5C.3.2.1 New Melones Storage

Table 5C.3.2.1.1 New Melones Reservoir, End of Month Storage

No Action Alternative

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,823	1,880	1,931	1,980	1,945	2,052	2,075	1,978	1,869	1,805
20%	1,612	1,631	1,647	1,687	1,768	1,799	1,834	1,901	1,876	1,798	1,691	1,633
30%	1,533	1,534	1,556	1,598	1,686	1,729	1,686	1,745	1,786	1,707	1,605	1,556
40%	1,271	1,274	1,432	1,514	1,594	1,618	1,592	1,533	1,539	1,433	1,333	1,273
50%	1,121	1,127	1,154	1,307	1,436	1,535	1,461	1,444	1,392	1,283	1,190	1,156
60%	1,024	1,043	1,080	1,146	1,199	1,273	1,278	1,335	1,277	1,199	1,102	1,054
70%	882	911	986	1,015	1,038	1,057	1,080	1,090	1,087	994	910	868
80%	646	658	684	684	735	808	835	878	872	808	733	693
90%	430	435	440	488	541	569	574	586	630	566	507	473
Long Term												
Full Simulation Period[b]	1,132	1,142	1,180	1,237	1,305	1,348	1,337	1,373	1,381	1,300	1,208	1,159
Water Year Types[c]												
Wet (23%)	1,379	1,390	1,454	1,562	1,666	1,724	1,758	1,878	1,968	1,890	1,773	1,703
Above Normal (24%)	1,029	1,060	1,125	1,214	1,317	1,406	1,413	1,484	1,467	1,372	1,277	1,232
Below Normal (10%)	1,294	1,305	1,326	1,351	1,413	1,438	1,390	1,383	1,359	1,268	1,175	1,133
Dry (16%)	1,094	1,094	1,106	1,121	1,156	1,188	1,154	1,132	1,087	997	914	871
Critical (27%)	624	623	638	645	661	656	602	554	526	476	431	408

Revised Alternative 1

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,879	1,859	1,935	1,954	1,970	2,030	2,043	2,167	2,141	2,080	1,971	1,911
20%	1,775	1,776	1,788	1,823	1,966	1,979	1,955	1,999	2,045	1,947	1,838	1,781
30%	1,666	1,660	1,703	1,764	1,807	1,896	1,885	1,955	1,912	1,817	1,712	1,661
40%	1,508	1,514	1,596	1,693	1,771	1,801	1,788	1,756	1,711	1,634	1,541	1,496
50%	1,364	1,362	1,396	1,478	1,611	1,671	1,625	1,668	1,621	1,512	1,417	1,360
60%	1,257	1,260	1,320	1,353	1,393	1,474	1,492	1,532	1,474	1,381	1,300	1,249
70%	1,074	1,086	1,146	1,224	1,231	1,230	1,250	1,343	1,299	1,204	1,111	1,055
80%	843	824	852	894	999	1,049	1,078	1,094	1,039	975	902	861
90%	705	711	716	724	802	806	749	817	842	775	722	718
Long Term												
Full Simulation Period[b]	1,316	1,321	1,355	1,411	1,470	1,522	1,522	1,564	1,559	1,470	1,373	1,319
Water Year Types[c]												
Wet (23%)	1,534	1,539	1,596	1,700	1,784	1,864	1,901	2,027	2,087	2,001	1,880	1,802
Above Normal (24%)	1,225	1,252	1,315	1,405	1,501	1,594	1,613	1,686	1,664	1,566	1,468	1,420
Below Normal (10%)	1,479	1,484	1,500	1,522	1,576	1,605	1,579	1,581	1,555	1,457	1,359	1,313
Dry (16%)	1,285	1,280	1,287	1,303	1,335	1,369	1,351	1,338	1,291	1,197	1,112	1,067
Critical (27%)	845	843	858	869	887	885	837	789	751	682	617	587

Revised Alternative 1 minus No Action Alternative

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6%	6%	6%	4%	2%	3%	5%	6%	3%	5%	5%	6%
20%	10%	9%	9%	8%	11%	10%	7%	5%	9%	8%	9%	9%
30%	9%	8%	9%	10%	7%	10%	12%	12%	7%	6%	7%	7%
40%	19%	19%	11%	12%	11%	11%	12%	15%	11%	14%	16%	18%
50%	22%	21%	21%	13%	12%	9%	11%	15%	16%	18%	19%	18%
60%	23%	21%	22%	18%	16%	16%	17%	15%	15%	15%	18%	18%
70%	22%	19%	16%	21%	18%	16%	16%	23%	19%	21%	22%	21%
80%	31%	25%	25%	31%	36%	30%	29%	25%	19%	21%	23%	24%
90%	64%	63%	63%	48%	48%	42%	30%	39%	34%	37%	42%	52%
Long Term												
Full Simulation Period[b]	16%	16%	15%	14%	13%	13%	14%	14%	13%	13%	14%	14%
Water Year Types[c]												
Wet (23%)	11%	11%	10%	9%	7%	8%	8%	8%	6%	6%	6%	6%
Above Normal (24%)	19%	18%	17%	16%	14%	13%	14%	14%	13%	14%	15%	15%
Below Normal (10%)	14%	14%	13%	13%	12%	12%	14%	14%	14%	15%	16%	16%
Dry (16%)	17%	17%	16%	16%	15%	15%	17%	18%	19%	20%	22%	23%
Critical (27%)	36%	35%	35%	35%	34%	35%	39%	43%	43%	43%	43%	44%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.1.2 New Melones Reservoir, End of Month Storage

Revised Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,879	1,859	1,935	1,954	1,970	2,030	2,043	2,167	2,141	2,080	1,971	1,911
20%	1,775	1,776	1,788	1,823	1,966	1,979	1,955	1,999	2,045	1,947	1,838	1,781
30%	1,666	1,660	1,703	1,764	1,807	1,896	1,885	1,955	1,912	1,817	1,712	1,661
40%	1,508	1,514	1,596	1,693	1,771	1,801	1,788	1,756	1,711	1,634	1,541	1,496
50%	1,364	1,362	1,396	1,478	1,611	1,671	1,625	1,668	1,621	1,512	1,417	1,360
60%	1,257	1,260	1,320	1,353	1,393	1,474	1,492	1,532	1,474	1,381	1,300	1,249
70%	1,074	1,086	1,146	1,224	1,231	1,230	1,250	1,343	1,299	1,204	1,111	1,055
80%	843	824	852	894	999	1,049	1,078	1,094	1,039	975	902	861
90%	705	711	716	724	802	806	749	817	842	775	722	718
Long Term												
Full Simulation Period[b]	1,316	1,321	1,355	1,411	1,470	1,522	1,522	1,564	1,559	1,470	1,373	1,319
Water Year Types[c]												
Wet (23%)	1,534	1,539	1,596	1,700	1,784	1,864	1,901	2,027	2,087	2,001	1,880	1,802
Above Normal (24%)	1,225	1,252	1,315	1,405	1,501	1,594	1,613	1,686	1,664	1,566	1,468	1,420
Below Normal (10%)	1,479	1,484	1,500	1,522	1,576	1,605	1,579	1,581	1,555	1,457	1,359	1,313
Dry (16%)	1,285	1,280	1,287	1,303	1,335	1,369	1,351	1,338	1,291	1,197	1,112	1,067
Critical (27%)	845	843	858	869	887	885	837	789	751	682	617	587

No Action Alternative

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,823	1,880	1,931	1,980	1,945	2,052	2,075	1,978	1,869	1,805
20%	1,612	1,631	1,647	1,687	1,768	1,799	1,834	1,901	1,876	1,798	1,691	1,633
30%	1,533	1,534	1,556	1,598	1,686	1,729	1,686	1,745	1,786	1,707	1,605	1,556
40%	1,271	1,274	1,432	1,514	1,594	1,618	1,592	1,533	1,539	1,433	1,333	1,273
50%	1,121	1,127	1,154	1,307	1,436	1,535	1,461	1,444	1,392	1,283	1,190	1,156
60%	1,024	1,043	1,080	1,146	1,199	1,273	1,278	1,335	1,277	1,199	1,102	1,054
70%	882	911	986	1,015	1,038	1,057	1,080	1,090	1,087	994	910	868
80%	646	658	684	684	735	808	835	878	872	808	733	693
90%	430	435	440	488	541	569	574	586	630	566	507	473
Long Term												
Full Simulation Period[b]	1,132	1,142	1,180	1,237	1,305	1,348	1,337	1,373	1,381	1,300	1,208	1,159
Water Year Types[c]												
Wet (23%)	1,379	1,390	1,454	1,562	1,666	1,724	1,758	1,878	1,968	1,890	1,773	1,703
Above Normal (24%)	1,029	1,060	1,125	1,214	1,317	1,406	1,413	1,484	1,467	1,372	1,277	1,232
Below Normal (10%)	1,294	1,305	1,326	1,351	1,413	1,438	1,390	1,383	1,359	1,268	1,175	1,133
Dry (16%)	1,094	1,094	1,106	1,121	1,156	1,188	1,154	1,132	1,087	997	914	871
Critical (27%)	624	623	638	645	661	656	602	554	526	476	431	408

No Action Alternative minus Revised Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-6%	-5%	-6%	-4%	-2%	-2%	-5%	-5%	-3%	-5%	-5%	-6%
20%	-9%	-8%	-8%	-7%	-10%	-9%	-6%	-5%	-8%	-8%	-8%	-8%
30%	-8%	-8%	-9%	-9%	-7%	-9%	-11%	-11%	-7%	-6%	-6%	-6%
40%	-16%	-16%	-10%	-11%	-10%	-10%	-11%	-13%	-10%	-12%	-14%	-15%
50%	-18%	-17%	-17%	-12%	-11%	-8%	-10%	-13%	-14%	-15%	-16%	-15%
60%	-19%	-17%	-18%	-15%	-14%	-14%	-14%	-13%	-13%	-13%	-15%	-16%
70%	-18%	-16%	-14%	-17%	-16%	-14%	-14%	-19%	-16%	-17%	-18%	-18%
80%	-23%	-20%	-20%	-23%	-26%	-23%	-23%	-20%	-16%	-17%	-19%	-20%
90%	-39%	-39%	-39%	-33%	-33%	-29%	-23%	-28%	-25%	-27%	-30%	-34%
Long Term												
Full Simulation Period[b]	-14%	-14%	-13%	-12%	-11%	-11%	-12%	-12%	-11%	-12%	-12%	-12%
Water Year Types[c]												
Wet (23%)	-10%	-10%	-9%	-8%	-7%	-8%	-8%	-7%	-6%	-6%	-6%	-5%
Above Normal (24%)	-16%	-15%	-14%	-14%	-12%	-12%	-12%	-12%	-12%	-12%	-13%	-13%
Below Normal (10%)	-12%	-12%	-12%	-11%	-10%	-10%	-12%	-13%	-13%	-13%	-14%	-14%
Dry (16%)	-15%	-15%	-14%	-14%	-13%	-13%	-15%	-15%	-16%	-17%	-18%	-18%
Critical (27%)	-26%	-26%	-26%	-26%	-25%	-26%	-28%	-30%	-30%	-30%	-30%	-30%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.1.3 New Melones Reservoir, End of Month Storage

Revised Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,879	1,859	1,935	1,954	1,970	2,030	2,043	2,167	2,141	2,080	1,971	1,911
20%	1,775	1,776	1,788	1,823	1,966	1,979	1,955	1,999	2,045	1,947	1,838	1,781
30%	1,666	1,660	1,703	1,764	1,807	1,896	1,885	1,955	1,912	1,817	1,712	1,661
40%	1,508	1,514	1,596	1,693	1,771	1,801	1,788	1,756	1,711	1,634	1,541	1,496
50%	1,364	1,362	1,396	1,478	1,611	1,671	1,625	1,668	1,621	1,512	1,417	1,360
60%	1,257	1,260	1,320	1,353	1,393	1,474	1,492	1,532	1,474	1,381	1,300	1,249
70%	1,074	1,086	1,146	1,224	1,231	1,230	1,250	1,343	1,299	1,204	1,111	1,055
80%	843	824	852	894	999	1,049	1,078	1,094	1,039	975	902	861
90%	705	711	716	724	802	806	749	817	842	775	722	718
Long Term												
Full Simulation Period[b]	1,316	1,321	1,355	1,411	1,470	1,522	1,522	1,564	1,559	1,470	1,373	1,319
Water Year Types[c]												
Wet (23%)	1,534	1,539	1,596	1,700	1,784	1,864	1,901	2,027	2,087	2,001	1,880	1,802
Above Normal (24%)	1,225	1,252	1,315	1,405	1,501	1,594	1,613	1,686	1,664	1,566	1,468	1,420
Below Normal (10%)	1,479	1,484	1,500	1,522	1,576	1,605	1,579	1,581	1,555	1,457	1,359	1,313
Dry (16%)	1,285	1,280	1,287	1,303	1,335	1,369	1,351	1,338	1,291	1,197	1,112	1,067
Critical (27%)	845	843	858	869	887	885	837	789	751	682	617	587

Alternative 3

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,967	1,954	1,970	1,970	1,970	2,030	2,062	2,198	2,284	2,209	2,103	2,000
20%	1,901	1,905	1,913	1,911	1,970	2,026	1,988	2,021	2,154	2,055	1,955	1,902
30%	1,729	1,727	1,790	1,857	1,925	1,975	1,910	1,972	1,983	1,877	1,785	1,736
40%	1,582	1,596	1,668	1,775	1,851	1,884	1,838	1,826	1,796	1,697	1,601	1,546
50%	1,427	1,416	1,439	1,556	1,660	1,719	1,674	1,721	1,675	1,561	1,460	1,409
60%	1,308	1,316	1,318	1,366	1,426	1,494	1,488	1,529	1,525	1,432	1,335	1,289
70%	1,049	1,073	1,187	1,210	1,289	1,269	1,265	1,343	1,276	1,180	1,092	1,043
80%	875	862	919	957	1,020	1,099	1,056	1,121	1,071	1,001	938	907
90%	635	646	646	681	779	803	734	731	835	756	682	639
Long Term												
Full Simulation Period[b]	1,347	1,351	1,382	1,436	1,491	1,541	1,534	1,580	1,595	1,506	1,408	1,353
Water Year Types[c]												
Wet (23%)	1,562	1,567	1,618	1,720	1,792	1,871	1,906	2,049	2,146	2,057	1,934	1,855
Above Normal (24%)	1,269	1,295	1,356	1,442	1,530	1,620	1,634	1,713	1,720	1,627	1,529	1,481
Below Normal (10%)	1,530	1,536	1,550	1,570	1,620	1,650	1,614	1,617	1,599	1,501	1,403	1,357
Dry (16%)	1,327	1,320	1,326	1,342	1,378	1,409	1,380	1,360	1,319	1,224	1,137	1,091
Critical (27%)	828	824	836	846	866	860	803	751	719	653	593	563

Alternative 3 minus Revised Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5%	**5%**	2%	1%	0%	0%	1%	1%	**7%**	**6%**	**7%**	5%
20%	**7%**	**7%**	**7%**	5%	0%	2%	2%	1%	**5%**	**6%**	**6%**	**7%**
30%	4%	4%	**5%**	**5%**	**7%**	4%	1%	1%	4%	3%	4%	5%
40%	5%	**5%**	5%	5%	5%	5%	3%	4%	5%	4%	4%	3%
50%	5%	4%	3%	**5%**	3%	3%	3%	3%	3%	3%	3%	4%
60%	4%	4%	0%	1%	2%	1%	0%	0%	4%	4%	3%	3%
70%	-2%	-1%	4%	-1%	5%	3%	1%	0%	-2%	-2%	-2%	-1%
80%	4%	5%	**8%**	**7%**	2%	5%	-2%	2%	3%	3%	4%	**5%**
90%	**-10%**	**-9%**	**-10%**	**-6%**	-3%	0%	-2%	**-11%**	-1%	-2%	**-6%**	**-11%**
Long Term												
Full Simulation Period[b]	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	3%	3%
Water Year Types[c]												
Wet (23%)	2%	2%	1%	1%	0%	0%	0%	1%	3%	3%	3%	3%
Above Normal (24%)	4%	3%	3%	3%	2%	2%	1%	2%	3%	4%	4%	4%
Below Normal (10%)	3%	4%	3%	3%	3%	3%	2%	2%	3%	3%	3%	3%
Dry (16%)	3%	3%	3%	3%	3%	3%	2%	2%	2%	2%	2%	2%
Critical (27%)	-2%	-2%	-3%	-3%	-2%	-3%	-4%	-5%	-4%	-4%	-4%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.1.4 New Melones Reservoir, End of Month Storage

Revised Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,879	1,859	1,935	1,954	1,970	2,030	2,043	2,167	2,141	2,080	1,971	1,911
20%	1,775	1,776	1,788	1,823	1,966	1,979	1,955	1,999	2,045	1,947	1,838	1,781
30%	1,666	1,660	1,703	1,764	1,807	1,896	1,885	1,955	1,912	1,817	1,712	1,661
40%	1,508	1,514	1,596	1,693	1,771	1,801	1,788	1,756	1,711	1,634	1,541	1,496
50%	1,364	1,362	1,396	1,478	1,611	1,671	1,625	1,668	1,621	1,512	1,417	1,360
60%	1,257	1,260	1,320	1,353	1,393	1,474	1,492	1,532	1,474	1,381	1,300	1,249
70%	1,074	1,086	1,146	1,224	1,231	1,230	1,250	1,343	1,299	1,204	1,111	1,055
80%	843	824	852	894	999	1,049	1,078	1,094	1,039	975	902	861
90%	705	711	716	724	802	806	749	817	842	775	722	718
Long Term												
Full Simulation Period[b]	1,316	1,321	1,355	1,411	1,470	1,522	1,522	1,564	1,559	1,470	1,373	1,319
Water Year Types[c]												
Wet (23%)	1,534	1,539	1,596	1,700	1,784	1,864	1,901	2,027	2,087	2,001	1,880	1,802
Above Normal (24%)	1,225	1,252	1,315	1,405	1,501	1,594	1,613	1,686	1,664	1,566	1,468	1,420
Below Normal (10%)	1,479	1,484	1,500	1,522	1,576	1,605	1,579	1,581	1,555	1,457	1,359	1,313
Dry (16%)	1,285	1,280	1,287	1,303	1,335	1,369	1,351	1,338	1,291	1,197	1,112	1,067
Critical (27%)	845	843	858	869	887	885	837	789	751	682	617	587

Alternative 5

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,831	1,881	1,949	1,969	1,908	2,012	2,117	2,013	1,900	1,826
20%	1,588	1,587	1,601	1,626	1,782	1,794	1,752	1,844	1,816	1,740	1,631	1,571
30%	1,468	1,459	1,490	1,544	1,630	1,672	1,679	1,693	1,721	1,633	1,531	1,489
40%	1,249	1,252	1,347	1,437	1,522	1,573	1,512	1,494	1,505	1,405	1,297	1,242
50%	1,040	1,058	1,142	1,227	1,437	1,455	1,393	1,357	1,289	1,190	1,100	1,074
60%	976	997	1,023	1,072	1,134	1,161	1,159	1,246	1,218	1,130	1,032	983
70%	766	802	855	907	938	973	1,006	978	991	900	821	783
80%	554	553	620	621	623	697	651	721	761	686	617	587
90%	285	298	299	377	429	449	386	452	492	423	349	308
Long Term												
Full Simulation Period[b]	1,063	1,073	1,112	1,169	1,239	1,284	1,265	1,287	1,299	1,221	1,134	1,086
Water Year Types[c]												
Wet (23%)	1,309	1,321	1,388	1,496	1,602	1,668	1,704	1,812	1,906	1,833	1,722	1,653
Above Normal (24%)	983	1,014	1,079	1,168	1,271	1,361	1,363	1,413	1,396	1,302	1,207	1,162
Below Normal (10%)	1,210	1,220	1,242	1,267	1,329	1,354	1,298	1,276	1,254	1,163	1,071	1,028
Dry (16%)	1,018	1,018	1,030	1,045	1,081	1,114	1,066	1,031	990	903	823	781
Critical (27%)	558	559	570	578	597	591	506	449	433	391	355	336

Alternative 5 minus Revised Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-6%	-5%	-5%	-4%	-1%	-3%	-7%	-7%	-1%	-3%	-4%	-4%
20%	-11%	-11%	-10%	-11%	-9%	-9%	-10%	-8%	-11%	-11%	-11%	-12%
30%	-12%	-12%	-12%	-12%	-10%	-12%	-11%	-13%	-10%	-10%	-11%	-10%
40%	-17%	-17%	-16%	-15%	-14%	-13%	-15%	-15%	-12%	-14%	-16%	-17%
50%	-24%	-22%	-18%	-17%	-11%	-13%	-14%	-19%	-21%	-21%	-22%	-21%
60%	-22%	-21%	-23%	-21%	-19%	-21%	-22%	-19%	-17%	-18%	-21%	-21%
70%	-29%	-26%	-25%	-26%	-24%	-21%	-20%	-27%	-24%	-25%	-26%	-26%
80%	-34%	-33%	-27%	-31%	-38%	-34%	-40%	-34%	-27%	-30%	-32%	-32%
90%	-60%	-58%	-58%	-48%	-47%	-44%	-48%	-45%	-42%	-45%	-52%	-57%
Long Term												
Full Simulation Period[b]	-19%	-19%	-18%	-17%	-16%	-16%	-17%	-18%	-17%	-17%	-17%	-18%
Water Year Types[c]												
Wet (23%)	-15%	-14%	-13%	-12%	-10%	-11%	-10%	-11%	-9%	-8%	-8%	-8%
Above Normal (24%)	-20%	-19%	-18%	-17%	-15%	-15%	-16%	-16%	-16%	-17%	-18%	-18%
Below Normal (10%)	-18%	-18%	-17%	-17%	-16%	-16%	-18%	-19%	-19%	-20%	-21%	-22%
Dry (16%)	-21%	-20%	-20%	-20%	-19%	-19%	-21%	-23%	-23%	-25%	-26%	-27%
Critical (27%)	-34%	-34%	-34%	-33%	-33%	-33%	-39%	-43%	-42%	-43%	-43%	-43%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.2 New Melones Elevation

Table 5C.3.2.2.1 New Melones Reservoir, End of Month Elevation

No Action Alternative

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,035	1,040	1,046	1,089	1,047	1,094	1,095	1,085	1,039	1,033
20%	1,013	1,015	1,017	1,021	1,029	1,032	1,036	1,043	1,040	1,032	1,021	1,016
30%	1,006	1,006	1,008	1,012	1,021	1,025	1,021	1,027	1,031	1,023	1,013	1,008
40%	975	976	995	1,004	1,012	1,014	1,011	1,006	1,006	995	983	976
50%	956	957	960	980	996	1,006	998	997	991	977	965	960
60%	943	946	950	959	966	976	976	984	976	966	953	947
70%	925	928	938	942	945	947	950	952	951	939	928	923
80%	879	881	887	887	897	912	918	924	923	912	897	888
90%	835	836	837	847	857	863	864	867	876	863	850	843
Long Term												
Full Simulation Period[b]	944	946	953	962	972	979	976	981	981	969	957	950
Water Year Types[c]												
Wet (23%)	983	986	998	1,014	1,027	1,037	1,036	1,054	1,062	1,052	1,038	1,030
Above Normal (24%)	932	937	945	960	974	986	988	997	996	985	973	967
Below Normal (10%)	968	969	972	975	985	988	985	985	983	972	960	955
Dry (16%)	943	943	944	947	951	957	955	953	948	934	922	915
Critical (27%)	856	856	862	864	870	871	860	848	840	828	818	812

Revised Alternative 1

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,158	1,156	1,164	1,166	1,167	1,171	1,172	1,177	1,177	1,175	1,167	1,161
20%	1,147	1,147	1,149	1,152	1,167	1,168	1,166	1,168	1,165	1,165	1,154	1,148
30%	1,136	1,135	1,140	1,146	1,151	1,160	1,159	1,154	1,153	1,152	1,141	1,135
40%	1,119	1,120	1,128	1,139	1,147	1,150	1,149	1,143	1,135	1,132	1,123	1,118
50%	1,060	1,060	1,086	1,116	1,130	1,136	1,131	1,135	1,131	1,120	1,109	1,060
60%	1,046	1,046	1,054	1,059	1,064	1,116	1,117	1,122	1,115	1,062	1,052	1,045
70%	1,022	1,024	1,031	1,042	1,043	1,042	1,045	1,057	1,052	1,039	1,027	1,019
80%	933	930	993	998	1,012	1,019	1,022	1,025	1,017	1,009	999	994
90%	891	892	893	895	911	912	900	914	926	905	894	894
Long Term												
Full Simulation Period[b]	1,050	1,051	1,058	1,069	1,079	1,090	1,090	1,092	1,090	1,077	1,061	1,050
Water Year Types[c]												
Wet (23%)	1,098	1,098	1,110	1,128	1,139	1,151	1,155	1,162	1,162	1,165	1,154	1,148
Above Normal (24%)	1,037	1,037	1,049	1,075	1,090	1,105	1,111	1,123	1,127	1,111	1,090	1,081
Below Normal (10%)	1,081	1,085	1,087	1,090	1,105	1,115	1,112	1,113	1,111	1,092	1,081	1,064
Dry (16%)	1,052	1,051	1,053	1,055	1,061	1,075	1,074	1,069	1,060	1,035	1,013	1,000
Critical (27%)	933	933	936	939	943	943	935	927	922	908	889	877

Revised Alternative 1 minus No Action Alternative

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	13%	12%	12%	12%	12%	8%	12%	8%	8%	8%	12%	12%
20%	13%	13%	13%	13%	13%	13%	13%	12%	12%	13%	13%	13%
30%	13%	13%	13%	13%	13%	13%	13%	12%	12%	13%	13%	13%
40%	15%	15%	13%	13%	13%	13%	14%	14%	13%	14%	14%	15%
50%	11%	11%	13%	14%	13%	13%	13%	14%	14%	15%	15%	10%
60%	11%	11%	11%	10%	10%	14%	14%	14%	14%	10%	10%	10%
70%	11%	10%	10%	11%	10%	10%	10%	11%	11%	11%	11%	10%
80%	6%	6%	12%	13%	13%	12%	11%	11%	10%	11%	11%	12%
90%	7%	7%	7%	6%	6%	6%	4%	5%	6%	5%	5%	6%
Long Term												
Full Simulation Period[b]	11%	11%	11%	11%	11%	11%	12%	11%	11%	11%	11%	11%
Water Year Types[c]												
Wet (23%)	12%	11%	11%	11%	11%	11%	11%	10%	9%	11%	11%	11%
Above Normal (24%)	11%	11%	11%	12%	12%	12%	12%	13%	13%	13%	12%	12%
Below Normal (10%)	12%	12%	12%	12%	12%	13%	13%	13%	13%	12%	13%	12%
Dry (16%)	12%	12%	11%	11%	12%	12%	12%	12%	12%	11%	10%	9%
Critical (27%)	9%	9%	9%	9%	8%	8%	9%	9%	10%	10%	9%	8%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.2.2 New Melones Reservoir, End of Month Elevation

Revised Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,158	1,156	1,164	1,166	1,167	1,171	1,172	1,177	1,177	1,175	1,167	1,161
20%	1,147	1,147	1,149	1,152	1,167	1,168	1,166	1,168	1,165	1,165	1,154	1,148
30%	1,136	1,135	1,140	1,146	1,151	1,160	1,159	1,154	1,153	1,152	1,141	1,135
40%	1,119	1,120	1,128	1,139	1,147	1,150	1,149	1,143	1,135	1,132	1,123	1,118
50%	1,060	1,060	1,086	1,116	1,130	1,136	1,131	1,135	1,131	1,120	1,109	1,060
60%	1,046	1,046	1,054	1,059	1,064	1,116	1,117	1,122	1,115	1,062	1,052	1,045
70%	1,022	1,024	1,031	1,042	1,043	1,042	1,045	1,057	1,052	1,039	1,027	1,019
80%	933	930	993	998	1,012	1,019	1,022	1,025	1,017	1,009	999	994
90%	891	892	893	895	911	912	900	914	926	905	894	894
Long Term												
Full Simulation Period[b]	1,050	1,051	1,058	1,069	1,079	1,090	1,090	1,092	1,090	1,077	1,061	1,050
Water Year Types[c]												
Wet (23%)	1,098	1,098	1,110	1,128	1,139	1,151	1,155	1,162	1,162	1,165	1,154	1,148
Above Normal (24%)	1,037	1,037	1,049	1,075	1,090	1,105	1,111	1,123	1,127	1,111	1,090	1,081
Below Normal (10%)	1,081	1,085	1,087	1,090	1,105	1,115	1,112	1,113	1,111	1,092	1,081	1,064
Dry (16%)	1,052	1,051	1,053	1,055	1,061	1,075	1,074	1,069	1,060	1,035	1,013	1,000
Critical (27%)	933	933	936	939	943	943	935	927	922	908	889	877

No Action Alternative

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,035	1,040	1,046	1,089	1,047	1,094	1,095	1,085	1,039	1,033
20%	1,013	1,015	1,017	1,021	1,029	1,032	1,036	1,043	1,040	1,032	1,021	1,016
30%	1,006	1,006	1,008	1,012	1,021	1,025	1,021	1,027	1,031	1,023	1,013	1,008
40%	975	976	995	1,004	1,012	1,014	1,011	1,006	1,006	995	983	976
50%	956	957	960	980	996	1,006	998	997	991	977	965	960
60%	943	946	950	959	966	976	976	984	976	966	953	947
70%	925	928	938	942	945	947	950	952	951	939	928	923
80%	879	881	887	887	897	912	918	924	923	912	897	888
90%	835	836	837	847	857	863	864	867	876	863	850	843
Long Term												
Full Simulation Period[b]	944	946	953	962	972	979	976	981	981	969	957	950
Water Year Types[c]												
Wet (23%)	983	986	998	1,014	1,027	1,037	1,036	1,054	1,062	1,052	1,038	1,030
Above Normal (24%)	932	937	945	960	974	986	988	997	996	985	973	967
Below Normal (10%)	968	969	972	975	985	988	985	985	983	972	960	955
Dry (16%)	943	943	944	947	951	957	955	953	948	934	922	915
Critical (27%)	856	856	862	864	870	871	860	848	840	828	818	812

No Action Alternative minus Revised Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-11%	-11%	-11%	-11%	-10%	-7%	-11%	-7%	-7%	-8%	-11%	-11%
20%	-12%	-12%	-11%	-11%	-12%	-12%	-11%	-11%	-11%	-11%	-11%	-12%
30%	-11%	-11%	-12%	-12%	-11%	-12%	-12%	-11%	-11%	-11%	-11%	-11%
40%	-13%	-13%	-12%	-12%	-12%	-12%	-12%	-12%	-11%	-12%	-12%	-13%
50%	-10%	-10%	-12%	-12%	-12%	-11%	-12%	-12%	-12%	-13%	-13%	-9%
60%	-10%	-10%	-10%	-9%	-9%	-13%	-13%	-12%	-12%	-9%	-9%	-9%
70%	-10%	-9%	-9%	-10%	-9%	-9%	-9%	-10%	-10%	-10%	-10%	-9%
80%	-6%	-5%	-11%	-11%	-11%	-11%	-10%	-10%	-9%	-10%	-10%	-11%
90%	-6%	-6%	-6%	-5%	-6%	-5%	-4%	-5%	-5%	-5%	-5%	-6%
Long Term												
Full Simulation Period[b]	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Water Year Types[c]												
Wet (23%)	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-9%	-9%	-10%	-10%	-10%
Above Normal (24%)	-10%	-10%	-10%	-11%	-11%	-11%	-11%	-11%	-12%	-11%	-11%	-11%
Below Normal (10%)	-10%	-11%	-11%	-11%	-11%	-11%	-11%	-12%	-11%	-11%	-11%	-10%
Dry (16%)	-10%	-10%	-10%	-10%	-10%	-11%	-11%	-11%	-11%	-10%	-9%	-9%
Critical (27%)	-8%	-8%	-8%	-8%	-8%	-8%	-8%	-9%	-9%	-9%	-8%	-7%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.2.3 New Melones Reservoir, End of Month Elevation

Revised Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,158	1,156	1,164	1,166	1,167	1,171	1,172	1,177	1,177	1,175	1,167	1,161
20%	1,147	1,147	1,149	1,152	1,167	1,168	1,166	1,168	1,165	1,165	1,154	1,148
30%	1,136	1,135	1,140	1,146	1,151	1,160	1,159	1,154	1,153	1,152	1,141	1,135
40%	1,119	1,120	1,128	1,139	1,147	1,150	1,149	1,143	1,135	1,132	1,123	1,118
50%	1,060	1,060	1,086	1,116	1,130	1,136	1,131	1,135	1,131	1,120	1,109	1,060
60%	1,046	1,046	1,054	1,059	1,064	1,116	1,117	1,122	1,115	1,062	1,052	1,045
70%	1,022	1,024	1,031	1,042	1,043	1,042	1,045	1,057	1,052	1,039	1,027	1,019
80%	933	930	993	998	1,012	1,019	1,022	1,025	1,017	1,009	999	994
90%	891	892	893	895	911	912	900	914	926	905	894	894
Long Term												
Full Simulation Period[b]	1,050	1,051	1,058	1,069	1,079	1,090	1,090	1,092	1,090	1,077	1,061	1,050
Water Year Types[c]												
Wet (23%)	1,098	1,098	1,110	1,128	1,139	1,151	1,155	1,162	1,162	1,165	1,154	1,148
Above Normal (24%)	1,037	1,037	1,049	1,075	1,090	1,105	1,111	1,123	1,127	1,111	1,090	1,081
Below Normal (10%)	1,081	1,085	1,087	1,090	1,105	1,115	1,112	1,113	1,111	1,092	1,081	1,064
Dry (16%)	1,052	1,051	1,053	1,055	1,061	1,075	1,074	1,069	1,060	1,035	1,013	1,000
Critical (27%)	933	933	936	939	943	943	935	927	922	908	889	877

Alternative 3

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,167	1,166	1,167	1,167	1,167	1,171	1,174	1,182	1,180	1,184	1,176	1,169
20%	1,160	1,161	1,162	1,161	1,167	1,171	1,168	1,170	1,168	1,173	1,166	1,161
30%	1,142	1,142	1,149	1,156	1,163	1,168	1,161	1,159	1,149	1,158	1,148	1,143
40%	1,127	1,128	1,136	1,147	1,155	1,159	1,154	1,150	1,137	1,139	1,129	1,123
50%	1,111	1,109	1,112	1,124	1,135	1,141	1,137	1,136	1,135	1,125	1,114	1,109
60%	1,053	1,054	1,054	1,060	1,111	1,118	1,117	1,121	1,121	1,111	1,056	1,050
70%	1,019	1,022	1,037	1,040	1,050	1,048	1,047	1,057	1,049	1,036	1,024	1,018
80%	996	994	1,002	1,007	1,015	1,025	1,020	1,028	1,022	1,012	1,004	1,000
90%	877	879	879	886	906	911	897	896	925	901	886	878
Long Term												
Full Simulation Period[b]	1,056	1,057	1,061	1,070	1,083	1,091	1,090	1,092	1,089	1,082	1,065	1,056
Water Year Types[c]												
Wet (23%)	1,101	1,102	1,111	1,125	1,140	1,152	1,155	1,164	1,157	1,169	1,159	1,153
Above Normal (24%)	1,051	1,058	1,065	1,082	1,096	1,107	1,113	1,125	1,132	1,119	1,096	1,088
Below Normal (10%)	1,093	1,094	1,092	1,094	1,109	1,116	1,110	1,121	1,119	1,101	1,079	1,073
Dry (16%)	1,055	1,054	1,055	1,062	1,072	1,079	1,077	1,065	1,061	1,041	1,026	1,011
Critical (27%)	927	927	930	932	943	937	927	917	916	900	882	870

Alternative 3 minus Revised Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1%	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%
20%	1%	1%	1%	1%	0%	0%	0%	0%	0%	1%	1%	1%
30%	1%	1%	1%	1%	1%	1%	0%	0%	0%	1%	1%	1%
40%	1%	1%	1%	1%	1%	1%	0%	1%	0%	1%	1%	0%
50%	5%	5%	2%	1%	0%	0%	0%	0%	0%	0%	0%	5%
60%	1%	1%	0%	0%	4%	0%	0%	0%	0%	5%	0%	1%
70%	0%	0%	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%
80%	7%	7%	1%	1%	0%	1%	0%	0%	0%	0%	0%	1%
90%	-2%	-1%	-2%	-1%	0%	0%	0%	-2%	0%	0%	-1%	-2%
Long Term												
Full Simulation Period[b]	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Above Normal (24%)	1%	2%	2%	1%	1%	0%	0%	0%	0%	1%	1%	1%
Below Normal (10%)	1%	1%	0%	0%	0%	0%	0%	1%	1%	1%	0%	1%
Dry (16%)	0%	0%	0%	1%	1%	0%	0%	0%	0%	1%	1%	1%
Critical (27%)	-1%	-1%	-1%	-1%	0%	-1%	-1%	-1%	-1%	-1%	-1%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.2.4 New Melones Reservoir, End of Month Elevation

Revised Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,158	1,156	1,164	1,166	1,167	1,171	1,172	1,177	1,177	1,175	1,167	1,161
20%	1,147	1,147	1,149	1,152	1,167	1,168	1,166	1,168	1,165	1,165	1,154	1,148
30%	1,136	1,135	1,140	1,146	1,151	1,160	1,159	1,154	1,153	1,152	1,141	1,135
40%	1,119	1,120	1,128	1,139	1,147	1,150	1,149	1,143	1,135	1,132	1,123	1,118
50%	1,060	1,060	1,086	1,116	1,130	1,136	1,131	1,135	1,131	1,120	1,109	1,060
60%	1,046	1,046	1,054	1,059	1,064	1,116	1,117	1,122	1,115	1,062	1,052	1,045
70%	1,022	1,024	1,031	1,042	1,043	1,042	1,045	1,057	1,052	1,039	1,027	1,019
80%	933	930	993	998	1,012	1,019	1,022	1,025	1,017	1,009	999	994
90%	891	892	893	895	911	912	900	914	926	905	894	894
Long Term												
Full Simulation Period[b]	1,050	1,051	1,058	1,069	1,079	1,090	1,090	1,092	1,090	1,077	1,061	1,050
Water Year Types[c]												
Wet (23%)	1,098	1,098	1,110	1,128	1,139	1,151	1,155	1,162	1,162	1,165	1,154	1,148
Above Normal (24%)	1,037	1,037	1,049	1,075	1,090	1,105	1,111	1,123	1,127	1,111	1,090	1,081
Below Normal (10%)	1,081	1,085	1,087	1,090	1,105	1,115	1,112	1,113	1,111	1,092	1,081	1,064
Dry (16%)	1,052	1,051	1,053	1,055	1,061	1,075	1,074	1,069	1,060	1,035	1,013	1,000
Critical (27%)	933	933	936	939	943	943	935	927	922	908	889	877

Alternative 5

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,036	1,041	1,047	1,049	1,043	1,053	1,062	1,053	1,043	1,035
20%	1,011	1,011	1,012	1,015	1,031	1,032	1,028	1,037	1,034	1,026	1,015	1,009
30%	999	998	1,001	1,007	1,015	1,019	1,020	1,022	1,024	1,016	1,005	1,001
40%	973	973	985	996	1,004	1,010	1,003	1,002	1,003	992	979	972
50%	945	948	959	970	996	998	991	987	978	965	953	950
60%	937	940	943	949	957	961	961	972	968	957	944	938
70%	904	911	921	928	932	936	941	937	939	927	915	907
80%	860	860	874	874	874	889	880	894	902	887	873	867
90%	803	807	808	824	834	838	826	839	847	833	818	810
Long Term												
Full Simulation Period[b]	931	933	939	947	957	964	961	962	963	952	941	934
Water Year Types[c]												
Wet (23%)	969	971	980	995	1,007	1,016	1,020	1,031	1,040	1,033	1,022	1,015
Above Normal (24%)	924	930	939	954	968	980	982	988	987	975	963	958
Below Normal (10%)	954	956	959	962	973	977	972	970	968	957	944	938
Dry (16%)	930	930	932	934	939	945	940	936	931	918	905	898
Critical (27%)	837	838	842	845	853	855	834	818	815	804	796	791

Alternative 5 minus Revised Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-11%	-11%	-11%	-11%	-10%	-10%	-11%	-11%	-10%	-10%	-11%	-11%
20%	-12%	-12%	-12%	-12%	-12%	-12%	-12%	-11%	-11%	-12%	-12%	-12%
30%	-12%	-12%	-12%	-12%	-12%	-12%	-12%	-11%	-11%	-12%	-12%	-12%
40%	-13%	-13%	-13%	-13%	-12%	-12%	-13%	-12%	-12%	-12%	-13%	-13%
50%	-11%	-11%	-12%	-13%	-12%	-12%	-12%	-13%	-14%	-14%	-14%	-10%
60%	-10%	-10%	-11%	-10%	-10%	-14%	-14%	-13%	-13%	-10%	-10%	-10%
70%	-12%	-11%	-11%	-11%	-11%	-10%	-10%	-11%	-11%	-11%	-11%	-11%
80%	-8%	-8%	-12%	-12%	-14%	-13%	-14%	-13%	-11%	-12%	-13%	-13%
90%	-10%	-9%	-10%	-8%	-8%	-8%	-8%	-8%	-8%	-8%	-9%	-9%
Long Term												
Full Simulation Period[b]	-11%	-11%	-11%	-11%	-11%	-12%	-12%	-12%	-12%	-12%	-11%	-11%
Water Year Types[c]												
Wet (23%)	-12%	-12%	-12%	-12%	-12%	-12%	-12%	-11%	-10%	-11%	-11%	-12%
Above Normal (24%)	-11%	-10%	-10%	-11%	-11%	-11%	-12%	-12%	-12%	-12%	-12%	-11%
Below Normal (10%)	-12%	-12%	-12%	-12%	-12%	-12%	-13%	-13%	-13%	-12%	-13%	-12%
Dry (16%)	-12%	-12%	-11%	-11%	-11%	-12%	-12%	-12%	-12%	-11%	-11%	-10%
Critical (27%)	-10%	-10%	-10%	-10%	-10%	-9%	-11%	-12%	-12%	-11%	-10%	-10%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.3 Stanislaus River below Goodwin Dam Flow

Table 5C.3.2.3.1 Stanislaus River below Goodwin, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	290	306	358	897	1,648	1,633	1,929	1,103	429	390	390
20%	797	200	218	232	409	1,521	1,553	1,555	1,090	310	300	300
30%	774	200	200	232	290	440	1,553	1,296	940	300	284	250
40%	774	200	200	226	236	200	1,400	1,242	855	300	283	250
50%	774	200	200	226	236	200	1,400	1,242	363	271	283	250
60%	636	200	200	219	229	200	812	918	363	265	283	249
70%	636	200	200	219	229	200	767	705	297	265	283	249
80%	578	200	200	214	221	200	767	631	261	265	283	249
90%	577	200	200	213	215	200	505	546	255	265	283	249
Long Term												
Full Simulation Period[b]	723	278	365	518	595	754	1,158	1,123	680	394	361	351
Water Year Types[c]												
Wet (23%)	781	499	787	999	1,201	2,016	1,536	1,691	1,140	715	639	692
Above Normal (24%)	714	216	282	663	676	645	1,224	1,146	962	353	292	267
Below Normal (10%)	740	225	225	282	346	365	1,454	1,201	476	269	285	256
Dry (16%)	707	208	216	234	313	200	1,030	930	374	275	277	245
Critical (27%)	683	205	215	227	255	234	741	699	281	269	262	231

Revised Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	399	400	400	1,825	999	1,500	1,500	1,502	491	319	300
20%	349	356	358	359	863	400	1,500	1,498	1,243	313	300	300
30%	318	334	340	336	400	344	1,429	1,380	948	300	285	281
40%	260	305	323	318	364	312	1,241	1,134	713	296	283	250
50%	193	246	280	250	339	267	879	855	399	283	283	249
60%	146	217	230	183	304	200	649	725	300	271	283	249
70%	123	207	214	152	239	159	517	612	265	265	283	249
80%	115	202	206	136	176	140	462	507	255	265	283	249
90%	104	188	188	122	133	123	403	439	255	265	283	249
Long Term												
Full Simulation Period[b]	250	340	429	530	748	593	958	984	830	433	386	391
Water Year Types[c]												
Wet (23%)	334	581	884	1,038	1,692	1,597	1,511	1,556	1,813	860	729	857
Above Normal (24%)	248	269	331	666	712	484	1,051	1,062	986	352	287	268
Below Normal (10%)	254	306	306	336	532	292	1,087	1,021	414	269	283	261
Dry (16%)	245	282	290	253	387	185	686	743	346	276	283	249
Critical (27%)	181	242	252	203	256	174	511	548	278	291	277	233

Revised Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-58%	38%	31%	12%	103%	-39%	-8%	-22%	36%	14%	-18%	-23%
20%	-56%	78%	64%	55%	111%	-74%	-3%	-4%	14%	1%	0%	0%
30%	-59%	67%	70%	44%	38%	-22%	-8%	7%	1%	0%	0%	12%
40%	-66%	53%	61%	41%	54%	56%	-11%	-9%	-17%	-1%	0%	0%
50%	-75%	23%	40%	11%	44%	34%	-37%	-31%	10%	4%	0%	-1%
60%	-77%	9%	15%	-16%	33%	0%	-20%	-21%	-17%	2%	0%	0%
70%	-81%	3%	7%	-31%	5%	-21%	-33%	-13%	-11%	0%	0%	0%
80%	-80%	1%	3%	-36%	-21%	-30%	-40%	-20%	-2%	0%	0%	0%
90%	-82%	-6%	-6%	-43%	-38%	-39%	-20%	-20%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	-65%	22%	18%	2%	26%	-21%	-17%	-12%	22%	10%	7%	11%
Water Year Types[c]												
Wet (23%)	-57%	17%	12%	4%	41%	-21%	-2%	-8%	59%	20%	14%	24%
Above Normal (24%)	-65%	25%	17%	0%	5%	-25%	-14%	-7%	2%	0%	-2%	0%
Below Normal (10%)	-66%	36%	36%	19%	54%	-20%	-25%	-15%	-13%	0%	-1%	2%
Dry (16%)	-65%	36%	35%	8%	23%	-7%	-33%	-20%	-7%	0%	2%	1%
Critical (27%)	-73%	18%	17%	-10%	0%	-26%	-31%	-22%	-1%	8%	6%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.3.2 Stanislaus River below Goodwin, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	399	400	400	1,825	999	1,500	1,500	1,502	491	319	300
20%	349	356	358	359	863	400	1,500	1,498	1,243	313	300	300
30%	318	334	340	336	400	344	1,429	1,380	948	300	285	281
40%	260	305	323	318	364	312	1,241	1,134	713	296	283	250
50%	193	246	280	250	339	267	879	855	399	283	283	249
60%	146	217	230	183	304	200	649	725	300	271	283	249
70%	123	207	214	152	239	159	517	612	265	265	283	249
80%	115	202	206	136	176	140	462	507	255	265	283	249
90%	104	188	188	122	133	123	403	439	255	265	283	249
Long Term												
Full Simulation Period[b]	250	340	429	530	748	593	958	984	830	433	386	391
Water Year Types[c]												
Wet (23%)	334	581	884	1,038	1,692	1,597	1,511	1,556	1,813	860	729	857
Above Normal (24%)	248	269	331	666	712	484	1,051	1,062	986	352	287	268
Below Normal (10%)	254	306	306	336	532	292	1,087	1,021	414	269	283	261
Dry (16%)	245	282	290	253	387	185	686	743	346	276	283	249
Critical (27%)	181	242	252	203	256	174	511	548	278	291	277	233

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	290	306	358	897	1,648	1,633	1,929	1,103	429	390	390
20%	797	200	218	232	409	1,521	1,553	1,555	1,090	310	300	300
30%	774	200	200	232	290	440	1,553	1,296	940	300	284	250
40%	774	200	200	226	236	200	1,400	1,242	855	300	283	250
50%	774	200	200	226	236	200	1,400	1,242	363	271	283	250
60%	636	200	200	219	229	200	812	918	363	265	283	249
70%	636	200	200	219	229	200	767	705	297	265	283	249
80%	578	200	200	214	221	200	767	631	261	265	283	249
90%	577	200	200	213	215	200	505	546	255	265	283	249
Long Term												
Full Simulation Period[b]	723	278	365	518	595	754	1,158	1,123	680	394	361	351
Water Year Types[c]												
Wet (23%)	781	499	787	999	1,201	2,016	1,536	1,691	1,140	715	639	692
Above Normal (24%)	714	216	282	663	676	645	1,224	1,146	962	353	292	267
Below Normal (10%)	740	225	225	282	346	365	1,454	1,201	476	269	285	256
Dry (16%)	707	208	216	234	313	200	1,030	930	374	275	277	245
Critical (27%)	683	205	215	227	255	234	741	699	281	269	262	231

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	139%	-27%	-24%	-11%	-51%	65%	9%	29%	-27%	-13%	22%	30%
20%	128%	-44%	-39%	-35%	-53%	280%	4%	4%	-12%	-1%	0%	0%
30%	144%	-40%	-41%	-31%	-28%	28%	9%	-6%	-1%	0%	0%	-11%
40%	197%	-34%	-38%	-29%	-35%	-36%	13%	10%	20%	1%	0%	0%
50%	302%	-19%	-29%	-10%	-30%	-25%	59%	45%	-9%	-4%	0%	1%
60%	337%	-8%	-13%	20%	-25%	0%	25%	27%	21%	-2%	0%	0%
70%	417%	-3%	-6%	44%	-4%	26%	48%	15%	12%	0%	0%	0%
80%	403%	-1%	-3%	57%	26%	43%	66%	24%	2%	0%	0%	0%
90%	458%	6%	6%	75%	62%	63%	25%	24%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	189%	-18%	-15%	-2%	-20%	27%	21%	14%	-18%	-9%	-6%	-10%
Water Year Types[c]												
Wet (23%)	134%	-14%	-11%	-4%	-29%	26%	2%	9%	-37%	-17%	-12%	-19%
Above Normal (24%)	188%	-20%	-15%	0%	-5%	33%	17%	8%	-2%	0%	2%	0%
Below Normal (10%)	192%	-26%	-26%	-16%	-35%	25%	34%	18%	15%	0%	1%	-2%
Dry (16%)	189%	-26%	-26%	-8%	-19%	8%	50%	25%	8%	0%	-2%	-1%
Critical (27%)	277%	-15%	-15%	12%	0%	35%	45%	28%	1%	-7%	-5%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.3.3 Stanislaus River below Goodwin, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	399	400	400	1,825	999	1,500	1,500	1,502	491	319	300
20%	349	356	358	359	863	400	1,500	1,498	1,243	313	300	300
30%	318	334	340	336	400	344	1,429	1,380	948	300	285	281
40%	260	305	323	318	364	312	1,241	1,134	713	296	283	250
50%	193	246	280	250	339	267	879	855	399	283	283	249
60%	146	217	230	183	304	200	649	725	300	271	283	249
70%	123	207	214	152	239	159	517	612	265	265	283	249
80%	115	202	206	136	176	140	462	507	255	265	283	249
90%	104	188	188	122	133	123	403	439	255	265	283	249
Long Term												
Full Simulation Period[b]	250	340	429	530	748	593	958	984	830	433	386	391
Water Year Types[c]												
Wet (23%)	334	581	884	1,038	1,692	1,597	1,511	1,556	1,813	860	729	857
Above Normal (24%)	248	269	331	666	712	484	1,051	1,062	986	352	287	268
Below Normal (10%)	254	306	306	336	532	292	1,087	1,021	414	269	283	261
Dry (16%)	245	282	290	253	387	185	686	743	346	276	283	249
Critical (27%)	181	242	252	203	256	174	511	548	278	291	277	233

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	300	300	609	1,135	2,548	1,189	1,500	1,165	255	265	283	952
20%	300	300	305	300	1,157	344	1,500	1,165	255	265	283	249
30%	300	300	300	300	333	300	1,500	1,165	255	265	283	249
40%	252	300	300	300	300	300	1,034	963	255	265	283	249
50%	252	300	300	150	176	200	893	829	255	265	283	249
60%	252	300	300	150	173	200	893	829	255	265	283	249
70%	252	300	300	150	173	200	893	829	255	265	283	249
80%	200	200	220	150	173	200	528	466	255	265	283	249
90%	200	200	200	150	173	200	493	466	255	265	283	249
Long Term												
Full Simulation Period[b]	302	349	475	557	814	622	1,060	911	490	421	391	397
Water Year Types[c]												
Wet (23%)	368	589	1,001	1,066	2,016	1,599	1,538	1,300	1,279	952	768	885
Above Normal (24%)	323	287	394	705	732	552	1,155	955	255	265	283	260
Below Normal (10%)	269	275	275	483	552	272	1,128	909	255	265	283	249
Dry (16%)	285	285	293	251	371	200	815	730	255	265	283	249
Critical (27%)	246	264	274	191	208	218	680	643	245	254	268	240

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-14%	-25%	52%	184%	40%	19%	0%	-22%	-83%	-46%	-11%	217%
20%	-14%	-16%	-15%	-17%	34%	-14%	0%	-22%	-79%	-15%	-6%	-17%
30%	-6%	-10%	-12%	-11%	-17%	-13%	5%	-16%	-73%	-12%	-1%	-11%
40%	-3%	-2%	-7%	-6%	-18%	-4%	-17%	-15%	-64%	-10%	0%	0%
50%	31%	22%	7%	-40%	-48%	-25%	2%	-3%	-36%	-6%	0%	0%
60%	73%	38%	30%	-18%	-43%	0%	38%	14%	-15%	-2%	0%	0%
70%	105%	45%	40%	-1%	-28%	26%	73%	36%	-3%	0%	0%	0%
80%	74%	-1%	7%	10%	-2%	43%	14%	-8%	0%	0%	0%	0%
90%	93%	6%	6%	23%	30%	63%	22%	6%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	21%	3%	11%	5%	9%	5%	11%	-7%	-41%	-3%	1%	1%
Water Year Types[c]												
Wet (23%)	10%	1%	13%	3%	19%	0%	2%	-16%	-29%	11%	5%	3%
Above Normal (24%)	30%	7%	19%	6%	3%	14%	10%	-10%	-74%	-25%	-1%	-3%
Below Normal (10%)	6%	-10%	-10%	44%	4%	-7%	4%	-11%	-38%	-1%	0%	-5%
Dry (16%)	17%	1%	1%	-1%	-4%	8%	19%	-2%	-26%	-4%	0%	0%
Critical (27%)	36%	9%	9%	-6%	-19%	26%	33%	17%	-12%	-13%	-3%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.3.4 Stanislaus River below Goodwin, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	399	400	400	1,825	999	1,500	1,500	1,502	491	319	300
20%	349	356	358	359	863	400	1,500	1,498	1,243	313	300	300
30%	318	334	340	336	400	344	1,429	1,380	948	300	285	281
40%	260	305	323	318	364	312	1,241	1,134	713	296	283	250
50%	193	246	280	250	339	267	879	855	399	283	283	249
60%	146	217	230	183	304	200	649	725	300	271	283	249
70%	123	207	214	152	239	159	517	612	265	265	283	249
80%	115	202	206	136	176	140	462	507	255	265	283	249
90%	104	188	188	122	133	123	403	439	255	265	283	249
Long Term												
Full Simulation Period[b]	250	340	429	530	748	593	958	984	830	433	386	391
Water Year Types[c]												
Wet (23%)	334	581	884	1,038	1,692	1,597	1,511	1,556	1,813	860	729	857
Above Normal (24%)	248	269	331	666	712	484	1,051	1,062	986	352	287	268
Below Normal (10%)	254	306	306	336	532	292	1,087	1,021	414	269	283	261
Dry (16%)	245	282	290	253	387	185	686	743	346	276	283	249
Critical (27%)	181	242	252	203	256	174	511	548	278	291	277	233

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	797	200	306	358	885	1,636	1,717	1,958	1,103	423	300	300
20%	797	200	211	232	415	1,521	1,633	1,815	979	307	300	300
30%	774	200	200	232	274	343	1,553	1,595	940	300	283	250
40%	774	200	200	226	236	200	1,487	1,555	759	297	283	250
50%	636	200	200	226	236	200	1,400	1,341	363	265	283	249
60%	636	200	200	219	229	200	1,324	1,242	342	265	283	249
70%	636	200	200	219	222	200	1,134	1,068	270	265	283	249
80%	577	200	200	213	221	200	825	887	255	265	283	249
90%	577	200	200	213	214	200	767	798	255	265	283	249
Long Term												
Full Simulation Period[b]	711	276	345	520	580	712	1,317	1,375	660	369	332	341
Water Year Types[c]												
Wet (23%)	766	499	690	998	1,169	1,831	1,502	1,730	1,093	619	523	655
Above Normal (24%)	705	211	298	676	659	645	1,170	1,553	962	353	292	267
Below Normal (10%)	733	225	225	281	345	365	1,416	1,267	462	269	285	256
Dry (16%)	690	208	216	233	312	200	1,454	1,370	366	275	277	245
Critical (27%)	674	200	210	221	242	234	1,175	948	257	260	253	224

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	128%	-50%	-24%	-11%	-52%	64%	14%	31%	-27%	-14%	-6%	0%
20%	128%	-44%	-41%	-35%	-52%	280%	9%	21%	-21%	-2%	0%	0%
30%	144%	-40%	-41%	-31%	-31%	0%	9%	16%	-1%	0%	-1%	-11%
40%	197%	-34%	-38%	-29%	-35%	-36%	20%	37%	6%	0%	0%	0%
50%	230%	-19%	-29%	-10%	-30%	-25%	59%	57%	-9%	-6%	0%	0%
60%	337%	-8%	-13%	20%	-25%	0%	104%	71%	14%	-2%	0%	0%
70%	417%	-3%	-6%	44%	-7%	26%	120%	74%	2%	0%	0%	0%
80%	402%	-1%	-3%	56%	26%	43%	79%	75%	0%	0%	0%	0%
90%	458%	6%	6%	75%	61%	63%	90%	82%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	185%	-19%	-20%	-2%	-22%	20%	37%	40%	-21%	-15%	-14%	-13%
Water Year Types[c]												
Wet (23%)	129%	-14%	-22%	-4%	-31%	15%	-1%	11%	-40%	-28%	-28%	-24%
Above Normal (24%)	185%	-22%	-10%	2%	-7%	33%	11%	46%	-2%	0%	2%	0%
Below Normal (10%)	189%	-26%	-26%	-16%	-35%	25%	30%	24%	12%	0%	1%	-2%
Dry (16%)	182%	-26%	-26%	-8%	-19%	8%	112%	84%	6%	0%	-2%	-1%
Critical (27%)	272%	-17%	-16%	9%	-5%	35%	130%	73%	-8%	-11%	-9%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.4 Stanislaus River at Mouth Flow

Table 5C.3.2.4.1 Stanislaus River at Mouth, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,122	463	442	576	1,084	1,969	1,886	1,989	1,536	751	587	646
20%	1,029	384	368	427	643	1,708	1,769	1,647	1,334	606	488	507
30%	982	348	319	368	472	520	1,696	1,536	1,221	502	462	473
40%	958	337	304	347	406	433	1,610	1,362	1,053	442	445	443
50%	879	319	290	337	369	367	1,485	1,289	635	412	445	439
60%	826	292	281	326	331	336	936	873	510	383	416	428
70%	772	267	262	312	279	314	806	755	406	372	395	389
80%	755	260	241	295	253	241	686	646	358	341	371	360
90%	676	248	224	273	230	207	572	576	311	308	331	318
Long Term												
Full Simulation Period[b]	903	398	448	630	719	903	1,279	1,207	883	546	505	533
Water Year Types[c]												
Wet (23%)	952	624	881	1,115	1,412	2,258	1,779	1,828	1,456	976	831	946
Above Normal (24%)	907	347	357	776	786	801	1,410	1,244	1,257	534	467	480
Below Normal (10%)	932	354	358	430	517	539	1,556	1,378	669	449	440	429
Dry (16%)	916	322	300	349	405	345	1,064	1,002	530	375	397	399
Critical (27%)	837	310	277	317	319	286	754	695	335	321	346	342

Revised Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	653	567	590	624	2,437	1,243	1,824	1,680	1,791	932	588	706
20%	577	482	480	506	987	615	1,626	1,588	1,545	564	488	506
30%	491	441	431	462	560	531	1,495	1,515	1,261	499	458	473
40%	424	409	382	434	498	458	1,303	1,285	1,041	443	445	446
50%	377	386	336	392	442	405	1,022	903	726	412	441	439
60%	314	344	312	279	399	311	716	756	418	389	420	431
70%	284	313	291	248	320	277	584	601	375	374	396	397
80%	248	270	270	229	232	226	469	541	347	349	374	370
90%	185	243	204	199	178	146	424	471	312	317	347	320
Long Term												
Full Simulation Period[b]	430	460	512	642	872	741	1,079	1,067	1,034	585	530	573
Water Year Types[c]												
Wet (23%)	505	706	978	1,155	1,903	1,839	1,754	1,693	2,130	1,121	921	1,111
Above Normal (24%)	441	400	406	779	822	641	1,237	1,160	1,281	533	461	480
Below Normal (10%)	445	435	438	484	703	466	1,189	1,197	607	449	438	434
Dry (16%)	454	397	375	368	479	330	720	816	502	376	404	402
Critical (27%)	336	347	314	294	320	226	524	544	332	343	361	344

