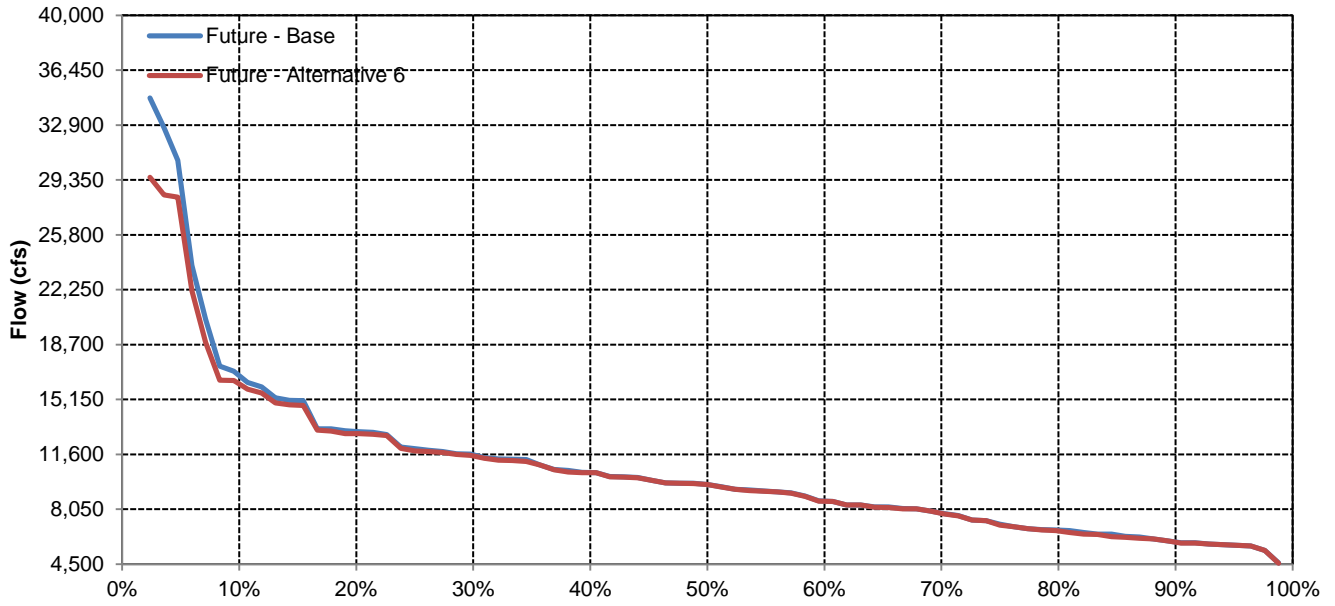


# Sacramento River below Fremont Weir

## October

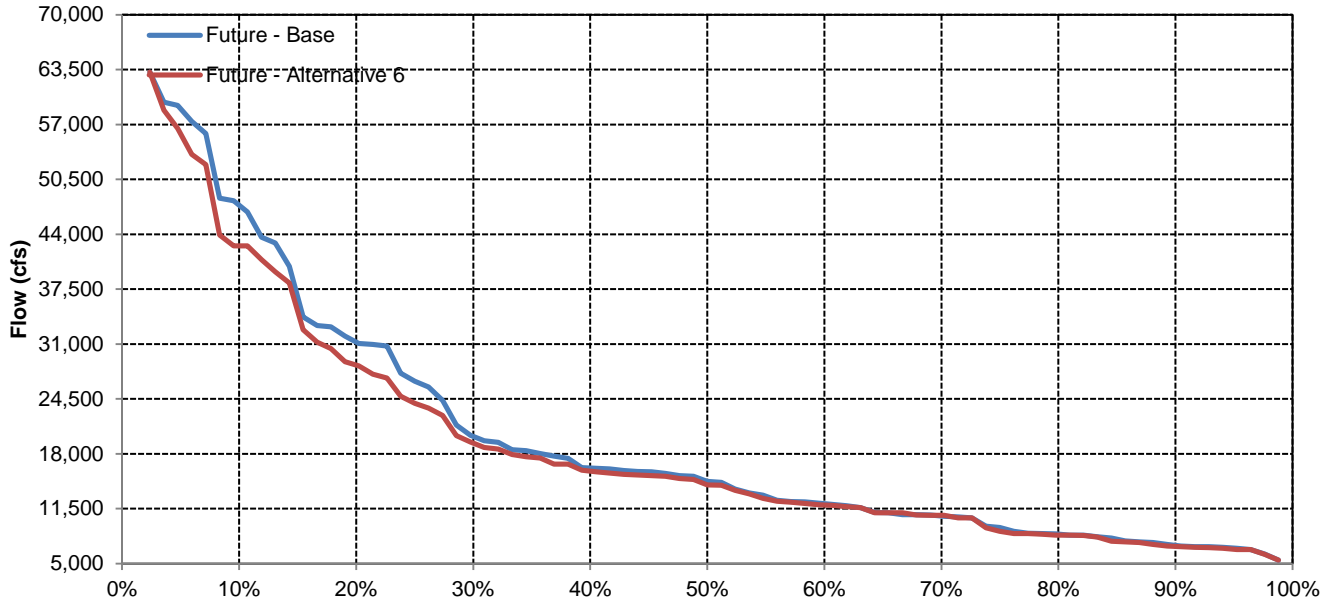


## November

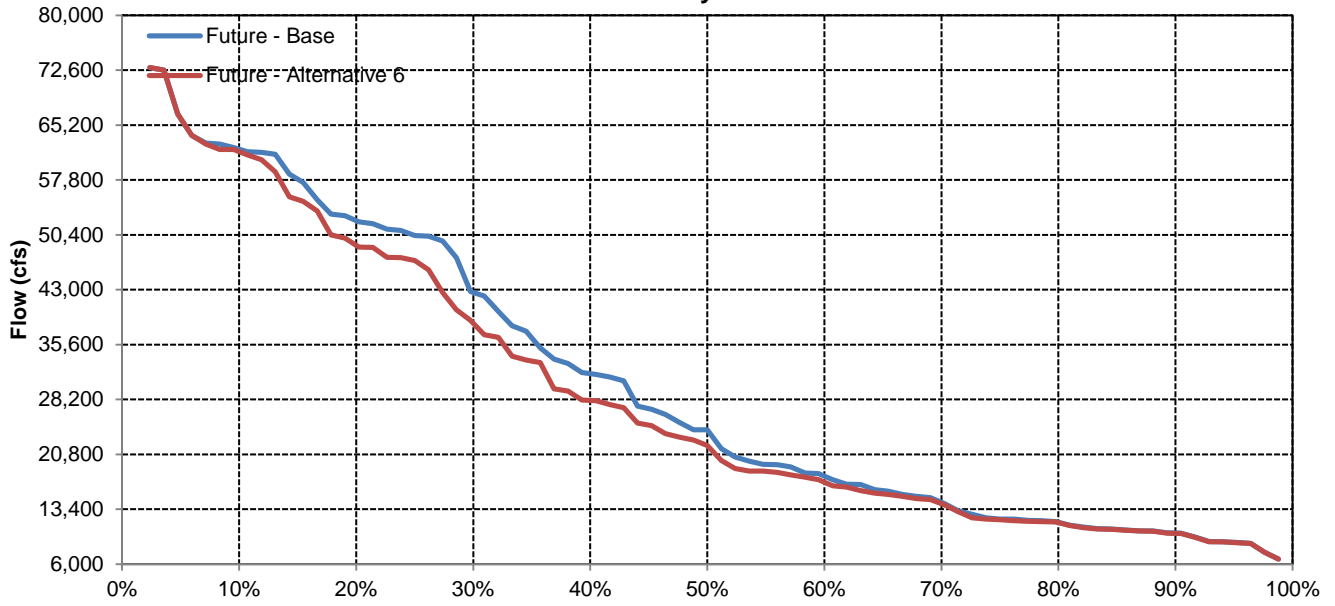


# Sacramento River below Fremont Weir

## December

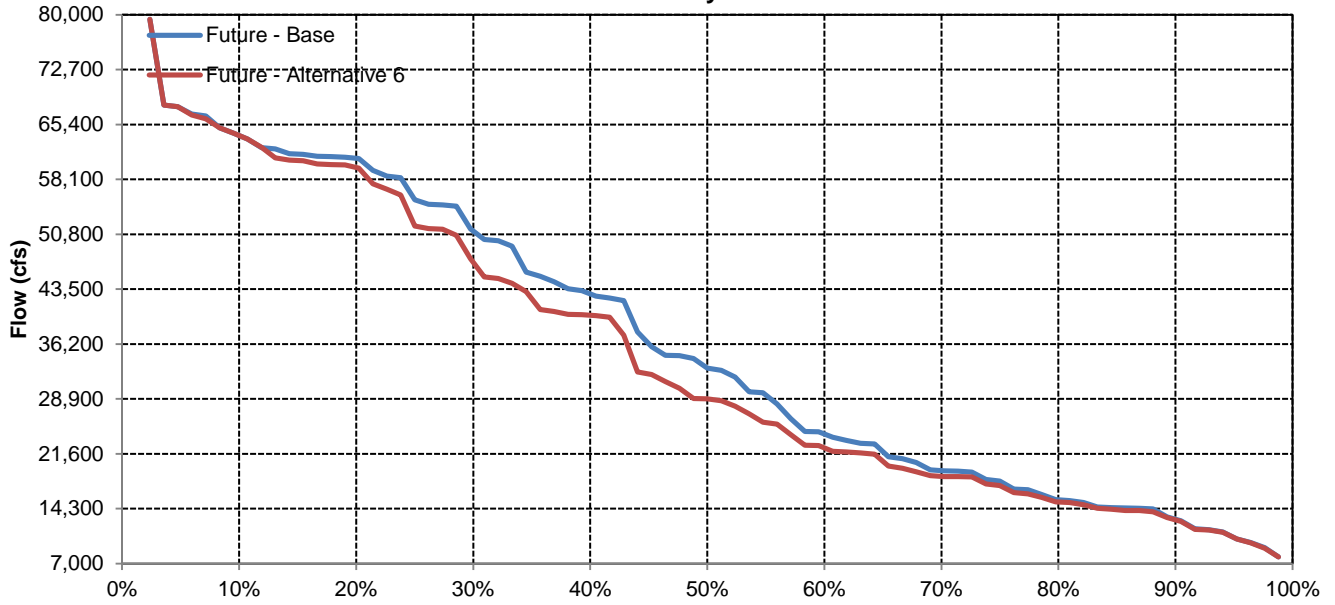


## January

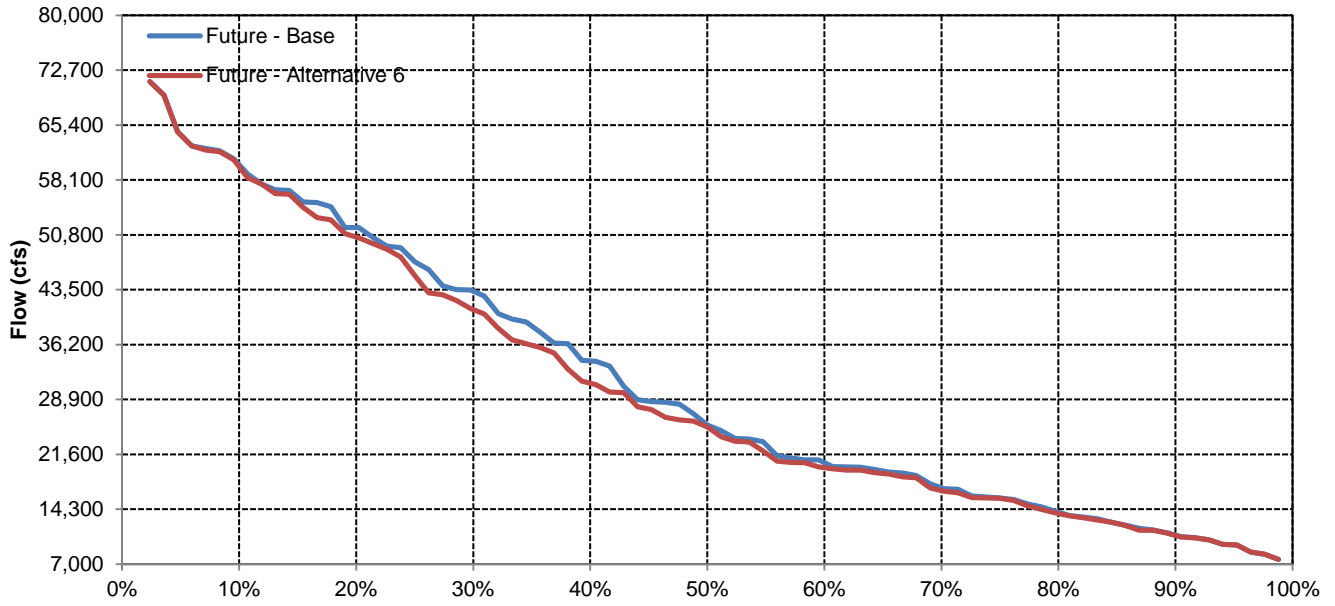


# Sacramento River below Fremont Weir

## February

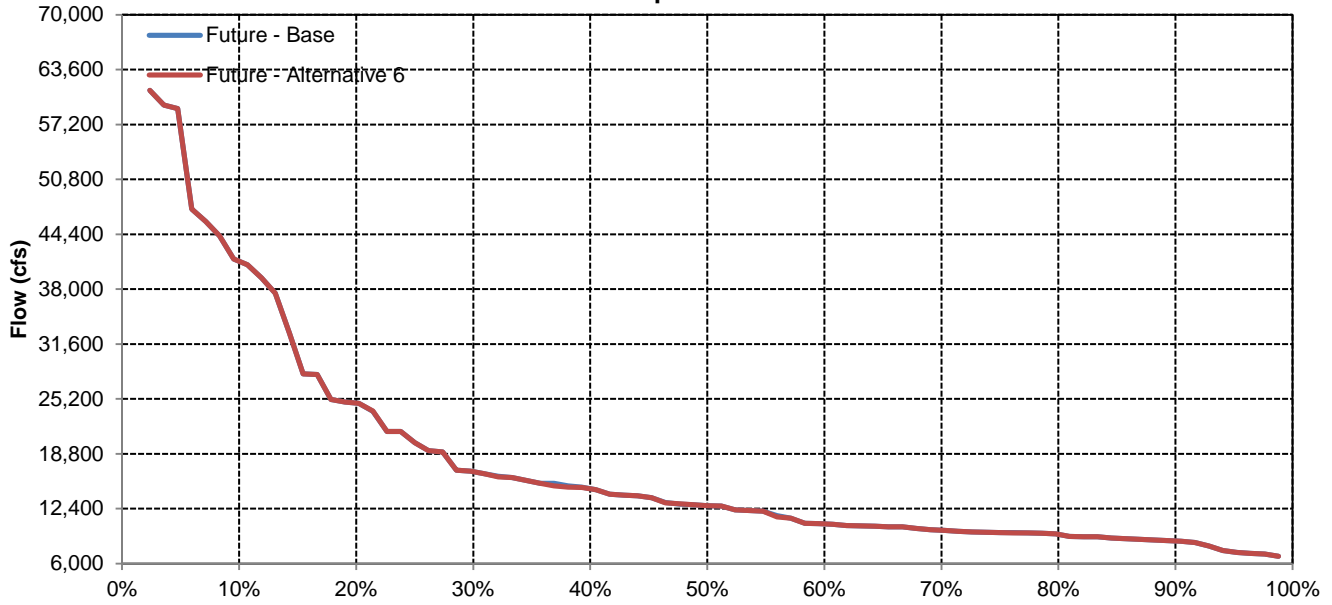


## March

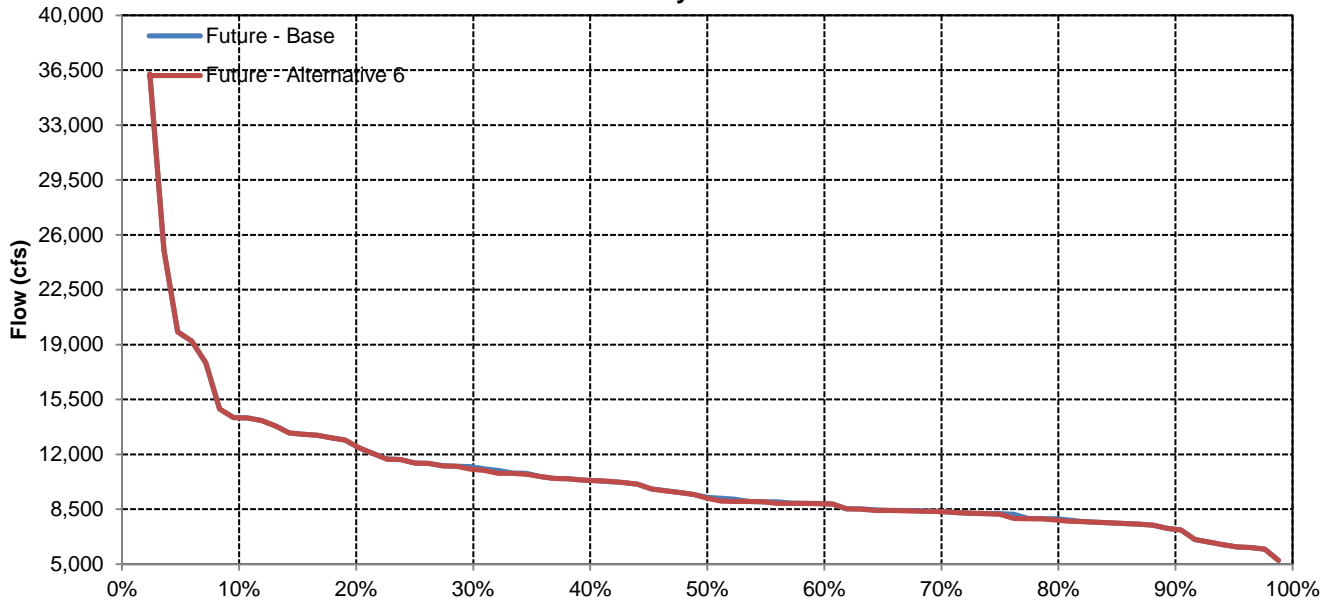


# Sacramento River below Fremont Weir

## April

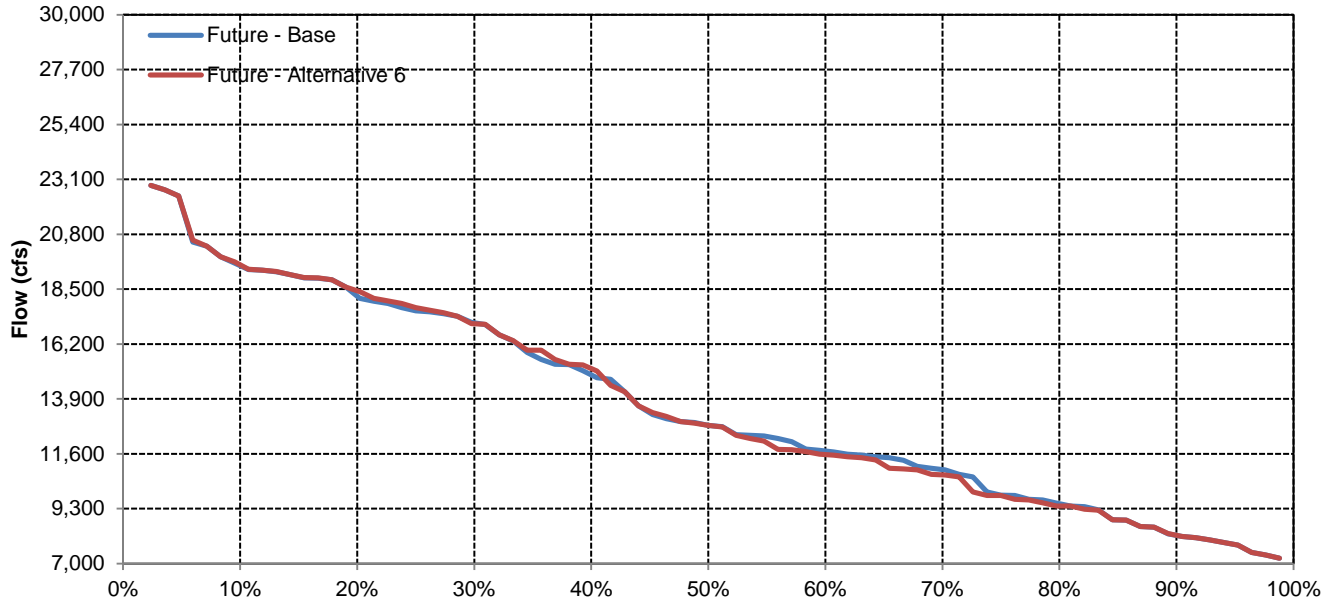


## May

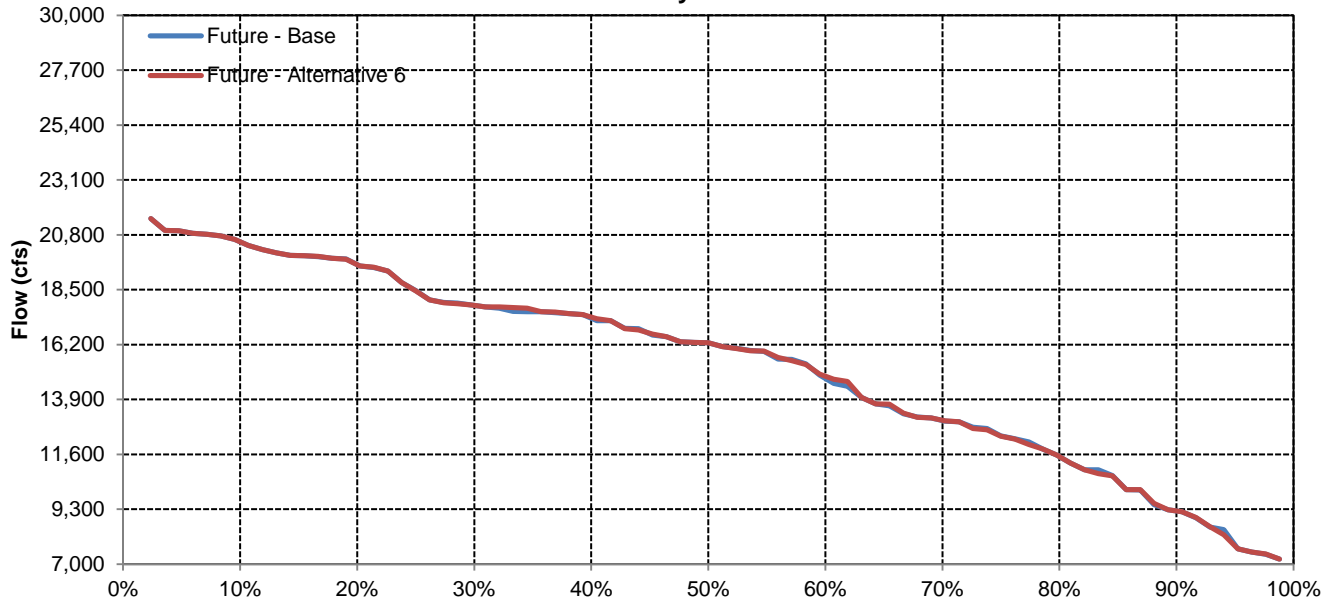


# Sacramento River below Fremont Weir

## June

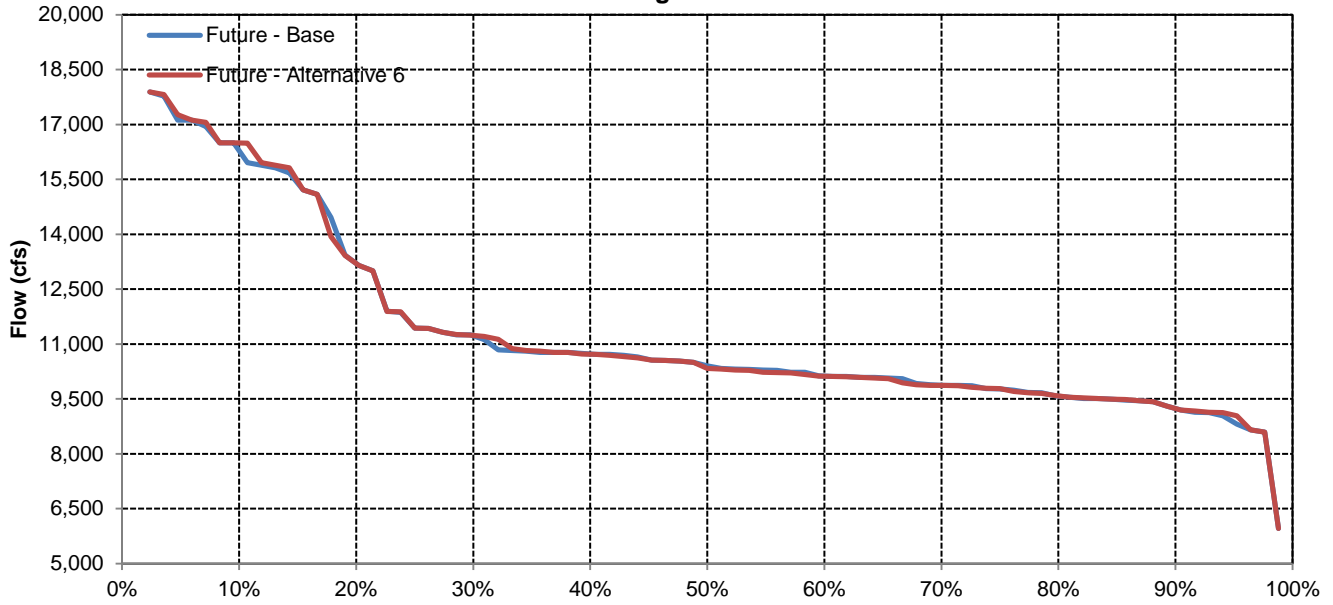


## July

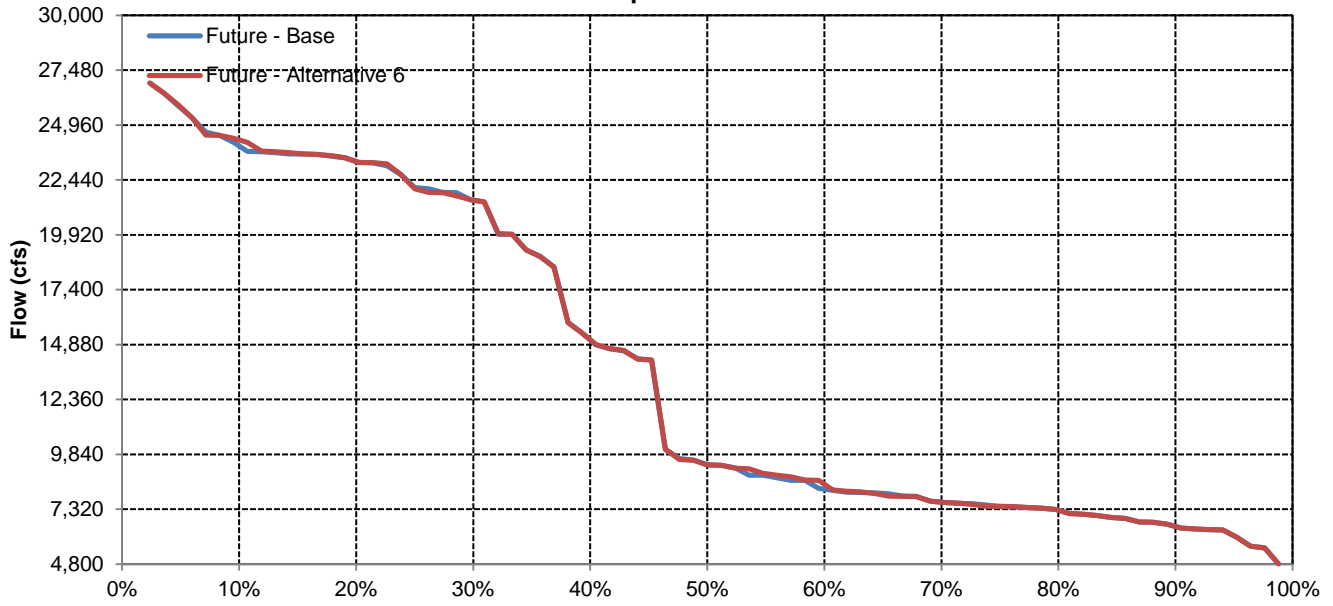


# Sacramento River below Fremont Weir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	1,111	1,121	1,232	1,403	1,575	1,712	1,826	1,701	1,582	1,421	1,271	1,160
Future - Alternative 6	1,112	1,123	1,234	1,405	1,577	1,713	1,828	1,703	1,583	1,422	1,273	1,161
Difference	1	2	2	2	2	1	1	1	1	1	2	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	1,184	1,226	1,437	1,697	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Future - Alternative 6	1,186	1,227	1,438	1,697	1,907	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Difference	1	1	1	1	1	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	1,184	1,161	1,273	1,559	1,813	1,988	2,142	1,982	1,871	1,704	1,558	1,426
Future - Alternative 6	1,185	1,170	1,282	1,568	1,820	1,995	2,148	1,988	1,877	1,711	1,564	1,433
Difference	2	9	9	9	7	7	7	7	7	7	7	7
Percent Difference	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	1,148	1,147	1,220	1,391	1,539	1,694	1,829	1,709	1,610	1,441	1,284	1,186
Future - Alternative 6	1,147	1,148	1,221	1,392	1,539	1,695	1,830	1,710	1,611	1,442	1,285	1,189
Difference	-1	0	1	1	1	1	1	1	1	1	1	3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>												
Future - Base	1,094	1,097	1,151	1,222	1,376	1,529	1,615	1,477	1,361	1,178	1,006	915
Future - Alternative 6	1,094	1,097	1,151	1,221	1,375	1,528	1,614	1,476	1,360	1,176	1,004	914
Difference	0	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	875	866	898	942	1,012	1,077	1,102	1,022	960	834	714	656
Future - Alternative 6	880	870	901	945	1,015	1,081	1,106	1,027	963	837	720	659
Difference	5	4	3	3	4	4	4	4	3	3	7	3
Percent Difference	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%

Trinity Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,479	1,484	1,672	1,900	2,000	2,100	2,298	2,170	1,995	1,863	1,717	1,564
20%	1,385	1,408	1,506	1,818	2,000	2,100	2,233	2,088	1,943	1,791	1,642	1,492
30%	1,303	1,305	1,445	1,638	1,926	2,068	2,167	2,006	1,865	1,697	1,520	1,382
40%	1,248	1,223	1,368	1,593	1,752	1,981	2,113	1,903	1,752	1,562	1,407	1,270
50%	1,152	1,181	1,273	1,421	1,599	1,771	1,933	1,771	1,616	1,443	1,289	1,178
60%	1,079	1,102	1,198	1,304	1,496	1,662	1,745	1,636	1,564	1,378	1,236	1,106
70%	968	957	1,102	1,205	1,371	1,486	1,591	1,531	1,412	1,229	1,083	1,000
80%	775	791	913	1,023	1,256	1,390	1,496	1,376	1,279	1,090	931	846
90%	627	632	678	825	933	1,013	1,056	1,036	957	837	680	625
<b>Long Term</b>												
Full Simulation Period	1,111	1,121	1,232	1,403	1,575	1,712	1,826	1,701	1,582	1,421	1,271	1,160
<b>Water Year Types</b>												
Wet	1,184	1,226	1,437	1,697	1,906	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Above Normal	1,184	1,161	1,273	1,559	1,813	1,988	2,142	1,982	1,871	1,704	1,558	1,426
Below Normal	1,148	1,147	1,220	1,391	1,539	1,694	1,829	1,709	1,610	1,441	1,284	1,186
Dry	1,094	1,097	1,151	1,222	1,376	1,529	1,615	1,477	1,361	1,178	1,006	915
Critical	875	866	898	942	1,012	1,077	1,102	1,022	960	834	714	656

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,479	1,484	1,672	1,900	2,000	2,100	2,298	2,170	1,995	1,863	1,717	1,564
20%	1,386	1,408	1,506	1,817	2,000	2,100	2,233	2,088	1,941	1,791	1,642	1,492
30%	1,303	1,305	1,440	1,637	1,926	2,068	2,167	2,006	1,865	1,697	1,520	1,382
40%	1,255	1,233	1,370	1,593	1,752	1,980	2,113	1,903	1,757	1,562	1,416	1,299
50%	1,145	1,180	1,275	1,424	1,597	1,781	1,944	1,771	1,615	1,443	1,284	1,173
60%	1,079	1,101	1,197	1,310	1,510	1,670	1,748	1,638	1,550	1,384	1,242	1,105
70%	970	969	1,100	1,203	1,372	1,539	1,590	1,531	1,412	1,231	1,084	1,000
80%	775	791	910	1,021	1,250	1,393	1,527	1,390	1,279	1,090	929	847
90%	627	632	679	847	934	1,013	1,057	1,037	957	837	677	625
<b>Long Term</b>												
Full Simulation Period	1,112	1,123	1,234	1,405	1,577	1,713	1,828	1,703	1,583	1,422	1,273	1,161
<b>Water Year Types</b>												
Wet	1,186	1,227	1,438	1,697	1,907	2,037	2,189	2,064	1,903	1,750	1,604	1,455
Above Normal	1,185	1,170	1,282	1,568	1,820	1,995	2,148	1,988	1,877	1,711	1,564	1,433
Below Normal	1,147	1,148	1,221	1,392	1,539	1,695	1,830	1,710	1,611	1,442	1,285	1,189
Dry	1,094	1,097	1,151	1,221	1,375	1,528	1,614	1,476	1,360	1,176	1,004	914
Critical	880	870	901	945	1,015	1,081	1,106	1,027	963	837	720	659

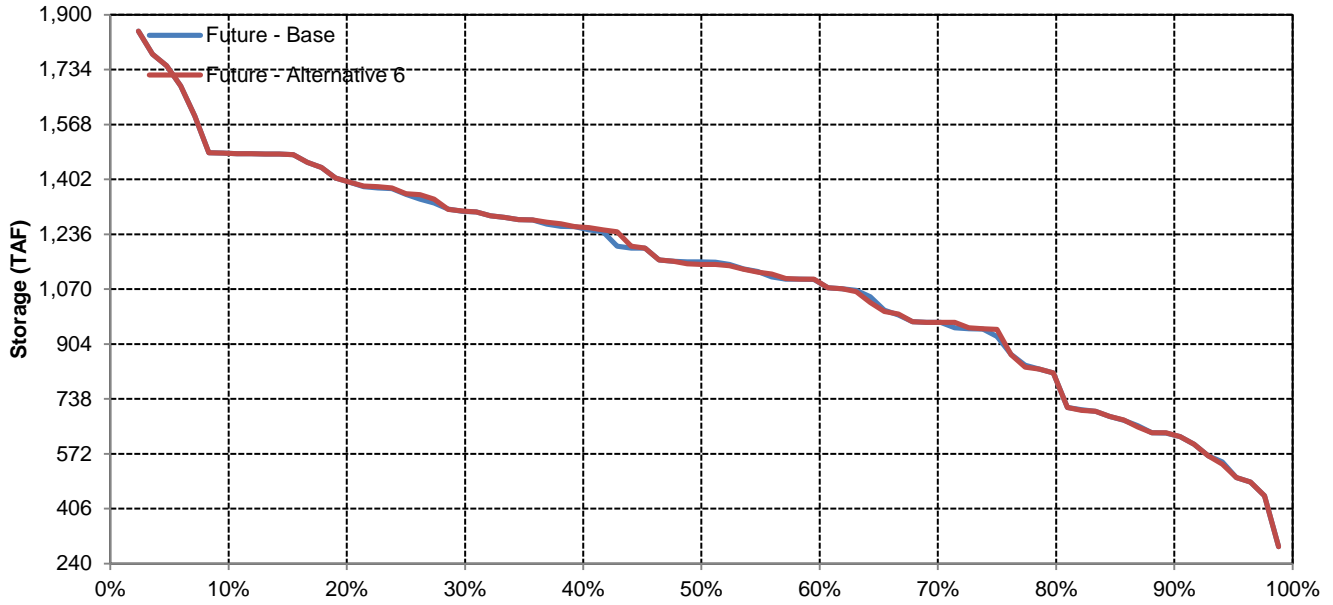
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	1	0	0	0	0	0	0	0	-3	0	0	0
30%	0	0	-5	0	0	0	1	0	0	0	0	0
40%	6	10	2	0	0	0	0	1	5	0	9	28
50%	-7	-1	2	3	-2	11	11	0	-1	0	-5	-6
60%	0	-1	-1	5	14	8	3	1	-14	6	6	-1
70%	2	12	-2	-1	1	53	0	0	0	2	2	0
80%	0	0	-2	-2	-6	3	31	14	0	0	-2	1
90%	0	0	1	23	0	0	1	1	0	0	-3	0
<b>Long Term</b>												
Full Simulation Period	1	2	2	2	2	1	1	1	1	1	2	1
<b>Water Year Types</b>												
Wet	1	1	1	1	1	0	0	0	0	0	0	0
Above Normal	2	9	9	9	7	7	7	7	7	7	7	7
Below Normal	-1	0	1	1	1	1	1	1	1	1	1	3
Dry	0	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2
Critical	5	4	3	3	4	4	4	4	3	3	7	3