Revised Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-42%	22%	33%	8%	125%	-37%	-3%	-16%	17%	24%	0%	9%
20%	-44%	26%	31%	19%	54%	-64%	-8%	-4%	16%	-7%	0%	0%
30%	-50%	27%	35%	26%	19%	2%	-12%	-1%	3%	-1%	-1%	0%
40%	-56%	21%	25%	25%	23%	6%	-19%	-6%	-1%	0%	0%	1%
50%	-57%	21%	16%	16%	20%	10%	-31%	-30%	14%	0%	-1%	0%
60%	-62%	18%	11%	-14%	21%	-7%	-23%	-13%	-18%	1%	1%	1%
70%	-63%	18%	11%	-20%	14%	-12%	-28%	-20%	-8%	0%	0%	2%
80%	-67%	4%	12%	-22%	-8%	-6%	-32%	-16%	-3%	3%	1%	3%
90%	-73%	-2%	-9%	-27%	-22%	-29%	-26%	-18%	0%	3%	5%	1%
Long Term												
Full Simulation Period[b]	-52%	16%	14%	2%	21%	-18%	-16%	-12%	17%	7%	5%	7%
Water Year Types[c]												
Wet (23%)	-47%	13%	11%	4%	35%	-19%	-1%	-7%	46%	15%	11%	17%
Above Normal (24%)	-51%	15%	14%	0%	5%	-20%	-12%	-7%	2%	0%	-1%	0%
Below Normal (10%)	-52%	23%	23%	13%	36%	-14%	-24%	-13%	-9%	0%	0%	1%
Dry (16%)	-50%	23%	25%	5%	18%	-4%	-32%	-19%	-5%	0%	2%	1%
Critical (27%)	-60%	12%	13%	-7%	0%	-21%	-30%	-22%	-1%	7%	4%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.4.2 Stanislaus River at Mouth, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	653	567	590	624	2,437	1,243	1,824	1,680	1,791	932	588	706
20%	577	482	480	506	987	615	1,626	1,588	1,545	564	488	506
30%	491	441	431	462	560	531	1,495	1,515	1,261	499	458	473
40%	424	409	382	434	498	458	1,303	1,285	1,041	443	445	446
50%	377	386	336	392	442	405	1,022	903	726	412	441	439
60%	314	344	312	279	399	311	716	756	418	389	420	431
70%	284	313	291	248	320	277	584	601	375	374	396	397
80%	248	270	270	229	232	226	469	541	347	349	374	370
90%	185	243	204	199	178	146	424	471	312	317	347	320
Long Term												
Full Simulation Period[b]	430	460	512	642	872	741	1,079	1,067	1,034	585	530	573
Water Year Types[c]												
Wet (23%)	505	706	978	1,155	1,903	1,839	1,754	1,693	2,130	1,121	921	1,111
Above Normal (24%)	441	400	406	779	822	641	1,237	1,160	1,281	533	461	480
Below Normal (10%)	445	435	438	484	703	466	1,189	1,197	607	449	438	434
Dry (16%)	454	397	375	368	479	330	720	816	502	376	404	402
Critical (27%)	336	347	314	294	320	226	524	544	332	343	361	344

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,122	463	442	576	1,084	1,969	1,886	1,989	1,536	751	587	646
20%	1,029	384	368	427	643	1,708	1,769	1,647	1,334	606	488	507
30%	982	348	319	368	472	520	1,696	1,536	1,221	502	462	473
40%	958	337	304	347	406	433	1,610	1,362	1,053	442	445	443
50%	879	319	290	337	369	367	1,485	1,289	635	412	445	439
60%	826	292	281	326	331	336	936	873	510	383	416	428
70%	772	267	262	312	279	314	806	755	406	372	395	389
80%	755	260	241	295	253	241	686	646	358	341	371	360
90%	676	248	224	273	230	207	572	576	311	308	331	318
Long Term												
Full Simulation Period[b]	903	398	448	630	719	903	1,279	1,207	883	546	505	533
Water Year Types[c]												
Wet (23%)	952	624	881	1,115	1,412	2,258	1,779	1,828	1,456	976	831	946
Above Normal (24%)	907	347	357	776	786	801	1,410	1,244	1,257	534	467	480
Below Normal (10%)	932	354	358	430	517	539	1,556	1,378	669	449	440	429
Dry (16%)	916	322	300	349	405	345	1,064	1,002	530	375	397	399
Critical (27%)	837	310	277	317	319	286	754	695	335	321	346	342

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	72%	-18%	-25%	-8%	-56%	58%	3%	18%	-14%	-19%	0%	-9%
20%	78%	-20%	-23%	-16%	-35%	178%	9%	4%	-14%	7%	0%	0%
30%	100%	-21%	-26%	-20%	-16%	-2%	13%	1%	-3%	1%	1%	0%
40%	126%	-18%	-20%	-20%	-19%	-5%	24%	6%	1%	0%	0%	-1%
50%	133%	-17%	-14%	-14%	-16%	-9%	45%	43%	-13%	0%	1%	0%
60%	163%	-15%	-10%	17%	-17%	8%	31%	15%	22%	-1%	-1%	-1%
70%	171%	-15%	-10%	26%	-13%	13%	38%	26%	8%	0%	0%	-2%
80%	204%	-4%	-11%	29%	9%	7%	46%	19%	3%	-2%	-1%	-3%
90%	265%	2%	10%	37%	29%	42%	35%	22%	0%	-3%	-5%	-1%
Long Term												
Full Simulation Period[b]	110%	-13%	-13%	-2%	-18%	22%	19%	13%	-15%	-7%	-5%	-7%
Water Year Types[c]												
Wet (23%)	88%	-12%	-10%	-3%	-26%	23%	1%	8%	-32%	-13%	-10%	-15%
Above Normal (24%)	106%	-13%	-12%	0%	-4%	25%	14%	7%	-2%	0%	1%	0%
Below Normal (10%)	109%	-19%	-18%	-11%	-26%	16%	31%	15%	10%	0%	0%	-1%
Dry (16%)	102%	-19%	-20%	-5%	-15%	4%	48%	23%	6%	0%	-2%	-1%
Critical (27%)	149%	-11%	-12%	8%	0%	27%	44%	28%	1%	-6%	-4%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.4.3 Stanislaus River at Mouth, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	653	567	590	624	2,437	1,243	1,824	1,680	1,791	932	588	706
20%	577	482	480	506	987	615	1,626	1,588	1,545	564	488	506
30%	491	441	431	462	560	531	1,495	1,515	1,261	499	458	473
40%	424	409	382	434	498	458	1,303	1,285	1,041	443	445	446
50%	377	386	336	392	442	405	1,022	903	726	412	441	439
60%	314	344	312	279	399	311	716	756	418	389	420	431
70%	284	313	291	248	320	277	584	601	375	374	396	397
80%	248	270	270	229	232	226	469	541	347	349	374	370
90%	185	243	204	199	178	146	424	471	312	317	347	320
Long Term												
Full Simulation Period[b]	430	460	512	642	872	741	1,079	1,067	1,034	585	530	573
Water Year Types[c]												
Wet (23%)	505	706	978	1,155	1,903	1,839	1,754	1,693	2,130	1,121	921	1,111
Above Normal (24%)	441	400	406	779	822	641	1,237	1,160	1,281	533	461	480
Below Normal (10%)	445	435	438	484	703	466	1,189	1,197	607	449	438	434
Dry (16%)	454	397	375	368	479	330	720	816	502	376	404	402
Critical (27%)	336	347	314	294	320	226	524	544	332	343	361	344

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	679	485	722	1,267	2,628	1,444	1,865	1,414	950	885	571	1,146
20%	557	456	438	518	1,301	734	1,634	1,306	679	535	480	489
30%	482	441	411	410	502	486	1,552	1,233	558	476	457	450
40%	448	424	400	374	416	419	1,240	1,043	428	424	445	439
50%	435	402	381	311	366	367	1,064	920	413	382	440	435
60%	392	372	362	275	308	334	996	882	374	374	410	415
70%	377	359	325	251	238	312	893	829	352	350	390	384
80%	360	333	300	232	201	238	575	550	304	327	367	360
90%	293	260	239	198	180	203	493	489	273	290	347	320
Long Term												
Full Simulation Period[b]	482	469	558	669	938	770	1,180	995	693	573	535	578
Water Year Types[c]												
Wet (23%)	539	714	1,096	1,183	2,227	1,841	1,781	1,437	1,596	1,213	961	1,139
Above Normal (24%)	516	418	468	818	843	708	1,341	1,054	550	446	457	473
Below Normal (10%)	461	404	408	632	723	446	1,230	1,086	449	445	438	422
Dry (16%)	495	399	377	365	463	345	849	803	411	365	404	402
Critical (27%)	401	369	336	282	272	271	692	639	299	305	351	351

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4%	**-14%**	**22%**	**103%**	**8%**	**16%**	2%	**-16%**	**-47%**	**-5%**	-3%	**62%**
20%	-3%	**-5%**	**-9%**	2%	**32%**	**19%**	1%	**-18%**	**-56%**	**-5%**	-2%	-3%
30%	-2%	0%	-5%	**-11%**	**-10%**	**-8%**	4%	**-19%**	**-56%**	-4%	0%	-5%
40%	**6%**	4%	5%	**-14%**	**-16%**	**-8%**	-5%	**-19%**	**-59%**	-4%	0%	-1%
50%	**15%**	4%	**13%**	**-21%**	**-17%**	**-9%**	4%	2%	**-43%**	**-7%**	0%	-1%
60%	**25%**	**8%**	**16%**	-2%	**-23%**	**7%**	**39%**	**17%**	**-11%**	-4%	-2%	-4%
70%	**33%**	**15%**	**12%**	1%	**-25%**	**12%**	**53%**	**38%**	**-6%**	**-6%**	-2%	-3%
80%	**45%**	**23%**	**11%**	1%	**-13%**	**6%**	**23%**	2%	**-13%**	**-6%**	-2%	-3%
90%	**58%**	**7%**	**17%**	0%	1%	**39%**	**16%**	4%	**-13%**	**-9%**	0%	0%
Long Term												
Full Simulation Period[b]	**12%**	2%	**9%**	4%	**8%**	4%	**9%**	**-7%**	**-33%**	-2%	1%	1%
Water Year Types[c]												
Wet (23%)	**7%**	1%	**12%**	2%	**17%**	0%	2%	**-15%**	**-25%**	**8%**	4%	2%
Above Normal (24%)	**17%**	5%	**15%**	5%	3%	**11%**	**8%**	**-9%**	**-57%**	**-16%**	-1%	-2%
Below Normal (10%)	3%	**-7%**	**-7%**	**30%**	3%	-4%	3%	**-9%**	**-26%**	-1%	0%	-3%
Dry (16%)	**9%**	1%	1%	-1%	-3%	4%	**18%**	-2%	**-18%**	-3%	0%	0%
Critical (27%)	**19%**	**6%**	**7%**	-4%	**-15%**	**20%**	**32%**	**17%**	**-10%**	**-11%**	-3%	2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.4.4 Stanislaus River at Mouth, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	653	567	590	624	2,437	1,243	1,824	1,680	1,791	932	588	706
20%	577	482	480	506	987	615	1,626	1,588	1,545	564	488	506
30%	491	441	431	462	560	531	1,495	1,515	1,261	499	458	473
40%	424	409	382	434	498	458	1,303	1,285	1,041	443	445	446
50%	377	386	336	392	442	405	1,022	903	726	412	441	439
60%	314	344	312	279	399	311	716	756	418	389	420	431
70%	284	313	291	248	320	277	584	601	375	374	396	397
80%	248	270	270	229	232	226	469	541	347	349	374	370
90%	185	243	204	199	178	146	424	471	312	317	347	320
Long Term												
Full Simulation Period[b]	430	460	512	642	872	741	1,079	1,067	1,034	585	530	573
Water Year Types[c]												
Wet (23%)	505	706	978	1,155	1,903	1,839	1,754	1,693	2,130	1,121	921	1,111
Above Normal (24%)	441	400	406	779	822	641	1,237	1,160	1,281	533	461	480
Below Normal (10%)	445	435	438	484	703	466	1,189	1,197	607	449	438	434
Dry (16%)	454	397	375	368	479	330	720	816	502	376	404	402
Critical (27%)	336	347	314	294	320	226	524	544	332	343	361	344

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,121	456	442	570	1,081	1,952	1,950	2,148	1,536	719	571	659
20%	1,029	382	378	416	586	1,708	1,815	1,974	1,319	564	488	501
30%	979	348	319	363	483	495	1,707	1,806	1,139	502	461	473
40%	903	336	304	347	401	415	1,630	1,672	1,034	442	445	443
50%	854	318	290	337	368	365	1,529	1,434	635	407	443	439
60%	818	292	281	326	319	333	1,311	1,290	485	382	413	428
70%	764	267	262	312	272	312	1,168	1,183	383	371	389	389
80%	748	260	241	295	245	241	1,044	962	343	339	367	356
90%	681	248	224	270	230	207	865	752	300	307	305	316
Long Term												
Full Simulation Period[b]	891	396	428	631	704	860	1,437	1,458	863	521	476	522
Water Year Types[c]												
Wet (23%)	937	624	784	1,115	1,380	2,073	1,744	1,866	1,409	880	716	909
Above Normal (24%)	898	342	372	790	770	801	1,356	1,651	1,257	534	467	480
Below Normal (10%)	925	354	358	430	516	539	1,518	1,444	656	449	440	429
Dry (16%)	900	322	300	347	403	345	1,488	1,442	522	375	397	399
Critical (27%)	829	306	272	311	306	286	1,187	944	310	311	337	335

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	72%	-20%	-25%	-9%	-56%	57%	7%	28%	-14%	-23%	-3%	-7%
20%	78%	-21%	-21%	-18%	-41%	178%	12%	24%	-15%	0%	0%	-1%
30%	99%	-21%	-26%	-22%	-14%	-7%	14%	19%	-10%	1%	1%	0%
40%	113%	-18%	-20%	-20%	-19%	-9%	25%	30%	-1%	0%	0%	-1%
50%	127%	-18%	-14%	-14%	-17%	-10%	50%	59%	-13%	-1%	0%	0%
60%	160%	-15%	-10%	17%	-20%	7%	83%	71%	16%	-2%	-2%	-1%
70%	169%	-15%	-10%	26%	-15%	12%	100%	97%	2%	-1%	-2%	-2%
80%	201%	-4%	-11%	29%	6%	7%	122%	78%	-1%	-3%	-2%	-4%
90%	268%	2%	10%	36%	29%	42%	104%	60%	-4%	-3%	-12%	-1%
Long Term												
Full Simulation Period[b]	107%	-14%	-16%	-2%	-19%	16%	33%	37%	-17%	-11%	-10%	-9%
Water Year Types[c]												
Wet (23%)	85%	-12%	-20%	-3%	-28%	13%	-1%	10%	-34%	-21%	-22%	-18%
Above Normal (24%)	104%	-15%	-8%	1%	-6%	25%	10%	42%	-2%	0%	1%	0%
Below Normal (10%)	108%	-19%	-18%	-11%	-27%	16%	28%	21%	8%	0%	0%	-1%
Dry (16%)	98%	-19%	-20%	-6%	-16%	4%	107%	77%	4%	0%	-2%	-1%
Critical (27%)	147%	-12%	-13%	6%	-4%	27%	127%	74%	-6%	-9%	-7%	-3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.5 Stanislaus River below New Melones Temperature

Table 5C.3.2.5.1 Stanislaus River below New Melones Reservoir, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	56.0	53.6	52.1	51.1	50.7	51.0	51.6	52.6	53.7	55.1	57.5
20%	55.6	54.6	52.7	51.5	50.4	49.9	50.2	51.1	51.8	52.5	53.0	54.4
30%	53.4	53.3	52.3	50.9	49.7	49.5	49.9	50.5	51.1	51.8	52.5	53.0
40%	52.9	52.8	51.8	50.6	49.4	49.2	49.7	50.3	50.8	51.4	51.9	52.5
50%	52.4	52.5	51.6	50.2	49.2	49.0	49.3	49.7	50.3	51.1	51.6	52.0
60%	52.0	52.1	51.4	49.9	48.9	48.7	48.9	49.3	49.7	50.4	50.9	51.4
70%	51.4	51.6	51.0	49.6	48.7	48.1	48.4	49.0	49.3	50.0	50.5	51.0
80%	51.1	51.2	50.3	49.2	48.0	47.5	48.0	48.4	48.9	49.6	50.1	50.7
90%	49.9	49.9	49.8	48.3	47.0	46.8	46.9	47.2	47.5	48.5	48.9	49.3
Long Term												
Full Simulation Period[b]	53.4	52.8	51.7	50.2	49.1	48.8	49.2	49.9	50.6	51.3	52.2	53.1
Water Year Types[c]												
Wet (23%)	49.6	49.6	48.7	49.4	48.1	47.9	47.8	48.1	48.5	49.0	49.5	49.9
Above Normal (24%)	53.8	52.7	51.2	49.5	48.2	48.0	48.4	48.9	49.6	50.4	51.4	52.2
Below Normal (10%)	52.6	52.2	51.3	50.2	49.2	48.8	49.1	49.6	50.2	50.9	51.5	52.1
Dry (16%)	52.3	52.4	51.8	50.7	49.8	49.4	49.7	50.3	51.0	51.9	52.9	53.8
Critical (27%)	54.8	53.7	52.5	51.2	50.4	50.0	50.8	52.1	53.1	53.9	54.9	56.8

Revised Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	54.7	54.8	53.5	52.1	51.2	50.7	51.0	51.5	52.1	53.0	53.7	54.1
20%	53.8	53.9	52.7	51.5	50.4	50.1	50.2	50.9	51.5	52.0	52.7	53.1
30%	52.8	52.8	52.3	50.9	50.0	49.6	49.9	50.4	50.9	51.4	52.2	52.5
40%	52.3	52.3	51.7	50.7	49.6	49.3	49.7	50.2	50.6	51.1	51.7	52.0
50%	51.8	51.9	51.4	50.3	49.4	49.1	49.3	49.6	50.1	50.7	51.3	51.6
60%	51.3	51.6	51.3	50.1	49.1	48.7	48.9	49.3	49.8	50.3	50.7	51.1
70%	51.1	51.4	51.0	49.8	48.9	48.4	48.7	49.0	49.4	50.0	50.5	50.8
80%	50.6	50.9	50.6	49.4	48.5	48.0	47.9	48.4	49.1	49.5	50.0	50.4
90%	49.8	50.0	50.1	49.1	47.6	47.1	47.2	47.5	48.0	48.6	49.1	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.4	49.4	49.0	49.2	49.7	50.2	50.9	51.8	52.2
Water Year Types[c]												
Wet (23%)	48.9	49.0	48.5	49.5	48.2	47.9	48.0	48.3	48.7	49.1	49.6	50.0
Above Normal (24%)	53.1	52.8	51.6	49.9	48.7	48.2	48.4	48.8	49.4	50.0	50.8	51.4
Below Normal (10%)	51.5	51.6	51.1	50.4	49.4	49.0	49.2	49.6	50.1	50.6	51.1	51.6
Dry (16%)	51.5	51.7	51.4	50.6	49.9	49.6	49.8	50.2	50.8	51.3	51.9	52.5
Critical (27%)	53.6	53.4	52.4	51.4	50.7	50.2	50.6	51.4	52.2	53.2	54.8	55.0

Revised Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-4.1**	**-1.3**	-0.2	0.0	0.1	0.0	0.0	-0.1	-0.5	**-0.7**	**-1.4**	**-3.4**
20%	**-1.9**	**-0.7**	-0.1	0.0	0.0	0.2	0.0	-0.2	-0.3	-0.5	-0.3	**-1.3**
30%	**-0.6**	-0.4	0.0	0.0	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.3	-0.5
40%	**-0.7**	-0.5	-0.2	0.1	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.2	-0.5
50%	**-0.6**	**-0.6**	-0.1	0.1	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.3	-0.4
60%	**-0.7**	-0.5	0.0	0.2	0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.3
70%	-0.2	-0.2	0.0	0.2	0.2	0.3	0.3	0.1	0.1	-0.1	0.0	-0.2
80%	-0.5	-0.3	0.2	0.2	0.5	**0.5**	-0.1	0.0	0.2	-0.1	-0.1	-0.4
90%	-0.1	0.1	0.3	**0.8**	**0.6**	0.2	0.2	0.3	0.4	0.1	0.2	0.1
Long Term												
Full Simulation Period[b]	**-0.9**	-0.4	0.0	0.2	0.3	0.2	0.0	-0.2	-0.3	-0.4	-0.4	**-0.9**
Water Year Types[c]												
Wet (23%)	**-0.7**	**-0.6**	-0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.0
Above Normal (24%)	**-0.7**	0.1	0.4	0.4	**0.5**	0.2	0.0	-0.1	-0.2	-0.4	**-0.6**	**-0.8**
Below Normal (10%)	**-1.1**	**-0.6**	-0.2	0.1	0.2	0.2	0.2	0.0	-0.1	-0.3	-0.4	**-0.5**
Dry (16%)	**-0.8**	**-0.7**	-0.4	-0.1	0.1	0.2	0.1	-0.1	-0.2	**-0.6**	**-1.0**	**-1.3**
Critical (27%)	**-1.2**	-0.2	0.0	0.2	0.3	0.3	-0.2	**-0.7**	**-1.0**	**-0.7**	-0.2	**-1.8**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.5.2 Stanislaus River below New Melones Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	54.7	54.8	53.5	52.1	51.2	50.7	51.0	51.5	52.1	53.0	53.7	54.1
20%	53.8	53.9	52.7	51.5	50.4	50.1	50.2	50.9	51.5	52.0	52.7	53.1
30%	52.8	52.8	52.3	50.9	50.0	49.6	49.9	50.4	50.9	51.4	52.2	52.5
40%	52.3	52.3	51.7	50.7	49.6	49.3	49.7	50.2	50.6	51.1	51.7	52.0
50%	51.8	51.9	51.4	50.3	49.4	49.1	49.3	49.6	50.1	50.7	51.3	51.6
60%	51.3	51.6	51.3	50.1	49.1	48.7	48.9	49.3	49.8	50.3	50.7	51.1
70%	51.1	51.4	51.0	49.8	48.9	48.4	48.7	49.0	49.4	50.0	50.5	50.8
80%	50.6	50.9	50.6	49.4	48.5	48.0	47.9	48.4	49.1	49.5	50.0	50.4
90%	49.8	50.0	50.1	49.1	47.6	47.1	47.2	47.5	48.0	48.6	49.1	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.4	49.4	49.0	49.2	49.7	50.2	50.9	51.8	52.2
Water Year Types[c]												
Wet (23%)	48.9	49.0	48.5	49.5	48.2	47.9	48.0	48.3	48.7	49.1	49.6	50.0
Above Normal (24%)	53.1	52.8	51.6	49.9	48.7	48.2	48.4	48.8	49.4	50.0	50.8	51.4
Below Normal (10%)	51.5	51.6	51.1	50.4	49.4	49.0	49.2	49.6	50.1	50.6	51.1	51.6
Dry (16%)	51.5	51.7	51.4	50.6	49.9	49.6	49.8	50.2	50.8	51.3	51.9	52.5
Critical (27%)	53.6	53.4	52.4	51.4	50.7	50.2	50.6	51.4	52.2	53.2	54.8	55.0

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	56.0	53.6	52.1	51.1	50.7	51.0	51.6	52.6	53.7	55.1	57.5
20%	55.6	54.6	52.7	51.5	50.4	49.9	50.2	51.1	51.8	52.5	53.0	54.4
30%	53.4	53.3	52.3	50.9	49.7	49.5	49.9	50.5	51.1	51.8	52.5	53.0
40%	52.9	52.8	51.8	50.6	49.4	49.2	49.7	50.3	50.8	51.4	51.9	52.5
50%	52.4	52.5	51.6	50.2	49.2	49.0	49.3	49.7	50.3	51.1	51.6	52.0
60%	52.0	52.1	51.4	49.9	48.9	48.7	48.9	49.3	49.7	50.4	50.9	51.4
70%	51.4	51.6	51.0	49.6	48.7	48.1	48.4	49.0	49.3	50.0	50.5	51.0
80%	51.1	51.2	50.3	49.2	48.0	47.5	48.0	48.4	48.9	49.6	50.1	50.7
90%	49.9	49.9	49.8	48.3	47.0	46.8	46.9	47.2	47.5	48.5	48.9	49.3
Long Term												
Full Simulation Period[b]	53.4	52.8	51.7	50.2	49.1	48.8	49.2	49.9	50.6	51.3	52.2	53.1
Water Year Types[c]												
Wet (23%)	49.6	49.6	48.7	49.4	48.1	47.9	47.8	48.1	48.5	49.0	49.5	49.9
Above Normal (24%)	53.8	52.7	51.2	49.5	48.2	48.0	48.4	48.9	49.6	50.4	51.4	52.2
Below Normal (10%)	52.6	52.2	51.3	50.2	49.2	48.8	49.1	49.6	50.2	50.9	51.5	52.1
Dry (16%)	52.3	52.4	51.8	50.7	49.8	49.4	49.7	50.3	51.0	51.9	52.9	53.8
Critical (27%)	54.8	53.7	52.5	51.2	50.4	50.0	50.8	52.1	53.1	53.9	54.9	56.8

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**4.1**	**1.3**	0.2	0.0	-0.1	0.0	0.0	0.1	0.5	**0.7**	**1.4**	**3.4**
20%	**1.9**	**0.7**	0.1	0.0	0.0	-0.2	0.0	0.2	0.3	0.5	0.3	**1.3**
30%	**0.6**	0.4	0.0	0.0	-0.2	-0.1	0.0	0.1	0.2	0.4	0.3	0.5
40%	**0.7**	0.5	0.2	-0.1	-0.2	-0.1	0.0	0.1	0.2	0.3	0.2	0.5
50%	**0.6**	**0.6**	0.1	-0.1	-0.2	-0.1	0.0	0.1	0.2	0.4	0.3	0.4
60%	**0.7**	0.5	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.3
70%	0.2	0.2	0.0	-0.2	-0.2	-0.3	-0.3	-0.1	-0.1	0.1	0.0	0.2
80%	0.5	0.3	-0.2	-0.2	-0.5	**-0.5**	0.1	0.0	-0.2	0.1	0.1	0.4
90%	0.1	-0.1	-0.3	**-0.8**	**-0.6**	-0.2	-0.2	-0.3	-0.4	-0.1	-0.2	-0.1
Long Term												
Full Simulation Period[b]	**0.9**	0.4	0.0	-0.2	-0.3	-0.2	0.0	0.2	0.3	0.4	0.4	**0.9**
Water Year Types[c]												
Wet (23%)	**0.7**	**0.6**	0.2	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	0.0
Above Normal (24%)	**0.7**	-0.1	-0.4	-0.4	**-0.5**	-0.2	0.0	0.1	0.2	0.4	**0.6**	**0.8**
Below Normal (10%)	**1.1**	**0.6**	0.2	-0.1	-0.2	-0.2	-0.2	0.0	0.1	0.3	0.4	**0.5**
Dry (16%)	**0.8**	**0.7**	0.4	0.1	-0.1	-0.2	-0.1	0.1	0.2	**0.6**	**1.0**	**1.3**
Critical (27%)	**1.2**	0.2	0.0	-0.2	-0.3	-0.3	0.2	**0.7**	**1.0**	**0.7**	0.2	**1.8**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.5.3 Stanislaus River below New Melones Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	54.7	54.8	53.5	52.1	51.2	50.7	51.0	51.5	52.1	53.0	53.7	54.1
20%	53.8	53.9	52.7	51.5	50.4	50.1	50.2	50.9	51.5	52.0	52.7	53.1
30%	52.8	52.8	52.3	50.9	50.0	49.6	49.9	50.4	50.9	51.4	52.2	52.5
40%	52.3	52.3	51.7	50.7	49.6	49.3	49.7	50.2	50.6	51.1	51.7	52.0
50%	51.8	51.9	51.4	50.3	49.4	49.1	49.3	49.6	50.1	50.7	51.3	51.6
60%	51.3	51.6	51.3	50.1	49.1	48.7	48.9	49.3	49.8	50.3	50.7	51.1
70%	51.1	51.4	51.0	49.8	48.9	48.4	48.7	49.0	49.4	50.0	50.5	50.8
80%	50.6	50.9	50.6	49.4	48.5	48.0	47.9	48.4	49.1	49.5	50.0	50.4
90%	49.8	50.0	50.1	49.1	47.6	47.1	47.2	47.5	48.0	48.6	49.1	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.4	49.4	49.0	49.2	49.7	50.2	50.9	51.8	52.2
Water Year Types[c]												
Wet (23%)	48.9	49.0	48.5	49.5	48.2	47.9	48.0	48.3	48.7	49.1	49.6	50.0
Above Normal (24%)	53.1	52.8	51.6	49.9	48.7	48.2	48.4	48.8	49.4	50.0	50.8	51.4
Below Normal (10%)	51.5	51.6	51.1	50.4	49.4	49.0	49.2	49.6	50.1	50.6	51.1	51.6
Dry (16%)	51.5	51.7	51.4	50.6	49.9	49.6	49.8	50.2	50.8	51.3	51.9	52.5
Critical (27%)	53.6	53.4	52.4	51.4	50.7	50.2	50.6	51.4	52.2	53.2	54.8	55.0

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	55.7	55.3	53.2	52.3	51.1	50.8	51.1	51.6	52.2	53.0	53.7	54.9
20%	53.6	53.7	52.5	51.4	50.4	50.1	50.3	50.9	51.6	52.1	52.6	53.3
30%	52.6	52.7	52.1	51.0	49.9	49.6	50.0	50.4	50.9	51.5	52.0	52.5
40%	52.1	52.3	51.7	50.6	49.5	49.3	49.7	50.2	50.5	51.2	51.6	52.0
50%	51.7	51.9	51.4	50.3	49.5	49.2	49.3	49.6	50.0	50.6	51.1	51.5
60%	51.3	51.6	51.3	50.0	49.1	48.7	49.0	49.3	49.7	50.2	50.7	51.2
70%	51.1	51.3	51.0	49.7	48.8	48.5	48.7	49.1	49.5	49.9	50.4	50.8
80%	50.6	50.8	50.5	49.3	48.4	48.1	48.2	48.5	48.9	49.3	49.7	50.4
90%	49.7	49.9	50.0	48.4	47.3	47.1	47.3	47.6	48.0	48.5	48.9	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.3	49.3	49.0	49.3	49.7	50.3	51.1	51.6	52.1
Water Year Types[c]												
Wet (23%)	48.8	49.0	48.5	49.4	48.3	47.9	48.0	48.3	48.6	49.0	49.5	49.9
Above Normal (24%)	53.4	52.8	51.4	49.7	48.4	48.2	48.5	48.8	49.3	50.0	50.7	51.3
Below Normal (10%)	51.5	51.5	51.0	50.4	49.4	49.0	49.2	49.6	50.1	50.6	51.1	51.5
Dry (16%)	51.4	51.6	51.3	50.5	49.8	49.5	49.8	50.2	50.7	51.3	51.9	52.5
Critical (27%)	53.3	53.3	52.4	51.4	50.7	50.3	50.8	51.5	52.6	53.9	54.4	54.7

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.9**	**0.5**	-0.2	0.2	-0.1	0.1	0.1	0.1	0.1	0.0	0.0	**0.8**
20%	-0.1	-0.2	-0.1	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.2
30%	-0.1	-0.1	-0.2	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	-0.2	0.0
40%	-0.2	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.1	-0.1	-0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.1
60%	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.0	0.0	-0.1	0.0	0.0
70%	-0.1	-0.1	0.0	-0.1	-0.1	0.1	0.1	0.0	0.0	-0.1	-0.1	0.0
80%	0.0	-0.2	0.0	-0.1	-0.1	0.0	0.3	0.1	-0.1	-0.2	-0.3	0.0
90%	-0.2	-0.1	-0.1	**-0.7**	-0.2	0.1	0.1	0.1	0.1	0.0	-0.2	0.0
Long Term												
Full Simulation Period[b]	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.1	0.2	-0.1	-0.1
Water Year Types[c]												
Wet (23%)	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
Above Normal (24%)	0.3	0.0	-0.2	-0.2	-0.3	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0
Below Normal (10%)	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry (16%)	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical (27%)	-0.3	-0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.4	**0.7**	-0.4	-0.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.5.4 Stanislaus River below New Melones Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	54.7	54.8	53.5	52.1	51.2	50.7	51.0	51.5	52.1	53.0	53.7	54.1
20%	53.8	53.9	52.7	51.5	50.4	50.1	50.2	50.9	51.5	52.0	52.7	53.1
30%	52.8	52.8	52.3	50.9	50.0	49.6	49.9	50.4	50.9	51.4	52.2	52.5
40%	52.3	52.3	51.7	50.7	49.6	49.3	49.7	50.2	50.6	51.1	51.7	52.0
50%	51.8	51.9	51.4	50.3	49.4	49.1	49.3	49.6	50.1	50.7	51.3	51.6
60%	51.3	51.6	51.3	50.1	49.1	48.7	48.9	49.3	49.8	50.3	50.7	51.1
70%	51.1	51.4	51.0	49.8	48.9	48.4	48.7	49.0	49.4	50.0	50.5	50.8
80%	50.6	50.9	50.6	49.4	48.5	48.0	47.9	48.4	49.1	49.5	50.0	50.4
90%	49.8	50.0	50.1	49.1	47.6	47.1	47.2	47.5	48.0	48.6	49.1	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.4	49.4	49.0	49.2	49.7	50.2	50.9	51.8	52.2
Water Year Types[c]												
Wet (23%)	48.9	49.0	48.5	49.5	48.2	47.9	48.0	48.3	48.7	49.1	49.6	50.0
Above Normal (24%)	53.1	52.8	51.6	49.9	48.7	48.2	48.4	48.8	49.4	50.0	50.8	51.4
Below Normal (10%)	51.5	51.6	51.1	50.4	49.4	49.0	49.2	49.6	50.1	50.6	51.1	51.6
Dry (16%)	51.5	51.7	51.4	50.6	49.9	49.6	49.8	50.2	50.8	51.3	51.9	52.5
Critical (27%)	53.6	53.4	52.4	51.4	50.7	50.2	50.6	51.4	52.2	53.2	54.8	55.0

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	57.0	53.9	52.0	51.0	50.7	51.2	52.3	53.1	55.4	59.8	63.1
20%	56.7	55.0	52.8	51.4	50.3	50.0	50.4	51.4	52.0	53.4	54.4	55.9
30%	54.4	53.7	52.3	50.9	49.6	49.5	50.0	50.7	51.3	52.2	53.1	53.8
40%	53.2	53.1	51.9	50.4	49.4	49.1	49.8	50.3	50.8	51.5	52.1	52.8
50%	52.5	52.6	51.6	50.2	49.0	49.0	49.3	49.9	50.3	51.2	51.7	52.1
60%	52.1	52.3	51.2	49.7	48.7	48.6	48.9	49.4	49.7	50.4	50.9	51.5
70%	51.5	51.8	51.0	49.4	48.3	48.0	48.5	48.9	49.3	50.0	50.6	51.1
80%	51.1	51.3	50.2	48.9	47.3	47.3	47.6	48.1	48.5	49.5	50.1	50.7
90%	49.9	50.1	49.5	47.8	46.3	46.3	46.7	47.1	47.4	48.4	48.9	49.5
Long Term												
Full Simulation Period[b]	54.0	53.1	51.7	50.0	48.9	48.7	49.2	50.0	50.4	51.7	52.8	53.9
Water Year Types[c]												
Wet (23%)	50.1	49.7	48.7	49.3	47.9	47.7	47.6	48.0	48.4	48.9	49.4	49.9
Above Normal (24%)	54.7	53.3	51.2	49.3	47.9	47.9	48.3	48.9	49.7	50.6	51.7	52.6
Below Normal (10%)	52.9	51.6	50.7	49.7	48.9	48.6	49.1	49.8	50.4	51.2	52.1	52.9
Dry (16%)	53.0	53.0	52.1	50.7	49.7	49.3	49.7	50.6	51.6	52.9	53.1	54.4
Critical (27%)	55.3	54.0	52.4	50.9	50.0	50.0	51.1	52.6	52.0	54.5	56.8	58.5

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**6.0**	**2.2**	0.4	-0.1	-0.1	0.0	0.2	**0.7**	**1.0**	**2.4**	**6.1**	**9.0**
20%	**2.9**	**1.1**	0.1	-0.1	-0.1	-0.1	0.2	0.5	**0.5**	**1.3**	**1.7**	**2.8**
30%	**1.6**	**0.9**	0.0	0.0	-0.3	-0.1	0.1	0.3	0.4	**0.8**	**0.8**	**1.3**
40%	**0.9**	**0.7**	0.2	-0.3	-0.2	-0.1	0.1	0.1	0.2	0.4	0.4	**0.8**
50%	**0.7**	**0.7**	0.2	-0.2	-0.4	-0.1	0.0	0.2	0.1	**0.5**	0.4	0.5
60%	**0.8**	**0.6**	-0.1	-0.4	-0.4	-0.1	0.0	0.1	-0.1	0.1	0.2	0.4
70%	0.4	0.4	0.0	-0.3	**-0.5**	-0.4	-0.1	-0.1	-0.1	0.1	0.1	0.3
80%	0.5	0.4	-0.3	-0.5	**-1.2**	**-0.7**	-0.2	-0.3	**-0.5**	0.0	0.1	0.4
90%	0.1	0.1	**-0.6**	**-1.3**	**-1.2**	**-0.7**	-0.5	-0.4	**-0.5**	-0.1	-0.2	0.1
Long Term												
Full Simulation Period[b]	**1.5**	**0.7**	0.0	-0.4	**-0.5**	-0.3	0.0	0.4	0.1	**0.8**	**1.0**	**1.7**
Water Year Types[c]												
Wet (23%)	**1.2**	**0.7**	0.2	-0.1	-0.3	-0.2	-0.4	-0.3	-0.3	-0.2	-0.1	0.0
Above Normal (24%)	**1.6**	**0.5**	-0.4	**-0.7**	**-0.8**	-0.3	-0.1	0.1	0.3	**0.6**	**1.0**	**1.2**
Below Normal (10%)	**1.4**	0.0	-0.4	**-0.7**	**-0.5**	-0.4	-0.1	0.1	0.3	**0.6**	**1.0**	**1.3**
Dry (16%)	**1.5**	**1.3**	**0.7**	0.1	-0.2	-0.3	-0.1	0.4	**0.8**	**1.6**	**1.2**	**2.0**
Critical (27%)	**1.7**	**0.6**	0.0	**-0.6**	**-0.7**	-0.3	**0.6**	**1.2**	-0.1	**1.3**	**2.0**	**3.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.6 Stanislaus River below Tulloch Reservoir Temperature

Table 5C.3.2.6.1 Stanislaus River below Tulloch Reservoir, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.5	59.0	54.8	50.7	50.2	51.2	52.6	53.6	54.7	56.5	57.4	59.2
20%	57.4	56.6	53.3	50.3	49.5	50.6	52.1	53.0	54.1	55.0	55.7	56.7
30%	55.6	55.1	52.8	49.6	48.8	50.2	51.7	52.6	53.4	54.3	55.0	55.6
40%	55.1	54.6	52.0	49.1	48.5	49.8	51.3	52.4	52.9	53.9	54.5	55.0
50%	54.5	54.1	51.7	48.7	48.0	49.6	51.0	52.1	52.6	53.7	54.1	54.5
60%	54.1	53.9	51.4	48.3	47.8	49.3	50.6	51.6	52.2	52.8	53.5	54.0
70%	53.6	53.2	50.9	47.8	47.5	48.9	50.1	51.3	51.8	52.4	53.2	53.5
80%	53.2	52.6	50.4	47.1	46.7	48.4	49.7	51.0	51.4	51.8	52.8	53.1
90%	52.0	51.8	49.9	46.3	45.8	47.5	48.8	50.2	50.3	50.8	51.5	51.8
Long Term												
Full Simulation Period[b]	55.6	54.7	51.9	48.6	48.1	49.5	50.9	52.1	52.8	53.7	54.6	55.4
Water Year Types[c]												
Wet (23%)	51.5	51.0	48.7	47.6	47.1	48.8	49.6	50.9	51.0	51.5	52.2	52.4
Above Normal (24%)	56.3	54.9	51.5	48.1	47.4	48.7	50.1	51.4	51.9	52.7	53.7	54.5
Below Normal (10%)	54.6	53.8	51.0	48.3	48.1	49.4	51.0	51.7	52.2	53.3	54.0	54.4
Dry (16%)	54.5	54.1	51.9	49.0	48.6	50.0	51.6	52.3	53.2	54.3	55.2	56.0
Critical (27%)	57.0	55.8	53.0	49.6	49.2	50.7	52.3	53.7	55.1	56.5	57.2	58.7

Revised Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.4	54.4	50.7	50.3	51.4	52.7	53.5	54.5	55.7	56.5	57.2
20%	56.0	55.9	53.4	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.2	54.7	52.9	49.6	48.9	50.3	51.7	52.5	53.2	53.9	54.8	55.1
40%	54.7	54.4	51.9	49.1	48.7	49.9	51.3	52.3	53.0	53.7	54.2	54.6
50%	54.4	53.9	51.6	48.9	48.3	49.7	51.1	52.1	52.6	53.2	53.9	54.2
60%	53.9	53.4	51.4	48.4	47.9	49.4	50.8	51.7	52.2	52.7	53.4	53.6
70%	53.5	53.0	51.0	48.0	47.7	49.1	50.3	51.6	52.0	52.5	53.1	53.4
80%	53.1	52.7	50.6	47.5	47.3	48.6	49.9	51.0	51.5	51.8	52.6	52.9
90%	52.1	51.9	49.7	47.0	46.0	47.9	49.1	50.3	50.7	51.1	51.8	51.7
Long Term												
Full Simulation Period[b]	54.9	54.5	52.0	48.7	48.3	49.7	51.0	52.0	52.7	53.4	54.3	54.7
Water Year Types[c]												
Wet (23%)	51.1	50.8	48.6	47.6	47.6	48.8	49.8	51.0	51.4	51.6	52.3	52.4
Above Normal (24%)	55.4	55.0	52.0	48.5	47.7	49.0	50.3	51.4	51.8	52.4	53.3	53.8
Below Normal (10%)	54.0	53.4	50.9	48.3	48.3	49.5	51.0	51.7	52.2	53.2	53.7	54.0
Dry (16%)	54.0	53.7	51.6	48.9	48.6	50.1	51.5	52.3	53.1	53.9	54.5	54.9
Critical (27%)	56.1	55.6	53.1	49.7	49.3	50.9	52.2	53.3	54.5	55.5	57.0	57.5

Revised Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-2.7**	**-1.6**	-0.3	0.0	0.1	0.2	0.1	-0.1	-0.2	**-0.8**	**-0.9**	**-2.0**
20%	**-1.3**	**-0.7**	0.1	-0.3	0.1	0.2	-0.1	-0.1	-0.3	-0.3	-0.4	**-1.0**
30%	-0.5	-0.4	0.0	0.0	0.1	0.1	-0.1	-0.1	-0.2	-0.3	-0.3	-0.5
40%	-0.4	-0.2	-0.1	0.1	0.2	0.1	0.0	-0.1	0.1	-0.2	-0.3	-0.4
50%	-0.2	-0.2	-0.1	0.1	0.3	0.1	0.1	0.0	0.0	-0.5	-0.2	-0.3
60%	-0.2	-0.4	0.0	0.2	0.1	0.1	0.2	0.0	-0.1	-0.1	-0.1	-0.3
70%	-0.1	-0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.2	0.0	-0.1	-0.1
80%	-0.1	0.1	0.1	0.3	**0.5**	0.2	0.2	0.0	0.1	0.0	-0.2	-0.1
90%	0.0	0.1	-0.2	**0.7**	0.2	0.4	0.3	0.1	0.4	0.3	0.3	-0.1
Long Term												
Full Simulation Period[b]	**-0.7**	-0.2	0.1	0.1	0.2	0.1	0.1	-0.1	-0.1	-0.4	-0.3	**-0.7**
Water Year Types[c]												
Wet (23%)	-0.4	-0.3	-0.1	0.1	0.5	0.0	0.3	0.1	0.3	0.1	0.1	0.0
Above Normal (24%)	**-0.8**	0.0	**0.5**	0.4	0.3	0.3	0.1	0.0	-0.1	-0.3	-0.5	**-0.7**
Below Normal (10%)	**-0.6**	-0.4	-0.1	0.0	0.2	0.1	0.0	0.1	0.0	-0.1	-0.3	-0.4
Dry (16%)	**-0.5**	-0.4	-0.2	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.4	**-0.8**	**-1.1**
Critical (27%)	**-1.0**	-0.2	0.0	0.1	0.1	0.2	-0.1	-0.5	**-0.6**	**-0.9**	-0.2	**-1.3**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.6.2 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.4	54.4	50.7	50.3	51.4	52.7	53.5	54.5	55.7	56.5	57.2
20%	56.0	55.9	53.4	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.2	54.7	52.9	49.6	48.9	50.3	51.7	52.5	53.2	53.9	54.8	55.1
40%	54.7	54.4	51.9	49.1	48.7	49.9	51.3	52.3	53.0	53.7	54.2	54.6
50%	54.4	53.9	51.6	48.9	48.3	49.7	51.1	52.1	52.6	53.2	53.9	54.2
60%	53.9	53.4	51.4	48.4	47.9	49.4	50.8	51.7	52.2	52.7	53.4	53.6
70%	53.5	53.0	51.0	48.0	47.7	49.1	50.3	51.6	52.0	52.5	53.1	53.4
80%	53.1	52.7	50.6	47.5	47.3	48.6	49.9	51.0	51.5	51.8	52.6	52.9
90%	52.1	51.9	49.7	47.0	46.0	47.9	49.1	50.3	50.7	51.1	51.8	51.7
Long Term												
Full Simulation Period[b]	54.9	54.5	52.0	48.7	48.3	49.7	51.0	52.0	52.7	53.4	54.3	54.7
Water Year Types[c]												
Wet (23%)	51.1	50.8	48.6	47.6	47.6	48.8	49.8	51.0	51.4	51.6	52.3	52.4
Above Normal (24%)	55.4	55.0	52.0	48.5	47.7	49.0	50.3	51.4	51.8	52.4	53.3	53.8
Below Normal (10%)	54.0	53.4	50.9	48.3	48.3	49.5	51.0	51.7	52.2	53.2	53.7	54.0
Dry (16%)	54.0	53.7	51.6	48.9	48.6	50.1	51.5	52.3	53.1	53.9	54.5	54.9
Critical (27%)	56.1	55.6	53.1	49.7	49.3	50.9	52.2	53.3	54.5	55.5	57.0	57.5

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.5	59.0	54.8	50.7	50.2	51.2	52.6	53.6	54.7	56.5	57.4	59.2
20%	57.4	56.6	53.3	50.3	49.5	50.6	52.1	53.0	54.1	55.0	55.7	56.7
30%	55.6	55.1	52.8	49.6	48.8	50.2	51.7	52.6	53.4	54.3	55.0	55.6
40%	55.1	54.6	52.0	49.1	48.5	49.8	51.3	52.4	52.9	53.9	54.5	55.0
50%	54.5	54.1	51.7	48.7	48.0	49.6	51.0	52.1	52.6	53.7	54.1	54.5
60%	54.1	53.9	51.4	48.3	47.8	49.3	50.6	51.6	52.2	52.8	53.5	54.0
70%	53.6	53.2	50.9	47.8	47.5	48.9	50.1	51.3	51.8	52.4	53.2	53.5
80%	53.2	52.6	50.4	47.1	46.7	48.4	49.7	51.0	51.4	51.8	52.8	53.1
90%	52.0	51.8	49.9	46.3	45.8	47.5	48.8	50.2	50.3	50.8	51.5	51.8
Long Term												
Full Simulation Period[b]	55.6	54.7	51.9	48.6	48.1	49.5	50.9	52.1	52.8	53.7	54.6	55.4
Water Year Types[c]												
Wet (23%)	51.5	51.0	48.7	47.6	47.1	48.8	49.6	50.9	51.0	51.5	52.2	52.4
Above Normal (24%)	56.3	54.9	51.5	48.1	47.4	48.7	50.1	51.4	51.9	52.7	53.7	54.5
Below Normal (10%)	54.6	53.8	51.0	48.3	48.1	49.4	51.0	51.7	52.2	53.3	54.0	54.4
Dry (16%)	54.5	54.1	51.9	49.0	48.6	50.0	51.6	52.3	53.2	54.3	55.2	56.0
Critical (27%)	57.0	55.8	53.0	49.6	49.2	50.7	52.3	53.7	55.1	56.5	57.2	58.7

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.7**	**1.6**	0.3	0.0	-0.1	-0.2	-0.1	0.1	0.2	**0.8**	**0.9**	**2.0**
20%	**1.3**	**0.7**	-0.1	0.3	-0.1	-0.2	0.1	0.1	0.3	0.3	0.4	**1.0**
30%	0.5	0.4	0.0	0.0	-0.1	-0.1	0.1	0.1	0.2	0.3	0.3	0.5
40%	0.4	0.2	0.1	-0.1	-0.2	-0.1	0.0	0.1	-0.1	0.2	0.3	0.4
50%	0.2	0.2	0.1	-0.1	-0.3	-0.1	-0.1	0.0	0.0	0.5	0.2	0.3
60%	0.2	0.4	0.0	-0.2	-0.1	-0.1	-0.2	0.0	0.1	0.1	0.1	0.3
70%	0.1	0.2	-0.1	-0.2	-0.1	-0.1	-0.2	-0.3	-0.2	0.0	0.1	0.1
80%	0.1	-0.1	-0.1	-0.3	**-0.5**	-0.2	-0.2	0.0	-0.1	0.0	0.2	0.1
90%	0.0	-0.1	0.2	**-0.7**	-0.2	-0.4	-0.3	-0.1	-0.4	-0.3	-0.3	0.1
Long Term												
Full Simulation Period[b]	**0.7**	0.2	-0.1	-0.1	-0.2	-0.1	-0.1	0.1	0.1	0.4	0.3	**0.7**
Water Year Types[c]												
Wet (23%)	0.4	0.3	0.1	-0.1	-0.5	0.0	-0.3	-0.1	-0.3	-0.1	-0.1	0.0
Above Normal (24%)	**0.8**	0.0	**-0.5**	-0.4	-0.3	-0.3	-0.1	0.0	0.1	0.3	0.5	**0.7**
Below Normal (10%)	**0.6**	0.4	0.1	0.0	-0.2	-0.1	0.0	-0.1	0.0	0.1	0.3	0.4
Dry (16%)	**0.5**	0.4	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.4	**0.8**	**1.1**
Critical (27%)	**1.0**	0.2	0.0	-0.1	-0.1	-0.2	0.1	0.5	**0.6**	**0.9**	0.2	**1.3**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.6.3 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.4	54.4	50.7	50.3	51.4	52.7	53.5	54.5	55.7	56.5	57.2
20%	56.0	55.9	53.4	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.2	54.7	52.9	49.6	48.9	50.3	51.7	52.5	53.2	53.9	54.8	55.1
40%	54.7	54.4	51.9	49.1	48.7	49.9	51.3	52.3	53.0	53.7	54.2	54.6
50%	54.4	53.9	51.6	48.9	48.3	49.7	51.1	52.1	52.6	53.2	53.9	54.2
60%	53.9	53.4	51.4	48.4	47.9	49.4	50.8	51.7	52.2	52.7	53.4	53.6
70%	53.5	53.0	51.0	48.0	47.7	49.1	50.3	51.6	52.0	52.5	53.1	53.4
80%	53.1	52.7	50.6	47.5	47.3	48.6	49.9	51.0	51.5	51.8	52.6	52.9
90%	52.1	51.9	49.7	47.0	46.0	47.9	49.1	50.3	50.7	51.1	51.8	51.7
Long Term												
Full Simulation Period[b]	54.9	54.5	52.0	48.7	48.3	49.7	51.0	52.0	52.7	53.4	54.3	54.7
Water Year Types[c]												
Wet (23%)	51.1	50.8	48.6	47.6	47.6	48.8	49.8	51.0	51.4	51.6	52.3	52.4
Above Normal (24%)	55.4	55.0	52.0	48.5	47.7	49.0	50.3	51.4	51.8	52.4	53.3	53.8
Below Normal (10%)	54.0	53.4	50.9	48.3	48.3	49.5	51.0	51.7	52.2	53.2	53.7	54.0
Dry (16%)	54.0	53.7	51.6	48.9	48.6	50.1	51.5	52.3	53.1	53.9	54.5	54.9
Critical (27%)	56.1	55.6	53.1	49.7	49.3	50.9	52.2	53.3	54.5	55.5	57.0	57.5

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.5	54.3	50.8	50.3	51.3	52.7	53.5	54.5	55.7	56.4	57.3
20%	56.4	55.9	53.5	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.1	54.5	52.8	49.5	49.1	50.3	51.5	52.4	53.2	54.0	54.7	55.1
40%	54.6	54.1	51.8	49.0	48.7	49.9	51.4	52.2	52.8	53.6	54.2	54.5
50%	54.2	53.7	51.5	48.7	48.2	49.7	51.0	51.9	52.5	53.3	53.8	54.1
60%	53.7	53.4	51.3	48.5	47.9	49.5	50.8	51.6	52.1	52.9	53.3	53.6
70%	53.5	53.0	50.9	48.0	47.6	49.0	50.4	51.4	51.7	52.6	53.0	53.2
80%	52.9	52.7	50.5	47.5	47.2	48.6	49.9	50.9	51.2	52.1	52.5	52.8
90%	51.9	51.8	49.6	46.8	46.2	47.8	49.2	50.1	50.7	51.3	51.7	51.7
Long Term												
Full Simulation Period[b]	54.8	54.3	51.8	48.6	48.3	49.6	51.0	51.9	52.6	53.6	54.3	54.5
Water Year Types[c]												
Wet (23%)	51.0	50.7	48.5	47.6	47.7	48.8	49.8	50.8	51.3	51.8	52.2	52.3
Above Normal (24%)	55.6	55.0	51.8	48.5	47.6	48.9	50.3	51.2	51.6	52.6	53.3	53.8
Below Normal (10%)	53.9	53.3	50.8	48.5	48.3	49.5	51.0	51.6	52.3	53.2	53.7	54.0
Dry (16%)	53.8	53.5	51.5	48.9	48.6	50.0	51.5	52.2	53.0	53.9	54.4	54.9
Critical (27%)	55.8	55.3	52.9	49.6	49.2	50.9	52.3	53.3	54.5	56.1	56.9	57.2

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.0	0.1	-0.2	0.1	0.0	-0.1	0.0	0.0	0.1	0.0	-0.1	0.0
20%	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
30%	-0.1	-0.2	-0.1	-0.1	0.2	0.0	-0.1	-0.1	-0.1	0.1	0.0	0.0
40%	-0.1	-0.3	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	-0.1
50%	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.1	-0.2
60%	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.2	-0.1	0.0
70%	0.0	0.0	-0.2	0.0	-0.1	-0.1	0.1	-0.1	-0.3	0.2	0.0	-0.2
80%	-0.2	0.0	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.2	0.3	-0.1	-0.2
90%	-0.1	-0.1	-0.1	-0.2	0.2	-0.1	0.1	-0.2	0.0	0.2	-0.1	-0.1
Long Term												
Full Simulation Period[b]	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.3	0.0	-0.1
Water Year Types[c]												
Wet (23%)	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.0	-0.2	-0.1	0.2	0.0	-0.1
Above Normal (24%)	0.2	0.0	-0.2	-0.1	0.0	-0.1	0.0	-0.1	-0.2	0.2	0.0	0.0
Below Normal (10%)	-0.1	-0.1	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
Dry (16%)	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0
Critical (27%)	-0.3	-0.2	-0.2	-0.1	-0.1	0.0	0.1	0.1	0.1	**0.6**	0.0	-0.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.6.4 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.4	54.4	50.7	50.3	51.4	52.7	53.5	54.5	55.7	56.5	57.2
20%	56.0	55.9	53.4	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.2	54.7	52.9	49.6	48.9	50.3	51.7	52.5	53.2	53.9	54.8	55.1
40%	54.7	54.4	51.9	49.1	48.7	49.9	51.3	52.3	53.0	53.7	54.2	54.6
50%	54.4	53.9	51.6	48.9	48.3	49.7	51.1	52.1	52.6	53.2	53.9	54.2
60%	53.9	53.4	51.4	48.4	47.9	49.4	50.8	51.7	52.2	52.7	53.4	53.6
70%	53.5	53.0	51.0	48.0	47.7	49.1	50.3	51.6	52.0	52.5	53.1	53.4
80%	53.1	52.7	50.6	47.5	47.3	48.6	49.9	51.0	51.5	51.8	52.6	52.9
90%	52.1	51.9	49.7	47.0	46.0	47.9	49.1	50.3	50.7	51.1	51.8	51.7
Long Term												
Full Simulation Period[b]	54.9	54.5	52.0	48.7	48.3	49.7	51.0	52.0	52.7	53.4	54.3	54.7
Water Year Types[c]												
Wet (23%)	51.1	50.8	48.6	47.6	47.6	48.8	49.8	51.0	51.4	51.6	52.3	52.4
Above Normal (24%)	55.4	55.0	52.0	48.5	47.7	49.0	50.3	51.4	51.8	52.4	53.3	53.8
Below Normal (10%)	54.0	53.4	50.9	48.3	48.3	49.5	51.0	51.7	52.2	53.2	53.7	54.0
Dry (16%)	54.0	53.7	51.6	48.9	48.6	50.1	51.5	52.3	53.1	53.9	54.5	54.9
Critical (27%)	56.1	55.6	53.1	49.7	49.3	50.9	52.2	53.3	54.5	55.5	57.0	57.5

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.5	60.2	55.1	51.0	50.0	51.1	52.9	53.9	55.2	57.1	60.8	63.2
20%	58.4	57.9	53.6	50.2	49.5	50.6	52.2	53.2	54.3	55.4	56.8	57.9
30%	56.4	55.7	52.7	49.4	48.8	50.0	51.8	52.6	53.4	54.7	55.5	56.1
40%	55.3	54.8	52.1	49.0	48.4	49.7	51.6	52.4	52.9	54.0	54.9	55.2
50%	54.7	54.2	51.8	48.7	48.0	49.5	51.0	52.2	52.6	53.7	54.2	54.6
60%	54.4	53.9	51.5	48.3	47.7	49.2	50.6	51.8	52.2	52.8	53.5	54.0
70%	53.7	53.4	50.9	47.9	47.2	48.8	50.1	51.4	51.7	52.4	53.2	53.6
80%	53.3	52.7	50.4	47.1	46.7	48.1	49.6	50.8	51.3	51.9	52.8	53.1
90%	52.1	51.8	49.8	45.9	45.6	47.4	48.7	50.1	50.1	50.7	51.4	52.0
Long Term												
Full Simulation Period[b]	56.2	55.1	52.0	48.6	48.0	49.4	50.9	52.2	52.6	53.9	55.1	56.0
Water Year Types[c]												
Wet (23%)	52.0	51.3	48.8	47.6	47.0	48.7	49.5	50.8	50.9	51.4	52.1	52.4
Above Normal (24%)	57.2	55.5	51.5	48.1	47.2	48.6	50.1	51.5	51.9	52.8	54.0	54.9
Below Normal (10%)	55.4	53.7	50.9	48.1	48.0	49.2	51.0	51.8	52.4	53.6	54.5	55.1
Dry (16%)	55.1	54.7	52.2	49.2	48.7	50.0	51.7	52.6	53.4	55.0	55.7	56.5
Critical (27%)	57.4	56.3	53.1	49.6	49.1	50.6	52.6	54.1	54.5	56.5	58.5	60.3

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**6.7**	**2.8**	**0.7**	0.3	-0.3	-0.3	0.2	0.4	**0.8**	**1.4**	**4.3**	**6.0**
20%	**2.4**	**2.1**	0.2	0.2	-0.2	-0.1	0.2	0.4	0.4	**0.6**	**1.6**	**2.2**
30%	**1.2**	**1.0**	-0.1	-0.2	-0.2	-0.3	0.2	0.2	0.2	**0.8**	**0.8**	**1.0**
40%	**0.5**	0.4	0.2	-0.1	-0.3	-0.2	0.2	0.2	0.0	0.3	**0.6**	**0.6**
50%	0.4	0.3	0.2	-0.2	-0.3	-0.2	-0.1	0.2	0.0	0.5	0.3	0.3
60%	0.5	0.5	0.1	-0.1	-0.2	-0.3	-0.2	0.2	0.0	0.1	0.1	0.4
70%	0.2	0.3	-0.1	-0.1	-0.4	-0.3	-0.2	-0.2	-0.3	0.0	0.1	0.3
80%	0.2	0.0	-0.2	-0.3	**-0.6**	-0.5	-0.3	-0.3	-0.1	0.1	0.2	0.2
90%	0.0	-0.1	0.1	**-1.0**	-0.4	-0.5	-0.4	-0.2	**-0.6**	-0.4	-0.4	0.3
Long Term												
Full Simulation Period[b]	**1.3**	**0.6**	0.0	-0.1	-0.3	-0.3	0.0	0.3	0.0	**0.5**	**0.8**	**1.4**
Water Year Types[c]												
Wet (23%)	**0.9**	0.5	0.2	0.0	**-0.5**	-0.1	-0.3	-0.2	-0.5	-0.2	-0.1	0.0
Above Normal (24%)	**1.8**	0.5	**-0.5**	-0.4	-0.5	-0.5	-0.2	0.1	0.0	0.5	**0.7**	**1.0**
Below Normal (10%)	**1.4**	0.3	0.1	-0.1	-0.3	-0.2	0.0	0.1	0.1	0.4	**0.7**	**1.1**
Dry (16%)	**1.1**	**1.0**	**0.6**	0.2	0.1	-0.1	0.1	0.3	0.4	**1.1**	**1.2**	**1.6**
Critical (27%)	**1.4**	**0.8**	0.1	-0.1	-0.2	-0.3	0.3	**0.8**	0.0	**0.9**	**1.5**	**2.8**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.7 Stanislaus River below Goodwin Dam Temperature

Table 5C.3.2.7.1 Stanislaus River below Goodwin Dam, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	59.2	54.6	51.1	50.8	51.9	53.1	54.1	55.6	57.6	58.3	60.1
20%	58.0	56.6	53.3	50.3	50.2	51.4	52.4	53.6	54.8	55.9	56.5	57.4
30%	56.1	55.5	52.5	49.7	49.5	50.8	52.1	53.0	54.0	55.1	55.8	56.4
40%	55.5	54.8	51.9	49.3	48.9	50.6	51.7	52.8	53.7	54.6	55.3	55.7
50%	55.0	54.2	51.6	48.9	48.8	50.3	51.4	52.6	53.3	54.4	54.8	55.3
60%	54.5	54.0	51.3	48.4	48.4	50.0	51.0	52.1	52.8	53.5	54.2	54.6
70%	54.0	53.5	51.0	48.0	48.0	49.8	50.6	51.8	52.5	53.2	53.9	54.2
80%	53.5	52.9	50.4	47.3	47.4	49.0	50.1	51.5	52.0	52.6	53.3	53.8
90%	52.4	52.1	49.9	46.5	46.7	48.3	49.2	50.6	50.8	51.5	52.2	52.6
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.8	48.7	50.2	51.3	52.5	53.5	54.6	55.3	56.1
Water Year Types[c]												
Wet (23%)	51.9	51.3	48.8	47.9	47.6	49.1	50.0	51.3	51.6	52.2	52.8	53.0
Above Normal (24%)	56.7	55.2	51.5	48.4	48.0	49.6	50.6	51.9	52.5	53.5	54.5	55.2
Below Normal (10%)	55.0	54.1	51.0	48.4	48.7	50.0	51.3	52.1	52.9	54.1	54.7	55.1
Dry (16%)	54.9	54.3	51.8	49.2	49.2	50.9	51.9	52.8	53.9	55.1	56.0	56.7
Critical (27%)	57.4	56.0	52.9	49.7	49.9	51.5	52.7	54.3	56.0	57.5	58.2	59.5

Revised Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	57.3	54.1	50.9	50.8	52.1	53.2	54.1	55.4	56.6	57.4	57.9
20%	57.0	56.0	53.4	50.1	50.2	51.4	52.4	53.5	54.6	55.6	56.0	56.7
30%	56.2	54.9	52.9	49.8	49.5	50.9	52.1	53.0	53.9	54.8	55.4	55.8
40%	55.5	54.6	51.9	49.2	49.1	50.7	51.7	52.7	53.6	54.5	55.0	55.3
50%	55.0	54.0	51.6	49.0	48.8	50.5	51.5	52.6	53.1	54.0	54.7	55.0
60%	54.6	53.8	51.4	48.5	48.5	50.2	51.2	52.1	52.8	53.4	54.1	54.4
70%	54.2	53.3	51.0	48.1	48.3	49.9	50.8	52.0	52.5	53.2	53.8	54.0
80%	53.6	52.9	50.6	47.6	47.8	49.2	50.3	51.6	52.0	52.5	53.3	53.5
90%	52.7	52.1	49.8	47.1	46.9	48.6	49.6	50.7	51.3	51.7	52.4	52.4
Long Term												
Full Simulation Period[b]	55.6	54.6	51.9	48.9	48.9	50.4	51.4	52.5	53.3	54.1	55.0	55.4
Water Year Types[c]												
Wet (23%)	51.7	51.0	48.6	47.9	48.0	49.4	50.2	51.4	51.9	52.3	52.9	53.0
Above Normal (24%)	56.2	55.1	51.9	48.7	48.4	49.9	50.7	51.9	52.4	53.1	54.0	54.5
Below Normal (10%)	54.7	53.6	50.9	48.4	48.8	50.1	51.4	52.2	52.9	53.9	54.4	54.7
Dry (16%)	54.7	53.9	51.6	49.1	49.2	50.9	51.9	52.8	53.8	54.7	55.2	55.6
Critical (27%)	56.8	55.7	52.9	49.8	50.0	51.7	52.7	53.9	55.3	56.4	57.8	58.5

Revised Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-2.0**	**-1.8**	**-0.5**	-0.1	0.0	0.2	0.1	0.0	-0.2	**-1.0**	**-1.0**	**-2.2**
20%	**-1.0**	**-0.6**	0.1	-0.2	0.0	0.0	0.0	-0.2	-0.2	-0.3	**-0.5**	**-0.8**
30%	0.1	**-0.6**	0.3	0.1	0.0	0.1	0.0	-0.1	-0.1	-0.4	-0.4	**-0.5**
40%	0.1	-0.2	-0.1	-0.1	0.1	0.2	0.0	-0.1	-0.1	-0.2	-0.3	-0.4
50%	0.1	-0.2	0.0	0.1	0.0	0.2	0.1	0.0	-0.2	-0.5	-0.2	-0.3
60%	0.1	-0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.0	-0.1	-0.1	-0.2
70%	0.2	-0.2	0.0	0.1	0.3	0.2	0.2	0.2	0.0	0.0	-0.1	-0.2
80%	0.1	0.0	0.2	0.3	0.4	0.2	0.2	0.1	0.0	-0.1	-0.1	-0.3
90%	0.3	0.0	-0.1	**0.6**	0.2	0.3	0.4	0.1	0.5	0.2	0.2	-0.2
Long Term												
Full Simulation Period[b]	-0.4	-0.3	0.0	0.1	0.2	0.2	0.1	-0.1	-0.2	-0.4	-0.4	**-0.6**
Water Year Types[c]												
Wet (23%)	-0.1	-0.3	-0.1	0.0	0.3	0.2	0.3	0.1	0.3	0.0	0.1	0.0
Above Normal (24%)	**-0.5**	0.0	0.5	0.4	0.3	0.4	0.2	0.0	-0.1	-0.3	-0.5	**-0.6**
Below Normal (10%)	-0.3	-0.4	-0.1	0.0	0.1	0.1	0.0	0.1	0.0	-0.2	-0.3	-0.4
Dry (16%)	-0.2	-0.4	-0.2	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.4	**-0.8**	**-1.1**
Critical (27%)	**-0.6**	-0.3	0.0	0.1	0.1	0.2	0.0	-0.4	**-0.7**	**-1.1**	-0.4	**-1.0**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.7.2 Stanislaus River below Goodwin Dam, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	57.3	54.1	50.9	50.8	52.1	53.2	54.1	55.4	56.6	57.4	57.9
20%	57.0	56.0	53.4	50.1	50.2	51.4	52.4	53.5	54.6	55.6	56.0	56.7
30%	56.2	54.9	52.9	49.8	49.5	50.9	52.1	53.0	53.9	54.8	55.4	55.8
40%	55.5	54.6	51.9	49.2	49.1	50.7	51.7	52.7	53.6	54.5	55.0	55.3
50%	55.0	54.0	51.6	49.0	48.8	50.5	51.5	52.6	53.1	54.0	54.7	55.0
60%	54.6	53.8	51.4	48.5	48.5	50.2	51.2	52.1	52.8	53.4	54.1	54.4
70%	54.2	53.3	51.0	48.1	48.3	49.9	50.8	52.0	52.5	53.2	53.8	54.0
80%	53.6	52.9	50.6	47.6	47.8	49.2	50.3	51.6	52.0	52.5	53.3	53.5
90%	52.7	52.1	49.8	47.1	46.9	48.6	49.6	50.7	51.3	51.7	52.4	52.4
Long Term												
Full Simulation Period[b]	55.6	54.6	51.9	48.9	48.9	50.4	51.4	52.5	53.3	54.1	55.0	55.4
Water Year Types[c]												
Wet (23%)	51.7	51.0	48.6	47.9	48.0	49.4	50.2	51.4	51.9	52.3	52.9	53.0
Above Normal (24%)	56.2	55.1	51.9	48.7	48.4	49.9	50.7	51.9	52.4	53.1	54.0	54.5
Below Normal (10%)	54.7	53.6	50.9	48.4	48.8	50.1	51.4	52.2	52.9	53.9	54.4	54.7
Dry (16%)	54.7	53.9	51.6	49.1	49.2	50.9	51.9	52.8	53.8	54.7	55.2	55.6
Critical (27%)	56.8	55.7	52.9	49.8	50.0	51.7	52.7	53.9	55.3	56.4	57.8	58.5

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	59.2	54.6	51.1	50.8	51.9	53.1	54.1	55.6	57.6	58.3	60.1
20%	58.0	56.6	53.3	50.3	50.2	51.4	52.4	53.6	54.8	55.9	56.5	57.4
30%	56.1	55.5	52.5	49.7	49.5	50.8	52.1	53.0	54.0	55.1	55.8	56.4
40%	55.5	54.8	51.9	49.3	48.9	50.6	51.7	52.8	53.7	54.6	55.3	55.7
50%	55.0	54.2	51.6	48.9	48.8	50.3	51.4	52.6	53.3	54.4	54.8	55.3
60%	54.5	54.0	51.3	48.4	48.4	50.0	51.0	52.1	52.8	53.5	54.2	54.6
70%	54.0	53.5	51.0	48.0	48.0	49.8	50.6	51.8	52.5	53.2	53.9	54.2
80%	53.5	52.9	50.4	47.3	47.4	49.0	50.1	51.5	52.0	52.6	53.3	53.8
90%	52.4	52.1	49.9	46.5	46.7	48.3	49.2	50.6	50.8	51.5	52.2	52.6
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.8	48.7	50.2	51.3	52.5	53.5	54.6	55.3	56.1
Water Year Types[c]												
Wet (23%)	51.9	51.3	48.8	47.9	47.6	49.1	50.0	51.3	51.6	52.2	52.8	53.0
Above Normal (24%)	56.7	55.2	51.5	48.4	48.0	49.6	50.6	51.9	52.5	53.5	54.5	55.2
Below Normal (10%)	55.0	54.1	51.0	48.4	48.7	50.0	51.3	52.1	52.9	54.1	54.7	55.1
Dry (16%)	54.9	54.3	51.8	49.2	49.2	50.9	51.9	52.8	53.9	55.1	56.0	56.7
Critical (27%)	57.4	56.0	52.9	49.7	49.9	51.5	52.7	54.3	56.0	57.5	58.2	59.5

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.0**	**1.8**	**0.5**	0.1	0.0	-0.2	-0.1	0.0	0.2	**1.0**	**1.0**	**2.2**
20%	**1.0**	**0.6**	-0.1	0.2	0.0	0.0	0.0	0.2	0.2	0.3	**0.5**	**0.8**
30%	-0.1	**0.6**	-0.3	-0.1	0.0	-0.1	0.0	0.1	0.1	0.4	0.4	**0.5**
40%	-0.1	0.2	0.1	0.1	-0.1	-0.2	0.0	0.1	0.1	0.2	0.3	0.4
50%	-0.1	0.2	0.0	-0.1	0.0	-0.2	-0.1	0.0	0.2	0.5	0.2	0.3
60%	-0.1	0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	0.0	0.1	0.1	0.2
70%	-0.2	0.2	0.0	-0.1	-0.3	-0.2	-0.2	-0.2	0.0	0.0	0.1	0.2
80%	-0.1	0.0	-0.2	-0.3	-0.4	-0.2	-0.2	-0.1	0.0	0.1	0.1	0.3
90%	-0.3	0.0	0.1	**-0.6**	-0.2	-0.3	-0.4	-0.1	-0.5	-0.2	-0.2	0.2
Long Term												
Full Simulation Period[b]	0.4	0.3	0.0	-0.1	-0.2	-0.2	-0.1	0.1	0.2	0.4	0.4	**0.6**
Water Year Types[c]												
Wet (23%)	0.1	0.3	0.1	0.0	-0.3	-0.2	-0.3	-0.1	-0.3	0.0	-0.1	0.0
Above Normal (24%)	**0.5**	0.0	-0.5	-0.4	-0.3	-0.4	-0.2	0.0	0.1	0.3	0.5	**0.6**
Below Normal (10%)	0.3	0.4	0.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.2	0.3	0.4
Dry (16%)	0.2	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.4	**0.8**	**1.1**
Critical (27%)	**0.6**	0.3	0.0	-0.1	-0.1	-0.2	0.0	0.4	**0.7**	**1.1**	0.4	**1.0**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.7.3 Stanislaus River below Goodwin Dam, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	57.3	54.1	50.9	50.8	52.1	53.2	54.1	55.4	56.6	57.4	57.9
20%	57.0	56.0	53.4	50.1	50.2	51.4	52.4	53.5	54.6	55.6	56.0	56.7
30%	56.2	54.9	52.9	49.8	49.5	50.9	52.1	53.0	53.9	54.8	55.4	55.8
40%	55.5	54.6	51.9	49.2	49.1	50.7	51.7	52.7	53.6	54.5	55.0	55.3
50%	55.0	54.0	51.6	49.0	48.8	50.5	51.5	52.6	53.1	54.0	54.7	55.0
60%	54.6	53.8	51.4	48.5	48.5	50.2	51.2	52.1	52.8	53.4	54.1	54.4
70%	54.2	53.3	51.0	48.1	48.3	49.9	50.8	52.0	52.5	53.2	53.8	54.0
80%	53.6	52.9	50.6	47.6	47.8	49.2	50.3	51.6	52.0	52.5	53.3	53.5
90%	52.7	52.1	49.8	47.1	46.9	48.6	49.6	50.7	51.3	51.7	52.4	52.4
Long Term												
Full Simulation Period[b]	55.6	54.6	51.9	48.9	48.9	50.4	51.4	52.5	53.3	54.1	55.0	55.4
Water Year Types[c]												
Wet (23%)	51.7	51.0	48.6	47.9	48.0	49.4	50.2	51.4	51.9	52.3	52.9	53.0
Above Normal (24%)	56.2	55.1	51.9	48.7	48.4	49.9	50.7	51.9	52.4	53.1	54.0	54.5
Below Normal (10%)	54.7	53.6	50.9	48.4	48.8	50.1	51.4	52.2	52.9	53.9	54.4	54.7
Dry (16%)	54.7	53.9	51.6	49.1	49.2	50.9	51.9	52.8	53.8	54.7	55.2	55.6
Critical (27%)	56.8	55.7	52.9	49.8	50.0	51.7	52.7	53.9	55.3	56.4	57.8	58.5

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.5	57.6	54.1	50.9	50.8	52.1	53.1	54.0	55.3	56.7	57.3	58.2
20%	57.0	56.0	53.3	50.1	50.1	51.4	52.4	53.5	54.7	55.6	56.0	56.6
30%	56.0	54.7	52.8	49.7	49.5	50.9	52.0	52.9	53.9	54.8	55.4	55.9
40%	55.2	54.3	51.7	49.1	49.1	50.7	51.7	52.6	53.5	54.4	54.9	55.2
50%	54.8	53.9	51.5	48.9	48.8	50.4	51.4	52.4	53.2	54.0	54.5	54.8
60%	54.5	53.7	51.3	48.6	48.5	50.1	51.2	52.1	52.8	53.6	54.0	54.4
70%	54.1	53.2	50.8	48.1	48.1	49.8	50.8	51.9	52.5	53.3	53.7	53.9
80%	53.4	52.9	50.5	47.7	47.7	49.0	50.3	51.4	52.0	52.9	53.2	53.4
90%	52.6	52.1	49.7	47.1	46.9	48.6	49.6	50.6	51.4	51.9	52.4	52.4
Long Term												
Full Simulation Period[b]	55.5	54.5	51.8	48.8	48.9	50.4	51.4	52.4	53.4	54.4	55.0	55.3
Water Year Types[c]												
Wet (23%)	51.6	50.9	48.6	48.0	48.1	49.3	50.2	51.3	51.9	52.5	52.9	52.9
Above Normal (24%)	56.3	55.2	51.8	48.7	48.3	49.7	50.7	51.7	52.4	53.4	54.0	54.5
Below Normal (10%)	54.6	53.6	50.9	48.6	48.8	50.1	51.3	52.1	53.0	54.0	54.4	54.7
Dry (16%)	54.5	53.8	51.4	49.0	49.2	50.9	51.9	52.7	53.8	54.7	55.2	55.6
Critical (27%)	56.5	55.5	52.8	49.7	49.9	51.6	52.7	53.9	55.4	57.0	57.8	57.9

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.2	0.3	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.1	-0.1	0.3
20%	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0
30%	-0.3	-0.2	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.1
40%	-0.3	-0.2	-0.1	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1
50%	-0.2	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.2	0.1	0.0	-0.1	-0.2
60%	-0.1	-0.1	-0.1	0.1	0.0	-0.1	0.0	-0.1	0.0	0.2	0.0	0.0
70%	-0.1	0.0	-0.2	0.0	-0.2	-0.1	0.0	-0.1	0.0	0.2	-0.1	-0.2
80%	-0.2	0.0	-0.1	0.1	-0.1	-0.2	0.0	-0.1	-0.1	0.4	-0.1	-0.1
90%	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	-0.2	0.1	0.2	0.0	0.0
Long Term												
Full Simulation Period[b]	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.0	0.3	0.0	-0.2
Water Year Types[c]												
Wet (23%)	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.0	-0.2	0.0	0.2	0.0	-0.1
Above Normal (24%)	0.1	0.1	-0.1	-0.1	-0.1	-0.2	0.0	-0.1	0.0	0.3	0.0	0.0
Below Normal (10%)	-0.1	-0.1	0.0	0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0
Dry (16%)	-0.2	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
Critical (27%)	-0.4	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	**0.6**	0.0	**-0.6**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.7.4 Stanislaus River below Goodwin Dam, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	57.3	54.1	50.9	50.8	52.1	53.2	54.1	55.4	56.6	57.4	57.9
20%	57.0	56.0	53.4	50.1	50.2	51.4	52.4	53.5	54.6	55.6	56.0	56.7
30%	56.2	54.9	52.9	49.8	49.5	50.9	52.1	53.0	53.9	54.8	55.4	55.8
40%	55.5	54.6	51.9	49.2	49.1	50.7	51.7	52.7	53.6	54.5	55.0	55.3
50%	55.0	54.0	51.6	49.0	48.8	50.5	51.5	52.6	53.1	54.0	54.7	55.0
60%	54.6	53.8	51.4	48.5	48.5	50.2	51.2	52.1	52.8	53.4	54.1	54.4
70%	54.2	53.3	51.0	48.1	48.3	49.9	50.8	52.0	52.5	53.2	53.8	54.0
80%	53.6	52.9	50.6	47.6	47.8	49.2	50.3	51.6	52.0	52.5	53.3	53.5
90%	52.7	52.1	49.8	47.1	46.9	48.6	49.6	50.7	51.3	51.7	52.4	52.4
Long Term												
Full Simulation Period[b]	55.6	54.6	51.9	48.9	48.9	50.4	51.4	52.5	53.3	54.1	55.0	55.4
Water Year Types[c]												
Wet (23%)	51.7	51.0	48.6	47.9	48.0	49.4	50.2	51.4	51.9	52.3	52.9	53.0
Above Normal (24%)	56.2	55.1	51.9	48.7	48.4	49.9	50.7	51.9	52.4	53.1	54.0	54.5
Below Normal (10%)	54.7	53.6	50.9	48.4	48.8	50.1	51.4	52.2	52.9	53.9	54.4	54.7
Dry (16%)	54.7	53.9	51.6	49.1	49.2	50.9	51.9	52.8	53.8	54.7	55.2	55.6
Critical (27%)	56.8	55.7	52.9	49.8	50.0	51.7	52.7	53.9	55.3	56.4	57.8	58.5

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.8	60.4	54.8	51.2	50.7	51.9	53.2	54.3	56.3	58.3	61.3	64.0
20%	58.8	58.0	53.4	50.3	50.2	51.3	52.5	53.7	55.1	56.6	57.6	58.7
30%	56.7	56.0	52.7	49.6	49.4	50.8	52.2	53.0	54.2	55.6	56.3	56.9
40%	55.7	54.9	52.0	49.1	48.9	50.5	51.9	52.9	53.8	54.7	55.6	55.9
50%	55.2	54.4	51.6	48.9	48.8	50.1	51.4	52.7	53.2	54.5	54.9	55.3
60%	54.8	54.1	51.5	48.4	48.3	49.9	51.0	52.2	52.8	53.5	54.2	54.7
70%	54.2	53.6	50.9	48.0	47.8	49.5	50.6	51.8	52.2	53.2	53.9	54.3
80%	53.6	53.0	50.5	47.3	47.4	48.9	50.0	51.2	52.0	52.6	53.4	53.7
90%	52.5	52.1	49.7	46.2	46.7	48.2	49.1	50.5	50.7	51.5	52.2	52.7
Long Term												
Full Simulation Period[b]	56.6	55.3	52.0	48.8	48.6	50.1	51.3	52.7	53.4	54.8	55.9	56.7
Water Year Types[c]												
Wet (23%)	52.4	51.5	48.9	47.9	47.6	49.1	49.9	51.2	51.5	52.1	52.8	53.1
Above Normal (24%)	57.6	55.7	51.5	48.3	47.9	49.5	50.5	51.9	52.5	53.6	54.7	55.6
Below Normal (10%)	55.8	53.9	50.9	48.3	48.6	49.9	51.3	52.2	53.0	54.3	55.1	55.7
Dry (16%)	55.5	54.9	52.1	49.3	49.3	50.8	52.0	53.0	54.2	55.8	56.4	57.2
Critical (27%)	57.8	56.5	53.0	49.7	49.8	51.3	52.9	54.6	55.6	57.6	59.5	61.0

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**6.0**	**3.1**	**0.7**	0.3	-0.2	-0.2	0.0	0.2	**0.9**	**1.7**	**4.0**	**6.0**
20%	**1.8**	**2.0**	0.0	0.2	0.0	-0.1	0.1	0.3	**0.5**	**1.0**	**1.6**	**2.0**
30%	**0.5**	**1.1**	-0.2	-0.1	-0.1	-0.1	0.1	0.0	0.3	**0.8**	**0.8**	**1.1**
40%	0.2	0.4	0.1	-0.1	-0.1	-0.3	0.1	0.1	0.2	0.2	**0.6**	**0.6**
50%	0.2	0.4	0.1	-0.1	-0.1	-0.4	-0.1	0.1	0.1	**0.5**	0.2	0.3
60%	0.2	0.3	0.0	-0.1	-0.2	-0.3	-0.2	0.0	0.0	0.2	0.1	0.4
70%	0.0	0.4	-0.1	0.0	-0.4	-0.4	-0.2	-0.2	-0.3	0.0	0.2	0.3
80%	0.0	0.1	-0.1	-0.4	-0.4	-0.3	-0.3	-0.3	0.0	0.1	0.2	0.2
90%	-0.2	0.0	-0.1	**-0.9**	-0.2	-0.5	-0.5	-0.2	**-0.6**	-0.2	-0.2	0.3
Long Term												
Full Simulation Period[b]	**1.0**	**0.6**	0.1	-0.1	-0.3	-0.3	-0.1	0.2	0.1	**0.6**	**0.9**	**1.3**
Water Year Types[c]												
Wet (23%)	**0.7**	0.5	0.2	0.0	-0.4	-0.3	-0.3	-0.2	-0.4	-0.2	-0.1	0.1
Above Normal (24%)	**1.4**	**0.6**	-0.4	-0.4	-0.5	-0.5	-0.2	0.0	0.1	0.5	**0.7**	**1.0**
Below Normal (10%)	**1.1**	0.3	0.0	-0.1	-0.2	-0.2	-0.1	0.1	0.1	0.4	**0.7**	**1.0**
Dry (16%)	**0.8**	**1.0**	**0.5**	0.2	0.1	-0.1	0.0	0.2	0.4	**1.1**	**1.2**	**1.5**
Critical (27%)	**1.0**	**0.8**	0.1	-0.1	-0.2	-0.4	0.2	**0.7**	0.3	**1.2**	**1.7**	**2.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.8 Stanislaus River at Orange Blossom Bridge Temperature

Table 5C.3.2.8.1. Stanislaus River at Orange Blossom Bridge, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.6	58.7	53.5	51.3	52.5	55.8	55.3	57.7	63.9	65.6	65.4	64.5
20%	59.3	56.9	52.6	50.8	51.7	55.1	54.8	56.8	62.5	64.6	64.2	63.3
30%	57.6	56.2	52.3	50.1	51.2	54.6	54.1	56.0	61.6	64.1	63.4	62.0
40%	56.8	55.1	51.5	49.6	50.7	54.0	53.6	55.3	60.7	63.7	62.9	61.7
50%	56.4	54.9	51.1	49.1	50.3	53.7	53.1	55.0	59.3	63.2	62.5	61.2
60%	55.9	54.6	50.7	48.8	50.1	53.2	52.7	54.4	56.6	62.6	62.2	60.7
70%	55.2	54.1	50.5	48.4	49.6	52.1	52.2	53.9	55.9	62.1	61.9	60.4
80%	54.9	53.7	50.2	47.9	49.2	51.0	51.9	53.6	55.3	61.5	61.5	59.9
90%	54.0	52.7	49.8	47.1	48.4	49.7	50.8	52.6	54.4	58.6	59.8	58.2
Long Term												
Full Simulation Period[b]	57.2	55.3	51.4	49.2	50.4	53.2	53.2	55.1	59.0	62.9	62.7	61.5
Water Year Types[c]												
Wet (23%)	53.1	51.8	48.6	48.7	49.3	50.2	51.3	53.2	55.2	59.5	59.4	57.8
Above Normal (24%)	57.9	55.5	51.2	49.0	49.9	52.7	52.4	54.5	56.3	61.9	62.2	61.1
Below Normal (10%)	56.2	54.7	50.7	48.9	50.3	53.4	52.9	54.2	58.8	63.3	62.4	61.0
Dry (16%)	56.3	55.0	51.1	49.5	50.9	54.5	54.0	55.4	61.2	64.2	63.5	62.4
Critical (27%)	58.6	56.2	52.1	49.8	51.6	55.2	55.2	57.4	63.4	65.9	65.5	64.6

Revised Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.9	57.4	53.0	51.1	52.6	56.7	56.1	58.0	63.1	65.2	64.6	63.3
20%	61.5	56.4	52.6	50.6	51.7	55.8	55.4	57.4	62.6	64.3	63.6	62.4
30%	61.0	55.5	52.0	50.0	51.2	55.2	54.9	56.5	62.1	63.8	63.0	61.9
40%	59.5	55.0	51.5	49.6	50.8	54.4	54.2	56.0	61.5	63.5	62.7	61.4
50%	59.0	54.6	51.1	49.1	50.5	53.7	53.5	55.5	59.2	63.1	62.4	60.9
60%	57.9	54.3	50.8	49.0	50.0	53.3	53.2	54.8	56.4	62.6	62.1	60.6
70%	56.8	54.0	50.6	48.4	49.8	52.5	52.6	54.3	55.8	62.1	61.8	60.0
80%	56.4	53.5	50.3	48.0	49.3	51.6	51.9	53.8	55.1	61.5	61.5	59.5
90%	55.7	52.8	49.9	47.5	48.4	50.3	51.2	52.9	53.9	58.6	60.4	57.9
Long Term												
Full Simulation Period[b]	59.2	55.1	51.4	49.3	50.5	53.8	53.8	55.5	58.9	62.4	62.3	60.9
Water Year Types[c]												
Wet (23%)	54.9	51.5	48.5	48.7	49.1	51.1	51.6	53.4	54.8	59.2	59.1	57.3
Above Normal (24%)	59.8	55.3	51.4	49.3	50.3	53.2	52.9	54.9	56.1	61.7	62.0	60.7
Below Normal (10%)	58.0	54.2	50.6	48.9	50.1	53.1	53.2	54.7	59.4	63.3	62.2	60.7
Dry (16%)	58.4	54.6	51.0	49.4	50.7	54.9	54.7	55.9	61.7	64.0	63.0	61.6
Critical (27%)	60.6	56.0	52.1	49.8	51.9	56.4	56.0	57.8	63.0	64.7	64.8	64.0

Revised Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**1.3**	**-1.3**	-0.5	-0.2	0.1	**1.0**	**0.9**	0.3	**-0.8**	-0.3	**-0.8**	**-1.2**
20%	**2.1**	**-0.5**	0.0	-0.1	0.0	**0.8**	**0.6**	**0.5**	0.1	-0.3	**-0.6**	**-0.8**
30%	**3.5**	**-0.6**	-0.4	-0.1	0.0	**0.6**	**0.8**	**0.5**	**0.5**	-0.3	-0.4	-0.2
40%	**2.7**	0.0	0.1	0.0	0.1	0.4	**0.5**	**0.7**	**0.8**	-0.2	-0.2	-0.3
50%	**2.6**	-0.3	0.0	0.0	0.1	0.0	0.4	**0.5**	0.0	-0.1	-0.1	-0.3
60%	**2.1**	-0.3	0.1	0.2	0.0	0.0	**0.5**	0.4	-0.3	-0.1	-0.1	-0.2
70%	**1.6**	-0.1	0.1	0.1	0.1	0.4	0.4	0.4	-0.1	0.0	0.0	-0.4
80%	**1.5**	-0.1	0.1	0.2	0.1	**0.7**	0.1	0.2	-0.2	-0.1	0.0	-0.4
90%	**1.7**	0.1	0.1	0.4	0.1	**0.7**	0.4	0.3	**-0.5**	0.0	**0.5**	-0.2
Long Term												
Full Simulation Period[b]	**1.9**	-0.3	0.0	0.1	0.1	**0.7**	**0.6**	0.4	-0.1	-0.5	-0.4	**-0.5**
Water Year Types[c]												
Wet (23%)	**1.8**	-0.3	-0.1	0.0	-0.2	**0.9**	0.3	0.2	-0.4	-0.3	-0.3	**-0.5**
Above Normal (24%)	**1.9**	-0.1	0.2	0.3	0.4	0.5	**0.5**	0.3	-0.2	-0.2	-0.2	-0.4
Below Normal (10%)	**1.8**	-0.5	-0.1	0.0	-0.2	-0.3	0.4	0.5	**0.6**	0.0	-0.1	-0.4
Dry (16%)	**2.1**	-0.4	-0.1	-0.1	-0.2	0.3	**0.8**	**0.5**	0.5	-0.2	**-0.6**	**-0.7**
Critical (27%)	**2.0**	-0.2	0.0	0.0	0.2	**1.2**	**0.8**	0.3	-0.4	**-1.2**	**-0.7**	**-0.6**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.8.2 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.9	57.4	53.0	51.1	52.6	56.7	56.1	58.0	63.1	65.2	64.6	63.3
20%	61.5	56.4	52.6	50.6	51.7	55.8	55.4	57.4	62.6	64.3	63.6	62.4
30%	61.0	55.5	52.0	50.0	51.2	55.2	54.9	56.5	62.1	63.8	63.0	61.9
40%	59.5	55.0	51.5	49.6	50.8	54.4	54.2	56.0	61.5	63.5	62.7	61.4
50%	59.0	54.6	51.1	49.1	50.5	53.7	53.5	55.5	59.2	63.1	62.4	60.9
60%	57.9	54.3	50.8	49.0	50.0	53.3	53.2	54.8	56.4	62.6	62.1	60.6
70%	56.8	54.0	50.6	48.4	49.8	52.5	52.6	54.3	55.8	62.1	61.8	60.0
80%	56.4	53.5	50.3	48.0	49.3	51.6	51.9	53.8	55.1	61.5	61.5	59.5
90%	55.7	52.8	49.9	47.5	48.4	50.3	51.2	52.9	53.9	58.6	60.4	57.9
Long Term												
Full Simulation Period[b]	59.2	55.1	51.4	49.3	50.5	53.8	53.8	55.5	58.9	62.4	62.3	60.9
Water Year Types[c]												
Wet (23%)	54.9	51.5	48.5	48.7	49.1	51.1	51.6	53.4	54.8	59.2	59.1	57.3
Above Normal (24%)	59.8	55.3	51.4	49.3	50.3	53.2	52.9	54.9	56.1	61.7	62.0	60.7
Below Normal (10%)	58.0	54.2	50.6	48.9	50.1	53.1	53.2	54.7	59.4	63.3	62.2	60.7
Dry (16%)	58.4	54.6	51.0	49.4	50.7	54.9	54.7	55.9	61.7	64.0	63.0	61.6
Critical (27%)	60.6	56.0	52.1	49.8	51.9	56.4	56.0	57.8	63.0	64.7	64.8	64.0

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.6	58.7	53.5	51.3	52.5	55.8	55.3	57.7	63.9	65.6	65.4	64.5
20%	59.3	56.9	52.6	50.8	51.7	55.1	54.8	56.8	62.5	64.6	64.2	63.3
30%	57.6	56.2	52.3	50.1	51.2	54.6	54.1	56.0	61.6	64.1	63.4	62.0
40%	56.8	55.1	51.5	49.6	50.7	54.0	53.6	55.3	60.7	63.7	62.9	61.7
50%	56.4	54.9	51.1	49.1	50.3	53.7	53.1	55.0	59.3	63.2	62.5	61.2
60%	55.9	54.6	50.7	48.8	50.1	53.2	52.7	54.4	56.6	62.6	62.2	60.7
70%	55.2	54.1	50.5	48.4	49.6	52.1	52.2	53.9	55.9	62.1	61.9	60.4
80%	54.9	53.7	50.2	47.9	49.2	51.0	51.9	53.6	55.3	61.5	61.5	59.9
90%	54.0	52.7	49.8	47.1	48.4	49.7	50.8	52.6	54.4	58.6	59.8	58.2
Long Term												
Full Simulation Period[b]	57.2	55.3	51.4	49.2	50.4	53.2	53.2	55.1	59.0	62.9	62.7	61.5
Water Year Types[c]												
Wet (23%)	53.1	51.8	48.6	48.7	49.3	50.2	51.3	53.2	55.2	59.5	59.4	57.8
Above Normal (24%)	57.9	55.5	51.2	49.0	49.9	52.7	52.4	54.5	56.3	61.9	62.2	61.1
Below Normal (10%)	56.2	54.7	50.7	48.9	50.3	53.4	52.9	54.2	58.8	63.3	62.4	61.0
Dry (16%)	56.3	55.0	51.1	49.5	50.9	54.5	54.0	55.4	61.2	64.2	63.5	62.4
Critical (27%)	58.6	56.2	52.1	49.8	51.6	55.2	55.2	57.4	63.4	65.9	65.5	64.6

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.3**	**1.3**	0.5	0.2	-0.1	**-1.0**	**-0.9**	-0.3	**0.8**	0.3	**0.8**	**1.2**
20%	**-2.1**	**0.5**	0.0	0.1	0.0	**-0.8**	**-0.6**	**-0.5**	-0.1	0.3	**0.6**	**0.8**
30%	**-3.5**	**0.6**	0.4	0.1	0.0	**-0.6**	**-0.8**	**-0.5**	**-0.5**	0.3	0.4	0.2
40%	**-2.7**	0.0	-0.1	0.0	-0.1	-0.4	**-0.5**	**-0.7**	**-0.8**	0.2	0.2	0.3
50%	**-2.6**	0.3	0.0	0.0	-0.1	0.0	-0.4	**-0.5**	0.0	0.1	0.1	0.3
60%	**-2.1**	0.3	-0.1	-0.2	0.0	0.0	**-0.5**	-0.4	0.3	0.1	0.1	0.2
70%	**-1.6**	0.1	-0.1	-0.1	-0.1	-0.4	-0.4	-0.4	0.1	0.0	0.0	0.4
80%	**-1.5**	0.1	-0.1	-0.2	-0.1	**-0.7**	-0.1	-0.2	0.2	0.1	0.0	0.4
90%	**-1.7**	-0.1	-0.1	-0.4	-0.1	**-0.7**	-0.4	-0.3	**0.5**	0.0	**-0.5**	0.2
Long Term												
Full Simulation Period[b]	**-1.9**	0.3	0.0	-0.1	-0.1	**-0.7**	**-0.6**	-0.4	0.1	0.5	0.4	**0.5**
Water Year Types[c]												
Wet (23%)	**-1.8**	0.3	0.1	0.0	0.2	**-0.9**	-0.3	-0.2	0.4	0.3	0.3	**0.5**
Above Normal (24%)	**-1.9**	0.1	-0.2	-0.3	-0.4	-0.5	**-0.5**	-0.3	0.2	0.2	0.2	0.4
Below Normal (10%)	**-1.8**	0.5	0.1	0.0	0.2	0.3	-0.4	-0.5	**-0.6**	0.0	0.1	0.4
Dry (16%)	**-2.1**	0.4	0.1	0.1	0.2	-0.3	**-0.8**	**-0.5**	-0.5	0.2	**0.6**	**0.7**
Critical (27%)	**-2.0**	0.2	0.0	0.0	-0.2	**-1.2**	**-0.8**	-0.3	0.4	**1.2**	**0.7**	**0.6**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.8.3 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.9	57.4	53.0	51.1	52.6	56.7	56.1	58.0	63.1	65.2	64.6	63.3
20%	61.5	56.4	52.6	50.6	51.7	55.8	55.4	57.4	62.6	64.3	63.6	62.4
30%	61.0	55.5	52.0	50.0	51.2	55.2	54.9	56.5	62.1	63.8	63.0	61.9
40%	59.5	55.0	51.5	49.6	50.8	54.4	54.2	56.0	61.5	63.5	62.7	61.4
50%	59.0	54.6	51.1	49.1	50.5	53.7	53.5	55.5	59.2	63.1	62.4	60.9
60%	57.9	54.3	50.8	49.0	50.0	53.3	53.2	54.8	56.4	62.6	62.1	60.6
70%	56.8	54.0	50.6	48.4	49.8	52.5	52.6	54.3	55.8	62.1	61.8	60.0
80%	56.4	53.5	50.3	48.0	49.3	51.6	51.9	53.8	55.1	61.5	61.5	59.5
90%	55.7	52.8	49.9	47.5	48.4	50.3	51.2	52.9	53.9	58.6	60.4	57.9
Long Term												
Full Simulation Period[b]	59.2	55.1	51.4	49.3	50.5	53.8	53.8	55.5	58.9	62.4	62.3	60.9
Water Year Types[c]												
Wet (23%)	54.9	51.5	48.5	48.7	49.1	51.1	51.6	53.4	54.8	59.2	59.1	57.3
Above Normal (24%)	59.8	55.3	51.4	49.3	50.3	53.2	52.9	54.9	56.1	61.7	62.0	60.7
Below Normal (10%)	58.0	54.2	50.6	48.9	50.1	53.1	53.2	54.7	59.4	63.3	62.2	60.7
Dry (16%)	58.4	54.6	51.0	49.4	50.7	54.9	54.7	55.9	61.7	64.0	63.0	61.6
Critical (27%)	60.6	56.0	52.1	49.8	51.9	56.4	56.0	57.8	63.0	64.7	64.8	64.0

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.3	57.6	53.2	51.0	52.9	55.8	55.5	57.8	63.9	65.8	64.8	63.5
20%	60.0	56.6	52.7	50.7	51.9	55.2	54.8	56.7	63.2	64.8	63.8	62.6
30%	59.2	55.4	52.2	50.2	51.3	54.6	54.3	56.2	62.6	64.2	63.1	62.1
40%	58.3	54.8	51.6	49.5	50.9	54.1	53.8	55.6	62.1	63.9	62.8	61.4
50%	57.9	54.5	51.1	49.2	50.5	53.7	53.2	55.2	61.7	63.5	62.4	61.1
60%	57.4	54.1	50.9	48.8	50.1	53.4	52.8	54.7	61.3	63.3	62.1	60.8
70%	56.8	53.9	50.5	48.5	49.7	52.6	52.5	54.4	60.8	63.1	61.9	60.3
80%	56.4	53.5	50.2	48.2	49.4	51.6	51.8	53.8	60.3	62.7	61.6	60.0
90%	55.4	52.9	49.9	47.5	48.5	50.5	51.1	53.1	59.0	61.4	60.4	55.8
Long Term												
Full Simulation Period[b]	58.3	55.0	51.4	49.3	50.6	53.4	53.4	55.3	61.3	63.3	62.4	60.8
Water Year Types[c]												
Wet (23%)	54.3	51.4	48.5	48.8	49.3	51.2	51.6	53.5	58.0	59.6	59.0	57.3
Above Normal (24%)	58.8	55.4	51.4	49.3	50.2	52.8	52.5	54.6	61.2	63.1	62.2	60.8
Below Normal (10%)	57.5	54.2	50.6	48.8	50.2	53.2	53.1	54.8	61.3	63.5	62.2	60.9
Dry (16%)	57.6	54.4	51.0	49.4	51.0	54.5	54.2	56.0	62.5	64.2	62.9	61.6
Critical (27%)	59.4	55.8	52.1	49.8	52.0	55.4	55.3	57.4	63.6	65.9	65.1	63.4

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.6**	0.2	0.2	-0.1	0.3	**-1.0**	**-0.7**	-0.2	**0.9**	**0.6**	0.2	0.1
20%	**-1.5**	0.1	0.1	0.1	0.3	**-0.6**	**-0.6**	**-0.7**	**0.5**	**0.5**	0.2	0.2
30%	**-1.8**	-0.2	0.3	0.1	0.1	**-0.6**	**-0.6**	-0.2	0.5	0.4	0.1	0.2
40%	**-1.3**	-0.2	0.0	-0.1	0.1	-0.3	-0.4	-0.4	**0.6**	0.4	0.1	0.0
50%	**-1.1**	-0.1	-0.1	0.0	0.0	0.0	-0.2	-0.3	**2.5**	0.4	0.0	0.1
60%	**-0.5**	-0.2	0.1	-0.1	0.1	0.1	-0.4	-0.1	**4.9**	**0.7**	0.0	0.2
70%	0.0	-0.2	-0.1	0.1	-0.1	0.1	-0.1	0.1	**5.0**	**1.0**	0.1	0.3
80%	0.0	0.0	-0.1	0.1	0.1	0.0	-0.1	0.0	**5.2**	**1.3**	0.1	0.5
90%	-0.3	0.1	0.0	0.0	0.0	0.2	-0.1	0.2	**5.1**	**2.8**	0.1	**-2.1**
Long Term												
Full Simulation Period[b]	**-0.9**	-0.1	0.0	0.0	0.1	-0.4	-0.4	-0.1	**2.4**	**0.8**	0.1	-0.1
Water Year Types[c]												
Wet (23%)	**-0.5**	-0.1	0.0	0.1	0.2	0.1	0.0	0.1	**3.1**	0.4	-0.1	0.0
Above Normal (24%)	**-1.0**	0.0	0.1	0.0	0.0	-0.3	-0.3	-0.3	**5.1**	**1.5**	0.1	0.2
Below Normal (10%)	-0.5	0.0	0.0	0.0	0.1	0.1	-0.1	0.1	**1.9**	0.2	0.0	0.2
Dry (16%)	**-0.8**	-0.1	0.0	0.0	0.2	-0.3	**-0.6**	0.0	**0.8**	0.3	0.0	0.0
Critical (27%)	**-1.2**	-0.2	0.0	0.0	0.1	**-1.0**	**-0.7**	-0.4	**0.6**	**1.2**	0.3	**-0.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.8.4 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.9	57.4	53.0	51.1	52.6	56.7	56.1	58.0	63.1	65.2	64.6	63.3
20%	61.5	56.4	52.6	50.6	51.7	55.8	55.4	57.4	62.6	64.3	63.6	62.4
30%	61.0	55.5	52.0	50.0	51.2	55.2	54.9	56.5	62.1	63.8	63.0	61.9
40%	59.5	55.0	51.5	49.6	50.8	54.4	54.2	56.0	61.5	63.5	62.7	61.4
50%	59.0	54.6	51.1	49.1	50.5	53.7	53.5	55.5	59.2	63.1	62.4	60.9
60%	57.9	54.3	50.8	49.0	50.0	53.3	53.2	54.8	56.4	62.6	62.1	60.6
70%	56.8	54.0	50.6	48.4	49.8	52.5	52.6	54.3	55.8	62.1	61.8	60.0
80%	56.4	53.5	50.3	48.0	49.3	51.6	51.9	53.8	55.1	61.5	61.5	59.5
90%	55.7	52.8	49.9	47.5	48.4	50.3	51.2	52.9	53.9	58.6	60.4	57.9
Long Term												
Full Simulation Period[b]	59.2	55.1	51.4	49.3	50.5	53.8	53.8	55.5	58.9	62.4	62.3	60.9
Water Year Types[c]												
Wet (23%)	54.9	51.5	48.5	48.7	49.1	51.1	51.6	53.4	54.8	59.2	59.1	57.3
Above Normal (24%)	59.8	55.3	51.4	49.3	50.3	53.2	52.9	54.9	56.1	61.7	62.0	60.7
Below Normal (10%)	58.0	54.2	50.6	48.9	50.1	53.1	53.2	54.7	59.4	63.3	62.2	60.7
Dry (16%)	58.4	54.6	51.0	49.4	50.7	54.9	54.7	55.9	61.7	64.0	63.0	61.6
Critical (27%)	60.6	56.0	52.1	49.8	51.9	56.4	56.0	57.8	63.0	64.7	64.8	64.0

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.0	59.6	53.4	51.3	52.5	55.7	54.6	56.3	64.0	66.4	67.0	67.3
20%	60.0	58.0	52.6	50.6	51.7	55.0	54.1	55.8	62.7	65.1	65.0	64.2
30%	58.1	56.5	52.2	49.9	51.2	54.5	53.7	55.4	61.8	64.3	63.7	62.7
40%	57.1	55.3	51.6	49.6	50.7	54.0	53.5	55.0	61.0	63.7	63.0	61.8
50%	56.5	55.0	51.2	49.1	50.3	53.6	53.0	54.7	59.2	63.2	62.7	61.3
60%	55.9	54.6	50.8	48.9	50.1	53.3	52.6	54.3	57.0	62.7	62.3	60.9
70%	55.4	54.2	50.6	48.4	49.6	52.0	52.2	53.7	55.9	62.2	61.9	60.6
80%	55.0	53.7	50.3	47.9	49.2	51.0	51.8	53.4	55.3	61.6	61.5	60.0
90%	54.0	53.1	49.8	47.2	48.3	49.6	50.7	52.6	54.4	58.9	60.1	58.1
Long Term												
Full Simulation Period[b]	57.8	55.7	51.5	49.2	50.4	53.1	52.9	54.8	59.1	63.3	63.2	61.9
Water Year Types[c]												
Wet (23%)	53.6	52.0	48.7	48.7	49.3	50.3	51.3	53.1	55.3	60.2	60.0	58.0
Above Normal (24%)	58.6	56.0	51.2	48.9	49.8	52.6	52.4	54.0	56.3	62.0	62.4	61.4
Below Normal (10%)	57.0	54.6	50.6	48.8	50.2	53.3	52.9	54.3	59.1	63.5	62.6	61.5
Dry (16%)	56.8	55.4	51.4	49.6	51.0	54.5	53.5	54.9	61.5	64.6	63.9	62.7
Critical (27%)	59.0	56.6	52.2	49.8	51.6	55.1	54.5	57.0	63.7	66.2	66.5	65.6

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.1**	**2.2**	0.4	0.3	-0.1	**-1.0**	**-1.5**	**-1.6**	**1.0**	**1.2**	**2.4**	**3.9**
20%	**-1.5**	**1.6**	0.0	-0.1	0.0	**-0.8**	**-1.3**	**-1.6**	0.1	**0.9**	**1.4**	**1.7**
30%	**-2.9**	**0.9**	0.2	-0.1	0.0	**-0.7**	**-1.3**	**-1.1**	-0.4	0.5	**0.7**	**0.9**
40%	**-2.4**	0.2	0.1	-0.1	-0.1	-0.5	**-0.7**	**-1.0**	-0.5	0.2	0.3	0.4
50%	**-2.5**	0.4	0.0	-0.1	-0.2	-0.1	-0.4	**-0.8**	0.0	0.1	0.3	0.4
60%	**-2.0**	0.4	0.0	-0.1	0.0	0.0	**-0.5**	-0.5	**0.7**	0.2	0.2	0.3
70%	**-1.4**	0.2	0.0	0.0	-0.1	**-0.5**	-0.3	**-0.6**	0.1	0.1	0.1	**0.5**
80%	**-1.4**	0.2	0.0	-0.1	-0.1	**-0.6**	-0.1	-0.4	0.3	0.2	0.0	0.4
90%	**-1.7**	0.2	-0.1	-0.3	-0.2	**-0.7**	**-0.5**	-0.3	**0.5**	0.3	-0.3	0.1
Long Term												
Full Simulation Period[b]	**-1.4**	**0.6**	0.1	0.0	-0.1	**-0.7**	**-0.8**	**-0.7**	0.3	**0.8**	**0.9**	**1.0**
Water Year Types[c]												
Wet (23%)	**-1.3**	0.5	0.2	0.1	0.2	**-0.8**	-0.3	-0.4	0.5	**1.0**	**0.9**	**0.7**
Above Normal (24%)	**-1.2**	**0.6**	-0.2	-0.3	-0.5	**-0.5**	-0.4	**-0.9**	0.1	0.3	0.4	**0.7**
Below Normal (10%)	**-1.0**	0.4	0.0	-0.1	0.1	0.2	-0.3	-0.4	-0.3	0.2	0.4	**0.8**
Dry (16%)	**-1.6**	**0.8**	0.4	0.2	0.2	-0.4	**-1.3**	**-1.0**	-0.2	**0.6**	**0.9**	**1.0**
Critical (27%)	**-1.7**	**0.6**	0.1	0.0	-0.2	**-1.3**	**-1.5**	**-0.7**	**0.7**	**1.5**	**1.7**	**1.7**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.9 Stanislaus River at Mouth Temperature

Table 5C.3.2.9.1 Stanislaus River at Mouth, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.3	58.6	51.9	51.4	55.1	60.5	62.1	65.5	72.3	76.5	75.2	71.8
20%	62.9	57.4	51.6	50.8	54.3	59.7	61.1	64.6	71.7	75.5	74.4	70.7
30%	61.7	56.8	51.0	50.2	53.8	59.1	60.3	63.6	70.8	74.9	73.8	70.4
40%	60.6	56.5	50.7	49.7	53.2	58.7	58.8	62.1	70.2	74.3	73.4	69.8
50%	60.1	55.7	50.3	49.4	52.9	57.9	57.9	61.0	67.8	73.8	73.0	69.5
60%	59.6	55.2	49.9	49.0	52.6	57.0	57.1	60.7	65.3	73.1	72.6	69.0
70%	59.0	55.0	49.7	48.8	52.1	55.7	56.2	59.8	63.8	72.9	72.4	68.6
80%	58.7	54.7	49.3	48.5	51.5	53.6	55.7	58.7	62.7	71.7	71.9	68.1
90%	58.2	54.2	49.0	47.9	50.6	52.1	54.8	58.0	61.7	69.3	70.7	66.9
Long Term												
Full Simulation Period[b]	60.8	56.0	50.4	49.6	52.9	57.1	58.3	61.6	67.3	73.1	72.6	69.0
Water Year Types[c]												
Wet (23%)	56.7	52.7	48.1	49.6	51.8	53.0	55.4	58.9	63.1	69.7	69.6	65.7
Above Normal (24%)	61.1	56.0	50.4	49.5	52.5	56.8	57.2	61.2	64.2	72.1	72.6	69.2
Below Normal (10%)	59.7	55.5	49.9	49.3	52.5	57.3	57.4	59.9	67.6	73.9	72.6	69.0
Dry (16%)	60.3	56.0	49.9	49.7	53.3	58.6	59.6	62.1	70.3	75.0	73.4	70.0
Critical (27%)	61.9	56.6	50.6	49.6	54.2	59.9	61.3	64.8	72.0	75.7	74.6	71.1

Revised Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.8	58.5	52.0	51.4	54.8	60.8	63.5	66.4	72.5	76.0	74.9	71.4
20%	65.8	57.8	51.4	50.7	54.1	60.1	62.8	65.6	72.2	75.4	74.2	70.4
30%	64.7	57.0	51.0	50.2	53.8	59.3	61.6	64.6	71.1	74.8	73.6	70.1
40%	64.1	56.5	50.7	49.7	53.2	58.9	60.2	63.7	70.6	74.3	73.3	69.7
50%	63.5	55.8	50.2	49.2	52.6	57.5	59.5	62.6	68.3	73.9	72.9	69.4
60%	62.5	55.5	50.0	49.0	52.3	57.1	57.8	61.7	65.2	73.2	72.5	68.8
70%	61.9	55.2	49.6	48.8	51.9	56.5	56.8	60.0	63.8	72.7	72.3	68.5
80%	61.2	54.8	49.4	48.5	51.0	55.8	56.1	59.1	62.4	71.8	72.0	68.0
90%	60.2	54.3	48.9	47.9	50.3	53.9	55.4	58.6	61.3	69.0	71.0	66.9
Long Term												
Full Simulation Period[b]	63.4	56.2	50.4	49.5	52.7	57.6	59.3	62.5	67.2	72.9	72.3	68.6
Water Year Types[c]												
Wet (23%)	59.2	52.8	48.0	49.6	51.0	54.5	55.8	59.3	61.8	68.8	68.9	64.7
Above Normal (24%)	63.5	56.1	50.4	49.6	52.5	57.2	58.0	61.9	64.1	72.0	72.6	69.0
Below Normal (10%)	62.4	55.5	49.9	49.2	52.1	57.1	58.3	60.9	68.2	74.0	72.6	68.9
Dry (16%)	63.1	56.1	49.9	49.6	53.1	58.6	61.3	63.3	70.8	75.1	73.2	69.7
Critical (27%)	64.6	56.9	50.6	49.5	54.2	60.3	62.8	65.9	72.1	75.4	74.3	70.8

Revised Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.5**	-0.1	0.1	0.0	-0.2	0.3	**1.4**	**0.9**	0.2	**-0.5**	-0.4	-0.5
20%	**2.8**	0.4	-0.1	0.0	-0.2	0.5	**1.7**	**1.0**	**0.5**	0.0	-0.2	-0.3
30%	**3.0**	0.1	-0.1	0.0	0.0	0.2	**1.4**	**1.1**	0.4	-0.1	-0.2	-0.3
40%	**3.5**	0.0	0.0	0.0	0.0	0.2	**1.5**	**1.5**	0.4	0.1	-0.2	-0.2
50%	**3.4**	0.2	0.0	-0.2	-0.4	-0.4	**1.6**	**1.7**	**0.5**	0.0	-0.1	-0.1
60%	**2.9**	0.2	0.1	0.0	-0.3	0.2	**0.7**	**1.0**	-0.1	0.1	0.0	-0.2
70%	**2.8**	0.2	0.0	-0.1	-0.3	**0.9**	**0.5**	0.2	0.0	-0.1	0.0	-0.1
80%	**2.5**	0.1	0.1	0.0	**-0.5**	**2.2**	0.4	0.4	-0.3	0.1	0.1	-0.1
90%	**2.0**	0.1	-0.2	0.1	-0.3	**1.8**	**0.6**	**0.6**	-0.4	-0.4	0.3	0.0
Long Term												
Full Simulation Period[b]	**2.6**	0.1	0.0	0.0	-0.2	**0.5**	**1.0**	**0.9**	-0.2	-0.3	-0.3	-0.4
Water Year Types[c]												
Wet (23%)	**2.5**	0.1	0.0	-0.1	**-0.7**	**1.5**	0.4	0.5	**-1.3**	**-0.9**	**-0.7**	**-1.0**
Above Normal (24%)	**2.4**	0.1	0.0	0.1	0.0	0.4	**0.8**	**0.6**	-0.1	-0.1	0.0	-0.1
Below Normal (10%)	**2.6**	-0.1	0.0	-0.1	-0.4	-0.2	**0.9**	**1.0**	**0.6**	0.1	0.0	-0.2
Dry (16%)	**2.8**	0.1	0.0	-0.1	-0.2	0.0	**1.7**	**1.2**	0.5	0.0	-0.2	-0.2
Critical (27%)	**2.7**	0.2	0.0	0.0	0.0	0.4	**1.5**	**1.2**	0.2	-0.3	-0.3	-0.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.9.2 Stanislaus River at Mouth, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.8	58.5	52.0	51.4	54.8	60.8	63.5	66.4	72.5	76.0	74.9	71.4
20%	65.8	57.8	51.4	50.7	54.1	60.1	62.8	65.6	72.2	75.4	74.2	70.4
30%	64.7	57.0	51.0	50.2	53.8	59.3	61.6	64.6	71.1	74.8	73.6	70.1
40%	64.1	56.5	50.7	49.7	53.2	58.9	60.2	63.7	70.6	74.3	73.3	69.7
50%	63.5	55.8	50.2	49.2	52.6	57.5	59.5	62.6	68.3	73.9	72.9	69.4
60%	62.5	55.5	50.0	49.0	52.3	57.1	57.8	61.7	65.2	73.2	72.5	68.8
70%	61.9	55.2	49.6	48.8	51.9	56.5	56.8	60.0	63.8	72.7	72.3	68.5
80%	61.2	54.8	49.4	48.5	51.0	55.8	56.1	59.1	62.4	71.8	72.0	68.0
90%	60.2	54.3	48.9	47.9	50.3	53.9	55.4	58.6	61.3	69.0	71.0	66.9
Long Term												
Full Simulation Period[b]	63.4	56.2	50.4	49.5	52.7	57.6	59.3	62.5	67.2	72.9	72.3	68.6
Water Year Types[c]												
Wet (23%)	59.2	52.8	48.0	49.6	51.0	54.5	55.8	59.3	61.8	68.8	68.9	64.7
Above Normal (24%)	63.5	56.1	50.4	49.6	52.5	57.2	58.0	61.9	64.1	72.0	72.6	69.0
Below Normal (10%)	62.4	55.5	49.9	49.2	52.1	57.1	58.3	60.9	68.2	74.0	72.6	68.9
Dry (16%)	63.1	56.1	49.9	49.6	53.1	58.6	61.3	63.3	70.8	75.1	73.2	69.7
Critical (27%)	64.6	56.9	50.6	49.5	54.2	60.3	62.8	65.9	72.1	75.4	74.3	70.8

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.3	58.6	51.9	51.4	55.1	60.5	62.1	65.5	72.3	76.5	75.2	71.8
20%	62.9	57.4	51.6	50.8	54.3	59.7	61.1	64.6	71.7	75.5	74.4	70.7
30%	61.7	56.8	51.0	50.2	53.8	59.1	60.3	63.6	70.8	74.9	73.8	70.4
40%	60.6	56.5	50.7	49.7	53.2	58.7	58.8	62.1	70.2	74.3	73.4	69.8
50%	60.1	55.7	50.3	49.4	52.9	57.9	57.9	61.0	67.8	73.8	73.0	69.5
60%	59.6	55.2	49.9	49.0	52.6	57.0	57.1	60.7	65.3	73.1	72.6	69.0
70%	59.0	55.0	49.7	48.8	52.1	55.7	56.2	59.8	63.8	72.9	72.4	68.6
80%	58.7	54.7	49.3	48.5	51.5	53.6	55.7	58.7	62.7	71.7	71.9	68.1
90%	58.2	54.2	49.0	47.9	50.6	52.1	54.8	58.0	61.7	69.3	70.7	66.9
Long Term												
Full Simulation Period[b]	60.8	56.0	50.4	49.6	52.9	57.1	58.3	61.6	67.3	73.1	72.6	69.0
Water Year Types[c]												
Wet (23%)	56.7	52.7	48.1	49.6	51.8	53.0	55.4	58.9	63.1	69.7	69.6	65.7
Above Normal (24%)	61.1	56.0	50.4	49.5	52.5	56.8	57.2	61.2	64.2	72.1	72.6	69.2
Below Normal (10%)	59.7	55.5	49.9	49.3	52.5	57.3	57.4	59.9	67.6	73.9	72.6	69.0
Dry (16%)	60.3	56.0	49.9	49.7	53.3	58.6	59.6	62.1	70.3	75.0	73.4	70.0
Critical (27%)	61.9	56.6	50.6	49.6	54.2	59.9	61.3	64.8	72.0	75.7	74.6	71.1

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2.5	0.1	-0.1	0.0	0.2	-0.3	-1.4	-0.9	-0.2	0.5	0.4	0.5
20%	-2.8	-0.4	0.1	0.0	0.2	-0.5	-1.7	-1.0	-0.5	0.0	0.2	0.3
30%	-3.0	-0.1	0.1	0.0	0.0	-0.2	-1.4	-1.1	-0.4	0.1	0.2	0.3
40%	-3.5	0.0	0.0	0.0	0.0	-0.2	-1.5	-1.5	-0.4	-0.1	0.2	0.2
50%	-3.4	-0.2	0.0	0.2	0.4	0.4	-1.6	-1.7	-0.5	0.0	0.1	0.1
60%	-2.9	-0.2	-0.1	0.0	0.3	-0.2	-0.7	-1.0	0.1	-0.1	0.0	0.2
70%	-2.8	-0.2	0.0	0.1	0.3	-0.9	-0.5	-0.2	0.0	0.1	0.0	0.1
80%	-2.5	-0.1	-0.1	0.0	0.5	-2.2	-0.4	-0.4	0.3	-0.1	-0.1	0.1
90%	-2.0	-0.1	0.2	-0.1	0.3	-1.8	-0.6	-0.6	0.4	0.4	-0.3	0.0
Long Term												
Full Simulation Period[b]	-2.6	-0.1	0.0	0.0	0.2	-0.5	-1.0	-0.9	0.2	0.3	0.3	0.4
Water Year Types[c]												
Wet (23%)	-2.5	-0.1	0.0	0.1	0.7	-1.5	-0.4	-0.5	1.3	0.9	0.7	1.0
Above Normal (24%)	-2.4	-0.1	0.0	-0.1	0.0	-0.4	-0.8	-0.6	0.1	0.1	0.0	0.1
Below Normal (10%)	-2.6	0.1	0.0	0.1	0.4	0.2	-0.9	-1.0	-0.6	-0.1	0.0	0.2
Dry (16%)	-2.8	-0.1	0.0	0.1	0.2	0.0	-1.7	-1.2	-0.5	0.0	0.2	0.2
Critical (27%)	-2.7	-0.2	0.0	0.0	0.0	-0.4	-1.5	-1.2	-0.2	0.3	0.3	0.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.9.3 Stanislaus River at Mouth, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.8	58.5	52.0	51.4	54.8	60.8	63.5	66.4	72.5	76.0	74.9	71.4
20%	65.8	57.8	51.4	50.7	54.1	60.1	62.8	65.6	72.2	75.4	74.2	70.4
30%	64.7	57.0	51.0	50.2	53.8	59.3	61.6	64.6	71.1	74.8	73.6	70.1
40%	64.1	56.5	50.7	49.7	53.2	58.9	60.2	63.7	70.6	74.3	73.3	69.7
50%	63.5	55.8	50.2	49.2	52.6	57.5	59.5	62.6	68.3	73.9	72.9	69.4
60%	62.5	55.5	50.0	49.0	52.3	57.1	57.8	61.7	65.2	73.2	72.5	68.8
70%	61.9	55.2	49.6	48.8	51.9	56.5	56.8	60.0	63.8	72.7	72.3	68.5
80%	61.2	54.8	49.4	48.5	51.0	55.8	56.1	59.1	62.4	71.8	72.0	68.0
90%	60.2	54.3	48.9	47.9	50.3	53.9	55.4	58.6	61.3	69.0	71.0	66.9
Long Term												
Full Simulation Period[b]	63.4	56.2	50.4	49.5	52.7	57.6	59.3	62.5	67.2	72.9	72.3	68.6
Water Year Types[c]												
Wet (23%)	59.2	52.8	48.0	49.6	51.0	54.5	55.8	59.3	61.8	68.8	68.9	64.7
Above Normal (24%)	63.5	56.1	50.4	49.6	52.5	57.2	58.0	61.9	64.1	72.0	72.6	69.0
Below Normal (10%)	62.4	55.5	49.9	49.2	52.1	57.1	58.3	60.9	68.2	74.0	72.6	68.9
Dry (16%)	63.1	56.1	49.9	49.6	53.1	58.6	61.3	63.3	70.8	75.1	73.2	69.7
Critical (27%)	64.6	56.9	50.6	49.5	54.2	60.3	62.8	65.9	72.1	75.4	74.3	70.8

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.7	58.3	51.9	51.6	55.2	60.9	62.6	65.8	73.2	76.9	75.3	71.7
20%	65.2	57.7	51.5	50.7	54.7	59.7	61.6	64.6	72.4	76.0	74.3	70.7
30%	64.0	56.7	51.0	50.2	53.8	59.2	60.4	63.7	72.1	75.5	73.8	70.2
40%	63.2	56.3	50.8	49.7	53.2	58.7	59.7	62.9	71.7	75.0	73.4	69.9
50%	62.9	55.6	50.4	49.4	52.8	58.2	58.3	62.5	71.1	74.7	73.1	69.4
60%	62.4	55.3	50.0	49.0	52.3	57.3	57.3	61.7	70.3	74.2	72.5	69.0
70%	61.7	55.0	49.6	48.8	52.0	56.7	56.6	60.9	69.3	73.8	72.4	68.7
80%	61.3	54.8	49.4	48.6	51.1	55.0	56.1	60.2	68.5	73.5	72.0	68.1
90%	60.6	54.3	49.0	47.9	50.3	53.5	55.4	59.0	67.4	73.0	71.3	62.2
Long Term												
Full Simulation Period[b]	62.9	56.0	50.4	49.6	52.8	57.5	58.7	62.5	69.9	73.7	72.4	68.6
Water Year Types[c]												
Wet (23%)	58.8	52.7	48.1	49.7	51.1	54.6	55.7	60.0	65.7	69.2	68.6	64.6
Above Normal (24%)	62.9	56.0	50.5	49.7	52.6	57.1	57.4	61.8	70.2	74.2	72.9	69.2
Below Normal (10%)	62.3	55.5	49.9	49.1	52.1	57.3	58.2	61.2	70.0	74.4	72.6	69.0
Dry (16%)	62.6	55.9	49.9	49.6	53.3	58.6	60.4	63.3	71.6	75.4	73.2	69.7
Critical (27%)	64.0	56.6	50.7	49.5	54.4	60.0	61.6	65.1	72.3	76.0	74.5	70.8