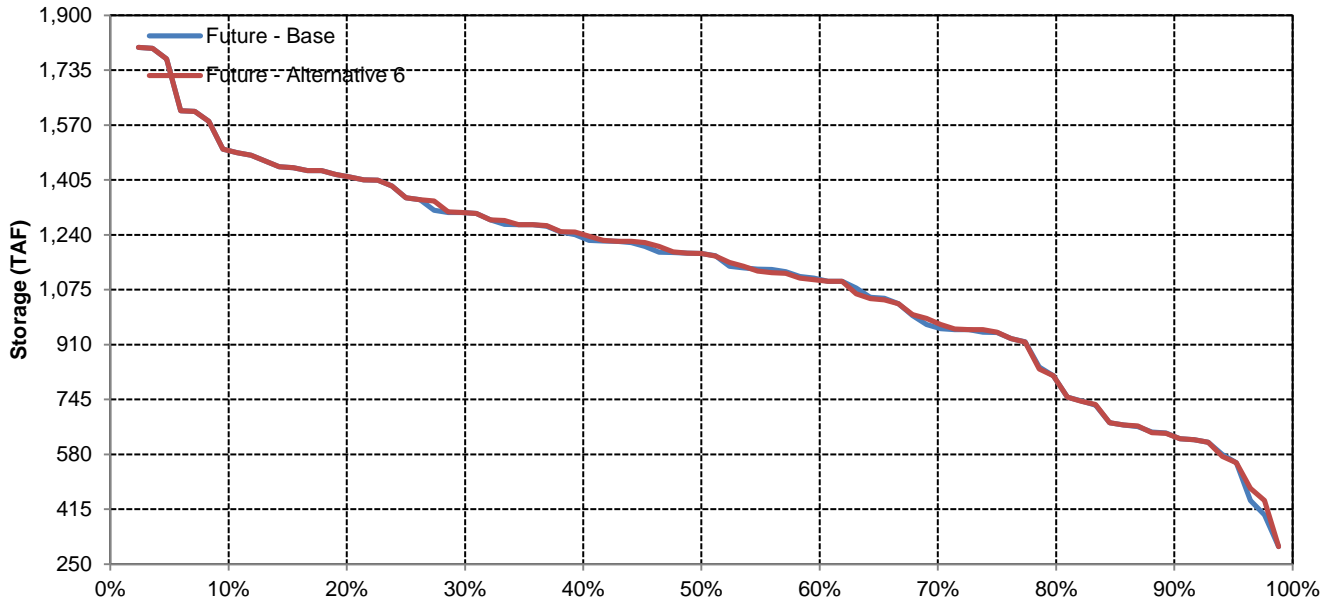


# Trinity Reservoir

## October

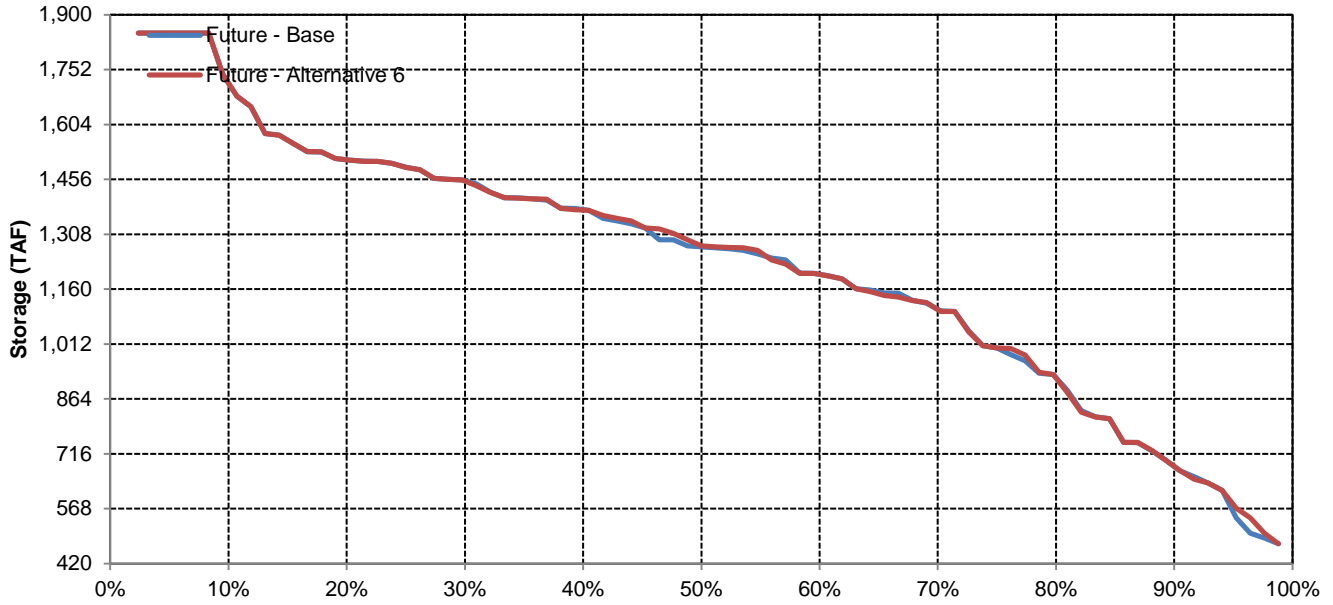


## November

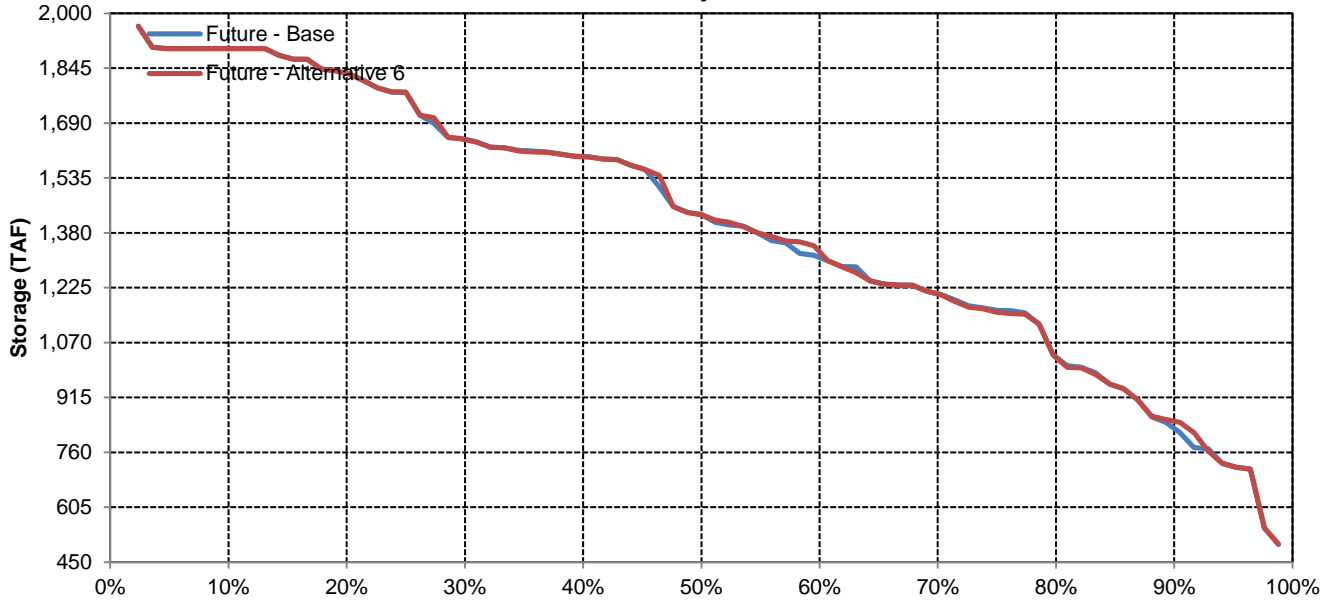


# Trinity Reservoir

## December

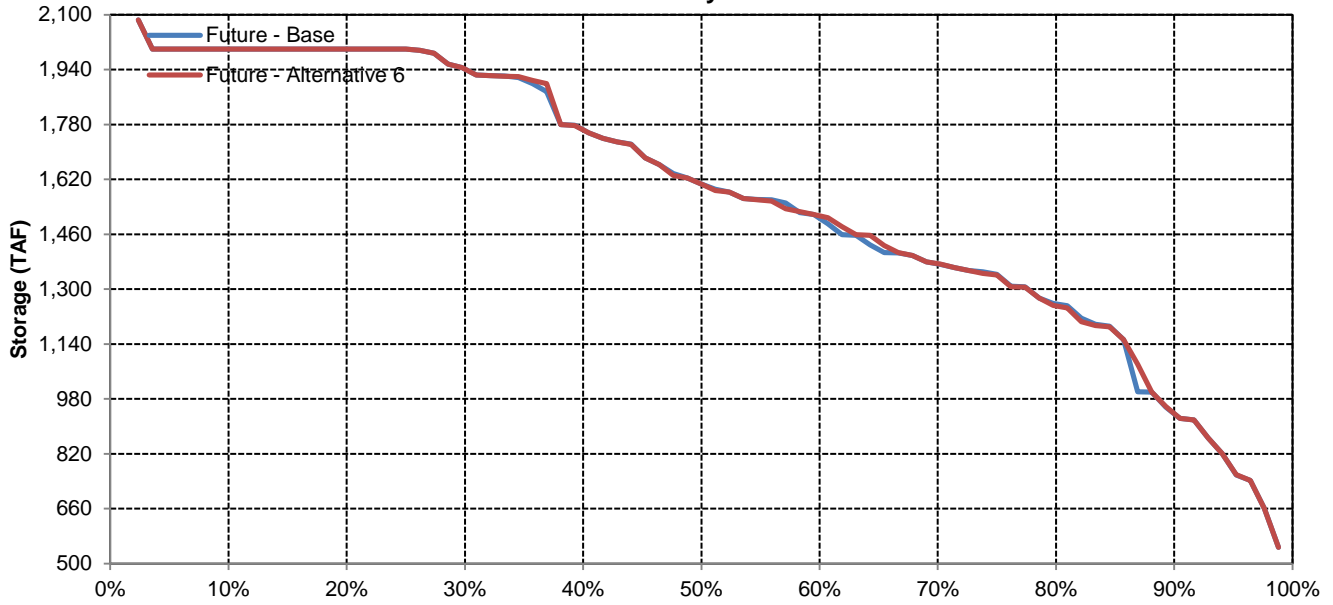


## January

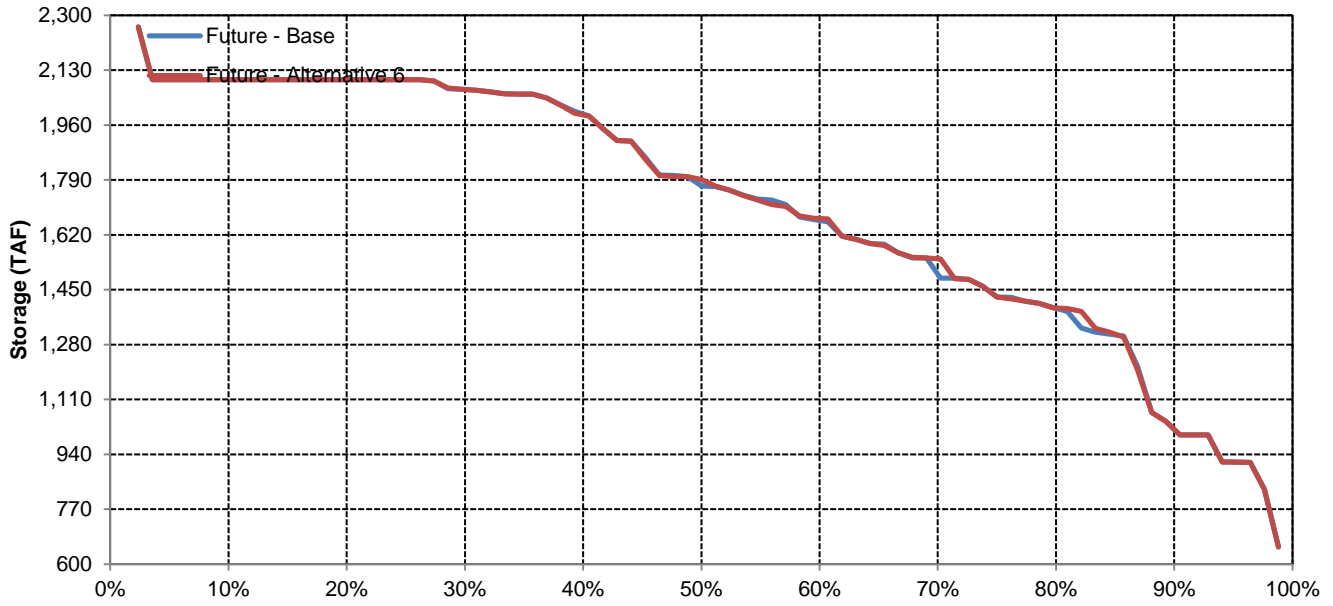


# Trinity Reservoir

## February

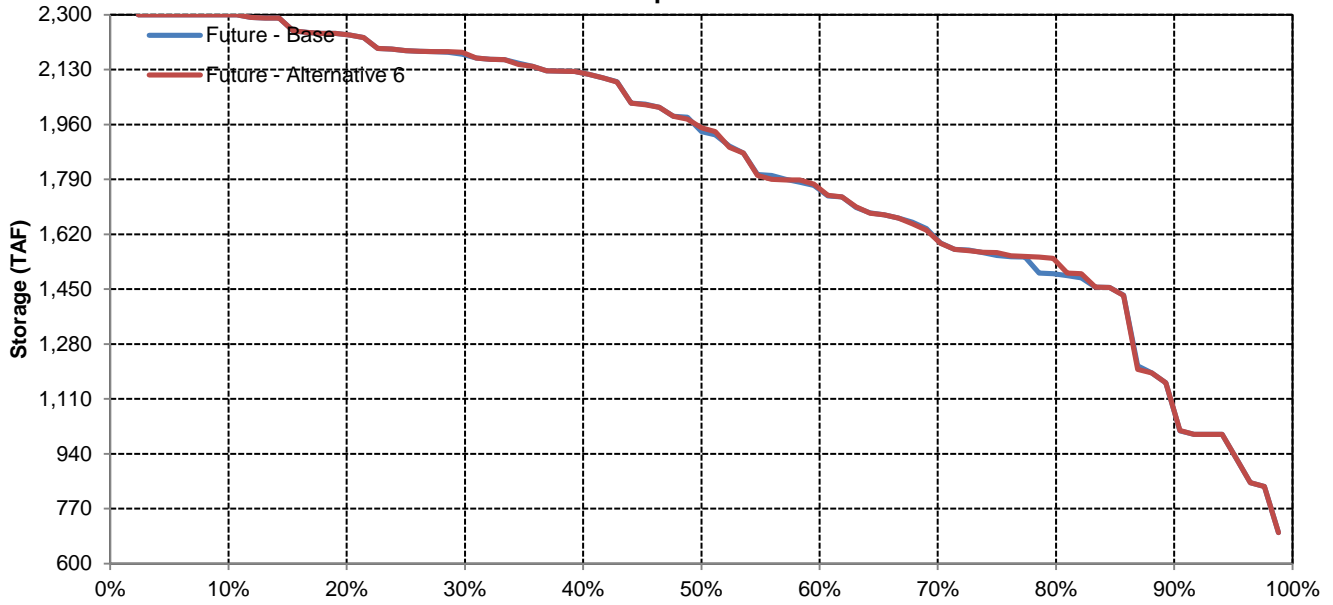


## March

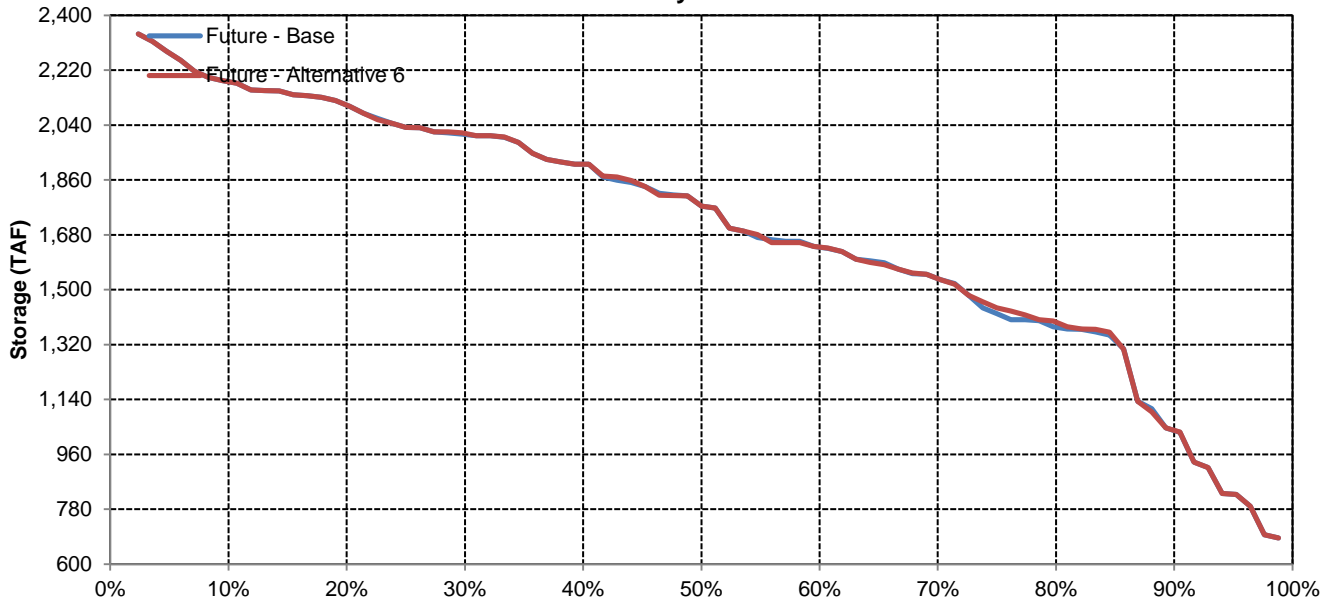


# Trinity Reservoir

## April

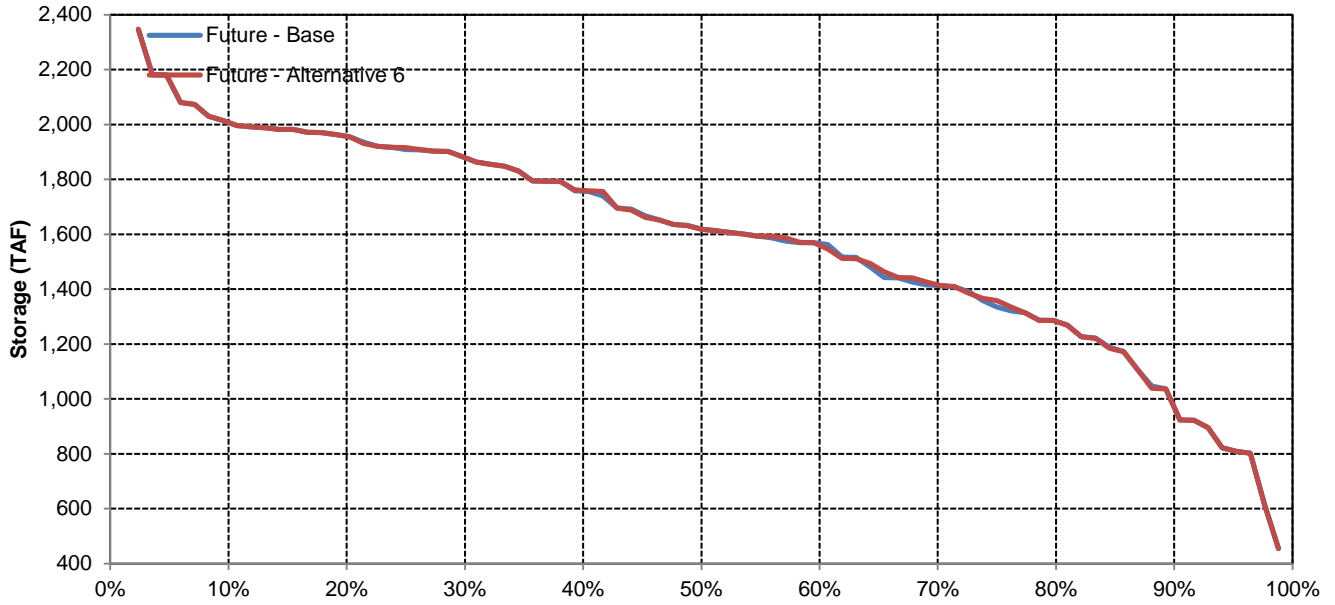


## May

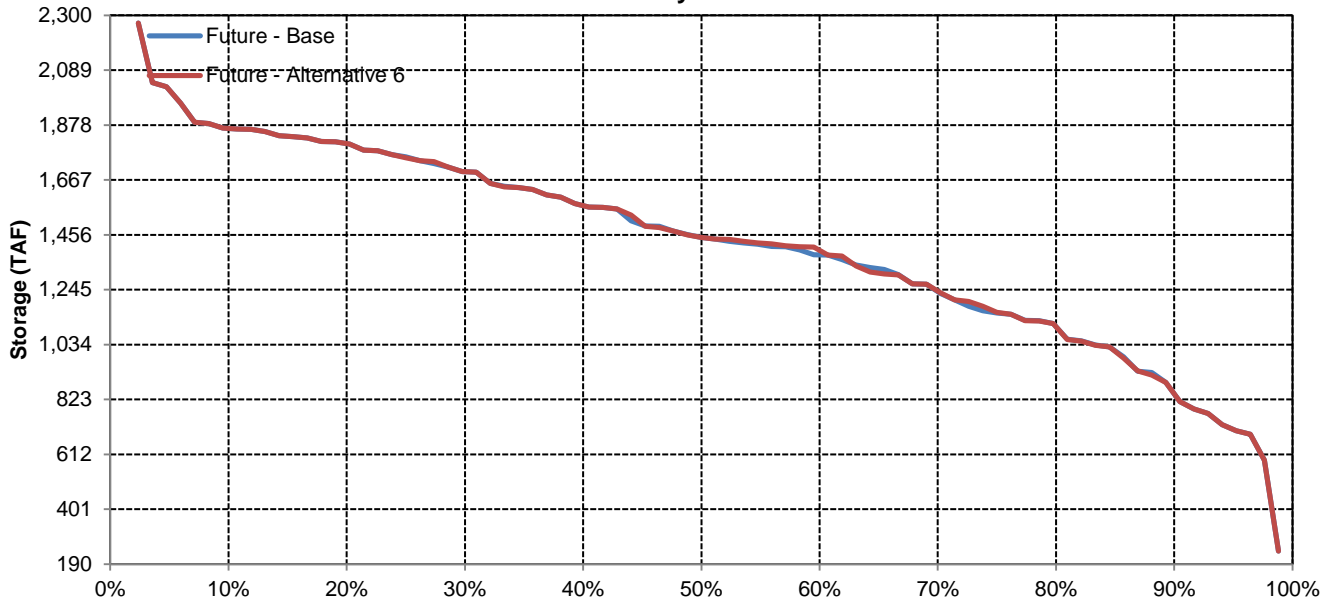


# Trinity Reservoir

## June

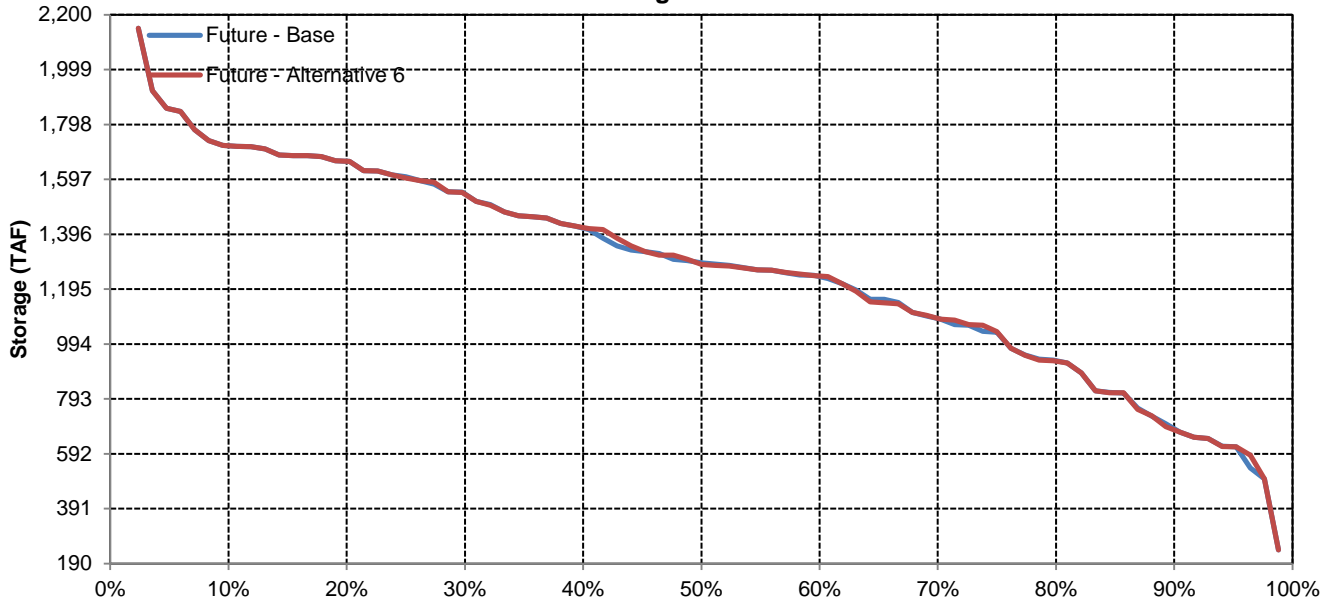


## July

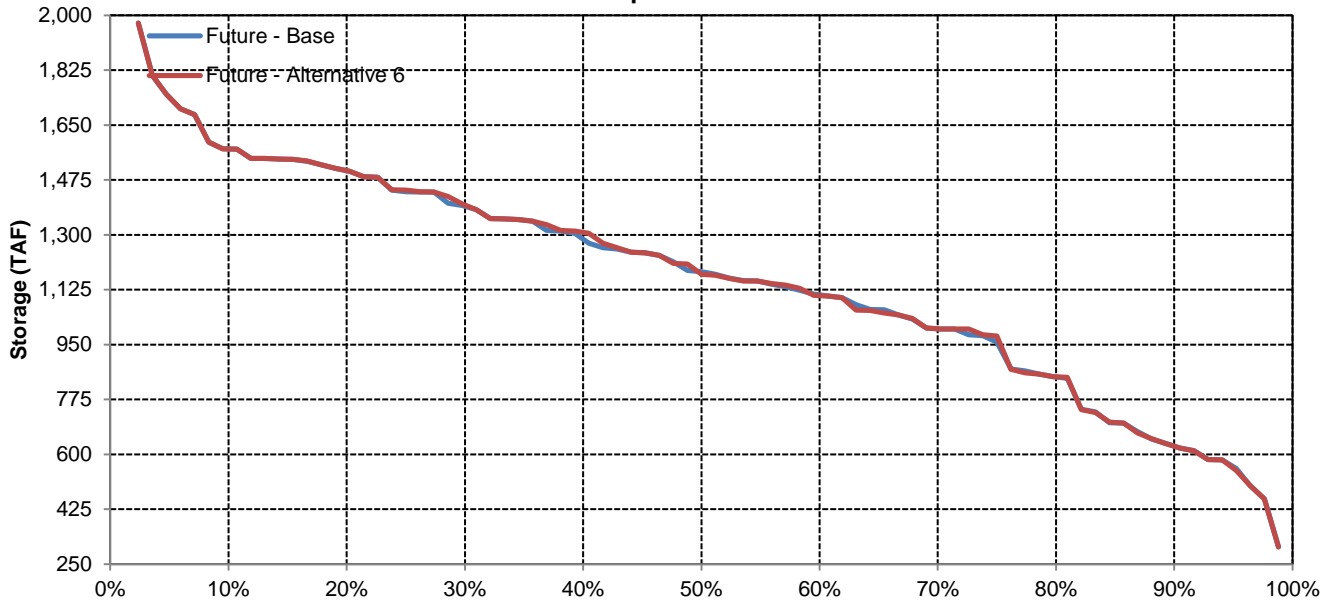


# Trinity Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	2,225	2,278	2,586	2,961	3,277	3,633	3,825	3,712	3,230	2,717	2,459	2,291
Future - Alternative 6	2,224	2,277	2,587	2,960	3,277	3,633	3,825	3,713	3,231	2,718	2,461	2,291
Difference	-1	-1	0	0	0	0	1	1	2	1	2	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	2,396	2,480	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,242	2,994	2,526
Future - Alternative 6	2,395	2,480	2,990	3,394	3,578	3,842	4,229	4,237	3,805	3,243	2,996	2,527
Difference	-1	0	1	0	0	0	1	2	2	1	2	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	2,332	2,398	2,734	3,276	3,538	4,067	4,380	4,287	3,779	3,188	2,931	2,693
Future - Alternative 6	2,327	2,392	2,734	3,276	3,538	4,067	4,380	4,288	3,780	3,188	2,932	2,693
Difference	-4	-6	0	0	0	0	0	0	0	0	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	2,275	2,333	2,490	3,019	3,412	3,836	4,073	3,949	3,396	2,900	2,674	2,743
Future - Alternative 6	2,278	2,336	2,492	3,020	3,414	3,838	4,074	3,950	3,397	2,900	2,677	2,742
Difference	3	2	2	1	1	1	1	1	1	0	2	-1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Dry</b>												
Future - Base	2,104	2,169	2,417	2,659	3,189	3,593	3,618	3,403	2,899	2,449	2,182	2,205
Future - Alternative 6	2,100	2,166	2,414	2,656	3,186	3,590	3,616	3,402	2,899	2,447	2,181	2,203
Difference	-4	-3	-3	-3	-3	-2	-2	-2	-1	-2	-2	-2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	1,906	1,851	1,965	2,171	2,385	2,631	2,519	2,310	1,855	1,394	1,094	1,067
Future - Alternative 6	1,905	1,852	1,968	2,175	2,389	2,635	2,523	2,315	1,862	1,403	1,101	1,074
Difference	0	1	3	3	3	4	4	5	7	9	7	7
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%

Shasta Reservoir Storage

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,037	3,187	3,321	3,635	3,916	4,241	4,482	4,552	4,171	3,512	3,194	2,972
20%	2,810	2,927	3,266	3,539	3,777	4,102	4,372	4,324	3,882	3,302	3,029	2,858
30%	2,671	2,735	3,191	3,403	3,662	4,022	4,251	4,224	3,719	3,170	2,942	2,679
40%	2,416	2,533	2,985	3,335	3,537	3,963	4,176	4,142	3,568	3,039	2,823	2,536
50%	2,317	2,324	2,754	3,252	3,445	3,839	4,109	3,953	3,350	2,880	2,669	2,439
60%	2,245	2,200	2,545	2,973	3,289	3,597	4,009	3,839	3,203	2,755	2,499	2,338
70%	2,020	2,057	2,269	2,767	3,252	3,417	3,756	3,608	3,154	2,594	2,360	2,110
80%	1,757	1,817	2,045	2,429	2,913	3,266	3,216	2,997	2,618	2,141	1,806	1,824
90%	884	1,011	1,336	1,917	2,378	2,633	2,534	2,407	1,951	1,420	978	956
<b>Long Term</b>												
Full Simulation Period	2,225	2,278	2,586	2,961	3,277	3,633	3,825	3,712	3,230	2,717	2,459	2,291
<b>Water Year Types</b>												
Wet	2,396	2,480	2,989	3,394	3,578	3,842	4,228	4,235	3,803	3,242	2,994	2,526
Above Normal	2,332	2,398	2,734	3,276	3,538	4,067	4,380	4,287	3,779	3,188	2,931	2,693
Below Normal	2,275	2,333	2,490	3,019	3,412	3,836	4,073	3,949	3,396	2,900	2,674	2,743
Dry	2,104	2,169	2,417	2,659	3,189	3,593	3,618	3,403	2,899	2,449	2,182	2,205
Critical	1,906	1,851	1,965	2,171	2,385	2,631	2,519	2,310	1,855	1,394	1,094	1,067

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	3,036	3,181	3,321	3,634	3,916	4,241	4,487	4,552	4,171	3,509	3,224	2,973
20%	2,810	2,927	3,266	3,539	3,777	4,102	4,370	4,320	3,882	3,303	3,036	2,858
30%	2,642	2,740	3,204	3,403	3,662	4,012	4,251	4,224	3,720	3,171	2,942	2,679
40%	2,416	2,534	2,981	3,335	3,529	3,965	4,176	4,143	3,568	3,021	2,820	2,544
50%	2,321	2,317	2,754	3,252	3,445	3,839	4,110	3,953	3,352	2,881	2,669	2,439
60%	2,240	2,200	2,546	2,973	3,283	3,601	4,009	3,836	3,203	2,755	2,502	2,338
70%	2,019	2,049	2,270	2,764	3,252	3,417	3,771	3,614	3,158	2,596	2,356	2,126
80%	1,757	1,817	2,037	2,429	2,913	3,258	3,216	2,992	2,613	2,141	1,806	1,823
90%	885	1,009	1,338	1,921	2,378	2,627	2,530	2,410	1,953	1,423	979	957
<b>Long Term</b>												
Full Simulation Period	2,224	2,277	2,587	2,960	3,277	3,633	3,825	3,713	3,231	2,718	2,461	2,291
<b>Water Year Types</b>												
Wet	2,395	2,480	2,990	3,394	3,578	3,842	4,229	4,237	3,805	3,243	2,996	2,527
Above Normal	2,327	2,392	2,734	3,276	3,538	4,067	4,380	4,288	3,780	3,188	2,932	2,693
Below Normal	2,278	2,336	2,492	3,020	3,414	3,838	4,074	3,950	3,397	2,900	2,677	2,742
Dry	2,100	2,166	2,414	2,656	3,186	3,590	3,616	3,402	2,899	2,447	2,181	2,203
Critical	1,905	1,852	1,968	2,175	2,389	2,635	2,523	2,315	1,862	1,403	1,101	1,074

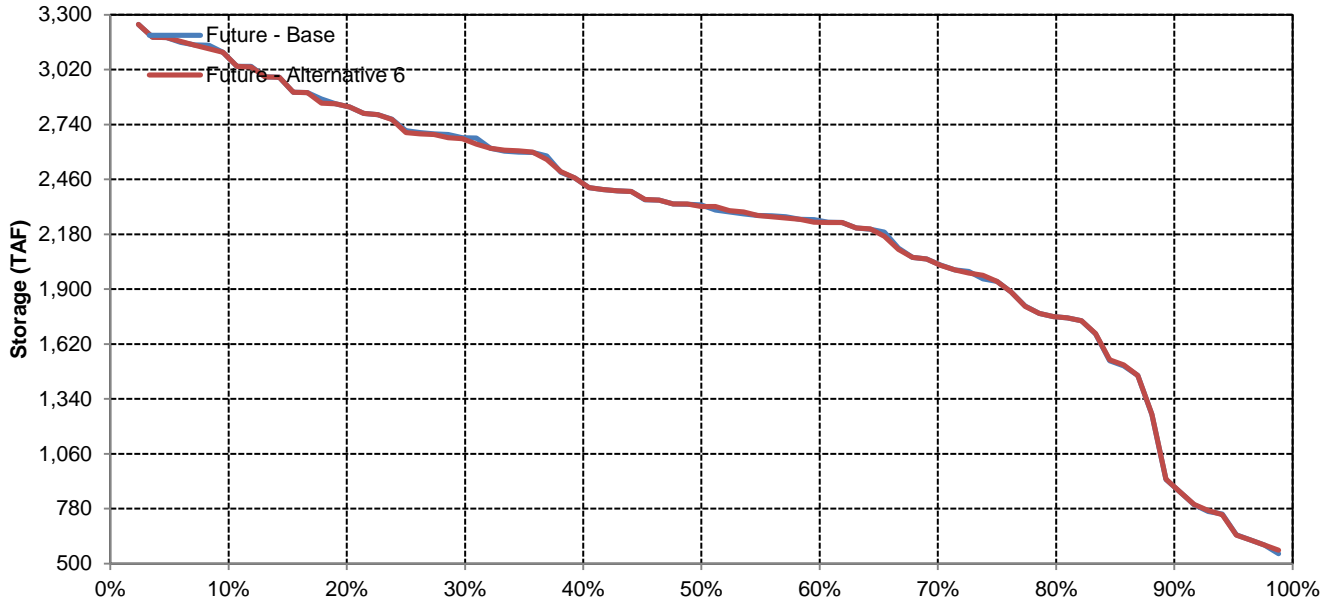
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	-1	-6	0	0	0	0	5	0	0	-3	30	1
20%	0	-1	0	0	0	0	-3	-4	0	0	7	0
30%	-29	4	13	0	0	-11	0	0	0	0	0	0
40%	0	1	-4	0	-8	2	0	0	0	-18	-2	9
50%	4	-6	0	0	0	0	0	0	2	0	0	0
60%	-4	0	2	0	-6	4	0	-2	0	0	3	0
70%	-2	-8	1	-3	0	0	14	6	4	1	-3	17
80%	0	0	-8	0	-1	-8	-1	-5	-5	-1	0	-1
90%	0	-2	3	4	-1	-5	-4	2	2	3	1	1
<b>Long Term</b>												
Full Simulation Period	-1	-1	0	0	0	0	1	1	2	1	2	1
<b>Water Year Types</b>												
Wet	-1	0	1	0	0	0	1	2	2	1	2	1
Above Normal	-4	-6	0	0	0	0	0	0	0	0	0	0
Below Normal	3	2	2	1	1	1	1	1	1	0	2	-1
Dry	-4	-3	-3	-3	-3	-2	-2	-2	-1	-2	-2	-2
Critical	0	1	3	3	3	4	4	5	7	9	7	7