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.1**	-0.2	0.0	0.2	0.4	0.0	**-0.9**	**-0.6**	**0.6**	**1.0**	0.4	0.4
20%	**-0.6**	-0.1	0.1	0.0	**0.6**	-0.4	**-1.3**	**-1.0**	0.2	**0.6**	0.1	0.2
30%	**-0.7**	-0.2	0.0	0.0	0.0	-0.1	**-1.2**	**-0.9**	**1.0**	**0.7**	0.2	0.1
40%	**-0.9**	-0.2	0.1	0.0	0.0	-0.2	**-0.5**	**-0.7**	**1.1**	**0.7**	0.1	0.2
50%	**-0.7**	-0.2	0.2	0.2	0.3	**0.7**	**-1.2**	-0.2	**2.7**	**0.8**	0.1	0.0
60%	-0.1	-0.1	0.0	-0.1	0.1	0.2	**-0.5**	0.0	**5.1**	**1.0**	0.0	0.2
70%	-0.1	-0.2	0.0	0.1	0.1	0.2	-0.1	**0.9**	**5.5**	**1.1**	0.1	0.1
80%	0.1	0.0	0.0	0.1	0.0	**-0.8**	0.0	**1.1**	**6.1**	**1.8**	0.0	0.0
90%	0.4	0.0	0.1	0.0	0.0	-0.3	0.0	0.4	**6.1**	**4.0**	0.4	**-4.7**
Long Term												
Full Simulation Period[b]	-0.5	-0.1	0.1	0.0	0.1	-0.1	**-0.6**	-0.1	**2.7**	**0.9**	0.1	0.0
Water Year Types[c]												
Wet (23%)	-0.3	-0.1	0.0	0.1	0.1	0.1	-0.1	**0.6**	**3.9**	0.4	-0.3	-0.1
Above Normal (24%)	**-0.6**	-0.1	0.1	0.0	0.0	-0.1	**-0.5**	0.0	**6.1**	**2.2**	0.3	0.1
Below Normal (10%)	-0.1	0.0	0.0	-0.1	0.1	0.2	-0.2	0.3	**1.8**	0.4	0.0	0.2
Dry (16%)	-0.5	-0.1	0.0	0.0	0.2	0.0	**-1.0**	0.0	**0.8**	0.3	0.0	0.0
Critical (27%)	**-0.6**	-0.2	0.1	0.0	0.2	-0.2	**-1.2**	**-0.8**	0.2	**0.6**	0.3	0.0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.9.4 Stanislaus River at Mouth, Monthly Temperature

Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.8	58.5	52.0	51.4	54.8	60.8	63.5	66.4	72.5	76.0	74.9	71.4
20%	65.8	57.8	51.4	50.7	54.1	60.1	62.8	65.6	72.2	75.4	74.2	70.4
30%	64.7	57.0	51.0	50.2	53.8	59.3	61.6	64.6	71.1	74.8	73.6	70.1
40%	64.1	56.5	50.7	49.7	53.2	58.9	60.2	63.7	70.6	74.3	73.3	69.7
50%	63.5	55.8	50.2	49.2	52.6	57.5	59.5	62.6	68.3	73.9	72.9	69.4
60%	62.5	55.5	50.0	49.0	52.3	57.1	57.8	61.7	65.2	73.2	72.5	68.8
70%	61.9	55.2	49.6	48.8	51.9	56.5	56.8	60.0	63.8	72.7	72.3	68.5
80%	61.2	54.8	49.4	48.5	51.0	55.8	56.1	59.1	62.4	71.8	72.0	68.0
90%	60.2	54.3	48.9	47.9	50.3	53.9	55.4	58.6	61.3	69.0	71.0	66.9
Long Term												
Full Simulation Period[b]	63.4	56.2	50.4	49.5	52.7	57.6	59.3	62.5	67.2	72.9	72.3	68.6
Water Year Types[c]												
Wet (23%)	59.2	52.8	48.0	49.6	51.0	54.5	55.8	59.3	61.8	68.8	68.9	64.7
Above Normal (24%)	63.5	56.1	50.4	49.6	52.5	57.2	58.0	61.9	64.1	72.0	72.6	69.0
Below Normal (10%)	62.4	55.5	49.9	49.2	52.1	57.1	58.3	60.9	68.2	74.0	72.6	68.9
Dry (16%)	63.1	56.1	49.9	49.6	53.1	58.6	61.3	63.3	70.8	75.1	73.2	69.7
Critical (27%)	64.6	56.9	50.6	49.5	54.2	60.3	62.8	65.9	72.1	75.4	74.3	70.8

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.4	58.6	52.2	51.4	55.1	60.5	60.1	64.4	72.3	76.3	75.4	72.0
20%	63.3	57.7	51.5	50.8	54.4	59.7	59.1	62.6	71.8	75.6	74.6	71.0
30%	62.0	57.0	51.0	50.3	53.7	59.2	58.7	61.5	70.9	75.0	73.9	70.5
40%	61.1	56.7	50.5	49.7	53.2	58.7	58.3	60.8	70.1	74.3	73.5	70.0
50%	60.4	56.0	50.3	49.3	52.9	57.9	57.7	60.1	67.6	73.9	73.1	69.7
60%	59.7	55.4	50.0	49.0	52.6	57.1	57.3	59.5	65.2	73.1	72.6	69.2
70%	59.2	55.1	49.7	48.9	52.0	55.9	56.3	59.0	64.0	72.9	72.4	68.7
80%	58.7	54.8	49.3	48.5	51.5	53.8	55.7	58.3	62.7	72.0	72.0	68.2
90%	58.2	54.2	48.9	47.9	50.6	52.1	55.0	57.9	61.5	69.4	71.3	66.9
Long Term												
Full Simulation Period[b]	61.1	56.2	50.4	49.6	52.9	57.1	57.6	60.6	67.4	73.4	72.9	69.2
Water Year Types[c]												
Wet (23%)	57.0	52.8	48.1	49.7	51.8	53.3	55.4	58.8	63.4	70.6	70.6	66.0
Above Normal (24%)	61.5	56.3	50.4	49.5	52.5	56.8	57.4	59.9	64.1	72.1	72.7	69.3
Below Normal (10%)	60.2	55.5	49.9	49.3	52.5	57.2	57.5	59.9	67.8	73.9	72.6	69.1
Dry (16%)	60.6	56.2	50.0	49.7	53.4	58.6	58.2	60.3	70.2	75.1	73.5	70.0
Critical (27%)	62.1	56.8	50.7	49.6	54.2	59.9	59.4	63.4	72.0	75.9	74.8	71.5

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.3**	0.2	0.2	0.0	0.3	-0.3	**-3.4**	**-2.0**	-0.2	0.4	0.5	**0.7**
20%	**-2.4**	-0.1	0.1	0.0	0.3	-0.5	**-3.7**	**-3.1**	-0.4	0.2	0.4	**0.6**
30%	**-2.7**	0.0	0.1	0.1	-0.1	-0.1	**-2.9**	**-3.1**	-0.2	0.2	0.4	0.3
40%	**-3.1**	0.2	-0.2	0.0	0.1	-0.2	**-1.9**	**-2.9**	-0.4	0.0	0.2	0.3
50%	**-3.1**	0.1	0.1	0.0	0.4	0.4	**-1.8**	**-2.5**	**-0.7**	0.0	0.2	0.3
60%	**-2.8**	-0.1	0.0	0.0	0.3	0.0	-0.5	**-2.2**	-0.1	-0.1	0.1	0.4
70%	**-2.7**	-0.2	0.0	0.1	0.1	**-0.6**	-0.5	**-1.0**	0.2	0.2	0.1	0.2
80%	**-2.5**	0.0	0.0	0.0	0.5	**-2.0**	-0.4	**-0.7**	0.3	0.3	0.0	0.2
90%	**-2.0**	0.0	0.0	0.0	0.3	**-1.8**	-0.4	**-0.7**	0.2	0.5	0.3	0.0
Long Term												
Full Simulation Period[b]	**-2.3**	0.0	0.1	0.0	0.3	-0.5	**-1.7**	**-1.9**	0.2	**0.6**	**0.6**	**0.6**
Water Year Types[c]												
Wet (23%)	**-2.2**	0.0	0.1	0.1	**0.7**	**-1.2**	-0.4	**-0.6**	**1.6**	**1.8**	**1.7**	**1.3**
Above Normal (24%)	**-1.9**	0.1	0.0	-0.1	0.0	-0.5	**-0.6**	**-1.9**	0.0	0.1	0.1	0.2
Below Normal (10%)	**-2.1**	0.0	0.0	0.1	0.4	0.1	**-0.8**	**-1.0**	-0.4	0.0	0.1	0.3
Dry (16%)	**-2.5**	0.1	0.1	0.1	0.3	0.0	**-3.1**	**-3.0**	**-0.6**	0.1	0.3	0.3
Critical (27%)	**-2.4**	0.0	0.1	0.1	0.1	-0.4	**-3.3**	**-2.6**	-0.1	0.5	**0.6**	**0.6**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.10 San Joaquin River at Vernalis Flow

Table 5C.3.2.10.1 San Joaquin River at Vernalis, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,498	2,953	4,804	11,135	14,596	15,471	14,974	14,174	9,351	5,890	2,796	3,060
20%	3,161	2,777	2,857	4,812	10,143	10,197	10,637	8,318	4,690	2,628	2,589	2,654
30%	2,980	2,527	2,401	3,610	6,118	8,459	8,616	5,534	3,364	1,985	1,904	2,490
40%	2,796	2,395	2,215	2,629	4,232	5,570	7,564	4,609	2,947	1,735	1,666	2,125
50%	2,601	2,219	2,101	2,402	3,420	3,847	6,017	3,925	2,246	1,487	1,488	1,930
60%	2,401	2,169	2,046	2,293	2,683	3,459	4,832	3,062	1,859	1,366	1,403	1,835
70%	2,247	2,059	1,979	2,114	2,305	2,906	3,776	2,699	1,448	1,154	1,307	1,739
80%	1,994	1,951	1,829	1,884	2,150	2,371	2,789	2,153	1,293	1,087	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	1,887	1,678	1,085	885	1,067	1,476
Long Term												
Full Simulation Period[b]	2,672	2,611	3,391	5,070	6,655	7,278	7,528	6,039	4,194	2,622	1,847	2,223
Water Year Types[c]												
Wet (23%)	2,918	3,513	6,545	11,446	15,776	16,863	15,423	14,628	11,335	6,676	3,135	3,416
Above Normal (24%)	2,700	2,416	2,663	4,883	6,881	7,536	8,542	5,264	3,280	1,989	1,975	2,345
Below Normal (10%)	2,538	2,249	3,661	3,507	3,651	4,149	6,337	4,140	2,076	1,463	1,446	1,837
Dry (16%)	2,767	2,569	2,232	2,402	2,549	3,241	3,996	2,805	1,680	1,254	1,347	1,776
Critical (27%)	2,426	2,168	1,915	1,877	2,090	2,288	2,307	1,929	1,115	926	1,060	1,487

Revised Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,058	3,088	4,931	11,054	17,256	15,467	14,774	14,101	9,720	6,052	2,996	3,315
20%	2,699	2,813	2,924	4,859	10,259	9,401	10,359	8,202	4,768	2,636	2,599	2,659
30%	2,470	2,631	2,462	3,635	6,228	7,841	8,536	5,452	3,364	1,988	1,896	2,484
40%	2,326	2,448	2,299	2,606	4,252	5,343	7,507	4,488	2,947	1,742	1,675	2,152
50%	2,089	2,342	2,226	2,481	3,420	3,825	6,018	3,916	2,205	1,503	1,499	1,934
60%	1,895	2,218	2,100	2,247	2,681	3,460	4,432	2,913	1,824	1,384	1,415	1,837
70%	1,697	2,100	1,988	2,070	2,379	2,870	3,224	2,493	1,420	1,170	1,322	1,743
80%	1,511	1,954	1,866	1,827	2,153	2,327	2,452	1,994	1,271	1,087	1,211	1,611
90%	1,338	1,753	1,671	1,638	1,931	2,115	1,813	1,564	1,085	941	1,099	1,503
Long Term												
Full Simulation Period[b]	2,200	2,673	3,455	5,082	6,806	7,116	7,330	5,903	4,350	2,668	1,876	2,266
Water Year Types[c]												
Wet (23%)	2,472	3,596	6,642	11,484	16,260	16,444	15,398	14,493	12,009	6,823	3,227	3,582
Above Normal (24%)	2,234	2,469	2,712	4,887	6,916	7,376	8,371	5,184	3,310	1,997	1,976	2,348
Below Normal (10%)	2,052	2,330	3,742	3,561	3,837	4,077	5,974	3,968	2,025	1,478	1,455	1,847
Dry (16%)	2,305	2,644	2,306	2,421	2,623	3,227	3,656	2,625	1,661	1,266	1,362	1,783
Critical (27%)	1,926	2,205	1,952	1,854	2,092	2,228	2,079	1,780	1,114	951	1,077	1,490

Revised Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-13%**	5%	3%	-1%	**18%**	0%	-1%	-1%	4%	3%	**7%**	**8%**
20%	**-15%**	1%	2%	1%	1%	**-8%**	-3%	-1%	2%	0%	0%	0%
30%	**-17%**	4%	3%	1%	2%	**-7%**	-1%	-1%	0%	0%	0%	0%
40%	**-17%**	2%	4%	-1%	0%	-4%	-1%	-3%	0%	0%	1%	1%
50%	**-20%**	**6%**	**6%**	3%	0%	-1%	0%	0%	-2%	1%	1%	0%
60%	**-21%**	2%	3%	-2%	0%	0%	**-8%**	-5%	-2%	1%	1%	0%
70%	**-24%**	2%	0%	-2%	3%	-1%	**-15%**	**-8%**	-2%	1%	1%	0%
80%	**-24%**	0%	2%	-3%	0%	-2%	**-12%**	**-7%**	-2%	0%	1%	0%
90%	**-28%**	-1%	0%	-4%	-1%	-4%	-4%	**-7%**	0%	**6%**	3%	2%
Long Term												
Full Simulation Period[b]	**-18%**	2%	2%	0%	2%	-2%	-3%	-2%	4%	2%	2%	2%
Water Year Types[c]												
Wet (23%)	**-15%**	2%	1%	0%	3%	-2%	0%	-1%	**6%**	2%	3%	5%
Above Normal (24%)	**-17%**	2%	2%	0%	1%	-2%	-2%	-2%	1%	0%	0%	0%
Below Normal (10%)	**-19%**	4%	2%	2%	**5%**	-2%	**-6%**	-4%	-2%	1%	1%	1%
Dry (16%)	**-17%**	3%	3%	1%	3%	0%	**-9%**	**-6%**	-1%	1%	1%	0%
Critical (27%)	**-21%**	2%	2%	-1%	0%	-3%	**-10%**	**-8%**	0%	3%	2%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.10.2 San Joaquin River at Vernalis, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,058	3,088	4,931	11,054	17,256	15,467	14,774	14,101	9,720	6,052	2,996	3,315
20%	2,699	2,813	2,924	4,859	10,259	9,401	10,359	8,202	4,768	2,636	2,599	2,659
30%	2,470	2,631	2,462	3,635	6,228	7,841	8,536	5,452	3,364	1,988	1,896	2,484
40%	2,326	2,448	2,299	2,606	4,252	5,343	7,507	4,488	2,947	1,742	1,675	2,152
50%	2,089	2,342	2,226	2,481	3,420	3,825	6,018	3,916	2,205	1,503	1,499	1,934
60%	1,895	2,218	2,100	2,247	2,681	3,460	4,432	2,913	1,824	1,384	1,415	1,837
70%	1,697	2,100	1,988	2,070	2,379	2,870	3,224	2,493	1,420	1,170	1,322	1,743
80%	1,511	1,954	1,866	1,827	2,153	2,327	2,452	1,994	1,271	1,087	1,211	1,611
90%	1,338	1,753	1,671	1,638	1,931	2,115	1,813	1,564	1,085	941	1,099	1,503
Long Term												
Full Simulation Period[b]	2,200	2,673	3,455	5,082	6,806	7,116	7,330	5,903	4,350	2,668	1,876	2,266
Water Year Types[c]												
Wet (23%)	2,472	3,596	6,642	11,484	16,260	16,444	15,398	14,493	12,009	6,823	3,227	3,582
Above Normal (24%)	2,234	2,469	2,712	4,887	6,916	7,376	8,371	5,184	3,310	1,997	1,976	2,348
Below Normal (10%)	2,052	2,330	3,742	3,561	3,837	4,077	5,974	3,968	2,025	1,478	1,455	1,847
Dry (16%)	2,305	2,644	2,306	2,421	2,623	3,227	3,656	2,625	1,661	1,266	1,362	1,783
Critical (27%)	1,926	2,205	1,952	1,854	2,092	2,228	2,079	1,780	1,114	951	1,077	1,490

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,498	2,953	4,804	11,135	14,596	15,471	14,974	14,174	9,351	5,890	2,796	3,060
20%	3,161	2,777	2,857	4,812	10,143	10,197	10,637	8,318	4,690	2,628	2,589	2,654
30%	2,980	2,527	2,401	3,610	6,118	8,459	8,616	5,534	3,364	1,985	1,904	2,490
40%	2,796	2,395	2,215	2,629	4,232	5,570	7,564	4,609	2,947	1,735	1,666	2,125
50%	2,601	2,219	2,101	2,402	3,420	3,847	6,017	3,925	2,246	1,487	1,488	1,930
60%	2,401	2,169	2,046	2,293	2,683	3,459	4,832	3,062	1,859	1,366	1,403	1,835
70%	2,247	2,059	1,979	2,114	2,305	2,906	3,776	2,699	1,448	1,154	1,307	1,739
80%	1,994	1,951	1,829	1,884	2,150	2,371	2,789	2,153	1,293	1,087	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	1,887	1,678	1,085	885	1,067	1,476
Long Term												
Full Simulation Period[b]	2,672	2,611	3,391	5,070	6,655	7,278	7,528	6,039	4,194	2,622	1,847	2,223
Water Year Types[c]												
Wet (23%)	2,918	3,513	6,545	11,446	15,776	16,863	15,423	14,628	11,335	6,676	3,135	3,416
Above Normal (24%)	2,700	2,416	2,663	4,883	6,881	7,536	8,542	5,264	3,280	1,989	1,975	2,345
Below Normal (10%)	2,538	2,249	3,661	3,507	3,651	4,149	6,337	4,140	2,076	1,463	1,446	1,837
Dry (16%)	2,767	2,569	2,232	2,402	2,549	3,241	3,996	2,805	1,680	1,254	1,347	1,776
Critical (27%)	2,426	2,168	1,915	1,877	2,090	2,288	2,307	1,929	1,115	926	1,060	1,487

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**14%**	-4%	-3%	1%	**-15%**	0%	1%	1%	-4%	-3%	**-7%**	**-8%**
20%	**17%**	-1%	-2%	-1%	-1%	**8%**	3%	1%	-2%	0%	0%	0%
30%	**21%**	-4%	-3%	-1%	-2%	**8%**	1%	2%	0%	0%	0%	0%
40%	**20%**	-2%	-4%	1%	0%	4%	1%	3%	0%	0%	-1%	-1%
50%	**25%**	**-5%**	**-6%**	-3%	0%	1%	0%	0%	2%	-1%	-1%	0%
60%	**27%**	-2%	-3%	2%	0%	0%	**9%**	**5%**	2%	-1%	-1%	0%
70%	**32%**	-2%	0%	2%	-3%	1%	**17%**	**8%**	2%	-1%	-1%	0%
80%	**32%**	0%	-2%	3%	0%	2%	**14%**	**8%**	2%	0%	-1%	0%
90%	**38%**	1%	0%	4%	1%	4%	4%	**7%**	0%	**-6%**	-3%	-2%
Long Term												
Full Simulation Period[b]	**21%**	-2%	-2%	0%	-2%	2%	3%	2%	-4%	-2%	-2%	-2%
Water Year Types[c]												
Wet (23%)	**18%**	-2%	-1%	0%	-3%	3%	0%	1%	**-6%**	-2%	-3%	-5%
Above Normal (24%)	**21%**	-2%	-2%	0%	-1%	2%	2%	2%	-1%	0%	0%	0%
Below Normal (10%)	**24%**	-3%	-2%	-2%	-5%	2%	**6%**	4%	2%	-1%	-1%	-1%
Dry (16%)	**20%**	-3%	-3%	-1%	-3%	0%	**9%**	**7%**	1%	-1%	-1%	0%
Critical (27%)	**26%**	-2%	-2%	1%	0%	3%	**11%**	**8%**	0%	-3%	-2%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.10.3 San Joaquin River at Vernalis, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,058	3,088	4,931	11,054	17,256	15,467	14,774	14,101	9,720	6,052	2,996	3,315
20%	2,699	2,813	2,924	4,859	10,259	9,401	10,359	8,202	4,768	2,636	2,599	2,659
30%	2,470	2,631	2,462	3,635	6,228	7,841	8,536	5,452	3,364	1,988	1,896	2,484
40%	2,326	2,448	2,299	2,606	4,252	5,343	7,507	4,488	2,947	1,742	1,675	2,152
50%	2,089	2,342	2,226	2,481	3,420	3,825	6,018	3,916	2,205	1,503	1,499	1,934
60%	1,895	2,218	2,100	2,247	2,681	3,460	4,432	2,913	1,824	1,384	1,415	1,837
70%	1,697	2,100	1,988	2,070	2,379	2,870	3,224	2,493	1,420	1,170	1,322	1,743
80%	1,511	1,954	1,866	1,827	2,153	2,327	2,452	1,994	1,271	1,087	1,211	1,611
90%	1,338	1,753	1,671	1,638	1,931	2,115	1,813	1,564	1,085	941	1,099	1,503
Long Term												
Full Simulation Period[b]	2,200	2,673	3,455	5,082	6,806	7,116	7,330	5,903	4,350	2,668	1,876	2,266
Water Year Types[c]												
Wet (23%)	2,472	3,596	6,642	11,484	16,260	16,444	15,398	14,493	12,009	6,823	3,227	3,582
Above Normal (24%)	2,234	2,469	2,712	4,887	6,916	7,376	8,371	5,184	3,310	1,997	1,976	2,348
Below Normal (10%)	2,052	2,330	3,742	3,561	3,837	4,077	5,974	3,968	2,025	1,478	1,455	1,847
Dry (16%)	2,305	2,644	2,306	2,421	2,623	3,227	3,656	2,625	1,661	1,266	1,362	1,783
Critical (27%)	1,926	2,205	1,952	1,854	2,092	2,228	2,079	1,780	1,114	951	1,077	1,490

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,023	3,053	4,949	12,089	17,246	15,467	14,936	14,309	10,004	6,473	3,525	3,287
20%	2,667	2,830	2,938	4,833	10,213	9,874	10,251	7,931	4,627	2,495	2,587	2,623
30%	2,494	2,583	2,421	3,540	6,797	7,753	8,532	5,438	2,558	1,926	1,892	2,464
40%	2,328	2,478	2,304	2,753	4,210	5,305	7,580	4,344	2,294	1,722	1,667	2,125
50%	2,137	2,313	2,191	2,439	3,215	3,847	6,112	3,821	1,955	1,506	1,495	1,932
60%	1,956	2,244	2,140	2,236	2,668	3,440	4,501	2,907	1,700	1,361	1,415	1,838
70%	1,782	2,148	2,012	2,088	2,360	2,906	3,355	2,502	1,364	1,164	1,319	1,743
80%	1,609	1,974	1,886	1,824	2,090	2,371	2,581	2,158	1,241	1,026	1,211	1,612
90%	1,466	1,763	1,669	1,639	1,849	2,205	1,936	1,650	1,001	930	1,065	1,477
Long Term												
Full Simulation Period[b]	2,252	2,683	3,501	5,108	6,872	7,145	7,431	5,830	4,009	2,655	1,882	2,271
Water Year Types[c]												
Wet (23%)	2,505	3,604	6,760	11,512	16,584	16,445	15,425	14,237	11,476	6,916	3,267	3,610
Above Normal (24%)	2,310	2,488	2,775	4,925	6,937	7,444	8,476	5,078	2,579	1,910	1,972	2,341
Below Normal (10%)	2,067	2,299	3,711	3,708	3,857	4,057	6,015	3,856	1,865	1,472	1,454	1,834
Dry (16%)	2,346	2,646	2,309	2,419	2,607	3,241	3,785	2,611	1,568	1,253	1,360	1,782
Critical (27%)	1,991	2,227	1,974	1,842	2,043	2,273	2,247	1,874	1,080	912	1,067	1,497

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1%	-1%	0%	**9%**	0%	0%	1%	1%	3%	**7%**	**18%**	-1%
20%	-1%	1%	0%	-1%	0%	**5%**	-1%	-3%	-3%	**-5%**	0%	-1%
30%	1%	-2%	-2%	-3%	**9%**	-1%	0%	0%	**-24%**	-3%	0%	-1%
40%	0%	1%	0%	**6%**	-1%	-1%	1%	-3%	**-22%**	-1%	0%	-1%
50%	2%	-1%	-2%	-2%	**-6%**	1%	2%	-2%	**-11%**	0%	0%	0%
60%	3%	1%	2%	0%	0%	-1%	2%	0%	**-7%**	-2%	0%	0%
70%	5%	2%	1%	1%	-1%	1%	4%	0%	-4%	0%	0%	0%
80%	**6%**	1%	1%	0%	-3%	2%	**5%**	**8%**	-2%	**-6%**	0%	0%
90%	**10%**	1%	0%	0%	-4%	4%	**7%**	**5%**	**-8%**	-1%	-3%	-2%
Long Term												
Full Simulation Period[b]	2%	0%	1%	1%	1%	0%	1%	-1%	**-8%**	0%	0%	0%
Water Year Types[c]												
Wet (23%)	1%	0%	2%	0%	2%	0%	0%	-2%	-4%	1%	1%	1%
Above Normal (24%)	3%	1%	2%	1%	0%	1%	1%	-2%	**-22%**	-4%	0%	0%
Below Normal (10%)	1%	-1%	-1%	4%	1%	0%	1%	-3%	**-8%**	0%	0%	-1%
Dry (16%)	2%	0%	0%	0%	-1%	0%	4%	-1%	**-6%**	-1%	0%	0%
Critical (27%)	3%	1%	1%	-1%	-2%	2%	**8%**	**5%**	-3%	-4%	-1%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.10.4 San Joaquin River at Vernalis, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,058	3,088	4,931	11,054	17,256	15,467	14,774	14,101	9,720	6,052	2,996	3,315
20%	2,699	2,813	2,924	4,859	10,259	9,401	10,359	8,202	4,768	2,636	2,599	2,659
30%	2,470	2,631	2,462	3,635	6,228	7,841	8,536	5,452	3,364	1,988	1,896	2,484
40%	2,326	2,448	2,299	2,606	4,252	5,343	7,507	4,488	2,947	1,742	1,675	2,152
50%	2,089	2,342	2,226	2,481	3,420	3,825	6,018	3,916	2,205	1,503	1,499	1,934
60%	1,895	2,218	2,100	2,247	2,681	3,460	4,432	2,913	1,824	1,384	1,415	1,837
70%	1,697	2,100	1,988	2,070	2,379	2,870	3,224	2,493	1,420	1,170	1,322	1,743
80%	1,511	1,954	1,866	1,827	2,153	2,327	2,452	1,994	1,271	1,087	1,211	1,611
90%	1,338	1,753	1,671	1,638	1,931	2,115	1,813	1,564	1,085	941	1,099	1,503
Long Term												
Full Simulation Period[b]	2,200	2,673	3,455	5,082	6,806	7,116	7,330	5,903	4,350	2,668	1,876	2,266
Water Year Types[c]												
Wet (23%)	2,472	3,596	6,642	11,484	16,260	16,444	15,398	14,493	12,009	6,823	3,227	3,582
Above Normal (24%)	2,234	2,469	2,712	4,887	6,916	7,376	8,371	5,184	3,310	1,997	1,976	2,348
Below Normal (10%)	2,052	2,330	3,742	3,561	3,837	4,077	5,974	3,968	2,025	1,478	1,455	1,847
Dry (16%)	2,305	2,644	2,306	2,421	2,623	3,227	3,656	2,625	1,661	1,266	1,362	1,783
Critical (27%)	1,926	2,205	1,952	1,854	2,092	2,228	2,079	1,780	1,114	951	1,077	1,490

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,495	2,953	4,804	11,129	14,597	15,473	14,976	14,176	9,351	5,773	2,776	3,084
20%	3,146	2,777	2,897	4,811	10,142	9,856	10,265	8,232	4,688	2,628	2,589	2,654
30%	2,938	2,527	2,401	3,610	6,118	8,461	8,576	5,670	3,364	1,985	1,904	2,488
40%	2,763	2,395	2,204	2,629	4,232	5,570	7,567	5,162	2,947	1,735	1,666	2,125
50%	2,588	2,219	2,101	2,402	3,420	3,846	6,110	4,183	2,219	1,484	1,488	1,930
60%	2,385	2,169	2,046	2,289	2,683	3,459	5,047	3,554	1,860	1,365	1,402	1,835
70%	2,196	2,059	1,979	2,083	2,303	2,906	4,317	2,916	1,447	1,155	1,307	1,739
80%	1,988	1,951	1,829	1,883	2,145	2,371	3,100	2,401	1,283	1,052	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	2,461	2,245	1,000	885	1,025	1,431
Long Term												
Full Simulation Period[b]	2,660	2,609	3,371	5,071	6,639	7,235	7,686	6,290	4,174	2,597	1,818	2,213
Water Year Types[c]												
Wet (23%)	2,903	3,513	6,448	11,445	15,743	16,679	15,389	14,666	11,287	6,580	3,020	3,379
Above Normal (24%)	2,691	2,411	2,679	4,897	6,864	7,536	8,487	5,671	3,280	1,989	1,975	2,345
Below Normal (10%)	2,531	2,249	3,661	3,506	3,650	4,149	6,299	4,206	2,062	1,462	1,446	1,837
Dry (16%)	2,750	2,569	2,232	2,400	2,547	3,241	4,420	3,245	1,672	1,253	1,346	1,776
Critical (27%)	2,418	2,163	1,910	1,871	2,078	2,288	2,741	2,177	1,090	916	1,051	1,480

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**14%**	-4%	-3%	1%	**-15%**	0%	1%	1%	-4%	-5%	**-7%**	**-7%**
20%	**17%**	-1%	-1%	-1%	-1%	5%	-1%	0%	-2%	0%	0%	0%
30%	**19%**	-4%	-3%	-1%	-2%	**8%**	0%	4%	0%	0%	0%	0%
40%	**19%**	-2%	-4%	1%	0%	4%	1%	**15%**	0%	0%	-1%	-1%
50%	**24%**	**-5%**	**-6%**	-3%	0%	1%	2%	**7%**	1%	-1%	-1%	0%
60%	**26%**	-2%	-3%	2%	0%	0%	**14%**	**22%**	2%	-1%	-1%	0%
70%	**29%**	-2%	0%	1%	-3%	1%	**34%**	**17%**	2%	-1%	-1%	0%
80%	**32%**	0%	-2%	3%	0%	2%	**26%**	**20%**	1%	-3%	-1%	0%
90%	**38%**	1%	0%	4%	1%	4%	**36%**	**44%**	**-8%**	**-6%**	**-7%**	-5%
Long Term												
Full Simulation Period[b]	**21%**	-2%	-2%	0%	-2%	2%	5%	**7%**	-4%	-3%	-3%	-2%
Water Year Types[c]												
Wet (23%)	**17%**	-2%	-3%	0%	-3%	1%	0%	1%	**-6%**	-4%	**-6%**	**-6%**
Above Normal (24%)	**20%**	-2%	-1%	0%	-1%	2%	1%	**9%**	-1%	0%	0%	0%
Below Normal (10%)	**23%**	-3%	-2%	-2%	-5%	2%	**5%**	**6%**	2%	-1%	-1%	-1%
Dry (16%)	**19%**	-3%	-3%	-1%	-3%	0%	**21%**	**24%**	1%	-1%	-1%	0%
Critical (27%)	**26%**	-2%	-2%	1%	-1%	3%	**32%**	**22%**	-2%	-4%	-2%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.11 Old and Middle River Flow

Table 5C.3.2.11.1 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

No Action Alternative

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	614	893	4,094	6,333	7,834	5,445	4,160	2,848	1,180	763	277	1,161
20%	586	874	2,112	4,323	4,927	4,179	2,834	1,727	609	688	259	1,134
30%	576	825	1,003	3,149	3,624	2,834	1,795	1,200	548	573	246	909
40%	423	657	761	1,793	2,868	2,092	1,504	1,004	465	497	246	656
50%	270	586	611	1,299	2,037	1,676	1,197	843	431	492	246	261
60%	246	368	359	1,050	1,407	1,204	946	731	422	400	246	201
70%	246	268	315	800	1,023	1,061	758	592	408	307	246	179
80%	246	268	278	586	823	783	598	520	383	307	246	179
90%	184	210	277	486	633	662	564	446	334	246	240	179
Long Term												
Full Simulation Period[b]	401	686	1,416	2,720	3,186	2,697	1,812	1,281	648	495	258	565
Water Year Types[c]												
Wet (23%)	520	1,020	2,913	5,509	5,771	5,000	3,288	2,394	1,120	655	273	1,133
Above Normal (24%)	332	742	1,502	3,049	3,807	3,236	1,938	1,201	485	667	251	662
Below Normal (10%)	471	650	582	1,077	2,048	1,113	1,019	789	445	508	254	211
Dry (16%)	341	470	471	981	1,443	1,396	999	680	431	315	257	191
Critical (27%)	253	296	418	723	861	747	559	410	348	249	235	179

Revised Alternative 1

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	373	895	4,048	6,551	8,106	5,795	3,956	2,541	1,141	670	271	259
20%	286	384	2,029	4,469	4,884	4,375	2,589	1,579	658	581	247	240
30%	269	329	947	2,826	3,377	2,686	1,466	952	591	508	246	234
40%	257	291	635	1,561	2,882	2,060	1,215	790	559	492	246	229
50%	246	269	464	1,078	1,898	1,614	859	715	512	461	246	221
60%	246	268	371	829	1,168	1,103	726	675	495	400	246	184
70%	246	268	312	665	918	899	599	560	439	307	246	179
80%	246	268	277	501	720	751	565	533	422	307	236	179
90%	232	208	277	405	596	601	528	437	369	246	215	179
Long Term												
Full Simulation Period[b]	289	508	1,407	2,590	3,140	2,678	1,609	1,159	704	457	252	238
Water Year Types[c]												
Wet (23%)	345	794	3,009	5,453	5,819	5,073	3,004	2,182	1,199	607	271	321
Above Normal (24%)	252	566	1,394	2,837	3,821	3,313	1,620	1,021	569	599	250	223
Below Normal (10%)	294	433	540	878	2,078	1,075	812	715	532	429	254	208
Dry (16%)	267	297	433	821	1,268	1,232	879	627	455	310	244	191
Critical (27%)	241	244	367	640	692	680	525	385	346	247	229	179

Revised Alternative 1 minus No Action Alternative

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-39%**	0%	-1%	3%	3%	**6%**	-5%	**-11%**	-3%	**-12%**	-2%	**-78%**
20%	**-51%**	**-56%**	-4%	3%	-1%	5%	**-9%**	**-9%**	**8%**	**-16%**	-5%	**-79%**
30%	**-53%**	**-60%**	**-6%**	**-10%**	**-7%**	**-5%**	**-18%**	**-21%**	**8%**	**-11%**	0%	**-74%**
40%	**-39%**	**-56%**	**-17%**	**-13%**	0%	-2%	**-19%**	**-21%**	**20%**	-1%	0%	**-65%**
50%	**-9%**	**-54%**	**-24%**	**-17%**	**-7%**	-4%	**-28%**	**-15%**	**19%**	**-6%**	0%	**-15%**
60%	0%	**-27%**	4%	**-21%**	**-17%**	**-8%**	**-23%**	**-8%**	**17%**	0%	0%	**-8%**
70%	0%	0%	-1%	**-17%**	**-10%**	**-15%**	**-21%**	**-5%**	**7%**	0%	0%	0%
80%	0%	0%	0%	**-14%**	**-13%**	-4%	**-6%**	2%	**10%**	0%	-4%	0%
90%	**26%**	-1%	0%	**-17%**	**-6%**	**-9%**	**-6%**	-2%	**11%**	0%	**-10%**	0%
Long Term												
Full Simulation Period[b]	**-28%**	**-26%**	-1%	-5%	-1%	-1%	**-11%**	**-10%**	**9%**	**-8%**	-2%	**-58%**
Water Year Types[c]												
Wet (23%)	**-34%**	**-22%**	3%	-1%	1%	1%	**-9%**	**-9%**	**7%**	**-7%**	-1%	**-72%**
Above Normal (24%)	**-24%**	**-24%**	**-7%**	**-7%**	0%	2%	**-16%**	**-15%**	**17%**	**-10%**	-1%	**-66%**
Below Normal (10%)	**-38%**	**-33%**	**-7%**	**-18%**	1%	-3%	**-20%**	**-9%**	**20%**	**-16%**	0%	-1%
Dry (16%)	**-22%**	**-37%**	**-8%**	**-16%**	**-12%**	**-12%**	**-12%**	**-8%**	**6%**	-2%	-5%	0%
Critical (27%)	-5%	**-18%**	**-12%**	**-12%**	**-20%**	**-9%**	**-6%**	**-6%**	-1%	-1%	-3%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.11.2 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Revised Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	373	895	4,048	6,551	8,106	5,795	3,956	2,541	1,141	670	271	259
20%	286	384	2,029	4,469	4,884	4,375	2,589	1,579	658	581	247	240
30%	269	329	947	2,826	3,377	2,686	1,466	952	591	508	246	234
40%	257	291	635	1,561	2,882	2,060	1,215	790	559	492	246	229
50%	246	269	464	1,078	1,898	1,614	859	715	512	461	246	221
60%	246	268	371	829	1,168	1,103	726	675	495	400	246	184
70%	246	268	312	665	918	899	599	560	439	307	246	179
80%	246	268	277	501	720	751	565	533	422	307	236	179
90%	232	208	277	405	596	601	528	437	369	246	215	179
Long Term												
Full Simulation Period[b]	289	508	1,407	2,590	3,140	2,678	1,609	1,159	704	457	252	238
Water Year Types[c]												
Wet (23%)	345	794	3,009	5,453	5,819	5,073	3,004	2,182	1,199	607	271	321
Above Normal (24%)	252	566	1,394	2,837	3,821	3,313	1,620	1,021	569	599	250	223
Below Normal (10%)	294	433	540	878	2,078	1,075	812	715	532	429	254	208
Dry (16%)	267	297	433	821	1,268	1,232	879	627	455	310	244	191
Critical (27%)	241	244	367	640	692	680	525	385	346	247	229	179

No Action Alternative

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	614	893	4,094	6,333	7,834	5,445	4,160	2,848	1,180	763	277	1,161
20%	586	874	2,112	4,323	4,927	4,179	2,834	1,727	609	688	259	1,134
30%	576	825	1,003	3,149	3,624	2,834	1,795	1,200	548	573	246	909
40%	423	657	761	1,793	2,868	2,092	1,504	1,004	465	497	246	656
50%	270	586	611	1,299	2,037	1,676	1,197	843	431	492	246	261
60%	246	368	359	1,050	1,407	1,204	946	731	422	400	246	201
70%	246	268	315	800	1,023	1,061	758	592	408	307	246	179
80%	246	268	278	586	823	783	598	520	383	307	246	179
90%	184	210	277	486	633	662	564	446	334	246	240	179
Long Term												
Full Simulation Period[b]	401	686	1,416	2,720	3,186	2,697	1,812	1,281	648	495	258	565
Water Year Types[c]												
Wet (23%)	520	1,020	2,913	5,509	5,771	5,000	3,288	2,394	1,120	655	273	1,133
Above Normal (24%)	332	742	1,502	3,049	3,807	3,236	1,938	1,201	485	667	251	662
Below Normal (10%)	471	650	582	1,077	2,048	1,113	1,019	789	445	508	254	211
Dry (16%)	341	470	471	981	1,443	1,396	999	680	431	315	257	191
Critical (27%)	253	296	418	723	861	747	559	410	348	249	235	179

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65%	0%	1%	-3%	-3%	-6%	5%	12%	3%	14%	2%	349%
20%	105%	128%	4%	-3%	1%	-4%	9%	9%	-7%	18%	5%	372%
30%	114%	151%	6%	11%	7%	6%	22%	26%	-7%	13%	0%	288%
40%	64%	126%	20%	15%	0%	2%	24%	27%	-17%	1%	0%	187%
50%	10%	118%	32%	20%	7%	4%	39%	18%	-16%	7%	0%	18%
60%	0%	37%	-3%	27%	20%	9%	30%	8%	-15%	0%	0%	9%
70%	0%	0%	1%	20%	11%	18%	26%	6%	-7%	0%	0%	0%
80%	0%	0%	0%	17%	14%	4%	6%	-2%	-9%	0%	4%	0%
90%	-20%	1%	0%	20%	6%	10%	7%	2%	-10%	0%	11%	0%
Long Term												
Full Simulation Period[b]	39%	35%	1%	5%	1%	1%	13%	11%	-8%	8%	2%	138%
Water Year Types[c]												
Wet (23%)	51%	28%	-3%	1%	-1%	-1%	9%	10%	-7%	8%	1%	253%
Above Normal (24%)	32%	31%	8%	8%	0%	-2%	20%	18%	-15%	11%	1%	197%
Below Normal (10%)	60%	50%	8%	23%	-1%	4%	25%	10%	-16%	18%	0%	2%
Dry (16%)	28%	58%	9%	19%	14%	13%	14%	8%	-5%	2%	5%	0%
Critical (27%)	5%	21%	14%	13%	24%	10%	6%	6%	1%	1%	3%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.11.3 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Revised Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	373	895	4,048	6,551	8,106	5,795	3,956	2,541	1,141	670	271	259
20%	286	384	2,029	4,469	4,884	4,375	2,589	1,579	658	581	247	240
30%	269	329	947	2,826	3,377	2,686	1,466	952	591	508	246	234
40%	257	291	635	1,561	2,882	2,060	1,215	790	559	492	246	229
50%	246	269	464	1,078	1,898	1,614	859	715	512	461	246	221
60%	246	268	371	829	1,168	1,103	726	675	495	400	246	184
70%	246	268	312	665	918	899	599	560	439	307	246	179
80%	246	268	277	501	720	751	565	533	422	307	236	179
90%	232	208	277	405	596	601	528	437	369	246	215	179
Long Term												
Full Simulation Period[b]	289	508	1,407	2,590	3,140	2,678	1,609	1,159	704	457	252	238
Water Year Types[c]												
Wet (23%)	345	794	3,009	5,453	5,819	5,073	3,004	2,182	1,199	607	271	321
Above Normal (24%)	252	566	1,394	2,837	3,821	3,313	1,620	1,021	569	599	250	223
Below Normal (10%)	294	433	540	878	2,078	1,075	812	715	532	429	254	208
Dry (16%)	267	297	433	821	1,268	1,232	879	627	455	310	244	191
Critical (27%)	241	244	367	640	692	680	525	385	346	247	229	179

Alternative 3

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	298	902	4,155	6,646	7,924	5,788	3,812	2,471	1,066	729	265	261
20%	266	389	2,140	4,462	4,802	4,293	2,584	1,383	630	659	246	245
30%	257	319	1,154	3,104	3,795	2,714	1,525	913	572	575	246	235
40%	246	290	722	1,875	3,031	2,137	1,238	750	502	492	246	229
50%	246	268	480	1,398	2,079	1,678	867	704	477	492	246	222
60%	246	268	398	1,061	1,416	1,185	754	630	436	428	246	191
70%	246	268	336	768	1,078	1,032	601	579	422	307	246	179
80%	246	268	277	599	821	789	566	493	409	307	241	179
90%	185	208	277	497	634	654	512	437	351	246	222	179
Long Term												
Full Simulation Period[b]	277	506	1,465	2,772	3,236	2,711	1,617	1,122	656	490	252	240
Water Year Types[c]												
Wet (23%)	333	791	3,116	5,609	5,812	5,020	2,996	2,109	1,118	649	271	319
Above Normal (24%)	242	568	1,461	3,096	3,903	3,292	1,636	960	514	645	246	228
Below Normal (10%)	281	422	564	1,156	2,186	1,120	856	699	457	507	254	221
Dry (16%)	250	297	457	992	1,459	1,384	882	612	445	321	245	191
Critical (27%)	234	243	397	721	859	752	528	397	346	246	230	179

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-20%**	1%	3%	1%	-2%	0%	-4%	-3%	**-7%**	**9%**	-2%	1%
20%	**-7%**	1%	**5%**	0%	-2%	-2%	0%	**-12%**	-4%	**13%**	0%	2%
30%	-5%	-3%	**22%**	**10%**	**12%**	1%	4%	-4%	-3%	**13%**	0%	0%
40%	-4%	0%	**14%**	**20%**	**5%**	4%	2%	-5%	**-10%**	0%	0%	0%
50%	0%	0%	4%	**30%**	**10%**	4%	1%	-2%	**-7%**	**7%**	0%	0%
60%	0%	0%	**7%**	**28%**	**21%**	**7%**	4%	**-7%**	**-12%**	**7%**	0%	3%
70%	0%	0%	**8%**	**15%**	**17%**	**15%**	0%	3%	-4%	0%	0%	0%
80%	0%	0%	0%	**20%**	**14%**	**5%**	0%	**-7%**	-3%	0%	2%	0%
90%	**-20%**	0%	0%	**23%**	**7%**	**9%**	-3%	0%	-5%	0%	3%	0%
Long Term												
Full Simulation Period[b]	-4%	0%	4%	**7%**	3%	1%	0%	-3%	**-7%**	**7%**	0%	1%
Water Year Types[c]												
Wet (23%)	-3%	0%	4%	3%	0%	-1%	0%	-3%	**-7%**	**7%**	0%	0%
Above Normal (24%)	-4%	0%	5%	**9%**	2%	-1%	1%	**-6%**	**-10%**	**8%**	-1%	2%
Below Normal (10%)	-4%	-3%	4%	**32%**	**5%**	4%	**5%**	-2%	**-14%**	**18%**	0%	**6%**
Dry (16%)	**-6%**	0%	**5%**	**21%**	**15%**	**12%**	0%	-2%	-2%	4%	0%	0%
Critical (27%)	-3%	0%	**8%**	**13%**	**24%**	**11%**	1%	3%	0%	-1%	1%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.11.4 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Revised Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	373	895	4,048	6,551	8,106	5,795	3,956	2,541	1,141	670	271	259
20%	286	384	2,029	4,469	4,884	4,375	2,589	1,579	658	581	247	240
30%	269	329	947	2,826	3,377	2,686	1,466	952	591	508	246	234
40%	257	291	635	1,561	2,882	2,060	1,215	790	559	492	246	229
50%	246	269	464	1,078	1,898	1,614	859	715	512	461	246	221
60%	246	268	371	829	1,168	1,103	726	675	495	400	246	184
70%	246	268	312	665	918	899	599	560	439	307	246	179
80%	246	268	277	501	720	751	565	533	422	307	236	179
90%	232	208	277	405	596	601	528	437	369	246	215	179
Long Term												
Full Simulation Period[b]	289	508	1,407	2,590	3,140	2,678	1,609	1,159	704	457	252	238
Water Year Types[c]												
Wet (23%)	345	794	3,009	5,453	5,819	5,073	3,004	2,182	1,199	607	271	321
Above Normal (24%)	252	566	1,394	2,837	3,821	3,313	1,620	1,021	569	599	250	223
Below Normal (10%)	294	433	540	878	2,078	1,075	812	715	532	429	254	208
Dry (16%)	267	297	433	821	1,268	1,232	879	627	455	310	244	191
Critical (27%)	241	244	367	640	692	680	525	385	346	247	229	179

Alternative 5

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	623	960	4,115	6,339	7,831	5,439	4,160	2,849	1,180	767	284	1,161
20%	594	874	2,112	4,319	4,907	4,174	2,807	1,763	606	688	256	1,134
30%	576	830	1,008	3,149	3,653	2,835	1,798	1,237	524	593	246	910
40%	423	660	762	1,785	2,869	2,092	1,542	1,002	453	501	246	651
50%	257	586	616	1,301	2,053	1,666	1,234	873	423	492	246	255
60%	246	369	359	1,048	1,406	1,203	1,028	776	422	400	246	204
70%	246	268	310	800	1,025	1,057	817	629	401	308	246	179
80%	246	268	286	585	823	783	712	561	370	307	246	179
90%	184	211	277	486	633	662	623	462	330	246	230	179
Long Term												
Full Simulation Period[b]	401	690	1,413	2,714	3,184	2,695	1,848	1,312	642	500	257	565
Water Year Types[c]												
Wet (23%)	517	1,020	2,905	5,499	5,773	4,996	3,288	2,411	1,117	667	273	1,132
Above Normal (24%)	334	767	1,505	3,048	3,795	3,232	1,947	1,223	482	668	251	661
Below Normal (10%)	471	650	582	1,075	2,047	1,110	1,061	821	434	513	254	214
Dry (16%)	342	471	467	980	1,444	1,396	1,081	720	423	316	256	191
Critical (27%)	254	296	418	714	856	747	621	462	346	249	233	179

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**67%**	**7%**	2%	-3%	-3%	**-6%**	**5%**	**12%**	3%	**14%**	5%	**349%**
20%	**108%**	**128%**	4%	-3%	0%	-5%	**8%**	**12%**	**-8%**	**18%**	4%	**372%**
30%	**114%**	**152%**	**7%**	**11%**	**8%**	**6%**	**23%**	**30%**	**-11%**	**17%**	0%	**288%**
40%	**64%**	**127%**	**20%**	**14%**	0%	2%	**27%**	**27%**	**-19%**	2%	0%	**185%**
50%	5%	**118%**	**33%**	**21%**	**8%**	3%	**44%**	**22%**	**-17%**	**7%**	0%	**16%**
60%	0%	**38%**	-3%	**26%**	**20%**	**9%**	**42%**	**15%**	**-15%**	0%	0%	**10%**
70%	0%	0%	-1%	**20%**	**12%**	**18%**	**36%**	**12%**	**-9%**	0%	0%	0%
80%	0%	0%	3%	**17%**	**14%**	4%	**26%**	**5%**	**-12%**	0%	4%	0%
90%	**-20%**	1%	0%	**20%**	**6%**	**10%**	**18%**	**6%**	**-11%**	0%	**7%**	0%
Long Term												
Full Simulation Period[b]	**39%**	**36%**	0%	5%	1%	1%	**15%**	**13%**	**-9%**	**9%**	2%	**138%**
Water Year Types[c]												
Wet (23%)	**50%**	**28%**	-3%	1%	-1%	-2%	**9%**	**11%**	**-7%**	**10%**	1%	**253%**
Above Normal (24%)	**32%**	**36%**	**8%**	**7%**	-1%	-2%	**20%**	**20%**	**-15%**	**11%**	1%	**197%**
Below Normal (10%)	**60%**	**50%**	**8%**	**22%**	-1%	3%	**31%**	**15%**	**-18%**	**20%**	0%	3%
Dry (16%)	**28%**	**59%**	**8%**	**19%**	**14%**	**13%**	**23%**	**15%**	**-7%**	2%	5%	0%
Critical (27%)	**5%**	**21%**	**14%**	**12%**	**24%**	**10%**	**18%**	**20%**	0%	1%	2%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.12 X2 Position

Table 5C.3.2.12.1 X2, End of Month Position

No Action Alternative

Statistic	End of Month Position (km)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.4	93.6	90.8	84.0	77.3	75.9	78.1	81.0	83.1	86.5	89.7	91.9
20%	91.8	91.4	87.6	82.3	71.7	72.8	73.6	79.3	81.8	84.9	88.1	91.1
30%	91.6	90.9	83.9	79.8	67.2	65.7	70.0	77.3	81.0	84.3	87.5	90.6
40%	91.1	88.1	82.5	73.5	64.0	64.5	66.7	72.3	80.2	82.4	86.2	90.1
50%	89.7	81.1	81.1	71.2	58.5	59.9	64.7	69.9	77.8	80.6	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.2	58.0	60.9	66.3	76.6	78.1	84.6	81.0
70%	74.1	75.1	72.0	55.1	51.9	53.9	58.0	63.8	73.4	77.4	84.1	74.1
80%	74.0	74.0	62.2	51.3	49.4	50.6	53.8	59.1	69.8	76.8	82.7	74.0
90%	74.0	74.0	52.8	49.4	48.2	49.0	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	64.2	68.8	75.9	80.4	85.4	83.9
Water Year Types[c]												
Wet (23%)	80.6	76.8	63.7	54.8	51.2	53.1	55.1	58.4	67.4	74.9	82.7	73.9
Above Normal (24%)	86.9	82.4	75.1	61.0	54.9	55.3	59.1	65.2	75.3	77.9	83.1	74.7
Below Normal (10%)	80.4	80.3	80.4	74.6	64.3	66.9	69.0	72.9	79.1	81.1	85.1	89.3
Dry (16%)	85.6	85.5	84.5	77.7	67.7	65.4	68.8	74.5	80.1	84.5	87.6	90.5
Critical (27%)	90.4	90.7	88.2	82.0	75.3	74.6	77.7	82.3	85.2	87.9	90.3	92.1

Revised Alternative 1

Statistic	End of Month Position (km)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.3	92.5	91.0	87.3	80.4	78.2	78.5	81.5	83.5	86.6	90.0	92.1
20%	91.8	91.3	90.6	85.9	75.6	73.5	75.2	79.6	81.6	84.8	88.5	91.4
30%	91.2	91.0	89.5	83.6	72.1	68.3	73.3	78.6	80.5	84.3	88.0	90.8
40%	91.0	90.8	88.7	78.9	66.2	66.6	69.7	75.4	78.6	82.1	86.5	90.1
50%	90.6	90.3	86.8	75.6	61.5	61.7	67.3	72.9	77.9	81.1	85.6	89.4
60%	90.2	89.6	82.5	67.7	55.7	57.8	64.2	70.3	76.1	78.9	84.7	89.0
70%	90.0	89.0	77.0	56.3	52.4	54.0	59.9	66.0	74.4	78.2	84.4	88.6
80%	89.6	88.0	65.9	51.9	49.4	50.4	54.7	60.2	71.4	77.3	84.1	88.4
90%	87.3	79.7	53.3	49.5	48.2	48.8	50.4	54.6	64.1	74.8	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.4	62.8	62.3	65.9	70.6	75.8	80.7	86.0	89.3
Water Year Types[c]												
Wet (23%)	88.1	83.7	66.3	55.7	51.6	53.0	56.4	60.3	67.3	75.3	83.3	86.6
Above Normal (24%)	91.0	87.1	79.1	63.6	56.1	55.2	61.1	67.9	75.0	78.2	83.8	81.9
Below Normal (10%)	89.6	87.3	84.5	78.8	66.0	67.3	71.3	74.9	78.2	81.4	86.0	89.7
Dry (16%)	90.7	90.4	87.9	81.1	70.7	67.6	70.8	76.0	80.2	84.4	88.0	90.8
Critical (27%)	91.9	92.1	90.0	84.0	78.5	76.8	78.8	83.3	85.7	88.2	90.6	92.4

Revised Alternative 1 minus No Action Alternative

Statistic	End of Month Position (km)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1.1	-1.1	0.2	3.3	3.1	2.3	0.4	0.5	0.3	0.1	0.3	0.1
20%	0.0	-0.1	2.9	3.6	3.9	0.7	1.6	0.3	-0.1	-0.1	0.4	0.3
30%	-0.4	0.1	5.5	3.8	4.8	2.6	3.2	1.3	-0.5	0.1	0.5	0.3
40%	-0.1	2.7	6.2	5.4	2.2	2.1	3.0	3.1	-1.6	-0.2	0.3	0.0
50%	0.9	9.2	5.7	4.4	3.0	1.8	2.6	3.0	0.2	0.5	0.8	0.9
60%	9.2	8.6	2.7	3.3	0.6	-0.2	3.3	4.0	-0.6	0.8	0.1	8.0
70%	15.9	13.9	5.1	1.1	0.5	0.1	1.9	2.2	1.0	0.8	0.3	14.6
80%	15.6	13.9	3.6	0.6	0.0	-0.2	0.9	1.1	1.5	0.5	1.4	14.4
90%	13.3	5.8	0.5	0.1	0.0	-0.2	0.5	1.2	0.7	0.2	0.7	13.8
Long Term												
Full Simulation Period[b]	5.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Water Year Types[c]												
Wet (23%)	7.5	6.9	2.7	1.0	0.4	0.0	1.3	1.9	0.0	0.4	0.5	12.7
Above Normal (24%)	4.1	4.6	4.0	2.7	1.2	0.0	2.0	2.7	-0.3	0.3	0.7	7.2
Below Normal (10%)	9.2	7.0	4.1	4.2	1.7	0.5	2.3	2.0	-0.9	0.3	0.9	0.4
Dry (16%)	5.1	4.9	3.5	3.4	3.1	2.2	2.0	1.5	0.1	-0.1	0.4	0.3
Critical (27%)	1.4	1.4	1.8	2.1	3.2	2.2	1.2	1.0	0.5	0.3	0.3	0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.12.2 X2, End of Month Position

Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.3	92.5	91.0	87.3	80.4	78.2	78.5	81.5	83.5	86.6	90.0	92.1
20%	91.8	91.3	90.6	85.9	75.6	73.5	75.2	79.6	81.6	84.8	88.5	91.4
30%	91.2	91.0	89.5	83.6	72.1	68.3	73.3	78.6	80.5	84.3	88.0	90.8
40%	91.0	90.8	88.7	78.9	66.2	66.6	69.7	75.4	78.6	82.1	86.5	90.1
50%	90.6	90.3	86.8	75.6	61.5	61.7	67.3	72.9	77.9	81.1	85.6	89.4
60%	90.2	89.6	82.5	67.7	55.7	57.8	64.2	70.3	76.1	78.9	84.7	89.0
70%	90.0	89.0	77.0	56.3	52.4	54.0	59.9	66.0	74.4	78.2	84.4	88.6
80%	89.6	88.0	65.9	51.9	49.4	50.4	54.7	60.2	71.4	77.3	84.1	88.4
90%	87.3	79.7	53.3	49.5	48.2	48.8	50.4	54.6	64.1	74.8	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.4	62.8	62.3	65.9	70.6	75.8	80.7	86.0	89.3
Water Year Types[c]												
Wet (23%)	88.1	83.7	66.3	55.7	51.6	53.0	56.4	60.3	67.3	75.3	83.3	86.6
Above Normal (24%)	91.0	87.1	79.1	63.6	56.1	55.2	61.1	67.9	75.0	78.2	83.8	81.9
Below Normal (10%)	89.6	87.3	84.5	78.8	66.0	67.3	71.3	74.9	78.2	81.4	86.0	89.7
Dry (16%)	90.7	90.4	87.9	81.1	70.7	67.6	70.8	76.0	80.2	84.4	88.0	90.8
Critical (27%)	91.9	92.1	90.0	84.0	78.5	76.8	78.8	83.3	85.7	88.2	90.6	92.4

No Action Alternative

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.4	93.6	90.8	84.0	77.3	75.9	78.1	81.0	83.1	86.5	89.7	91.9
20%	91.8	91.4	87.6	82.3	71.7	72.8	73.6	79.3	81.8	84.9	88.1	91.1
30%	91.6	90.9	83.9	79.8	67.2	65.7	70.0	77.3	81.0	84.3	87.5	90.6
40%	91.1	88.1	82.5	73.5	64.0	64.5	66.7	72.3	80.2	82.4	86.2	90.1
50%	89.7	81.1	81.1	71.2	58.5	59.9	64.7	69.9	77.8	80.6	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.2	58.0	60.9	66.3	76.6	78.1	84.6	81.0
70%	74.1	75.1	72.0	55.1	51.9	53.9	58.0	63.8	73.4	77.4	84.1	74.1
80%	74.0	74.0	62.2	51.3	49.4	50.6	53.8	59.1	69.8	76.8	82.7	74.0
90%	74.0	74.0	52.8	49.4	48.2	49.0	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	64.2	68.8	75.9	80.4	85.4	83.9
Water Year Types[c]												
Wet (23%)	80.6	76.8	63.7	54.8	51.2	53.1	55.1	58.4	67.4	74.9	82.7	73.9
Above Normal (24%)	86.9	82.4	75.1	61.0	54.9	55.3	59.1	65.2	75.3	77.9	83.1	74.7
Below Normal (10%)	80.4	80.3	80.4	74.6	64.3	66.9	69.0	72.9	79.1	81.1	85.1	89.3
Dry (16%)	85.6	85.5	84.5	77.7	67.7	65.4	68.8	74.5	80.1	84.5	87.6	90.5
Critical (27%)	90.4	90.7	88.2	82.0	75.3	74.6	77.7	82.3	85.2	87.9	90.3	92.1

No Action Alternative minus Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.1	1.1	-0.2	-3.3	-3.1	-2.3	-0.4	-0.5	-0.3	-0.1	-0.3	-0.1
20%	0.0	0.1	-2.9	-3.6	-3.9	-0.7	-1.6	-0.3	0.1	0.1	-0.4	-0.3
30%	0.4	-0.1	-5.5	-3.8	-4.8	-2.6	-3.2	-1.3	0.5	-0.1	-0.5	-0.3
40%	0.1	-2.7	-6.2	-5.4	-2.2	-2.1	-3.0	-3.1	1.6	0.2	-0.3	0.0
50%	-0.9	-9.2	-5.7	-4.4	-3.0	-1.8	-2.6	-3.0	-0.2	-0.5	-0.8	-0.9
60%	-9.2	-8.6	-2.7	-3.3	-0.6	0.2	-3.3	-4.0	0.6	-0.8	-0.1	-8.0
70%	-15.9	-13.9	-5.1	-1.1	-0.5	-0.1	-1.9	-2.2	-1.0	-0.8	-0.3	-14.6
80%	-15.6	-13.9	-3.6	-0.6	0.0	0.2	-0.9	-1.1	-1.5	-0.5	-1.4	-14.4
90%	-13.3	-5.8	-0.5	-0.1	0.0	0.2	-0.5	-1.2	-0.7	-0.2	-0.7	-13.8
Long Term												
Full Simulation Period[b]	-5.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Water Year Types[c]												
Wet (23%)	-7.5	-6.9	-2.7	-1.0	-0.4	0.0	-1.3	-1.9	0.0	-0.4	-0.5	-12.7
Above Normal (24%)	-4.1	-4.6	-4.0	-2.7	-1.2	0.0	-2.0	-2.7	0.3	-0.3	-0.7	-7.2
Below Normal (10%)	-9.2	-7.0	-4.1	-4.2	-1.7	-0.5	-2.3	-2.0	0.9	-0.3	-0.9	-0.4
Dry (16%)	-5.1	-4.9	-3.5	-3.4	-3.1	-2.2	-2.0	-1.5	-0.1	0.1	-0.4	-0.3
Critical (27%)	-1.4	-1.4	-1.8	-2.1	-3.2	-2.2	-1.2	-1.0	-0.5	-0.3	-0.3	-0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.12.3 X2, End of Month Position

Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.3	92.5	91.0	87.3	80.4	78.2	78.5	81.5	83.5	86.6	90.0	92.1
20%	91.8	91.3	90.6	85.9	75.6	73.5	75.2	79.6	81.6	84.8	88.5	91.4
30%	91.2	91.0	89.5	83.6	72.1	68.3	73.3	78.6	80.5	84.3	88.0	90.8
40%	91.0	90.8	88.7	78.9	66.2	66.6	69.7	75.4	78.6	82.1	86.5	90.1
50%	90.6	90.3	86.8	75.6	61.5	61.7	67.3	72.9	77.9	81.1	85.6	89.4
60%	90.2	89.6	82.5	67.7	55.7	57.8	64.2	70.3	76.1	78.9	84.7	89.0
70%	90.0	89.0	77.0	56.3	52.4	54.0	59.9	66.0	74.4	78.2	84.4	88.6
80%	89.6	88.0	65.9	51.9	49.4	50.4	54.7	60.2	71.4	77.3	84.1	88.4
90%	87.3	79.7	53.3	49.5	48.2	48.8	50.4	54.6	64.1	74.8	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.4	62.8	62.3	65.9	70.6	75.8	80.7	86.0	89.3
Water Year Types[c]												
Wet (23%)	88.1	83.7	66.3	55.7	51.6	53.0	56.4	60.3	67.3	75.3	83.3	86.6
Above Normal (24%)	91.0	87.1	79.1	63.6	56.1	55.2	61.1	67.9	75.0	78.2	83.8	81.9
Below Normal (10%)	89.6	87.3	84.5	78.8	66.0	67.3	71.3	74.9	78.2	81.4	86.0	89.7
Dry (16%)	90.7	90.4	87.9	81.1	70.7	67.6	70.8	76.0	80.2	84.4	88.0	90.8
Critical (27%)	91.9	92.1	90.0	84.0	78.5	76.8	78.8	83.3	85.7	88.2	90.6	92.4

Alternative 3

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.2	93.6	90.8	86.1	77.8	75.8	78.2	81.5	83.2	86.4	90.0	92.2
20%	91.9	91.5	90.5	83.7	71.7	72.5	74.6	79.6	82.0	84.8	88.4	91.3
30%	91.6	91.1	89.4	81.5	67.6	66.1	71.3	78.4	81.0	84.3	87.7	90.8
40%	91.2	90.8	88.5	74.8	64.1	64.5	69.7	75.6	80.3	81.7	86.0	89.8
50%	90.7	90.6	86.7	71.8	58.8	60.0	67.3	73.1	78.8	80.7	84.9	89.3
60%	90.2	89.8	82.6	64.6	54.4	58.0	63.6	70.4	77.1	78.4	84.6	88.7
70%	89.9	89.0	74.2	55.1	52.2	54.4	59.9	66.8	75.1	77.8	84.2	88.4
80%	89.6	87.9	65.1	51.2	49.3	50.4	54.8	61.7	71.8	77.1	83.2	88.2
90%	88.2	79.6	53.0	49.5	48.1	48.8	50.4	54.8	64.9	75.0	82.4	87.6
Long Term												
Full Simulation Period[b]	90.1	87.8	79.0	68.5	61.2	61.4	65.5	70.8	76.5	80.5	85.6	89.1
Water Year Types[c]												
Wet (23%)	88.1	83.9	65.6	54.8	51.3	53.1	56.5	60.8	68.3	75.1	82.9	86.6
Above Normal (24%)	91.2	87.2	78.3	61.5	54.9	55.0	60.9	68.4	76.2	78.0	83.4	81.8
Below Normal (10%)	89.9	87.7	84.4	75.4	64.0	66.6	70.5	74.9	79.6	81.0	85.1	89.2
Dry (16%)	90.8	90.6	87.6	78.8	67.9	65.5	69.9	76.0	80.4	84.3	87.8	90.8
Critical (27%)	92.1	92.2	89.5	82.7	75.6	74.6	78.1	82.8	85.4	88.0	90.5	92.3

Alternative 3 minus Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.9	1.0	-0.1	-1.2	-2.6	-2.4	-0.3	-0.1	-0.3	-0.2	0.0	0.2
20%	0.2	0.1	-0.1	-2.2	-3.9	-1.0	-0.6	0.0	0.3	0.0	-0.2	-0.1
30%	0.4	0.1	0.0	-2.1	-4.5	-2.2	-2.0	-0.1	0.5	0.0	-0.3	-0.1
40%	0.2	0.1	-0.2	-4.1	-2.0	-2.1	0.0	0.3	1.8	-0.4	-0.5	-0.3
50%	0.1	0.3	-0.1	-3.8	-2.6	-1.7	0.0	0.3	0.9	-0.4	-0.7	-0.1
60%	0.0	0.2	0.2	-3.1	-1.4	0.2	-0.5	0.1	1.1	-0.6	-0.1	-0.3
70%	-0.1	0.0	-2.8	-1.1	-0.2	0.3	-0.1	0.8	0.7	-0.5	-0.1	-0.2
80%	0.0	-0.1	-0.8	-0.7	0.0	0.1	0.1	1.5	0.4	-0.2	-0.8	-0.2
90%	0.8	-0.1	-0.3	0.0	-0.1	0.0	0.0	0.2	0.7	0.1	-0.6	-0.1
Long Term												
Full Simulation Period[b]	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Year Types[c]												
Wet (23%)	0.0	0.2	-0.7	-0.9	-0.3	0.1	0.0	0.5	1.0	-0.2	-0.4	-0.1
Above Normal (24%)	0.3	0.1	-0.8	-2.2	-1.2	-0.2	-0.2	0.5	1.1	-0.2	-0.4	-0.2
Below Normal (10%)	0.4	0.4	-0.1	-3.4	-2.0	-0.8	-0.7	0.0	1.4	-0.4	-0.8	-0.5
Dry (16%)	0.1	0.2	-0.3	-2.3	-2.8	-2.1	-0.8	0.0	0.3	-0.1	-0.2	-0.1
Critical (27%)	0.2	0.2	-0.5	-1.4	-2.8	-2.2	-0.8	-0.4	-0.3	-0.2	-0.1	-0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.12.4 X2, End of Month Position

Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.3	92.5	91.0	87.3	80.4	78.2	78.5	81.5	83.5	86.6	90.0	92.1
20%	91.8	91.3	90.6	85.9	75.6	73.5	75.2	79.6	81.6	84.8	88.5	91.4
30%	91.2	91.0	89.5	83.6	72.1	68.3	73.3	78.6	80.5	84.3	88.0	90.8
40%	91.0	90.8	88.7	78.9	66.2	66.6	69.7	75.4	78.6	82.1	86.5	90.1
50%	90.6	90.3	86.8	75.6	61.5	61.7	67.3	72.9	77.9	81.1	85.6	89.4
60%	90.2	89.6	82.5	67.7	55.7	57.8	64.2	70.3	76.1	78.9	84.7	89.0
70%	90.0	89.0	77.0	56.3	52.4	54.0	59.9	66.0	74.4	78.2	84.4	88.6
80%	89.6	88.0	65.9	51.9	49.4	50.4	54.7	60.2	71.4	77.3	84.1	88.4
90%	87.3	79.7	53.3	49.5	48.2	48.8	50.4	54.6	64.1	74.8	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.4	62.8	62.3	65.9	70.6	75.8	80.7	86.0	89.3
Water Year Types[c]												
Wet (23%)	88.1	83.7	66.3	55.7	51.6	53.0	56.4	60.3	67.3	75.3	83.3	86.6
Above Normal (24%)	91.0	87.1	79.1	63.6	56.1	55.2	61.1	67.9	75.0	78.2	83.8	81.9
Below Normal (10%)	89.6	87.3	84.5	78.8	66.0	67.3	71.3	74.9	78.2	81.4	86.0	89.7
Dry (16%)	90.7	90.4	87.9	81.1	70.7	67.6	70.8	76.0	80.2	84.4	88.0	90.8
Critical (27%)	91.9	92.1	90.0	84.0	78.5	76.8	78.8	83.3	85.7	88.2	90.6	92.4

Alternative 5

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.2	93.3	90.8	84.0	77.3	75.9	77.2	79.1	83.1	86.5	89.6	91.9
20%	91.9	91.5	87.6	82.3	71.7	72.8	72.5	77.9	81.4	84.9	88.1	91.1
30%	91.6	91.0	83.9	79.8	67.2	65.8	69.5	75.8	81.0	84.2	87.4	90.5
40%	91.0	88.0	82.4	73.5	63.9	64.5	66.4	71.5	79.6	82.3	86.1	90.0
50%	89.5	81.1	81.2	71.2	58.5	59.9	64.2	69.3	77.8	80.7	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.1	57.9	60.8	66.4	76.6	78.2	84.6	81.0
70%	74.1	75.1	71.9	55.1	51.9	53.9	58.0	63.7	73.4	77.5	84.1	74.1
80%	74.0	74.1	62.2	51.3	49.4	50.6	53.5	58.9	69.8	76.8	82.6	74.0
90%	74.0	73.9	53.0	49.4	48.2	49.1	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	63.8	68.2	75.7	80.4	85.3	83.8
Water Year Types[c]												
Wet (23%)	80.6	76.9	63.7	54.7	51.2	53.1	55.1	58.2	67.3	74.7	82.6	73.9
Above Normal (24%)	86.8	82.1	74.9	60.9	54.9	55.3	59.0	65.0	75.2	77.9	83.1	74.8
Below Normal (10%)	80.4	80.3	80.4	74.6	64.3	66.9	68.4	72.1	79.0	81.1	85.0	89.3
Dry (16%)	85.6	85.5	84.5	77.7	67.7	65.4	67.9	73.4	79.8	84.5	87.6	90.5
Critical (27%)	90.4	90.6	88.2	82.1	75.5	74.6	76.7	80.8	84.5	87.7	90.2	92.1

Alternative 5 minus Revised Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.9	0.8	-0.1	-3.2	-3.1	-2.3	-1.4	-2.4	-0.4	-0.1	-0.4	-0.1
20%	0.1	0.1	-3.0	-3.6	-3.9	-0.7	-2.7	-1.6	-0.2	0.1	-0.4	-0.3
30%	0.4	0.0	-5.5	-3.8	-4.8	-2.5	-3.7	-2.7	0.4	-0.2	-0.6	-0.3
40%	0.0	-2.7	-6.3	-5.4	-2.2	-2.0	-3.3	-3.8	1.0	0.2	-0.5	0.0
50%	-1.0	-9.2	-5.6	-4.4	-3.0	-1.8	-3.1	-3.5	-0.2	-0.4	-0.8	-0.9
60%	-9.2	-8.6	-2.7	-3.3	-0.6	0.1	-3.4	-3.9	0.5	-0.8	-0.1	-8.0
70%	-15.9	-13.9	-5.2	-1.2	-0.5	-0.1	-1.9	-2.3	-1.0	-0.7	-0.3	-14.6
80%	-15.6	-13.9	-3.7	-0.6	0.0	0.2	-1.2	-1.3	-1.6	-0.5	-1.5	-14.4
90%	-13.4	-5.8	-0.3	-0.1	0.0	0.3	-0.5	-1.2	-0.7	-0.2	-0.8	-13.8
Long Term												
Full Simulation Period[b]	-5.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Water Year Types[c]												
Wet (23%)	-7.5	-6.8	-2.6	-1.0	-0.4	0.0	-1.3	-2.0	0.0	-0.5	-0.6	-12.7
Above Normal (24%)	-4.1	-5.0	-4.2	-2.7	-1.2	0.0	-2.1	-2.9	0.2	-0.3	-0.7	-7.2
Below Normal (10%)	-9.2	-7.0	-4.1	-4.2	-1.7	-0.5	-2.8	-2.8	0.7	-0.4	-1.0	-0.5
Dry (16%)	-5.1	-4.9	-3.4	-3.4	-3.1	-2.2	-2.9	-2.6	-0.4	0.1	-0.4	-0.3
Critical (27%)	-1.5	-1.4	-1.8	-1.9	-3.0	-2.1	-2.1	-2.5	-1.3	-0.5	-0.4	-0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.13 Delta Outflow

Table 5C.3.2.13.1 Old and Middle River, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,764	-3,724	-3,812	-2,823	-666	-969	3,205	2,797	-1,150	-4,130	-2,453	-3,775
20%	-4,076	-4,560	-4,673	-2,823	-1,771	-1,394	2,207	1,304	-1,570	-6,849	-4,032	-5,147
30%	-4,613	-5,156	-5,244	-3,355	-2,823	-2,738	1,632	561	-3,500	-7,647	-5,770	-6,006
40%	-4,820	-5,627	-5,871	-4,392	-3,314	-3,500	1,268	108	-3,500	-8,888	-7,996	-7,621
50%	-5,328	-6,320	-5,871	-4,710	-3,781	-3,500	612	-182	-3,500	-9,376	-9,956	-9,000
60%	-5,589	-6,564	-5,871	-5,000	-4,878	-4,568	-102	-483	-4,487	-9,746	-10,630	-9,256
70%	-6,253	-7,101	-7,413	-5,000	-5,000	-5,000	-448	-632	-5,000	-10,301	-10,737	-9,653
80%	-6,560	-8,185	-9,537	-5,000	-5,000	-5,000	-995	-1,129	-5,000	-10,602	-10,853	-9,884
90%	-7,404	-9,995	-9,681	-5,000	-5,000	-5,000	-1,247	-1,414	-5,000	-11,108	-11,083	-10,032
Long Term												
Full Simulation Period[b]	-5,476	-6,380	-6,228	-3,535	-2,905	-2,690	919	310	-3,577	-8,496	-7,975	-7,706
Water Year Types[c]												
Wet (23%)	-5,847	-7,229	-5,526	-1,900	-1,991	-1,552	3,110	2,011	-4,274	-8,957	-10,532	-9,358
Above Normal (24%)	-5,525	-6,801	-6,850	-3,699	-3,161	-4,176	1,196	412	-4,525	-9,151	-10,873	-9,542
Below Normal (10%)	-5,488	-6,749	-7,669	-4,380	-3,477	-3,919	165	-316	-3,445	-10,539	-9,624	-8,178
Dry (16%)	-5,440	-5,953	-6,676	-4,621	-3,573	-3,072	-670	-906	-3,350	-8,900	-4,745	-6,453
Critical (27%)	-4,671	-4,458	-5,006	-4,314	-2,968	-1,780	-786	-887	-1,539	-4,242	-3,168	-3,793

Revised Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,213	-4,272	-3,968	-2,854	-824	-160	-2,064	-1,634	-2,112	-3,246	-3,105	-3,732
20%	-3,760	-5,330	-6,081	-4,745	-2,550	-1,248	-3,157	-2,833	-2,809	-5,223	-4,480	-5,069
30%	-4,915	-6,950	-6,787	-6,261	-4,041	-3,273	-4,168	-3,932	-3,314	-6,217	-5,712	-6,231
40%	-6,258	-7,438	-7,871	-7,379	-5,843	-4,024	-4,920	-4,714	-3,970	-7,181	-7,103	-8,305
50%	-7,278	-8,669	-8,406	-8,289	-6,429	-4,945	-5,965	-5,153	-5,163	-8,021	-8,109	-9,168
60%	-8,071	-9,221	-9,004	-8,845	-7,331	-5,427	-6,654	-5,526	-5,795	-8,941	-9,175	-9,647
70%	-9,158	-9,706	-9,347	-9,257	-8,356	-6,217	-7,180	-5,865	-6,068	-9,445	-9,861	-9,963
80%	-9,924	-9,988	-9,503	-9,553	-8,878	-6,633	-7,672	-6,382	-6,578	-9,955	-10,366	-10,089
90%	-10,188	-10,067	-9,686	-9,795	-9,516	-7,604	-8,033	-7,291	-7,016	-10,733	-10,684	-10,164
Long Term												
Full Simulation Period[b]	-6,927	-7,828	-7,459	-6,669	-4,977	-3,763	-5,451	-4,776	-4,655	-7,520	-7,457	-7,883
Water Year Types[c]												
Wet (23%)	-7,970	-9,125	-7,749	-4,991	-2,581	-1,121	-7,036	-6,345	-4,153	-8,364	-9,546	-9,646
Above Normal (24%)	-6,298	-7,886	-7,998	-8,337	-6,176	-5,288	-7,062	-5,723	-5,991	-8,950	-9,951	-9,844
Below Normal (10%)	-8,002	-8,896	-8,199	-8,551	-5,299	-5,515	-5,435	-4,867	-6,643	-10,133	-8,149	-8,185
Dry (16%)	-6,476	-7,093	-7,256	-7,215	-6,840	-5,661	-4,200	-3,734	-4,589	-6,796	-5,151	-6,536
Critical (27%)	-5,117	-5,206	-5,908	-5,862	-5,471	-3,067	-2,373	-2,005	-2,584	-2,950	-3,436	-3,906

Revised Alternative 1 minus No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	552	-548	-156	-32	-158	809	-5270	-4431	-961	883	-652	43
20%	317	-770	-1409	-1922	-779	146	-5363	-4137	-1239	1626	-448	78
30%	-302	-1794	-1543	-2906	-1218	-535	-5800	-4493	186	1429	57	-226
40%	-1437	-1812	-2000	-2986	-2529	-524	-6188	-4822	-470	1707	893	-684
50%	-1950	-2349	-2535	-3579	-2648	-1445	-6576	-4971	-1663	1355	1847	-168
60%	-2482	-2657	-3133	-3845	-2453	-860	-6552	-5043	-1309	805	1455	-391
70%	-2905	-2605	-1934	-4257	-3356	-1217	-6732	-5233	-1068	856	876	-311
80%	-3363	-1803	34	-4553	-3878	-1633	-6677	-5253	-1578	647	488	-205
90%	-2784	-71	-5	-4795	-4516	-2604	-6786	-5876	-2016	375	399	-133
Long Term												
Full Simulation Period[b]	-1451	-1448	-1232	-3134	-2072	-1073	-6371	-5086	-1078	976	518	-177
Water Year Types[c]												
Wet (23%)	-2123	-1895	-2223	-3091	-590	432	-10146	-8356	121	593	986	-288
Above Normal (24%)	-773	-1085	-1148	-4637	-3015	-1112	-8258	-6134	-1466	200	922	-302
Below Normal (10%)	-2514	-2147	-530	-4171	-1823	-1597	-5601	-4551	-3198	407	1476	-7
Dry (16%)	-1036	-1140	-581	-2594	-3267	-2588	-3531	-2828	-1240	2104	-406	-84
Critical (27%)	-446	-748	-902	-1548	-2503	-1287	-1587	-1118	-1045	1291	-268	-113

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.13.2 Old and Middle River, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,213	-4,272	-3,968	-2,854	-824	-160	-2,064	-1,634	-2,112	-3,246	-3,105	-3,732
20%	-3,760	-5,330	-6,081	-4,745	-2,550	-1,248	-3,157	-2,833	-2,809	-5,223	-4,480	-5,069
30%	-4,915	-6,950	-6,787	-6,261	-4,041	-3,273	-4,168	-3,932	-3,314	-6,217	-5,712	-6,231
40%	-6,258	-7,438	-7,871	-7,379	-5,843	-4,024	-4,920	-4,714	-3,970	-7,181	-7,103	-8,305
50%	-7,278	-8,669	-8,406	-8,289	-6,429	-4,945	-5,965	-5,153	-5,163	-8,021	-8,109	-9,168
60%	-8,071	-9,221	-9,004	-8,845	-7,331	-5,427	-6,654	-5,526	-5,795	-8,941	-9,175	-9,647
70%	-9,158	-9,706	-9,347	-9,257	-8,356	-6,217	-7,180	-5,865	-6,068	-9,445	-9,861	-9,963
80%	-9,924	-9,988	-9,503	-9,553	-8,878	-6,633	-7,672	-6,382	-6,578	-9,955	-10,366	-10,089
90%	-10,188	-10,067	-9,686	-9,795	-9,516	-7,604	-8,033	-7,291	-7,016	-10,733	-10,684	-10,164
Long Term												
Full Simulation Period[b]	-6,927	-7,828	-7,459	-6,669	-4,977	-3,763	-5,451	-4,776	-4,655	-7,520	-7,457	-7,883
Water Year Types[c]												
Wet (23%)	-7,970	-9,125	-7,749	-4,991	-2,581	-1,121	-7,036	-6,345	-4,153	-8,364	-9,546	-9,646
Above Normal (24%)	-6,298	-7,886	-7,998	-8,337	-6,176	-5,288	-7,062	-5,723	-5,991	-8,950	-9,951	-9,844
Below Normal (10%)	-8,002	-8,896	-8,199	-8,551	-5,299	-5,515	-5,435	-4,867	-6,643	-10,133	-8,149	-8,185
Dry (16%)	-6,476	-7,093	-7,256	-7,215	-6,840	-5,661	-4,200	-3,734	-4,589	-6,796	-5,151	-6,536
Critical (27%)	-5,117	-5,206	-5,908	-5,862	-5,471	-3,067	-2,373	-2,005	-2,584	-2,950	-3,436	-3,906

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,764	-3,724	-3,812	-2,823	-666	-969	3,205	2,797	-1,150	-4,130	-2,453	-3,775
20%	-4,076	-4,560	-4,673	-2,823	-1,771	-1,394	2,207	1,304	-1,570	-6,849	-4,032	-5,147
30%	-4,613	-5,156	-5,244	-3,355	-2,823	-2,738	1,632	561	-3,500	-7,647	-5,770	-6,006
40%	-4,820	-5,627	-5,871	-4,392	-3,314	-3,500	1,268	108	-3,500	-8,888	-7,996	-7,621
50%	-5,328	-6,320	-5,871	-4,710	-3,781	-3,500	612	-182	-3,500	-9,376	-9,956	-9,000
60%	-5,589	-6,564	-5,871	-5,000	-4,878	-4,568	-102	-483	-4,487	-9,746	-10,630	-9,256
70%	-6,253	-7,101	-7,413	-5,000	-5,000	-5,000	-448	-632	-5,000	-10,301	-10,737	-9,653
80%	-6,560	-8,185	-9,537	-5,000	-5,000	-5,000	-995	-1,129	-5,000	-10,602	-10,853	-9,884
90%	-7,404	-9,995	-9,681	-5,000	-5,000	-5,000	-1,247	-1,414	-5,000	-11,108	-11,083	-10,032
Long Term												
Full Simulation Period[b]	-5,476	-6,380	-6,228	-3,535	-2,905	-2,690	919	310	-3,577	-8,496	-7,975	-7,706
Water Year Types[c]												
Wet (23%)	-5,847	-7,229	-5,526	-1,900	-1,991	-1,552	3,110	2,011	-4,274	-8,957	-10,532	-9,358
Above Normal (24%)	-5,525	-6,801	-6,850	-3,699	-3,161	-4,176	1,196	412	-4,525	-9,151	-10,873	-9,542
Below Normal (10%)	-5,488	-6,749	-7,669	-4,380	-3,477	-3,919	165	-316	-3,445	-10,539	-9,624	-8,178
Dry (16%)	-5,440	-5,953	-6,676	-4,621	-3,573	-3,072	-670	-906	-3,350	-8,900	-4,745	-6,453
Critical (27%)	-4,671	-4,458	-5,006	-4,314	-2,968	-1,780	-786	-887	-1,539	-4,242	-3,168	-3,793

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-552**	548	156	32	158	**-809**	5270	4431	961	**-883**	652	**-43**
20%	**-317**	770	1409	1922	779	**-146**	5363	4137	1239	**-1626**	448	**-78**
30%	302	1794	1543	2906	1218	535	5800	4493	**-186**	**-1429**	**-57**	226
40%	1437	1812	2000	2986	2529	524	6188	4822	470	**-1707**	**-893**	684
50%	1950	2349	2535	3579	2648	1445	6576	4971	1663	**-1355**	**-1847**	168
60%	2482	2657	3133	3845	2453	860	6552	5043	1309	**-805**	**-1455**	391
70%	2905	2605	1934	4257	3356	1217	6732	5233	1068	**-856**	**-876**	311
80%	3363	1803	**-34**	4553	3878	1633	6677	5253	1578	**-647**	**-488**	205
90%	2784	71	5	4795	4516	2604	6786	5876	2016	**-375**	**-399**	133
Long Term												
Full Simulation Period[b]	1451	1448	1232	3134	2072	1073	6371	5086	1078	**-976**	**-518**	177
Water Year Types[c]												
Wet (23%)	2123	1895	2223	3091	590	**-432**	10146	8356	**-121**	**-593**	**-986**	288
Above Normal (24%)	773	1085	1148	4637	3015	1112	8258	6134	1466	**-200**	**-922**	302
Below Normal (10%)	2514	2147	530	4171	1823	1597	5601	4551	3198	**-407**	**-1476**	7
Dry (16%)	1036	1140	581	2594	3267	2588	3531	2828	1240	**-2104**	406	84
Critical (27%)	446	748	902	1548	2503	1287	1587	1118	1045	**-1291**	268	113

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.13.3 Old and Middle River, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,213	-4,272	-3,968	-2,854	-824	-160	-2,064	-1,634	-2,112	-3,246	-3,105	-3,732
20%	-3,760	-5,330	-6,081	-4,745	-2,550	-1,248	-3,157	-2,833	-2,809	-5,223	-4,480	-5,069
30%	-4,915	-6,950	-6,787	-6,261	-4,041	-3,273	-4,168	-3,932	-3,314	-6,217	-5,712	-6,231
40%	-6,258	-7,438	-7,871	-7,379	-5,843	-4,024	-4,920	-4,714	-3,970	-7,181	-7,103	-8,305
50%	-7,278	-8,669	-8,406	-8,289	-6,429	-4,945	-5,965	-5,153	-5,163	-8,021	-8,109	-9,168
60%	-8,071	-9,221	-9,004	-8,845	-7,331	-5,427	-6,654	-5,526	-5,795	-8,941	-9,175	-9,647
70%	-9,158	-9,706	-9,347	-9,257	-8,356	-6,217	-7,180	-5,865	-6,068	-9,445	-9,861	-9,963
80%	-9,924	-9,988	-9,503	-9,553	-8,878	-6,633	-7,672	-6,382	-6,578	-9,955	-10,366	-10,089
90%	-10,188	-10,067	-9,686	-9,795	-9,516	-7,604	-8,033	-7,291	-7,016	-10,733	-10,684	-10,164
Long Term												
Full Simulation Period[b]	-6,927	-7,828	-7,459	-6,669	-4,977	-3,763	-5,451	-4,776	-4,655	-7,520	-7,457	-7,883
Water Year Types[c]												
Wet (23%)	-7,970	-9,125	-7,749	-4,991	-2,581	-1,121	-7,036	-6,345	-4,153	-8,364	-9,546	-9,646
Above Normal (24%)	-6,298	-7,886	-7,998	-8,337	-6,176	-5,288	-7,062	-5,723	-5,991	-8,950	-9,951	-9,844
Below Normal (10%)	-8,002	-8,896	-8,199	-8,551	-5,299	-5,515	-5,435	-4,867	-6,643	-10,133	-8,149	-8,185
Dry (16%)	-6,476	-7,093	-7,256	-7,215	-6,840	-5,661	-4,200	-3,734	-4,589	-6,796	-5,151	-6,536
Critical (27%)	-5,117	-5,206	-5,908	-5,862	-5,471	-3,067	-2,373	-2,005	-2,584	-2,950	-3,436	-3,906

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,471	-4,154	-3,935	-2,361	-447	-819	405	-673	-2,098	-3,660	-3,007	-3,495
20%	-4,101	-5,233	-5,184	-3,500	-1,896	-1,347	-946	-1,150	-4,287	-5,775	-4,278	-5,225
30%	-4,803	-6,947	-6,403	-3,500	-2,838	-2,283	-1,200	-1,150	-4,625	-7,093	-6,258	-6,437
40%	-5,638	-7,541	-6,403	-3,500	-3,500	-3,500	-2,086	-2,560	-5,017	-8,012	-7,669	-8,402
50%	-7,049	-8,326	-6,403	-5,000	-3,500	-3,500	-2,787	-3,326	-5,526	-8,990	-9,396	-9,192
60%	-8,252	-9,400	-6,811	-5,000	-4,273	-3,616	-3,368	-3,500	-5,750	-9,549	-9,845	-9,680
70%	-8,982	-9,810	-7,677	-5,000	-5,000	-5,061	-3,526	-3,500	-5,750	-10,046	-10,212	-9,842
80%	-9,734	-9,990	-8,823	-5,000	-5,621	-6,252	-4,031	-4,451	-6,160	-10,767	-10,624	-10,044
90%	-10,085	-10,084	-9,552	-6,976	-7,500	-7,499	-4,474	-5,149	-7,011	-11,148	-10,797	-10,177
Long Term												
Full Simulation Period[b]	-6,888	-7,771	-6,494	-3,764	-3,283	-3,072	-2,176	-2,623	-4,997	-8,112	-7,831	-7,917
Water Year Types[c]												
Wet (23%)	-7,965	-9,052	-5,964	-2,522	-2,581	-1,646	-1,367	-2,399	-5,476	-8,581	-9,731	-9,555
Above Normal (24%)	-6,452	-8,078	-6,997	-3,789	-4,137	-5,220	-3,630	-4,226	-5,981	-9,160	-10,444	-9,839
Below Normal (10%)	-7,685	-8,790	-7,868	-4,451	-3,689	-4,765	-2,676	-2,885	-5,409	-10,929	-10,032	-8,880
Dry (16%)	-6,546	-7,086	-6,848	-4,588	-3,582	-3,358	-2,517	-2,670	-4,927	-8,172	-5,079	-6,457
Critical (27%)	-4,869	-4,871	-5,252	-4,429	-3,011	-1,804	-1,328	-1,054	-2,628	-3,280	-3,450	-3,839

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-258	118	33	494	377	-660	2469	960	13	-413	98	237
20%	-341	98	897	1245	654	-99	2210	1682	-1478	-551	202	-156
30%	112	3	384	2761	1203	990	2968	2782	-1311	-875	-546	-205
40%	620	-103	1468	3879	2343	524	2834	2153	-1047	-831	-566	-97
50%	229	344	2002	3289	2929	1445	3178	1827	-363	-969	-1287	-24
60%	-181	-178	2193	3845	3058	1811	3287	2026	45	-608	-670	-33
70%	176	-104	1669	4257	3356	1156	3654	2365	318	-601	-351	121
80%	189	-2	680	4553	3257	381	3641	1930	418	-812	-258	45
90%	103	-17	134	2819	2016	105	3558	2141	5	-414	-113	-13
Long Term												
Full Simulation Period[b]	39	57	965	2904	1694	692	3275	2153	-341	-593	-374	-34
Water Year Types[c]												
Wet (23%)	5	73	1785	2469	0	-525	5669	3946	-1323	-217	-185	91
Above Normal (24%)	-154	-192	1001	4548	2039	68	3432	1497	10	-210	-493	5
Below Normal (10%)	317	106	331	4100	1611	751	2760	1982	1234	-796	-1883	-695
Dry (16%)	-70	7	408	2627	3257	2303	1684	1064	-337	-1376	72	80
Critical (27%)	248	334	656	1433	2460	1263	1046	951	-44	-330	-14	68

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.13.4 Old and Middle River, Monthly Flow

Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,213	-4,272	-3,968	-2,854	-824	-160	-2,064	-1,634	-2,112	-3,246	-3,105	-3,732
20%	-3,760	-5,330	-6,081	-4,745	-2,550	-1,248	-3,157	-2,833	-2,809	-5,223	-4,480	-5,069
30%	-4,915	-6,950	-6,787	-6,261	-4,041	-3,273	-4,168	-3,932	-3,314	-6,217	-5,712	-6,231
40%	-6,258	-7,438	-7,871	-7,379	-5,843	-4,024	-4,920	-4,714	-3,970	-7,181	-7,103	-8,305
50%	-7,278	-8,669	-8,406	-8,289	-6,429	-4,945	-5,965	-5,153	-5,163	-8,021	-8,109	-9,168
60%	-8,071	-9,221	-9,004	-8,845	-7,331	-5,427	-6,654	-5,526	-5,795	-8,941	-9,175	-9,647
70%	-9,158	-9,706	-9,347	-9,257	-8,356	-6,217	-7,180	-5,865	-6,068	-9,445	-9,861	-9,963
80%	-9,924	-9,988	-9,503	-9,553	-8,878	-6,633	-7,672	-6,382	-6,578	-9,955	-10,366	-10,089
90%	-10,188	-10,067	-9,686	-9,795	-9,516	-7,604	-8,033	-7,291	-7,016	-10,733	-10,684	-10,164
Long Term												
Full Simulation Period[b]	-6,927	-7,828	-7,459	-6,669	-4,977	-3,763	-5,451	-4,776	-4,655	-7,520	-7,457	-7,883
Water Year Types[c]												
Wet (23%)	-7,970	-9,125	-7,749	-4,991	-2,581	-1,121	-7,036	-6,345	-4,153	-8,364	-9,546	-9,646
Above Normal (24%)	-6,298	-7,886	-7,998	-8,337	-6,176	-5,288	-7,062	-5,723	-5,991	-8,950	-9,951	-9,844
Below Normal (10%)	-8,002	-8,896	-8,199	-8,551	-5,299	-5,515	-5,435	-4,867	-6,643	-10,133	-8,149	-8,185
Dry (16%)	-6,476	-7,093	-7,256	-7,215	-6,840	-5,661	-4,200	-3,734	-4,589	-6,796	-5,151	-6,536
Critical (27%)	-5,117	-5,206	-5,908	-5,862	-5,471	-3,067	-2,373	-2,005	-2,584	-2,950	-3,436	-3,906

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,722	-3,722	-3,826	-2,823	-641	-965	3,206	2,797	-1,150	-4,455	-3,295	-3,913
20%	-4,102	-4,558	-4,737	-2,823	-1,771	-1,394	2,134	1,335	-2,319	-6,620	-4,451	-5,247
30%	-4,583	-5,162	-5,150	-3,355	-2,820	-2,738	1,566	712	-3,500	-8,001	-6,361	-6,304
40%	-4,858	-5,603	-5,871	-4,378	-3,267	-3,500	1,270	568	-3,500	-9,172	-8,612	-7,552
50%	-5,145	-6,098	-5,871	-4,710	-3,513	-3,500	623	381	-3,500	-9,522	-10,244	-8,864
60%	-5,368	-6,494	-5,871	-5,000	-4,878	-4,568	381	381	-4,467	-9,822	-10,615	-9,232
70%	-6,237	-7,087	-7,453	-5,000	-5,000	-5,000	381	381	-5,000	-10,430	-10,756	-9,654
80%	-6,583	-8,086	-9,466	-5,000	-5,000	-5,000	381	381	-5,000	-10,694	-10,844	-9,915
90%	-7,355	-9,871	-9,681	-5,000	-5,000	-5,000	381	381	-5,000	-11,168	-11,076	-10,031
Long Term												
Full Simulation Period[b]	-5,443	-6,337	-6,246	-3,551	-2,904	-2,710	1,482	1,034	-3,631	-8,687	-8,239	-7,714
Water Year Types[c]												
Wet (23%)	-5,812	-7,354	-5,572	-1,900	-1,926	-1,598	3,122	2,182	-4,275	-8,965	-10,573	-9,193
Above Normal (24%)	-5,543	-6,368	-6,838	-3,716	-3,222	-4,174	1,292	780	-4,521	-9,187	-10,817	-9,491
Below Normal (10%)	-5,418	-6,748	-7,637	-4,380	-3,554	-3,971	718	468	-3,444	-10,623	-9,770	-8,460
Dry (16%)	-5,380	-5,893	-6,731	-4,620	-3,578	-3,074	565	453	-3,523	-9,446	-5,313	-6,571
Critical (27%)	-4,661	-4,461	-4,983	-4,409	-2,957	-1,770	363	310	-1,623	-4,501	-3,860	-3,805

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-510**	550	142	32	183	**-805**	5270	4431	961	**-1209**	**-189**	**-181**
20%	**-343**	773	1345	1922	779	**-146**	5291	4168	490	**-1397**	30	**-178**
30%	332	1788	1637	2906	1221	535	5733	4644	**-186**	**-1784**	**-648**	**-73**
40%	1400	1835	2000	3001	2576	524	6190	5281	470	**-1991**	**-1509**	752
50%	2132	2571	2535	3579	2916	1445	6588	5534	1663	**-1501**	**-2135**	305
60%	2703	2727	3133	3845	2453	860	7036	5907	1328	**-881**	**-1440**	415
70%	2921	2619	1893	4257	3356	1217	7562	6247	1068	**-985**	**-895**	309
80%	3340	1902	37	4553	3878	1633	8053	6763	1578	**-739**	**-478**	174
90%	2833	196	5	4795	4516	2604	8414	7672	2016	**-435**	**-392**	133
Long Term												
Full Simulation Period[b]	1485	1492	1213	3118	2074	1053	6933	5811	1025	**-1167**	**-782**	169
Water Year Types[c]												
Wet (23%)	2158	1771	2177	3091	655	**-477**	10158	8528	**-122**	**-602**	**-1027**	453
Above Normal (24%)	755	1517	1160	4621	2954	1114	8354	6502	1470	**-236**	**-866**	353
Below Normal (10%)	2585	2148	562	4171	1746	1544	6153	5335	3199	**-490**	**-1621**	**-275**
Dry (16%)	1096	1200	525	2595	3262	2587	4766	4187	1067	**-2650**	**-162**	**-34**
Critical (27%)	456	744	925	1453	2514	1297	2737	2315	962	**-1551**	**-424**	102

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.14 Exports through Jones and Banks Pumping Plants

Table 5C.3.2.14.1 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

No Action Alternative

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	517	671	721	604	611	675	242	240	509	714	724	671
20%	454	572	717	490	532	617	181	151	359	708	724	664
30%	434	479	685	427	448	508	158	127	340	694	715	651
40%	400	443	558	419	409	479	138	104	318	667	707	623
50%	370	415	494	406	380	424	128	97	253	634	692	604
60%	336	381	477	396	363	349	121	92	207	588	519	509
70%	310	347	454	377	325	312	113	92	192	501	371	410
80%	286	302	379	321	267	283	104	92	150	444	240	335
90%	250	251	335	280	165	159	89	92	43	232	141	243
Long Term												
Full Simulation Period[b]	378	430	527	426	395	423	154	140	276	558	521	514
Water Year Types[c]												
Wet (23%)	410	497	564	513	537	594	204	207	445	669	717	638
Above Normal (24%)	376	450	562	406	401	496	130	105	315	587	709	628
Below Normal (10%)	386	456	590	387	354	394	134	100	209	657	622	542
Dry (16%)	374	398	510	392	315	318	153	126	194	541	296	426
Critical (27%)	314	293	384	349	250	179	93	90	64	223	176	242

Revised Alternative 1

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	738	803	722	707	530	515	526	694	694	671
20%	681	671	723	769	684	619	508	417	450	694	694	671
30%	626	659	719	746	666	563	481	369	429	691	694	671
40%	551	622	717	738	602	542	433	351	408	609	621	668
50%	488	590	683	724	552	512	391	314	392	555	529	628
60%	426	502	609	645	512	489	336	277	353	474	468	549
70%	327	460	554	562	461	459	264	228	316	390	364	408
80%	249	349	492	499	393	373	189	169	176	306	281	338
90%	196	286	382	371	309	301	109	81	128	146	183	228
Long Term												
Full Simulation Period[b]	467	524	613	638	528	491	355	302	349	494	487	526
Water Year Types[c]												
Wet (23%)	544	620	717	724	587	554	485	428	451	632	653	660
Above Normal (24%)	419	520	641	719	590	568	455	359	411	574	647	648
Below Normal (10%)	544	595	629	670	471	498	342	296	413	631	525	543
Dry (16%)	434	472	550	567	516	491	262	221	273	401	323	431
Critical (27%)	336	340	444	451	405	264	135	110	132	138	195	249

Revised Alternative 1 minus No Action Alternative

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	34%	0%	2%	33%	18%	5%	119%	115%	3%	-3%	-4%	0%
20%	50%	17%	1%	57%	29%	0%	180%	176%	25%	-2%	-4%	1%
30%	44%	38%	5%	75%	49%	11%	205%	189%	26%	0%	-3%	3%
40%	38%	40%	28%	76%	47%	13%	214%	238%	28%	-9%	-12%	7%
50%	32%	42%	38%	79%	45%	21%	205%	225%	55%	-12%	-24%	4%
60%	27%	32%	28%	63%	41%	40%	179%	201%	70%	-19%	-10%	8%
70%	5%	33%	22%	49%	42%	47%	133%	147%	64%	-22%	-2%	0%
80%	-13%	16%	30%	55%	48%	32%	82%	83%	17%	-31%	17%	1%
90%	-22%	14%	14%	33%	88%	89%	22%	-12%	200%	-37%	30%	-6%
Long Term												
Full Simulation Period[b]	23%	22%	16%	50%	34%	16%	130%	117%	27%	-11%	-6%	2%
Water Year Types[c]												
Wet (23%)	33%	25%	27%	41%	9%	-7%	138%	107%	1%	-5%	-9%	3%
Above Normal (24%)	11%	16%	14%	77%	47%	14%	249%	241%	30%	-2%	-9%	3%
Below Normal (10%)	41%	30%	7%	73%	33%	27%	154%	196%	98%	-4%	-16%	0%
Dry (16%)	16%	19%	8%	45%	64%	55%	71%	76%	41%	-26%	9%	1%
Critical (27%)	7%	16%	16%	29%	62%	47%	46%	23%	105%	-38%	11%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.14.2 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Revised Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	738	803	722	707	530	515	526	694	694	671
20%	681	671	723	769	684	619	508	417	450	694	694	671
30%	626	659	719	746	666	563	481	369	429	691	694	671
40%	551	622	717	738	602	542	433	351	408	609	621	668
50%	488	590	683	724	552	512	391	314	392	555	529	628
60%	426	502	609	645	512	489	336	277	353	474	468	549
70%	327	460	554	562	461	459	264	228	316	390	364	408
80%	249	349	492	499	393	373	189	169	176	306	281	338
90%	196	286	382	371	309	301	109	81	128	146	183	228
Long Term												
Full Simulation Period[b]	467	524	613	638	528	491	355	302	349	494	487	526
Water Year Types[c]												
Wet (23%)	544	620	717	724	587	554	485	428	451	632	653	660
Above Normal (24%)	419	520	641	719	590	568	455	359	411	574	647	648
Below Normal (10%)	544	595	629	670	471	498	342	296	413	631	525	543
Dry (16%)	434	472	550	567	516	491	262	221	273	401	323	431
Critical (27%)	336	340	444	451	405	264	135	110	132	138	195	249

No Action Alternative

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	517	671	721	604	611	675	242	240	509	714	724	671
20%	454	572	717	490	532	617	181	151	359	708	724	664
30%	434	479	685	427	448	508	158	127	340	694	715	651
40%	400	443	558	419	409	479	138	104	318	667	707	623
50%	370	415	494	406	380	424	128	97	253	634	692	604
60%	336	381	477	396	363	349	121	92	207	588	519	509
70%	310	347	454	377	325	312	113	92	192	501	371	410
80%	286	302	379	321	267	283	104	92	150	444	240	335
90%	250	251	335	280	165	159	89	92	43	232	141	243
Long Term												
Full Simulation Period[b]	378	430	527	426	395	423	154	140	276	558	521	514
Water Year Types[c]												
Wet (23%)	410	497	564	513	537	594	204	207	445	669	717	638
Above Normal (24%)	376	450	562	406	401	496	130	105	315	587	709	628
Below Normal (10%)	386	456	590	387	354	394	134	100	209	657	622	542
Dry (16%)	374	398	510	392	315	318	153	126	194	541	296	426
Critical (27%)	314	293	384	349	250	179	93	90	64	223	176	242

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-25%	0%	-2%	-25%	-15%	-5%	-54%	-53%	-3%	3%	4%	0%
20%	-33%	-15%	-1%	-36%	-22%	0%	-64%	-64%	-20%	2%	4%	-1%
30%	-31%	-27%	-5%	-43%	-33%	-10%	-67%	-65%	-21%	0%	3%	-3%
40%	-27%	-29%	-22%	-43%	-32%	-12%	-68%	-70%	-22%	9%	14%	-7%
50%	-24%	-30%	-28%	-44%	-31%	-17%	-67%	-69%	-36%	14%	31%	-4%
60%	-21%	-24%	-22%	-39%	-29%	-29%	-64%	-67%	-41%	24%	11%	-7%
70%	-5%	-25%	-18%	-33%	-30%	-32%	-57%	-60%	-39%	29%	2%	0%
80%	15%	-14%	-23%	-36%	-32%	-24%	-45%	-45%	-14%	45%	-14%	-1%
90%	28%	-12%	-12%	-25%	-47%	-47%	-18%	14%	-67%	58%	-23%	7%
Long Term												
Full Simulation Period[b]	-19%	-18%	-14%	-33%	-25%	-14%	-57%	-54%	-21%	13%	7%	-2%
Water Year Types[c]												
Wet (23%)	-25%	-20%	-21%	-29%	-8%	7%	-58%	-52%	-1%	6%	10%	-3%
Above Normal (24%)	-10%	-13%	-12%	-44%	-32%	-13%	-71%	-71%	-23%	2%	9%	-3%
Below Normal (10%)	-29%	-23%	-6%	-42%	-25%	-21%	-61%	-66%	-49%	4%	19%	0%
Dry (16%)	-14%	-16%	-7%	-31%	-39%	-35%	-41%	-43%	-29%	35%	-8%	-1%
Critical (27%)	-6%	-14%	-14%	-23%	-38%	-32%	-31%	-18%	-51%	62%	-10%	-3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.14.3 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Revised Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	694	671	738	803	722	707	530	515	526	694	694	671
20%	681	671	723	769	684	619	508	417	450	694	694	671
30%	626	659	719	746	666	563	481	369	429	691	694	671
40%	551	622	717	738	602	542	433	351	408	609	621	668
50%	488	590	683	724	552	512	391	314	392	555	529	628
60%	426	502	609	645	512	489	336	277	353	474	468	549
70%	327	460	554	562	461	459	264	228	316	390	364	408
80%	249	349	492	499	393	373	189	169	176	306	281	338
90%	196	286	382	371	309	301	109	81	128	146	183	228
Long Term												
Full Simulation Period[b]	467	524	613	638	528	491	355	302	349	494	487	526
Water Year Types[c]												
Wet (23%)	544	620	717	724	587	554	485	428	451	632	653	660
Above Normal (24%)	419	520	641	719	590	568	455	359	411	574	647	648
Below Normal (10%)	544	595	629	670	471	498	342	296	413	631	525	543
Dry (16%)	434	472	550	567	516	491	262	221	273	401	323	431
Critical (27%)	336	340	444	451	405	264	135	110	132	138	195	249

Alternative 3

	Monthly Export Volume (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	694	671	718	653	725	722	547	563	667	694	694	671
20%	673	671	691	565	603	622	510	496	461	694	694	671
30%	627	652	628	440	524	577	465	452	399	694	694	671
40%	552	627	583	422	449	532	437	386	373	680	694	657
50%	476	571	546	411	393	460	369	329	355	628	624	640
60%	382	501	523	395	365	351	320	281	338	566	502	572
70%	322	467	505	377	320	316	255	230	311	448	396	417
80%	265	346	479	328	264	288	187	124	252	382	268	344
90%	218	276	378	304	202	159	124	102	138	190	170	228
Long Term												
Full Simulation Period[b]	465	520	549	442	426	445	353	330	362	533	513	529
Water Year Types[c]												
Wet (23%)	544	615	601	559	594	589	494	490	519	648	667	654
Above Normal (24%)	430	533	574	414	469	566	441	413	397	586	680	647
Below Normal (10%)	524	587	607	394	373	448	312	266	330	683	650	588
Dry (16%)	440	471	523	389	314	337	270	242	292	492	318	426
Critical (27%)	321	319	401	355	251	180	127	100	131	158	196	245

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	0%	0%	-3%	**-19%**	0%	2%	3%	**9%**	**27%**	0%	0%	0%
20%	-1%	0%	-4%	**-26%**	**-12%**	1%	0%	**19%**	2%	0%	0%	0%
30%	0%	-1%	**-13%**	**-41%**	**-21%**	2%	-3%	**22%**	**-7%**	0%	0%	0%
40%	0%	1%	**-19%**	**-43%**	**-25%**	-2%	1%	**10%**	**-9%**	**12%**	**12%**	-2%
50%	-3%	-3%	**-20%**	**-43%**	**-29%**	**-10%**	**-6%**	5%	**-9%**	**13%**	**18%**	2%
60%	**-10%**	0%	**-14%**	**-39%**	**-29%**	**-28%**	-5%	1%	-4%	**20%**	**7%**	4%
70%	-2%	1%	**-9%**	**-33%**	**-31%**	**-31%**	-3%	1%	-1%	**15%**	**9%**	2%
80%	**7%**	-1%	-3%	**-34%**	**-33%**	**-23%**	-1%	**-26%**	**43%**	**25%**	-5%	2%
90%	**11%**	-3%	-1%	**-18%**	**-35%**	**-47%**	**14%**	**25%**	**7%**	**30%**	**-7%**	0%
Long Term												
Full Simulation Period[b]	0%	-1%	**-10%**	**-31%**	**-19%**	**-9%**	-1%	**9%**	4%	**8%**	**5%**	0%
Water Year Types[c]												
Wet (23%)	0%	-1%	**-16%**	**-23%**	1%	**6%**	2%	**14%**	**15%**	2%	2%	-1%
Above Normal (24%)	3%	2%	**-10%**	**-42%**	**-21%**	0%	-3%	**15%**	-3%	2%	**5%**	0%
Below Normal (10%)	-4%	-1%	-3%	**-41%**	**-21%**	**-10%**	**-9%**	**-10%**	**-20%**	**8%**	**24%**	**8%**
Dry (16%)	1%	0%	-5%	**-31%**	**-39%**	**-31%**	3%	**9%**	**7%**	**23%**	-1%	-1%
Critical (27%)	-4%	**-6%**	**-10%**	**-21%**	**-38%**	**-32%**	**-6%**	**-9%**	0%	**15%**	0%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.14.4 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Revised Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	738	803	722	707	530	515	526	694	694	671
20%	681	671	723	769	684	619	508	417	450	694	694	671
30%	626	659	719	746	666	563	481	369	429	691	694	671
40%	551	622	717	738	602	542	433	351	408	609	621	668
50%	488	590	683	724	552	512	391	314	392	555	529	628
60%	426	502	609	645	512	489	336	277	353	474	468	549
70%	327	460	554	562	461	459	264	228	316	390	364	408
80%	249	349	492	499	393	373	189	169	176	306	281	338
90%	196	286	382	371	309	301	109	81	128	146	183	228
Long Term												
Full Simulation Period[b]	467	524	613	638	528	491	355	302	349	494	487	526
Water Year Types[c]												
Wet (23%)	544	620	717	724	587	554	485	428	451	632	653	660
Above Normal (24%)	419	520	641	719	590	568	455	359	411	574	647	648
Below Normal (10%)	544	595	629	670	471	498	342	296	413	631	525	543
Dry (16%)	434	472	550	567	516	491	262	221	273	401	323	431
Critical (27%)	336	340	444	451	405	264	135	110	132	138	195	249

Alternative 5

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	514	671	721	604	613	677	223	218	509	714	724	671
20%	454	553	717	490	528	612	165	127	359	709	724	662
30%	429	479	685	427	448	528	134	91	340	696	715	648
40%	378	443	558	419	416	479	122	83	318	678	705	626
50%	360	408	496	405	380	424	111	71	251	646	693	598
60%	334	375	481	396	363	349	97	50	207	606	571	508
70%	311	347	452	377	323	312	80	38	193	568	401	415
80%	289	302	387	319	267	283	45	23	178	445	278	347
90%	245	250	337	280	165	159	30	7	42	271	192	254
Long Term												
Full Simulation Period[b]	376	427	528	427	394	423	122	99	279	570	538	514
Water Year Types[c]												
Wet (23%)	408	505	564	514	532	592	202	202	444	667	718	627
Above Normal (24%)	376	423	561	407	405	496	127	92	315	590	705	625
Below Normal (10%)	381	456	588	387	359	397	103	55	208	663	632	561
Dry (16%)	370	394	513	392	315	318	80	41	205	577	333	433
Critical (27%)	313	293	382	355	249	179	34	20	69	239	222	243

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-26%	0%	-2%	-25%	-15%	-4%	-58%	-58%	-3%	3%	4%	0%
20%	-33%	-18%	-1%	-36%	-23%	-1%	-67%	-70%	-20%	2%	4%	-1%
30%	-32%	-27%	-5%	-43%	-33%	-6%	-72%	-75%	-21%	1%	3%	-4%
40%	-31%	-29%	-22%	-43%	-31%	-12%	-72%	-77%	-22%	11%	14%	-6%
50%	-26%	-31%	-27%	-44%	-31%	-17%	-72%	-77%	-36%	16%	31%	-5%
60%	-22%	-25%	-21%	-39%	-29%	-29%	-71%	-82%	-41%	28%	22%	-8%
70%	-5%	-25%	-18%	-33%	-30%	-32%	-70%	-84%	-39%	46%	10%	2%
80%	16%	-14%	-21%	-36%	-32%	-24%	-76%	-86%	1%	45%	-1%	3%
90%	25%	-13%	-12%	-25%	-47%	-47%	-72%	-91%	-67%	85%	5%	11%
Long Term												
Full Simulation Period[b]	-19%	-18%	-14%	-33%	-25%	-14%	-66%	-67%	-20%	15%	10%	-2%
Water Year Types[c]												
Wet (23%)	-25%	-19%	-21%	-29%	-9%	7%	-58%	-53%	-1%	6%	10%	-5%
Above Normal (24%)	-10%	-19%	-12%	-43%	-31%	-13%	-72%	-74%	-23%	3%	9%	-4%
Below Normal (10%)	-30%	-23%	-6%	-42%	-24%	-20%	-70%	-82%	-50%	5%	21%	3%
Dry (16%)	-15%	-16%	-7%	-31%	-39%	-35%	-69%	-81%	-25%	44%	3%	0%
Critical (27%)	-7%	-14%	-14%	-21%	-38%	-32%	-75%	-82%	-48%	74%	14%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.15 CVP Deliveries

Table 5C.3.2.15.1.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

				Revised Alternative 1	No Action Alternative	Revised Alternative 1 minus No Action Alternative
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,858	1,859	-1
			Dry	1,905	1,906	-1
			Critical	1,732	1,737	-5
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	155	146	8
			Dry	151	146	5
			Critical	105	102	3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	214	207	7
			Dry	192	186	5
			Critical	151	152	-1
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	219	185	34
			Dry	122	86	37
			Critical	35	24	12
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	260	261	0
			Dry	268	269	-1
			Critical	221	224	-3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	348	269	79
			Dry	203	140	63
			Critical	61	41	20
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	288	275	13
			Dry	284	274	10
			Critical	269	264	4
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	43	33	11
			Dry	25	17	8
			Critical	7	5	2
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	709	545	164
			Dry	422	288	134
			Critical	127	85	41
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,959	4,646	313
			Dry	4,459	4,198	261
			Critical	3,460	3,385	74

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.1.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

				Revised Alternative 1	No Action Alternative	Revised Alternative 1 minus No Action Alternative
Water Supply Reliability						
North of Delta						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	219	185	34
			Dry	122	86	37
			Critical	35	24	12
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term	485	467	18
			Dry	461	447	14
			Critical	408	405	3
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term	120	113	7
			Dry	105	97	8
			Critical	79	75	5
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,858	1,859	-1
			Dry	1,905	1,906	-1
			Critical	1,732	1,737	-5
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	155	146	8
			Dry	151	146	5
			Critical	105	102	3
Total CVP North of Delta						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term	2,717	2,658	59
			Dry	2,639	2,584	55
			Critical	2,281	2,268	13
South of Delta (Does not include Eastside Contractors deliveries)						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	1,100	847	253
			Dry	650	445	206
			Critical	195	131	64
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	17	15	2
			Dry	15	14	1
			Critical	12	11	1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	260	261	0
			Dry	268	269	-1
			Critical	221	224	-3
Total CVP South of Delta (Does not include Eastside Contractors deliveries)						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term	1,377	1,123	254
			Dry	933	727	206
			Critical	428	366	62
Eastside Contractors deliveries						
Water Rights	Delivery (annual average)	(TAF/year)	Long Term	514	508	6
			Dry	524	524	0
			Critical	486	445	42
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term	118	104	15
			Dry	98	84	13
			Critical	25	4	21
Total Eastside Contractors Deliveries						
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term	632	611	21
			Dry	621	608	13
			Critical	511	449	63

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.2.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

				No Action Alternative	Revised Second Basis of Comparison	No Action Alternative minus Revised Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,859	1,858	1
			Dry	1,906	1,905	1
			Critical	1,737	1,732	5
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	146	155	-8
			Dry	146	151	-5
			Critical	102	105	-3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	207	214	-7
			Dry	186	192	-5
			Critical	152	151	1
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	185	219	-34
			Dry	86	122	-37
			Critical	24	35	-12
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	260	0
			Dry	269	268	1
			Critical	224	221	3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	269	348	-79
			Dry	140	203	-63
			Critical	41	61	-20
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	275	288	-13
			Dry	274	284	-10
			Critical	264	269	-4
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	33	43	-11
			Dry	17	25	-8
			Critical	5	7	-2
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	545	709	-164
			Dry	288	422	-134
			Critical	85	127	-41
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,646	4,959	-313
			Dry	4,198	4,459	-261
			Critical	3,385	3,460	-74

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.2.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

					No Action Alternative	Revised Second Basis of Comparison	No Action Alternative minus Revised Second Basis of Comparison
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		185	219	-34
			Dry		86	122	-37
			Critical		24	35	-12
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term		467	485	-18
			Dry		447	461	-14
			Critical		405	408	-3
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term		113	120	-7
			Dry		97	105	-8
			Critical		75	79	-5
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,859	1,858	1
			Dry		1,906	1,905	1
			Critical		1,737	1,732	5
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		146	155	-8
			Dry		146	151	-5
			Critical		102	105	-3
Total CVP North of Delta							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		2,658	2,717	-59
			Dry		2,584	2,639	-55
			Critical		2,268	2,281	-13
South of Delta (Does not include Eastside Contractors deliveries)							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		847	1,100	-253
			Dry		445	650	-206
			Critical		131	195	-64
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	17	-2
			Dry		14	15	-1
			Critical		11	12	-1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	260	0
			Dry		269	268	1
			Critical		224	221	3
Total CVP South of Delta (Does not include Eastside Contractors deliveries)							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term		1,123	1,377	-254
			Dry		727	933	-206
			Critical		366	428	-62
Eastside Contractors deliveries							
Water Rights	Delivery (annual average)	(TAF/year)	Long Term		508	514	-6
			Dry		524	524	0
			Critical		445	486	-42
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term		104	118	-15
			Dry		84	98	-13
			Critical		4	25	-21
Total Eastside Contractors Deliveries							
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term		611	632	-21
			Dry		608	621	-13
			Critical		449	511	-63

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.3.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

				Alternative 3	Revised Second Basis of Comparison	Alternative 3 minus Revised Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,860	1,858	2
			Dry	1,906	1,905	1
			Critical	1,742	1,732	10
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	153	155	-1
			Dry	149	151	-2
			Critical	103	105	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	214	214	0
			Dry	192	192	0
			Critical	152	151	2
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	209	219	-10
			Dry	111	122	-11
			Critical	31	35	-4
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	260	1
			Dry	269	268	1
			Critical	224	221	3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	342	348	-6
			Dry	185	203	-17
			Critical	53	61	-8
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	286	288	-2
			Dry	283	284	-1
			Critical	267	269	-2
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	42	43	-1
			Dry	23	25	-2
			Critical	6	7	-1
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	696	709	-13
			Dry	387	422	-35
			Critical	108	127	-18
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,927	4,959	-32
			Dry	4,392	4,459	-67
			Critical	3,437	3,460	-22

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.3.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

					Alternative 3	Revised Second Basis of Comparison	Alternative 3 minus Revised Second Basis of Comparison
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		209	219	-10
			Dry		111	122	-11
			Critical		31	35	-4
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term		483	485	-2
			Dry		460	461	-1
			Critical		408	408	0
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term		118	120	-2
			Dry		104	105	-1
			Critical		78	79	-2
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,860	1,858	2
			Dry		1,906	1,905	1
			Critical		1,742	1,732	10
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		153	155	-1
			Dry		149	151	-2
			Critical		103	105	-2
Total CVP North of Delta							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		2,706	2,717	-11
			Dry		2,626	2,639	-13
			Critical		2,284	2,281	3
South of Delta (Does not include Eastside Contractors deliveries)							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		1,079	1,100	-20
			Dry		596	650	-55
			Critical		168	195	-28
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		17	17	0
			Dry		15	15	0
			Critical		11	12	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	260	1
			Dry		269	268	1
			Critical		224	221	3
Total CVP South of Delta (Does not include Eastside Contractors deliveries)							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term		1,357	1,377	-20
			Dry		879	933	-54
			Critical		403	428	-25
Eastside Contractors deliveries							
Water Rights	Delivery (annual average)	(TAF/year)	Long Term		513	514	-1
			Dry		524	524	0
			Critical		478	486	-8
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term		123	118	5
			Dry		109	98	12
			Critical		36	25	11
Total Eastside Contractors Deliveries							
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term		636	632	4
			Dry		633	621	12
			Critical		514	511	3

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.4.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

				Alternative 5	Revised Second Basis of Comparison	Alternative 5 minus Revised Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,861	1,858	3
			Dry	1,906	1,905	1
			Critical	1,747	1,732	15
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	146	155	-8
			Dry	145	151	-6
			Critical	103	105	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	207	214	-6
			Dry	186	192	-6
			Critical	152	151	1
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	185	219	-34
			Dry	85	122	-37
			Critical	24	35	-11
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	260	0
			Dry	269	268	1
			Critical	222	221	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	264	348	-84
			Dry	135	203	-68
			Critical	40	61	-21
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	275	288	-13
			Dry	275	284	-9
			Critical	264	269	-5
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	32	43	-11
			Dry	17	25	-8
			Critical	5	7	-2
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	538	709	-171
			Dry	281	422	-141
			Critical	85	127	-42
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,634	4,959	-324
			Dry	4,186	4,459	-273
			Critical	3,393	3,460	-67

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.4.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP Deliveries

					Alternative 5	Revised Second Basis of Comparison	Alternative 5 minus Revised Second Basis of Comparison
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		185	219	-34
			Dry		85	122	-37
			Critical		24	35	-11
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term		467	485	-18
			Dry		447	461	-14
			Critical		405	408	-3
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term		112	120	-7
			Dry		96	105	-9
			Critical		74	79	-6
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,861	1,858	3
			Dry		1,906	1,905	1
			Critical		1,747	1,732	15
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		146	155	-8
			Dry		145	151	-6
			Critical		103	105	-2
Total CVP North of Delta							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		2,660	2,717	-57
			Dry		2,584	2,639	-55
			Critical		2,279	2,281	-2
South of Delta (Does not include Eastside Contractors deliveries)							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		834	1,100	-266
			Dry		433	650	-217
			Critical		130	195	-65
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	17	-2
			Dry		14	15	-1
			Critical		11	12	-1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	260	0
			Dry		269	268	1
			Critical		222	221	0
Total CVP South of Delta (Does not include Eastside Contractors deliveries)							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term		1,110	1,377	-267
			Dry		715	933	-217
			Critical		363	428	-65
Eastside Contractors deliveries							
Water Rights	Delivery (annual average)	(TAF/year)	Long Term		502	514	-12
			Dry		524	524	0
			Critical		406	486	-80
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term		100	118	-19
			Dry		69	98	-29
			Critical		8	25	-17
Total Eastside Contractors Deliveries							
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term		602	632	-31
			Dry		593	621	-29
			Critical		414	511	-97

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text. 6) Annual deliveries are based on March to February Average.