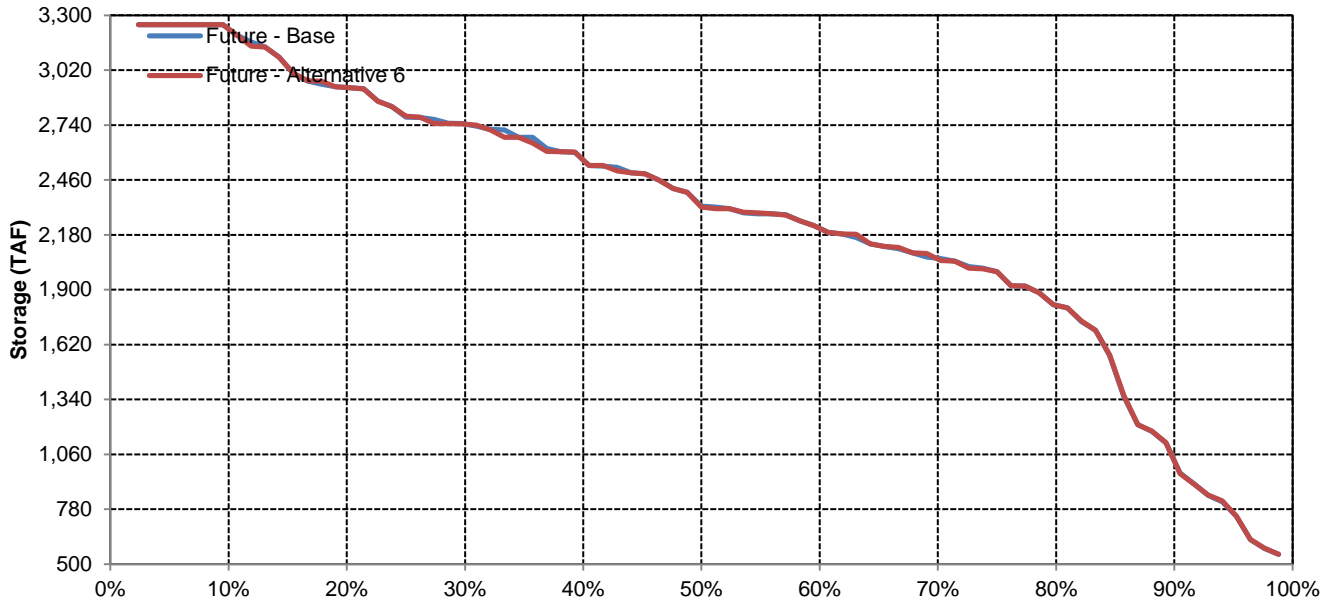


# Shasta Reservoir Storage

## October

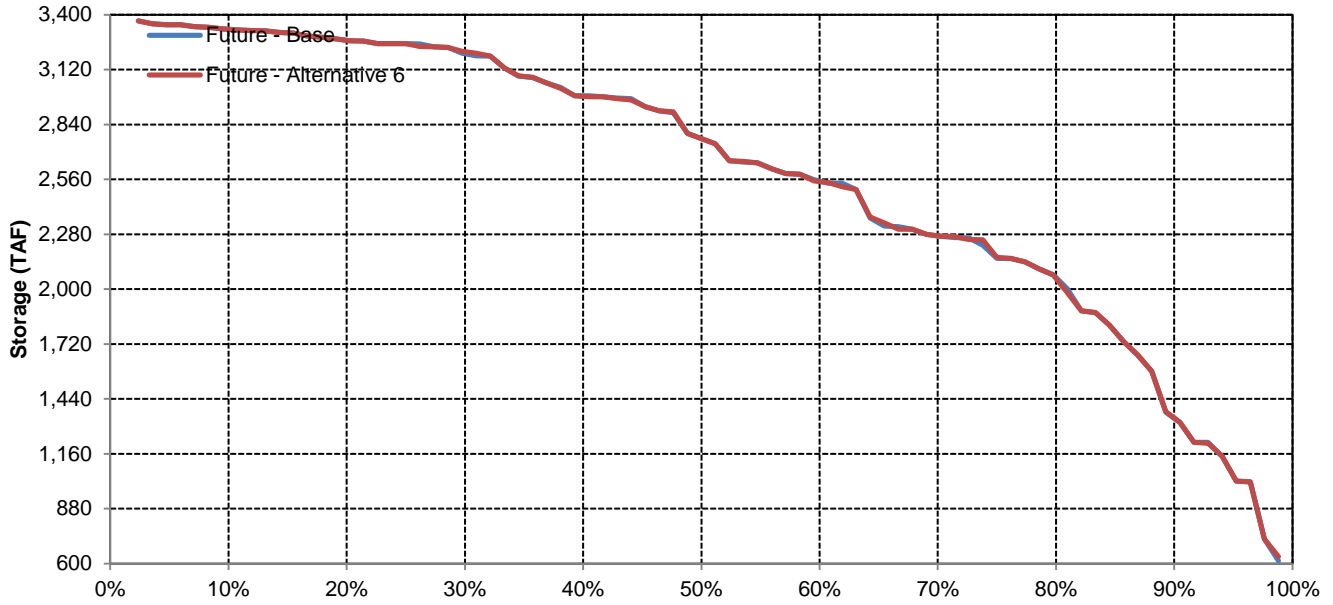


## November

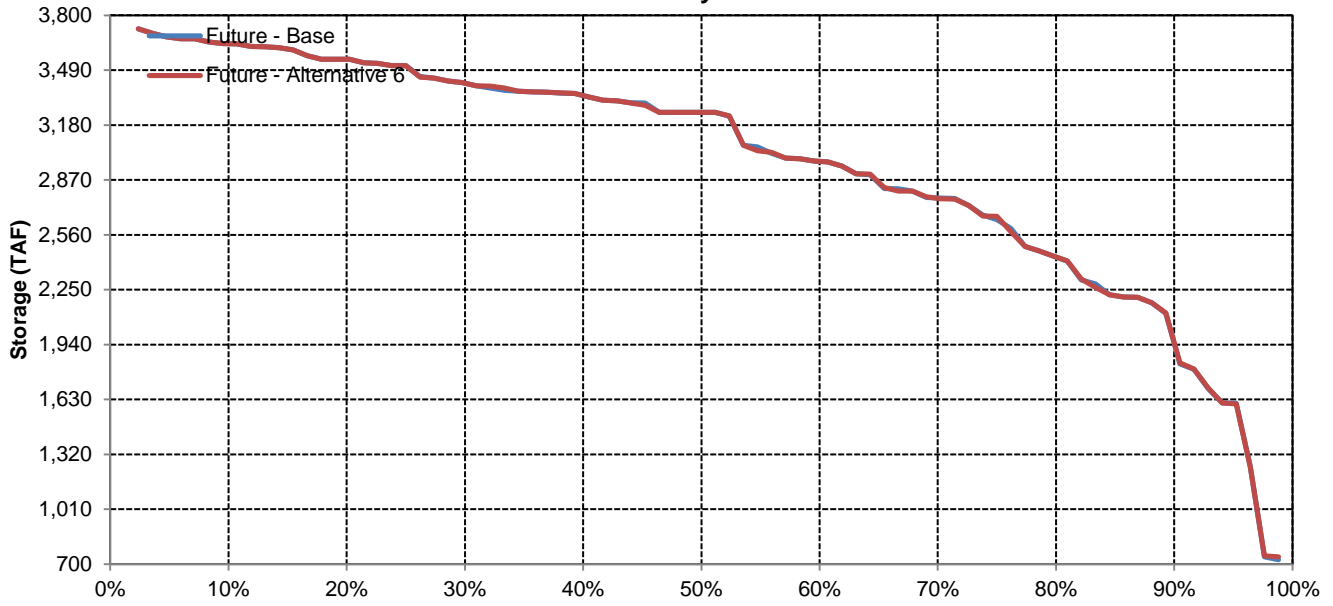


# Shasta Reservoir Storage

## December

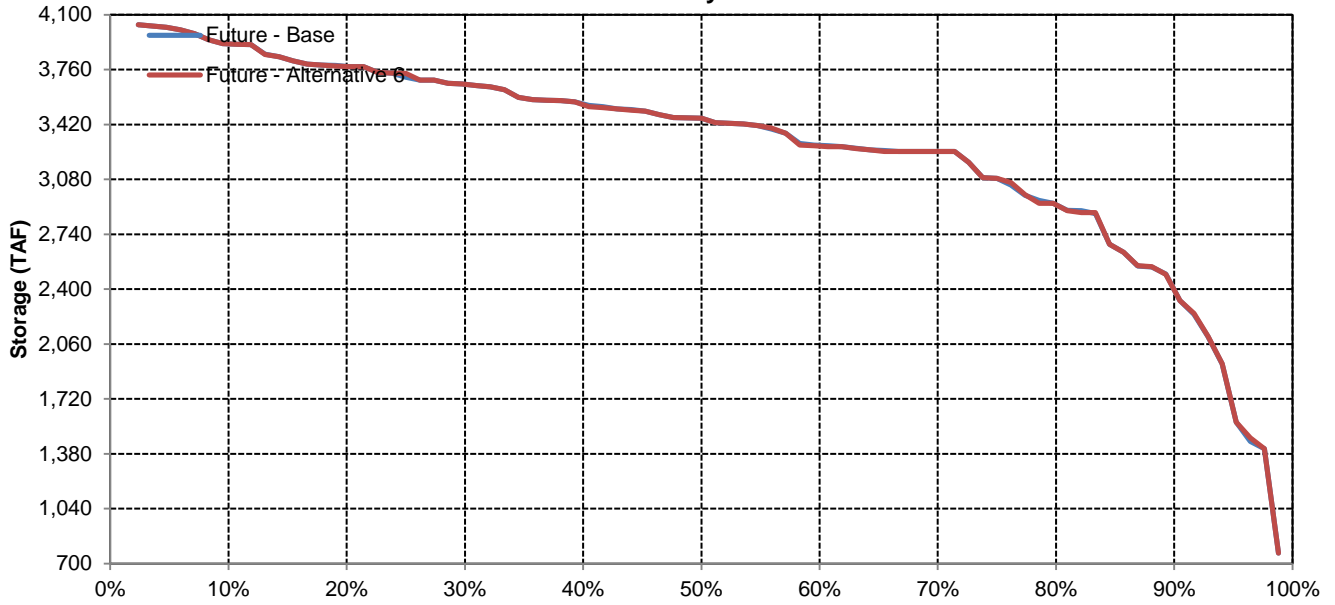


## January

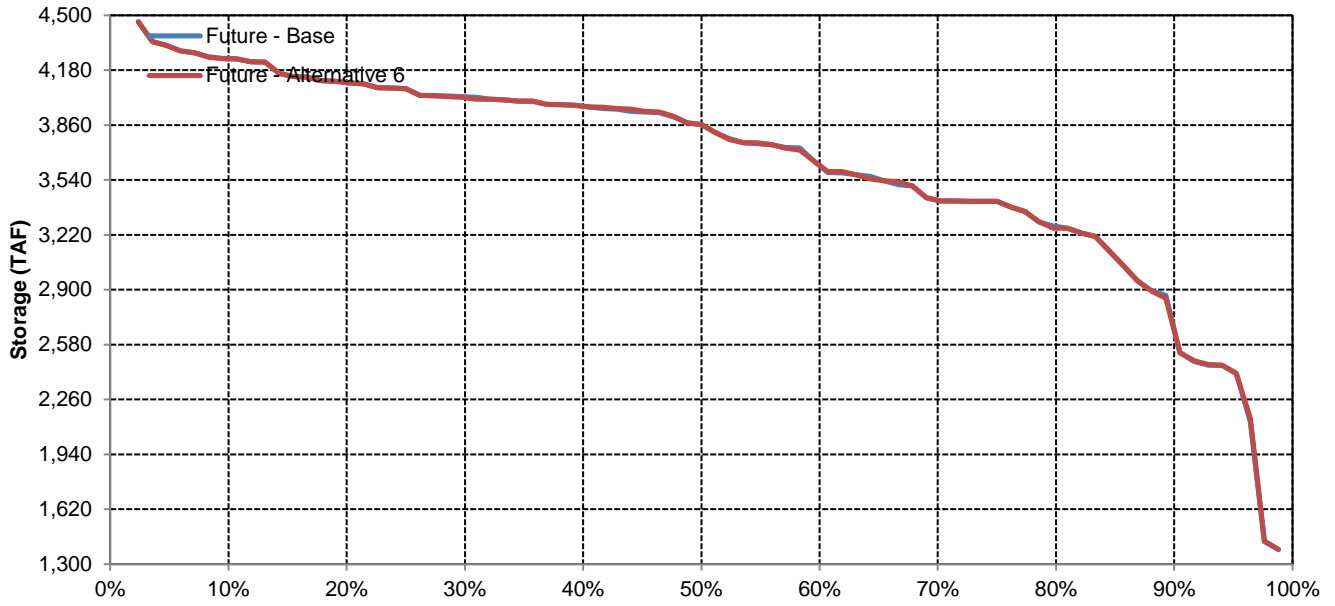


# Shasta Reservoir Storage

## February

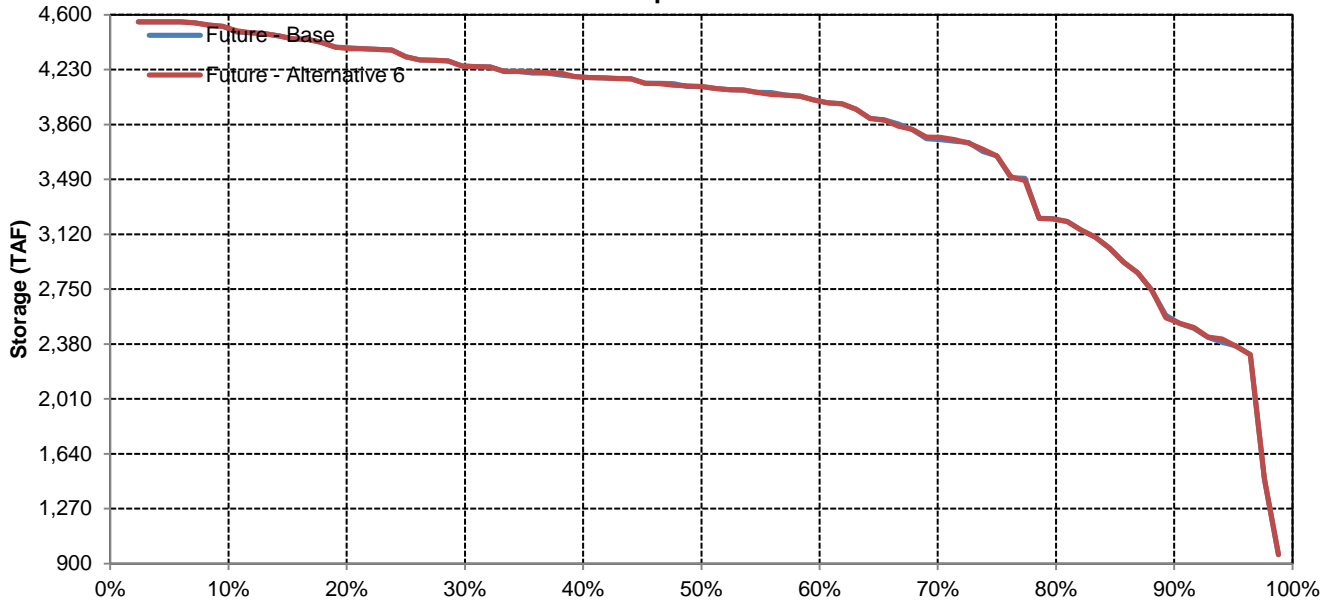


## March

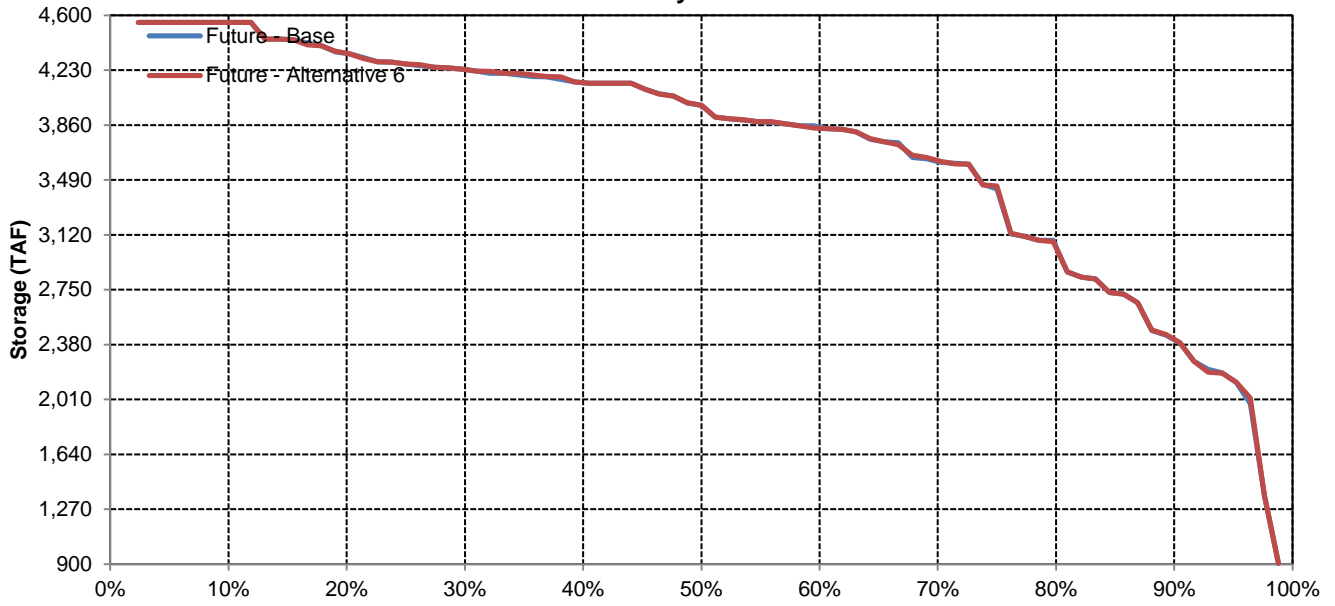


# Shasta Reservoir Storage

## April

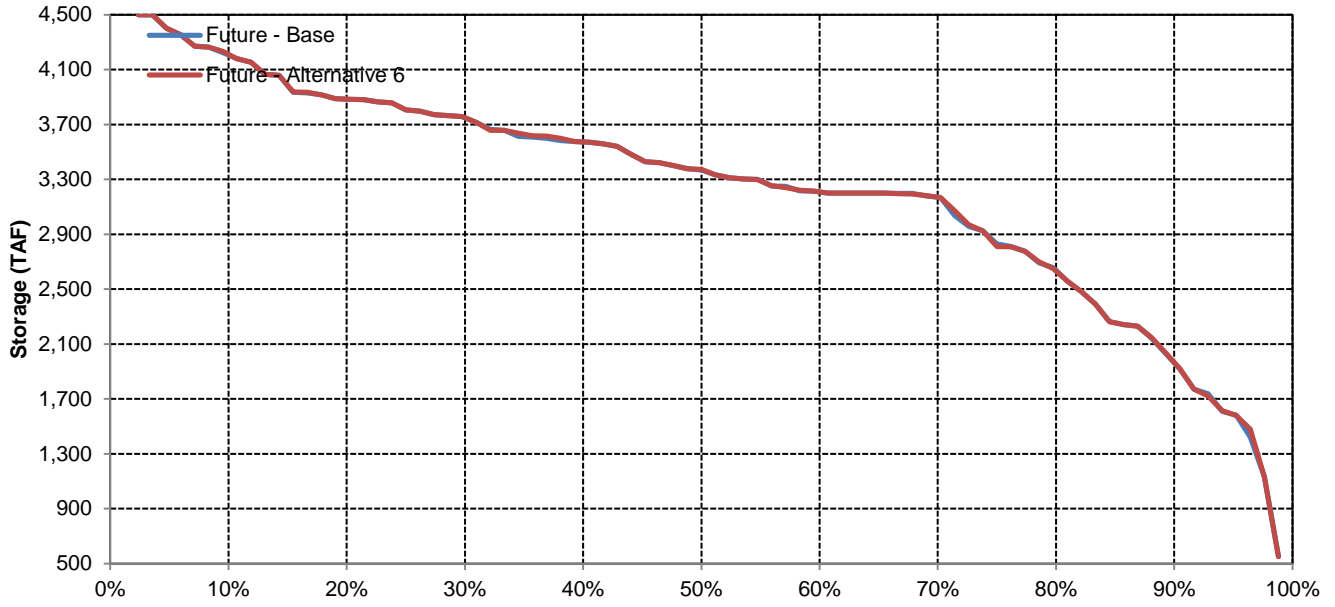


## May

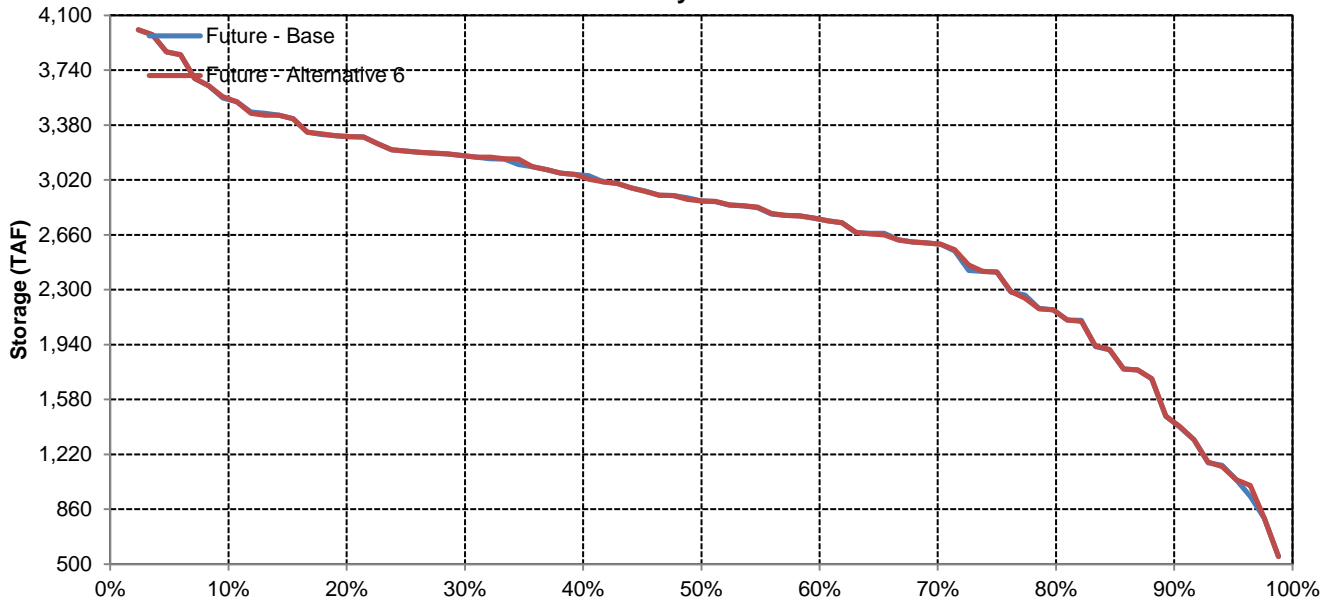


# Shasta Reservoir Storage

## June

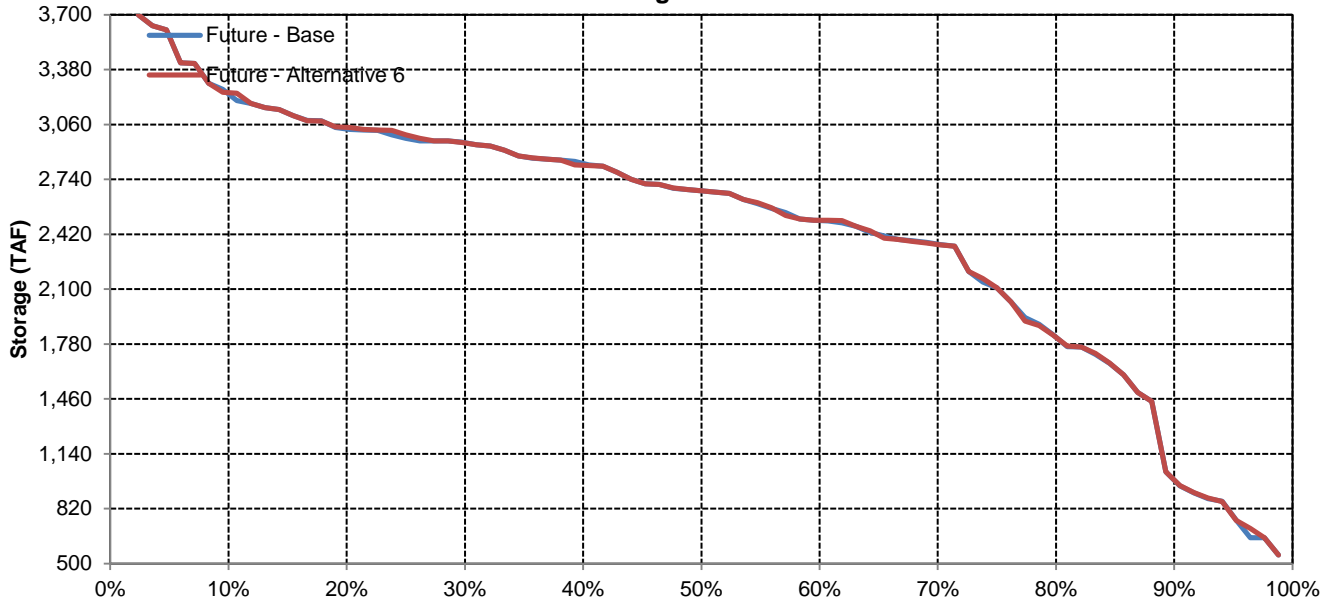


## July

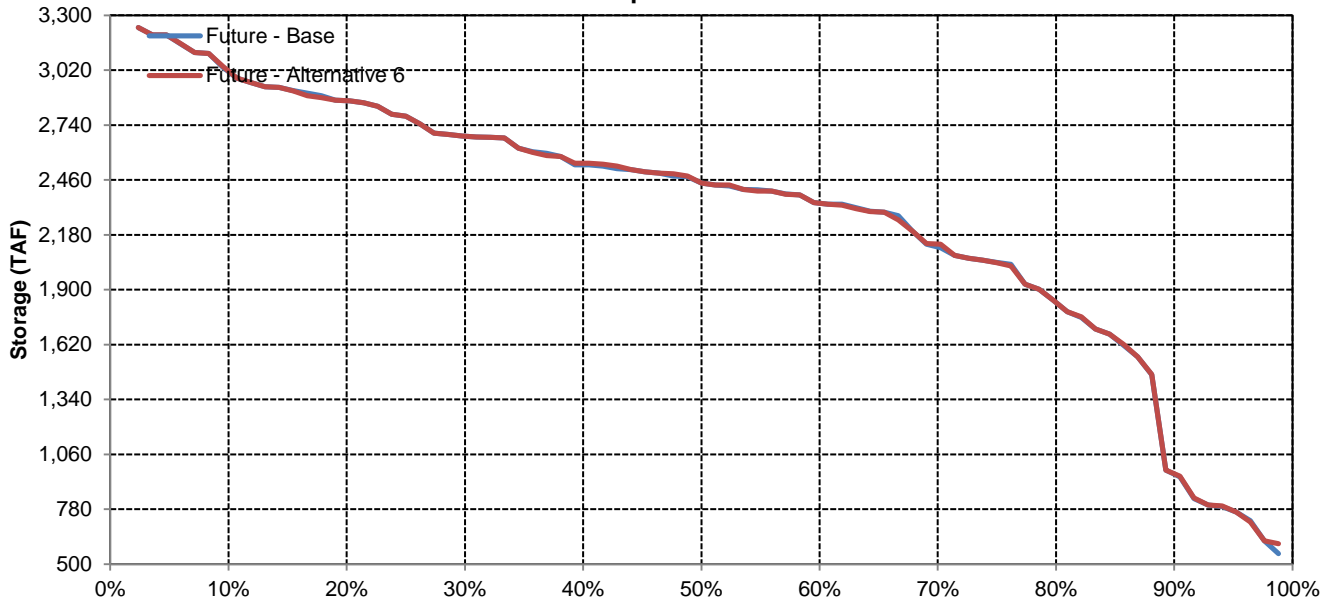


# Shasta Reservoir Storage

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	1,244	1,285	1,585	1,975	2,295	2,515	2,665	2,627	2,322	1,842	1,548	1,355
Future - Alternative 6	1,247	1,288	1,587	1,978	2,297	2,517	2,667	2,629	2,326	1,846	1,550	1,358
Difference	3	3	2	3	2	2	2	2	4	4	2	3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	1,339	1,496	2,168	2,719	2,891	2,940	3,223	3,257	2,987	2,389	2,023	1,633
Future - Alternative 6	1,342	1,501	2,171	2,720	2,891	2,940	3,223	3,257	2,987	2,390	2,026	1,636
Difference	4	5	3	1	0	0	0	0	0	1	3	3
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	1,447	1,447	1,640	2,269	2,768	2,962	3,196	3,169	2,777	2,174	1,831	1,539
Future - Alternative 6	1,452	1,449	1,647	2,273	2,769	2,962	3,196	3,169	2,777	2,174	1,831	1,540
Difference	5	2	7	4	1	0	0	0	0	1	0	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	1,249	1,221	1,348	1,711	2,121	2,564	2,712	2,662	2,276	1,745	1,468	1,397
Future - Alternative 6	1,252	1,222	1,349	1,713	2,124	2,566	2,714	2,668	2,292	1,761	1,473	1,402
Difference	2	1	1	2	2	2	2	6	16	16	6	5
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
<b>Dry</b>												
Future - Base	1,100	1,111	1,253	1,469	1,902	2,247	2,284	2,176	1,845	1,457	1,207	1,161
Future - Alternative 6	1,102	1,114	1,253	1,472	1,905	2,248	2,286	2,177	1,844	1,456	1,206	1,162
Difference	2	3	1	2	2	2	2	2	-1	-1	-1	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	1,087	1,038	1,079	1,222	1,410	1,580	1,555	1,479	1,306	1,102	916	863
Future - Alternative 6	1,086	1,037	1,081	1,227	1,416	1,586	1,561	1,484	1,319	1,111	916	869
Difference	0	0	2	5	5	5	5	6	13	9	0	6
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%

Oroville Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,636	1,973	2,788	2,854	2,994	3,059	3,347	3,446	3,357	2,744	2,228	1,836
20%	1,502	1,552	2,259	2,788	2,856	2,991	3,237	3,254	3,034	2,401	2,003	1,666
30%	1,413	1,392	1,723	2,787	2,788	2,938	3,180	3,142	2,680	2,176	1,819	1,572
40%	1,252	1,284	1,473	2,185	2,788	2,833	3,081	3,034	2,528	1,958	1,679	1,439
50%	1,159	1,175	1,411	1,820	2,492	2,788	2,979	2,790	2,386	1,840	1,570	1,325
60%	1,084	1,076	1,258	1,613	2,165	2,539	2,672	2,667	2,222	1,693	1,307	1,222
70%	998	1,001	1,180	1,458	1,946	2,268	2,297	2,185	1,924	1,499	1,201	1,097
80%	985	953	1,002	1,258	1,538	1,950	2,026	1,954	1,706	1,328	1,052	995
90%	829	891	941	1,010	1,262	1,594	1,557	1,411	1,216	1,006	916	879
<b>Long Term</b>												
Full Simulation Period	1,244	1,285	1,585	1,975	2,295	2,515	2,665	2,627	2,322	1,842	1,548	1,355
<b>Water Year Types</b>												
Wet	1,339	1,496	2,168	2,719	2,891	2,940	3,223	3,257	2,987	2,389	2,023	1,633
Above Normal	1,447	1,447	1,640	2,269	2,768	2,962	3,196	3,169	2,777	2,174	1,831	1,539
Below Normal	1,249	1,221	1,348	1,711	2,121	2,564	2,712	2,662	2,276	1,745	1,468	1,397
Dry	1,100	1,111	1,253	1,469	1,902	2,247	2,284	2,176	1,845	1,457	1,207	1,161
Critical	1,087	1,038	1,079	1,222	1,410	1,580	1,555	1,479	1,306	1,102	916	863

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1,636	1,973	2,788	2,854	2,994	3,059	3,347	3,446	3,357	2,762	2,227	1,834
20%	1,502	1,568	2,266	2,788	2,856	2,991	3,237	3,254	3,034	2,401	2,004	1,667
30%	1,413	1,384	1,758	2,787	2,788	2,938	3,180	3,142	2,688	2,176	1,819	1,593
40%	1,252	1,285	1,474	2,185	2,788	2,844	3,081	3,049	2,530	1,985	1,679	1,439
50%	1,159	1,185	1,412	1,819	2,496	2,788	2,979	2,790	2,386	1,845	1,570	1,322
60%	1,084	1,075	1,258	1,614	2,165	2,539	2,672	2,667	2,222	1,693	1,341	1,228
70%	998	1,001	1,181	1,458	1,946	2,269	2,297	2,185	1,927	1,503	1,199	1,093
80%	990	956	1,003	1,259	1,577	1,947	2,024	1,950	1,727	1,320	1,025	996
90%	834	891	941	1,025	1,262	1,594	1,557	1,412	1,217	1,007	917	885
<b>Long Term</b>												
Full Simulation Period	1,247	1,288	1,587	1,978	2,297	2,517	2,667	2,629	2,326	1,846	1,550	1,358
<b>Water Year Types</b>												
Wet	1,342	1,501	2,171	2,720	2,891	2,940	3,223	3,257	2,987	2,390	2,026	1,636
Above Normal	1,452	1,449	1,647	2,273	2,769	2,962	3,196	3,169	2,777	2,174	1,831	1,540
Below Normal	1,252	1,222	1,349	1,713	2,124	2,566	2,714	2,668	2,292	1,761	1,473	1,402
Dry	1,102	1,114	1,253	1,472	1,905	2,248	2,286	2,177	1,844	1,456	1,206	1,162
Critical	1,086	1,037	1,081	1,227	1,416	1,586	1,561	1,484	1,319	1,111	916	869

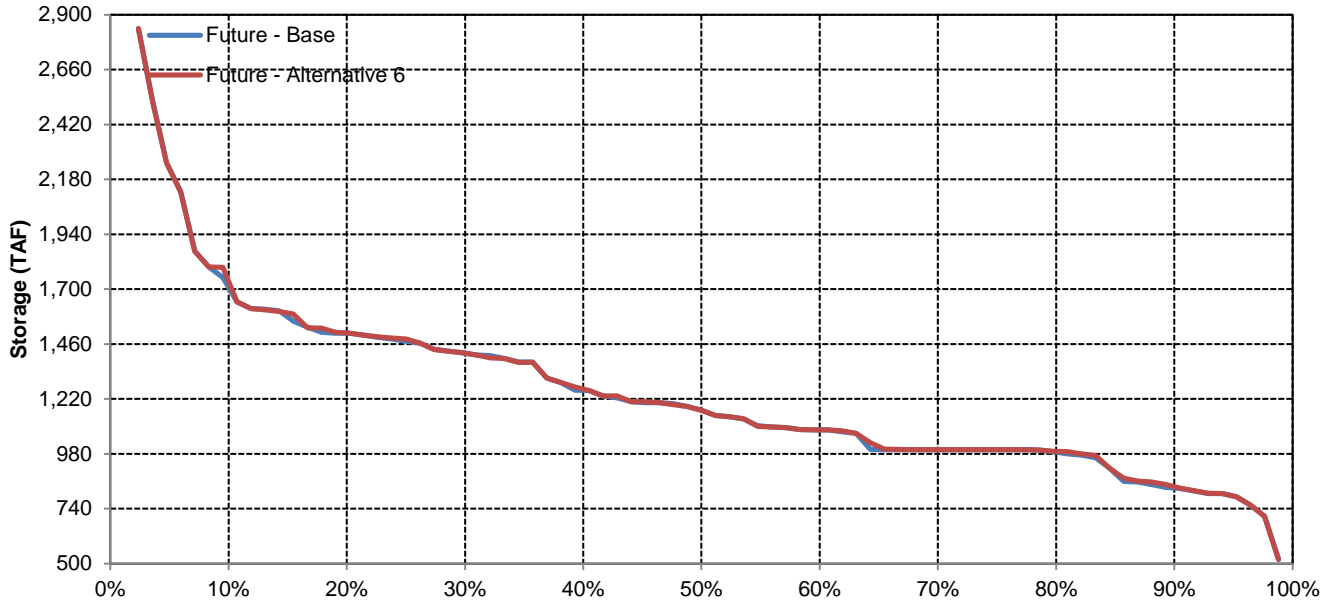
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	0	0	0	0	0	0	0	0	17	-1	-2
20%	0	16	7	0	0	0	0	0	0	0	1	0
30%	-1	-9	35	0	0	0	0	0	9	0	0	20
40%	0	1	0	0	0	11	0	15	3	27	0	0
50%	0	10	1	-1	4	0	0	0	0	5	0	-2
60%	0	-1	0	1	0	0	0	0	0	0	34	6
70%	0	0	1	0	0	1	0	0	3	4	-2	-4
80%	5	3	1	0	39	-3	-2	-3	21	-8	-27	1
90%	5	0	0	15	0	0	1	1	1	1	1	6
<b>Long Term</b>												
Full Simulation Period	3	3	2	3	2	2	2	2	4	4	2	3
<b>Water Year Types</b>												
Wet	4	5	3	1	0	0	0	0	0	1	3	3
Above Normal	5	2	7	4	1	0	0	0	0	1	0	0
Below Normal	2	1	1	2	2	2	2	6	16	16	6	5
Dry	2	3	1	2	2	2	2	2	-1	-1	-1	0
Critical	0	0	2	5	5	5	5	6	13	9	0	6

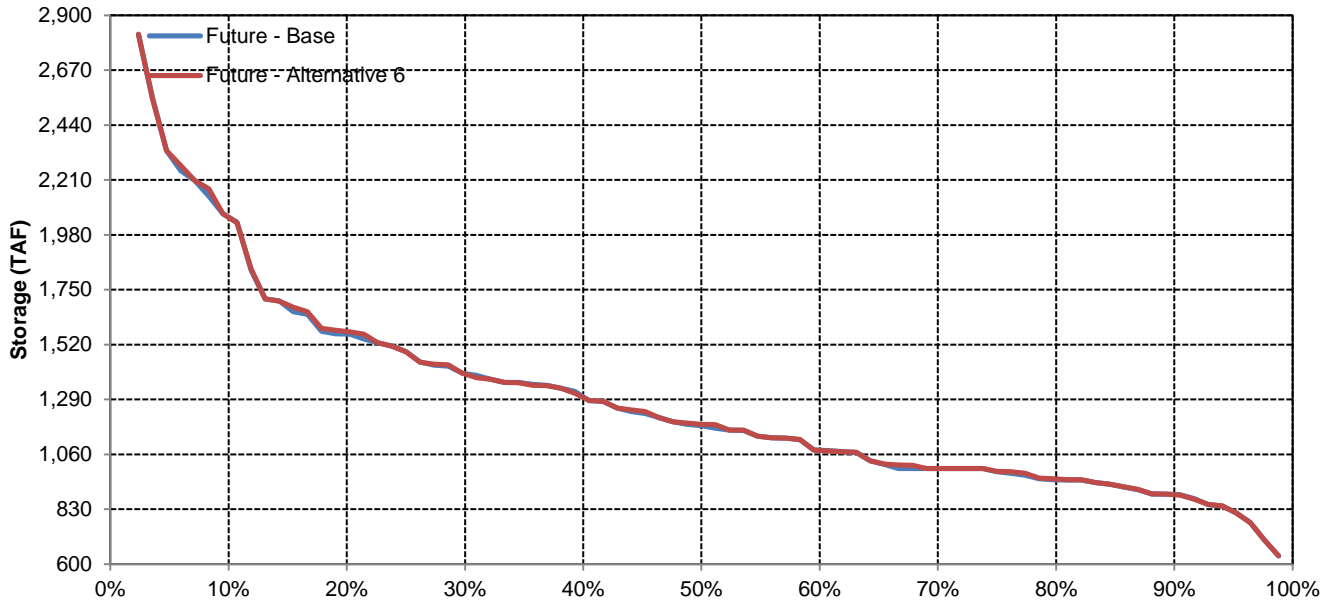


# Oroville Reservoir

## October

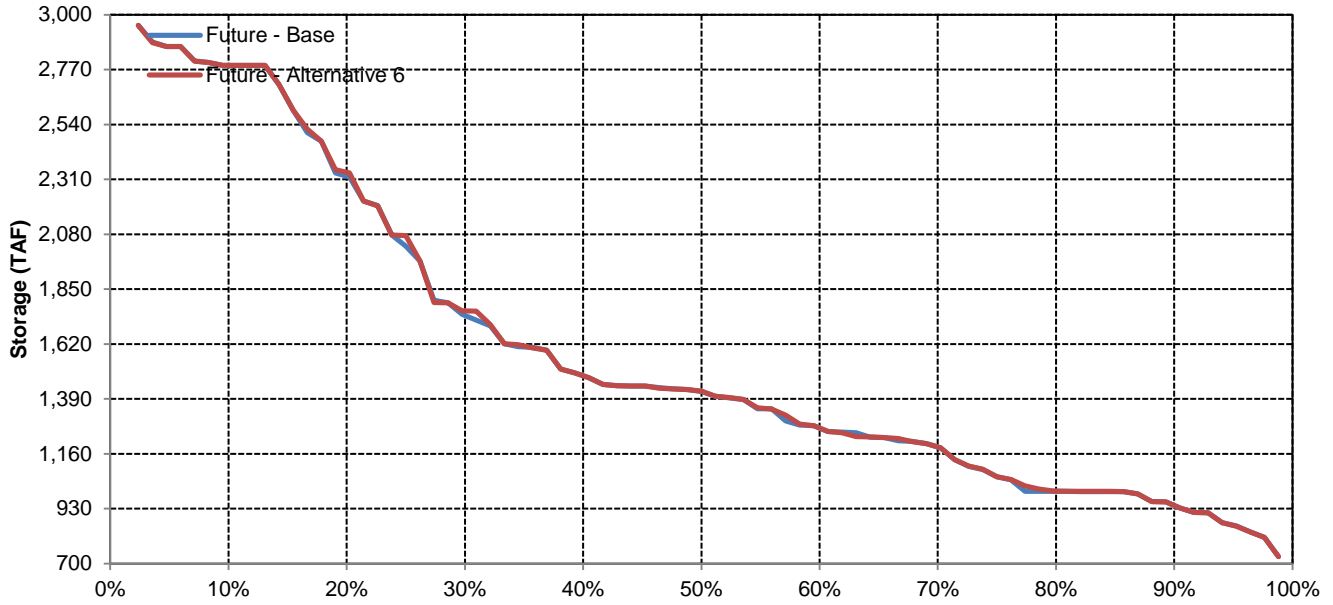


## November

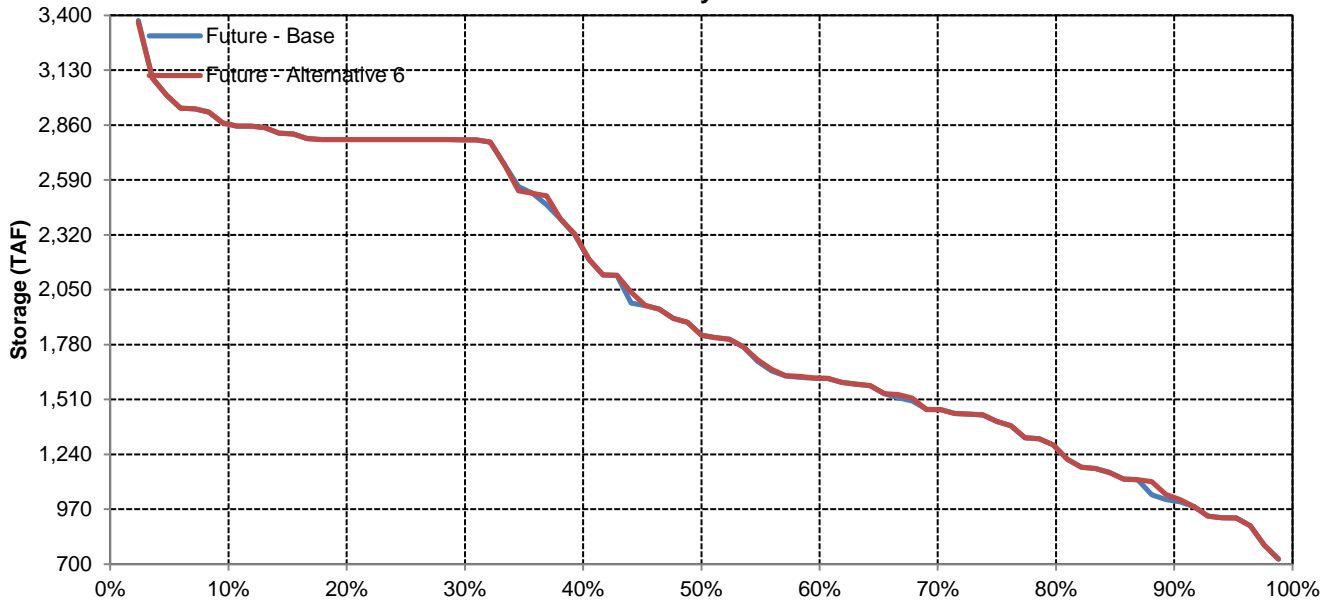


# Oroville Reservoir

## December

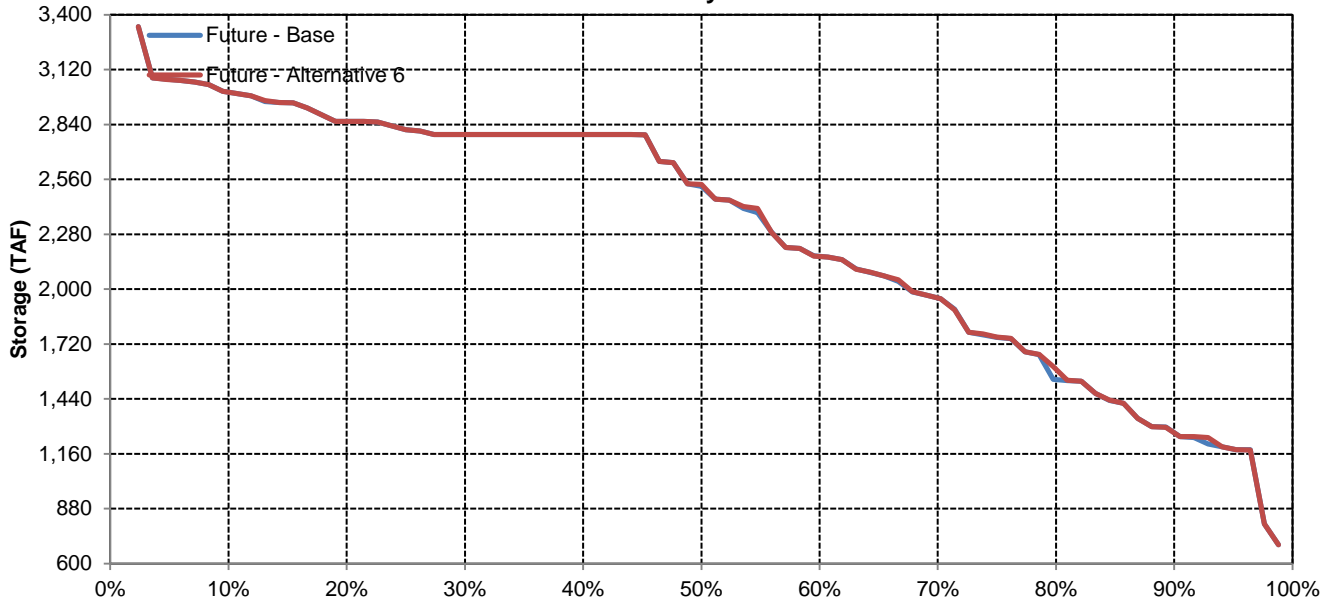


## January

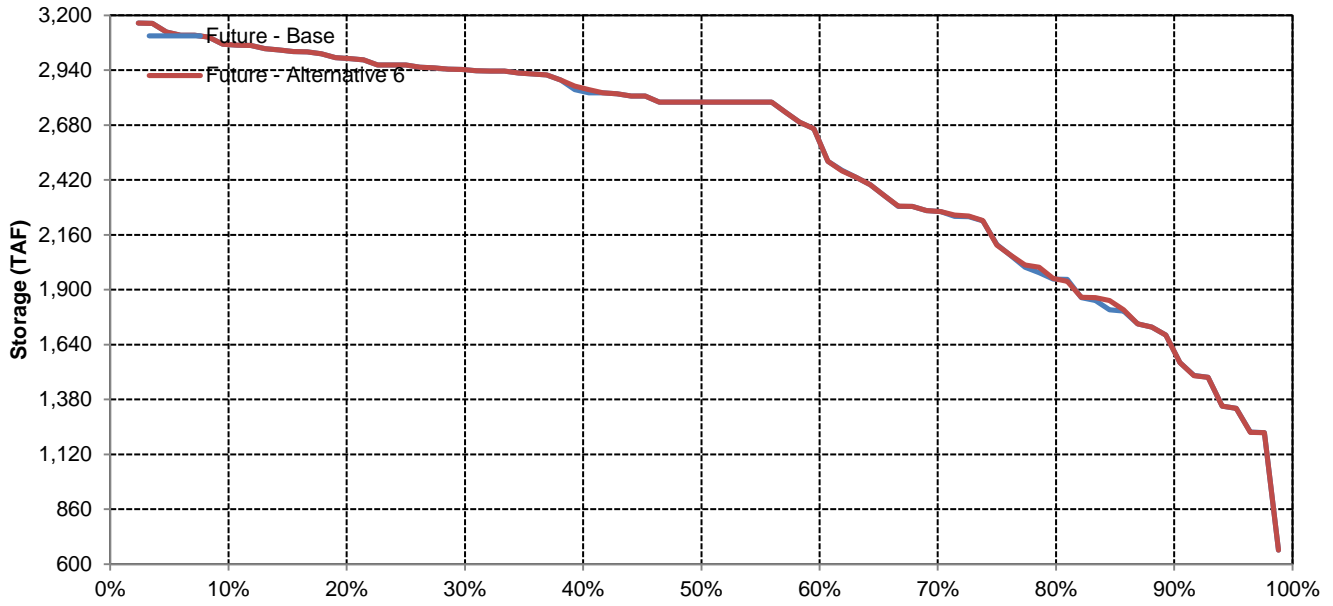


# Oroville Reservoir

## February

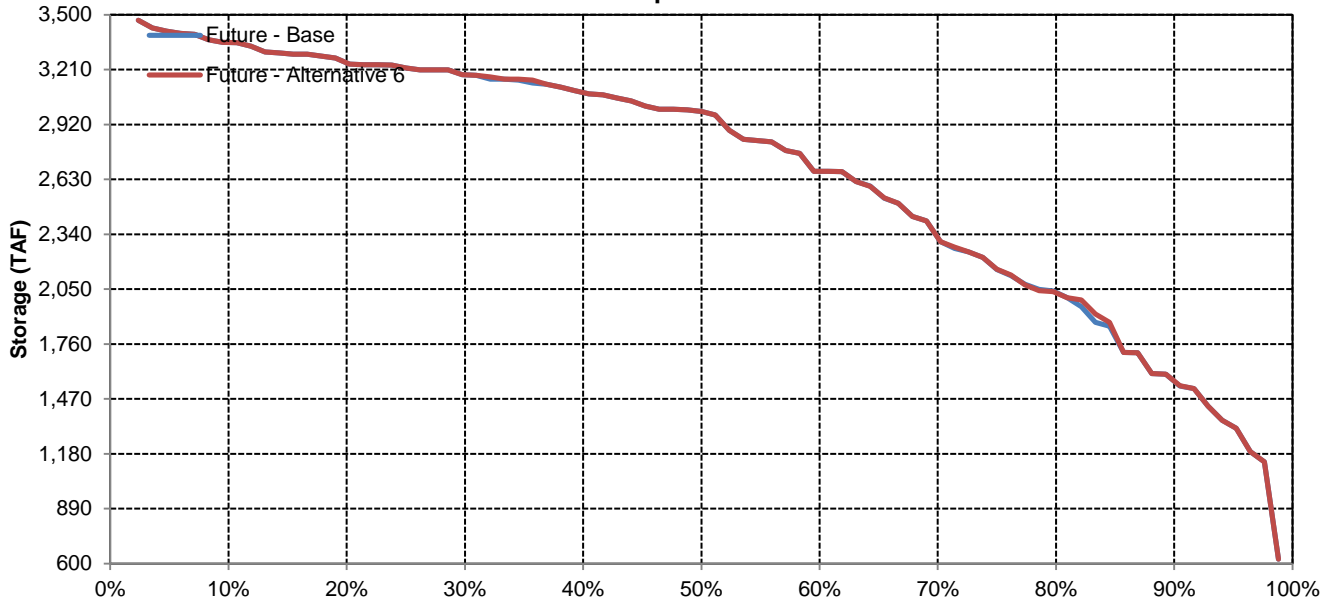


## March

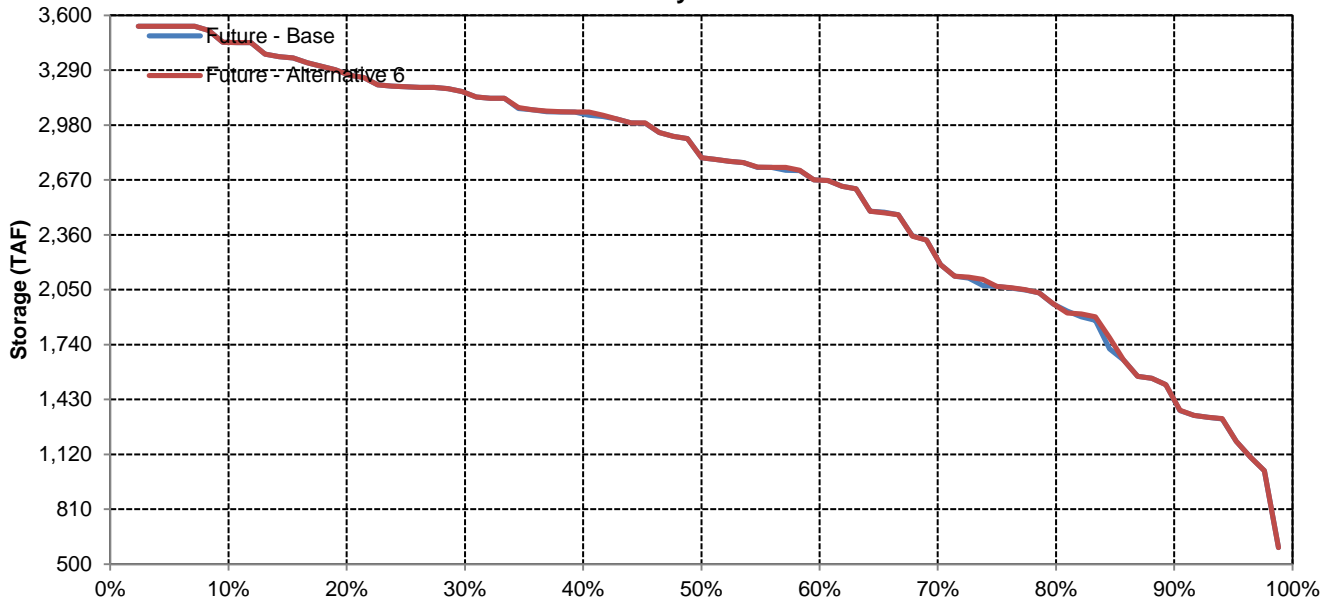


# Oroville Reservoir

## April

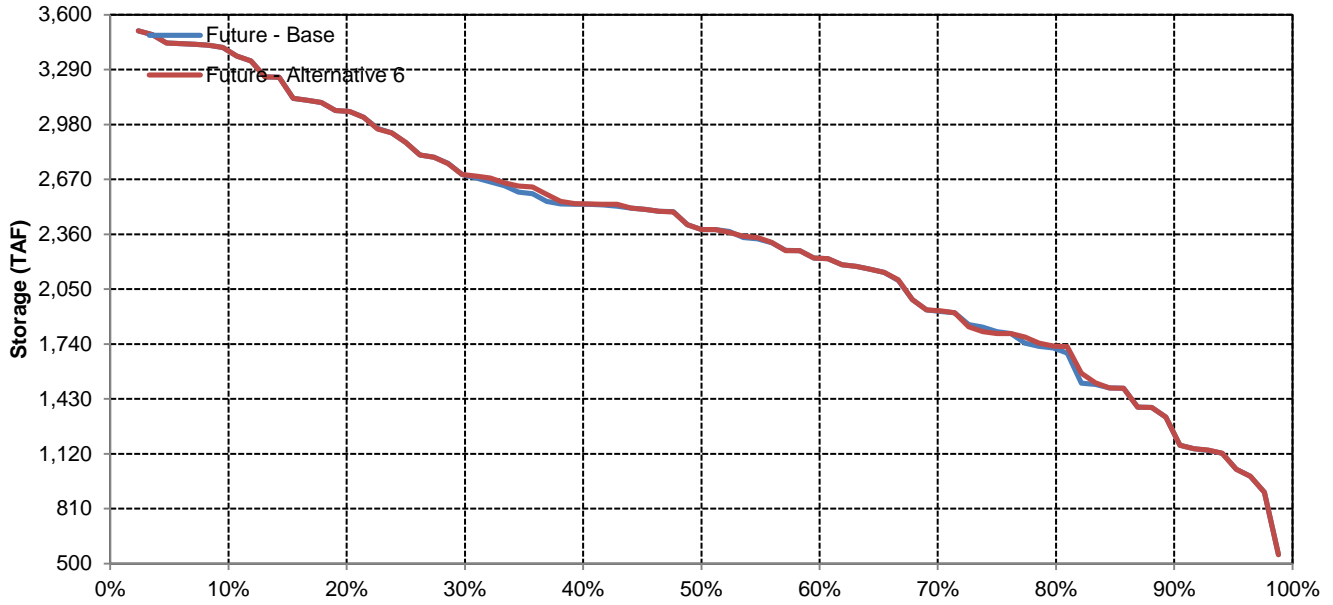


## May

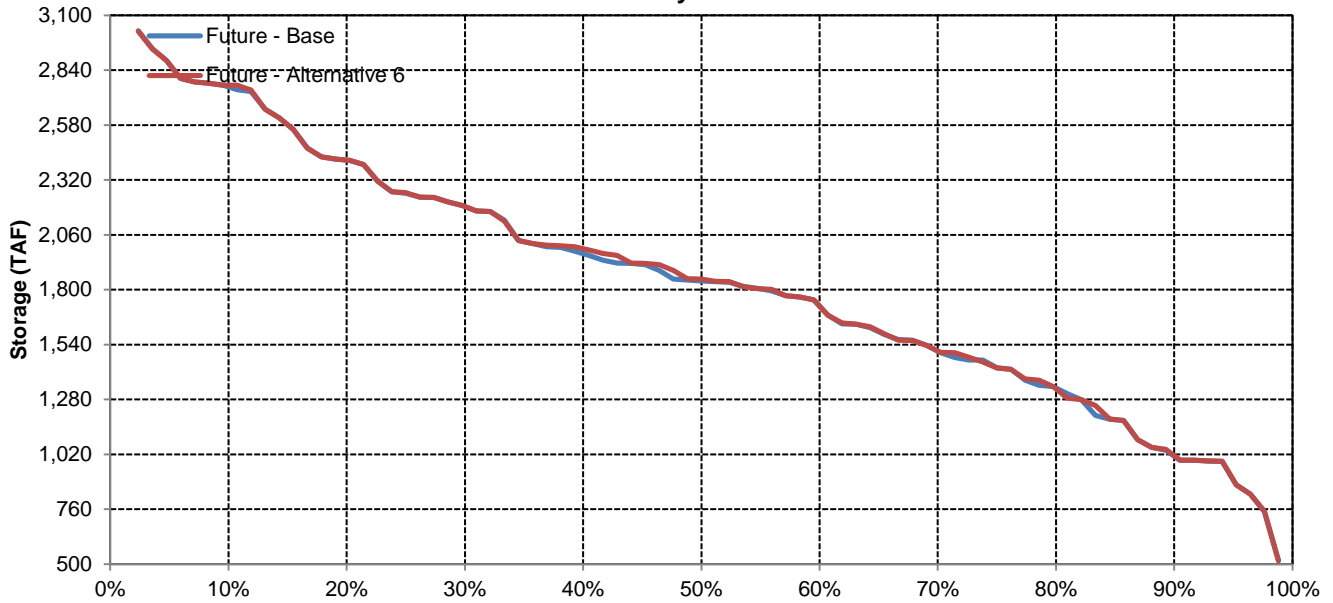


# Oroville Reservoir

## June

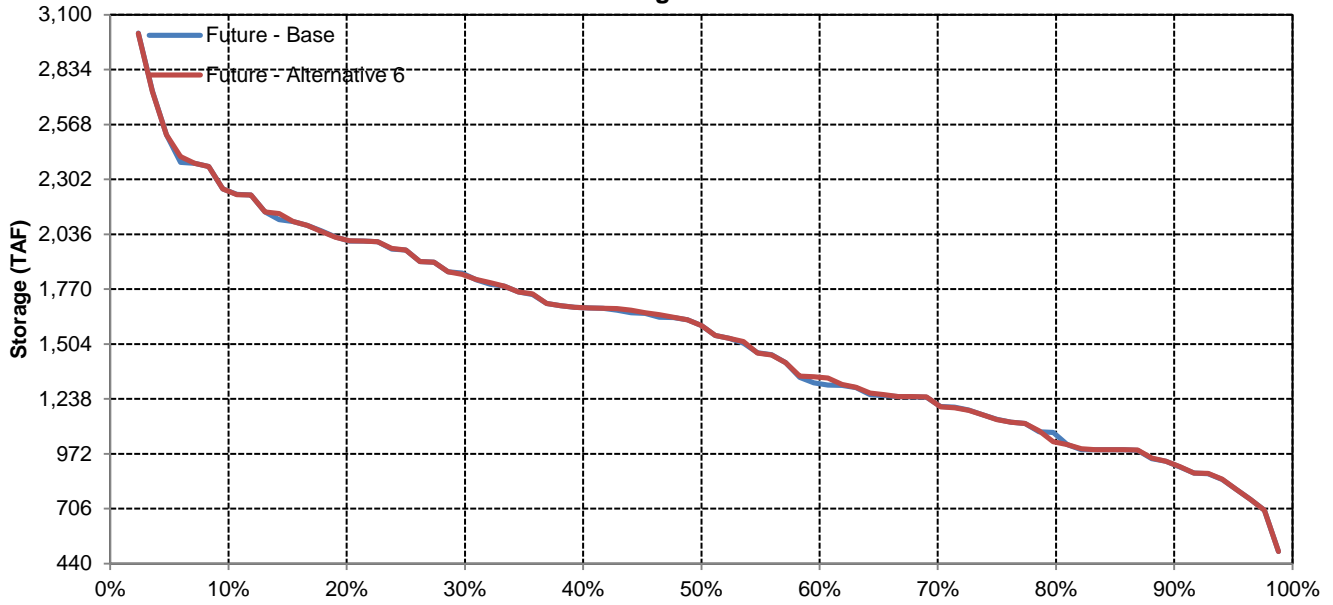


## July

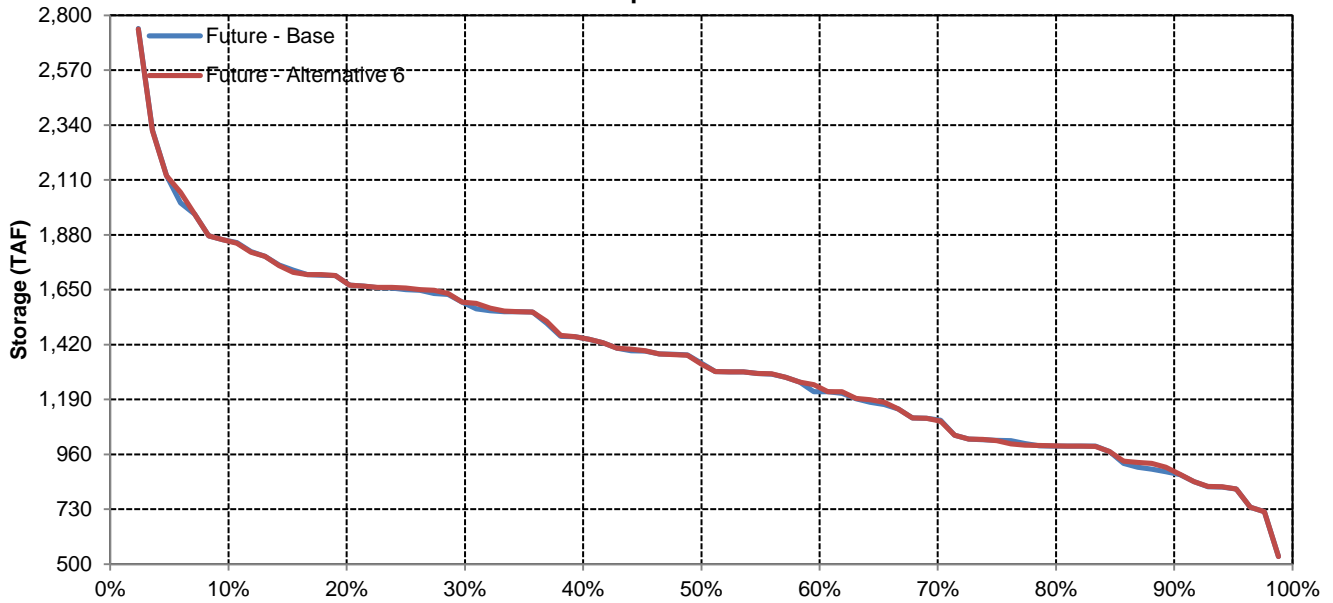


# Oroville Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	354	352	404	454	482	592	680	678	580	460	427	390
Future - Alternative 6	355	352	406	455	483	593	682	679	581	461	428	392
Difference	1	0	2	2	1	1	1	1	1	0	1	1
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	368	385	480	522	509	624	760	806	699	547	509	430
Future - Alternative 6	368	385	480	522	509	624	760	806	699	546	508	430
Difference	0	0	0	0	0	0	0	0	-1	-1	-1	0
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	363	358	415	512	550	644	766	766	668	492	471	427
Future - Alternative 6	365	357	415	512	550	644	766	766	668	492	471	426
Difference	2	-1	0	0	0	0	0	0	0	0	0	0
Percent Difference	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	375	361	399	471	508	624	727	714	609	493	465	455
Future - Alternative 6	375	362	400	471	508	624	727	714	610	495	467	457
Difference	1	1	1	0	0	0	0	0	1	1	2	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%
<b>Dry</b>												
Future - Base	336	332	372	411	477	592	646	596	489	395	356	357
Future - Alternative 6	337	333	373	412	478	592	646	596	491	396	359	360
Difference	1	1	2	2	1	0	0	0	1	1	2	2
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%
<b>Critical</b>												
Future - Base	321	298	288	306	341	440	436	418	360	317	287	256
Future - Alternative 6	323	299	298	314	349	447	444	424	364	318	286	260
Difference	1	2	10	8	7	8	8	6	4	1	0	4
Percent Difference	0%	1%	3%	3%	2%	2%	2%	1%	1%	0%	0%	2%

Folsom Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	487	501	567	567	567	662	792	939	828	636	580	540
20%	445	437	566	567	567	656	792	820	729	587	548	504
30%	395	394	498	564	563	652	792	763	694	549	519	455
40%	365	365	432	556	557	645	791	745	621	495	483	417
50%	349	342	392	507	549	629	766	706	592	443	413	396
60%	321	327	352	454	495	616	701	656	538	418	388	360
70%	304	311	319	372	443	590	635	600	500	383	356	333
80%	269	272	302	305	386	565	554	498	404	332	305	295
90%	223	217	252	260	302	426	437	426	355	311	276	231
<b>Long Term</b>												
Full Simulation Period	354	352	404	454	482	592	680	678	580	460	427	390
<b>Water Year Types</b>												
Wet	368	385	480	522	509	624	760	806	699	547	509	430
Above Normal	363	358	415	512	550	644	766	766	668	492	471	427
Below Normal	375	361	399	471	508	624	727	714	609	493	465	455
Dry	336	332	372	411	477	592	646	596	489	395	356	357
Critical	321	298	288	306	341	440	436	418	360	317	287	256

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	488	502	567	567	567	662	792	939	829	636	581	541
20%	442	437	564	567	567	656	792	820	729	587	548	503
30%	395	394	498	564	563	654	792	763	694	548	519	455
40%	372	363	434	556	557	646	791	745	621	495	483	421
50%	348	342	391	507	549	632	766	706	592	444	419	396
60%	320	327	352	454	495	618	700	656	537	417	388	360
70%	303	310	318	383	446	593	635	600	502	381	355	334
80%	270	272	303	305	386	565	554	498	404	331	306	295
90%	226	218	251	262	305	426	447	443	362	311	276	232
<b>Long Term</b>												
Full Simulation Period	355	352	406	455	483	593	682	679	581	461	428	392
<b>Water Year Types</b>												
Wet	368	385	480	522	509	624	760	806	699	546	508	430
Above Normal	365	357	415	512	550	644	766	766	668	492	471	426
Below Normal	375	362	400	471	508	624	727	714	610	495	467	457
Dry	337	333	373	412	478	592	646	596	491	396	359	360
Critical	323	299	298	314	349	447	444	424	364	318	286	260

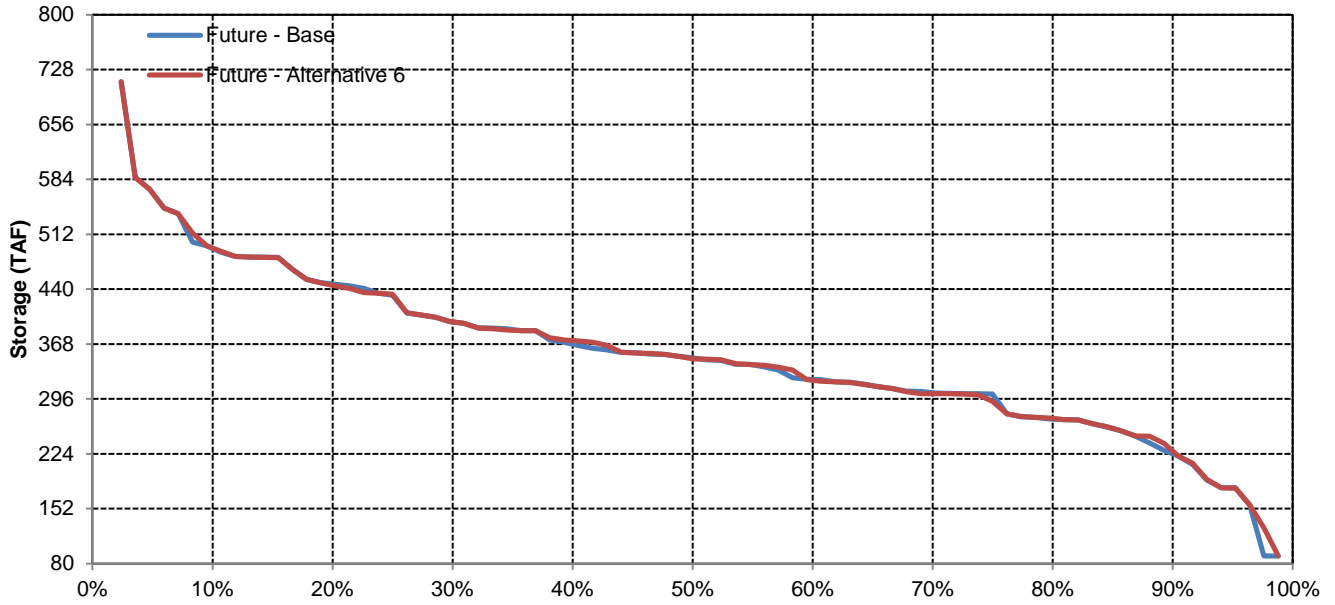
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	1	0	0	0	0	0	0	0	0	1	1
20%	-3	0	-2	0	0	0	0	0	0	0	0	-1
30%	0	0	0	0	0	2	0	0	0	-1	0	0
40%	7	-2	1	0	0	1	0	0	0	-1	-1	4
50%	0	0	0	0	0	3	0	0	0	1	5	0
60%	-2	0	0	0	0	2	0	0	0	-1	0	1
70%	-1	-1	0	11	3	3	0	0	1	-3	-2	0
80%	1	0	0	0	0	0	0	0	0	-1	1	0
90%	3	1	0	1	4	0	10	17	8	1	0	1
<b>Long Term</b>												
Full Simulation Period	1	0	2	2	1	1	1	1	1	0	1	1
<b>Water Year Types</b>												
Wet	0	0	0	0	0	0	0	0	-1	-1	-1	0
Above Normal	2	-1	0	0	0	0	0	0	0	0	0	0
Below Normal	1	1	1	0	0	0	0	0	1	1	2	2
Dry	1	1	2	2	1	0	0	0	1	1	2	2
Critical	1	2	10	8	7	8	8	6	4	1	0	4

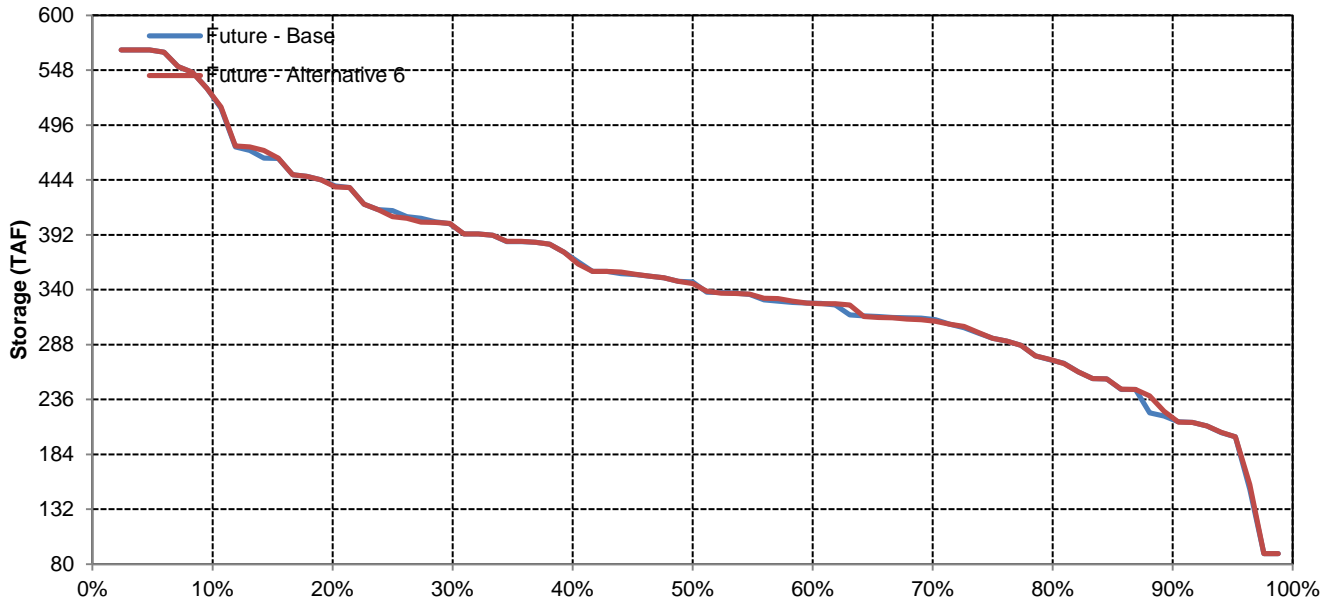


# Folsom Reservoir

## October

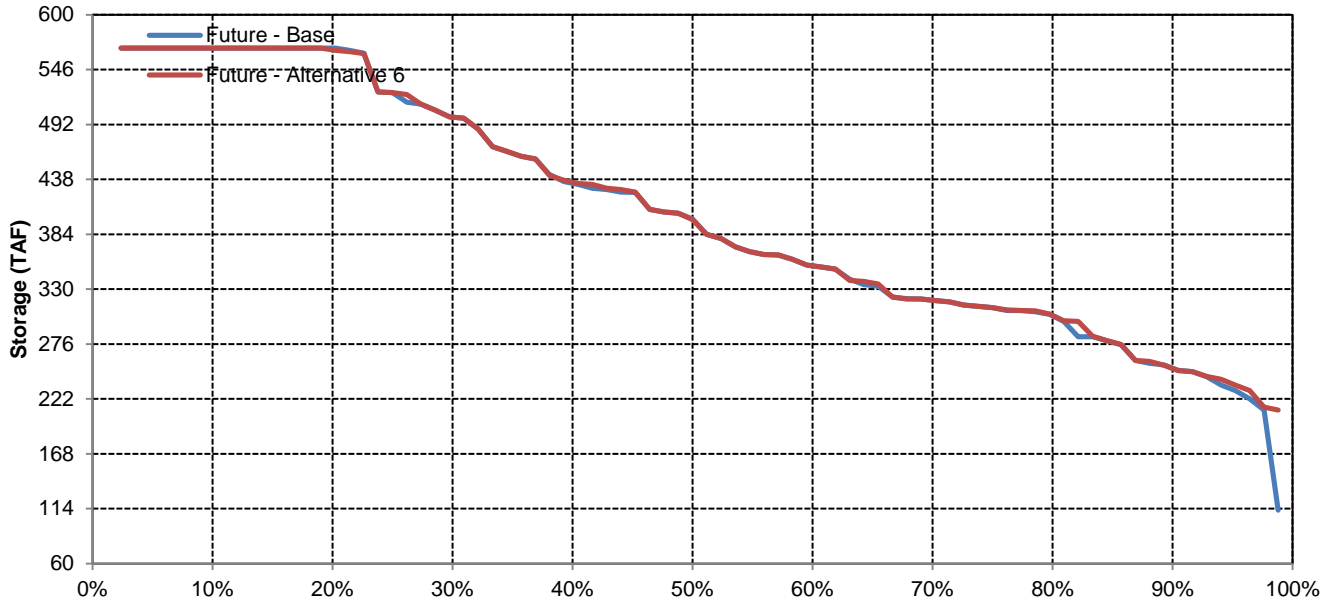


## November

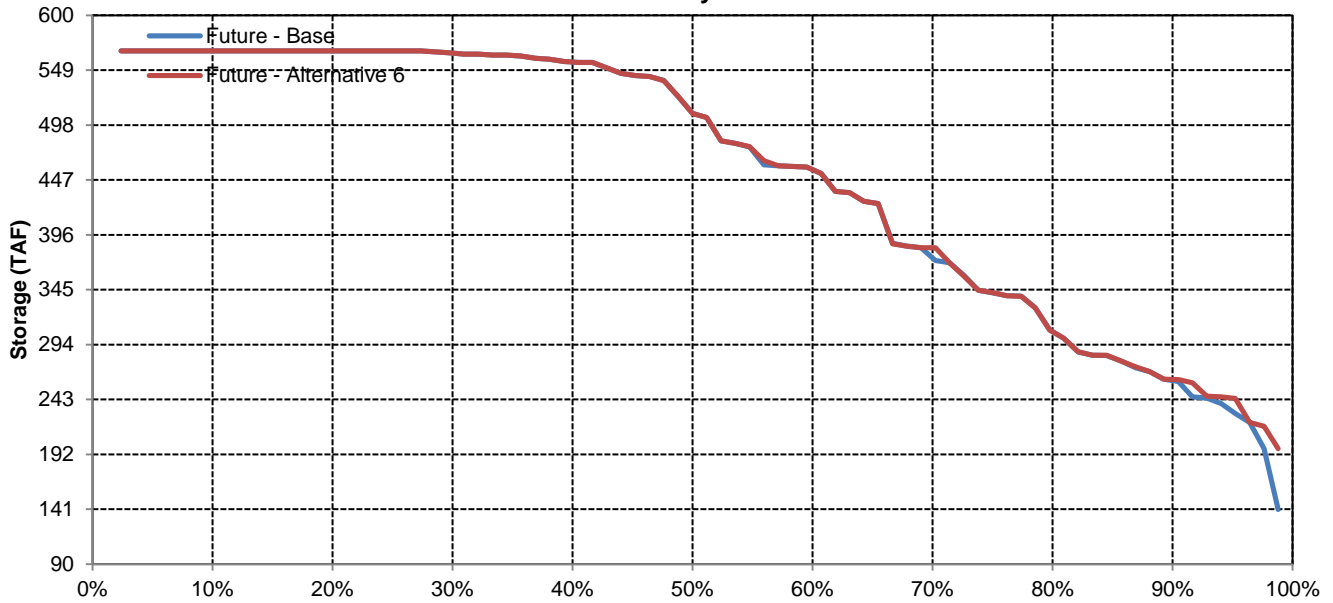


# Folsom Reservoir

## December

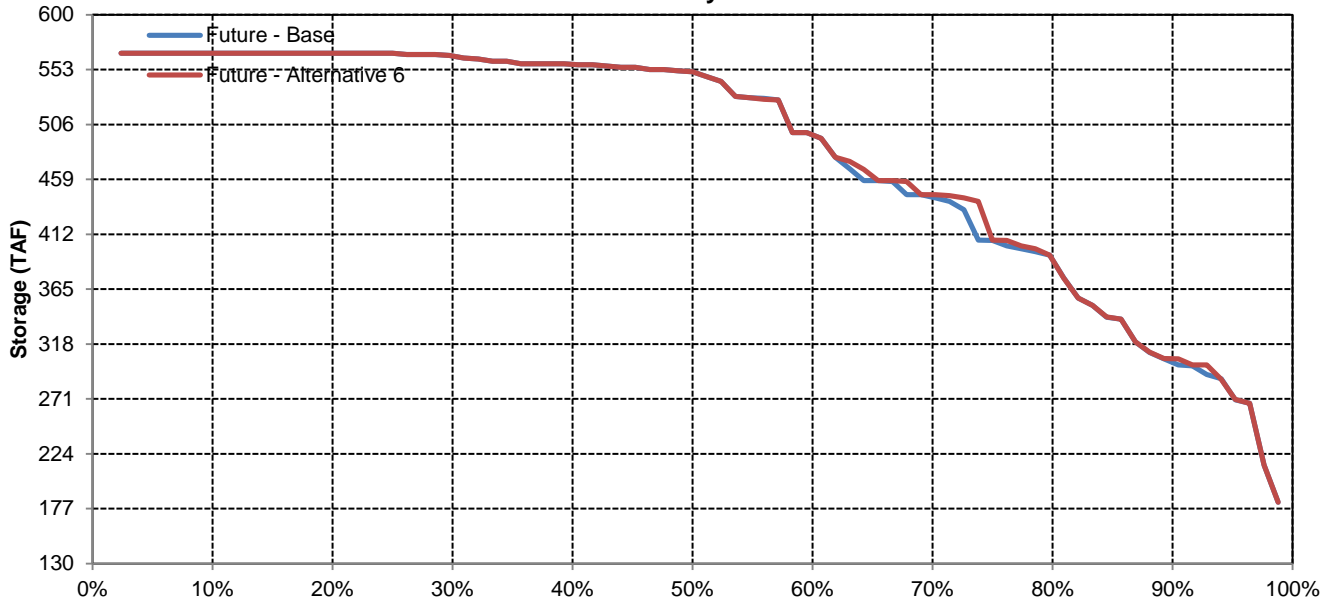


## January

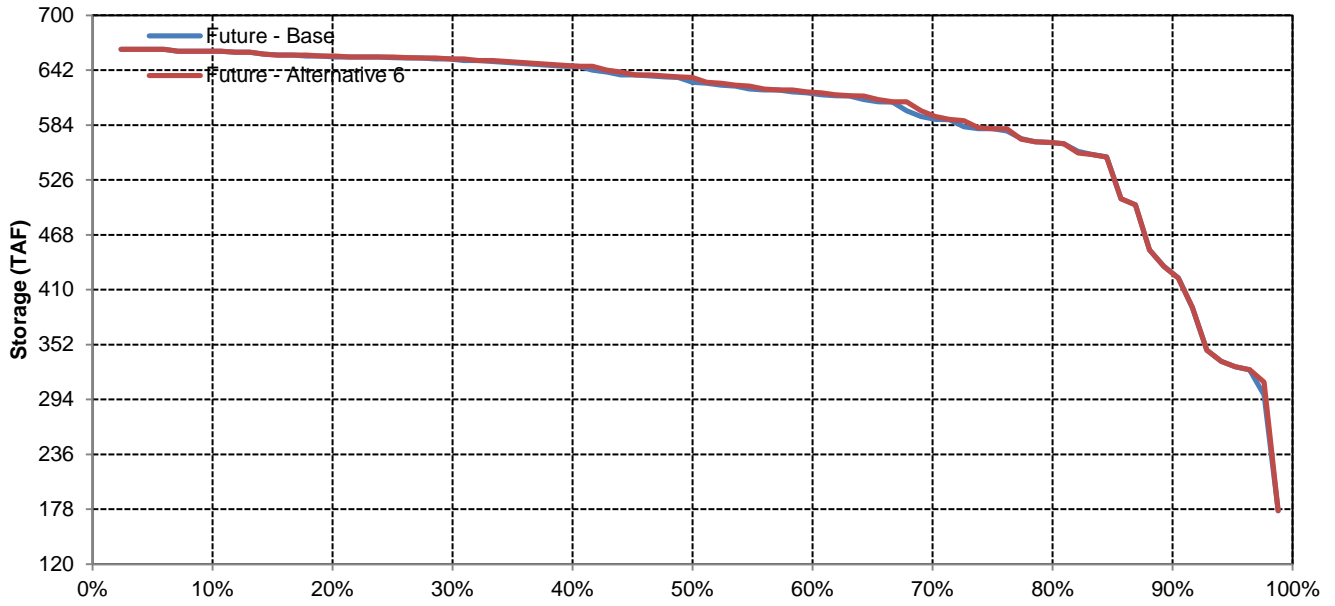


# Folsom Reservoir

## February

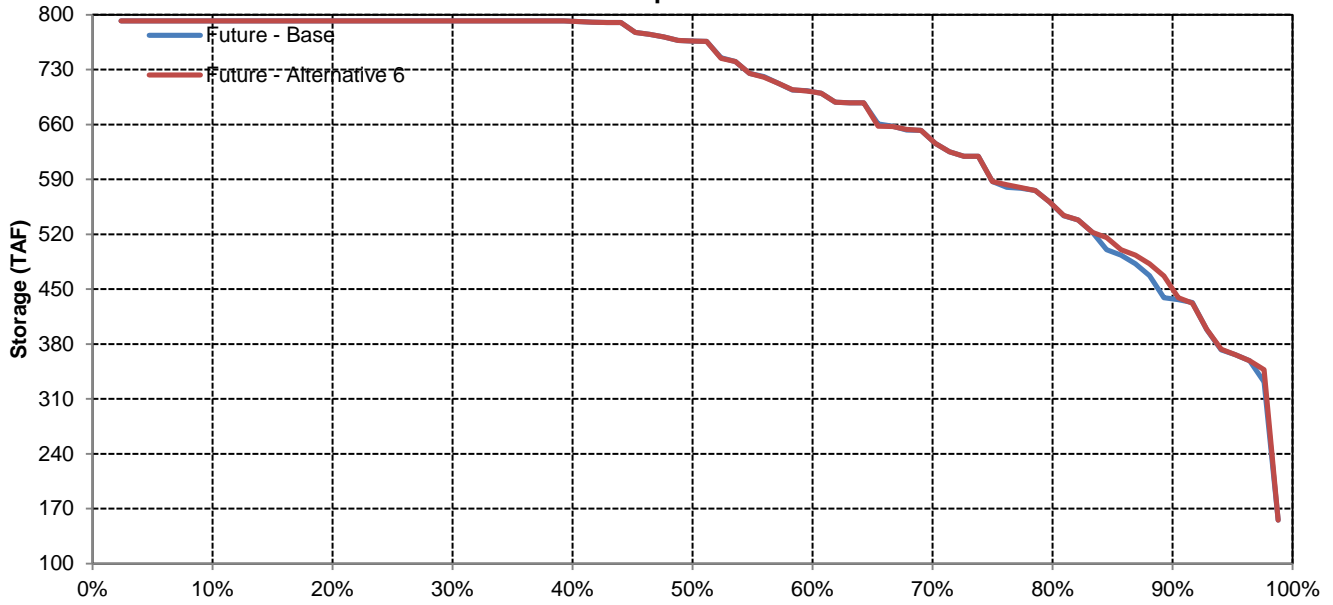


## March

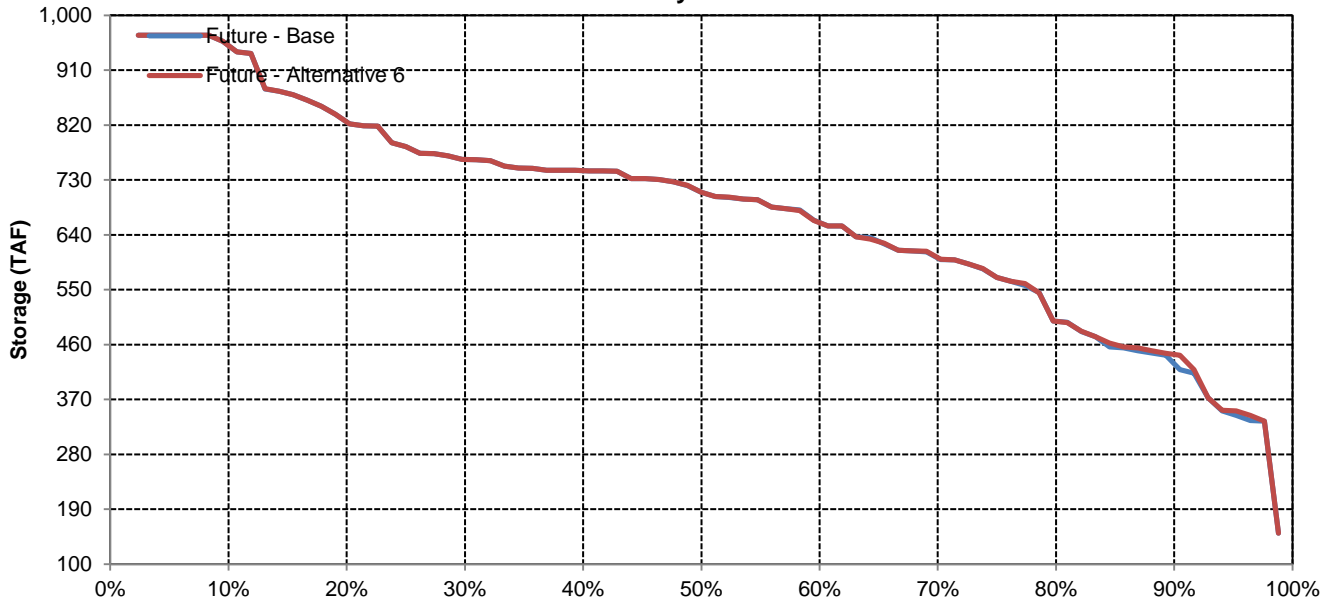


# Folsom Reservoir

## April

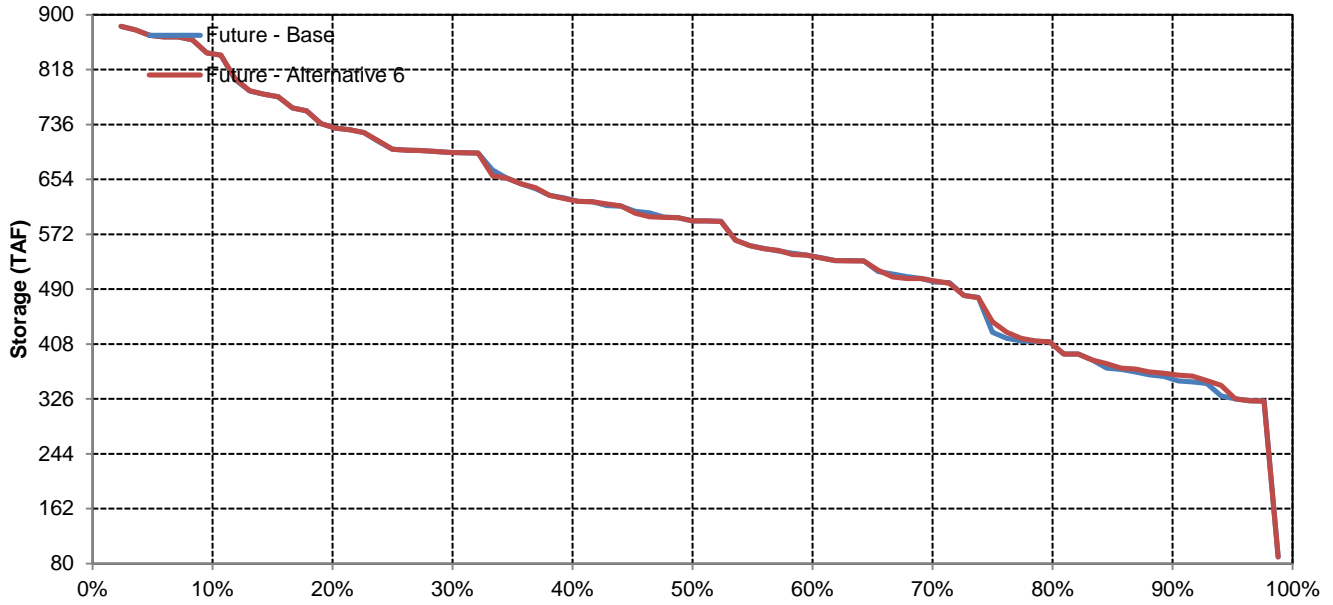


## May

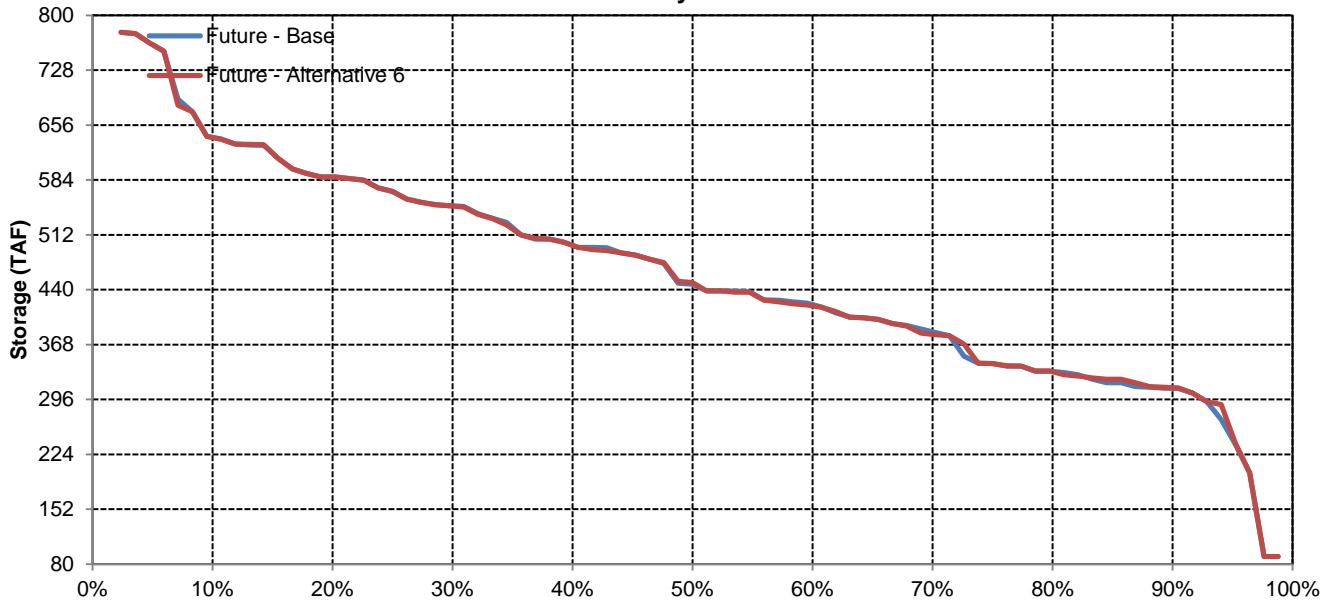


# Folsom Reservoir

## June

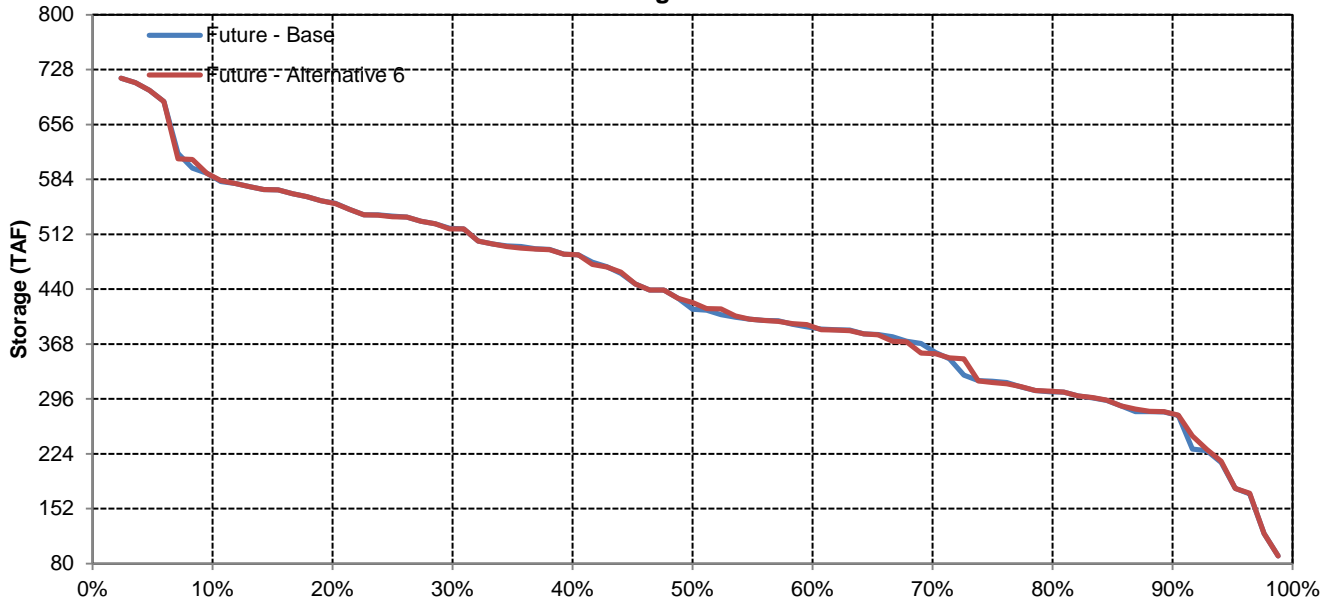


## July

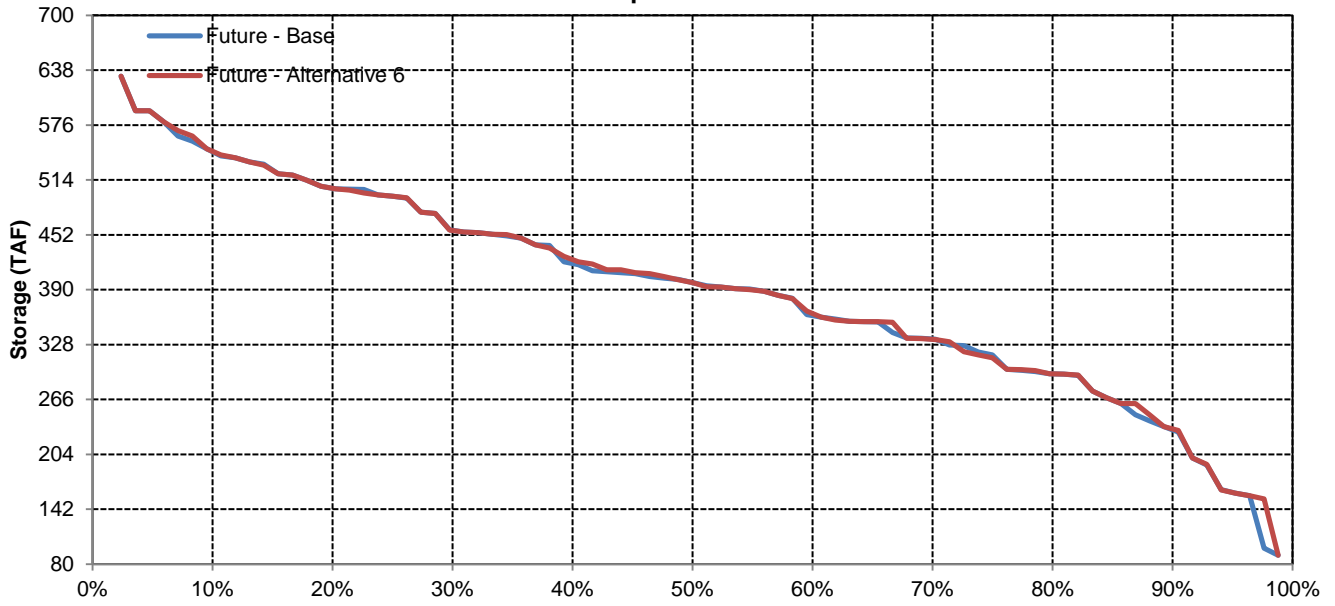


# Folsom Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	218	294	461	615	743	823	788	682	578	413	314	270
Future - Alternative 6	216	291	457	611	740	821	786	680	576	412	311	267
Difference	-2	-2	-4	-4	-3	-2	-2	-2	-2	-1	-3	-3
Percent Difference	-1%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%	-1%	-1%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	203	294	487	682	836	918	880	792	678	499	390	304
Future - Alternative 6	199	290	482	678	832	918	878	790	674	497	386	301
Difference	-4	-4	-5	-3	-4	0	-2	-2	-4	-2	-4	-3
Percent Difference	-2%	-1%	-1%	0%	0%	0%	0%	0%	-1%	0%	-1%	-1%
<b>Above Normal</b>												
Future - Base	215	289	456	607	754	844	802	668	594	409	303	202
Future - Alternative 6	213	285	446	596	748	844	802	667	594	409	302	202
Difference	-2	-3	-10	-11	-6	0	0	0	-1	0	-1	-1
Percent Difference	-1%	-1%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>												
Future - Base	237	280	459	588	713	836	815	706	632	430	313	312
Future - Alternative 6	237	279	457	583	709	832	811	702	632	430	310	309
Difference	0	-1	-2	-5	-4	-4	-3	-4	0	0	-4	-3
Percent Difference	0%	0%	0%	-1%	-1%	0%	0%	-1%	0%	0%	-1%	-1%
<b>Dry</b>												
Future - Base	211	284	442	576	689	772	742	621	516	359	253	240
Future - Alternative 6	208	281	440	573	689	771	741	620	514	358	252	238
Difference	-3	-3	-2	-3	0	-1	-1	-1	-2	-1	-2	-1
Percent Difference	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
<b>Critical</b>												
Future - Base	242	329	444	571	654	666	621	536	395	302	263	262
Future - Alternative 6	245	330	444	569	651	662	617	533	391	299	258	257
Difference	3	1	0	-2	-3	-4	-4	-3	-4	-3	-5	-5
Percent Difference	1%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-2%	-2%