Table 5C.3.2.15.5 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Av

	Stanislaus Deliveries		Difference from No Action Alternative		Difference from Second Basis of Comparison	
	CVP	Water Rights	CVP	Water Rights	CVP	Water Rights
	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)
No Action Alternative	103.5	507.8				
Revised Second Basis of Comparison	118.3	514.0	14.8	6.2		
Alternative 2	103.5	507.8			-14.8	-6.2
Alternative 3	123.2	512.7	19.6	4.9	4.8	-1.2
Alternative 5	99.7	502.1	-3.8	-5.7	-18.6	-11.9

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.16 CVP Total Generating Capacity

Table 5C.3.2.16.1 CVP Total Capacity, Monthly Capacity

No Action Alternative

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,688	1,743	1,810	1,854	1,883	1,895	1,877	1,848	1,785	1,749	1,670	1,647
20%	1,638	1,724	1,772	1,829	1,858	1,872	1,842	1,806	1,719	1,695	1,623	1,615
30%	1,600	1,694	1,744	1,802	1,837	1,842	1,825	1,782	1,671	1,623	1,585	1,599
40%	1,579	1,635	1,710	1,776	1,811	1,812	1,793	1,736	1,634	1,583	1,545	1,553
50%	1,550	1,611	1,681	1,732	1,778	1,782	1,757	1,711	1,607	1,543	1,510	1,516
60%	1,529	1,556	1,622	1,700	1,749	1,752	1,725	1,652	1,564	1,504	1,481	1,473
70%	1,465	1,519	1,588	1,661	1,712	1,714	1,685	1,618	1,524	1,457	1,433	1,432
80%	1,354	1,428	1,521	1,584	1,666	1,675	1,637	1,578	1,440	1,353	1,332	1,342
90%	1,137	1,293	1,403	1,455	1,476	1,502	1,454	1,384	1,203	1,120	1,085	1,103
Long Term												
Full Simulation Period[b]	1,476	1,542	1,612	1,685	1,727	1,734	1,705	1,648	1,542	1,468	1,429	1,430
Water Year Types[c]												
Wet (32%)	1,621	1,696	1,761	1,824	1,860	1,877	1,859	1,831	1,753	1,717	1,645	1,628
Above Normal (16%)	1,465	1,580	1,676	1,762	1,814	1,814	1,793	1,741	1,633	1,590	1,545	1,541
Below Normal (13%)	1,530	1,580	1,669	1,719	1,764	1,757	1,728	1,665	1,559	1,491	1,478	1,483
Dry (24%)	1,441	1,491	1,556	1,637	1,690	1,709	1,680	1,607	1,508	1,434	1,418	1,433
Critical (15%)	1,180	1,221	1,264	1,348	1,374	1,355	1,299	1,205	1,025	832	808	825

Revised Alternative 1

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,773	1,820	1,859	1,890	1,911	1,950	1,942	1,907	1,822	1,762	1,756	1,742
20%	1,746	1,799	1,838	1,869	1,899	1,930	1,918	1,861	1,752	1,690	1,682	1,693
30%	1,701	1,778	1,823	1,859	1,892	1,909	1,897	1,824	1,699	1,626	1,621	1,658
40%	1,661	1,742	1,796	1,842	1,878	1,889	1,873	1,787	1,665	1,606	1,584	1,581
50%	1,594	1,703	1,761	1,819	1,858	1,874	1,840	1,764	1,622	1,557	1,552	1,553
60%	1,570	1,647	1,720	1,783	1,829	1,842	1,802	1,721	1,598	1,527	1,501	1,508
70%	1,501	1,573	1,664	1,726	1,786	1,799	1,774	1,681	1,567	1,491	1,453	1,460
80%	1,393	1,469	1,589	1,659	1,739	1,761	1,728	1,632	1,488	1,403	1,408	1,393
90%	1,235	1,374	1,447	1,554	1,588	1,576	1,546	1,454	1,350	1,236	1,196	1,227
Long Term												
Full Simulation Period[b]	1,550	1,626	1,698	1,754	1,797	1,814	1,791	1,712	1,590	1,509	1,486	1,494
Water Year Types[c]												
Wet (32%)	1,688	1,765	1,818	1,863	1,898	1,932	1,925	1,876	1,780	1,724	1,701	1,708
Above Normal (16%)	1,537	1,667	1,774	1,825	1,869	1,891	1,874	1,791	1,664	1,598	1,583	1,580
Below Normal (13%)	1,622	1,684	1,766	1,803	1,842	1,850	1,819	1,730	1,602	1,512	1,494	1,500
Dry (24%)	1,490	1,558	1,629	1,711	1,769	1,789	1,763	1,670	1,550	1,482	1,464	1,473
Critical (15%)	1,297	1,340	1,408	1,470	1,506	1,485	1,429	1,323	1,155	987	948	968

Revised Alternative 1 minus No Action Alternative

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5%	4%	3%	2%	1%	3%	3%	3%	2%	1%	5%	6%
20%	7%	4%	4%	2%	2%	3%	4%	3%	2%	0%	4%	5%
30%	6%	5%	5%	3%	3%	4%	4%	2%	2%	0%	2%	4%
40%	5%	7%	5%	4%	4%	4%	4%	3%	2%	1%	3%	2%
50%	3%	6%	5%	5%	4%	5%	5%	3%	1%	1%	3%	2%
60%	3%	6%	6%	5%	5%	5%	4%	4%	2%	2%	1%	2%
70%	2%	4%	5%	4%	4%	5%	5%	4%	3%	2%	1%	2%
80%	3%	3%	5%	5%	4%	5%	6%	3%	3%	4%	6%	4%
90%	9%	6%	3%	7%	8%	5%	6%	5%	12%	10%	10%	11%
Long Term												
Full Simulation Period[b]	5%	5%	5%	4%	4%	5%	5%	4%	3%	3%	4%	5%
Water Year Types[c]												
Wet (32%)	4%	4%	3%	2%	2%	3%	4%	2%	1%	0%	3%	5%
Above Normal (16%)	5%	5%	6%	4%	3%	4%	5%	3%	2%	0%	2%	3%
Below Normal (13%)	6%	7%	6%	5%	4%	5%	5%	4%	3%	1%	1%	1%
Dry (24%)	3%	4%	5%	5%	5%	5%	5%	4%	3%	3%	3%	3%
Critical (15%)	10%	10%	11%	9%	10%	10%	10%	10%	13%	19%	17%	17%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.16.2 CVP Total Capacity, Monthly Capacity

Revised Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,773	1,820	1,859	1,890	1,911	1,950	1,942	1,907	1,822	1,762	1,756	1,742
20%	1,746	1,799	1,838	1,869	1,899	1,930	1,918	1,861	1,752	1,690	1,682	1,693
30%	1,701	1,778	1,823	1,859	1,892	1,909	1,897	1,824	1,699	1,626	1,621	1,658
40%	1,661	1,742	1,796	1,842	1,878	1,889	1,873	1,787	1,665	1,606	1,584	1,581
50%	1,594	1,703	1,761	1,819	1,858	1,874	1,840	1,764	1,622	1,557	1,552	1,553
60%	1,570	1,647	1,720	1,783	1,829	1,842	1,802	1,721	1,598	1,527	1,501	1,508
70%	1,501	1,573	1,664	1,726	1,786	1,799	1,774	1,681	1,567	1,491	1,453	1,460
80%	1,393	1,469	1,589	1,659	1,739	1,761	1,728	1,632	1,488	1,403	1,408	1,393
90%	1,235	1,374	1,447	1,554	1,588	1,576	1,546	1,454	1,350	1,236	1,196	1,227
Long Term												
Full Simulation Period[b]	1,550	1,626	1,698	1,754	1,797	1,814	1,791	1,712	1,590	1,509	1,486	1,494
Water Year Types[c]												
Wet (32%)	1,688	1,765	1,818	1,863	1,898	1,932	1,925	1,876	1,780	1,724	1,701	1,708
Above Normal (16%)	1,537	1,667	1,774	1,825	1,869	1,891	1,874	1,791	1,664	1,598	1,583	1,580
Below Normal (13%)	1,622	1,684	1,766	1,803	1,842	1,850	1,819	1,730	1,602	1,512	1,494	1,500
Dry (24%)	1,490	1,558	1,629	1,711	1,769	1,789	1,763	1,670	1,550	1,482	1,464	1,473
Critical (15%)	1,297	1,340	1,408	1,470	1,506	1,485	1,429	1,323	1,155	987	948	968

No Action Alternative

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,688	1,743	1,810	1,854	1,883	1,895	1,877	1,848	1,785	1,749	1,670	1,647
20%	1,638	1,724	1,772	1,829	1,858	1,872	1,842	1,806	1,719	1,695	1,623	1,615
30%	1,600	1,694	1,744	1,802	1,837	1,842	1,825	1,782	1,671	1,623	1,585	1,599
40%	1,579	1,635	1,710	1,776	1,811	1,812	1,793	1,736	1,634	1,583	1,545	1,553
50%	1,550	1,611	1,681	1,732	1,778	1,782	1,757	1,711	1,607	1,543	1,510	1,516
60%	1,529	1,556	1,622	1,700	1,749	1,752	1,725	1,652	1,564	1,504	1,481	1,473
70%	1,465	1,519	1,588	1,661	1,712	1,714	1,685	1,618	1,524	1,457	1,433	1,432
80%	1,354	1,428	1,521	1,584	1,666	1,675	1,637	1,578	1,440	1,353	1,332	1,342
90%	1,137	1,293	1,403	1,455	1,476	1,502	1,454	1,384	1,203	1,120	1,085	1,103
Long Term												
Full Simulation Period[b]	1,476	1,542	1,612	1,685	1,727	1,734	1,705	1,648	1,542	1,468	1,429	1,430
Water Year Types[c]												
Wet (32%)	1,621	1,696	1,761	1,824	1,860	1,877	1,859	1,831	1,753	1,717	1,645	1,628
Above Normal (16%)	1,465	1,580	1,676	1,762	1,814	1,814	1,793	1,741	1,633	1,590	1,545	1,541
Below Normal (13%)	1,530	1,580	1,669	1,719	1,764	1,757	1,728	1,665	1,559	1,491	1,478	1,483
Dry (24%)	1,441	1,491	1,556	1,637	1,690	1,709	1,680	1,607	1,508	1,434	1,418	1,433
Critical (15%)	1,180	1,221	1,264	1,348	1,374	1,355	1,299	1,205	1,025	832	808	825

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5%	-4%	-3%	-2%	-1%	-3%	-3%	-3%	-2%	-1%	-5%	**-5%**
20%	**-6%**	-4%	-4%	-2%	-2%	-3%	-4%	-3%	-2%	0%	-4%	-5%
30%	**-6%**	-5%	-4%	-3%	-3%	-3%	-4%	-2%	-2%	0%	-2%	-4%
40%	-5%	**-6%**	-5%	-4%	-4%	-4%	-4%	-3%	-2%	-1%	-2%	-2%
50%	-3%	**-5%**	-5%	-5%	-4%	-5%	-5%	-3%	-1%	-1%	-3%	-2%
60%	-3%	**-6%**	**-6%**	-5%	-4%	-5%	-4%	-4%	-2%	-1%	-1%	-2%
70%	-2%	-3%	-5%	-4%	-4%	-5%	**-5%**	-4%	-3%	-2%	-1%	-2%
80%	-3%	-3%	-4%	-5%	-4%	-5%	**-5%**	-3%	-3%	-4%	**-5%**	-4%
90%	**-8%**	**-6%**	-3%	**-6%**	**-7%**	-5%	**-6%**	-5%	**-11%**	**-9%**	**-9%**	**-10%**
Long Term												
Full Simulation Period[b]	-5%	**-5%**	**-5%**	-4%	-4%	-4%	-5%	-4%	-3%	-3%	-4%	-4%
Water Year Types[c]												
Wet (32%)	-4%	-4%	-3%	-2%	-2%	-3%	-3%	-2%	-1%	0%	-3%	-5%
Above Normal (16%)	-5%	**-5%**	**-5%**	-3%	-3%	-4%	-4%	-3%	-2%	0%	-2%	-2%
Below Normal (13%)	**-6%**	**-6%**	**-6%**	-5%	-4%	**-5%**	**-5%**	-4%	-3%	-1%	-1%	-1%
Dry (24%)	-3%	-4%	-4%	-4%	-4%	-4%	-5%	-4%	-3%	-3%	-3%	-3%
Critical (15%)	**-9%**	**-9%**	**-10%**	**-8%**	**-9%**	**-9%**	**-9%**	**-9%**	**-11%**	**-16%**	**-15%**	**-15%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.16.3 CVP Total Capacity, Monthly Capacity

Revised Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,773	1,820	1,859	1,890	1,911	1,950	1,942	1,907	1,822	1,762	1,756	1,742
20%	1,746	1,799	1,838	1,869	1,899	1,930	1,918	1,861	1,752	1,690	1,682	1,693
30%	1,701	1,778	1,823	1,859	1,892	1,909	1,897	1,824	1,699	1,626	1,621	1,658
40%	1,661	1,742	1,796	1,842	1,878	1,889	1,873	1,787	1,665	1,606	1,584	1,581
50%	1,594	1,703	1,761	1,819	1,858	1,874	1,840	1,764	1,622	1,557	1,552	1,553
60%	1,570	1,647	1,720	1,783	1,829	1,842	1,802	1,721	1,598	1,527	1,501	1,508
70%	1,501	1,573	1,664	1,726	1,786	1,799	1,774	1,681	1,567	1,491	1,453	1,460
80%	1,393	1,469	1,589	1,659	1,739	1,761	1,728	1,632	1,488	1,403	1,408	1,393
90%	1,235	1,374	1,447	1,554	1,588	1,576	1,546	1,454	1,350	1,236	1,196	1,227
Long Term												
Full Simulation Period[b]	1,550	1,626	1,698	1,754	1,797	1,814	1,791	1,712	1,590	1,509	1,486	1,494
Water Year Types[c]												
Wet (32%)	1,688	1,765	1,818	1,863	1,898	1,932	1,925	1,876	1,780	1,724	1,701	1,708
Above Normal (16%)	1,537	1,667	1,774	1,825	1,869	1,891	1,874	1,791	1,664	1,598	1,583	1,580
Below Normal (13%)	1,622	1,684	1,766	1,803	1,842	1,850	1,819	1,730	1,602	1,512	1,494	1,500
Dry (24%)	1,490	1,558	1,629	1,711	1,769	1,789	1,763	1,670	1,550	1,482	1,464	1,473
Critical (15%)	1,297	1,340	1,408	1,470	1,506	1,485	1,429	1,323	1,155	987	948	968

Alternative 3

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,778	1,818	1,852	1,884	1,910	1,945	1,947	1,910	1,837	1,777	1,759	1,753
20%	1,749	1,789	1,828	1,860	1,894	1,930	1,930	1,883	1,766	1,692	1,687	1,696
30%	1,708	1,772	1,814	1,851	1,884	1,900	1,895	1,828	1,717	1,654	1,633	1,659
40%	1,663	1,741	1,781	1,838	1,866	1,882	1,849	1,777	1,670	1,601	1,604	1,600
50%	1,609	1,689	1,744	1,800	1,840	1,851	1,821	1,760	1,644	1,572	1,554	1,569
60%	1,579	1,639	1,695	1,748	1,797	1,814	1,781	1,711	1,603	1,542	1,511	1,510
70%	1,499	1,557	1,632	1,703	1,768	1,784	1,755	1,665	1,567	1,487	1,453	1,465
80%	1,394	1,457	1,570	1,624	1,708	1,738	1,707	1,620	1,506	1,408	1,378	1,372
90%	1,231	1,365	1,434	1,496	1,518	1,545	1,519	1,453	1,343	1,229	1,190	1,181
Long Term												
Full Simulation Period[b]	1,551	1,613	1,676	1,732	1,777	1,794	1,775	1,705	1,592	1,512	1,486	1,493
Water Year Types[c]												
Wet (32%)	1,690	1,756	1,806	1,856	1,894	1,929	1,928	1,885	1,791	1,730	1,713	1,716
Above Normal (16%)	1,527	1,640	1,746	1,802	1,852	1,875	1,862	1,786	1,679	1,615	1,591	1,589
Below Normal (13%)	1,629	1,676	1,751	1,790	1,829	1,832	1,788	1,718	1,607	1,529	1,504	1,501
Dry (24%)	1,504	1,551	1,612	1,686	1,748	1,768	1,745	1,660	1,555	1,479	1,459	1,475
Critical (15%)	1,283	1,319	1,355	1,411	1,444	1,422	1,386	1,288	1,113	967	909	930

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%
20%	0%	-1%	-1%	0%	0%	0%	1%	1%	1%	0%	0%	0%
30%	0%	0%	-1%	0%	0%	0%	0%	0%	1%	2%	1%	0%
40%	0%	0%	-1%	0%	-1%	0%	-1%	-1%	0%	0%	1%	1%
50%	1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	1%	1%	0%	1%
60%	1%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	0%	1%	1%	0%
70%	0%	-1%	-2%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%
80%	0%	-1%	-1%	-2%	-2%	-1%	-1%	-1%	1%	0%	-2%	-2%
90%	0%	-1%	-1%	-4%	-4%	-2%	-2%	0%	-1%	-1%	0%	-4%
Long Term												
Full Simulation Period[b]	0%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%	0%
Water Year Types[c]												
Wet (32%)	0%	-1%	-1%	0%	0%	0%	0%	0%	1%	0%	1%	0%
Above Normal (16%)	-1%	-2%	-2%	-1%	-1%	-1%	-1%	0%	1%	1%	0%	1%
Below Normal (13%)	0%	0%	-1%	-1%	-1%	-1%	-2%	-1%	0%	1%	1%	0%
Dry (24%)	1%	0%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%
Critical (15%)	-1%	-2%	-4%	-4%	-4%	-4%	-3%	-3%	-4%	-2%	-4%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.16.4 CVP Total Capacity, Monthly Capacity

Revised Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,773	1,820	1,859	1,890	1,911	1,950	1,942	1,907	1,822	1,762	1,756	1,742
20%	1,746	1,799	1,838	1,869	1,899	1,930	1,918	1,861	1,752	1,690	1,682	1,693
30%	1,701	1,778	1,823	1,859	1,892	1,909	1,897	1,824	1,699	1,626	1,621	1,658
40%	1,661	1,742	1,796	1,842	1,878	1,889	1,873	1,787	1,665	1,606	1,584	1,581
50%	1,594	1,703	1,761	1,819	1,858	1,874	1,840	1,764	1,622	1,557	1,552	1,553
60%	1,570	1,647	1,720	1,783	1,829	1,842	1,802	1,721	1,598	1,527	1,501	1,508
70%	1,501	1,573	1,664	1,726	1,786	1,799	1,774	1,681	1,567	1,491	1,453	1,460
80%	1,393	1,469	1,589	1,659	1,739	1,761	1,728	1,632	1,488	1,403	1,408	1,393
90%	1,235	1,374	1,447	1,554	1,588	1,576	1,546	1,454	1,350	1,236	1,196	1,227
Long Term												
Full Simulation Period[b]	1,550	1,626	1,698	1,754	1,797	1,814	1,791	1,712	1,590	1,509	1,486	1,494
Water Year Types[c]												
Wet (32%)	1,688	1,765	1,818	1,863	1,898	1,932	1,925	1,876	1,780	1,724	1,701	1,708
Above Normal (16%)	1,537	1,667	1,774	1,825	1,869	1,891	1,874	1,791	1,664	1,598	1,583	1,580
Below Normal (13%)	1,622	1,684	1,766	1,803	1,842	1,850	1,819	1,730	1,602	1,512	1,494	1,500
Dry (24%)	1,490	1,558	1,629	1,711	1,769	1,789	1,763	1,670	1,550	1,482	1,464	1,473
Critical (15%)	1,297	1,340	1,408	1,470	1,506	1,485	1,429	1,323	1,155	987	948	968

Alternative 5

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,693	1,746	1,805	1,849	1,882	1,891	1,879	1,849	1,777	1,748	1,671	1,650
20%	1,635	1,721	1,772	1,829	1,859	1,867	1,843	1,806	1,725	1,690	1,624	1,612
30%	1,599	1,680	1,744	1,797	1,836	1,839	1,816	1,766	1,655	1,616	1,576	1,579
40%	1,566	1,638	1,710	1,767	1,801	1,801	1,785	1,732	1,619	1,571	1,538	1,547
50%	1,538	1,596	1,668	1,726	1,775	1,774	1,737	1,700	1,598	1,555	1,504	1,510
60%	1,516	1,552	1,617	1,687	1,737	1,733	1,701	1,643	1,537	1,484	1,460	1,457
70%	1,458	1,512	1,571	1,650	1,694	1,699	1,673	1,596	1,506	1,415	1,413	1,413
80%	1,327	1,399	1,504	1,574	1,644	1,639	1,616	1,532	1,439	1,324	1,302	1,310
90%	1,044	1,242	1,372	1,427	1,440	1,483	1,450	1,351	1,173	1,061	1,046	1,029
Long Term												
Full Simulation Period[b]	1,460	1,532	1,603	1,672	1,716	1,717	1,692	1,633	1,525	1,450	1,410	1,410
Water Year Types[c]												
Wet (32%)	1,609	1,690	1,755	1,819	1,856	1,873	1,858	1,830	1,748	1,715	1,641	1,625
Above Normal (16%)	1,458	1,576	1,671	1,757	1,808	1,806	1,785	1,735	1,624	1,577	1,536	1,532
Below Normal (13%)	1,504	1,559	1,648	1,712	1,755	1,743	1,710	1,653	1,546	1,474	1,465	1,468
Dry (24%)	1,428	1,478	1,545	1,622	1,676	1,686	1,657	1,585	1,485	1,403	1,383	1,391
Critical (15%)	1,152	1,205	1,253	1,308	1,344	1,310	1,274	1,159	985	793	768	794

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5%	-4%	-3%	-2%	-2%	-3%	-3%	-3%	-2%	-1%	-5%	**-5%**
20%	**-6%**	-4%	-4%	-2%	-2%	-3%	-4%	-3%	-2%	0%	-3%	-5%
30%	**-6%**	**-6%**	-4%	-3%	-3%	-4%	-4%	-3%	-3%	-1%	-3%	-5%
40%	**-6%**	**-6%**	-5%	-4%	-4%	-5%	-5%	-3%	-3%	-2%	-3%	-2%
50%	-4%	**-6%**	**-5%**	**-5%**	-4%	**-5%**	**-6%**	-4%	-1%	0%	-3%	-3%
60%	-3%	**-6%**	**-6%**	**-5%**	**-5%**	**-6%**	**-6%**	-5%	-4%	-3%	-3%	-3%
70%	-3%	-4%	**-6%**	-4%	**-5%**	**-6%**	**-6%**	**-5%**	-4%	**-5%**	-3%	-3%
80%	-5%	-5%	**-5%**	**-5%**	**-5%**	**-7%**	**-6%**	**-6%**	-3%	**-6%**	**-8%**	**-6%**
90%	**-15%**	**-10%**	**-5%**	**-8%**	**-9%**	**-6%**	**-6%**	**-7%**	**-13%**	**-14%**	**-12%**	**-16%**
Long Term												
Full Simulation Period[b]	**-6%**	**-6%**	**-6%**	-5%	-5%	**-5%**	**-6%**	-5%	-4%	-4%	**-5%**	**-6%**
Water Year Types[c]												
Wet (32%)	-5%	-4%	-3%	-2%	-2%	-3%	-3%	-2%	-2%	0%	-4%	-5%
Above Normal (16%)	**-5%**	**-5%**	**-6%**	-4%	-3%	-4%	-5%	-3%	-2%	-1%	-3%	-3%
Below Normal (13%)	**-7%**	**-7%**	**-7%**	**-5%**	-5%	**-6%**	**-6%**	-4%	-3%	-3%	-2%	-2%
Dry (24%)	-4%	**-5%**	**-5%**	**-5%**	**-5%**	**-6%**	**-6%**	**-5%**	-4%	**-5%**	**-6%**	**-6%**
Critical (15%)	**-11%**	**-10%**	**-11%**	**-11%**	**-11%**	**-12%**	**-11%**	**-12%**	**-15%**	**-20%**	**-19%**	**-18%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.2.17 CVP Total Generation

Table 5C.3.2.17.1 CVP Total Generation, Monthly Generation

No Action Alternative

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	409	413	641	689	671	696	492	616	619	756	585	630
20%	372	380	338	490	622	569	397	549	577	729	549	597
30%	329	310	240	381	471	363	358	514	561	705	536	469
40%	292	274	190	235	245	267	334	478	544	662	511	414
50%	270	231	175	201	205	229	318	464	527	644	496	342
60%	239	183	167	179	173	194	302	442	495	630	476	285
70%	210	162	146	152	141	171	282	415	479	598	451	250
80%	186	140	131	137	130	151	249	350	435	551	421	215
90%	159	118	105	120	110	141	217	291	350	474	359	184
Long Term												
Full Simulation Period[b]	273	255	260	317	322	329	343	461	514	631	487	376
Water Year Types[c]												
Wet (32%)	317	318	441	558	513	557	447	580	568	683	542	598
Above Normal (16%)	268	263	259	320	454	367	370	484	544	708	527	421
Below Normal (13%)	310	258	175	186	266	220	318	455	540	679	529	289
Dry (24%)	254	232	154	183	145	183	263	406	511	607	457	246
Critical (15%)	184	149	123	134	111	135	242	271	345	431	333	145

Revised Alternative 1

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	416	296	658	692	692	710	488	631	701	773	637	443
20%	334	254	432	581	649	584	390	566	658	755	593	370
30%	302	232	240	439	446	368	347	535	619	732	570	337
40%	278	219	195	265	286	261	327	507	590	708	550	316
50%	237	206	181	207	219	226	312	492	565	688	527	298
60%	218	179	170	175	173	192	294	464	551	662	503	280
70%	199	167	147	153	144	175	280	442	531	628	479	259
80%	172	138	133	138	134	153	252	372	481	582	436	226
90%	152	124	113	121	115	139	221	314	389	472	392	191
Long Term												
Full Simulation Period[b]	257	215	278	334	335	335	337	481	566	659	517	307
Water Year Types[c]												
Wet (32%)	296	269	491	581	531	551	430	588	624	700	577	402
Above Normal (16%)	241	215	246	359	481	398	345	511	615	741	572	340
Below Normal (13%)	285	221	186	227	282	245	326	490	612	724	577	303
Dry (24%)	248	183	158	177	150	179	266	429	543	639	462	252
Critical (15%)	181	148	134	133	109	141	257	297	386	452	362	161

Revised Alternative 1 minus No Action Alternative

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	**-28%**	3%	0%	3%	2%	-1%	2%	**13%**	2%	**9%**	**-30%**
20%	**-10%**	**-33%**	**28%**	**19%**	4%	3%	-2%	3%	**14%**	4%	**8%**	**-38%**
30%	**-8%**	**-25%**	0%	**15%**	**-5%**	1%	-3%	4%	**10%**	4%	**6%**	**-28%**
40%	-5%	**-20%**	3%	**13%**	**17%**	-2%	-2%	**6%**	**8%**	**7%**	**8%**	**-24%**
50%	**-12%**	**-11%**	3%	3%	**7%**	-1%	-2%	**6%**	**7%**	**7%**	**6%**	**-13%**
60%	**-9%**	-2%	2%	-2%	0%	-1%	-3%	5%	**11%**	**5%**	**6%**	-2%
70%	**-5%**	3%	0%	1%	2%	2%	-1%	**6%**	**11%**	5%	**6%**	3%
80%	**-8%**	-2%	2%	1%	4%	1%	1%	**6%**	**11%**	**6%**	4%	**5%**
90%	-4%	5%	**8%**	1%	5%	-1%	2%	**8%**	**11%**	-1%	**9%**	4%
Long Term												
Full Simulation Period[b]	**-6%**	**-16%**	**7%**	**6%**	4%	2%	-2%	4%	**10%**	4%	**6%**	**-18%**
Water Year Types[c]												
Wet (32%)	**-7%**	**-15%**	**12%**	4%	3%	-1%	-4%	1%	**10%**	3%	**6%**	**-33%**
Above Normal (16%)	**-10%**	**-18%**	**-5%**	**12%**	**6%**	**8%**	**-7%**	**6%**	**13%**	5%	**8%**	**-19%**
Below Normal (13%)	**-8%**	**-14%**	**6%**	**22%**	**6%**	**11%**	3%	**8%**	**13%**	**7%**	**9%**	5%
Dry (24%)	-2%	**-21%**	3%	-3%	4%	-2%	1%	**6%**	**6%**	**5%**	1%	2%
Critical (15%)	-1%	-1%	**9%**	0%	-2%	5%	**6%**	**10%**	**12%**	5%	**9%**	**11%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.17.2 CVP Total Generation, Monthly Generation

Revised Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	416	296	658	692	692	710	488	631	701	773	637	443
20%	334	254	432	581	649	584	390	566	658	755	593	370
30%	302	232	240	439	446	368	347	535	619	732	570	337
40%	278	219	195	265	286	261	327	507	590	708	550	316
50%	237	206	181	207	219	226	312	492	565	688	527	298
60%	218	179	170	175	173	192	294	464	551	662	503	280
70%	199	167	147	153	144	175	280	442	531	628	479	259
80%	172	138	133	138	134	153	252	372	481	582	436	226
90%	152	124	113	121	115	139	221	314	389	472	392	191
Long Term												
Full Simulation Period[b]	257	215	278	334	335	335	337	481	566	659	517	307
Water Year Types[c]												
Wet (32%)	296	269	491	581	531	551	430	588	624	700	577	402
Above Normal (16%)	241	215	246	359	481	398	345	511	615	741	572	340
Below Normal (13%)	285	221	186	227	282	245	326	490	612	724	577	303
Dry (24%)	248	183	158	177	150	179	266	429	543	639	462	252
Critical (15%)	181	148	134	133	109	141	257	297	386	452	362	161

No Action Alternative

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	409	413	641	689	671	696	492	616	619	756	585	630
20%	372	380	338	490	622	569	397	549	577	729	549	597
30%	329	310	240	381	471	363	358	514	561	705	536	469
40%	292	274	190	235	245	267	334	478	544	662	511	414
50%	270	231	175	201	205	229	318	464	527	644	496	342
60%	239	183	167	179	173	194	302	442	495	630	476	285
70%	210	162	146	152	141	171	282	415	479	598	451	250
80%	186	140	131	137	130	151	249	350	435	551	421	215
90%	159	118	105	120	110	141	217	291	350	474	359	184
Long Term												
Full Simulation Period[b]	273	255	260	317	322	329	343	461	514	631	487	376
Water Year Types[c]												
Wet (32%)	317	318	441	558	513	557	447	580	568	683	542	598
Above Normal (16%)	268	263	259	320	454	367	370	484	544	708	527	421
Below Normal (13%)	310	258	175	186	266	220	318	455	540	679	529	289
Dry (24%)	254	232	154	183	145	183	263	406	511	607	457	246
Critical (15%)	184	149	123	134	111	135	242	271	345	431	333	145

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2%	**39%**	-3%	0%	-3%	-2%	1%	-2%	**-12%**	-2%	**-8%**	**42%**
20%	**11%**	**49%**	**-22%**	**-16%**	-4%	-2%	2%	-3%	**-12%**	-3%	**-7%**	**61%**
30%	**9%**	**33%**	0%	**-13%**	**6%**	-1%	3%	-4%	**-9%**	-4%	**-6%**	**39%**
40%	5%	**25%**	-3%	**-11%**	**-14%**	2%	2%	**-6%**	**-8%**	**-7%**	**-7%**	**31%**
50%	**14%**	**12%**	-3%	-3%	**-6%**	1%	2%	**-6%**	**-7%**	**-6%**	**-6%**	**15%**
60%	**10%**	2%	-2%	2%	0%	1%	3%	-5%	**-10%**	-5%	**-5%**	2%
70%	**5%**	-3%	0%	-1%	-2%	-2%	1%	**-6%**	**-10%**	-5%	**-6%**	-3%
80%	**8%**	2%	-2%	-1%	-3%	-1%	-1%	**-6%**	**-10%**	**-5%**	-3%	-5%
90%	5%	-5%	**-7%**	-1%	-5%	1%	-2%	**-7%**	**-10%**	1%	**-8%**	-4%
Long Term												
Full Simulation Period[b]	**6%**	**19%**	**-6%**	**-5%**	-4%	-2%	2%	-4%	**-9%**	-4%	**-6%**	**23%**
Water Year Types[c]												
Wet (32%)	**7%**	**18%**	**-10%**	-4%	-3%	1%	4%	-1%	**-9%**	-2%	**-6%**	**49%**
Above Normal (16%)	**11%**	**22%**	**6%**	**-11%**	**-6%**	**-8%**	**7%**	**-5%**	**-12%**	-4%	**-8%**	**24%**
Below Normal (13%)	**9%**	**17%**	**-6%**	**-18%**	**-6%**	**-10%**	-2%	**-7%**	**-12%**	**-6%**	**-8%**	-5%
Dry (24%)	2%	**27%**	-3%	3%	-3%	2%	-1%	**-5%**	**-6%**	-5%	-1%	-2%
Critical (15%)	1%	1%	**-8%**	0%	2%	-4%	**-6%**	**-9%**	**-11%**	-5%	**-8%**	**-10%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.17.3 CVP Total Generation, Monthly Generation

Revised Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	416	296	658	692	692	710	488	631	701	773	637	443
20%	334	254	432	581	649	584	390	566	658	755	593	370
30%	302	232	240	439	446	368	347	535	619	732	570	337
40%	278	219	195	265	286	261	327	507	590	708	550	316
50%	237	206	181	207	219	226	312	492	565	688	527	298
60%	218	179	170	175	173	192	294	464	551	662	503	280
70%	199	167	147	153	144	175	280	442	531	628	479	259
80%	172	138	133	138	134	153	252	372	481	582	436	226
90%	152	124	113	121	115	139	221	314	389	472	392	191
Long Term												
Full Simulation Period[b]	257	215	278	334	335	335	337	481	566	659	517	307
Water Year Types[c]												
Wet (32%)	296	269	491	581	531	551	430	588	624	700	577	402
Above Normal (16%)	241	215	246	359	481	398	345	511	615	741	572	340
Below Normal (13%)	285	221	186	227	282	245	326	490	612	724	577	303
Dry (24%)	248	183	158	177	150	179	266	429	543	639	462	252
Critical (15%)	181	148	134	133	109	141	257	297	386	452	362	161

Alternative 3

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	306	662	691	701	710	489	598	648	775	610	459
20%	342	256	426	590	650	583	393	551	635	759	578	387
30%	314	227	242	427	458	367	360	507	590	741	557	358
40%	275	216	199	254	283	258	330	493	564	720	538	328
50%	245	204	181	203	220	223	314	469	548	678	525	302
60%	222	180	170	173	179	192	291	442	518	657	513	279
70%	202	164	149	156	142	171	271	421	511	624	482	257
80%	176	145	133	134	128	153	250	363	453	561	445	227
90%	158	124	113	122	109	136	222	300	381	474	387	191
Long Term												
Full Simulation Period[b]	262	215	279	333	336	335	338	462	542	658	512	314
Water Year Types[c]												
Wet (32%)	298	268	493	584	537	551	430	562	593	712	576	407
Above Normal (16%)	249	222	245	350	477	401	346	482	580	736	550	341
Below Normal (13%)	284	211	187	228	283	245	332	476	580	711	557	347
Dry (24%)	256	184	162	175	146	180	265	416	532	635	471	251
Critical (15%)	189	150	132	130	113	139	253	285	373	445	360	160

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	3%	1%	0%	1%	0%	0%	**-5%**	**-7%**	0%	-4%	4%
20%	2%	0%	-1%	1%	0%	0%	1%	-3%	-3%	0%	-2%	5%
30%	4%	-2%	1%	-3%	3%	0%	4%	**-5%**	-5%	1%	-2%	**6%**
40%	-1%	-1%	2%	-4%	-1%	-1%	1%	-3%	-4%	2%	-2%	4%
50%	4%	-1%	0%	-2%	1%	-2%	0%	-5%	-3%	-1%	0%	1%
60%	2%	1%	0%	-2%	3%	0%	-1%	-5%	**-6%**	-1%	2%	0%
70%	2%	-1%	2%	2%	-2%	-2%	-3%	-5%	-4%	-1%	1%	-1%
80%	2%	**5%**	0%	-3%	-5%	0%	-1%	-3%	**-6%**	-3%	2%	0%
90%	4%	0%	1%	0%	**-5%**	-2%	0%	-4%	-2%	0%	-1%	0%
Long Term												
Full Simulation Period[b]	2%	0%	0%	0%	0%	0%	0%	-4%	-4%	0%	-1%	2%
Water Year Types[c]												
Wet (32%)	1%	-1%	0%	1%	1%	0%	0%	-4%	**-5%**	2%	0%	1%
Above Normal (16%)	3%	3%	0%	-2%	-1%	1%	0%	**-6%**	**-6%**	-1%	-4%	0%
Below Normal (13%)	0%	-4%	0%	1%	0%	0%	2%	-3%	**-5%**	-2%	-4%	**14%**
Dry (24%)	3%	1%	2%	-1%	-3%	1%	0%	-3%	-2%	-1%	2%	0%
Critical (15%)	4%	1%	-2%	-2%	4%	-1%	-2%	-4%	-3%	-2%	-1%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.17.4 CVP Total Generation, Monthly Generation

Revised Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	416	296	658	692	692	710	488	631	701	773	637	443
20%	334	254	432	581	649	584	390	566	658	755	593	370
30%	302	232	240	439	446	368	347	535	619	732	570	337
40%	278	219	195	265	286	261	327	507	590	708	550	316
50%	237	206	181	207	219	226	312	492	565	688	527	298
60%	218	179	170	175	173	192	294	464	551	662	503	280
70%	199	167	147	153	144	175	280	442	531	628	479	259
80%	172	138	133	138	134	153	252	372	481	582	436	226
90%	152	124	113	121	115	139	221	314	389	472	392	191
Long Term												
Full Simulation Period[b]	257	215	278	334	335	335	337	481	566	659	517	307
Water Year Types[c]												
Wet (32%)	296	269	491	581	531	551	430	588	624	700	577	402
Above Normal (16%)	241	215	246	359	481	398	345	511	615	741	572	340
Below Normal (13%)	285	221	186	227	282	245	326	490	612	724	577	303
Dry (24%)	248	183	158	177	150	179	266	429	543	639	462	252
Critical (15%)	181	148	134	133	109	141	257	297	386	452	362	161

Alternative 5

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	404	410	647	689	671	694	491	627	618	752	574	628
20%	365	380	341	486	622	563	404	562	578	722	553	598
30%	328	316	236	381	459	362	368	513	557	705	534	468
40%	284	281	188	233	245	266	334	482	541	660	514	418
50%	269	226	173	201	205	229	327	460	525	648	498	351
60%	244	182	163	178	173	199	304	439	493	634	471	277
70%	220	161	145	153	139	170	281	412	472	601	451	248
80%	183	140	131	137	127	151	258	343	432	548	416	217
90%	155	113	102	120	108	136	233	308	350	463	365	184
Long Term												
Full Simulation Period[b]	273	254	258	317	321	328	348	463	509	628	485	378
Water Year Types[c]												
Wet (32%)	313	320	438	558	512	554	446	585	567	685	538	598
Above Normal (16%)	266	254	259	321	454	368	370	489	542	708	523	419
Below Normal (13%)	307	257	173	186	265	221	334	458	533	675	520	294
Dry (24%)	254	231	153	183	145	183	273	404	505	604	459	247
Critical (15%)	192	149	120	135	110	132	250	270	336	414	337	153

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3%	**38%**	-2%	0%	-3%	-2%	1%	-1%	**-12%**	-3%	**-10%**	**42%**
20%	**9%**	**49%**	**-21%**	**-16%**	-4%	-4%	4%	-1%	**-12%**	-4%	**-7%**	**62%**
30%	**9%**	**36%**	-1%	**-13%**	3%	-2%	**6%**	-4%	**-10%**	-4%	**-6%**	**39%**
40%	2%	**28%**	-3%	**-12%**	**-14%**	2%	2%	-5%	**-8%**	**-7%**	**-7%**	**32%**
50%	**14%**	**10%**	-4%	-3%	**-6%**	1%	5%	**-7%**	**-7%**	**-6%**	**-6%**	**18%**
60%	**12%**	2%	-4%	2%	0%	3%	3%	**-5%**	**-11%**	-4%	**-6%**	-1%
70%	**11%**	-3%	-1%	0%	-4%	-3%	0%	**-7%**	**-11%**	-4%	**-6%**	-4%
80%	**7%**	1%	-2%	-1%	**-5%**	-1%	3%	**-8%**	**-10%**	**-6%**	-5%	-4%
90%	2%	**-9%**	**-9%**	-1%	**-6%**	-2%	**5%**	-2%	**-10%**	-2%	**-7%**	-4%
Long Term												
Full Simulation Period[b]	**6%**	**18%**	**-7%**	**-5%**	-4%	-2%	3%	-4%	**-10%**	-5%	**-6%**	**23%**
Water Year Types[c]												
Wet (32%)	**6%**	**19%**	**-11%**	-4%	-4%	1%	4%	0%	**-9%**	-2%	**-7%**	**49%**
Above Normal (16%)	**10%**	**18%**	**5%**	**-11%**	**-6%**	**-8%**	**7%**	-4%	**-12%**	-4%	**-9%**	**23%**
Below Normal (13%)	**8%**	**16%**	**-7%**	**-18%**	**-6%**	**-10%**	2%	**-7%**	**-13%**	**-7%**	**-10%**	-3%
Dry (24%)	2%	**26%**	-3%	3%	-3%	2%	2%	**-6%**	**-7%**	**-6%**	-1%	-2%
Critical (15%)	**6%**	1%	**-10%**	1%	1%	**-6%**	-3%	**-9%**	**-13%**	**-8%**	**-7%**	**-5%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.2.18 CVP Total Energy Use

Table 5C.3.2.18.1 CVP Total Energy Use, Monthly Energy Use

No Action Alternative

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	111	171	154	153	146	149	60	69	128	153	133	106
20%	95	150	149	131	133	138	43	46	103	139	122	105
30%	85	139	142	118	115	109	37	41	88	122	114	103
40%	76	129	134	113	99	98	35	39	78	114	109	96
50%	72	105	129	110	94	75	32	36	65	104	102	87
60%	67	93	123	105	85	65	31	33	58	93	94	76
70%	62	81	115	95	72	61	29	30	44	84	79	68
80%	57	65	96	83	47	46	25	26	34	69	59	58
90%	54	58	74	71	31	22	21	21	21	42	36	45
Long Term												
Full Simulation Period[b]	76	111	121	108	92	86	36	40	71	101	93	82
Water Year Types[c]												
Wet (32%)	81	125	130	124	125	122	50	58	113	132	119	94
Above Normal (16%)	74	120	123	97	91	104	36	40	85	99	108	87
Below Normal (13%)	79	122	132	107	84	76	30	33	61	106	106	92
Dry (24%)	76	103	120	108	77	64	30	30	42	90	65	72
Critical (15%)	65	73	89	85	52	31	21	22	22	51	56	57

Revised Alternative 1

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	152	163	173	189	145	83	90	114	163	178	109
20%	121	140	159	167	148	128	81	64	103	156	153	108
30%	118	139	157	163	142	103	80	59	96	148	132	107
40%	96	131	155	162	138	82	75	53	91	140	128	106
50%	74	123	152	160	135	68	69	46	87	131	123	105
60%	65	108	143	157	99	67	63	43	78	117	110	90
70%	54	96	128	147	77	62	49	38	64	97	85	83
80%	44	77	119	123	48	52	36	28	43	86	54	68
90%	32	67	86	74	25	28	22	23	25	42	39	49
Long Term												
Full Simulation Period[b]	84	114	136	148	114	84	61	50	77	118	113	92
Water Year Types[c]												
Wet (32%)	99	131	154	168	137	96	79	69	102	145	149	109
Above Normal (16%)	73	115	136	148	133	93	79	57	100	129	135	115
Below Normal (13%)	93	135	149	157	99	85	61	51	83	147	139	93
Dry (24%)	86	101	125	139	103	84	43	36	55	105	67	75
Critical (15%)	52	76	106	109	78	50	30	24	30	45	61	58

Revised Alternative 1 minus No Action Alternative

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	23%	-11%	5%	13%	30%	-2%	39%	31%	-11%	7%	34%	3%
20%	27%	-7%	7%	27%	11%	-8%	90%	40%	1%	12%	25%	3%
30%	39%	-1%	11%	39%	23%	-6%	114%	44%	9%	21%	16%	3%
40%	27%	2%	16%	43%	39%	-17%	118%	37%	17%	23%	18%	10%
50%	3%	17%	18%	46%	44%	-8%	113%	30%	34%	26%	21%	20%
60%	-3%	16%	16%	49%	17%	2%	106%	33%	34%	26%	17%	18%
70%	-13%	18%	11%	54%	8%	2%	68%	26%	44%	14%	7%	23%
80%	-23%	18%	24%	49%	3%	13%	44%	8%	29%	25%	-8%	17%
90%	-42%	14%	16%	5%	-20%	27%	2%	6%	20%	0%	7%	9%
Long Term												
Full Simulation Period[b]	10%	3%	13%	36%	25%	-1%	69%	25%	9%	17%	21%	13%
Water Year Types[c]												
Wet (32%)	21%	5%	19%	35%	10%	-21%	59%	18%	-10%	9%	25%	16%
Above Normal (16%)	-1%	-4%	11%	53%	46%	-11%	119%	42%	18%	30%	25%	32%
Below Normal (13%)	18%	11%	13%	46%	17%	11%	105%	53%	35%	39%	32%	1%
Dry (24%)	13%	-3%	4%	28%	34%	31%	42%	20%	31%	18%	3%	4%
Critical (15%)	-20%	4%	19%	27%	51%	63%	47%	8%	33%	-12%	9%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.18.2 CVP Total Energy Use, Monthly Energy Use

Revised Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	152	163	173	189	145	83	90	114	163	178	109
20%	121	140	159	167	148	128	81	64	103	156	153	108
30%	118	139	157	163	142	103	80	59	96	148	132	107
40%	96	131	155	162	138	82	75	53	91	140	128	106
50%	74	123	152	160	135	68	69	46	87	131	123	105
60%	65	108	143	157	99	67	63	43	78	117	110	90
70%	54	96	128	147	77	62	49	38	64	97	85	83
80%	44	77	119	123	48	52	36	28	43	86	54	68
90%	32	67	86	74	25	28	22	23	25	42	39	49
Long Term												
Full Simulation Period[b]	84	114	136	148	114	84	61	50	77	118	113	92
Water Year Types[c]												
Wet (32%)	99	131	154	168	137	96	79	69	102	145	149	109
Above Normal (16%)	73	115	136	148	133	93	79	57	100	129	135	115
Below Normal (13%)	93	135	149	157	99	85	61	51	83	147	139	93
Dry (24%)	86	101	125	139	103	84	43	36	55	105	67	75
Critical (15%)	52	76	106	109	78	50	30	24	30	45	61	58

No Action Alternative

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	111	171	154	153	146	149	60	69	128	153	133	106
20%	95	150	149	131	133	138	43	46	103	139	122	105
30%	85	139	142	118	115	109	37	41	88	122	114	103
40%	76	129	134	113	99	98	35	39	78	114	109	96
50%	72	105	129	110	94	75	32	36	65	104	102	87
60%	67	93	123	105	85	65	31	33	58	93	94	76
70%	62	81	115	95	72	61	29	30	44	84	79	68
80%	57	65	96	83	47	46	25	26	34	69	59	58
90%	54	58	74	71	31	22	21	21	21	42	36	45
Long Term												
Full Simulation Period[b]	76	111	121	108	92	86	36	40	71	101	93	82
Water Year Types[c]												
Wet (32%)	81	125	130	124	125	122	50	58	113	132	119	94
Above Normal (16%)	74	120	123	97	91	104	36	40	85	99	108	87
Below Normal (13%)	79	122	132	107	84	76	30	33	61	106	106	92
Dry (24%)	76	103	120	108	77	64	30	30	42	90	65	72
Critical (15%)	65	73	89	85	52	31	21	22	22	51	56	57

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-19%	13%	-5%	-12%	-23%	2%	-28%	-24%	12%	-6%	-26%	-3%
20%	-21%	7%	-6%	-21%	-10%	8%	-47%	-29%	-1%	-11%	-20%	-2%
30%	-28%	1%	-10%	-28%	-19%	6%	-53%	-31%	-8%	-18%	-14%	-3%
40%	-21%	-2%	-13%	-30%	-28%	21%	-54%	-27%	-14%	-19%	-15%	-9%
50%	-3%	-14%	-15%	-31%	-30%	9%	-53%	-23%	-25%	-21%	-17%	-17%
60%	3%	-14%	-14%	-33%	-14%	-2%	-51%	-25%	-25%	-21%	-15%	-15%
70%	14%	-15%	-10%	-35%	-7%	-2%	-41%	-21%	-30%	-13%	-7%	-18%
80%	30%	-15%	-19%	-33%	-3%	-11%	-30%	-7%	-22%	-20%	9%	-14%
90%	72%	-12%	-14%	-5%	25%	-21%	-2%	-6%	-17%	0%	-7%	-8%
Long Term												
Full Simulation Period[b]	-9%	-3%	-12%	-27%	-20%	1%	-41%	-20%	-8%	-15%	-17%	-11%
Water Year Types[c]												
Wet (32%)	-17%	-5%	-16%	-26%	-9%	27%	-37%	-15%	11%	-9%	-20%	-14%
Above Normal (16%)	1%	4%	-10%	-34%	-32%	12%	-54%	-29%	-15%	-23%	-20%	-24%
Below Normal (13%)	-15%	-10%	-11%	-32%	-15%	-10%	-51%	-34%	-26%	-28%	-24%	-1%
Dry (24%)	-11%	3%	-4%	-22%	-25%	-24%	-30%	-17%	-23%	-15%	-3%	-4%
Critical (15%)	25%	-4%	-16%	-21%	-34%	-39%	-32%	-7%	-25%	14%	-8%	-3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.18.3 CVP Total Energy Use, Monthly Energy Use

Revised Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	152	163	173	189	145	83	90	114	163	178	109
20%	121	140	159	167	148	128	81	64	103	156	153	108
30%	118	139	157	163	142	103	80	59	96	148	132	107
40%	96	131	155	162	138	82	75	53	91	140	128	106
50%	74	123	152	160	135	68	69	46	87	131	123	105
60%	65	108	143	157	99	67	63	43	78	117	110	90
70%	54	96	128	147	77	62	49	38	64	97	85	83
80%	44	77	119	123	48	52	36	28	43	86	54	68
90%	32	67	86	74	25	28	22	23	25	42	39	49
Long Term												
Full Simulation Period[b]	84	114	136	148	114	84	61	50	77	118	113	92
Water Year Types[c]												
Wet (32%)	99	131	154	168	137	96	79	69	102	145	149	109
Above Normal (16%)	73	115	136	148	133	93	79	57	100	129	135	115
Below Normal (13%)	93	135	149	157	99	85	61	51	83	147	139	93
Dry (24%)	86	101	125	139	103	84	43	36	55	105	67	75
Critical (15%)	52	76	106	109	78	50	30	24	30	45	61	58

Alternative 3

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	143	149	161	165	151	147	87	99	142	154	156	139
20%	124	140	157	131	142	139	82	89	122	146	134	112
30%	119	138	154	120	126	100	81	79	106	139	132	107
40%	108	128	143	117	105	78	79	72	100	128	128	106
50%	86	118	140	110	91	72	72	66	91	118	113	105
60%	70	107	131	104	75	64	64	53	80	103	99	95
70%	63	95	122	93	65	62	46	40	59	87	83	85
80%	52	82	102	84	54	51	35	30	41	71	62	63
90%	46	66	73	76	31	24	23	23	24	46	41	45
Long Term												
Full Simulation Period[b]	91	113	129	109	95	85	62	62	85	109	106	97
Water Year Types[c]												
Wet (32%)	101	130	144	128	135	108	83	87	125	139	140	113
Above Normal (16%)	83	113	122	93	96	125	77	74	105	115	121	111
Below Normal (13%)	94	130	144	111	85	78	56	58	86	123	117	126
Dry (24%)	97	104	126	108	75	65	49	44	54	98	75	74
Critical (15%)	64	78	97	85	53	31	30	25	27	43	55	58

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4%	-2%	-1%	-5%	**-20%**	1%	**5%**	**11%**	**24%**	**-5%**	**-12%**	**27%**
20%	2%	0%	-1%	**-21%**	-4%	**9%**	1%	**38%**	**18%**	**-6%**	**-13%**	4%
30%	1%	0%	-2%	**-27%**	**-11%**	-2%	2%	**34%**	**11%**	**-6%**	0%	1%
40%	**12%**	-3%	**-8%**	**-27%**	**-24%**	-4%	**5%**	**35%**	**10%**	**-9%**	0%	0%
50%	**16%**	-4%	**-8%**	**-31%**	**-32%**	5%	4%	**43%**	4%	**-10%**	**-8%**	0%
60%	**8%**	-1%	**-8%**	**-34%**	**-24%**	-4%	1%	**22%**	3%	**-12%**	**-10%**	**6%**
70%	**16%**	-1%	-4%	**-37%**	**-16%**	0%	**-5%**	4%	**-8%**	**-10%**	-2%	3%
80%	**18%**	**8%**	**-15%**	**-31%**	**12%**	-2%	-2%	**8%**	-5%	**-18%**	**15%**	**-7%**
90%	**45%**	-1%	**-16%**	2%	**21%**	**-17%**	**8%**	2%	**-5%**	**11%**	**7%**	**-7%**
Long Term												
Full Simulation Period[b]	**8%**	0%	**-5%**	**-26%**	**-17%**	1%	2%	**23%**	**10%**	**-8%**	**-6%**	**5%**
Water Year Types[c]												
Wet (32%)	3%	-1%	**-7%**	**-24%**	-2%	**12%**	**5%**	**27%**	**23%**	-4%	**-6%**	4%
Above Normal (16%)	**13%**	-2%	**-10%**	**-37%**	**-27%**	**34%**	-3%	**30%**	5%	**-11%**	**-10%**	-4%
Below Normal (13%)	1%	-4%	-3%	**-29%**	**-14%**	**-8%**	**-9%**	**15%**	4%	**-16%**	**-16%**	**36%**
Dry (24%)	**13%**	3%	1%	**-22%**	**-27%**	**-22%**	**13%**	**20%**	-2%	**-7%**	**12%**	-1%
Critical (15%)	**22%**	2%	**-8%**	**-21%**	**-33%**	**-39%**	-1%	**5%**	**-10%**	-4%	**-9%**	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.18.4 CVP Total Energy Use, Monthly Energy Use

Revised Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	152	163	173	189	145	83	90	114	163	178	109
20%	121	140	159	167	148	128	81	64	103	156	153	108
30%	118	139	157	163	142	103	80	59	96	148	132	107
40%	96	131	155	162	138	82	75	53	91	140	128	106
50%	74	123	152	160	135	68	69	46	87	131	123	105
60%	65	108	143	157	99	67	63	43	78	117	110	90
70%	54	96	128	147	77	62	49	38	64	97	85	83
80%	44	77	119	123	48	52	36	28	43	86	54	68
90%	32	67	86	74	25	28	22	23	25	42	39	49
Long Term												
Full Simulation Period[b]	84	114	136	148	114	84	61	50	77	118	113	92
Water Year Types[c]												
Wet (32%)	99	131	154	168	137	96	79	69	102	145	149	109
Above Normal (16%)	73	115	136	148	133	93	79	57	100	129	135	115
Below Normal (13%)	93	135	149	157	99	85	61	51	83	147	139	93
Dry (24%)	86	101	125	139	103	84	43	36	55	105	67	75
Critical (15%)	52	76	106	109	78	50	30	24	30	45	61	58

Alternative 5

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	106	174	154	153	146	153	59	68	128	155	132	106
20%	94	153	151	134	134	138	41	44	103	140	121	105
30%	85	140	142	120	116	109	35	40	86	122	113	102
40%	75	126	135	114	104	99	32	37	77	115	110	95
50%	72	106	128	110	94	75	30	33	65	105	102	90
60%	69	92	123	104	86	65	29	30	57	94	94	76
70%	63	74	115	95	71	61	24	22	46	88	80	70
80%	59	65	92	83	46	48	18	16	32	74	63	58
90%	54	56	68	71	32	22	13	12	24	50	49	47
Long Term												
Full Simulation Period[b]	76	110	121	109	92	86	33	36	71	103	95	82
Water Year Types[c]												
Wet (32%)	81	129	131	125	124	123	50	58	113	132	119	93
Above Normal (16%)	75	112	122	100	90	104	35	40	84	100	107	86
Below Normal (13%)	76	122	132	107	90	77	28	30	62	106	100	96
Dry (24%)	74	101	121	108	77	64	23	21	43	96	71	74
Critical (15%)	69	73	86	88	54	30	13	13	22	56	64	56

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-23%	14%	-5%	-12%	-23%	5%	-29%	-25%	12%	-5%	-26%	-3%
20%	-22%	9%	-5%	-20%	-10%	8%	-49%	-31%	0%	-10%	-21%	-2%
30%	-28%	1%	-10%	-27%	-18%	6%	-56%	-32%	-10%	-17%	-15%	-4%
40%	-22%	-4%	-13%	-30%	-25%	21%	-57%	-31%	-16%	-18%	-14%	-10%
50%	-2%	-14%	-16%	-31%	-30%	9%	-57%	-29%	-25%	-20%	-17%	-14%
60%	7%	-15%	-14%	-34%	-13%	-2%	-55%	-32%	-26%	-20%	-15%	-15%
70%	16%	-22%	-10%	-35%	-8%	-2%	-52%	-42%	-28%	-9%	-5%	-16%
80%	33%	-16%	-23%	-33%	-4%	-8%	-49%	-42%	-26%	-15%	16%	-15%
90%	70%	-16%	-21%	-4%	27%	-22%	-40%	-48%	-6%	20%	27%	-4%
Long Term												
Full Simulation Period[b]	-10%	-3%	-12%	-26%	-19%	2%	-47%	-28%	-8%	-13%	-16%	-11%
Water Year Types[c]												
Wet (32%)	-18%	-2%	-16%	-26%	-10%	27%	-37%	-15%	10%	-9%	-20%	-15%
Above Normal (16%)	3%	-3%	-10%	-32%	-32%	12%	-56%	-31%	-16%	-23%	-21%	-25%
Below Normal (13%)	-18%	-10%	-11%	-32%	-9%	-9%	-54%	-42%	-25%	-28%	-28%	3%
Dry (24%)	-14%	0%	-3%	-22%	-25%	-24%	-47%	-41%	-21%	-9%	6%	-2%
Critical (15%)	31%	-4%	-18%	-19%	-31%	-39%	-57%	-44%	-25%	24%	5%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.2.19 CVP Net Energy Use

Table 5C.3.2.19.1 CVP Net Generation, Monthly Net Generation

No Action Alternative

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	324	257	523	556	567	564	449	560	543	664	474	528
20%	283	220	218	372	491	444	355	513	500	624	446	491
30%	249	195	116	257	358	262	325	468	476	596	427	366
40%	216	162	72	147	163	169	304	441	452	558	418	344
50%	200	112	49	104	110	150	285	424	438	537	405	246
60%	154	96	42	71	94	133	270	404	426	508	381	198
70%	134	71	30	50	71	109	248	383	410	480	366	183
80%	119	56	18	37	54	95	225	327	377	450	347	150
90%	86	40	-1	24	36	72	198	262	332	400	302	104
Long Term												
Full Simulation Period[b]	197	145	139	209	230	243	307	420	443	530	393	295
Water Year Types[c]												
Wet (32%)	236	193	311	433	389	435	397	522	455	551	423	504
Above Normal (16%)	193	143	136	223	363	263	334	443	459	608	419	334
Below Normal (13%)	231	137	43	79	181	144	288	422	478	573	423	198
Dry (24%)	178	128	34	74	67	119	233	376	469	518	391	174
Critical (15%)	118	76	34	48	59	104	221	249	323	380	276	89

Revised Alternative 1

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	284	162	524	558	598	565	406	564	602	639	479	291
20%	242	130	268	409	492	482	323	519	571	620	466	257
30%	197	106	114	286	291	296	292	481	531	602	441	228
40%	172	88	75	135	201	194	272	463	503	585	423	217
50%	164	81	46	72	113	155	255	436	482	549	408	203
60%	154	74	32	37	81	129	236	407	465	524	395	191
70%	141	61	21	19	58	106	215	386	452	497	372	181
80%	115	51	9	11	24	83	199	340	410	463	358	156
90%	97	33	-13	-10	-6	63	170	288	366	399	319	103
Long Term												
Full Simulation Period[b]	173	102	142	187	220	251	277	431	489	540	404	215
Water Year Types[c]												
Wet (32%)	198	138	337	413	394	455	351	519	522	555	428	293
Above Normal (16%)	167	99	110	211	348	305	266	454	515	612	437	225
Below Normal (13%)	192	85	37	70	183	160	265	440	529	577	438	210
Dry (24%)	162	82	34	39	46	95	223	393	488	534	395	177
Critical (15%)	129	72	28	25	30	91	227	273	356	407	301	103