CVP San Luis Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	442	574	764	972	972	972	972	909	861	675	596	517
20%	367	426	607	826	972	972	958	858	767	563	489	434
30%	272	373	528	720	942	972	913	806	702	492	413	347
40%	209	298	476	659	826	967	889	768	647	455	316	289
50%	160	269	425	581	736	883	869	715	609	394	256	223
60%	118	232	369	521	682	833	793	636	539	340	226	161
70%	90	173	327	477	630	718	665	571	458	287	190	132
80%	90	122	284	432	554	658	611	480	404	238	140	91
90%	90	90	246	370	439	573	531	393	274	197	110	90
<b>Long Term</b>												
Full Simulation Period	218	294	461	615	743	823	788	682	578	413	314	270
<b>Water Year Types</b>												
Wet	203	294	487	682	836	918	880	792	678	499	390	304
Above Normal	215	289	456	607	754	844	802	668	594	409	303	202
Below Normal	237	280	459	588	713	836	815	706	632	430	313	312
Dry	211	284	442	576	689	772	742	621	516	359	253	240
Critical	242	329	444	571	654	666	621	536	395	302	263	262

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	443	577	774	972	972	972	972	909	860	675	596	518
20%	361	424	587	818	972	972	958	858	767	563	493	432
30%	271	374	531	724	928	972	913	806	701	491	392	346
40%	195	296	472	646	825	969	886	760	646	452	314	289
50%	157	268	423	579	720	876	865	718	613	392	256	221
60%	116	229	370	512	681	833	798	644	529	340	226	157
70%	90	173	327	477	629	716	661	565	446	279	189	127
80%	90	122	275	434	555	655	608	482	403	238	135	92
90%	90	90	251	370	439	569	520	394	282	197	106	90
<b>Long Term</b>												
Full Simulation Period	216	291	457	611	740	821	786	680	576	412	311	267
<b>Water Year Types</b>												
Wet	199	290	482	678	832	918	878	790	674	497	386	301
Above Normal	213	285	446	596	748	844	802	667	594	409	302	202
Below Normal	237	279	457	583	709	832	811	702	632	430	310	309
Dry	208	281	440	573	689	771	741	620	514	358	252	238
Critical	245	330	444	569	651	662	617	533	391	299	258	257

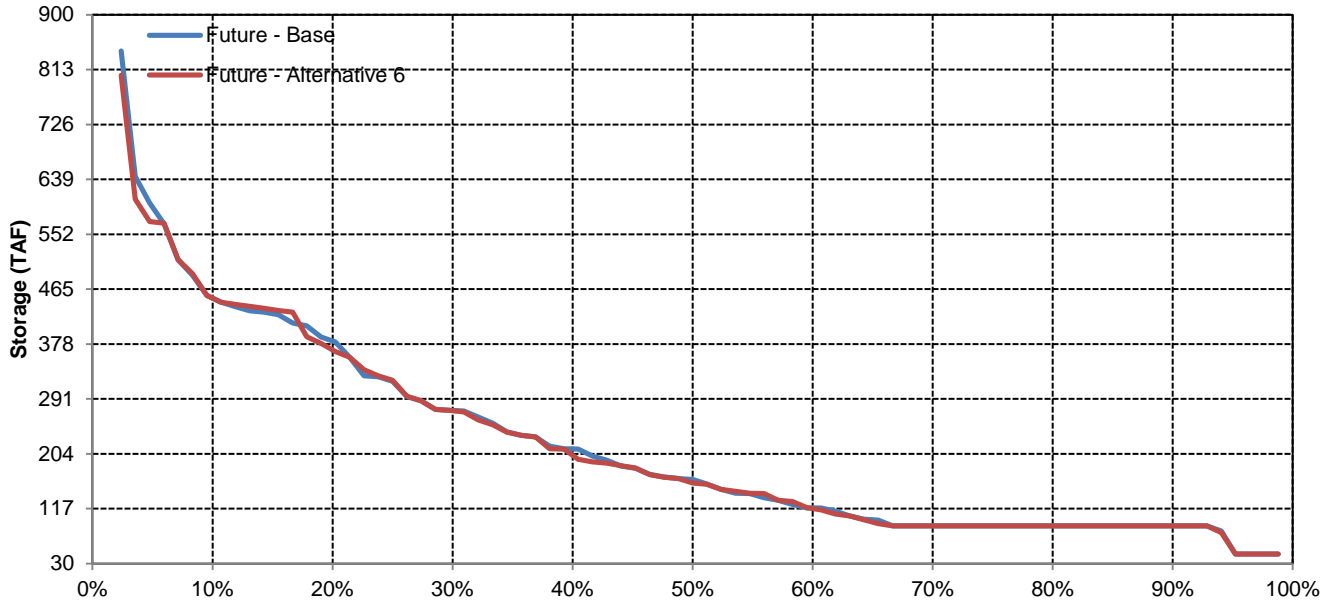
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	3	10	0	0	0	0	0	0	0	0	1
20%	-6	-2	-20	-9	0	0	0	0	0	0	3	-3
30%	-1	1	3	4	-14	0	0	0	0	-2	-21	-1
40%	-15	-3	-4	-14	-1	2	-3	-7	-1	-3	-2	0
50%	-3	-1	-3	-1	-16	-7	-3	3	4	-2	0	-2
60%	-2	-2	1	-8	-1	0	5	8	-10	0	0	-4
70%	0	0	0	0	0	-2	-4	-6	-12	-9	-1	-5
80%	0	0	-9	2	1	-4	-3	2	-1	0	-5	1
90%	0	0	6	0	0	-4	-11	0	8	0	-4	0
<b>Long Term</b>												
Full Simulation Period	-2	-2	-4	-4	-3	-2	-2	-2	-2	-1	-3	-3
<b>Water Year Types</b>												
Wet	-4	-4	-5	-3	-4	0	-2	-2	-4	-2	-4	-3
Above Normal	-2	-3	-10	-11	-6	0	0	0	-1	0	-1	-1
Below Normal	0	-1	-2	-5	-4	-4	-3	-4	0	0	-4	-3
Dry	-3	-3	-2	-3	0	-1	-1	-1	-2	-1	-2	-1
Critical	3	1	0	-2	-3	-4	-4	-3	-4	-3	-5	-5

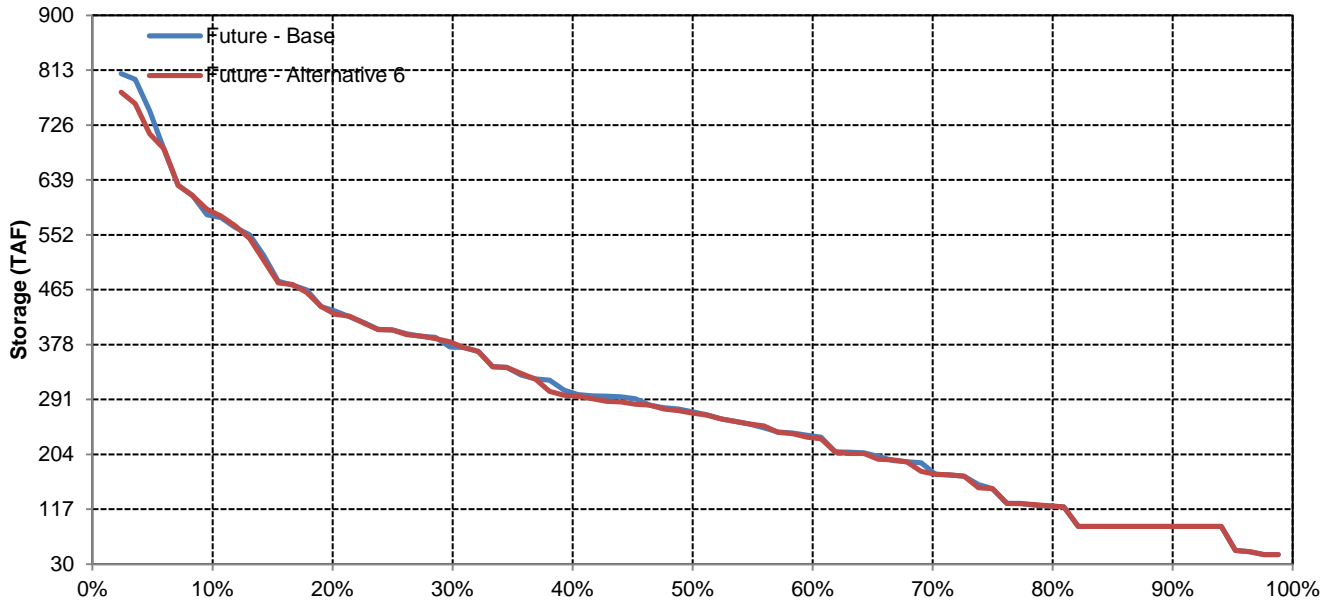


# CVP San Luis Reservoir

## October

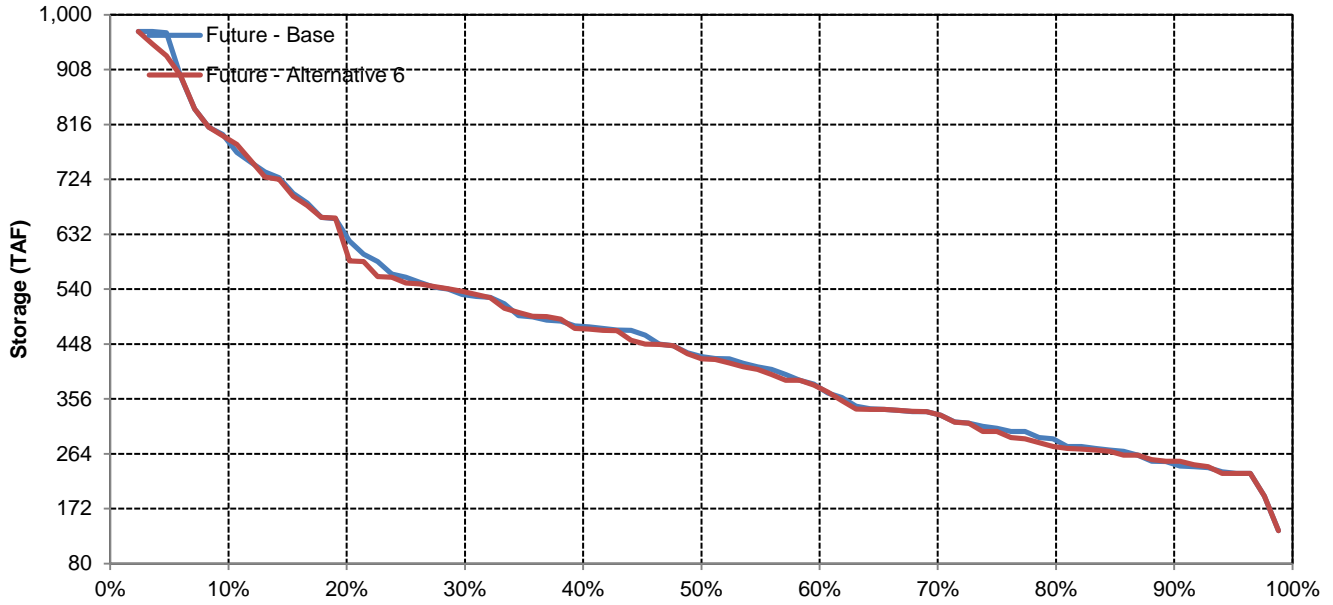


## November

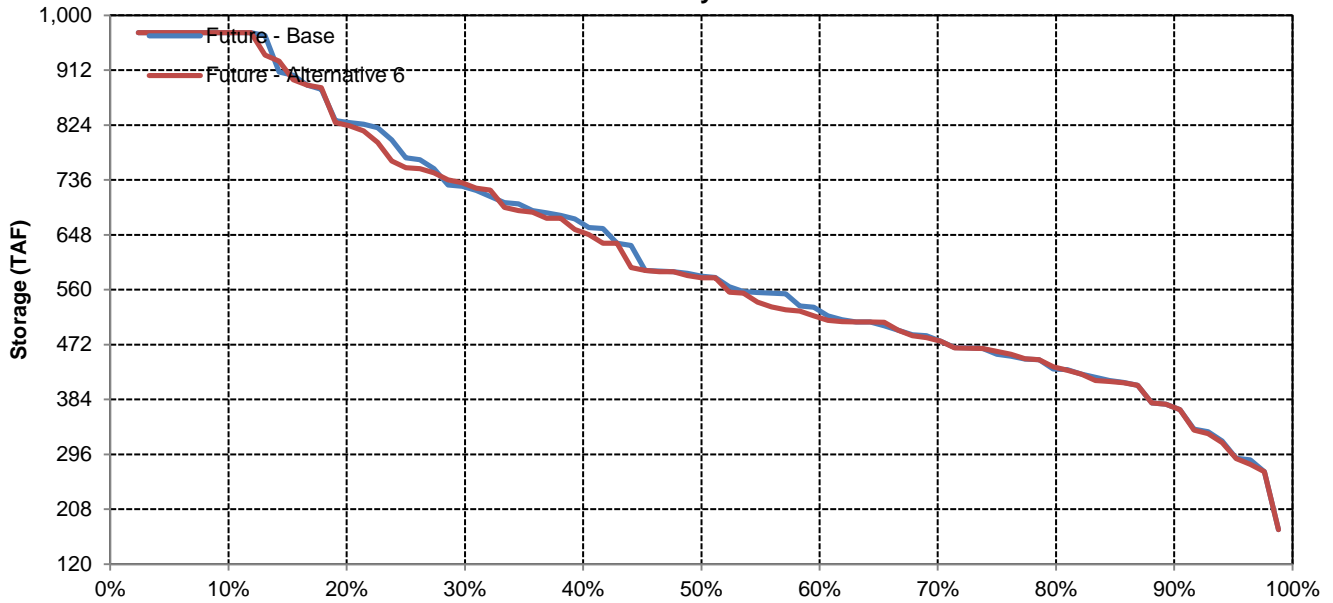


# CVP San Luis Reservoir

## December

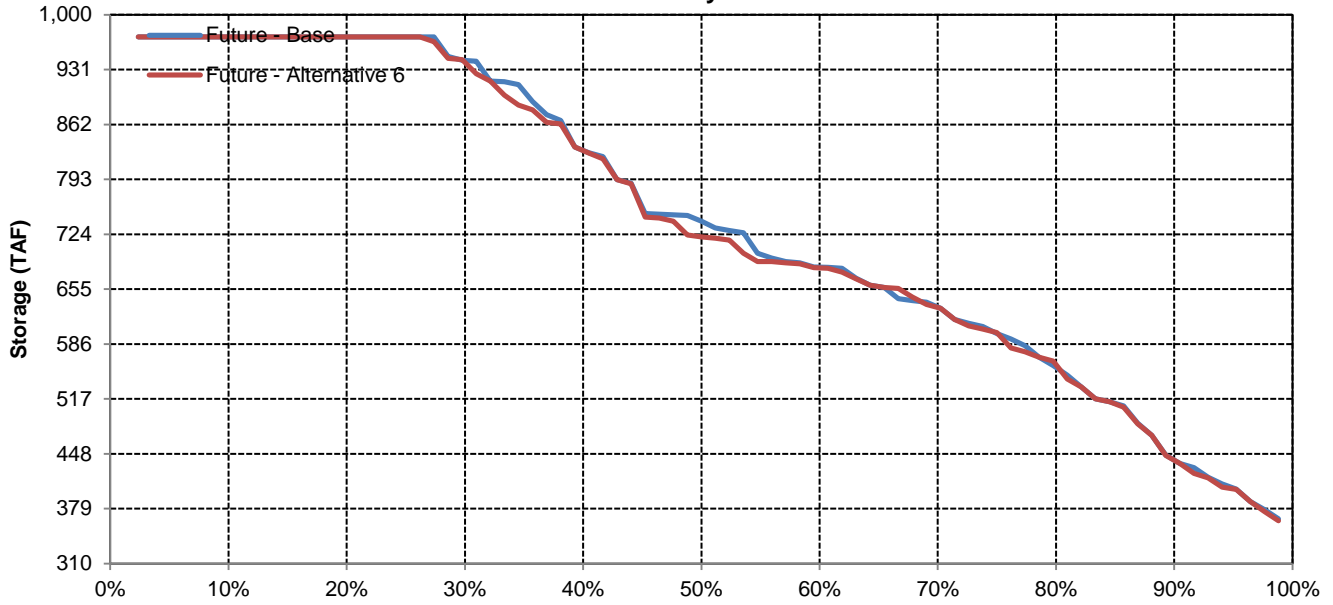


## January

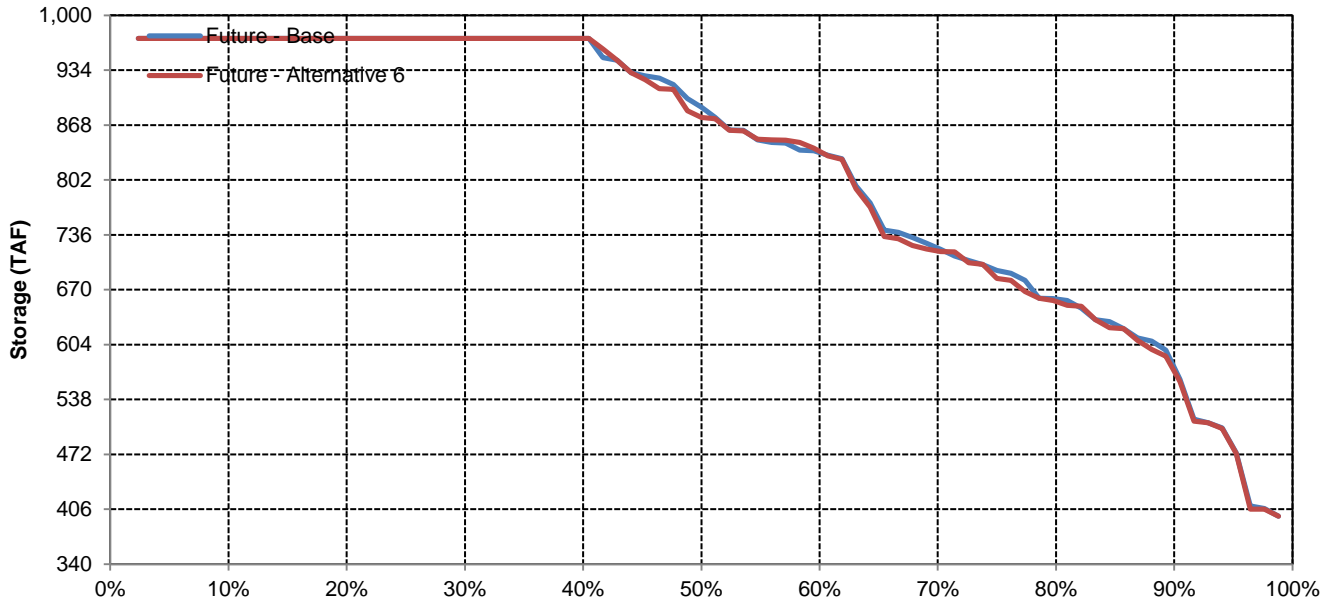


# CVP San Luis Reservoir

## February

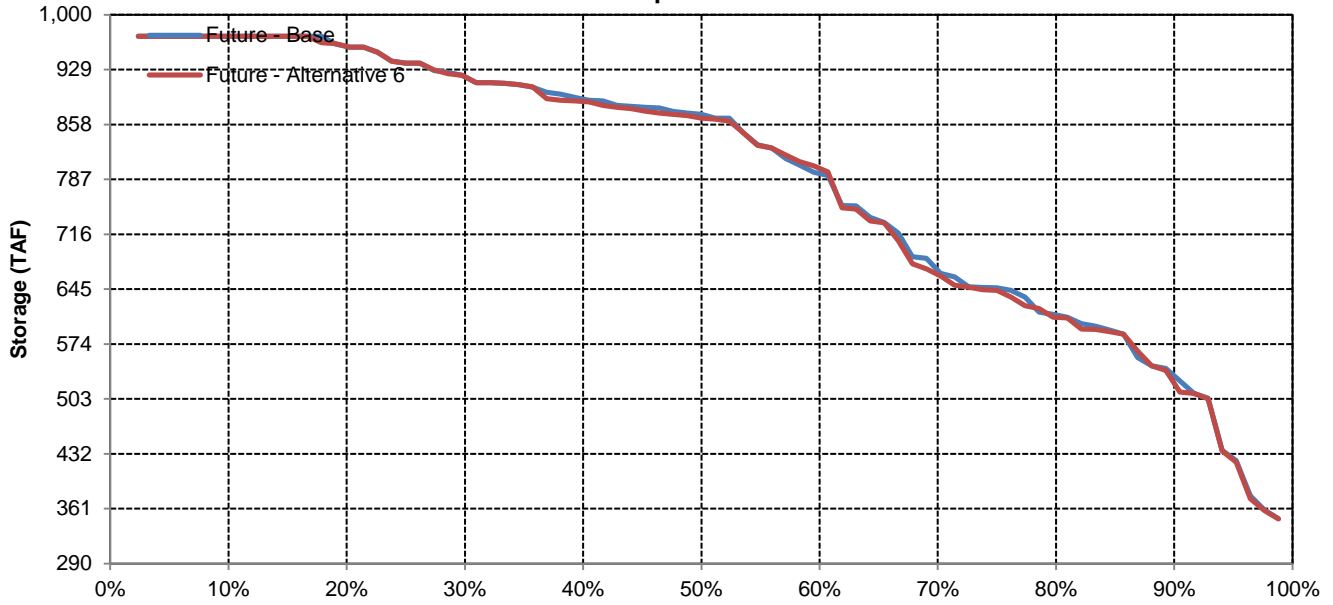


## March

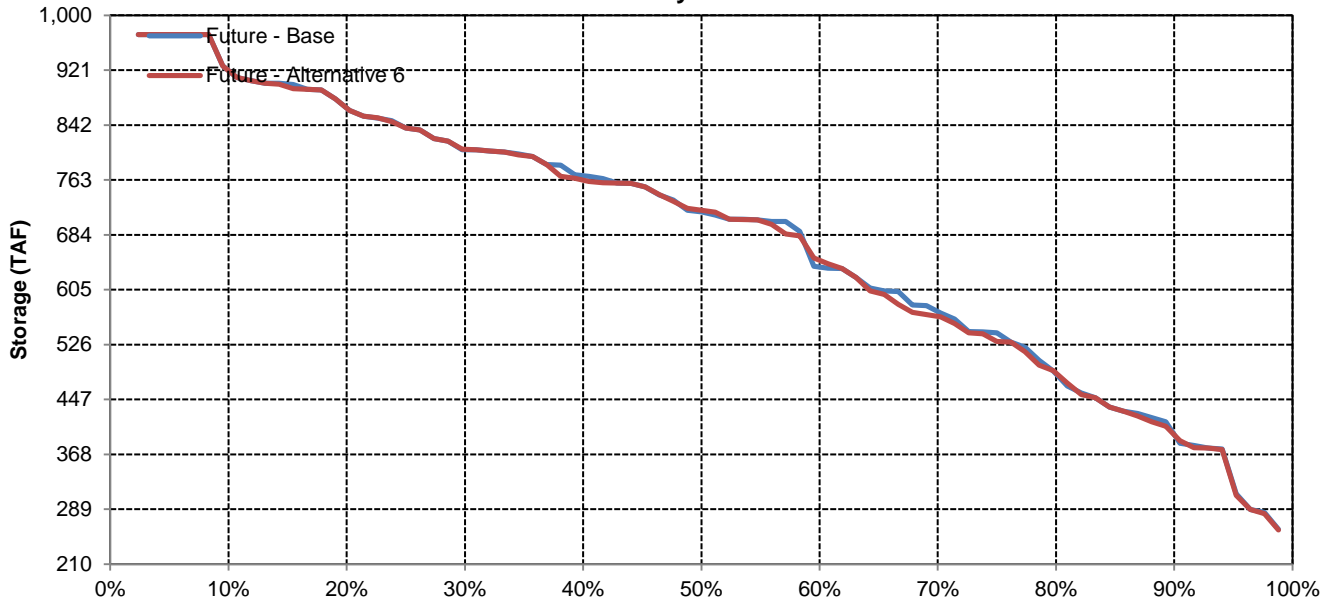


# CVP San Luis Reservoir

## April

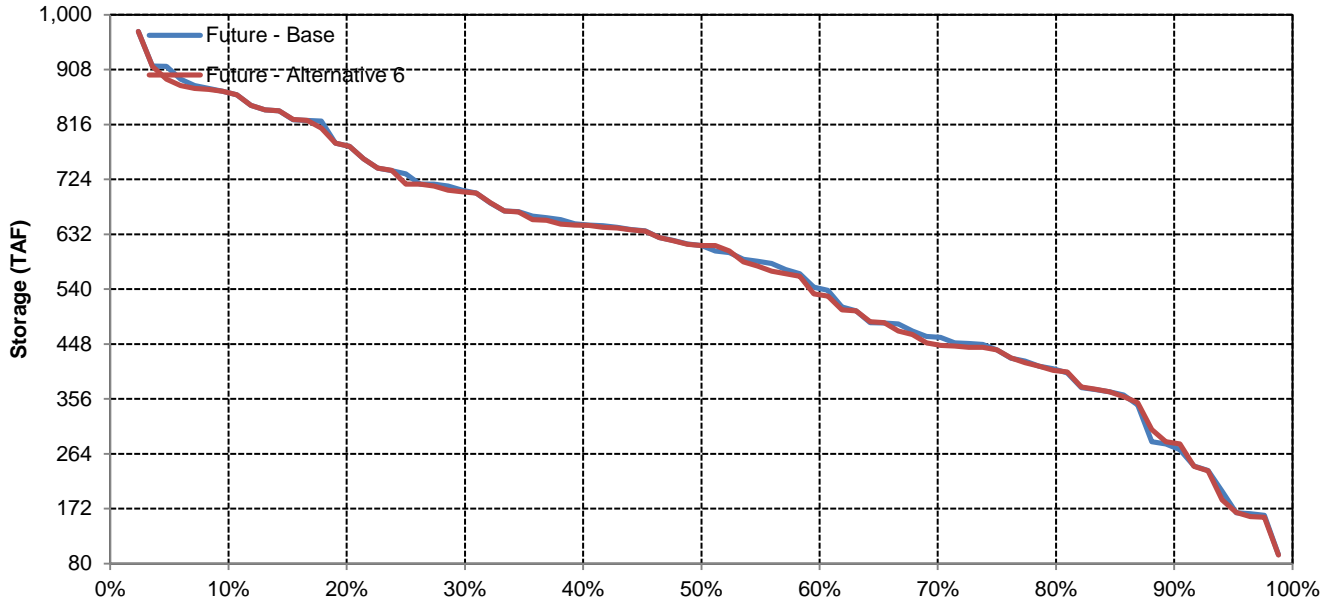


## May

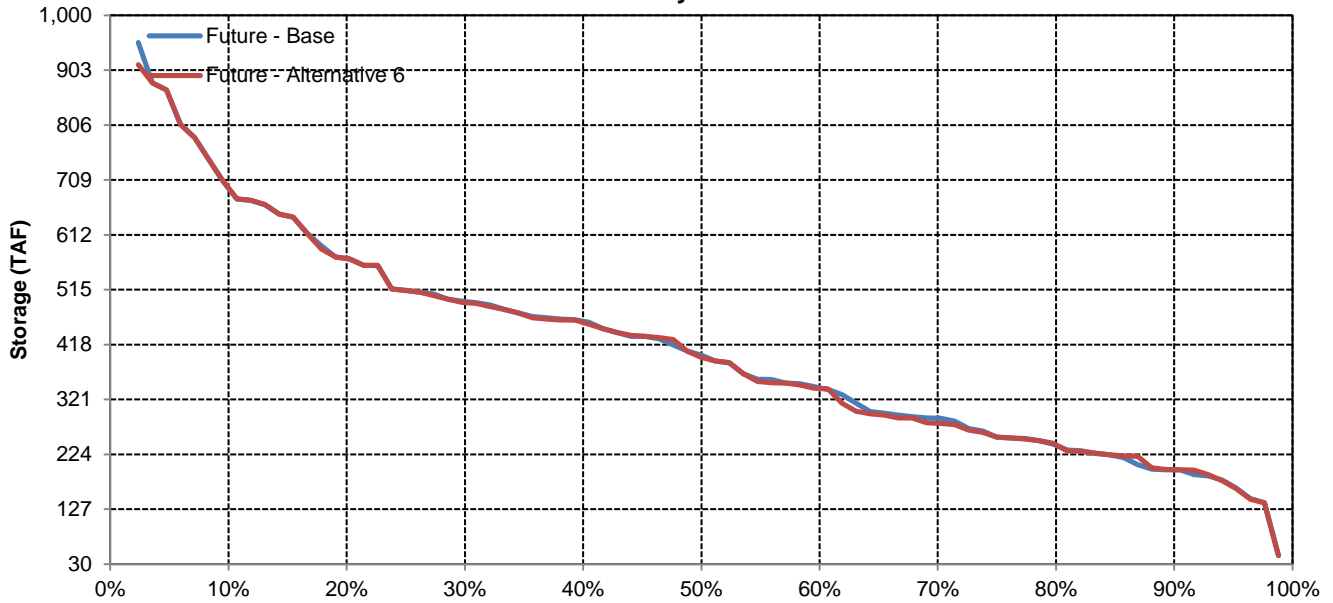


# CVP San Luis Reservoir

## June

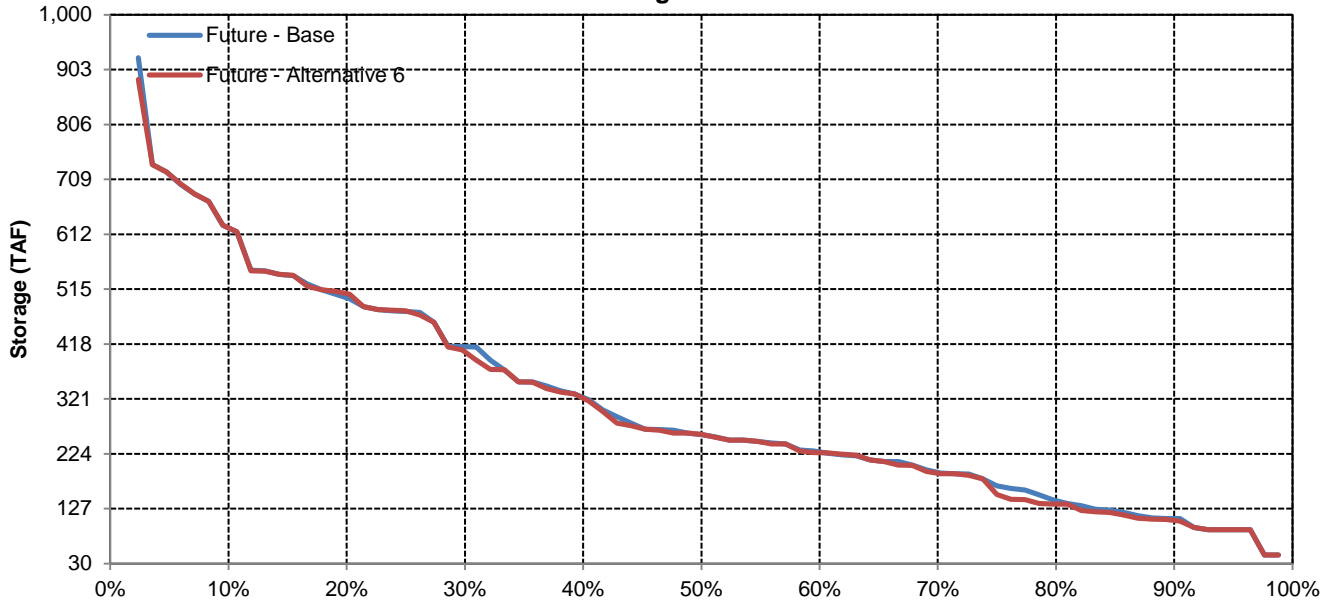


## July

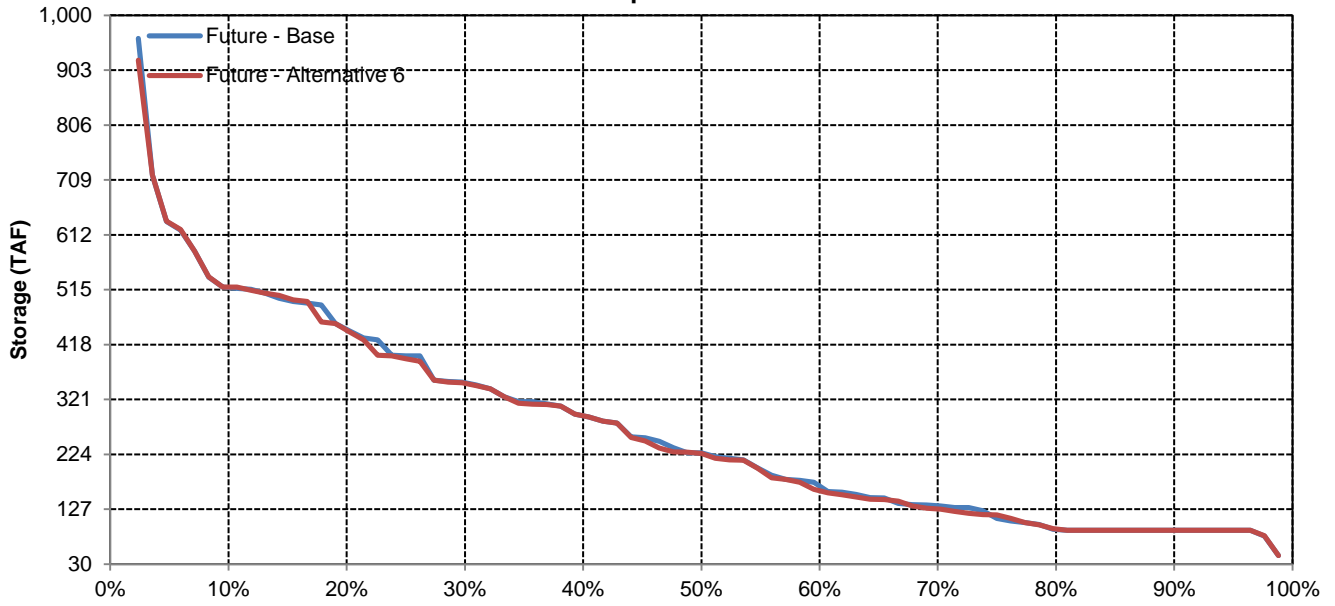


# CVP San Luis Reservoir

## August



## September



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

Analysis Period	Average Storage (TAF)											
	October	November	December	January	February	March	April	May	June	July	August	September
<b>Long-Term</b>												
<b>Full Simulation Period</b>												
Future - Base	181	218	351	573	767	885	811	640	506	467	355	257
Future - Alternative 6	180	217	348	568	760	880	806	636	502	464	353	256
Difference	-1	-1	-3	-6	-6	-5	-5	-4	-4	-4	-2	-1
Percent Difference	-1%	0%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	-1%
<b>Water Year-Types</b>												
<b>Wet</b>												
Future - Base	203	282	505	823	1,011	1,058	951	746	542	550	458	320
Future - Alternative 6	202	282	501	816	1,007	1,058	950	745	544	551	457	319
Difference	0	0	-4	-7	-3	0	-1	-1	2	1	-1	-1
Percent Difference	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>												
Future - Base	154	177	288	602	890	1,035	904	639	536	533	415	285
Future - Alternative 6	150	175	278	589	881	1,027	897	633	531	529	411	283
Difference	-4	-2	-11	-13	-10	-8	-7	-6	-5	-5	-3	-2
Percent Difference	-2%	-1%	-4%	-2%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
<b>Below Normal</b>												
Future - Base	158	169	276	398	650	887	815	629	522	492	321	226
Future - Alternative 6	159	169	273	390	637	881	808	620	504	475	316	222
Difference	0	0	-3	-8	-12	-7	-7	-9	-18	-17	-5	-4
Percent Difference	0%	0%	-1%	-2%	-2%	-1%	-1%	-1%	-3%	-3%	-2%	-2%
<b>Dry</b>												
Future - Base	169	206	304	453	620	767	724	597	504	425	286	210
Future - Alternative 6	167	205	302	448	612	757	716	592	503	423	286	209
Difference	-2	-1	-2	-5	-8	-10	-8	-5	-1	-1	0	-1
Percent Difference	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%
<b>Critical</b>												
Future - Base	203	190	237	399	497	565	563	496	384	272	225	207
Future - Alternative 6	204	189	241	403	496	563	561	494	377	270	226	208
Difference	1	0	4	3	-1	-2	-2	-2	-6	-3	1	1
Percent Difference	0%	0%	2%	1%	0%	0%	0%	0%	-2%	-1%	0%	0%

SWP San Luis Reservoir

Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	315	489	775	1,067	1,067	1,067	1,021	828	699	642	503	311
20%	247	327	590	954	1,067	1,067	959	755	649	601	410	291
30%	211	266	394	761	1,067	1,067	945	701	621	551	383	268
40%	165	235	339	664	984	1,067	921	680	601	539	371	243
50%	145	178	282	538	818	1,067	897	643	567	505	355	237
60%	128	94	223	455	664	944	869	621	492	462	333	225
70%	114	55	183	369	597	745	733	586	381	341	315	210
80%	90	55	116	243	482	636	621	505	332	279	229	196
90%	55	55	59	155	322	485	503	404	248	235	165	156
<b>Long Term</b>												
Full Simulation Period	181	218	351	573	767	885	811	640	506	467	355	257
<b>Water Year Types</b>												
Wet	203	282	505	823	1,011	1,058	951	746	542	550	458	320
Above Normal	154	177	288	602	890	1,035	904	639	536	533	415	285
Below Normal	158	169	276	398	650	887	815	629	522	492	321	226
Dry	169	206	304	453	620	767	724	597	504	425	286	210
Critical	203	190	237	399	497	565	563	496	384	272	225	207

Future - Alternative 6

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	316	475	783	1,067	1,067	1,067	1,018	828	701	635	505	311
20%	248	331	586	955	1,067	1,067	957	744	645	601	411	291
30%	200	266	386	741	1,067	1,067	941	700	615	556	383	269
40%	161	240	323	639	983	1,067	914	678	598	539	371	243
50%	143	172	283	509	770	1,067	892	643	552	497	352	236
60%	129	81	222	440	659	942	862	619	490	462	337	224
70%	110	55	168	358	585	746	739	581	381	324	311	207
80%	90	55	121	240	472	624	604	477	325	270	218	192
90%	55	55	59	154	310	482	495	406	248	229	166	151
<b>Long Term</b>												
Full Simulation Period	180	217	348	568	760	880	806	636	502	464	353	256
<b>Water Year Types</b>												
Wet	202	282	501	816	1,007	1,058	950	745	544	551	457	319
Above Normal	150	175	278	589	881	1,027	897	633	531	529	411	283
Below Normal	159	169	273	390	637	881	808	620	504	475	316	222
Dry	167	205	302	448	612	757	716	592	503	423	286	209
Critical	204	189	241	403	496	563	561	494	377	270	226	208

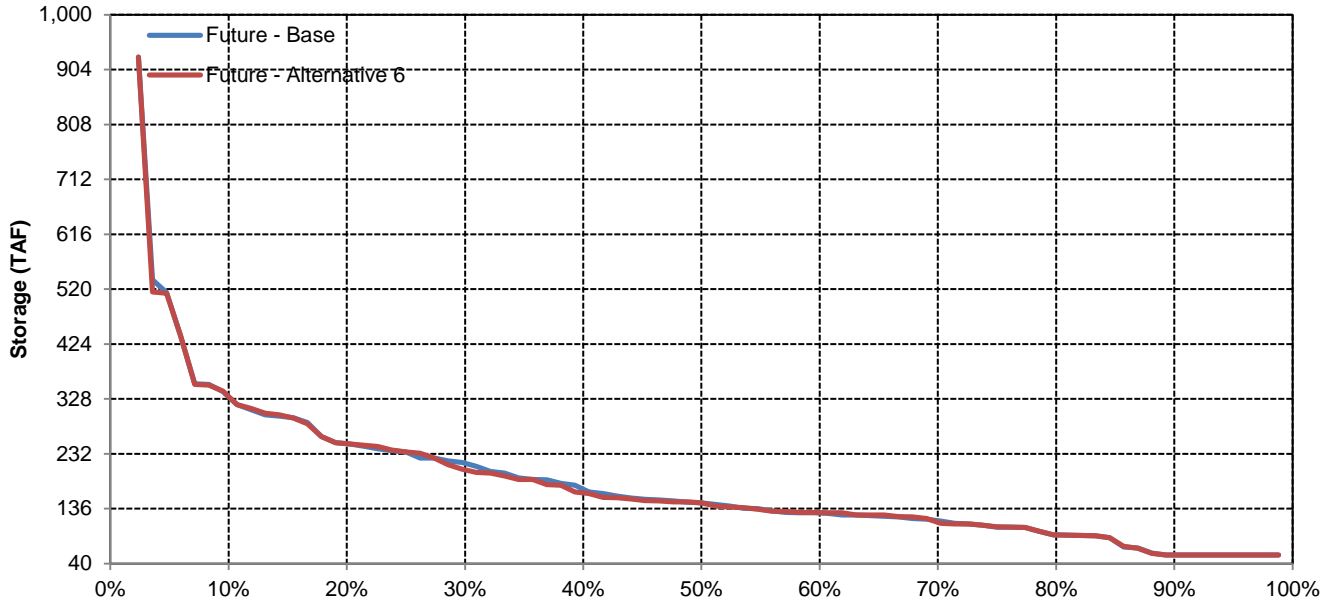
Future - Alternative 6 Minus Future - Base

Statistic	End-of-Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	1	-14	8	0	0	0	-3	0	2	-7	3	0
20%	1	4	-4	1	0	0	-2	-12	-4	-1	1	0
30%	-11	0	-9	-21	0	0	-4	-1	-6	5	0	0
40%	-3	5	-16	-25	0	0	-7	-2	-4	0	0	0
50%	-1	-6	1	-29	-48	0	-4	0	-16	-8	-3	-1
60%	1	-13	0	-15	-5	-2	-8	-2	-2	0	4	-1
70%	-4	0	-15	-11	-12	1	6	-5	0	-18	-5	-3
80%	0	0	5	-3	-10	-12	-17	-29	-6	-9	-11	-4
90%	0	0	0	-1	-12	-3	-8	1	0	-6	1	-6
<b>Long Term</b>												
Full Simulation Period	-1	-1	-3	-6	-6	-5	-5	-4	-4	-4	-2	-1
<b>Water Year Types</b>												
Wet	0	0	-4	-7	-3	0	-1	-1	2	1	-1	-1
Above Normal	-4	-2	-11	-13	-10	-8	-7	-6	-5	-5	-3	-2
Below Normal	0	0	-3	-8	-12	-7	-7	-9	-18	-17	-5	-4
Dry	-2	-1	-2	-5	-8	-10	-8	-5	-1	-1	0	-1
Critical	1	0	4	3	-1	-2	-2	-2	-6	-3	1	1

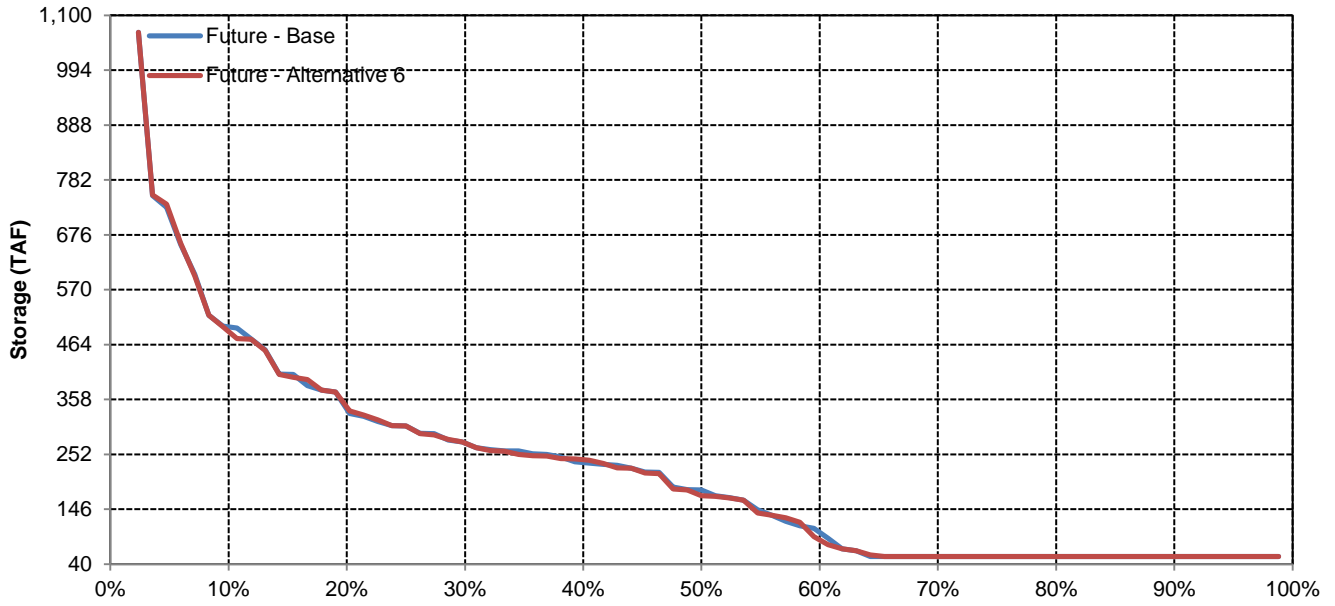


# SWP San Luis Reservoir

## October

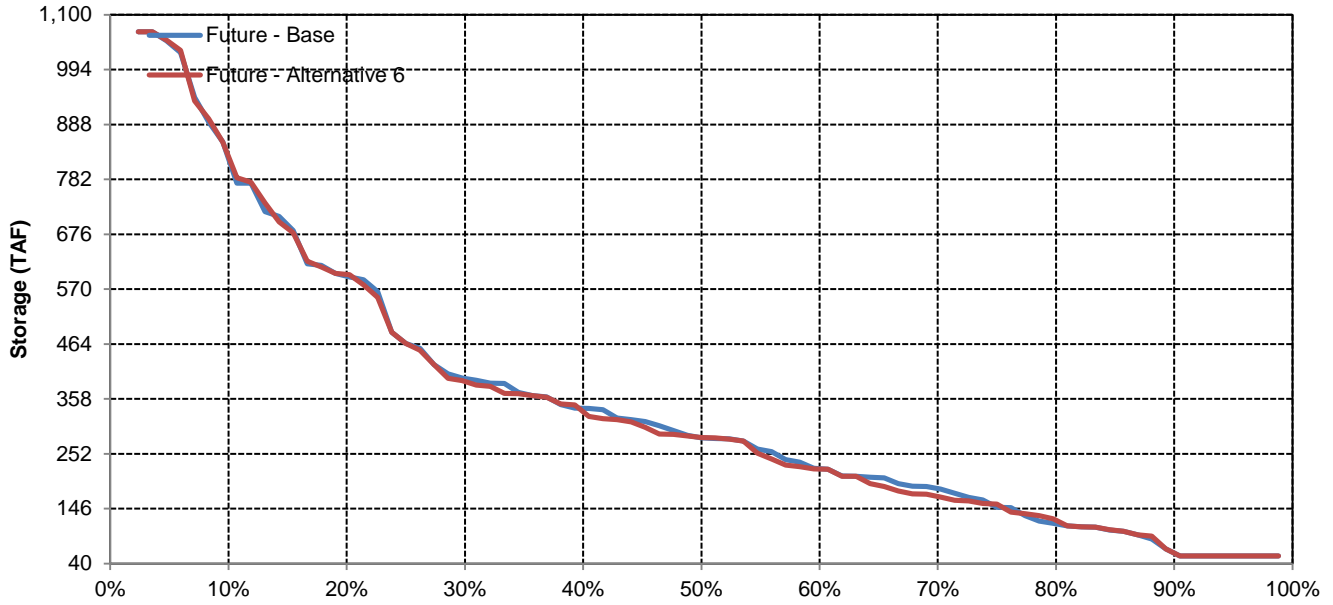


## November

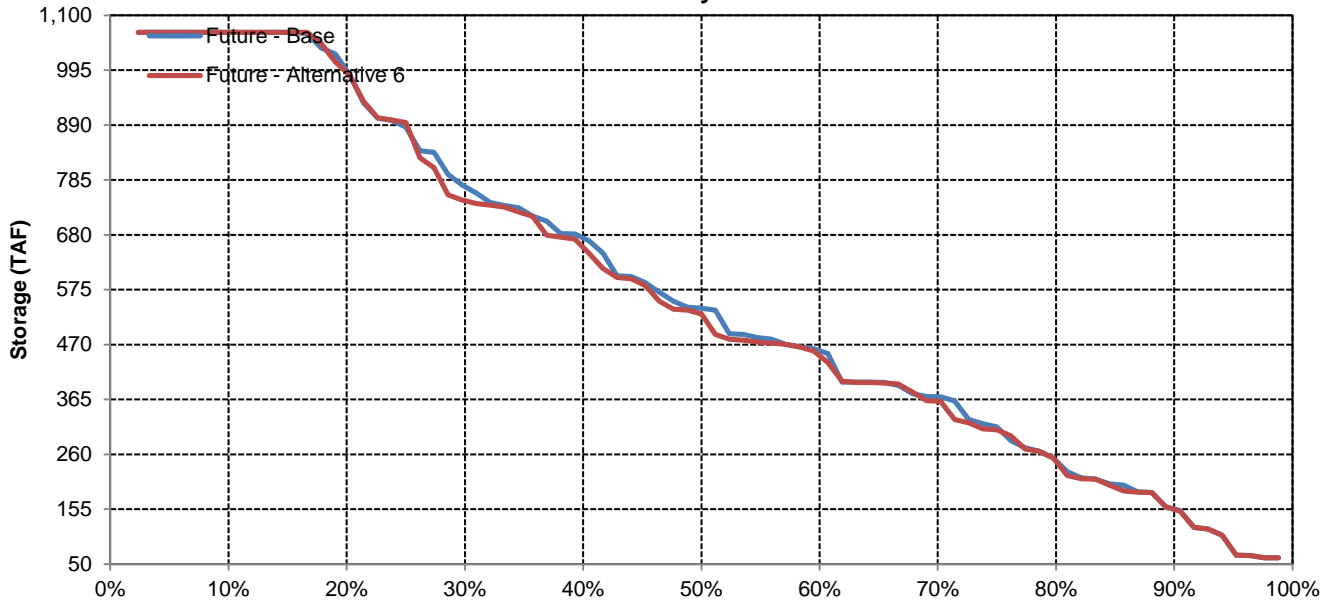


# SWP San Luis Reservoir

## December

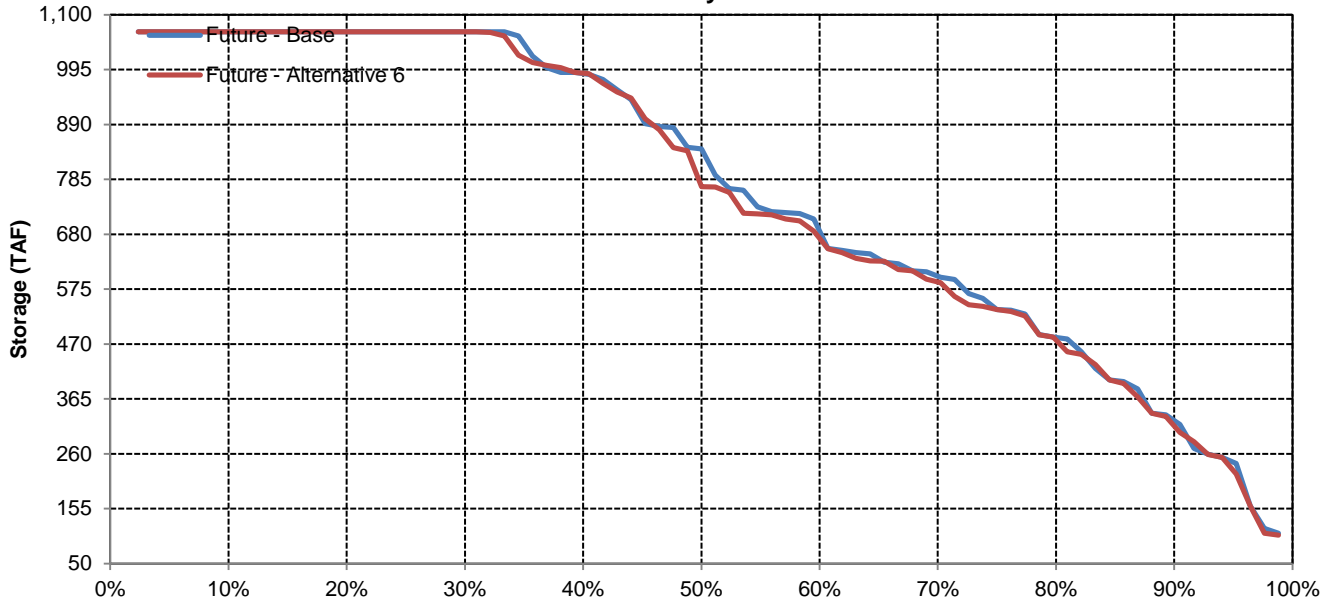


## January

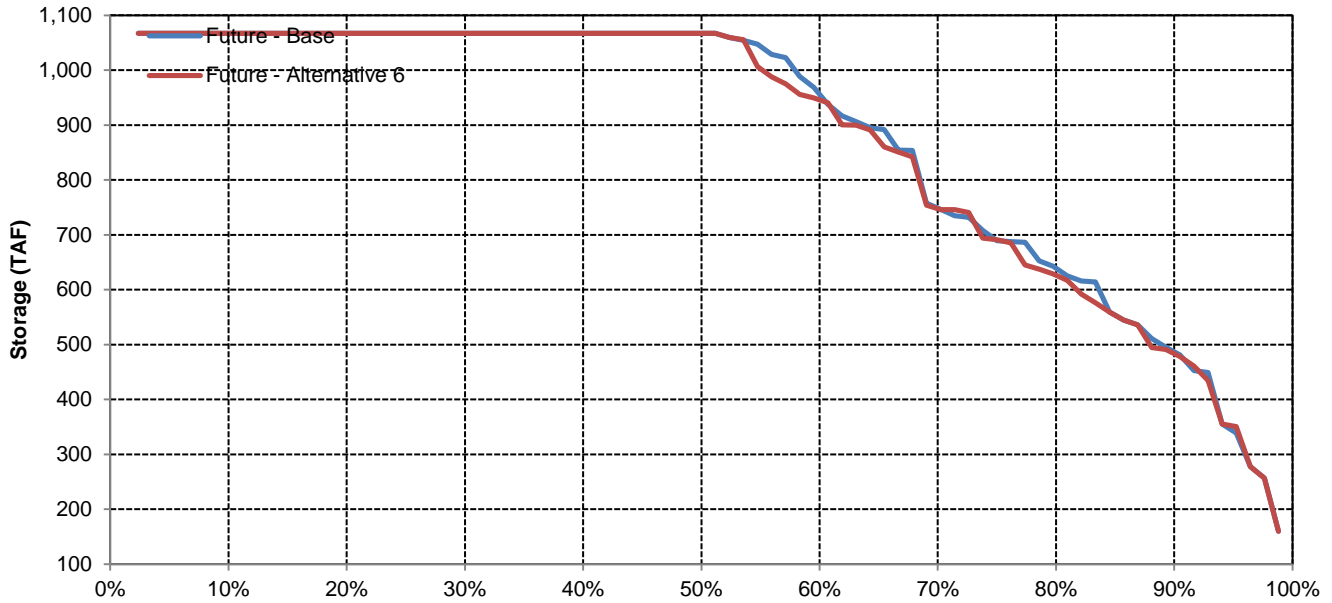


# SWP San Luis Reservoir

## February

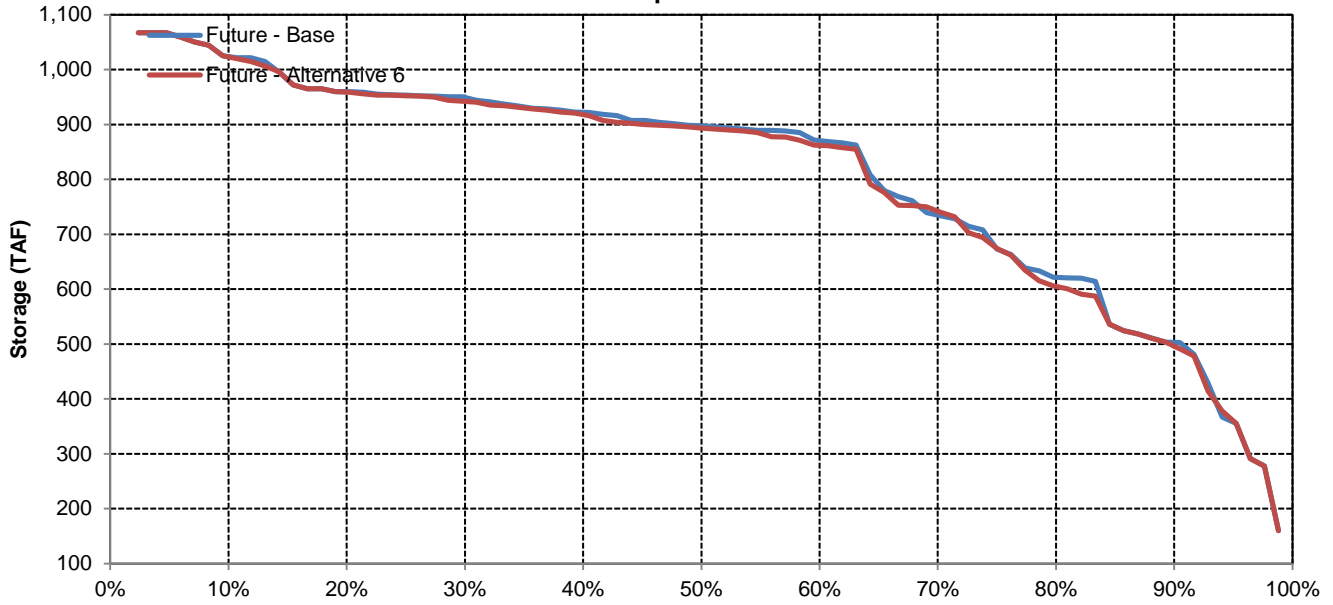


## March

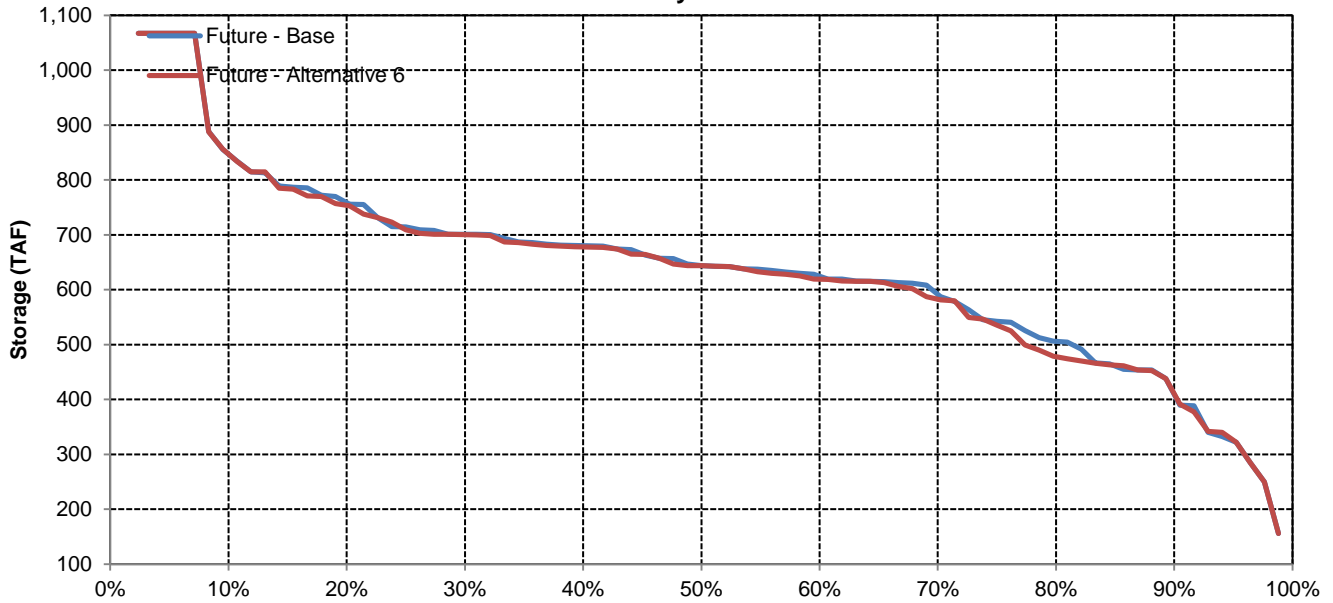


# SWP San Luis Reservoir

## April

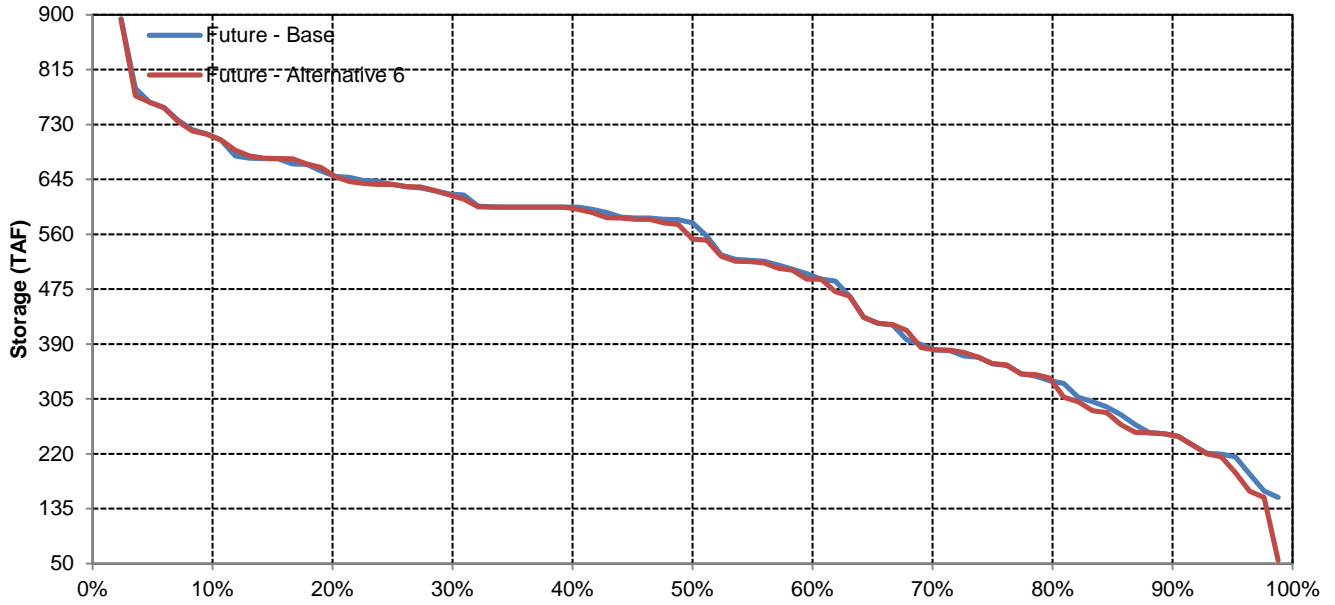


## May

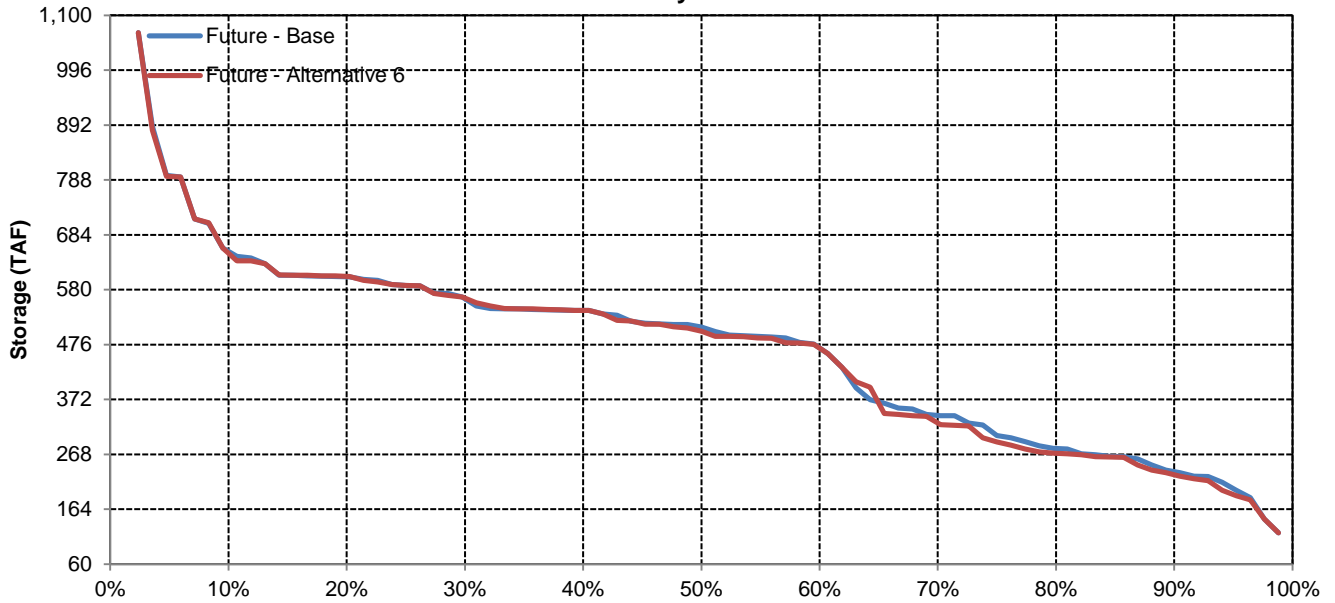


# SWP San Luis Reservoir

## June

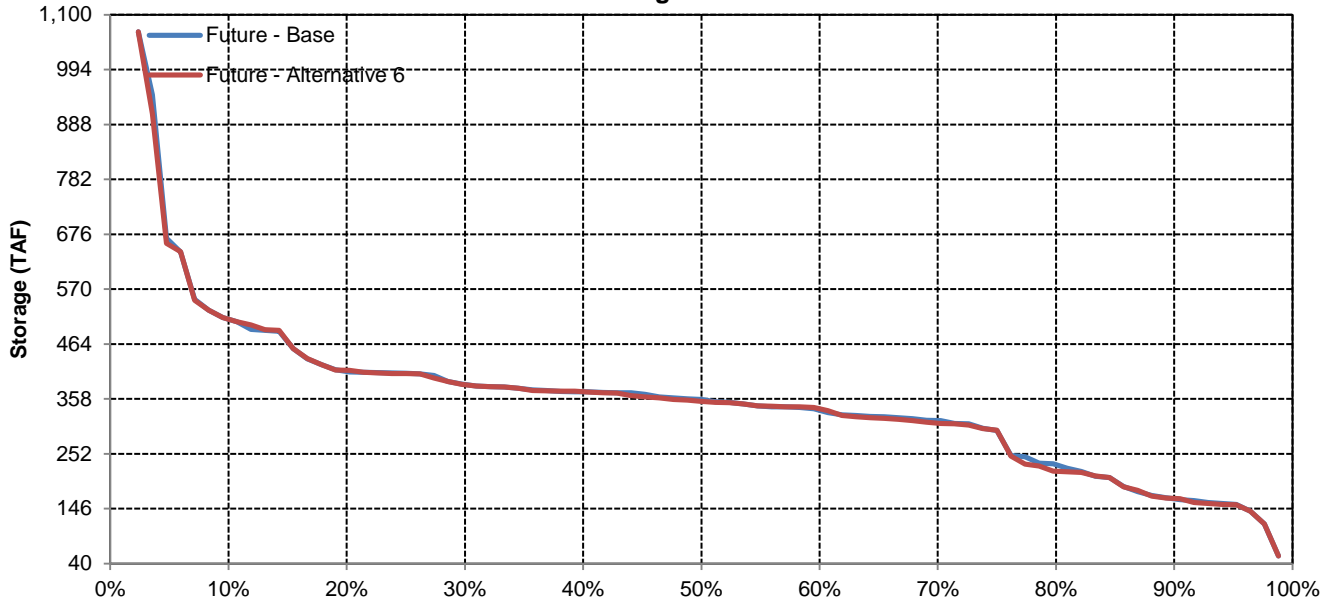


## July

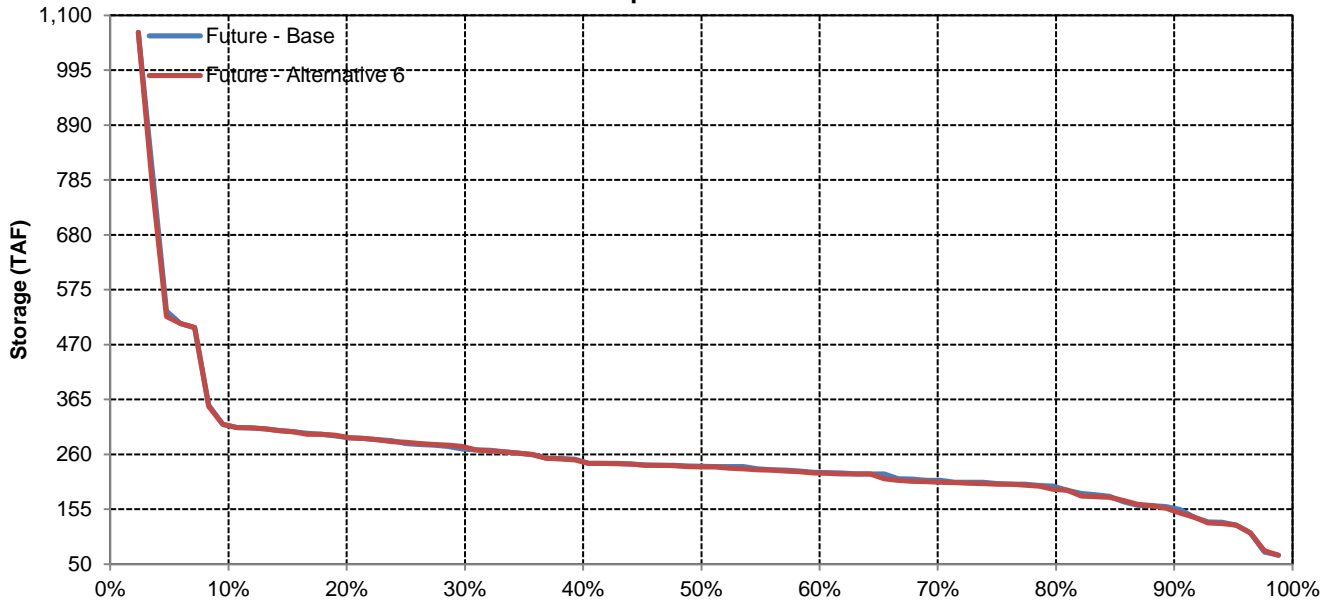


SWP San Luis Reservoir

August



September



Long-Term and Water Year-Type Average of Delta Outflow Under Future - Base and Future - Alternative 6

Analysis Period	Average Flow (cfs)												Total (TAF)
	October	November	December	January	February	March	April	May	June	July	August	September	
<b>Long-Term</b>													
<b>Full Simulation Period</b>													
Future - Base	8,408	10,099	24,888	54,896	70,049	52,500	29,061	14,179	8,605	7,157	4,274	10,294	17,604
Future - Alternative 6	8,427	10,108	24,915	55,003	70,106	52,498	29,061	14,168	8,590	7,155	4,279	10,293	17,616
Difference	18	9	26	106	57	-2	0	-11	-15	-2	5	0	11
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Water Year-Types</b>													
<b>Wet</b>													
Future - Base	9,541	15,088	53,646	115,984	131,904	102,001	53,280	21,075	11,285	9,709	4,000	21,635	32,826
Future - Alternative 6	9,573	15,087	53,784	116,099	131,901	101,964	53,290	21,051	11,295	9,706	4,000	21,635	32,840
Difference	33	-2	137	116	-3	-36	10	-24	9	-3	0	0	15
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Above Normal</b>													
Future - Base	9,036	8,854	16,293	59,685	102,404	57,212	27,004	15,829	8,580	8,899	4,000	13,224	19,718
Future - Alternative 6	9,153	8,854	16,343	59,846	102,482	57,120	27,007	15,828	8,581	8,898	4,000	13,224	19,737
Difference	117	1	50	161	78	-91	3	0	2	-1	0	0	19
Percent Difference	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Below Normal</b>													
Future - Base	8,461	9,070	13,804	28,415	31,537	29,246	21,994	12,973	7,605	6,655	4,139	3,000	10,623
Future - Alternative 6	8,451	9,100	13,864	28,547	31,606	29,283	21,994	12,957	7,532	6,649	4,157	3,000	10,637
Difference	-10	30	59	133	69	38	0	-16	-73	-6	18	0	15
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%
<b>Dry</b>													
Future - Base	7,611	7,891	10,135	15,901	29,451	24,322	15,139	9,861	7,158	5,000	4,785	3,000	8,395
Future - Alternative 6	7,616	7,888	10,165	15,965	29,545	24,387	15,130	9,857	7,161	5,000	4,786	3,000	8,410
Difference	5	-4	30	64	94	65	-9	-4	3	0	1	0	15
Percent Difference	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>Critical</b>													
Future - Base	6,653	5,227	7,054	11,831	15,756	13,084	9,330	6,228	6,318	4,170	4,415	3,092	5,600
Future - Alternative 6	6,601	5,263	6,776	11,910	15,848	13,087	9,319	6,228	6,265	4,170	4,428	3,091	5,589
Difference	-52	37	-278	79	92	3	-11	0	-53	0	13	-1	-11
Percent Difference	-1%	1%	-4%	1%	1%	0%	0%	0%	-1%	0%	0%	0%	0%

Delta Outflow

Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,938	15,863	79,058	151,208	180,010	107,880	70,644	27,159	11,545	10,516	4,885	21,875
20%	10,625	14,764	33,428	92,252	125,923	89,027	38,581	18,353	10,462	9,612	4,709	21,563
30%	10,313	11,693	17,489	56,706	77,981	62,254	28,814	14,204	8,749	9,048	4,349	20,938
40%	7,625	11,004	14,366	33,893	58,622	40,886	20,594	12,808	8,409	8,000	4,217	13,062
50%	7,160	8,104	11,802	26,142	43,165	27,471	17,579	11,253	7,899	6,666	4,000	3,000
60%	6,994	4,500	8,257	19,228	24,986	20,728	15,558	10,174	7,418	6,500	4,000	3,000
70%	6,613	4,500	5,323	14,908	20,687	17,661	13,640	9,584	7,100	5,000	4,000	3,000
80%	6,259	4,500	4,500	13,125	16,723	14,481	11,153	8,460	7,100	5,000	4,000	3,000
90%	5,678	3,500	4,500	8,401	12,239	11,400	10,016	7,100	6,799	4,065	4,000	3,000
<b>Long Term</b>												
Full Simulation Period	8,408	10,099	24,888	54,896	70,049	52,500	29,061	14,179	8,605	7,157	4,274	10,294
<b>Water Year Types</b>												
Wet	9,541	15,088	53,646	115,984	131,904	102,001	53,280	21,075	11,285	9,709	4,000	21,635
Above Normal	9,036	8,854	16,293	59,685	102,404	57,212	27,004	15,829	8,580	8,899	4,000	13,224
Below Normal	8,461	9,070	13,804	28,415	31,537	29,246	21,994	12,973	7,605	6,655	4,139	3,000
Dry	7,611	7,891	10,135	15,901	29,451	24,322	15,139	9,861	7,158	5,000	4,785	3,000
Critical	6,653	5,227	7,054	11,831	15,756	13,084	9,330	6,228	6,318	4,170	4,415	3,092

Future - Alternative 6

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	10,938	15,802	79,160	151,360	179,871	107,333	70,645	27,156	11,545	10,516	4,887	21,875
20%	10,625	14,764	33,719	92,469	125,927	88,765	38,581	18,350	10,470	9,598	4,708	21,563
30%	10,313	11,693	17,518	57,438	77,980	61,511	28,814	14,204	8,750	9,047	4,435	20,938
40%	7,647	11,004	14,413	33,939	58,847	40,819	20,594	12,808	8,408	8,000	4,237	13,062
50%	7,192	8,101	11,827	26,193	43,298	27,471	17,697	11,253	7,971	6,664	4,005	3,000
60%	7,013	4,500	8,269	19,324	25,212	20,751	15,558	9,951	7,245	6,500	4,000	3,000
70%	6,737	4,500	5,650	15,024	20,772	17,808	13,640	9,567	7,100	5,000	4,000	3,000
80%	6,259	4,500	4,500	13,127	16,836	14,540	11,111	8,460	7,100	5,000	4,000	3,000
90%	5,701	3,500	4,500	8,407	12,324	11,400	10,027	7,100	6,724	4,065	4,000	3,000
<b>Long Term</b>												
Full Simulation Period	8,427	10,108	24,915	55,003	70,106	52,498	29,061	14,168	8,590	7,155	4,279	10,293
<b>Water Year Types</b>												
Wet	9,573	15,087	53,784	116,099	131,901	101,964	53,290	21,051	11,295	9,706	4,000	21,635
Above Normal	9,153	8,854	16,343	59,846	102,482	57,120	27,007	15,828	8,581	8,898	4,000	13,224
Below Normal	8,451	9,100	13,864	28,547	31,606	29,283	21,994	12,957	7,532	6,649	4,157	3,000
Dry	7,616	7,888	10,165	15,965	29,545	24,387	15,130	9,857	7,161	5,000	4,786	3,000
Critical	6,601	5,263	6,776	11,910	15,848	13,087	9,319	6,228	6,265	4,170	4,428	3,091

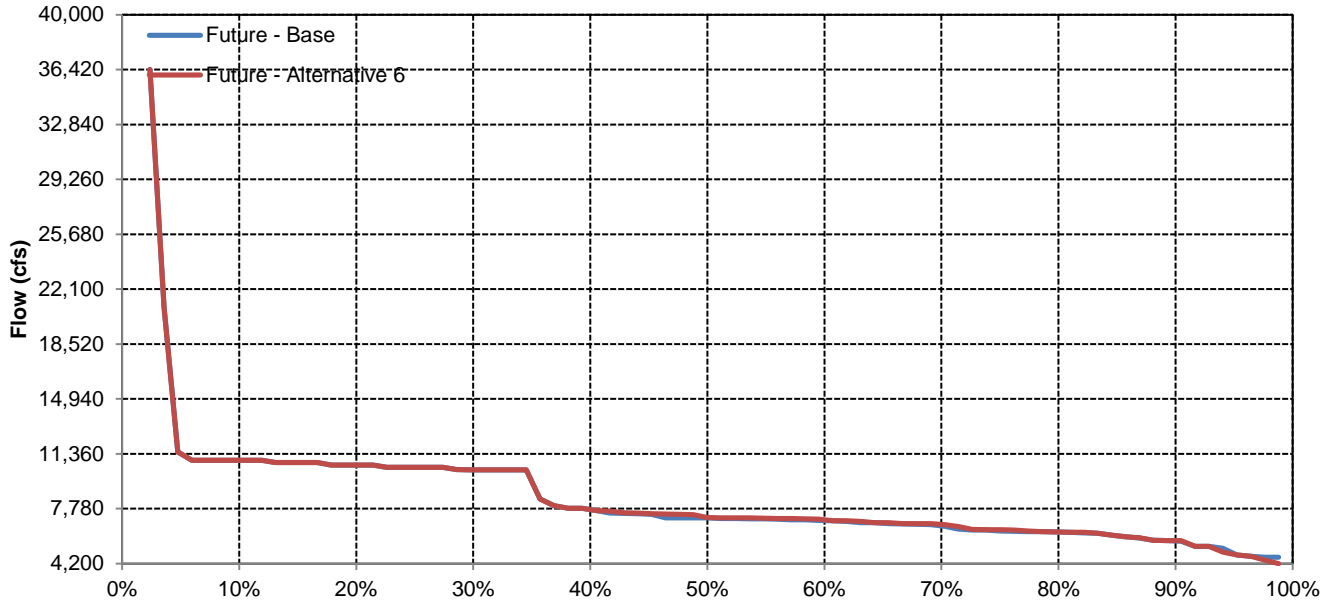
Future - Alternative 6 Minus Future - Base