Revised Alternative 1 minus No Action Alternative

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-12%	-37%	0%	0%	5%	0%	-10%	1%	11%	-4%	1%	-45%
20%	-14%	-41%	23%	10%	0%	9%	-9%	1%	14%	-1%	5%	-48%
30%	-21%	-45%	-2%	11%	-19%	13%	-10%	3%	11%	1%	3%	-38%
40%	-20%	-45%	4%	-8%	24%	15%	-11%	5%	11%	5%	1%	-37%
50%	-18%	-28%	-6%	-31%	3%	3%	-10%	3%	10%	2%	1%	-18%
60%	0%	-23%	-24%	-48%	-14%	-3%	-13%	1%	9%	3%	4%	-4%
70%	5%	-14%	-30%	-62%	-18%	-3%	-13%	1%	10%	4%	2%	-1%
80%	-4%	-8%	-47%	-72%	-56%	-13%	-12%	4%	9%	3%	3%	4%
90%	13%	-18%	1847%	-141%	-117%	-14%	-14%	10%	10%	0%	6%	-1%
Long Term												
Full Simulation Period[b]	-12%	-30%	2%	-10%	-4%	3%	-10%	3%	10%	2%	3%	-27%
Water Year Types[c]												
Wet (32%)	-16%	-29%	8%	-5%	1%	5%	-12%	-1%	15%	1%	1%	-42%
Above Normal (16%)	-13%	-31%	-20%	-5%	-4%	16%	-20%	2%	12%	1%	4%	-33%
Below Normal (13%)	-17%	-37%	-13%	-12%	1%	11%	-8%	4%	11%	1%	4%	6%
Dry (24%)	-9%	-36%	-1%	-48%	-31%	-20%	-4%	4%	4%	3%	1%	2%
Critical (15%)	9%	-5%	-16%	-49%	-49%	-13%	3%	10%	10%	7%	9%	16%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.19.2 CVP Net Generation, Monthly Net Generation

Revised Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	284	162	524	558	598	565	406	564	602	639	479	291
20%	242	130	268	409	492	482	323	519	571	620	466	257
30%	197	106	114	286	291	296	292	481	531	602	441	228
40%	172	88	75	135	201	194	272	463	503	585	423	217
50%	164	81	46	72	113	155	255	436	482	549	408	203
60%	154	74	32	37	81	129	236	407	465	524	395	191
70%	141	61	21	19	58	106	215	386	452	497	372	181
80%	115	51	9	11	24	83	199	340	410	463	358	156
90%	97	33	-13	-10	-6	63	170	288	366	399	319	103
Long Term												
Full Simulation Period[b]	173	102	142	187	220	251	277	431	489	540	404	215
Water Year Types[c]												
Wet (32%)	198	138	337	413	394	455	351	519	522	555	428	293
Above Normal (16%)	167	99	110	211	348	305	266	454	515	612	437	225
Below Normal (13%)	192	85	37	70	183	160	265	440	529	577	438	210
Dry (24%)	162	82	34	39	46	95	223	393	488	534	395	177
Critical (15%)	129	72	28	25	30	91	227	273	356	407	301	103

No Action Alternative

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	324	257	523	556	567	564	449	560	543	664	474	528
20%	283	220	218	372	491	444	355	513	500	624	446	491
30%	249	195	116	257	358	262	325	468	476	596	427	366
40%	216	162	72	147	163	169	304	441	452	558	418	344
50%	200	112	49	104	110	150	285	424	438	537	405	246
60%	154	96	42	71	94	133	270	404	426	508	381	198
70%	134	71	30	50	71	109	248	383	410	480	366	183
80%	119	56	18	37	54	95	225	327	377	450	347	150
90%	86	40	-1	24	36	72	198	262	332	400	302	104
Long Term												
Full Simulation Period[b]	197	145	139	209	230	243	307	420	443	530	393	295
Water Year Types[c]												
Wet (32%)	236	193	311	433	389	435	397	522	455	551	423	504
Above Normal (16%)	193	143	136	223	363	263	334	443	459	608	419	334
Below Normal (13%)	231	137	43	79	181	144	288	422	478	573	423	198
Dry (24%)	178	128	34	74	67	119	233	376	469	518	391	174
Critical (15%)	118	76	34	48	59	104	221	249	323	380	276	89

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14%	59%	0%	0%	-5%	0%	11%	-1%	-10%	4%	-1%	81%
20%	17%	69%	-19%	-9%	0%	-8%	10%	-1%	-12%	1%	-4%	91%
30%	26%	83%	2%	-10%	23%	-11%	11%	-3%	-10%	-1%	-3%	61%
40%	26%	83%	-4%	8%	-19%	-13%	12%	-5%	-10%	-5%	-1%	59%
50%	22%	38%	7%	45%	-3%	-3%	12%	-3%	-9%	-2%	-1%	21%
60%	0%	30%	31%	91%	16%	3%	14%	-1%	-8%	-3%	-3%	4%
70%	-5%	16%	43%	162%	22%	3%	16%	-1%	-9%	-3%	-2%	1%
80%	4%	9%	89%	254%	130%	15%	13%	-4%	-8%	-3%	-3%	-4%
90%	-11%	21%	-95%	-341%	-681%	16%	16%	-9%	-9%	0%	-5%	1%
Long Term												
Full Simulation Period[b]	14%	42%	-2%	12%	4%	-3%	11%	-2%	-9%	-2%	-3%	37%
Water Year Types[c]												
Wet (32%)	19%	40%	-8%	5%	-1%	-4%	13%	1%	-13%	-1%	-1%	72%
Above Normal (16%)	15%	44%	24%	6%	4%	-14%	26%	-2%	-11%	-1%	-4%	49%
Below Normal (13%)	20%	60%	15%	14%	-1%	-10%	9%	-4%	-10%	-1%	-3%	-6%
Dry (24%)	10%	56%	1%	93%	45%	25%	4%	-4%	-4%	-3%	-1%	-2%
Critical (15%)	-8%	5%	20%	96%	95%	14%	-3%	-9%	-9%	-7%	-8%	-14%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.19.3 CVP Net Generation, Monthly Net Generation

Revised Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	284	162	524	558	598	565	406	564	602	639	479	291
20%	242	130	268	409	492	482	323	519	571	620	466	257
30%	197	106	114	286	291	296	292	481	531	602	441	228
40%	172	88	75	135	201	194	272	463	503	585	423	217
50%	164	81	46	72	113	155	255	436	482	549	408	203
60%	154	74	32	37	81	129	236	407	465	524	395	191
70%	141	61	21	19	58	106	215	386	452	497	372	181
80%	115	51	9	11	24	83	199	340	410	463	358	156
90%	97	33	-13	-10	-6	63	170	288	366	399	319	103
Long Term												
Full Simulation Period[b]	173	102	142	187	220	251	277	431	489	540	404	215
Water Year Types[c]												
Wet (32%)	198	138	337	413	394	455	351	519	522	555	428	293
Above Normal (16%)	167	99	110	211	348	305	266	454	515	612	437	225
Below Normal (13%)	192	85	37	70	183	160	265	440	529	577	438	210
Dry (24%)	162	82	34	39	46	95	223	393	488	534	395	177
Critical (15%)	129	72	28	25	30	91	227	273	356	407	301	103

Alternative 3

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	291	182	530	558	606	583	437	534	563	674	481	336
20%	235	125	266	480	511	511	316	479	531	638	465	266
30%	193	104	114	332	334	287	298	459	508	622	441	246
40%	173	91	74	160	183	189	268	439	473	596	424	216
50%	158	77	52	112	122	150	251	392	448	544	409	205
60%	147	66	39	72	84	122	229	374	433	528	387	195
70%	133	60	25	51	71	106	216	348	411	506	374	181
80%	113	52	12	36	56	92	200	316	387	469	362	155
90%	88	31	-6	18	41	71	174	260	340	397	326	104
Long Term												
Full Simulation Period[b]	172	102	150	224	241	250	275	400	457	549	406	217
Water Year Types[c]												
Wet (32%)	197	137	349	456	402	443	347	475	467	572	436	294
Above Normal (16%)	166	109	123	257	381	276	269	408	475	621	429	230
Below Normal (13%)	190	81	42	117	198	167	276	418	493	588	440	221
Dry (24%)	160	81	36	67	71	115	217	372	478	537	396	177
Critical (15%)	125	73	35	45	60	108	223	260	346	402	305	101

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	**13%**	1%	0%	1%	3%	**8%**	**-5%**	**-6%**	**5%**	0%	**15%**
20%	-3%	-4%	-1%	**17%**	4%	**6%**	-2%	**-8%**	**-7%**	3%	0%	3%
30%	-2%	-2%	0%	**16%**	**15%**	-3%	2%	-4%	-4%	3%	0%	**8%**
40%	1%	3%	-2%	**18%**	**-9%**	-2%	-1%	**-5%**	**-6%**	2%	0%	-1%
50%	-4%	-4%	**12%**	**56%**	**8%**	-3%	-2%	**-10%**	**-7%**	-1%	0%	1%
60%	-5%	**-11%**	**20%**	**94%**	3%	**-5%**	-3%	**-8%**	**-7%**	1%	-2%	2%
70%	**-6%**	-2%	**19%**	**166%**	**23%**	-1%	1%	**-10%**	**-9%**	2%	1%	0%
80%	-2%	1%	**23%**	**241%**	**136%**	**11%**	0%	**-7%**	**-6%**	1%	1%	0%
90%	**-9%**	-5%	**-57%**	**-278%**	**-768%**	**14%**	3%	**-10%**	**-7%**	-1%	2%	1%
Long Term												
Full Simulation Period[b]	-1%	0%	**6%**	**20%**	**9%**	0%	-1%	**-7%**	**-7%**	2%	1%	1%
Water Year Types[c]												
Wet (32%)	0%	0%	4%	**11%**	2%	-3%	-1%	**-8%**	**-10%**	3%	2%	0%
Above Normal (16%)	-1%	**10%**	**12%**	**22%**	**9%**	**-10%**	1%	**-10%**	**-8%**	2%	-2%	3%
Below Normal (13%)	-1%	**-5%**	**14%**	**68%**	**8%**	4%	4%	-5%	**-7%**	2%	0%	**5%**
Dry (24%)	-2%	-2%	**7%**	**74%**	**53%**	**21%**	-3%	**-5%**	-2%	1%	0%	0%
Critical (15%)	-3%	0%	**22%**	**83%**	**97%**	**19%**	-2%	-5%	-3%	-1%	1%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.2.19.4 CVP Net Generation, Monthly Net Generation

Revised Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	284	162	524	558	598	565	406	564	602	639	479	291
20%	242	130	268	409	492	482	323	519	571	620	466	257
30%	197	106	114	286	291	296	292	481	531	602	441	228
40%	172	88	75	135	201	194	272	463	503	585	423	217
50%	164	81	46	72	113	155	255	436	482	549	408	203
60%	154	74	32	37	81	129	236	407	465	524	395	191
70%	141	61	21	19	58	106	215	386	452	497	372	181
80%	115	51	9	11	24	83	199	340	410	463	358	156
90%	97	33	-13	-10	-6	63	170	288	366	399	319	103
Long Term												
Full Simulation Period[b]	173	102	142	187	220	251	277	431	489	540	404	215
Water Year Types[c]												
Wet (32%)	198	138	337	413	394	455	351	519	522	555	428	293
Above Normal (16%)	167	99	110	211	348	305	266	454	515	612	437	225
Below Normal (13%)	192	85	37	70	183	160	265	440	529	577	438	210
Dry (24%)	162	82	34	39	46	95	223	393	488	534	395	177
Critical (15%)	129	72	28	25	30	91	227	273	356	407	301	103

Alternative 5

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	323	255	511	557	567	559	451	559	528	654	468	527
20%	285	219	219	356	495	444	360	514	496	620	442	495
30%	233	186	113	253	363	270	330	469	475	589	426	365
40%	217	160	72	146	159	168	310	447	450	551	415	343
50%	194	116	48	104	107	148	294	426	437	531	402	243
60%	158	99	39	72	92	131	274	409	424	509	377	199
70%	134	71	28	52	67	105	254	389	404	485	366	177
80%	110	57	18	38	52	84	237	323	368	425	346	146
90%	84	31	-2	25	35	72	210	288	322	396	304	107
Long Term												
Full Simulation Period[b]	197	144	137	208	229	242	315	427	438	524	390	296
Water Year Types[c]												
Wet (32%)	233	191	307	433	388	431	397	527	454	553	419	506
Above Normal (16%)	190	142	136	221	364	264	335	449	458	608	416	333
Below Normal (13%)	230	135	42	79	175	144	305	428	471	569	420	198
Dry (24%)	179	130	32	75	67	119	250	383	461	508	388	173
Critical (15%)	123	76	34	47	56	102	237	257	314	358	273	97

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14%	58%	-2%	0%	-5%	-1%	11%	-1%	-12%	2%	-2%	81%
20%	18%	68%	-18%	-13%	1%	-8%	11%	-1%	-13%	0%	-5%	92%
30%	18%	74%	0%	-12%	25%	-9%	13%	-2%	-10%	-2%	-4%	60%
40%	26%	80%	-5%	8%	-21%	-14%	14%	-3%	-10%	-6%	-2%	58%
50%	18%	44%	3%	44%	-6%	-5%	15%	-2%	-9%	-3%	-1%	20%
60%	2%	33%	21%	94%	13%	2%	16%	1%	-9%	-3%	-5%	4%
70%	-5%	16%	31%	167%	15%	-1%	18%	1%	-11%	-2%	-2%	-2%
80%	-5%	11%	88%	259%	122%	1%	19%	-5%	-10%	-8%	-3%	-6%
90%	-13%	-6%	-86%	-350%	-678%	15%	24%	0%	-12%	-1%	-5%	4%
Long Term												
Full Simulation Period[b]	13%	42%	-3%	12%	4%	-4%	14%	-1%	-10%	-3%	-4%	38%
Water Year Types[c]												
Wet (32%)	18%	39%	-9%	5%	-1%	-5%	13%	1%	-13%	0%	-2%	73%
Above Normal (16%)	14%	43%	24%	5%	4%	-14%	26%	-1%	-11%	-1%	-5%	48%
Below Normal (13%)	20%	58%	12%	13%	-5%	-10%	15%	-3%	-11%	-1%	-4%	-6%
Dry (24%)	11%	58%	-5%	95%	45%	25%	12%	-3%	-6%	-5%	-2%	-2%
Critical (15%)	-5%	6%	19%	91%	84%	12%	4%	-6%	-12%	-12%	-9%	-6%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.2.20 Stanislaus River Percent Mortality – Fall-run Chinook Salmon

Table 5C.3.2.20 Stanislaus River Percent Mortality - Fall-Run Chinook Salmon

	Percent Mortality	Difference from No Action Alternative	Difference from Second Basis of Comparison
	%	%	%
No Action Alternative			
Long-term Average	7.0	---	0.4
Wet	1.6	---	0.1
Above Normal	5.3	---	1.1
Below Normal	4.4	---	0.5
Dry	4.9	---	-0.3
Critical	14.4	---	0.4
Second Basis of Comparison			
Long-term Average	6.6	-0.4	
Wet	1.5	-0.1	---
Above Normal	4.3	-1.1	---
Below Normal	4.0	-0.5	---
Dry	5.1	0.3	---
Critical	14.0	-0.4	---
Alternative 3			
Long-term Average	6.2	-0.8	-0.4
Wet	1.6	0.0	0.1
Above Normal	4.0	-1.3	-0.3
Below Normal	3.8	-0.6	-0.2
Dry	4.2	-0.7	-0.9
Critical	13.4	-1.0	-0.6
Alternative 5			
Long-term Average	8.5	1.5	1.9
Wet	1.8	0.2	0.3
Above Normal	6.4	1.1	2.1
Below Normal	6.1	1.6	2.1
Dry	7.0	2.2	1.9
Critical	16.9	2.5	2.9

Notes: All results are based on the 82-year simulation period. The water year types are defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

5C.3.2.21 New Melones Large Mouth Bass Nest Survival Percentage

Table 5C.3.2.21.1 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	66	38	80
20%	100	100	100	100	100	100	100	100	100	49	30	64
30%	84	100	100	100	100	100	100	100	100	31	25	59
40%	74	100	100	100	100	100	100	100	100	25	23	57
50%	67	100	100	100	100	100	80	100	98	22	20	55
60%	59	100	100	100	100	100	72	100	63	18	19	50
70%	50	100	100	100	100	100	49	40	42	13	16	43
80%	43	100	100	100	100	100	27	29	27	10	12	38
90%	29	100	100	100	100	100	13	14	15	1	4	34
Long Term												
Full Simulation Period[b]	66	99	100	100	97	95	68	72	69	29	23	54
Water Year Types[c]												
Wet (23%)	67	100	100	100	96	94	83	98	95	47	24	51
Above Normal (24%)	74	100	100	100	100	100	88	100	72	26	20	60
Below Normal (10%)	60	100	100	100	98	95	58	65	61	22	19	58
Dry (16%)	63	99	100	100	97	98	66	51	54	14	16	49
Critical (27%)	65	97	100	100	93	87	29	25	43	28	37	58

Revised Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	53	33	74
20%	100	100	100	100	100	100	100	100	100	38	30	65
30%	100	100	100	100	100	100	100	100	100	31	29	59
40%	100	100	100	100	100	100	100	100	100	27	26	57
50%	100	100	100	100	100	100	100	100	93	24	23	54
60%	100	100	100	100	100	100	86	100	63	22	21	51
70%	100	100	100	100	100	100	69	53	44	19	17	47
80%	97	100	100	100	100	100	49	43	31	16	11	39
90%	90	100	100	100	100	100	36	24	21	12	7	23
Long Term												
Full Simulation Period[b]	97	100	100	100	97	97	79	76	71	29	22	54
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	97	91	98	96	41	22	47
Above Normal (24%)	96	99	100	100	100	100	93	100	72	29	23	61
Below Normal (10%)	96	100	100	100	98	100	74	73	65	25	22	57
Dry (16%)	96	99	100	100	96	98	81	60	58	20	21	53
Critical (27%)	99	100	100	100	96	87	42	34	40	19	20	57

Revised Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-20%**	**-13%**	**-8%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-24%**	2%	1%
30%	**19%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	**15%**	0%
40%	**35%**	0%	0%	0%	0%	0%	0%	0%	0%	**6%**	**16%**	0%
50%	**48%**	0%	0%	0%	0%	0%	**26%**	0%	-5%	**5%**	**13%**	0%
60%	**70%**	0%	0%	0%	0%	0%	**20%**	0%	-1%	**19%**	**11%**	3%
70%	**99%**	0%	0%	0%	0%	0%	**41%**	**32%**	**7%**	**50%**	2%	**8%**
80%	**126%**	0%	0%	0%	0%	0%	**85%**	**48%**	**12%**	**62%**	-4%	2%
90%	**215%**	0%	0%	0%	0%	0%	**183%**	**75%**	**42%**	**888%**	**93%**	**-32%**
Long Term												
Full Simulation Period[b]	**48%**	0%	0%	0%	0%	2%	**17%**	**7%**	2%	-3%	-4%	-1%
Water Year Types[c]												
Wet (23%)	**49%**	0%	0%	0%	0%	4%	**10%**	0%	2%	**-14%**	**-7%**	**-8%**
Above Normal (24%)	**31%**	0%	0%	0%	0%	0%	**6%**	0%	0%	**13%**	**16%**	1%
Below Normal (10%)	**59%**	0%	0%	0%	0%	**5%**	**28%**	**12%**	**6%**	**11%**	**16%**	0%
Dry (16%)	**51%**	0%	0%	0%	0%	0%	**22%**	**18%**	**7%**	**48%**	**29%**	**8%**
Critical (27%)	**53%**	3%	0%	0%	3%	0%	**47%**	**34%**	**-7%**	**-32%**	**-45%**	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.21.2 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	53	33	74
20%	100	100	100	100	100	100	100	100	100	38	30	65
30%	100	100	100	100	100	100	100	100	100	31	29	59
40%	100	100	100	100	100	100	100	100	100	27	26	57
50%	100	100	100	100	100	100	100	100	93	24	23	54
60%	100	100	100	100	100	100	86	100	63	22	21	51
70%	100	100	100	100	100	100	69	53	44	19	17	47
80%	97	100	100	100	100	100	49	43	31	16	11	39
90%	90	100	100	100	100	100	36	24	21	12	7	23
Long Term												
Full Simulation Period[b]	97	100	100	100	97	97	79	76	71	29	22	54
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	97	91	98	96	41	22	47
Above Normal (24%)	96	99	100	100	100	100	93	100	72	29	23	61
Below Normal (10%)	96	100	100	100	98	100	74	73	65	25	22	57
Dry (16%)	96	99	100	100	96	98	81	60	58	20	21	53
Critical (27%)	99	100	100	100	96	87	42	34	40	19	20	57

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	66	38	80
20%	100	100	100	100	100	100	100	100	100	49	30	64
30%	84	100	100	100	100	100	100	100	100	31	25	59
40%	74	100	100	100	100	100	100	100	100	25	23	57
50%	67	100	100	100	100	100	80	100	98	22	20	55
60%	59	100	100	100	100	100	72	100	63	18	19	50
70%	50	100	100	100	100	100	49	40	42	13	16	43
80%	43	100	100	100	100	100	27	29	27	10	12	38
90%	29	100	100	100	100	100	13	14	15	1	4	34
Long Term												
Full Simulation Period[b]	66	99	100	100	97	95	68	72	69	29	23	54
Water Year Types[c]												
Wet (23%)	67	100	100	100	96	94	83	98	95	47	24	51
Above Normal (24%)	74	100	100	100	100	100	88	100	72	26	20	60
Below Normal (10%)	60	100	100	100	98	95	58	65	61	22	19	58
Dry (16%)	63	99	100	100	97	98	66	51	54	14	16	49
Critical (27%)	65	97	100	100	93	87	29	25	43	28	37	58

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**25%**	**15%**	**8%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**32%**	-2%	-1%
30%	**-16%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-13%**	0%
40%	**-26%**	0%	0%	0%	0%	0%	0%	0%	0%	**-6%**	**-14%**	0%
50%	**-33%**	0%	0%	0%	0%	0%	**-20%**	0%	**5%**	-5%	**-12%**	0%
60%	**-41%**	0%	0%	0%	0%	0%	**-17%**	0%	1%	**-16%**	**-10%**	-3%
70%	**-50%**	0%	0%	0%	0%	0%	**-29%**	**-24%**	**-6%**	**-33%**	-2%	**-7%**
80%	**-56%**	0%	0%	0%	0%	0%	**-46%**	**-32%**	**-11%**	**-38%**	5%	-2%
90%	**-68%**	0%	0%	0%	0%	0%	**-65%**	**-43%**	**-30%**	**-90%**	**-48%**	**47%**
Long Term												
Full Simulation Period[b]	**-32%**	0%	0%	0%	0%	-2%	**-14%**	**-6%**	-2%	3%	4%	1%
Water Year Types[c]												
Wet (23%)	**-33%**	0%	0%	0%	0%	-3%	**-9%**	0%	-2%	**16%**	**8%**	**9%**
Above Normal (24%)	**-23%**	0%	0%	0%	0%	0%	**-6%**	0%	0%	**-12%**	**-13%**	-1%
Below Normal (10%)	**-37%**	0%	0%	0%	0%	**-5%**	**-22%**	**-11%**	**-6%**	**-10%**	**-14%**	0%
Dry (16%)	**-34%**	0%	0%	0%	0%	0%	**-18%**	**-16%**	**-7%**	**-32%**	**-22%**	**-7%**
Critical (27%)	**-35%**	-3%	0%	0%	-3%	0%	**-32%**	**-25%**	**7%**	**46%**	**81%**	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.21.3 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	53	33	74
20%	100	100	100	100	100	100	100	100	100	38	30	65
30%	100	100	100	100	100	100	100	100	100	31	29	59
40%	100	100	100	100	100	100	100	100	100	27	26	57
50%	100	100	100	100	100	100	100	100	93	24	23	54
60%	100	100	100	100	100	100	86	100	63	22	21	51
70%	100	100	100	100	100	100	69	53	44	19	17	47
80%	97	100	100	100	100	100	49	43	31	16	11	39
90%	90	100	100	100	100	100	36	24	21	12	7	23
Long Term												
Full Simulation Period[b]	97	100	100	100	97	97	79	76	71	29	22	54
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	97	91	98	96	41	22	47
Above Normal (24%)	96	99	100	100	100	100	93	100	72	29	23	61
Below Normal (10%)	96	100	100	100	98	100	74	73	65	25	22	57
Dry (16%)	96	99	100	100	96	98	81	60	58	20	21	53
Critical (27%)	99	100	100	100	96	87	42	34	40	19	20	57

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	43	78
20%	100	100	100	100	100	100	100	100	100	57	37	69
30%	100	100	100	100	100	100	100	100	100	43	29	61
40%	100	100	100	100	100	100	100	100	100	31	27	56
50%	100	100	100	100	100	100	97	100	100	24	23	55
60%	100	100	100	100	100	100	75	92	55	21	20	48
70%	100	100	100	100	100	100	57	44	35	18	18	42
80%	94	100	100	100	100	100	43	21	28	11	11	31
90%	84	100	100	100	100	100	23	0	14	0	0	23
Long Term												
Full Simulation Period[b]	95	99	99	100	99	96	73	70	67	35	24	51
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	98	92	91	77	66	30	53
Above Normal (24%)	98	99	100	100	100	100	94	100	90	34	22	58
Below Normal (10%)	96	100	91	100	100	100	62	73	64	23	18	56
Dry (16%)	89	100	100	100	100	98	68	46	59	16	20	42
Critical (27%)	94	97	100	100	100	83	30	30	40	15	25	50

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**88%**	**33%**	**6%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**52%**	**21%**	**6%**
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**37%**	2%	3%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**18%**	2%	-1%
50%	0%	0%	0%	0%	0%	0%	-3%	0%	**7%**	1%	0%	0%
60%	0%	0%	0%	0%	0%	0%	**-13%**	**-8%**	**-13%**	**-5%**	-4%	**-6%**
70%	0%	0%	0%	0%	0%	0%	**-18%**	**-17%**	**-21%**	**-8%**	**8%**	**-9%**
80%	-3%	0%	0%	0%	0%	0%	**-14%**	**-53%**	**-10%**	**-29%**	**-5%**	**-20%**
90%	**-7%**	0%	0%	0%	0%	0%	**-36%**	**-98%**	**-34%**	**-100%**	**-99%**	1%
Long Term												
Full Simulation Period[b]	-2%	0%	-1%	0%	2%	-1%	**-8%**	**-8%**	-5%	**24%**	**10%**	-4%
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	0%	0%	1%	**-7%**	**-20%**	**62%**	**34%**	**12%**
Above Normal (24%)	2%	0%	0%	0%	0%	0%	1%	0%	**24%**	**17%**	**-6%**	-4%
Below Normal (10%)	0%	0%	**-9%**	0%	2%	0%	**-17%**	-1%	-1%	**-7%**	**-18%**	-2%
Dry (16%)	**-7%**	1%	0%	0%	4%	0%	**-16%**	**-23%**	1%	**-22%**	-4%	**-20%**
Critical (27%)	-5%	-3%	0%	0%	4%	-5%	**-28%**	**-10%**	2%	**-19%**	**25%**	**-12%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.21.4 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	53	33	74
20%	100	100	100	100	100	100	100	100	100	38	30	65
30%	100	100	100	100	100	100	100	100	100	31	29	59
40%	100	100	100	100	100	100	100	100	100	27	26	57
50%	100	100	100	100	100	100	100	100	93	24	23	54
60%	100	100	100	100	100	100	86	100	63	22	21	51
70%	100	100	100	100	100	100	69	53	44	19	17	47
80%	97	100	100	100	100	100	49	43	31	16	11	39
90%	90	100	100	100	100	100	36	24	21	12	7	23
Long Term												
Full Simulation Period[b]	97	100	100	100	97	97	79	76	71	29	22	54
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	97	91	98	96	41	22	47
Above Normal (24%)	96	99	100	100	100	100	93	100	72	29	23	61
Below Normal (10%)	96	100	100	100	98	100	74	73	65	25	22	57
Dry (16%)	96	99	100	100	96	98	81	60	58	20	21	53
Critical (27%)	99	100	100	100	96	87	42	34	40	19	20	57

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	75	36	98
20%	100	100	100	100	100	100	100	100	100	42	24	62
30%	88	100	100	100	100	100	100	100	100	30	22	57
40%	75	100	100	100	100	100	100	100	100	23	20	55
50%	69	100	100	100	100	100	72	100	100	20	19	50
60%	57	100	100	100	100	100	43	60	79	16	16	44
70%	51	100	100	100	100	100	24	29	43	12	11	39
80%	46	100	100	100	100	100	10	1	25	5	5	35
90%	35	100	100	100	100	95	0	0	7	0	0	13
Long Term												
Full Simulation Period[b]	67	100	100	100	98	95	60	64	70	28	21	50
Water Year Types[c]												
Wet (23%)	71	100	100	100	96	95	87	93	97	41	19	47
Above Normal (24%)	73	99	100	100	100	100	79	94	61	21	17	53
Below Normal (10%)	58	100	100	100	98	95	50	58	59	18	14	44
Dry (16%)	58	99	100	100	100	98	45	37	52	10	13	45
Critical (27%)	73	100	100	100	99	85	14	19	60	44	50	67

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**40%**	**10%**	**33%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**11%**	**-21%**	-4%
30%	**-12%**	0%	0%	0%	0%	0%	0%	0%	0%	-3%	**-24%**	-4%
40%	**-25%**	0%	0%	0%	0%	0%	0%	0%	0%	**-13%**	**-25%**	-3%
50%	**-31%**	0%	0%	0%	0%	0%	**-28%**	0%	**7%**	**-16%**	**-19%**	**-8%**
60%	**-43%**	0%	0%	0%	0%	0%	**-50%**	**-40%**	**26%**	**-27%**	**-21%**	**-14%**
70%	**-49%**	0%	0%	0%	0%	0%	**-65%**	**-45%**	-3%	**-38%**	**-33%**	**-16%**
80%	**-53%**	0%	0%	0%	0%	0%	**-80%**	**-97%**	**-19%**	**-72%**	**-53%**	**-10%**
90%	**-62%**	0%	0%	0%	0%	-5%	**-100%**	**-100%**	**-66%**	**-99%**	**-99%**	**-44%**
Long Term												
Full Simulation Period[b]	**-31%**	0%	0%	0%	1%	-2%	**-25%**	**-16%**	-1%	-3%	-3%	**-7%**
Water Year Types[c]												
Wet (23%)	**-28%**	0%	0%	0%	0%	-3%	-5%	**-5%**	1%	1%	**-14%**	-1%
Above Normal (24%)	**-24%**	0%	0%	0%	0%	0%	**-15%**	**-6%**	**-16%**	**-29%**	**-27%**	**-12%**
Below Normal (10%)	**-40%**	0%	0%	0%	0%	**-5%**	**-33%**	**-21%**	**-9%**	**-27%**	**-39%**	**-24%**
Dry (16%)	**-39%**	0%	0%	0%	4%	0%	**-45%**	**-38%**	**-9%**	**-51%**	**-39%**	**-15%**
Critical (27%)	**-26%**	0%	0%	0%	3%	-2%	**-67%**	**-43%**	**51%**	**134%**	**148%**	**17%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.22 New Melones Small Mouth Bass Nest Survival Percentage

Table 5C.3.2.22.1 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	56	32	67
20%	84	100	100	100	100	100	100	100	100	42	26	54
30%	71	100	100	100	100	100	100	100	100	27	22	50
40%	62	100	100	100	100	100	100	100	100	22	20	48
50%	57	100	100	100	100	100	67	100	86	20	18	46
60%	50	100	100	100	100	100	60	91	53	16	17	42
70%	43	100	100	100	100	100	42	34	35	12	15	37
80%	37	100	100	100	100	100	23	25	24	9	11	33
90%	25	100	100	100	100	85	12	13	14	2	4	29
Long Term												
Full Simulation Period[b]	58	98	100	100	96	94	65	70	66	26	21	47
Water Year Types[c]												
Wet (23%)	59	100	100	100	96	93	81	97	93	42	21	43
Above Normal (24%)	64	98	100	100	100	100	86	99	68	22	18	52
Below Normal (10%)	54	100	100	100	97	94	55	63	59	19	17	50
Dry (16%)	55	97	100	100	97	98	59	48	50	12	15	43
Critical (27%)	58	95	100	99	92	82	26	23	40	25	36	53

Revised Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	45	28	62
20%	100	100	100	100	100	100	100	100	100	32	26	55
30%	100	100	100	100	100	100	100	100	100	27	25	50
40%	100	100	100	100	100	100	100	100	100	23	23	48
50%	100	100	100	100	100	100	100	100	78	21	20	46
60%	93	100	100	100	100	100	72	100	53	19	18	43
70%	88	100	100	100	100	100	58	45	38	17	15	40
80%	81	100	100	100	100	100	42	37	26	15	10	33
90%	76	92	100	100	100	100	31	21	19	11	7	20
Long Term												
Full Simulation Period[b]	92	98	100	100	96	96	75	74	67	25	19	46
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	97	88	98	94	36	20	40
Above Normal (24%)	92	97	100	100	100	100	92	100	68	25	20	53
Below Normal (10%)	86	99	100	100	97	100	69	70	62	22	20	50
Dry (16%)	88	97	100	100	96	98	75	55	53	18	18	46
Critical (27%)	98	96	100	100	94	83	37	30	37	17	18	49

Revised Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-19%**	**-13%**	**-8%**
20%	**19%**	0%	0%	0%	0%	0%	0%	0%	0%	**-23%**	2%	1%
30%	**42%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	**14%**	0%
40%	**61%**	0%	0%	0%	0%	0%	0%	0%	0%	**6%**	**15%**	0%
50%	**76%**	0%	0%	0%	0%	0%	**49%**	0%	**-10%**	5%	**12%**	0%
60%	**87%**	0%	0%	0%	0%	0%	**20%**	**10%**	-1%	**18%**	**11%**	3%
70%	**106%**	0%	0%	0%	0%	0%	**40%**	**31%**	**7%**	**45%**	2%	**7%**
80%	**122%**	0%	0%	0%	0%	0%	**81%**	**46%**	**11%**	**54%**	-4%	2%
90%	**204%**	**-8%**	0%	0%	0%	**18%**	**164%**	**67%**	**38%**	**399%**	**66%**	**-31%**
Long Term												
Full Simulation Period[b]	**59%**	0%	0%	0%	0%	2%	**17%**	**6%**	1%	-4%	**-6%**	-2%
Water Year Types[c]												
Wet (23%)	**61%**	0%	0%	0%	0%	4%	**9%**	0%	1%	**-14%**	**-6%**	**-8%**
Above Normal (24%)	**44%**	-1%	0%	0%	0%	0%	**8%**	1%	1%	**13%**	**14%**	1%
Below Normal (10%)	**61%**	-1%	0%	0%	0%	**6%**	**25%**	**13%**	**5%**	**10%**	**15%**	0%
Dry (16%)	**59%**	0%	0%	0%	0%	0%	**28%**	**16%**	**6%**	**43%**	**26%**	**8%**
Critical (27%)	**69%**	2%	0%	1%	2%	1%	**44%**	**30%**	**-9%**	**-34%**	**-50%**	**-7%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.22.2 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	45	28	62
20%	100	100	100	100	100	100	100	100	100	32	26	55
30%	100	100	100	100	100	100	100	100	100	27	25	50
40%	100	100	100	100	100	100	100	100	100	23	23	48
50%	100	100	100	100	100	100	100	100	78	21	20	46
60%	93	100	100	100	100	100	72	100	53	19	18	43
70%	88	100	100	100	100	100	58	45	38	17	15	40
80%	81	100	100	100	100	100	42	37	26	15	10	33
90%	76	92	100	100	100	100	31	21	19	11	7	20
Long Term												
Full Simulation Period[b]	92	98	100	100	96	96	75	74	67	25	19	46
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	97	88	98	94	36	20	40
Above Normal (24%)	92	97	100	100	100	100	92	100	68	25	20	53
Below Normal (10%)	86	99	100	100	97	100	69	70	62	22	20	50
Dry (16%)	88	97	100	100	96	98	75	55	53	18	18	46
Critical (27%)	98	96	100	100	94	83	37	30	37	17	18	49

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	56	32	67
20%	84	100	100	100	100	100	100	100	100	42	26	54
30%	71	100	100	100	100	100	100	100	100	27	22	50
40%	62	100	100	100	100	100	100	100	100	22	20	48
50%	57	100	100	100	100	100	67	100	86	20	18	46
60%	50	100	100	100	100	100	60	91	53	16	17	42
70%	43	100	100	100	100	100	42	34	35	12	15	37
80%	37	100	100	100	100	100	23	25	24	9	11	33
90%	25	100	100	100	100	85	12	13	14	2	4	29
Long Term												
Full Simulation Period[b]	58	98	100	100	96	94	65	70	66	26	21	47
Water Year Types[c]												
Wet (23%)	59	100	100	100	96	93	81	97	93	42	21	43
Above Normal (24%)	64	98	100	100	100	100	86	99	68	22	18	52
Below Normal (10%)	54	100	100	100	97	94	55	63	59	19	17	50
Dry (16%)	55	97	100	100	97	98	59	48	50	12	15	43
Critical (27%)	58	95	100	99	92	82	26	23	40	25	36	53

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**24%**	**15%**	**8%**
20%	**-16%**	0%	0%	0%	0%	0%	0%	0%	0%	**30%**	-2%	-1%
30%	**-29%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-12%**	0%
40%	**-38%**	0%	0%	0%	0%	0%	0%	0%	0%	**-5%**	**-13%**	0%
50%	**-43%**	0%	0%	0%	0%	0%	**-33%**	0%	**11%**	-5%	**-11%**	0%
60%	**-47%**	0%	0%	0%	0%	0%	**-17%**	**-9%**	1%	**-15%**	**-10%**	-3%
70%	**-51%**	0%	0%	0%	0%	0%	**-28%**	**-24%**	**-6%**	**-31%**	-2%	**-7%**
80%	**-55%**	0%	0%	0%	0%	0%	**-45%**	**-31%**	**-10%**	**-35%**	4%	-2%
90%	**-67%**	**9%**	0%	0%	0%	**-15%**	**-62%**	**-40%**	**-28%**	**-80%**	**-40%**	**44%**
Long Term												
Full Simulation Period[b]	**-37%**	0%	0%	0%	0%	-2%	**-14%**	**-6%**	-1%	4%	**7%**	2%
Water Year Types[c]												
Wet (23%)	**-38%**	0%	0%	0%	0%	-4%	**-8%**	0%	-1%	**16%**	**7%**	**8%**
Above Normal (24%)	**-30%**	1%	0%	0%	0%	0%	**-7%**	-1%	-1%	**-12%**	**-13%**	-1%
Below Normal (10%)	**-38%**	1%	0%	0%	0%	**-6%**	**-20%**	**-11%**	-5%	**-10%**	**-13%**	0%
Dry (16%)	**-37%**	0%	0%	0%	0%	0%	**-22%**	**-14%**	**-6%**	**-30%**	**-21%**	**-7%**
Critical (27%)	**-41%**	-2%	0%	-1%	-2%	-1%	**-30%**	**-23%**	**9%**	**51%**	**100%**	**8%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.22.3 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	45	28	62
20%	100	100	100	100	100	100	100	100	100	32	26	55
30%	100	100	100	100	100	100	100	100	100	27	25	50
40%	100	100	100	100	100	100	100	100	100	23	23	48
50%	100	100	100	100	100	100	100	100	78	21	20	46
60%	93	100	100	100	100	100	72	100	53	19	18	43
70%	88	100	100	100	100	100	58	45	38	17	15	40
80%	81	100	100	100	100	100	42	37	26	15	10	33
90%	76	92	100	100	100	100	31	21	19	11	7	20
Long Term												
Full Simulation Period[b]	92	98	100	100	96	96	75	74	67	25	19	46
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	97	88	98	94	36	20	40
Above Normal (24%)	92	97	100	100	100	100	92	100	68	25	20	53
Below Normal (10%)	86	99	100	100	97	100	69	70	62	22	20	50
Dry (16%)	88	97	100	100	96	98	75	55	53	18	18	46
Critical (27%)	98	96	100	100	94	83	37	30	37	17	18	49

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	37	66
20%	100	100	100	100	100	100	100	100	100	48	31	58
30%	100	100	100	100	100	100	100	100	100	36	25	52
40%	100	100	100	100	100	100	100	100	100	27	23	48
50%	99	100	100	100	100	100	81	100	100	21	20	46
60%	97	100	100	100	100	100	63	81	46	18	18	41
70%	84	100	100	100	100	100	48	38	30	16	16	36
80%	79	100	100	100	100	100	36	18	24	11	10	27
90%	70	88	100	100	100	100	20	0	13	0	0	20
Long Term												
Full Simulation Period[b]	90	98	99	100	99	96	70	69	65	32	21	44
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	98	89	90	77	62	26	45
Above Normal (24%)	93	98	100	100	100	100	93	100	88	30	19	50
Below Normal (10%)	90	100	91	100	100	100	57	69	61	20	16	49
Dry (16%)	81	96	100	100	100	97	62	44	54	14	18	37
Critical (27%)	90	92	100	100	99	79	27	27	37	13	23	44

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**122%**	**31%**	**6%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**50%**	**20%**	**6%**
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**35%**	2%	3%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**17%**	2%	-1%
50%	-1%	0%	0%	0%	0%	0%	**-19%**	0%	**28%**	1%	0%	0%
60%	4%	0%	0%	0%	0%	0%	**-13%**	**-19%**	**-12%**	**-5%**	-4%	**-6%**
70%	-5%	0%	0%	0%	0%	0%	**-17%**	**-17%**	**-21%**	**-7%**	**8%**	**-9%**
80%	-3%	0%	0%	0%	0%	0%	**-14%**	**-51%**	**-9%**	**-27%**	-5%	**-19%**
90%	**-7%**	-4%	0%	0%	0%	0%	**-35%**	**-98%**	**-32%**	**-96%**	**-98%**	1%
Long Term												
Full Simulation Period[b]	-2%	-1%	-1%	0%	2%	-1%	**-8%**	**-8%**	-3%	**29%**	**10%**	-4%
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	0%	0%	1%	**-8%**	**-18%**	**72%**	**32%**	**12%**
Above Normal (24%)	1%	1%	0%	0%	0%	0%	1%	0%	**28%**	**16%**	**-7%**	-4%
Below Normal (10%)	4%	1%	**-9%**	0%	3%	0%	**-17%**	-1%	-1%	**-8%**	**-18%**	-2%
Dry (16%)	**-7%**	-1%	0%	0%	4%	0%	**-18%**	**-20%**	1%	**-22%**	-4%	**-20%**
Critical (27%)	**-8%**	-4%	0%	0%	**5%**	-5%	**-27%**	**-9%**	2%	**-20%**	**31%**	**-11%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.22.4 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	45	28	62
20%	100	100	100	100	100	100	100	100	100	32	26	55
30%	100	100	100	100	100	100	100	100	100	27	25	50
40%	100	100	100	100	100	100	100	100	100	23	23	48
50%	100	100	100	100	100	100	100	100	78	21	20	46
60%	93	100	100	100	100	100	72	100	53	19	18	43
70%	88	100	100	100	100	100	58	45	38	17	15	40
80%	81	100	100	100	100	100	42	37	26	15	10	33
90%	76	92	100	100	100	100	31	21	19	11	7	20
Long Term												
Full Simulation Period[b]	92	98	100	100	96	96	75	74	67	25	19	46
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	97	88	98	94	36	20	40
Above Normal (24%)	92	97	100	100	100	100	92	100	68	25	20	53
Below Normal (10%)	86	99	100	100	97	100	69	70	62	22	20	50
Dry (16%)	88	97	100	100	96	98	75	55	53	18	18	46
Critical (27%)	98	96	100	100	94	83	37	30	37	17	18	49

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	63	31	88
20%	87	100	100	100	100	100	100	100	100	36	21	53
30%	74	100	100	100	100	100	100	100	100	26	19	48
40%	63	100	100	100	100	100	100	100	100	20	17	47
50%	58	100	100	100	100	100	60	100	100	18	17	42
60%	48	100	100	100	100	100	37	51	66	14	15	37
70%	43	100	100	100	100	100	21	25	37	11	10	34
80%	39	100	100	100	100	100	9	2	22	5	6	30
90%	30	100	100	100	100	80	0	0	7	0	1	12
Long Term												
Full Simulation Period[b]	59	99	100	100	98	94	57	62	67	25	20	44
Water Year Types[c]												
Wet (23%)	61	100	100	100	96	95	84	90	94	36	17	40
Above Normal (24%)	65	98	100	100	100	100	76	93	58	18	15	46
Below Normal (10%)	51	100	100	100	97	94	47	56	57	16	12	39
Dry (16%)	52	97	100	100	100	97	43	36	49	9	12	39
Critical (27%)	68	98	100	100	98	81	13	19	58	43	50	63

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**39%**	**10%**	**41%**
20%	**-13%**	0%	0%	0%	0%	0%	0%	0%	0%	**11%**	**-20%**	-4%
30%	**-26%**	0%	0%	0%	0%	0%	0%	0%	0%	-3%	**-23%**	-4%
40%	**-37%**	0%	0%	0%	0%	0%	0%	0%	0%	**-13%**	**-24%**	-3%
50%	**-42%**	0%	0%	0%	0%	0%	**-40%**	0%	**28%**	**-15%**	**-18%**	**-8%**
60%	**-48%**	0%	0%	0%	0%	0%	**-50%**	**-49%**	**25%**	**-25%**	**-19%**	**-14%**
70%	**-51%**	0%	0%	0%	0%	0%	**-64%**	**-44%**	-3%	**-35%**	**-30%**	**-16%**
80%	**-52%**	0%	0%	0%	0%	0%	**-78%**	**-94%**	**-18%**	**-66%**	**-47%**	**-10%**
90%	**-61%**	**9%**	0%	0%	0%	**-20%**	**-100%**	**-100%**	**-62%**	**-98%**	**-82%**	**-41%**
Long Term												
Full Simulation Period[b]	**-36%**	1%	0%	0%	2%	-2%	**-24%**	**-16%**	0%	0%	2%	-5%
Water Year Types[c]												
Wet (23%)	**-35%**	0%	0%	0%	0%	-3%	-4%	**-8%**	1%	1%	**-13%**	-1%
Above Normal (24%)	**-29%**	1%	0%	0%	0%	0%	**-17%**	**-7%**	**-15%**	**-29%**	**-25%**	**-12%**
Below Normal (10%)	**-41%**	1%	0%	0%	0%	**-6%**	**-32%**	**-20%**	**-7%**	**-26%**	**-37%**	**-23%**
Dry (16%)	**-41%**	0%	0%	0%	4%	-1%	**-43%**	**-36%**	**-9%**	**-48%**	**-37%**	**-14%**
Critical (27%)	**-31%**	2%	0%	0%	4%	-2%	**-65%**	**-37%**	**60%**	**157%**	**179%**	**28%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.2.23 New Melones Spotted Bass Nest Survival Percentage

Table 5C.3.2.23.1 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	91	100
30%	100	100	100	100	100	100	100	100	100	93	85	100
40%	100	100	100	100	100	100	100	100	100	85	81	100
50%	100	100	100	100	100	100	100	100	100	81	78	100
60%	100	100	100	100	100	100	100	100	100	75	76	100
70%	100	100	100	100	100	100	100	100	100	68	73	100
80%	100	100	100	100	100	100	87	91	88	64	66	100
90%	90	100	100	100	100	100	68	69	71	51	55	97
Long Term												
Full Simulation Period[b]	94	100	100	100	99	99	90	91	91	77	76	97
Water Year Types[c]												
Wet (23%)	88	100	100	100	98	96	88	100	96	84	79	96
Above Normal (24%)	99	100	100	100	100	100	98	100	99	77	78	100
Below Normal (10%)	91	100	100	100	100	100	90	90	94	80	77	99
Dry (16%)	97	100	100	100	100	100	97	92	89	69	72	99
Critical (27%)	99	100	100	100	100	100	73	62	72	75	75	94

Revised Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	96	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	90	100
40%	100	100	100	100	100	100	100	100	100	87	86	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	80	79	100
70%	100	100	100	100	100	100	100	100	100	77	73	100
80%	100	100	100	100	100	100	100	100	93	73	66	100
90%	100	100	100	100	100	100	100	84	79	66	60	82
Long Term												
Full Simulation Period[b]	100	100	100	100	99	100	98	95	95	83	79	97
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	100	93	81	93
Above Normal (24%)	100	100	100	100	100	100	99	100	100	83	82	100
Below Normal (10%)	100	100	100	100	100	100	99	94	98	82	81	99
Dry (16%)	100	100	100	100	99	100	100	96	93	78	79	99
Critical (27%)	100	100	100	100	100	100	87	75	82	69	71	99

Revised Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-4%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	6%	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	5%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	4%	0%
70%	0%	0%	0%	0%	0%	0%	0%	0%	0%	13%	1%	0%
80%	0%	0%	0%	0%	0%	0%	15%	10%	5%	14%	-1%	0%
90%	11%	0%	0%	0%	0%	0%	48%	21%	12%	29%	9%	-16%
Long Term												
Full Simulation Period[b]	6%	0%	0%	0%	0%	1%	9%	4%	4%	7%	4%	0%
Water Year Types[c]												
Wet (23%)	13%	0%	0%	0%	-1%	4%	13%	0%	4%	11%	3%	-2%
Above Normal (24%)	1%	0%	0%	0%	0%	0%	1%	0%	0%	8%	6%	0%
Below Normal (10%)	10%	0%	0%	0%	0%	0%	10%	4%	4%	3%	6%	0%
Dry (16%)	3%	0%	0%	0%	-1%	0%	3%	5%	4%	13%	9%	0%
Critical (27%)	1%	0%	0%	0%	0%	0%	19%	21%	13%	-7%	-5%	5%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.23.2 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	96	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	90	100
40%	100	100	100	100	100	100	100	100	100	87	86	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	80	79	100
70%	100	100	100	100	100	100	100	100	100	77	73	100
80%	100	100	100	100	100	100	100	100	93	73	66	100
90%	100	100	100	100	100	100	100	84	79	66	60	82
Long Term												
Full Simulation Period[b]	100	100	100	100	99	100	98	95	95	83	79	97
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	100	93	81	93
Above Normal (24%)	100	100	100	100	100	100	99	100	100	83	82	100
Below Normal (10%)	100	100	100	100	100	100	99	94	98	82	81	99
Dry (16%)	100	100	100	100	99	100	100	96	93	78	79	99
Critical (27%)	100	100	100	100	100	100	87	75	82	69	71	99

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	91	100
30%	100	100	100	100	100	100	100	100	100	93	85	100
40%	100	100	100	100	100	100	100	100	100	85	81	100
50%	100	100	100	100	100	100	100	100	100	81	78	100
60%	100	100	100	100	100	100	100	100	100	75	76	100
70%	100	100	100	100	100	100	100	100	100	68	73	100
80%	100	100	100	100	100	100	87	91	88	64	66	100
90%	90	100	100	100	100	100	68	69	71	51	55	97
Long Term												
Full Simulation Period[b]	94	100	100	100	99	99	90	91	91	77	76	97
Water Year Types[c]												
Wet (23%)	88	100	100	100	98	96	88	100	96	84	79	96
Above Normal (24%)	99	100	100	100	100	100	98	100	99	77	78	100
Below Normal (10%)	91	100	100	100	100	100	90	90	94	80	77	99
Dry (16%)	97	100	100	100	100	100	97	92	89	69	72	99
Critical (27%)	99	100	100	100	100	100	73	62	72	75	75	94

No Action Alternative minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-6%**	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	**-6%**	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-5%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-6%**	-4%	0%
70%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-12%**	-1%	0%
80%	0%	0%	0%	0%	0%	0%	**-13%**	**-9%**	-5%	**-12%**	1%	0%
90%	**-10%**	0%	0%	0%	0%	0%	**-32%**	**-17%**	**-11%**	**-23%**	**-8%**	**18%**
Long Term												
Full Simulation Period[b]	**-6%**	0%	0%	0%	0%	-1%	**-8%**	-4%	-4%	**-7%**	-4%	0%
Water Year Types[c]												
Wet (23%)	**-12%**	0%	0%	0%	1%	-4%	**-12%**	0%	-4%	**-10%**	-3%	2%
Above Normal (24%)	-1%	0%	0%	0%	0%	0%	-1%	0%	0%	**-7%**	**-5%**	0%
Below Normal (10%)	**-9%**	0%	0%	0%	0%	0%	**-9%**	-4%	-4%	-3%	**-5%**	0%
Dry (16%)	-3%	0%	0%	0%	1%	0%	-3%	-5%	-4%	**-12%**	**-8%**	0%
Critical (27%)	-1%	0%	0%	0%	0%	0%	**-16%**	**-18%**	**-12%**	**8%**	**5%**	**-5%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.23.3 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	96	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	90	100
40%	100	100	100	100	100	100	100	100	100	87	86	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	80	79	100
70%	100	100	100	100	100	100	100	100	100	77	73	100
80%	100	100	100	100	100	100	100	100	93	73	66	100
90%	100	100	100	100	100	100	100	84	79	66	60	82
Long Term												
Full Simulation Period[b]	100	100	100	100	99	100	98	95	95	83	79	97
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	100	93	81	93
Above Normal (24%)	100	100	100	100	100	100	99	100	100	83	82	100
Below Normal (10%)	100	100	100	100	100	100	99	94	98	82	81	99
Dry (16%)	100	100	100	100	99	100	100	96	93	78	79	99
Critical (27%)	100	100	100	100	100	100	87	75	82	69	71	99

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	100	100
30%	100	100	100	100	100	100	100	100	100	100	91	100
40%	100	100	100	100	100	100	100	100	100	94	87	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	79	78	100
70%	100	100	100	100	100	100	100	100	98	75	75	100
80%	100	100	100	100	100	100	100	79	88	66	65	94
90%	100	100	100	100	100	100	82	38	69	48	38	82
Long Term												
Full Simulation Period[b]	100	100	99	100	99	99	94	86	88	78	75	91
Water Year Types[c]												
Wet (23%)	100	100	100	100	98	100	100	92	77	98	87	98
Above Normal (24%)	100	100	100	100	100	100	100	100	99	80	68	92
Below Normal (10%)	100	100	91	100	100	100	90	95	97	69	66	98
Dry (16%)	100	100	100	100	100	100	93	73	93	67	74	79
Critical (27%)	100	100	100	100	100	92	79	71	83	63	70	89

Alternative 3 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**7%**	1%	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	1%	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-2%	0%
70%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-3%	3%	0%
80%	0%	0%	0%	0%	0%	0%	0%	**-21%**	-5%	**-9%**	-1%	**-6%**
90%	0%	0%	0%	0%	0%	0%	**-18%**	**-55%**	**-13%**	**-27%**	**-37%**	1%
Long Term												
Full Simulation Period[b]	0%	0%	-1%	0%	0%	-1%	-4%	**-9%**	**-8%**	**-5%**	-5%	**-6%**
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	1%	0%	0%	**-8%**	**-23%**	5%	**8%**	**5%**
Above Normal (24%)	0%	0%	0%	0%	0%	0%	1%	0%	0%	-3%	**-18%**	**-8%**
Below Normal (10%)	0%	0%	**-9%**	0%	0%	0%	**-9%**	0%	-1%	**-16%**	**-18%**	0%
Dry (16%)	0%	0%	0%	0%	1%	0%	**-7%**	**-24%**	1%	**-14%**	**-6%**	**-20%**
Critical (27%)	0%	0%	0%	0%	0%	**-8%**	**-9%**	**-6%**	1%	**-10%**	-2%	**-10%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.23.4 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Revised Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	96	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	90	100
40%	100	100	100	100	100	100	100	100	100	87	86	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	80	79	100
70%	100	100	100	100	100	100	100	100	100	77	73	100
80%	100	100	100	100	100	100	100	100	93	73	66	100
90%	100	100	100	100	100	100	100	84	79	66	60	82
Long Term												
Full Simulation Period[b]	100	100	100	100	99	100	98	95	95	83	79	97
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	100	93	81	93
Above Normal (24%)	100	100	100	100	100	100	99	100	100	83	82	100
Below Normal (10%)	100	100	100	100	100	100	99	94	98	82	81	99
Dry (16%)	100	100	100	100	99	100	100	96	93	78	79	99
Critical (27%)	100	100	100	100	100	100	87	75	82	69	71	99

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	99	100
20%	100	100	100	100	100	100	100	100	100	100	83	100
30%	100	100	100	100	100	100	100	100	100	92	80	100
40%	100	100	100	100	100	100	100	100	100	82	77	100
50%	100	100	100	100	100	100	100	100	100	78	76	100
60%	100	100	100	100	100	100	100	100	100	72	73	100
70%	100	100	100	100	100	100	84	91	100	67	65	100
80%	100	100	100	100	100	100	63	52	84	56	57	99
90%	98	100	100	100	100	100	27	9	60	33	50	68
Long Term												
Full Simulation Period[b]	96	100	100	100	99	100	81	80	88	72	71	91
Water Year Types[c]												
Wet (23%)	99	100	100	100	97	99	99	100	100	90	76	94
Above Normal (24%)	99	100	100	100	100	100	90	100	76	66	74	92
Below Normal (10%)	87	100	100	100	100	100	78	74	92	65	65	79
Dry (16%)	93	100	100	100	100	100	78	71	85	56	59	93
Critical (27%)	97	100	100	100	100	100	38	38	80	73	80	92

Alternative 5 minus Revised Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-10%**	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	**-11%**	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-6%**	**-11%**	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-6%**	**-8%**	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-10%**	**-8%**	0%
70%	0%	0%	0%	0%	0%	0%	**-16%**	**-9%**	0%	**-13%**	**-11%**	0%
80%	0%	0%	0%	0%	0%	0%	**-37%**	**-48%**	**-9%**	**-23%**	**-13%**	-1%
90%	-2%	0%	0%	0%	0%	0%	**-73%**	**-89%**	**-25%**	**-50%**	**-16%**	**-17%**
Long Term												
Full Simulation Period[b]	-4%	0%	0%	0%	0%	0%	**-17%**	**-15%**	**-7%**	**-13%**	**-11%**	**-6%**
Water Year Types[c]												
Wet (23%)	-1%	0%	0%	0%	-1%	-1%	-1%	0%	0%	-3%	**-6%**	1%
Above Normal (24%)	-1%	0%	0%	0%	0%	0%	**-9%**	0%	**-24%**	**-21%**	**-10%**	**-8%**
Below Normal (10%)	**-13%**	0%	0%	0%	0%	0%	**-22%**	**-22%**	**-6%**	**-21%**	**-21%**	**-20%**
Dry (16%)	**-7%**	0%	0%	0%	1%	0%	**-22%**	**-26%**	**-9%**	**-28%**	**-25%**	**-6%**
Critical (27%)	-3%	0%	0%	0%	0%	0%	**-56%**	**-49%**	-2%	**5%**	**13%**	**-7%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.2.24 Temperature Threshold Exceedances

Species	Lifestage	River	Reach	Water Year Type	Month	Temperature Objective (Degree F)	Temperature Objective Reference[1]	No Action Alternative	Revised Second Basis of Comparison (Revised Alternative 1)	Alternative 3	Alternative 5	Revised Alternative 1 minus No Action Alternative	No Action Alternative minus Revised Second Basis of Comparison	Alternative 3 minus Revised Second Basis of Comparison	Alternative 5 minus Revised Second Basis of Comparison
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	October	56	NMFS BiOp 2009	57%	86%	87%	58%	29%	-29%	1%	-28%
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	November	56	NMFS BiOp 2009	33%	27%	24%	36%	-6%	6%	-3%	9%
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	December	56	NMFS BiOp 2009	0%	0%	0%	3%	0%	0%	0%	3%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	January	52	NMFS BiOp 2009	0%	3%	2%	2%	3%	-3%	-1%	-1%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	February	52	NMFS BiOp 2009	0%	3%	2%	0%	3%	-3%	-1%	-3%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	March	52	NMFS BiOp 2009	8%	12%	12%	8%	4%	-4%	0%	-4%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	April	52	NMFS BiOp 2009	33%	34%	30%	37%	2%	-2%	-4%	3%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	May	52	NMFS BiOp 2009	63%	68%	63%	68%	5%	-5%	-5%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	January	57	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	February	57	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	March	57	NMFS BiOp 2009	0%	10%	0%	0%	10%	-10%	-10%	-10%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	April	57	NMFS BiOp 2009	2%	7%	3%	0%	5%	-5%	-4%	-7%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	May	57	NMFS BiOp 2009	18%	22%	17%	8%	4%	-4%	-5%	-15%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	January	55	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	February	55	NMFS BiOp 2009	0%	2%	1%	0%	2%	-2%	-1%	-2%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	March	55	NMFS BiOp 2009	21%	35%	25%	21%	14%	-14%	-11%	-15%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	April	55	NMFS BiOp 2009	16%	30%	17%	7%	14%	-14%	-12%	-23%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	May	55	NMFS BiOp 2009	49%	57%	53%	40%	9%	-9%	-4%	-17%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	June	65	NMFS BiOp 2009	6%	2%	4%	6%	-3%	3%	2%	4%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	July	65	NMFS BiOp 2009	16%	15%	19%	21%	-2%	2%	5%	7%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	August	65	NMFS BiOp 2009	15%	7%	9%	21%	-8%	8%	2%	13%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	September	65	NMFS BiOp 2009	11%	7%	7%	18%	-4%	4%	0%	11%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	October	65	NMFS BiOp 2009	7%	7%	4%	11%	0%	0%	-3%	4%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	November	65	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%

[1]See Appendix 9N, Section C for the full reference

Table 5C.3.2.25 CVP Annual Power Generation Summary

				No Action Alternative	Revised Second Basis of Comparison (Revised Alternative 1)	Alternative 3	Alternative 5	Revised Alternative 1 vs. No Action Altenative (Percent Difference)	No Action Alternative vs. Revised Second Basis of Comparison (Percent Difference)	Alternative 3 vs. Revised Second Basis of Comparison (Percent Difference)	Alternative 5 vs. Revised Second Basis of Comparison (Percent Difference)
CVP Generation Facilities											
Capacity	At load center	(MW)	Long Term	1,583	1,651	1,642	1,568	4%	-4%	-1%	**-5%**
			Dry and Critical	1,203	1,327	1,291	1,173	**10%**	**-9%**	-3%	**-12%**
Energy Generation	Total of all Facilities at load center	(GWh)	Long Term	4,558	4,617	4,582	4,552	1%	-1%	-1%	-1%
			Dry and Critical	2,696	2,823	2,798	2,684	5%	-4%	-1%	-5%
CVP Pumping Facilities											
Energy Use	Total of all Facilities at load center	(GWh)	Long Term	1,113	1,285	1,238	1,110	**15%**	**-13%**	-4%	**-14%**
			Dry and Critical	699	769	715	699	**10%**	**-9%**	**-7%**	**-9%**
All CVP Facilities											
Net Generation	Total of all Facilities	(GWh)	Long Term	3,445	3,331	3,344	3,442	-3%	3%	0%	3%
			Dry and Critical	1,997	2,054	2,084	1,986	3%	-3%	1%	-3%

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in text.