Statistic	Average Monthly Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Probability of Exceedance</b>												
10%	0	-60	102	153	-139	-547	1	-4	0	0	2	0
20%	0	0	291	217	4	-262	0	-3	8	-14	0	0
30%	0	0	30	732	0	-742	0	0	1	0	86	0
40%	22	0	47	45	225	-67	0	0	0	0	21	0
50%	32	-2	24	51	133	1	118	0	72	-2	5	0
60%	18	0	12	96	226	23	0	-223	-174	0	0	0
70%	124	0	327	115	86	146	0	-17	0	0	0	0
80%	0	0	0	2	113	59	-42	0	0	0	0	0
90%	23	0	0	7	85	0	11	0	-76	0	0	0
<b>Long Term</b>												
Full Simulation Period	18	9	26	106	57	-2	0	-11	-15	-2	5	0
<b>Water Year Types</b>												
Wet	33	-2	137	116	-3	-36	10	-24	9	-3	0	0
Above Normal	117	1	50	161	78	-91	3	0	2	-1	0	0
Below Normal	-10	30	59	133	69	38	0	-16	-73	-6	18	0
Dry	5	-4	30	64	94	65	-9	-4	3	0	1	0
Critical	-52	37	-278	79	92	3	-11	0	-53	0	13	-1

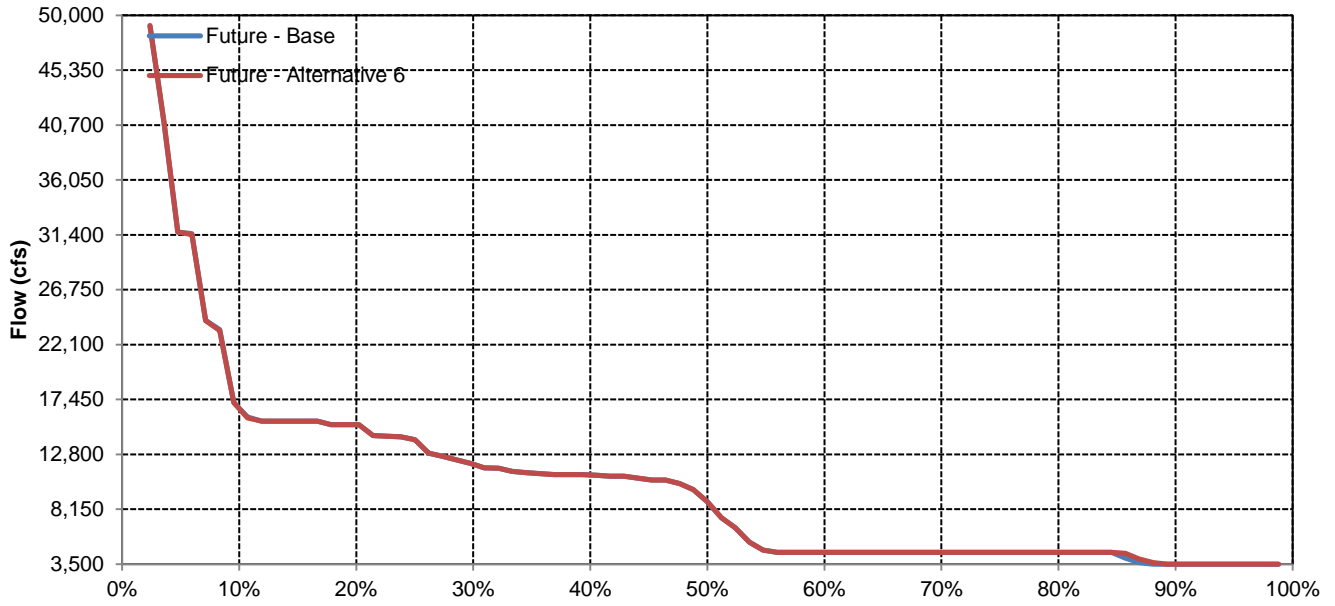


# Delta Outflow

## October

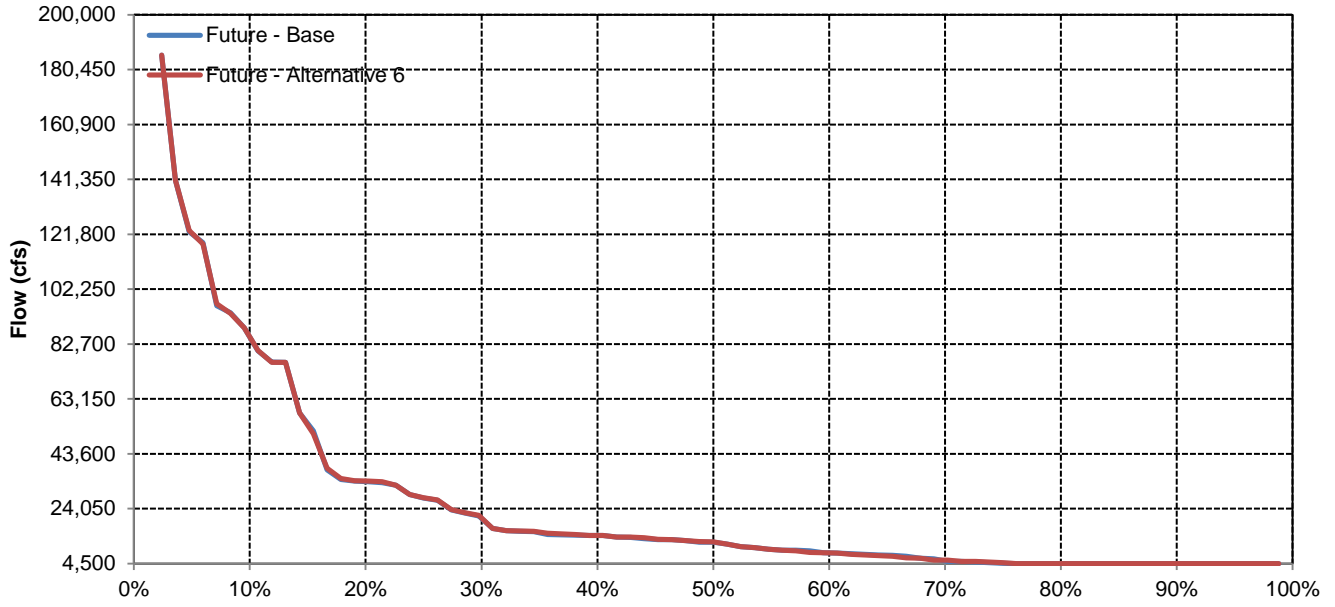


## November

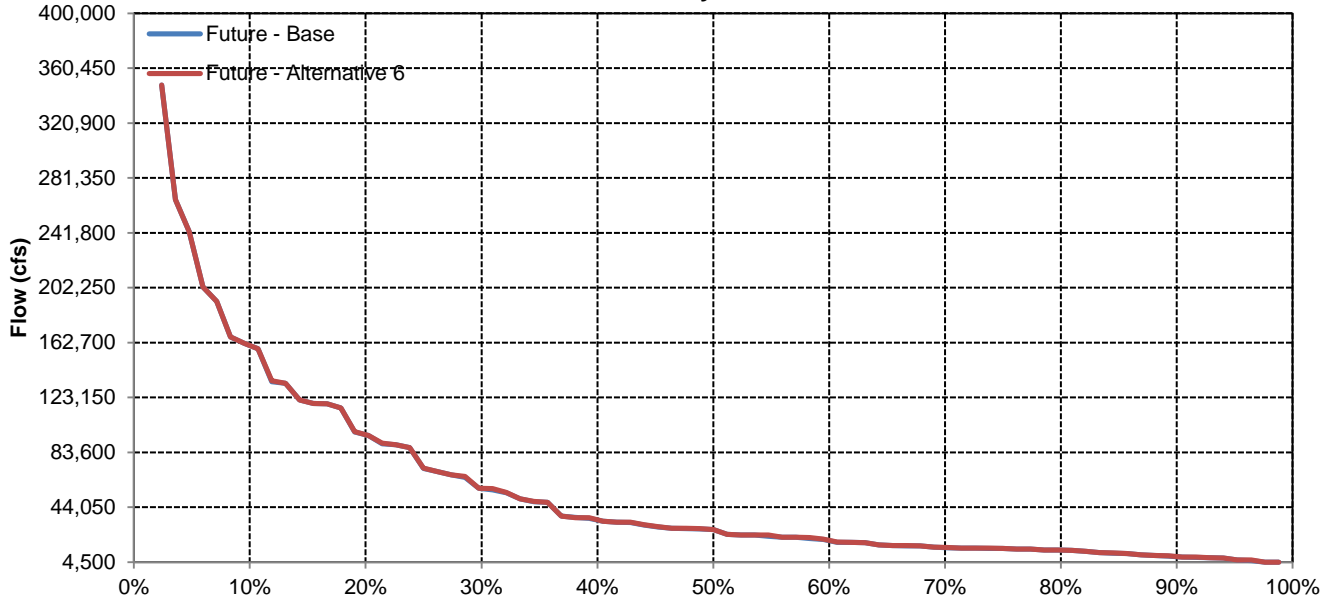


# Delta Outflow

## December

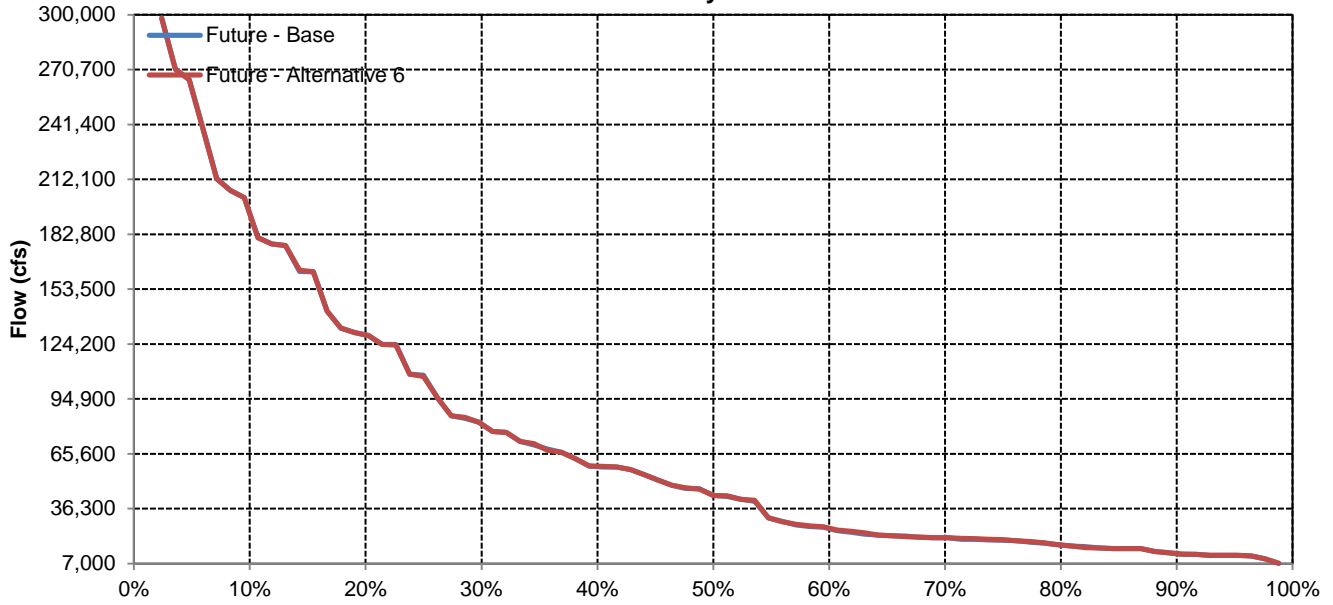


## January

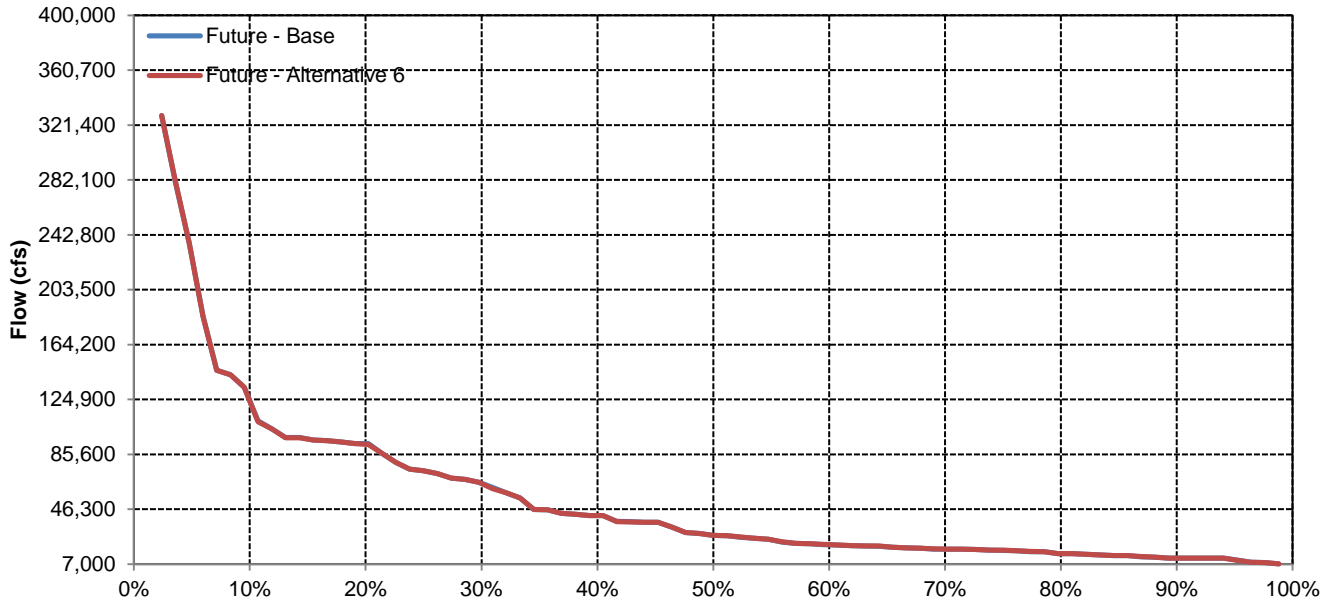


# Delta Outflow

## February

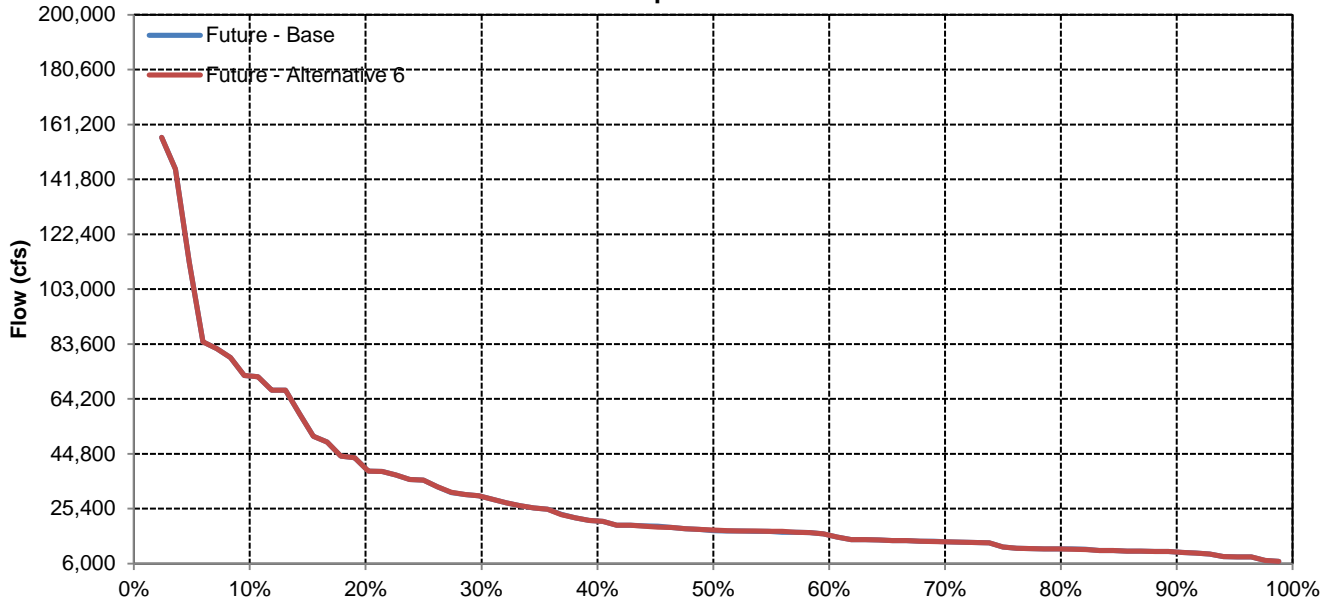


## March

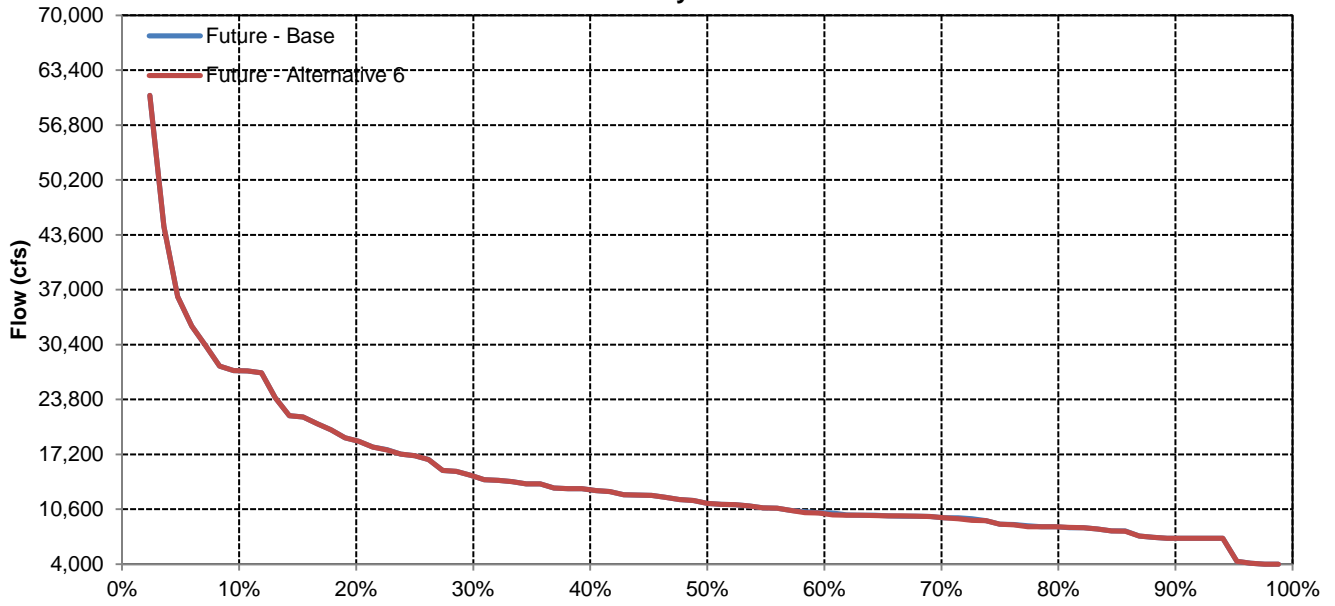


# Delta Outflow

## April

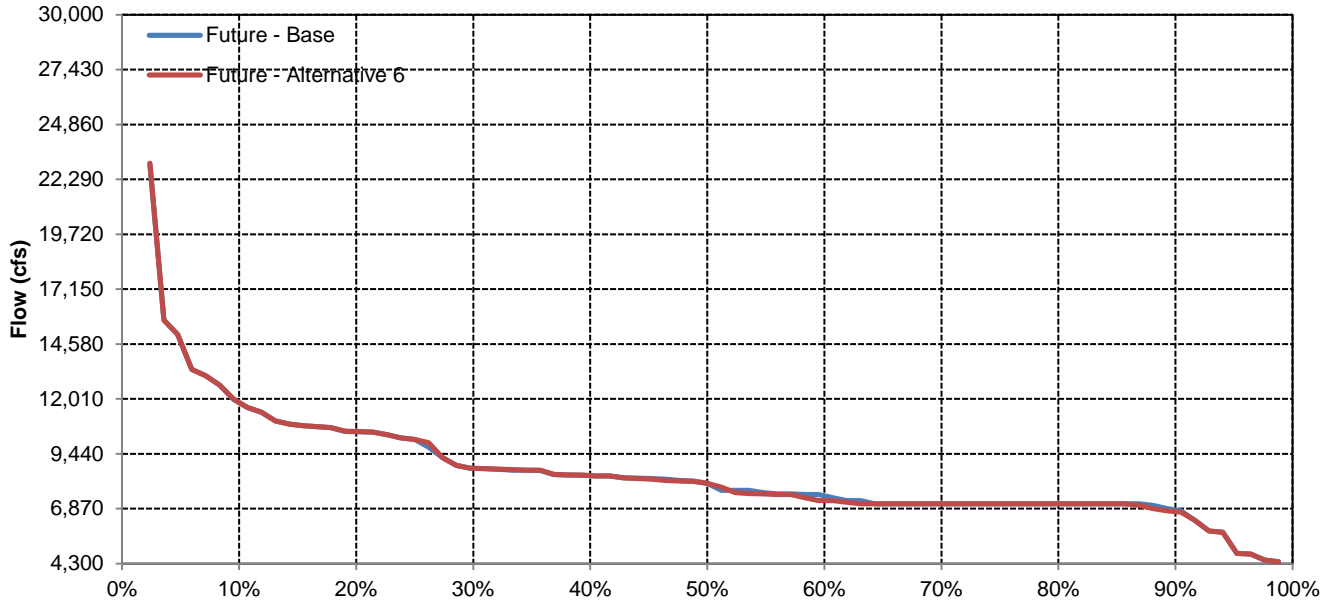


## May

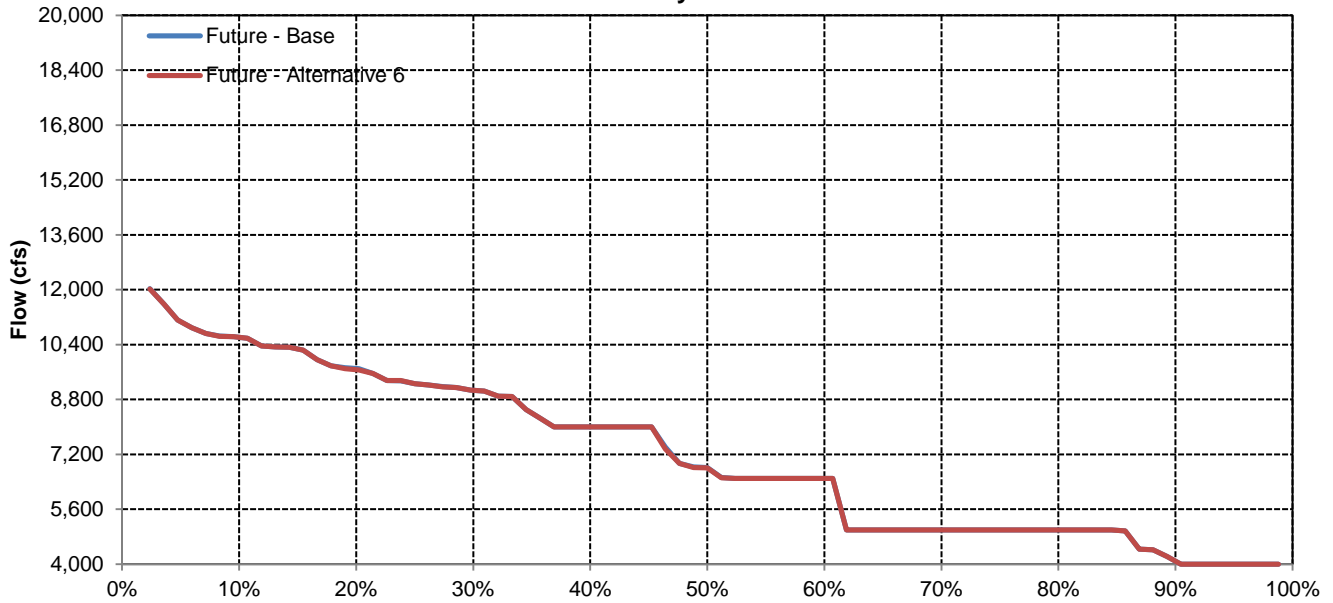


# Delta Outflow

## June

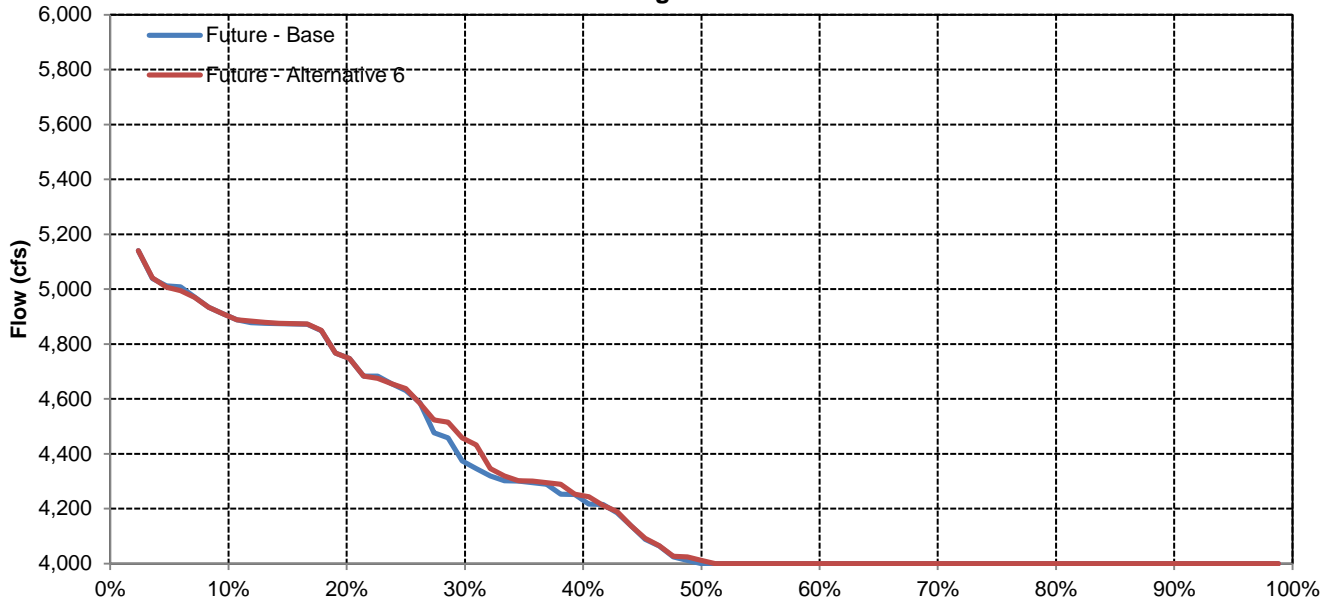


## July



# Delta Outflow

## August



## September

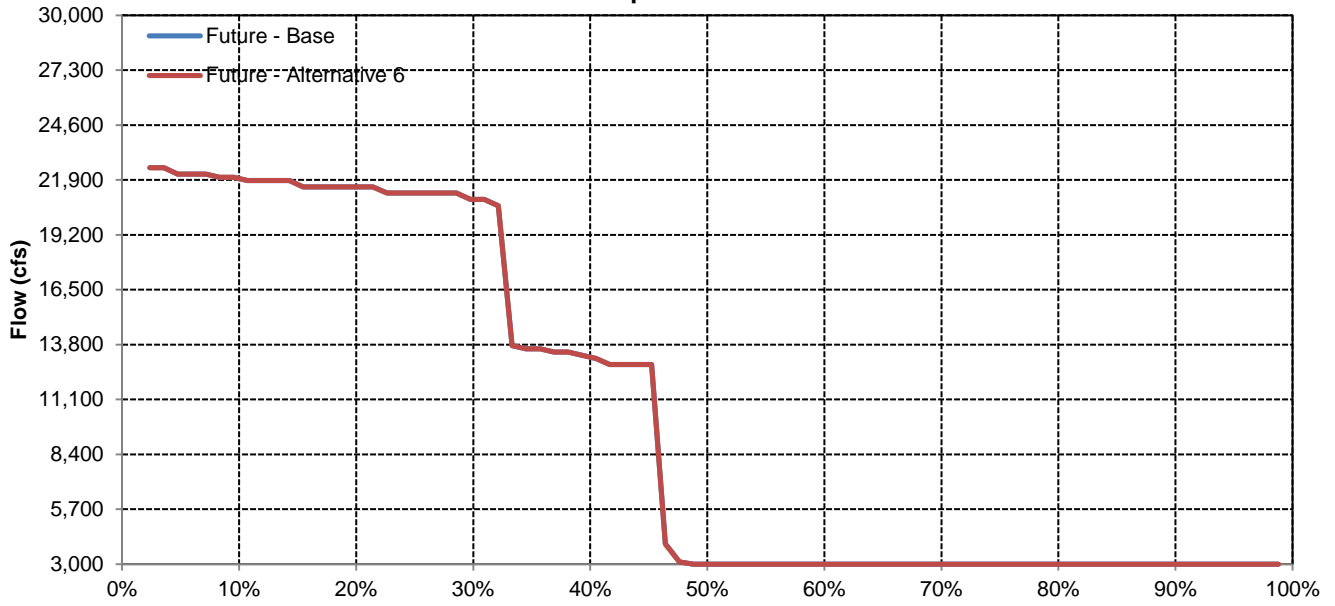


Table 185 No Action Alternative-Alternative 6 (Future)

Winter-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adult Immigration	November through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
			Freeport		10	Lower 40%		0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport	64		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
				68		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Juvenile Rearing and Downstream Movement*	July through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0				0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
			Freeport	61		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		
				65		All Years	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0		

Table 186 No Action Alternative-Alternative 6 (Future)

Spring-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative													
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Adult Immigration	March through September	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%								0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	64			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				68			All Years							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juvenile Rearing (and Downstream Movement)	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				65			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Smolt Emigration	October through May	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Freeport					10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0						
Mean Monthly Water Temperature (°F)	Feather River Confluence			63			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	Freeport			63			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						



Table 187 No Action Alternative-Alternative 6 (Future)

Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration and Staging	July through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0							0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	-3.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0								0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0								0.0	0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0								0.0	0.0	0.0
				68		All Years	0.0	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	December through July	Mean Monthly Flow (cfs)	Verona		10	Lower 40%			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
			Freeport		10	Lower 40%			-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
				65		All Years			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 188 No Action Alternative-Alternative 6 (Future)

Late Fall-run Chinook Salmon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative												
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Adult Immigration and Staging	October through April	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0						
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Juvenile Rearing and Downstream Movement	April through December	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0		
			Freeport		10	Lower 40%	0.0	0.0	-3.0				0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				65		All Years	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 189 No Action Alternative-Alternative 6 (Future)

Steelhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration	August through March	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0					0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
			Freeport	64		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	65		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
				68		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Smolt Emigration	January through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0		
Freeport					10	Lower 40%				0.0	0.0	0.0	0.0	0.0	0.0				
Mean Monthly Water Temperature (°F)	Feather River Confluence			52		All Years				0.0	0.0	0.0	0.0	0.0	0.0				
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0				
	Freeport			52		All Years				0.0	0.0	0.0	0.0	0.0	0.0				
				55		All Years				0.0	0.0	0.0	0.0	0.0	0.0				

Table 190 No Action Alternative-Alternative 6 (Future)

Green Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Holding	February through July	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years					0.0	0.0	0.0	0.0	0.0	0.0		
Adult Post-Spawning Holding and Emigration	July through November	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0								0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	61		All Years	0.0	0.0								0.0	0.0	0.0
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 191 No Action Alternative-Alternative 6 (Future)

White Sturgeon in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration and Holding	November through May	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%		0.0	-3.0	0.0	0.0	0.0	0.0	0.0					
		Mean Monthly Water Temperature (°F)	Freeport	77		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Spawning and Egg Incubation	February through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%					0.0	0.0	0.0	0.0					
			Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61		All Years					0.0	0.0	0.0	0.0	0.0				
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport	66		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 192 No Action Alternative-Alternative 6 (Future)

River Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration	September through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 193 No Action Alternative-Alternative 6 (Future)

Pacific Lamprey in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration	January through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%					0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Freeport	42-60		All Years					0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Ammocoete Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Freeport	72		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

Table 194 No Action Alternative-Alternative 6 (Future)

Hardhead in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adults and Other Lifestages	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	0.0	0.0
			Freeport	61-77		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	1.2	0.0
Adult Spawning	April through June	Mean Monthly Flow (cfs)	Freeport		10	Lower 40%							0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Freeport	59-64		All Years								0.0	0.0	0.0			

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.



Table 195 No Action Alternative-Alternative 6 (Future)

American Shad in the Sacramento River

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0				
			Freeport		10	Lower 40%							0.0	0.0	0.0				
		Mean Monthly Water Temperature (°F)	Feather River Confluence	60-70			All Years							0.1	0.0	0.0			
			Freeport	60-70			All Years							0.0	0.0	0.0			
Juvenile Rearing and Downstream Movement	Year-Round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			Freeport		10	Lower 40%	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean Monthly Water Temperature (°F)	Feather River Confluence	63-77			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	0.0	0.0
			Freeport	63-77			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	1.2	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

**Table 196 No Action Alternative-Alternative 6 (Future)**

**Striped Bass in the Sacramento River**

Lifestage	Evaluation Period	Indicator of Potential Impact	Location		Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative										
			Description	Value	%	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult Immigration and Spawning	April through June	Mean Monthly Flow (cfs)	Verona		10	Lower 40%							0.0	0.0	0.0			
		Mean Monthly Water Temperature (°F)	Feather River Confluence	59-68			All Years							0.0	0.0	0.0		
Juvenile Rearing and Downstream Movement	Year-round	Mean Monthly Flow (cfs)	Verona		10	Lower 40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean Monthly Water Temperature (°F)	Feather River Confluence	61-71			All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0

<sup>1</sup>Water temperature ranges are evaluated by calculating the net change in the probability of water temperatures occurring within the specified range.

**Table 201 No Action Alternative-Alternative 6 (Future)**

**Alternative 6 (Future) vs No Action Alternative  
Sacramento River at Verona, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	82.9	73.2	20.7	31.7	20.7	35.4	96.3	90.2	68.3	95.1	92.7	91.5
X ≥ 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X > 1.0 (Total %)	15.9	0.0	2.4	0.0	0.0	0.0	0.0	0.0	6.1	2.4	3.7	6.1
X ≤ -10.0	0.0	2.4	3.7	13.4	14.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
X < -1.0 (Total %)	1.2	24.4	70.7	65.9	79.3	64.6	2.4	8.5	23.2	2.4	2.4	1.2
Net Change in % Exceedance:	14.6	-24.4	-68.3	-65.9	-79.3	-64.6	-2.4	-8.5	-17.1	0.0	1.2	4.9
Net Change in 10% Exceedance	0.0	-2.4	-3.7	-13.4	-14.6	-1.2	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	84.8	84.8	42.4	57.6	24.2	51.5	100.0	93.9	57.6	87.9	90.9	97.0
X ≥ 10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X > 1.0 (Total %)	12.1	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	6.1	3.0	0.0
X ≤ -10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X < -1.0 (Total %)	3.0	15.2	42.4	36.4	75.8	48.5	0.0	6.1	39.4	6.1	3.0	3.0
Net Change in % Exceedance:	9.1	-15.2	-36.4	-36.4	-75.8	-48.5	0.0	-6.1	-39.4	0.0	0.0	-3.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 202 No Action Alternative-Alternative 6 (Future)**

**Alternative 6 (Future) vs No Action Alternative  
Sacramento River at Freeport, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	89.0	80.5	26.8	34.1	24.4	36.6	98.8	92.7	79.3	96.3	91.5	92.7
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	11.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	3.7	3.7	3.7	2.4
X<=-10.0	0.0	1.2	2.4	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	17.1	69.5	62.2	74.4	58.5	1.2	4.9	14.6	0.0	3.7	3.7
Net Change in % Exceedance:	11.0	-17.1	-67.1	-59.8	-74.4	-58.5	-1.2	-4.9	-11.0	3.7	0.0	-1.2
Net Change in 10% Exceedance	0.0	-1.2	-2.4	-7.3	-7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	93.9	97.0	54.5	60.6	27.3	57.6	100.0	87.9	84.8	97.0	97.0	93.9
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	6.1	0.0	6.1	6.1	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
X<=-10.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	0.0	3.0	36.4	30.3	72.7	36.4	0.0	6.1	15.2	0.0	3.0	6.1
Net Change in % Exceedance:	6.1	-3.0	-30.3	-24.2	-72.7	-36.4	0.0	-6.1	-15.2	3.0	-3.0	-6.1
Net Change in 10% Exceedance	0.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 209 No Action Alternative-Alternative 6 (Future)

Alternative 6 (Future) vs No Action Alternative

Sacramento River at Feather River, Monthly Temperature

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

No Action Alternative													Alternative 6 (Future)													Alternative 6 (Future) - No Action Alternative												
Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	98.8	98.8	98.8	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	98.8	98.8	98.8	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43	98.8	98.8	98.2	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	98.8	98.8	98.2	96.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	98.8	98.8	91.9	87.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	98.8	98.8	92.1	87.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
48	98.8	98.8	40.2	23.2	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	98.8	98.8	40.2	23.2	97.0	98.8	98.8	98.8	98.8	98.8	98.8	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	98.8	98.8	22.0	5.5	90.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	98.8	98.8	20.7	5.5	90.2	98.8	98.8	98.8	98.8	98.8	98.8	49	0.0	0.0	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50	98.8	98.8	8.5	1.2	73.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	98.8	98.8	8.5	1.2	73.2	98.8	98.8	98.8	98.8	98.8	98.8	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
52	98.8	95.1	1.7	1.2	30.1	97.3	98.8	98.8	98.8	98.8	98.8	98.8	52	98.8	95.1	1.7	1.2	30.1	97.3	98.8	98.8	98.8	98.8	98.8	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
53	98.8	87.8	1.2	1.2	12.0	86.0	98.8	98.8	98.8	98.8	98.8	98.8	53	98.8	87.8	1.2	1.2	12.0	86.0	98.8	98.8	98.8	98.8	98.8	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	98.8	67.1	1.2	1.2	6.1	74.4	98.8	98.8	98.8	98.8	98.8	98.8	54	98.8	67.1	1.2	1.2	6.1	74.4	98.8	98.8	98.8	98.8	98.8	54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
55	98.8	42.7	1.2	1.2	3.1	61.0	98.7	98.8	98.8	98.8	98.8	98.8	55	98.8	42.7	1.2	1.2	3.1	61.0	98.7	98.8	98.8	98.8	98.8	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
56	98.8	26.8	1.2	1.2	1.2	39.0	97.6	98.8	98.8	98.8	98.8	98.8	56	98.8	26.8	1.2	1.2	1.2	39.0	97.6	98.8	98.8	98.8	98.8	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
57	98.8	14.0	1.2	1.2	1.2	23.2	96.7	98.8	98.8	98.8	98.8	98.8	57	98.8	14.0	1.2	1.2	1.2	23.2	96.7	98.8	98.8	98.8	98.8	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
58	98.8	5.5	1.2	1.2	1.2	12.8	91.2	98.8	98.8	98.8	98.8	98.8	58	98.8	5.5	1.2	1.2	1.2	12.8	91.2	98.8	98.8	98.8	98.8	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
59	98.8	1.2	1.2	1.2	1.2	7.3	85.7	98.8	98.8	98.8	98.8	98.8	59	98.8	1.2	1.2	1.2	1.2	7.3	85.7	98.8	98.8	98.8	98.8	59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60	98.8	1.2	1.2	1.2	1.2	2.7	81.1	98.8	98.8	98.8	98.8	98.8	60	98.8	1.2	1.2	1.2	1.2	2.7	81.2	98.8	98.8	98.8	98.8	60	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
61	92.1	1.2	1.2	1.2	1.2	2.0	74.4	98.8	98.8	98.8	98.8	98.8	61	92.1	1.2	1.2	1.2	1.2	2.0	74.4	98.8	98.8	98.8	98.8	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
62	74.4	1.2	1.2	1.2	1.2	1.4	61.0	98.8	98.8	98.8	98.8	98.8	62	73.2	1.2	1.2	1.2	1.2	1.4	61.0	98.8	98.8	98.8	98.8	62	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
63	52.8	1.2	1.2	1.2	1.2	1.2	50.0	98.6	98.8	98.8	98.8	98.8	63	52.8	1.2	1.2	1.2	1.2	1.2	50.0	98.6	98.8	98.8	98.8	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
64	41.5	1.2	1.2	1.2	1.2	1.2	34.5	98.0	98.8	98.8	98.8	98.8	64	41.5	1.2	1.2	1.2	1.2	1.2	34.5	98.0	98.8	98.8	98.8	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
65	23.2	1.2	1.2	1.2	1.2	1.2	23.2	96.3	98.8	98.8	98.8	98.8	65	23.2	1.2	1.2	1.2	1.2	1.2	23.2	96.3	98.8	98.8	98.8	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
66	15.2	1.2	1.2	1.2	1.2	1.2	10.4	90.7	98.8	98.8	98.8	97.4	66	15.2	1.2	1.2	1.2	1.2	1.2	10.4	90.7	98.8	98.8	98.8	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
68	4.1	1.2	1.2	1.2	1.2	1.2	1.2	65.2	96.5	98.8	98.8	89.6	68	4.1	1.2	1.2	1.2	1.2	1.2	65.2	96.5	98.8	98.8	89.6	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
69	2.1	1.2	1.2	1.2	1.2	1.2	1.2	45.1	95.3	98.8	98.8	78.9	69	2.1	1.2	1.2	1.2	1.2	1.2	45.1	95.3	98.8	98.8	78.5	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	
70	1.4	1.2	1.2	1.2	1.2	1.2	1.2	28.7	86.6	98.8	98.8	70.7	70	1.4	1.2	1.2	1.2	1.2	1.2	28.7	86.6	98.8	98.8	70.7	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	15.9	72.0	98.8	98.8	57.7	71	1.2	1.2	1.2	1.2	1.2	1.2	15.9	70.7	98.8	98.8	57.3	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3	0.0	0.0	-0.4		
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	10.4	57.3	97.6	95.9	46.3	72	1.2	1.2	1.2	1.2	1.2	1.2	10.4	57.3	97.0	95.1	45.1	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	-0.8	-1.2		
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.3	23.2	74.4	84.1	18.3	74	1.2	1.2	1.2	1.2	1.2	1.2	3.3	22.0	74.4	82.9	18.3	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.2	0.0	-1.2	0.0		
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.6	11.0	54.9	69.5	9.8	75	1.2	1.2	1.2	1.2	1.2	1.2	2.6	11.0	54.9	69.5	9.1	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7		
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	18.3	30.5	3.0	77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	18.9	30.5	3.0	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0		
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
45-75	97.6	97.6	90.7	86.6	97.6	97.6	97.6	96.2	87.8	43.9	29.3	89.0	45-75	97.6	97.6	90.9	86.6	97.6	97.6	97.6	96.2	87.8	43.9	29.3	89.7	45-75	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
50-64	57.3	97.6	7.3	0.0	72.0	97.6	64.3	0.8	0.0	0.0	0.0	0.0	50-64	57.3	97.6	7.3	0.0	72.0	97.6	64.3	0.8	0.0	0.0	0.0	0.0	50-64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-56	0.0	15.9	0.0																																			

Table 210 No Action Alternative-Alternative 6 (Future)

Alternative 6 (Future) vs No Action Alternative

Sacramento River at Freeport, Monthly Temperature

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

No Action Alternative													Alternative 6 (Future)													Alternative 6 (Future) - No Action Alternative														
Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
48	98.8	98.8	43.9	26.2	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	98.8	98.8	43.9	26.4	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
49	98.8	98.8	26.2	8.5	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	98.8	98.8	25.6	8.5	93.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	0.0	0.0	-0.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
53	98.8	90.2	1.2	1.2	15.6	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	98.8	90.7	1.2	1.2	15.9	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	98.8	70.7	1.2	1.2	7.0	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	98.8	70.7	1.2	1.2	6.8	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
59	98.8	2.4	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	98.8	2.3	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
62	89.6	1.2	1.2	1.2	1.2	1.9	62.8	98.8	98.8	98.8	98.8	98.8	62	89.6	1.2	1.2	1.2	1.2	1.9	63.4	98.8	98.8	98.8	98.8	98.8	62	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
68	4.7	1.2	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	95.3	68	4.7	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	95.3	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
69	2.7	1.2	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	89.8	69	2.7	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	89.8	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70	1.6	1.2	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	78.0	70	1.6	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	78.0	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	70.1	71	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	70.1	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	53.7	72	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	53.7	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	39.6	91.5	88.7	22.0	74	1.2	1.2	1.2	1.2	1.2	1.2	3.6	40.9	91.5	89.0	22.0	74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.0		
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.1	78.7	81.7	9.8	75	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.1	78.7	82.3	9.8	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0		
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	39.0	43.9	2.1	77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	39.0	42.7	2.1	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	-1.2	0.0	0.0		
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45-75	97.6	97.6	89.0	84.8	97.6	97.6	97.6	95.7	78.7	20.1	17.1	89.0	45-75	97.6	97.6	89.0	84.8																							

Table 227 No Action Alternative -Alternative 6 (Future)

Delta Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
				Description	Value		%	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Adult	December through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years			0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years			64.6	64.6	65.9	76.8	0.0	0.0				
	September through November	Mean Monthly X <sub>2</sub> (RKm)	X <sub>2</sub> between 74 km and 81 km	74-81		Wet and Above Normal Water Years	0.0	0.0										0.0
	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							
Egg and Embryo	February through May	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years					0.0	0.0	0.0	0.0				
Larval	March through June	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years						0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years						0.0	-3.3	-3.3	3.3			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years						0.0	0.0	0.0	0.0			
Juvenile	May through July	Mean Monthly Water Temperature (°F)	Sacramento River at Freeport	59-68		All Years							0.0	0.0	0.0			
		Mean Monthly X <sub>2</sub> (RKm)	Changes in X <sub>2</sub> between RKm 65 and 80	0.5 RKm		All Years								0.0	1.2	1.2		

Table 228 No Action Alternative -Alternative 6 (Future)

Longfin Smelt in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Adult	December through March	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0	0.0						
Larvae and Juvenile	April and May	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-1500 cfs		Dry and Critical Water Years							-3.3	-3.3				
				< 0 cfs		Dry and Critical Water Years						0.0	0.0					
	January through June	Mean Monthly X <sub>2</sub> (RKm)	X <sub>2</sub>	< 75 RKm		All Years				0.0	0.0	0.0	1.2	0.0	-1.2			
				< 75 RKm		Dry and Critical Water Years			0.0	0.0	0.0	0.0	0.0	0.0				



Table 229 No Action Alternative -Alternative 6 (Future)

Winter-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through May	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	-6.1	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		69.5	64.6	64.6	65.9	76.8	0.0	0.0				
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Table 230 No Action Alternative -Alternative 6 (Future)

Spring-run Chinook Salmon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	-6.1	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Table 231 No Action Alternative -Alternative 6 (Future)

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

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	November through June	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%		0.0	-6.1	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years		69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0			
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Adult (San Joaquin River)	December through February	Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<-5000 cfs		All Years			0.0	0.0	0.0							

Table 232 No Action Alternative -Alternative 6 (Future)

Steelhead in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	October through July	Mean Monthly Flow (cfs)	Rio Vista		10	Lower 40%	0.0	0.0	-6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0	0.0		
		Mean Monthly Delta Outflow (cfs)	Delta		10	All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Mean Monthly OMR Flow (cfs)	Old and Middle Rivers	<2500 cfs		All Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Table 233 No Action Alternative -Alternative 6 (Future)

Green Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	Year-round	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years	0.0	69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0	0.0	0.0	0.0

Table 234 No Action Alternative -Alternative 6 (Future)

White Sturgeon in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Juvenile Rearing and Emigration	April through June	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years							0.0	0.0	0.0			

Table 235 No Action Alternative -Alternative 6 (Future)

**Splittail in the Delta**

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative												
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Spawning and Embryo Incubation	February through May	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years						65.9	76.8	0.0	0.0				
Juvenile Rearing and Emigration	April through July	Mean Monthly Flow (cfs)	Yolo Bypass		10	All Years								0.0	0.0	0.0	0.0		

Table 236 No Action Alternative -Alternative 6 (Future)

American Shad in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
				Description	Value		%	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Egg and Larvae	April through June	Mean Monthly $X_2$ (Rkm)	Changes in $X_2$	1 Rkm		All Years							0.0	0.0	0.0			



Table 237 No Action Alternative -Alternative 6 (Future)

Striped Bass in the Delta

Lifestage	Evaluation Period	Indicator of Potential Impact	Location	Metric		Range	Net Change in Probability of Exceedance under Alternative 6 (Future) relative to No Action Alternative											
			Description	Value	%		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Egg and Larvae	April through June	Mean Monthly $X_2$ (Rkm)	Changes in $X_2$	1 Rkm		All Years							0.0	0.0	0.0			

Table 238 No Action Alternative -Alternative 6 (Future)

Alternative 6 (Future) vs No Action Alternative

Sacramento River at Freeport, Monthly Temperature

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

No Action Alternative													Alternative 6 (Future)													Alternative 6 (Future) - No Action Alternative													
Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Index Value or Range	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	98.8	98.8	98.8	97.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	98.8	98.8	98.8	97.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	98.8	98.8	98.3	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	98.8	98.8	90.2	86.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
48	98.8	98.8	43.9	26.2	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	98.8	98.8	43.9	26.4	97.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	48	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	98.8	98.8	26.2	8.5	92.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	98.8	98.8	25.6	8.5	93.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	49	0.0	0.0	-0.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	98.8	98.8	9.8	1.2	78.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	98.8	97.8	1.5	1.2	29.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
53	98.8	90.2	1.2	1.2	15.6	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	98.8	90.7	1.2	1.2	15.9	90.2	98.8	98.8	98.8	98.8	98.8	98.8	53	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	98.8	70.7	1.2	1.2	7.0	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	98.8	70.7	1.2	1.2	6.8	75.6	98.8	98.8	98.8	98.8	98.8	98.8	54	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	98.8	50.0	1.2	1.2	4.6	63.4	98.8	98.8	98.8	98.8	98.8	98.8	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	98.8	31.7	1.2	1.2	2.0	43.9	97.8	98.8	98.8	98.8	98.8	98.8	56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	98.8	22.0	1.2	1.2	1.2	27.4	96.6	98.8	98.8	98.8	98.8	98.8	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	98.8	6.1	1.2	1.2	1.2	18.9	92.4	98.8	98.8	98.8	98.8	98.8	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	98.8	2.4	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	98.8	2.3	1.2	1.2	1.2	7.3	88.0	98.8	98.8	98.8	98.8	98.8	59	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	98.8	1.2	1.2	1.2	1.2	4.9	81.7	98.8	98.8	98.8	98.8	98.8	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	98.0	1.2	1.2	1.2	1.2	2.4	74.0	98.8	98.8	98.8	98.8	98.8	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	89.6	1.2	1.2	1.2	1.2	1.9	62.8	98.8	98.8	98.8	98.8	98.8	62	89.6	1.2	1.2	1.2	1.2	1.9	63.4	98.8	98.8	98.8	98.8	98.8	62	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	63.4	1.2	1.2	1.2	1.2	1.3	49.4	98.8	98.8	98.8	98.8	98.8	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	52.4	1.2	1.2	1.2	1.2	1.2	32.3	98.4	98.8	98.8	98.8	98.8	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	35.4	1.2	1.2	1.2	1.2	1.2	27.6	97.0	98.8	98.8	98.8	98.8	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	21.3	1.2	1.2	1.2	1.2	1.2	17.1	92.3	98.8	98.8	98.8	98.8	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	4.7	1.2	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	95.3	68	4.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	78.7	98.8	98.8	98.8	98.8	95.3	95.3	98.8	98.8	98.8	95.3	95.3	98.8	98.8	
69	2.7	1.2	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	89.8	69	2.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	54.9	96.6	98.8	98.8	98.8	89.8	89.8	98.8	98.8	98.8	89.8	89.8	98.8	98.8		
70	1.6	1.2	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	78.0	70	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	38.2	95.2	98.8	98.8	98.8	78.0	78.0	98.8	98.8	98.8	78.0	78.0	98.8	98.8		
71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	70.1	71	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	21.3	86.9	98.8	98.8	98.8	70.1	70.1	98.8	98.8	98.8	70.1	70.1	98.8	98.8		
72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	53.7	72	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	13.0	81.7	98.8	98.8	98.8	53.7	53.7	98.8	98.8	98.8	53.7	53.7	98.8	98.8		
74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	39.6	91.5	88.7	22.0	74	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	40.9	91.5	89.0	22.0	22.0	98.8	98.8	98.8	22.0	22.0	98.8	98.8			
75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.1	78.7	81.7	9.8	75	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.1	20.1	78.7	82.3	9.8	9.8	98.8	98.8	98.8	9.8	9.8	98.8	98.8			
77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	39.0	43.9	2.1	77	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	39.0	42.7	2.1	2.1	2.1	98.8	98.8	98.8	2.1	2.1	98.8	98.8			
82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	82	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	86	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	88	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	98	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
45-75	97.6	97.6	89.0	84.8	97.6	97.6	97.6	95.7	78.7	20.1	17.1	89.0	45-75	97.6	97.6	89.0	84.8	97.6	97.6	97.6	95.7	78.7	20.1	16.5	89.0	45-75	0.0	0.0	0.0	0									

**Table 239 No Action Alternative -Alternative 6 (Future)**

**Alternative 6 (Future) vs No Action Alternative  
Sacramento River at Rio Vista, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	75.6	95.1	63.4	56.1	57.3	72.0	87.8	85.4	90.2	89.0	95.1	98.8
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	20.7	2.4	23.2	41.5	39.0	23.2	4.9	2.4	6.1	11.0	1.2	0.0
X<=-10.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	2.4	1.2	11.0	0.0	0.0	2.4	7.3	11.0	3.7	0.0	2.4	1.2
Net Change in % Exceedance:	18.3	1.2	12.2	41.5	39.0	20.7	-2.4	-8.5	2.4	11.0	-1.2	-1.2
Net Change in 10% Exceedance	0.0	0.0	-2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	90.9	97.0	69.7	81.8	54.5	75.8	87.9	93.9	97.0	87.9	90.9	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	3.0	0.0	6.1	15.2	39.4	24.2	12.1	0.0	3.0	12.1	3.0	0.0
X<=-10.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	6.1	3.0	24.2	0.0	0.0	0.0	0.0	6.1	0.0	0.0	3.0	0.0
Net Change in % Exceedance:	-3.0	-3.0	-18.2	15.2	39.4	24.2	12.1	-6.1	3.0	12.1	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	-6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Table 240 No Action Alternative -Alternative 6 (Future)**

**Alternative 6 (Future) vs No Action Alternative  
Yolo Bypass, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	100.0	30.5	29.3	29.3	23.2	14.6	100.0	100.0	100.0	100.0	100.0	100.0
X ≥ 10.0	0.0	69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0	0.0	0.0	0.0
X > 1.0 (Total %)	0.0	69.5	70.7	70.7	76.8	85.4	0.0	0.0	0.0	0.0	0.0	0.0
X ≤ -10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X < -1.0 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	69.5	70.7	70.7	76.8	85.4	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	69.5	64.6	64.6	65.9	76.8	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	100.0	75.8	69.7	48.5	30.3	12.1	100.0	100.0	100.0	100.0	100.0	100.0
X ≥ 10.0	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X > 1 (Total %)	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
X ≤ -10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X < -1 (Total %)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in % Exceedance:	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	24.2	30.3	51.5	69.7	87.9	0.0	0.0	0.0	0.0	0.0	0.0

**Table 241 No Action Alternative -Alternative 6 (Future)**

**Alternative 6 (Future) vs No Action Alternative  
Delta Outflow, Monthly Flow**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-1.0 < X < 1.0	81.7	96.3	75.6	86.6	82.9	93.9	96.3	93.9	85.4	100.0	95.1	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1.0 (Total %)	13.4	3.7	13.4	11.0	13.4	3.7	2.4	0.0	2.4	0.0	3.7	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1.0 (Total %)	3.7	0.0	11.0	0.0	2.4	2.4	1.2	6.1	11.0	0.0	0.0	0.0
Net Change in % Exceedance:	9.8	3.7	2.4	11.0	11.0	1.2	1.2	-6.1	-8.5	0.0	3.7	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Low Flows (Upper 40% of Distribution)</b>												
-1.0 < X < 1.0	75.8	90.9	69.7	90.9	66.7	87.9	100.0	87.9	81.8	100.0	100.0	100.0
X>=10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X>1 (Total %)	15.2	9.1	12.1	6.1	24.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
X<=-10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X<-1 (Total %)	9.1	0.0	18.2	0.0	6.1	3.0	0.0	12.1	15.2	0.0	0.0	0.0
Net Change in % Exceedance:	6.1	9.1	-6.1	6.1	18.2	6.1	0.0	-12.1	-15.2	0.0	0.0	0.0
Net Change in 10% Exceedance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



## **Appendix G7**

### Reclamation Water Temperature Model

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# Appendix G7. Reclamation Temperature Model

This appendix provides a description of the Reclamation Temperature model used to inform the fisheries effects analysis for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage project.

## G7.1 Introduction

The United States Department of the Interior, Bureau of Reclamation (Reclamation) Temperature Model was developed to assist in the planning and operational compliance of temperature objectives. The Reclamation Temperature model simulates monthly mean vertical temperature profiles and release temperatures for Trinity, Whiskeytown, Shasta, Folsom, New Melones, and Tulloch Reservoirs. The objective is to find temperature variability in these the reservoirs and streams, given CVP/SWP operations, and compare between existing and assumed future scenarios.

## G7.2 Key Processes

The following processes are simulated in the temperature model:

- Long-term operational scenarios (i.e., using CalSim-II results)
- Reservoir storage given flood control, hydropower, and reservoir release requirements
- Mean monthly downstream temperatures (using monthly meteorology data)
- Accommodate selective withdrawals (Shasta and Folsom reservoir)

## G7.3 Model and Application

The Reclamation Temperature Model was created and developed exclusively for CVP and SWP systems in the Central Valley. The reservoir temperature model simulates monthly mean vertical temperature profiles and release temperatures. The temperature models consist of two basic model elements: a reservoir component, and a downstream river component.

### G7.3.1 Reclamation Reservoir Model Description

The reservoir component of the Reclamation Temperature model simulates one-dimensional, vertical distribution of reservoir water temperature using monthly input data on initial storage and temperature conditions, inflow, outflow, evaporation, precipitation, radiation, and average

air temperature. The reservoir is divided into horizontal layers of uniform thickness. Each layer is assumed to be isothermal (i.e., the same temperature throughout its volume).

The energy exchange between the reservoir and the atmosphere is assumed to affect only the top layers of water except for energy transferred by diffusion. The energy exchange is assumed to affect water temperature linearly from a maximum effect at the surface to a minimum at the depth of energy penetration. Solar radiation, evaporation, and a combination of conduction and long-wave radiation are expressed as functions of the difference between air and water temperatures. These energy exchanges are computed before the stability and diffusion computations are made. The model used five calibration coefficients in calculating the various energy exchange functions. The Reclamation reservoir temperature model simulates monthly mean vertical temperature profiles and release temperatures for Trinity, Whiskeytown, Shasta, Folsom, New Melones and Tulloch Reservoirs based on hydrologic and climatic input data. The temperature control devices (TCD) at Shasta and Folsom Dams can selectively withdraw water from different reservoir levels to provide downstream temperature control. The TCD's are generally operated to conserve cold water for the summer and fall months when river temperatures become critical for fisheries. The model simulates the TCD operations by making upper level releases in the winter and spring, mid-level releases in the late spring and summer, and low level releases in the late summer and fall. To accomplish this function, the Shasta and Folsom temperature models operate to meet mean monthly tail-water temperature targets that function as a surrogate for downstream temperature compliance.

Temperature changes in the downstream regulating reservoirs: Lewiston, Keswick, Natomas, and Goodwin are computed from equilibrium temperature decay equations in the reservoir models, which are similar to the river model equations. The river temperature models output temperatures at 3 locations on the Trinity River from Lewiston Dam to the North Fork, 12 locations on the Sacramento River from Keswick Dam to Freeport, 9 locations on the American River from Nimbus Dam to the mouth, and 8 locations on the Stanislaus River from Goodwin Dam to the mouth (Table G7-1).

### **G7.3.2 Reclamation River Model Description**

The river component of the Reclamation Temperature model calculates temperature changes in the regulating reservoirs, below the main reservoirs. With regulating reservoir release temperature as the initial river temperature, the river model computes temperatures at several locations along the rivers. The calculation points for river temperatures generally coincide with tributary inflow locations. The model is one-dimensional in the longitudinal direction and assumes fully mixed river cross sections. The effect of tributary inflow on river temperature is computed by mass balance calculation. The river temperature calculations are based on regulating reservoir release temperatures, river flows, and climatic data. Monthly mean historical air temperatures for the 82-year period and other long-term average climatic data for Trinity, Shasta, Whiskeytown, Redding, Red Bluff, Colusa, Marysville, Folsom, Sacramento, New Melones, and Stockton were obtained from National Weather Service records and used to represent climatic conditions for the four river systems.

**Table G7-1. Reclamation Temperature Model Nodes**

River or Creek System	Location
Trinity River	Trinity Dam
	Lewiston Dam
	Douglas City
	North Fork
Clear Creek	Whiskeytown Dam
	Above Igo
	Below Igo
	Mouth
American River	Folsom Dam
	Nimbus Dam
	Sunrise Bridge
	Cordova Park
	Arden Rapids
	Watt Avenue Bridge
	American River Filtration Plant
	H Street
	16 <sup>th</sup> street
	Mouth
	Sacramento River
Keswick Lake above Spring Creek Tunnel	
Spring Creek Tunnel	
Keswick Dam	
Balls Ferry	
Jellys Ferry	
Bend Bridge	
Red Bluff	
Vina	
Butte City	
Wilkins Slough	
Colusa Basin Drain	
Feather River	
American River	
Freeport	

River or Creek System	Location
Stanislaus River	New Melones Dam
	Tulloch Dam
	Goodwin Dam
	Knights Ferry
	Orange Blossom
	Oakdale
	Riverbank
	McHenry Bridge
	Ripon
	Mouth

## G7.4 Model Documentation

The temperature models for the Sacramento and American Rivers are documented in a 1990 Reclamation report (Rowell 1990, as cited in Reclamation 2008). The Trinity River temperature model is documented in a 1979 Reclamation report (Rowell 1979, as cited in Reclamation 2008). The Stanislaus River temperature model is documented in a 1993 Reclamation report (Rowell 1997, as cited in Reclamation 2008). The models are also described in Appendix IX of the 1997 Reclamation Draft CVPIA-PEIS (Reclamation 1997, as cited in Reclamation 2008).

## G7.5 Model Mathematics

The Reclamation Temperature model mechanics are described in Rowell, (1979, 1990, and 1997 as cited in Reclamation 2008).

## G7.6 Quality Assurance and Data Quality Assessment

No formal process documented the quality assurance and data quality of the Reclamation Temperature Model. This model was developed at a time where specific documentation requirements were less stringent. A peer review of the Reclamation Temperature model has not been performed.

## G7.7 Assumptions

The available cold water (in the reservoirs) is utilized efficiently depending on the month in the monthly model and storage levels in any given year in the mean daily model. These targets are developed for facilities that can modify releases for temperature control. The Reclamation Temperature Model Shasta and Folsom reservoir temperature targets are listed in Table G7-2.

**Table G7-2. Reclamation Temperature Model Tailwater Targets (° F)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Shasta	80	80	56	48	46	45	47	47	40	40	40	80
Folsom	80	80	80	63	63	63	63	63	63	55	40	80

## **G7.8 Model Testing**

### **G7.8.1 Calibration and Validation**

A discussion of the Reclamation Temperature reservoir and river model verification is presented in (Rowell 1990, as cited in Reclamation 2008) and Rowell, 1993 and 1997, as cited in Reclamation 2008). The predicted temperatures were generally within 1-2° F of measured temperature.

### **G7.8.2 Sensitivity and Uncertainty of Model Inputs**

Sensitivity and uncertainty analyses were not conducted for the Reclamation Temperature or the SRWQM applications

## **G7.9 Model Results**

For each CALSIM II run completed, the results were post-processed using the Reclamation Temperature model to estimate monthly average temperature at desired locations. CALSIM II Scenarios run through the temperature model included Existing Conditions; Alternatives 1, 4, 5, and 6 using 2030 CALSIM II Hydrology; Alternatives 1, 4, 5 and 6 using 2070 CALSIM II hydrology; and the No Action Alternative using 2070 CALSIM hydrology.

Monthly average temperatures for each alternative were output at the Feather River confluence and Freeport for use in the fisheries summary tables

## **G7.10 Limitations**

The main limitation of CALSIM II and the Reclamation temperature model is the time-step. Mean monthly flows and temperatures do not define daily variations that could occur in the rivers due to dynamic flow and climatic conditions. However, monthly results are still useful for general comparison of alternatives. The temperature models are also unable to accurately simulate certain aspects of the actual operations strategies used when attempting to meet temperature objectives, especially on the upper Sacramento River. In the monthly model, to account for the short-term variability and the operational flexibility of the system to respond to changing conditions, cooler water than that indicated by the model is released in order to avoid exceeding the required downstream temperature target.

There is also uncertainty regarding performance characteristics of the Shasta TCD. Due to the hydraulic characteristics of the TCD, including leakage, overflow, and performance of the side intakes, the model releases are cooler than can be achieved in real-time operations; therefore, a

more conservative approach is taken in real-time operations that is not fully represented by the model.

## **G7.11 References**

Reclamation. 2008. Central Valley Project and State Water Project Operations Criteria and Plan (OCAP) Biological Assessment, Appendix H Reclamation Temperature Model and SRWQM Temperature Model. U.S. Bureau of Reclamation, Sacramento, CA August 2008.

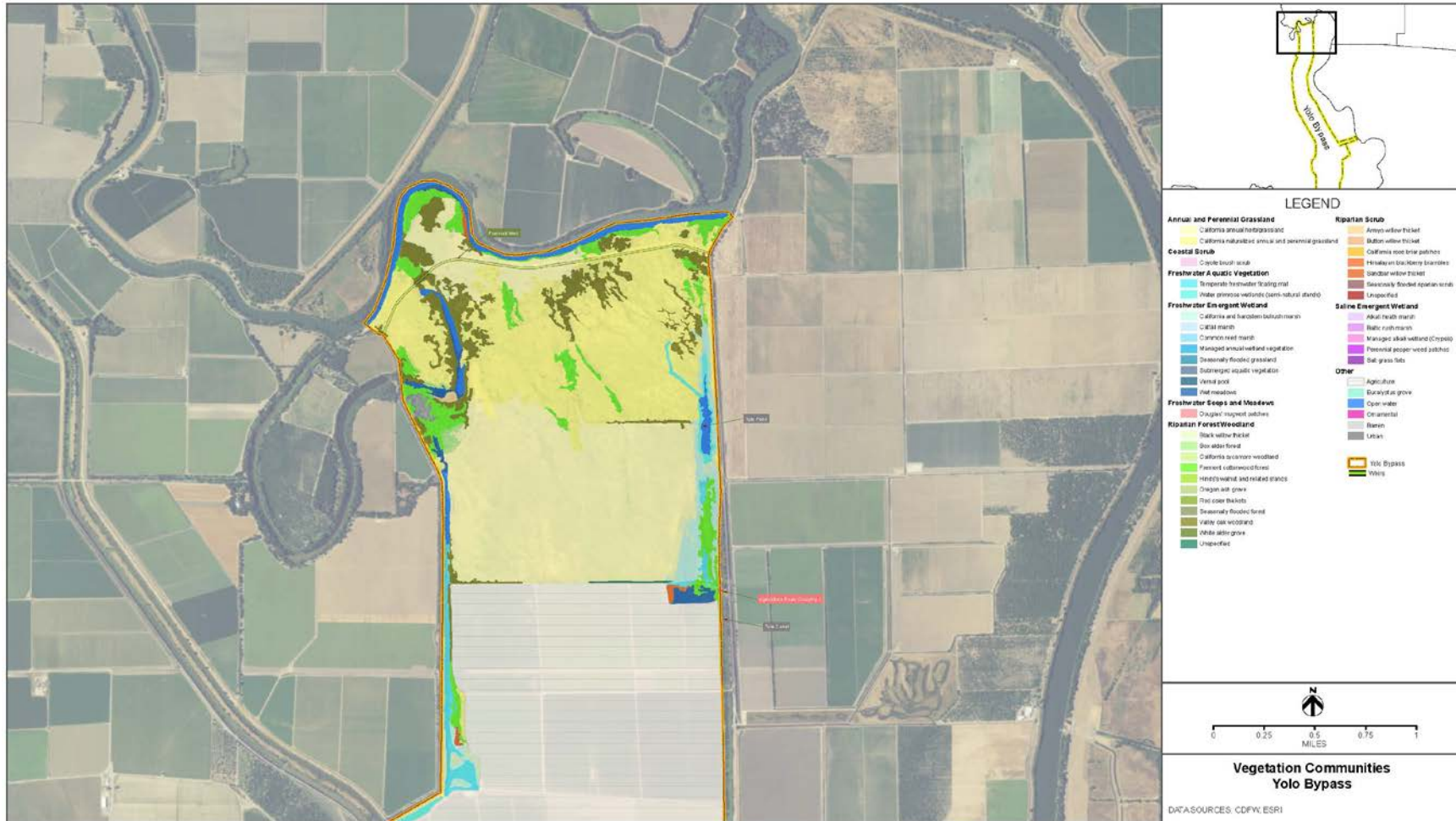
**Appendix H1**  
Yolo Bypass Vegetation Communities

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# Appendix H1. Yolo Bypass Vegetation Communities

Vegetation communities within the Yolo Bypass (operations study area) are shown in Figures H1-1 through H1-8.



**Figure H1-1.**  
**Vegetation Communities in the Yolo Bypass (Operations Study Area)**

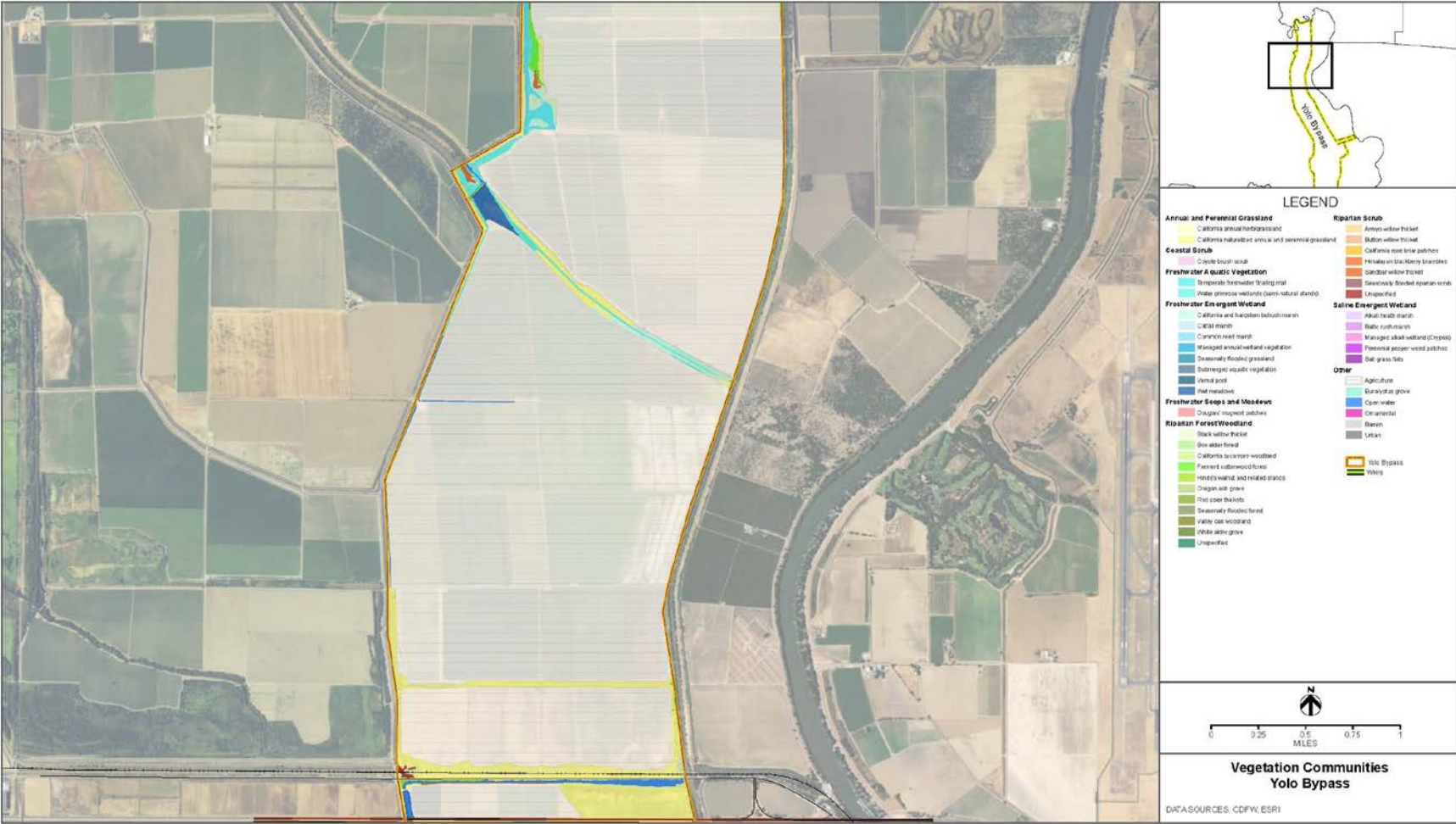


Figure H1-2. Vegetation Communities in the Yolo Bypass (Operations Study Area)





**Figure H1-3.**  
**Vegetation Communities in the Yolo Bypass (Operations Study Area)**

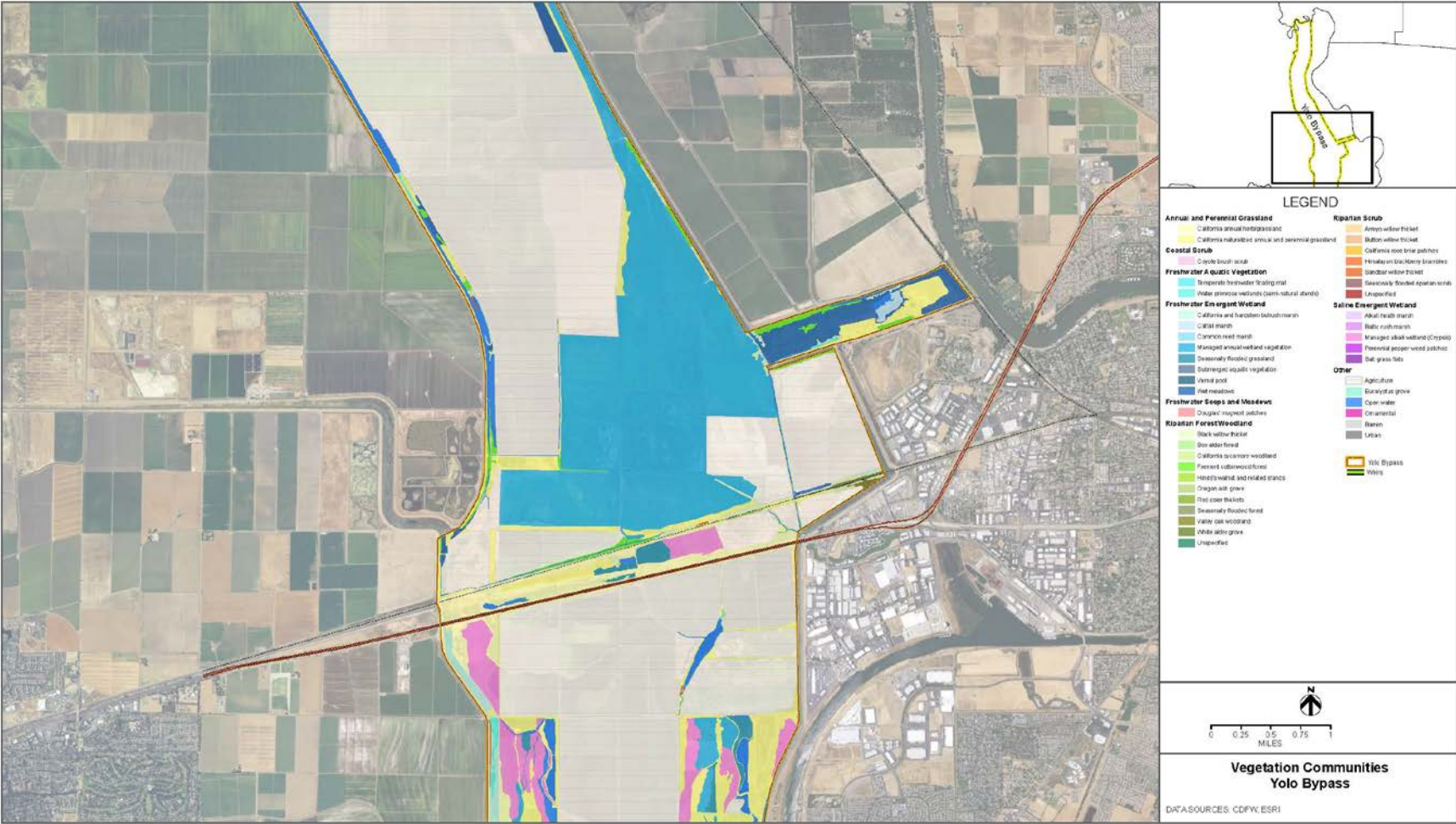


Figure H1-4. Vegetation Communities in the Yolo Bypass (Operations Study Area)



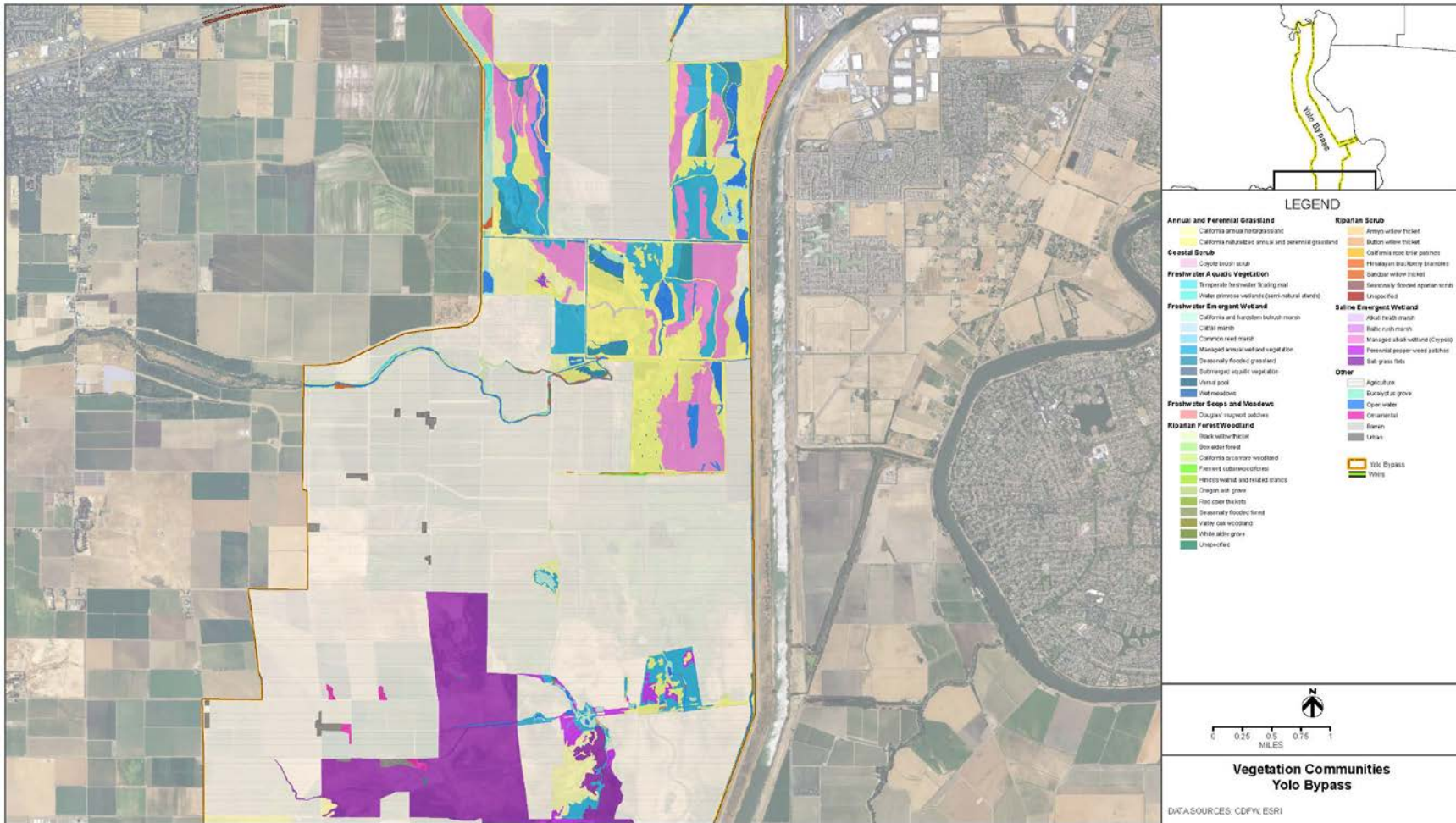


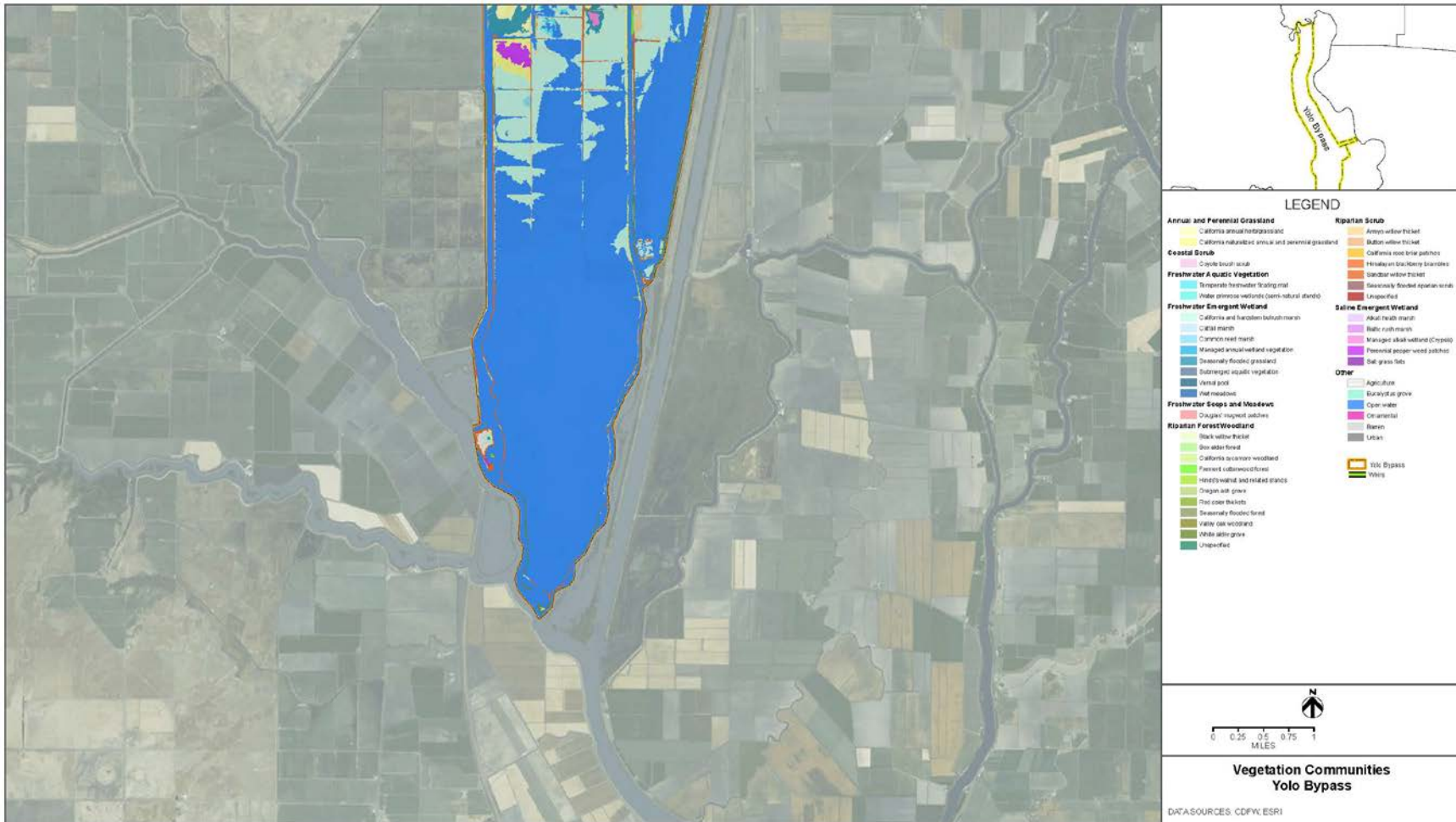
Figure H1-5. Vegetation Communities in the Yolo Bypass (Operations Study Area)











**Figure H1-8.**  
**Vegetation Communities in the Yolo Bypass (Operations Study Area)**

REFERENCES

CDFW (California Department of Fish and Wildlife). 2013. *Fine-Scale Riparian Vegetation Mapping of the Central Valley Flood Protection Plan Area Final Report*.