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5C.3.3.1 New Melones Storage

Table 5C.3.3.1.1 New Melones Reservoir, End of Month Storage

No Action Alternative

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,823	1,880	1,931	1,980	1,945	2,052	2,075	1,978	1,869	1,805
20%	1,612	1,631	1,647	1,687	1,768	1,799	1,834	1,901	1,876	1,798	1,691	1,633
30%	1,533	1,534	1,556	1,598	1,686	1,729	1,686	1,745	1,786	1,707	1,605	1,556
40%	1,271	1,274	1,432	1,514	1,594	1,618	1,592	1,533	1,539	1,433	1,333	1,273
50%	1,121	1,127	1,154	1,307	1,436	1,535	1,461	1,444	1,392	1,283	1,190	1,156
60%	1,024	1,043	1,080	1,146	1,199	1,273	1,278	1,335	1,277	1,199	1,102	1,054
70%	882	911	986	1,015	1,038	1,057	1,080	1,090	1,087	994	910	868
80%	646	658	684	684	735	808	835	878	872	808	733	693
90%	430	435	440	488	541	569	574	586	630	566	507	473
Long Term												
Full Simulation Period[b]	1,132	1,142	1,180	1,237	1,305	1,348	1,337	1,373	1,381	1,300	1,208	1,159
Water Year Types[c]												
Wet (32%)	1,379	1,390	1,454	1,562	1,666	1,724	1,758	1,878	1,968	1,890	1,773	1,703
Above Normal (16%)	1,029	1,060	1,125	1,214	1,317	1,406	1,413	1,484	1,467	1,372	1,277	1,232
Below Normal (13%)	1,294	1,305	1,326	1,351	1,413	1,438	1,390	1,383	1,359	1,268	1,175	1,133
Dry (24%)	1,094	1,094	1,106	1,121	1,156	1,188	1,154	1,132	1,087	997	914	871
Critical (15%)	624	623	638	645	661	656	602	554	526	476	431	408

Alternative 1

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,801	1,782	1,827	1,875	1,952	2,030	2,017	2,134	2,071	1,977	1,869	1,805
20%	1,657	1,655	1,665	1,690	1,847	1,928	1,884	1,963	1,884	1,830	1,719	1,663
30%	1,575	1,582	1,614	1,627	1,697	1,743	1,751	1,836	1,836	1,743	1,635	1,577
40%	1,366	1,372	1,472	1,556	1,621	1,675	1,649	1,601	1,619	1,510	1,415	1,362
50%	1,200	1,211	1,248	1,348	1,472	1,541	1,484	1,511	1,467	1,357	1,258	1,200
60%	1,089	1,093	1,124	1,209	1,259	1,341	1,373	1,379	1,317	1,224	1,134	1,089
70%	956	989	1,040	1,084	1,099	1,099	1,146	1,179	1,147	1,064	982	940
80%	711	712	730	753	825	932	914	945	903	837	758	712
90%	508	517	515	555	666	664	608	619	697	619	547	507
Long Term												
Full Simulation Period[b]	1,192	1,194	1,226	1,279	1,345	1,397	1,402	1,433	1,420	1,336	1,245	1,194
Water Year Types[c]												
Wet (32%)	1,443	1,446	1,502	1,606	1,709	1,794	1,833	1,962	1,994	1,917	1,803	1,731
Above Normal (16%)	1,092	1,116	1,175	1,261	1,360	1,455	1,481	1,543	1,516	1,419	1,321	1,274
Below Normal (13%)	1,364	1,366	1,378	1,397	1,453	1,479	1,461	1,447	1,415	1,322	1,228	1,183
Dry (24%)	1,149	1,143	1,149	1,161	1,191	1,221	1,210	1,176	1,131	1,039	956	912
Critical (15%)	667	663	674	680	696	690	646	585	557	498	449	426

Alternative 1 minus No Action Alternative

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	1%	0%	0%	1%	3%	4%	4%	0%	0%	0%	0%
20%	3%	1%	1%	0%	4%	**7%**	3%	3%	0%	2%	2%	2%
30%	3%	3%	4%	2%	1%	1%	4%	**5%**	3%	2%	2%	1%
40%	**7%**	**8%**	3%	3%	2%	4%	4%	4%	**5%**	**5%**	**6%**	**7%**
50%	**7%**	**7%**	**8%**	3%	3%	0%	2%	5%	**5%**	**6%**	**6%**	4%
60%	**6%**	5%	4%	**5%**	**5%**	**5%**	**7%**	3%	3%	2%	3%	3%
70%	**8%**	**9%**	**5%**	**7%**	**6%**	4%	**6%**	**8%**	**5%**	**7%**	**8%**	**8%**
80%	**10%**	**8%**	**7%**	**10%**	**12%**	**15%**	**9%**	**8%**	4%	3%	3%	3%
90%	**18%**	**19%**	**17%**	**14%**	**23%**	**17%**	**6%**	**6%**	**11%**	**9%**	**8%**	**7%**
Long Term												
Full Simulation Period[b]	**5%**	5%	4%	3%	3%	4%	5%	4%	3%	3%	3%	3%
Water Year Types[c]												
Wet (32%)	5%	4%	3%	3%	3%	4%	4%	4%	1%	1%	2%	2%
Above Normal (16%)	**6%**	**5%**	4%	4%	3%	3%	5%	4%	3%	3%	3%	3%
Below Normal (13%)	**5%**	5%	4%	3%	3%	3%	**5%**	5%	4%	4%	4%	4%
Dry (24%)	**5%**	5%	4%	4%	3%	3%	5%	4%	4%	4%	5%	5%
Critical (15%)	**7%**	**6%**	**6%**	**6%**	**5%**	**5%**	**7%**	**6%**	**6%**	5%	4%	4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.1.2 New Melones Reservoir, End of Month Storage

Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,801	1,782	1,827	1,875	1,952	2,030	2,017	2,134	2,071	1,977	1,869	1,805
20%	1,657	1,655	1,665	1,690	1,847	1,928	1,884	1,963	1,884	1,830	1,719	1,663
30%	1,575	1,582	1,614	1,627	1,697	1,743	1,751	1,836	1,836	1,743	1,635	1,577
40%	1,366	1,372	1,472	1,556	1,621	1,675	1,649	1,601	1,619	1,510	1,415	1,362
50%	1,200	1,211	1,248	1,348	1,472	1,541	1,484	1,511	1,467	1,357	1,258	1,200
60%	1,089	1,093	1,124	1,209	1,259	1,341	1,373	1,379	1,317	1,224	1,134	1,089
70%	956	989	1,040	1,084	1,099	1,099	1,146	1,179	1,147	1,064	982	940
80%	711	712	730	753	825	932	914	945	903	837	758	712
90%	508	517	515	555	666	664	608	619	697	619	547	507
Long Term												
Full Simulation Period[b]	1,192	1,194	1,226	1,279	1,345	1,397	1,402	1,433	1,420	1,336	1,245	1,194
Water Year Types[c]												
Wet (32%)	1,443	1,446	1,502	1,606	1,709	1,794	1,833	1,962	1,994	1,917	1,803	1,731
Above Normal (16%)	1,092	1,116	1,175	1,261	1,360	1,455	1,481	1,543	1,516	1,419	1,321	1,274
Below Normal (13%)	1,364	1,366	1,378	1,397	1,453	1,479	1,461	1,447	1,415	1,322	1,228	1,183
Dry (24%)	1,149	1,143	1,149	1,161	1,191	1,221	1,210	1,176	1,131	1,039	956	912
Critical (15%)	667	663	674	680	696	690	646	585	557	498	449	426

No Action Alternative

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,823	1,880	1,931	1,980	1,945	2,052	2,075	1,978	1,869	1,805
20%	1,612	1,631	1,647	1,687	1,768	1,799	1,834	1,901	1,876	1,798	1,691	1,633
30%	1,533	1,534	1,556	1,598	1,686	1,729	1,686	1,745	1,786	1,707	1,605	1,556
40%	1,271	1,274	1,432	1,514	1,594	1,618	1,592	1,533	1,539	1,433	1,333	1,273
50%	1,121	1,127	1,154	1,307	1,436	1,535	1,461	1,444	1,392	1,283	1,190	1,156
60%	1,024	1,043	1,080	1,146	1,199	1,273	1,278	1,335	1,277	1,199	1,102	1,054
70%	882	911	986	1,015	1,038	1,057	1,080	1,090	1,087	994	910	868
80%	646	658	684	684	735	808	835	878	872	808	733	693
90%	430	435	440	488	541	569	574	586	630	566	507	473
Long Term												
Full Simulation Period[b]	1,132	1,142	1,180	1,237	1,305	1,348	1,337	1,373	1,381	1,300	1,208	1,159
Water Year Types[c]												
Wet (32%)	1,379	1,390	1,454	1,562	1,666	1,724	1,758	1,878	1,968	1,890	1,773	1,703
Above Normal (16%)	1,029	1,060	1,125	1,214	1,317	1,406	1,413	1,484	1,467	1,372	1,277	1,232
Below Normal (13%)	1,294	1,305	1,326	1,351	1,413	1,438	1,390	1,383	1,359	1,268	1,175	1,133
Dry (24%)	1,094	1,094	1,106	1,121	1,156	1,188	1,154	1,132	1,087	997	914	871
Critical (15%)	624	623	638	645	661	656	602	554	526	476	431	408

No Action Alternative minus Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2%	-1%	0%	0%	-1%	-2%	-4%	-4%	0%	0%	0%	0%
20%	-3%	-1%	-1%	0%	-4%	**-7%**	-3%	-3%	0%	-2%	-2%	-2%
30%	-3%	-3%	-4%	-2%	-1%	-1%	-4%	-5%	-3%	-2%	-2%	-1%
40%	**-7%**	**-7%**	-3%	-3%	-2%	-3%	-3%	-4%	-5%	**-5%**	**-6%**	**-7%**
50%	**-7%**	**-7%**	**-8%**	-3%	-2%	0%	-2%	-4%	**-5%**	**-5%**	**-5%**	-4%
60%	**-6%**	-5%	-4%	**-5%**	-5%	**-5%**	**-7%**	-3%	-3%	-2%	-3%	-3%
70%	**-8%**	**-8%**	**-5%**	**-6%**	**-6%**	-4%	**-6%**	**-8%**	**-5%**	**-7%**	**-7%**	**-8%**
80%	**-9%**	**-8%**	**-6%**	**-9%**	**-11%**	**-13%**	**-9%**	**-7%**	-3%	-3%	-3%	-3%
90%	**-15%**	**-16%**	**-15%**	**-12%**	**-19%**	**-14%**	**-6%**	**-5%**	**-10%**	**-9%**	**-7%**	**-7%**
Long Term												
Full Simulation Period[b]	-5%	-4%	-4%	-3%	-3%	-3%	-5%	-4%	-3%	-3%	-3%	-3%
Water Year Types[c]												
Wet (32%)	-4%	-4%	-3%	-3%	-3%	-4%	-4%	-4%	-1%	-1%	-2%	-2%
Above Normal (16%)	**-6%**	**-5%**	-4%	-4%	-3%	-3%	-5%	-4%	-3%	-3%	-3%	-3%
Below Normal (13%)	**-5%**	-4%	-4%	-3%	-3%	-3%	-5%	-4%	-4%	-4%	-4%	-4%
Dry (24%)	-5%	-4%	-4%	-3%	-3%	-3%	-5%	-4%	-4%	-4%	-4%	-5%
Critical (15%)	**-7%**	**-6%**	**-5%**	**-5%**	-5%	-5%	**-7%**	**-5%**	**-6%**	-5%	-4%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.1.3 New Melones Reservoir, End of Month Storage

Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,801	1,782	1,827	1,875	1,952	2,030	2,017	2,134	2,071	1,977	1,869	1,805
20%	1,657	1,655	1,665	1,690	1,847	1,928	1,884	1,963	1,884	1,830	1,719	1,663
30%	1,575	1,582	1,614	1,627	1,697	1,743	1,751	1,836	1,836	1,743	1,635	1,577
40%	1,366	1,372	1,472	1,556	1,621	1,675	1,649	1,601	1,619	1,510	1,415	1,362
50%	1,200	1,211	1,248	1,348	1,472	1,541	1,484	1,511	1,467	1,357	1,258	1,200
60%	1,089	1,093	1,124	1,209	1,259	1,341	1,373	1,379	1,317	1,224	1,134	1,089
70%	956	989	1,040	1,084	1,099	1,099	1,146	1,179	1,147	1,064	982	940
80%	711	712	730	753	825	932	914	945	903	837	758	712
90%	508	517	515	555	666	664	608	619	697	619	547	507
Long Term												
Full Simulation Period[b]	1,192	1,194	1,226	1,279	1,345	1,397	1,402	1,433	1,420	1,336	1,245	1,194
Water Year Types[c]												
Wet (32%)	1,443	1,446	1,502	1,606	1,709	1,794	1,833	1,962	1,994	1,917	1,803	1,731
Above Normal (16%)	1,092	1,116	1,175	1,261	1,360	1,455	1,481	1,543	1,516	1,419	1,321	1,274
Below Normal (13%)	1,364	1,366	1,378	1,397	1,453	1,479	1,461	1,447	1,415	1,322	1,228	1,183
Dry (24%)	1,149	1,143	1,149	1,161	1,191	1,221	1,210	1,176	1,131	1,039	956	912
Critical (15%)	667	663	674	680	696	690	646	585	557	498	449	426

Alternative 3

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,967	1,954	1,970	1,970	1,970	2,030	2,062	2,198	2,284	2,209	2,103	2,000
20%	1,901	1,905	1,913	1,911	1,970	2,026	1,988	2,021	2,154	2,055	1,955	1,902
30%	1,729	1,727	1,790	1,857	1,925	1,975	1,910	1,972	1,983	1,877	1,785	1,736
40%	1,582	1,596	1,668	1,775	1,851	1,884	1,838	1,826	1,796	1,697	1,601	1,546
50%	1,427	1,416	1,439	1,556	1,660	1,719	1,674	1,721	1,675	1,561	1,460	1,409
60%	1,308	1,316	1,318	1,366	1,426	1,494	1,488	1,529	1,525	1,432	1,335	1,289
70%	1,049	1,073	1,187	1,210	1,289	1,269	1,265	1,343	1,276	1,180	1,092	1,043
80%	875	862	919	957	1,020	1,099	1,056	1,121	1,071	1,001	938	907
90%	635	646	646	681	779	803	734	731	835	756	682	639
Long Term												
Full Simulation Period[b]	1,347	1,351	1,382	1,436	1,491	1,541	1,534	1,580	1,595	1,506	1,408	1,353
Water Year Types[c]												
Wet (32%)	1,562	1,567	1,618	1,720	1,792	1,871	1,906	2,049	2,146	2,057	1,934	1,855
Above Normal (16%)	1,269	1,295	1,356	1,442	1,530	1,620	1,634	1,713	1,720	1,627	1,529	1,481
Below Normal (13%)	1,530	1,536	1,550	1,570	1,620	1,650	1,614	1,617	1,599	1,501	1,403	1,357
Dry (24%)	1,327	1,320	1,326	1,342	1,378	1,409	1,380	1,360	1,319	1,224	1,137	1,091
Critical (15%)	828	824	836	846	866	860	803	751	719	653	593	563

Alternative 3 minus Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	9%	10%	8%	5%	1%	0%	2%	3%	10%	12%	13%	11%
20%	15%	15%	15%	13%	7%	5%	6%	3%	14%	12%	14%	14%
30%	10%	9%	11%	14%	13%	13%	9%	7%	8%	8%	9%	10%
40%	16%	16%	13%	14%	14%	12%	11%	14%	11%	12%	13%	14%
50%	19%	17%	15%	15%	13%	12%	13%	14%	14%	15%	16%	17%
60%	20%	20%	17%	13%	13%	11%	8%	11%	16%	17%	18%	18%
70%	10%	9%	14%	12%	17%	15%	10%	14%	11%	11%	11%	11%
80%	23%	21%	26%	27%	24%	18%	16%	19%	19%	20%	24%	27%
90%	25%	25%	25%	23%	17%	21%	21%	18%	20%	22%	25%	26%
Long Term												
Full Simulation Period[b]	13%	13%	13%	12%	11%	10%	9%	10%	12%	13%	13%	13%
Water Year Types[c]												
Wet (32%)	8%	8%	8%	7%	5%	4%	4%	4%	8%	7%	7%	7%
Above Normal (16%)	16%	16%	15%	14%	13%	11%	10%	11%	13%	15%	16%	16%
Below Normal (13%)	12%	12%	12%	12%	11%	12%	10%	12%	13%	14%	14%	15%
Dry (24%)	15%	15%	15%	16%	16%	15%	14%	16%	17%	18%	19%	20%
Critical (15%)	24%	24%	24%	24%	24%	25%	24%	28%	29%	31%	32%	32%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.1.4 New Melones Reservoir, End of Month Storage

Second Basis of Comparison

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,801	1,782	1,827	1,875	1,952	2,030	2,017	2,134	2,071	1,977	1,869	1,805
20%	1,657	1,655	1,665	1,690	1,847	1,928	1,884	1,963	1,884	1,830	1,719	1,663
30%	1,575	1,582	1,614	1,627	1,697	1,743	1,751	1,836	1,836	1,743	1,635	1,577
40%	1,366	1,372	1,472	1,556	1,621	1,675	1,649	1,601	1,619	1,510	1,415	1,362
50%	1,200	1,211	1,248	1,348	1,472	1,541	1,484	1,511	1,467	1,357	1,258	1,200
60%	1,089	1,093	1,124	1,209	1,259	1,341	1,373	1,379	1,317	1,224	1,134	1,089
70%	956	989	1,040	1,084	1,099	1,099	1,146	1,179	1,147	1,064	982	940
80%	711	712	730	753	825	932	914	945	903	837	758	712
90%	508	517	515	555	666	664	608	619	697	619	547	507
Long Term												
Full Simulation Period[b]	1,192	1,194	1,226	1,279	1,345	1,397	1,402	1,433	1,420	1,336	1,245	1,194
Water Year Types[c]												
Wet (32%)	1,443	1,446	1,502	1,606	1,709	1,794	1,833	1,962	1,994	1,917	1,803	1,731
Above Normal (16%)	1,092	1,116	1,175	1,261	1,360	1,455	1,481	1,543	1,516	1,419	1,321	1,274
Below Normal (13%)	1,364	1,366	1,378	1,397	1,453	1,479	1,461	1,447	1,415	1,322	1,228	1,183
Dry (24%)	1,149	1,143	1,149	1,161	1,191	1,221	1,210	1,176	1,131	1,039	956	912
Critical (15%)	667	663	674	680	696	690	646	585	557	498	449	426

Alternative 5

	End of Month Storage (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,765	1,759	1,831	1,881	1,949	1,969	1,908	2,012	2,117	2,013	1,900	1,826
20%	1,588	1,587	1,601	1,626	1,782	1,794	1,752	1,844	1,816	1,740	1,631	1,571
30%	1,468	1,459	1,490	1,544	1,630	1,672	1,679	1,693	1,721	1,633	1,531	1,489
40%	1,249	1,252	1,347	1,437	1,522	1,573	1,512	1,494	1,505	1,405	1,297	1,242
50%	1,040	1,058	1,142	1,227	1,437	1,455	1,393	1,357	1,289	1,190	1,100	1,074
60%	976	997	1,023	1,072	1,134	1,161	1,159	1,246	1,218	1,130	1,032	983
70%	766	802	855	907	938	973	1,006	978	991	900	821	783
80%	554	553	620	621	623	697	651	721	761	686	617	587
90%	285	298	299	377	429	449	386	452	492	423	349	308
Long Term												
Full Simulation Period[b]	1,063	1,073	1,112	1,169	1,239	1,284	1,265	1,287	1,299	1,221	1,134	1,086
Water Year Types[c]												
Wet (32%)	1,309	1,321	1,388	1,496	1,602	1,668	1,704	1,812	1,906	1,833	1,722	1,653
Above Normal (16%)	983	1,014	1,079	1,168	1,271	1,361	1,363	1,413	1,396	1,302	1,207	1,162
Below Normal (13%)	1,210	1,220	1,242	1,267	1,329	1,354	1,298	1,276	1,254	1,163	1,071	1,028
Dry (24%)	1,018	1,018	1,030	1,045	1,081	1,114	1,066	1,031	990	903	823	781
Critical (15%)	558	559	570	578	597	591	506	449	433	391	355	336

Alternative 5 minus Second Basis of Comparison

	End of Month Storage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2%	-1%	0%	0%	0%	-3%	**-5%**	**-6%**	2%	2%	2%	1%
20%	-4%	-4%	-4%	-4%	-4%	**-7%**	**-7%**	**-6%**	-4%	-5%	**-5%**	**-6%**
30%	**-7%**	**-8%**	**-8%**	**-5%**	-4%	-4%	-4%	**-8%**	**-6%**	**-6%**	**-6%**	**-6%**
40%	**-9%**	**-9%**	**-9%**	**-8%**	**-6%**	**-6%**	**-8%**	**-7%**	**-7%**	**-7%**	**-8%**	**-9%**
50%	**-13%**	**-13%**	**-8%**	**-9%**	-2%	**-6%**	**-6%**	**-10%**	**-12%**	**-12%**	**-13%**	**-11%**
60%	**-10%**	**-9%**	**-9%**	**-11%**	**-10%**	**-13%**	**-16%**	**-10%**	**-8%**	**-8%**	**-9%**	**-10%**
70%	**-20%**	**-19%**	**-18%**	**-16%**	**-15%**	**-11%**	**-12%**	**-17%**	**-14%**	**-15%**	**-16%**	**-17%**
80%	**-22%**	**-22%**	**-15%**	**-17%**	**-25%**	**-25%**	**-29%**	**-24%**	**-16%**	**-18%**	**-19%**	**-18%**
90%	**-44%**	**-42%**	**-42%**	**-32%**	**-36%**	**-32%**	**-36%**	**-27%**	**-29%**	**-32%**	**-36%**	**-39%**
Long Term												
Full Simulation Period[b]	**-11%**	**-10%**	**-9%**	**-9%**	**-8%**	**-8%**	**-10%**	**-10%**	**-9%**	**-9%**	**-9%**	**-9%**
Water Year Types[c]												
Wet (32%)	**-9%**	**-9%**	**-8%**	**-7%**	**-6%**	**-7%**	**-7%**	**-8%**	-4%	-4%	-4%	-4%
Above Normal (16%)	**-10%**	**-9%**	**-8%**	**-7%**	**-7%**	**-6%**	**-8%**	**-8%**	**-8%**	**-8%**	**-9%**	**-9%**
Below Normal (13%)	**-11%**	**-11%**	**-10%**	**-9%**	**-9%**	**-8%**	**-11%**	**-12%**	**-11%**	**-12%**	**-13%**	**-13%**
Dry (24%)	**-11%**	**-11%**	**-10%**	**-10%**	**-9%**	**-9%**	**-12%**	**-12%**	**-12%**	**-13%**	**-14%**	**-14%**
Critical (15%)	**-16%**	**-16%**	**-15%**	**-15%**	**-14%**	**-14%**	**-22%**	**-23%**	**-22%**	**-21%**	**-21%**	**-21%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.2 New Melones Elevation

Table 5C.3.3.2.1 New Melones Reservoir, End of Month Elevation

No Action Alternative

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,035	1,040	1,046	1,050	1,047	1,057	1,059	1,050	1,039	1,033
20%	1,013	1,015	1,017	1,021	1,029	1,032	1,036	1,043	1,040	1,032	1,021	1,016
30%	1,006	1,006	1,008	1,012	1,021	1,025	1,021	1,027	1,031	1,023	1,013	1,008
40%	975	976	995	1,004	1,012	1,014	1,011	1,006	1,006	995	983	976
50%	956	957	960	980	996	1,006	998	997	991	977	965	961
60%	943	946	950	959	966	976	976	984	976	966	953	947
70%	925	928	938	942	945	947	950	952	951	939	928	929
80%	879	881	887	887	897	912	918	924	923	912	897	888
90%	835	836	837	847	857	863	864	867	876	863	850	843
Long Term												
Full Simulation Period[b]	944	945	951	958	968	974	973	976	976	965	954	948
Water Year Types[c]												
Wet (32%)	980	982	990	1,004	1,016	1,023	1,026	1,039	1,047	1,040	1,029	1,022
Above Normal (16%)	932	937	945	960	974	986	988	997	996	985	973	897
Below Normal (13%)	968	969	972	975	985	988	985	985	983	972	960	955
Dry (24%)	943	943	944	947	951	957	955	953	948	934	922	915
Critical (15%)	856	856	862	864	870	871	860	848	840	828	818	812

Alternative 1

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,032	1,031	1,035	1,040	1,048	1,055	1,054	1,064	1,058	1,050	1,039	1,033
20%	1,018	1,018	1,019	1,021	1,037	1,045	1,041	1,049	1,041	1,035	1,024	1,019
30%	1,010	1,010	1,014	1,015	1,022	1,027	1,027	1,036	1,036	1,027	1,016	1,010
40%	988	988	999	1,008	1,014	1,020	1,017	1,012	1,014	1,003	994	988
50%	966	968	972	985	999	1,006	1,001	1,003	999	986	974	968
60%	952	952	956	967	974	984	989	989	981	969	957	952
70%	934	939	945	951	953	953	959	963	959	948	938	933
80%	892	892	896	901	915	931	929	933	927	918	902	891
90%	851	852	852	860	883	883	871	873	889	873	859	849
Long Term												
Full Simulation Period[b]	952	953	957	965	974	981	981	984	982	971	959	953
Water Year Types[c]												
Wet (32%)	989	990	997	1,009	1,021	1,030	1,034	1,047	1,050	1,043	1,032	1,025
Above Normal (16%)	941	944	951	966	979	992	995	1,003	1,001	990	978	901
Below Normal (13%)	977	977	979	982	991	994	994	993	991	980	968	962
Dry (24%)	951	950	950	953	957	962	963	960	954	941	929	922
Critical (15%)	866	866	870	872	878	879	871	856	850	835	823	817

Alternative 1 minus No Action Alternative

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%
20%	0%	0%	0%	0%	1%	1%	0%	1%	0%	0%	0%	0%
30%	0%	0%	1%	0%	0%	0%	1%	1%	0%	0%	0%	0%
40%	1%	1%	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%
50%	1%	1%	1%	1%	0%	0%	0%	1%	1%	1%	1%	1%
60%	1%	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%
70%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	0%
80%	2%	1%	1%	2%	2%	2%	1%	1%	0%	1%	1%	0%
90%	2%	2%	2%	2%	3%	2%	1%	1%	2%	1%	1%	1%
Long Term												
Full Simulation Period[b]	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Water Year Types[c]												
Wet (32%)	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%
Above Normal (16%)	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Below Normal (13%)	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Dry (24%)	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Critical (15%)	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.2.2 New Melones Reservoir, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,032	1,031	1,035	1,040	1,048	1,055	1,054	1,064	1,058	1,050	1,039	1,033
20%	1,018	1,018	1,019	1,021	1,037	1,045	1,041	1,049	1,041	1,035	1,024	1,019
30%	1,010	1,010	1,014	1,015	1,022	1,027	1,027	1,036	1,036	1,027	1,016	1,010
40%	988	988	999	1,008	1,014	1,020	1,017	1,012	1,014	1,003	994	988
50%	966	968	972	985	999	1,006	1,001	1,003	999	986	974	968
60%	952	952	956	967	974	984	989	989	981	969	957	952
70%	934	939	945	951	953	953	959	963	959	948	938	933
80%	892	892	896	901	915	931	929	933	927	918	902	891
90%	851	852	852	860	883	883	871	873	889	873	859	849
Long Term												
Full Simulation Period[b]	952	953	957	965	974	981	981	984	982	971	959	953
Water Year Types[c]												
Wet (32%)	989	990	997	1,009	1,021	1,030	1,034	1,047	1,050	1,043	1,032	1,025
Above Normal (16%)	941	944	951	966	979	992	995	1,003	1,001	990	978	901
Below Normal (13%)	977	977	979	982	991	994	994	993	991	980	968	962
Dry (24%)	951	950	950	953	957	962	963	960	954	941	929	922
Critical (15%)	866	866	870	872	878	879	871	856	850	835	823	817

No Action Alternative

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,035	1,040	1,046	1,050	1,047	1,057	1,059	1,050	1,039	1,033
20%	1,013	1,015	1,017	1,021	1,029	1,032	1,036	1,043	1,040	1,032	1,021	1,016
30%	1,006	1,006	1,008	1,012	1,021	1,025	1,021	1,027	1,031	1,023	1,013	1,008
40%	975	976	995	1,004	1,012	1,014	1,011	1,006	1,006	995	983	976
50%	956	957	960	980	996	1,006	998	997	991	977	965	961
60%	943	946	950	959	966	976	976	984	976	966	953	947
70%	925	928	938	942	945	947	950	952	951	939	928	929
80%	879	881	887	887	897	912	918	924	923	912	897	888
90%	835	836	837	847	857	863	864	867	876	863	850	843
Long Term												
Full Simulation Period[b]	944	945	951	958	968	974	973	976	976	965	954	948
Water Year Types[c]												
Wet (32%)	980	982	990	1,004	1,016	1,023	1,026	1,039	1,047	1,040	1,029	1,022
Above Normal (16%)	932	937	945	960	974	986	988	997	996	985	973	897
Below Normal (13%)	968	969	972	975	985	988	985	985	983	972	960	955
Dry (24%)	943	943	944	947	951	957	955	953	948	934	922	915
Critical (15%)	856	856	862	864	870	871	860	848	840	828	818	812

No Action Alternative minus Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%
20%	0%	0%	0%	0%	-1%	-1%	0%	-1%	0%	0%	0%	0%
30%	0%	0%	-1%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%
40%	-1%	-1%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
50%	-1%	-1%	-1%	-1%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%
60%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%
70%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%
80%	-2%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	0%	-1%	-1%	0%
90%	-2%	-2%	-2%	-2%	-3%	-2%	-1%	-1%	-2%	-1%	-1%	-1%
Long Term												
Full Simulation Period[b]	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
Water Year Types[c]												
Wet (32%)	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	0%	0%	0%	0%
Above Normal (16%)	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
Below Normal (13%)	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
Dry (24%)	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
Critical (15%)	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.2.3 New Melones Reservoir, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,032	1,031	1,035	1,040	1,048	1,055	1,054	1,064	1,058	1,050	1,039	1,033
20%	1,018	1,018	1,019	1,021	1,037	1,045	1,041	1,049	1,041	1,035	1,024	1,019
30%	1,010	1,010	1,014	1,015	1,022	1,027	1,027	1,036	1,036	1,027	1,016	1,010
40%	988	988	999	1,008	1,014	1,020	1,017	1,012	1,014	1,003	994	988
50%	966	968	972	985	999	1,006	1,001	1,003	999	986	974	968
60%	952	952	956	967	974	984	989	989	981	969	957	952
70%	934	939	945	951	953	953	959	963	959	948	938	933
80%	892	892	896	901	915	931	929	933	927	918	902	891
90%	851	852	852	860	883	883	871	873	889	873	859	849
Long Term												
Full Simulation Period[b]	952	953	957	965	974	981	981	984	982	971	959	953
Water Year Types[c]												
Wet (32%)	989	990	997	1,009	1,021	1,030	1,034	1,047	1,050	1,043	1,032	1,025
Above Normal (16%)	941	944	951	966	979	992	995	1,003	1,001	990	978	901
Below Normal (13%)	977	977	979	982	991	994	994	993	991	980	968	962
Dry (24%)	951	950	950	953	957	962	963	960	954	941	929	922
Critical (15%)	866	866	870	872	878	879	871	856	850	835	823	817

Alternative 3

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,049	1,048	1,050	1,050	1,050	1,055	1,057	1,069	1,076	1,070	1,061	1,052
20%	1,043	1,043	1,044	1,044	1,050	1,054	1,051	1,054	1,065	1,057	1,048	1,043
30%	1,025	1,025	1,031	1,038	1,045	1,050	1,044	1,050	1,051	1,040	1,031	1,027
40%	1,011	1,012	1,019	1,030	1,038	1,041	1,036	1,035	1,032	1,022	1,012	1,007
50%	995	994	996	1,008	1,018	1,024	1,020	1,024	1,020	1,008	998	994
60%	980	981	982	988	995	1,002	1,001	1,005	1,005	995	984	979
70%	946	950	964	967	978	975	974	985	976	963	952	945
80%	924	922	930	934	943	953	947	956	949	940	932	926
90%	877	879	879	886	906	911	897	896	918	901	886	876
Long Term												
Full Simulation Period[b]	974	974	978	985	993	999	998	1,002	1,003	992	981	975
Water Year Types[c]												
Wet (32%)	1,003	1,004	1,010	1,022	1,030	1,038	1,042	1,055	1,064	1,056	1,045	1,037
Above Normal (16%)	964	967	974	987	999	1,009	1,012	1,021	1,022	1,013	1,002	924
Below Normal (13%)	998	998	1,000	1,002	1,011	1,014	1,011	1,012	1,010	1,000	989	983
Dry (24%)	974	973	974	977	981	985	983	982	978	966	954	948
Critical (15%)	899	899	902	904	909	909	899	889	883	870	858	852

Alternative 3 minus Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	2%	1%	1%	0%	0%	0%	1%	2%	2%	2%	2%
20%	2%	2%	2%	2%	1%	1%	1%	0%	2%	2%	2%	2%
30%	2%	1%	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%
40%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
50%	3%	3%	2%	2%	2%	2%	2%	2%	2%	2%	3%	3%
60%	3%	3%	3%	2%	2%	2%	1%	2%	2%	3%	3%	3%
70%	1%	1%	2%	2%	3%	2%	2%	2%	2%	2%	2%	1%
80%	4%	3%	4%	4%	3%	2%	2%	2%	2%	2%	3%	4%
90%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Long Term												
Full Simulation Period[b]	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Water Year Types[c]												
Wet (32%)	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Above Normal (16%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	3%
Below Normal (13%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Dry (24%)	2%	2%	2%	2%	3%	2%	2%	2%	3%	3%	3%	3%
Critical (15%)	4%	4%	4%	4%	3%	3%	3%	4%	4%	4%	4%	4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.2.4 New Melones Reservoir, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,032	1,031	1,035	1,040	1,048	1,055	1,054	1,064	1,058	1,050	1,039	1,033
20%	1,018	1,018	1,019	1,021	1,037	1,045	1,041	1,049	1,041	1,035	1,024	1,019
30%	1,010	1,010	1,014	1,015	1,022	1,027	1,027	1,036	1,036	1,027	1,016	1,010
40%	988	988	999	1,008	1,014	1,020	1,017	1,012	1,014	1,003	994	988
50%	966	968	972	985	999	1,006	1,001	1,003	999	986	974	968
60%	952	952	956	967	974	984	989	989	981	969	957	952
70%	934	939	945	951	953	953	959	963	959	948	938	933
80%	892	892	896	901	915	931	929	933	927	918	902	891
90%	851	852	852	860	883	883	871	873	889	873	859	849
Long Term												
Full Simulation Period[b]	952	953	957	965	974	981	981	984	982	971	959	953
Water Year Types[c]												
Wet (32%)	989	990	997	1,009	1,021	1,030	1,034	1,047	1,050	1,043	1,032	1,025
Above Normal (16%)	941	944	951	966	979	992	995	1,003	1,001	990	978	901
Below Normal (13%)	977	977	979	982	991	994	994	993	991	980	968	962
Dry (24%)	951	950	950	953	957	962	963	960	954	941	929	922
Critical (15%)	866	866	870	872	878	879	871	856	850	835	823	817

Alternative 5

	End of Month Elevation (Feet)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,029	1,028	1,036	1,041	1,047	1,049	1,043	1,053	1,062	1,053	1,043	1,035
20%	1,011	1,011	1,012	1,015	1,031	1,032	1,028	1,037	1,034	1,026	1,015	1,009
30%	999	998	1,001	1,007	1,015	1,019	1,020	1,022	1,024	1,016	1,005	1,002
40%	973	973	985	996	1,004	1,010	1,003	1,002	1,003	992	979	973
50%	945	948	959	970	996	998	991	987	978	965	953	951
60%	937	940	943	949	957	961	961	972	968	957	944	938
70%	904	911	921	928	932	936	941	937	939	927	915	909
80%	860	860	874	874	874	889	880	894	902	887	873	867
90%	803	807	808	824	834	838	826	839	847	833	818	810
Long Term												
Full Simulation Period[b]	931	933	939	947	957	964	961	962	963	952	941	935
Water Year Types[c]												
Wet (32%)	969	971	980	995	1,007	1,016	1,020	1,031	1,040	1,033	1,022	1,015
Above Normal (16%)	924	930	939	954	968	980	982	988	987	975	963	890
Below Normal (13%)	954	956	959	962	973	977	972	970	968	957	944	938
Dry (24%)	930	930	932	934	939	945	940	936	931	918	905	898
Critical (15%)	837	838	842	845	853	855	834	818	815	804	796	791

Alternative 5 minus Second Basis of Comparison

	End of Month Elevation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%
20%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
30%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
40%	-2%	-2%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-2%
50%	-2%	-2%	-1%	-2%	0%	-1%	-1%	-2%	-2%	-2%	-2%	-2%
60%	-2%	-1%	-1%	-2%	-2%	-2%	-3%	-2%	-1%	-1%	-1%	-1%
70%	-3%	-3%	-3%	-2%	-2%	-2%	-2%	-3%	-2%	-2%	-2%	-3%
80%	-4%	-4%	-3%	-3%	-4%	-4%	**-5%**	-4%	-3%	-3%	-3%	-3%
90%	**-6%**	**-5%**	**-5%**	-4%	**-6%**	-5%	**-5%**	-4%	-5%	-5%	-5%	-5%
Long Term												
Full Simulation Period[b]	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
Water Year Types[c]												
Wet (32%)	-2%	-2%	-2%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%
Above Normal (16%)	-2%	-2%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-1%	-2%	-1%
Below Normal (13%)	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
Dry (24%)	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-3%	-3%	-3%
Critical (15%)	-3%	-3%	-3%	-3%	-3%	-3%	-4%	-4%	-4%	-4%	-3%	-3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.3 Stanislaus River below Goodwin Dam Flow

Table 5C.3.3.3.1 Stanislaus River below Goodwin, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	290	306	358	897	1,648	1,633	1,929	1,103	429	390	390
20%	797	200	218	232	409	1,521	1,553	1,555	1,090	310	300	300
30%	774	200	200	232	290	440	1,553	1,296	940	300	284	250
40%	774	200	200	226	236	200	1,400	1,242	855	300	283	250
50%	774	200	200	226	236	200	1,400	1,242	363	271	283	250
60%	636	200	200	219	229	200	812	918	363	265	283	249
70%	636	200	200	219	229	200	767	705	297	265	283	249
80%	578	200	200	214	221	200	767	631	261	265	283	249
90%	577	200	200	213	215	200	505	546	255	265	283	249
Long Term												
Full Simulation Period[b]	723	278	365	518	595	754	1,158	1,123	680	394	361	351
Water Year Types[c]												
Wet (23%)	781	499	787	999	1,201	2,016	1,536	1,691	1,140	715	639	692
Above Normal (24%)	714	216	282	663	676	645	1,224	1,146	962	353	292	267
Below Normal (10%)	740	225	225	282	346	365	1,454	1,201	476	269	285	256
Dry (16%)	707	208	216	234	313	200	1,030	930	374	275	277	245
Critical (27%)	683	205	215	227	255	234	741	699	281	269	262	231

Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	499	508	508	907	709	1,500	1,500	2,887	360	300	300
20%	350	415	415	415	503	415	1,462	1,500	1,709	306	300	300
30%	331	386	415	408	415	415	1,337	1,434	1,571	300	296	268
40%	286	318	326	318	415	318	991	1,303	845	300	283	268
50%	286	318	318	318	318	318	664	1,303	450	284	283	268
60%	194	247	275	242	318	275	512	1,112	398	268	283	249
70%	194	247	247	242	260	242	461	920	289	268	283	249
80%	173	233	247	242	242	242	424	848	257	265	283	249
90%	164	230	230	200	239	200	378	760	255	265	283	249
Long Term												
Full Simulation Period[b]	291	388	466	584	642	607	884	1,181	1,028	390	347	363
Water Year Types[c]												
Wet (23%)	360	612	886	1,060	1,196	1,462	1,488	1,497	2,316	678	580	731
Above Normal (24%)	301	332	376	726	742	523	940	1,225	1,200	354	288	271
Below Normal (10%)	288	373	373	383	418	316	955	1,266	613	272	285	270
Dry (16%)	278	323	331	318	392	262	581	1,094	399	276	283	255
Critical (27%)	230	287	298	275	303	256	464	890	280	283	259	228

Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-58%	72%	66%	42%	1%	-57%	-8%	-22%	162%	-16%	-23%	-23%
20%	-56%	107%	90%	79%	23%	-73%	-6%	-4%	57%	-1%	0%	0%
30%	-57%	93%	107%	76%	43%	-6%	-14%	11%	67%	0%	4%	7%
40%	-63%	59%	63%	41%	76%	59%	-29%	5%	-1%	0%	0%	7%
50%	-63%	59%	59%	41%	35%	59%	-53%	5%	24%	5%	0%	7%
60%	-69%	23%	38%	10%	39%	38%	-37%	21%	10%	1%	0%	0%
70%	-69%	23%	23%	10%	14%	21%	-40%	30%	-3%	1%	0%	0%
80%	-70%	17%	23%	13%	9%	21%	-45%	35%	-2%	0%	0%	0%
90%	-72%	15%	15%	-6%	11%	0%	-25%	39%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	-60%	39%	28%	13%	8%	-19%	-24%	5%	51%	-1%	-4%	3%
Water Year Types[c]												
Wet (23%)	-54%	23%	13%	6%	0%	-27%	-3%	-12%	103%	-5%	-9%	6%
Above Normal (24%)	-58%	54%	33%	10%	10%	-19%	-23%	7%	25%	0%	-1%	1%
Below Normal (10%)	-61%	66%	66%	36%	21%	-14%	-34%	5%	29%	1%	0%	5%
Dry (16%)	-61%	55%	53%	36%	25%	31%	-44%	18%	7%	0%	2%	4%
Critical (27%)	-66%	40%	39%	22%	19%	10%	-37%	27%	0%	5%	-1%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.3.2 Stanislaus River below Goodwin, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	499	508	508	907	709	1,500	1,500	2,887	360	300	300
20%	350	415	415	415	503	415	1,462	1,500	1,709	306	300	300
30%	331	386	415	408	415	415	1,337	1,434	1,571	300	296	268
40%	286	318	326	318	415	318	991	1,303	845	300	283	268
50%	286	318	318	318	318	318	664	1,303	450	284	283	268
60%	194	247	275	242	318	275	512	1,112	398	268	283	249
70%	194	247	247	242	260	242	461	920	289	268	283	249
80%	173	233	247	242	242	242	424	848	257	265	283	249
90%	164	230	230	200	239	200	378	760	255	265	283	249
Long Term												
Full Simulation Period[b]	291	388	466	584	642	607	884	1,181	1,028	390	347	363
Water Year Types[c]												
Wet (23%)	360	612	886	1,060	1,196	1,462	1,488	1,497	2,316	678	580	731
Above Normal (24%)	301	332	376	726	742	523	940	1,225	1,200	354	288	271
Below Normal (10%)	288	373	373	383	418	316	955	1,266	613	272	285	270
Dry (16%)	278	323	331	318	392	262	581	1,094	399	276	283	255
Critical (27%)	230	287	298	275	303	256	464	890	280	283	259	228

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	290	306	358	897	1,648	1,633	1,929	1,103	429	390	390
20%	797	200	218	232	409	1,521	1,553	1,555	1,090	310	300	300
30%	774	200	200	232	290	440	1,553	1,296	940	300	284	250
40%	774	200	200	226	236	200	1,400	1,242	855	300	283	250
50%	774	200	200	226	236	200	1,400	1,242	363	271	283	250
60%	636	200	200	219	229	200	812	918	363	265	283	249
70%	636	200	200	219	229	200	767	705	297	265	283	249
80%	578	200	200	214	221	200	767	631	261	265	283	249
90%	577	200	200	213	215	200	505	546	255	265	283	249
Long Term												
Full Simulation Period[b]	723	278	365	518	595	754	1,158	1,123	680	394	361	351
Water Year Types[c]												
Wet (23%)	781	499	787	999	1,201	2,016	1,536	1,691	1,140	715	639	692
Above Normal (24%)	714	216	282	663	676	645	1,224	1,146	962	353	292	267
Below Normal (10%)	740	225	225	282	346	365	1,454	1,201	476	269	285	256
Dry (16%)	707	208	216	234	313	200	1,030	930	374	275	277	245
Critical (27%)	683	205	215	227	255	234	741	699	281	269	262	231

No Action Alternative minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	139%	-42%	-40%	-30%	-1%	132%	9%	29%	-62%	19%	30%	30%
20%	128%	-52%	-47%	-44%	-19%	267%	6%	4%	-36%	1%	0%	0%
30%	134%	-48%	-52%	-43%	-30%	6%	16%	-10%	-40%	0%	-4%	-7%
40%	170%	-37%	-39%	-29%	-43%	-37%	41%	-5%	1%	0%	0%	-7%
50%	170%	-37%	-37%	-29%	-26%	-37%	111%	-5%	-19%	-5%	0%	-7%
60%	227%	-19%	-27%	-9%	-28%	-27%	59%	-17%	-9%	-1%	0%	0%
70%	227%	-19%	-19%	-9%	-12%	-17%	66%	-23%	3%	-1%	0%	0%
80%	234%	-14%	-19%	-12%	-9%	-17%	81%	-26%	2%	0%	0%	0%
90%	252%	-13%	-13%	6%	-10%	0%	34%	-28%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	149%	-28%	-22%	-11%	-7%	24%	31%	-5%	-34%	1%	4%	-3%
Water Year Types[c]												
Wet (23%)	117%	-19%	-11%	-6%	0%	38%	3%	13%	-51%	5%	10%	-5%
Above Normal (24%)	137%	-35%	-25%	-9%	-9%	23%	30%	-6%	-20%	0%	1%	-1%
Below Normal (10%)	157%	-40%	-40%	-26%	-17%	16%	52%	-5%	-22%	-1%	0%	-5%
Dry (16%)	154%	-36%	-35%	-26%	-20%	-24%	77%	-15%	-6%	0%	-2%	-4%
Critical (27%)	197%	-29%	-28%	-18%	-16%	-9%	60%	-22%	0%	-5%	1%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.3.3 Stanislaus River below Goodwin, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	499	508	508	907	709	1,500	1,500	2,887	360	300	300
20%	350	415	415	415	503	415	1,462	1,500	1,709	306	300	300
30%	331	386	415	408	415	415	1,337	1,434	1,571	300	296	268
40%	286	318	326	318	415	318	991	1,303	845	300	283	268
50%	286	318	318	318	318	318	664	1,303	450	284	283	268
60%	194	247	275	242	318	275	512	1,112	398	268	283	249
70%	194	247	247	242	260	242	461	920	289	268	283	249
80%	173	233	247	242	242	242	424	848	257	265	283	249
90%	164	230	230	200	239	200	378	760	255	265	283	249
Long Term												
Full Simulation Period[b]	291	388	466	584	642	607	884	1,181	1,028	390	347	363
Water Year Types[c]												
Wet (23%)	360	612	886	1,060	1,196	1,462	1,488	1,497	2,316	678	580	731
Above Normal (24%)	301	332	376	726	742	523	940	1,225	1,200	354	288	271
Below Normal (10%)	288	373	373	383	418	316	955	1,266	613	272	285	270
Dry (16%)	278	323	331	318	392	262	581	1,094	399	276	283	255
Critical (27%)	230	287	298	275	303	256	464	890	280	283	259	228

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	300	300	609	1,135	2,548	1,189	1,500	1,165	255	265	283	952
20%	300	300	305	300	1,157	344	1,500	1,165	255	265	283	249
30%	300	300	300	300	333	300	1,500	1,165	255	265	283	249
40%	252	300	300	300	300	300	1,034	963	255	265	283	249
50%	252	300	300	150	176	200	893	829	255	265	283	249
60%	252	300	300	150	173	200	893	829	255	265	283	249
70%	252	300	300	150	173	200	893	829	255	265	283	249
80%	200	200	220	150	173	200	528	466	255	265	283	249
90%	200	200	200	150	173	200	493	466	255	265	283	249
Long Term												
Full Simulation Period[b]	302	349	475	557	814	622	1,060	911	490	421	391	397
Water Year Types[c]												
Wet (23%)	368	589	1,001	1,066	2,016	1,599	1,538	1,300	1,279	952	768	885
Above Normal (24%)	323	287	394	705	732	552	1,155	955	255	265	283	260
Below Normal (10%)	269	275	275	483	552	272	1,128	909	255	265	283	249
Dry (16%)	285	285	293	251	371	200	815	730	255	265	283	249
Critical (27%)	246	264	274	191	208	218	680	643	245	254	268	240

Alternative 3 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-14%	-40%	20%	123%	181%	68%	0%	-22%	-91%	-26%	-6%	217%
20%	-14%	-28%	-27%	-28%	130%	-17%	3%	-22%	-85%	-13%	-6%	-17%
30%	-9%	-22%	-28%	-27%	-20%	-28%	12%	-19%	-84%	-12%	-4%	-7%
40%	-12%	-6%	-8%	-6%	-28%	-6%	4%	-26%	-70%	-12%	0%	-7%
50%	-12%	-6%	-6%	-53%	-45%	-37%	35%	-36%	-43%	-7%	0%	-7%
60%	30%	22%	9%	-38%	-46%	-27%	74%	-25%	-36%	-1%	0%	0%
70%	30%	22%	22%	-38%	-33%	-17%	94%	-10%	-12%	-1%	0%	0%
80%	15%	-14%	-11%	-38%	-29%	-17%	25%	-45%	0%	0%	0%	0%
90%	22%	-13%	-13%	-25%	-28%	0%	31%	-39%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	4%	-10%	2%	-5%	27%	2%	20%	-23%	-52%	8%	13%	9%
Water Year Types[c]												
Wet (23%)	2%	-4%	13%	1%	69%	9%	3%	-13%	-45%	40%	33%	21%
Above Normal (24%)	7%	-13%	5%	-3%	-1%	5%	23%	-22%	-79%	-25%	-2%	-4%
Below Normal (10%)	-7%	-26%	-26%	26%	32%	-14%	18%	-28%	-58%	-2%	-1%	-8%
Dry (16%)	3%	-12%	-12%	-21%	-5%	-24%	40%	-33%	-36%	-4%	0%	-2%
Critical (27%)	7%	-8%	-8%	-31%	-31%	-15%	47%	-28%	-12%	-10%	3%	5%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.3.4 Stanislaus River below Goodwin, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	350	499	508	508	907	709	1,500	1,500	2,887	360	300	300
20%	350	415	415	415	503	415	1,462	1,500	1,709	306	300	300
30%	331	386	415	408	415	415	1,337	1,434	1,571	300	296	268
40%	286	318	326	318	415	318	991	1,303	845	300	283	268
50%	286	318	318	318	318	318	664	1,303	450	284	283	268
60%	194	247	275	242	318	275	512	1,112	398	268	283	249
70%	194	247	247	242	260	242	461	920	289	268	283	249
80%	173	233	247	242	242	242	424	848	257	265	283	249
90%	164	230	230	200	239	200	378	760	255	265	283	249
Long Term												
Full Simulation Period[b]	291	388	466	584	642	607	884	1,181	1,028	390	347	363
Water Year Types[c]												
Wet (23%)	360	612	886	1,060	1,196	1,462	1,488	1,497	2,316	678	580	731
Above Normal (24%)	301	332	376	726	742	523	940	1,225	1,200	354	288	271
Below Normal (10%)	288	373	373	383	418	316	955	1,266	613	272	285	270
Dry (16%)	278	323	331	318	392	262	581	1,094	399	276	283	255
Critical (27%)	230	287	298	275	303	256	464	890	280	283	259	228

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	797	200	306	358	885	1,636	1,717	1,958	1,103	423	300	300
20%	797	200	211	232	415	1,521	1,633	1,815	979	307	300	300
30%	774	200	200	232	274	343	1,553	1,595	940	300	283	250
40%	774	200	200	226	236	200	1,487	1,555	759	297	283	250
50%	636	200	200	226	236	200	1,400	1,341	363	265	283	249
60%	636	200	200	219	229	200	1,324	1,242	342	265	283	249
70%	636	200	200	219	222	200	1,134	1,068	270	265	283	249
80%	577	200	200	213	221	200	825	887	255	265	283	249
90%	577	200	200	213	214	200	767	798	255	265	283	249
Long Term												
Full Simulation Period[b]	711	276	345	520	580	712	1,317	1,375	660	369	332	341
Water Year Types[c]												
Wet (23%)	766	499	690	998	1,169	1,831	1,502	1,730	1,093	619	523	655
Above Normal (24%)	705	211	298	676	659	645	1,170	1,553	962	353	292	267
Below Normal (10%)	733	225	225	281	345	365	1,416	1,267	462	269	285	256
Dry (16%)	690	208	216	233	312	200	1,454	1,370	366	275	277	245
Critical (27%)	674	200	210	221	242	234	1,175	948	257	260	253	224

Alternative 5 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	128%	-60%	-40%	-30%	-2%	131%	14%	31%	-62%	18%	0%	0%
20%	128%	-52%	-49%	-44%	-17%	267%	12%	21%	-43%	0%	0%	0%
30%	134%	-48%	-52%	-43%	-34%	-17%	16%	11%	-40%	0%	-4%	-7%
40%	170%	-37%	-39%	-29%	-43%	-37%	50%	19%	-10%	-1%	0%	-7%
50%	122%	-37%	-37%	-29%	-26%	-37%	111%	3%	-19%	-7%	0%	-7%
60%	227%	-19%	-27%	-9%	-28%	-27%	159%	12%	-14%	-1%	0%	0%
70%	227%	-19%	-19%	-9%	-15%	-17%	146%	16%	-7%	-1%	0%	0%
80%	233%	-14%	-19%	-12%	-9%	-17%	95%	5%	0%	0%	0%	0%
90%	252%	-13%	-13%	6%	-11%	0%	103%	5%	0%	0%	0%	0%
Long Term												
Full Simulation Period[b]	145%	-29%	-26%	-11%	-10%	17%	49%	16%	-36%	-5%	-4%	-6%
Water Year Types[c]												
Wet (23%)	113%	-19%	-22%	-6%	-2%	25%	1%	16%	-53%	-9%	-10%	-10%
Above Normal (24%)	134%	-36%	-21%	-7%	-11%	23%	24%	27%	-20%	0%	1%	-1%
Below Normal (10%)	155%	-40%	-40%	-27%	-17%	16%	48%	0%	-25%	-1%	0%	-5%
Dry (16%)	148%	-36%	-35%	-27%	-20%	-24%	150%	25%	-8%	0%	-2%	-4%
Critical (27%)	194%	-30%	-29%	-20%	-20%	-9%	153%	7%	-8%	-8%	-2%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.4 Stanislaus River at Mouth Flow

Table 5C.3.3.4.1 Stanislaus River at Mouth, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,122	463	442	576	1,084	1,969	1,886	1,989	1,536	751	587	646
20%	1,029	384	368	427	643	1,708	1,769	1,647	1,334	606	488	507
30%	982	348	319	368	472	520	1,696	1,536	1,221	502	462	473
40%	958	337	304	347	406	433	1,610	1,362	1,053	442	445	443
50%	879	319	290	337	369	367	1,485	1,289	635	412	445	439
60%	826	292	281	326	331	336	936	873	510	383	416	428
70%	772	267	262	312	279	314	806	755	406	372	395	389
80%	755	260	241	295	253	241	686	646	358	341	371	360
90%	676	248	224	273	230	207	572	576	311	308	331	318
Long Term												
Full Simulation Period[b]	903	398	448	630	719	903	1,279	1,207	883	546	505	533
Water Year Types[c]												
Wet (23%)	952	624	881	1,115	1,412	2,258	1,779	1,828	1,456	976	831	946
Above Normal (24%)	907	347	357	776	786	801	1,410	1,244	1,257	534	467	480
Below Normal (10%)	932	354	358	430	517	539	1,556	1,378	669	449	440	429
Dry (16%)	916	322	300	349	405	345	1,064	1,002	530	375	397	399
Critical (27%)	837	310	277	317	319	286	754	695	335	321	346	342

Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	662	653	656	688	1,117	1,153	1,804	1,679	3,009	661	569	673
20%	582	548	522	557	694	613	1,608	1,592	2,016	555	485	508
30%	507	492	464	518	562	562	1,489	1,533	1,772	502	461	481
40%	471	459	427	473	512	522	1,040	1,423	1,092	444	445	457
50%	405	421	378	412	484	446	821	1,331	694	412	443	439
60%	377	388	341	364	423	394	637	1,049	572	386	416	431
70%	346	355	329	339	331	361	529	972	402	378	395	396
80%	327	312	311	318	296	295	440	865	352	350	373	373
90%	249	280	269	283	257	233	406	787	312	318	331	316
Long Term												
Full Simulation Period[b]	471	507	549	696	766	756	1,004	1,265	1,231	542	491	545
Water Year Types[c]												
Wet (23%)	530	737	980	1,176	1,407	1,704	1,731	1,634	2,632	939	772	985
Above Normal (24%)	494	463	451	840	852	680	1,126	1,323	1,495	535	463	484
Below Normal (10%)	480	503	506	532	589	489	1,057	1,443	807	452	440	443
Dry (16%)	487	437	415	433	484	407	616	1,166	555	377	404	408
Critical (27%)	384	393	360	366	367	309	476	887	334	335	343	338

Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-41%	41%	48%	19%	3%	-41%	-4%	-16%	96%	-12%	-3%	4%
20%	-43%	43%	42%	31%	8%	-64%	-9%	-3%	51%	-8%	-1%	0%
30%	-48%	42%	46%	41%	19%	8%	-12%	0%	45%	0%	0%	2%
40%	-51%	36%	40%	36%	26%	21%	-35%	4%	4%	0%	0%	3%
50%	-54%	32%	30%	22%	31%	22%	-45%	3%	9%	0%	0%	0%
60%	-54%	33%	22%	12%	28%	17%	-32%	20%	12%	1%	0%	1%
70%	-55%	33%	26%	9%	19%	15%	-34%	29%	-1%	1%	0%	2%
80%	-57%	20%	29%	8%	17%	22%	-36%	34%	-2%	3%	1%	3%
90%	-63%	13%	20%	3%	12%	12%	-29%	37%	0%	3%	0%	-1%
Long Term												
Full Simulation Period[b]	-48%	28%	23%	10%	7%	-16%	-21%	5%	39%	-1%	-3%	2%
Water Year Types[c]												
Wet (23%)	-44%	18%	11%	5%	0%	-25%	-3%	-11%	81%	-4%	-7%	4%
Above Normal (24%)	-46%	33%	26%	8%	8%	-15%	-20%	6%	19%	0%	-1%	1%
Below Normal (10%)	-49%	42%	41%	24%	14%	-9%	-32%	5%	21%	1%	0%	3%
Dry (16%)	-47%	36%	38%	24%	19%	18%	-42%	16%	5%	0%	2%	2%
Critical (27%)	-54%	27%	30%	15%	15%	8%	-37%	28%	0%	4%	-1%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.4.2 Stanislaus River at Mouth, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	662	653	656	688	1,117	1,153	1,804	1,679	3,009	661	569	673
20%	582	548	522	557	694	613	1,608	1,592	2,016	555	485	508
30%	507	492	464	518	562	562	1,489	1,533	1,772	502	461	481
40%	471	459	427	473	512	522	1,040	1,423	1,092	444	445	457
50%	405	421	378	412	484	446	821	1,331	694	412	443	439
60%	377	388	341	364	423	394	637	1,049	572	386	416	431
70%	346	355	329	339	331	361	529	972	402	378	395	396
80%	327	312	311	318	296	295	440	865	352	350	373	373
90%	249	280	269	283	257	233	406	787	312	318	331	316
Long Term												
Full Simulation Period[b]	471	507	549	696	766	756	1,004	1,265	1,231	542	491	545
Water Year Types[c]												
Wet (23%)	530	737	980	1,176	1,407	1,704	1,731	1,634	2,632	939	772	985
Above Normal (24%)	494	463	451	840	852	680	1,126	1,323	1,495	535	463	484
Below Normal (10%)	480	503	506	532	589	489	1,057	1,443	807	452	440	443
Dry (16%)	487	437	415	433	484	407	616	1,166	555	377	404	408
Critical (27%)	384	393	360	366	367	309	476	887	334	335	343	338

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,122	463	442	576	1,084	1,969	1,886	1,989	1,536	751	587	646
20%	1,029	384	368	427	643	1,708	1,769	1,647	1,334	606	488	507
30%	982	348	319	368	472	520	1,696	1,536	1,221	502	462	473
40%	958	337	304	347	406	433	1,610	1,362	1,053	442	445	443
50%	879	319	290	337	369	367	1,485	1,289	635	412	445	439
60%	826	292	281	326	331	336	936	873	510	383	416	428
70%	772	267	262	312	279	314	806	755	406	372	395	389
80%	755	260	241	295	253	241	686	646	358	341	371	360
90%	676	248	224	273	230	207	572	576	311	308	331	318
Long Term												
Full Simulation Period[b]	903	398	448	630	719	903	1,279	1,207	883	546	505	533
Water Year Types[c]												
Wet (23%)	952	624	881	1,115	1,412	2,258	1,779	1,828	1,456	976	831	946
Above Normal (24%)	907	347	357	776	786	801	1,410	1,244	1,257	534	467	480
Below Normal (10%)	932	354	358	430	517	539	1,556	1,378	669	449	440	429
Dry (16%)	916	322	300	349	405	345	1,064	1,002	530	375	397	399
Critical (27%)	837	310	277	317	319	286	754	695	335	321	346	342

No Action Alternative minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	70%	-29%	-33%	-16%	-3%	71%	5%	19%	-49%	14%	3%	-4%
20%	77%	-30%	-30%	-23%	-7%	178%	10%	3%	-34%	9%	1%	0%
30%	94%	-29%	-31%	-29%	-16%	-8%	14%	0%	-31%	0%	0%	-2%
40%	104%	-27%	-29%	-26%	-21%	-17%	55%	-4%	-4%	0%	0%	-3%
50%	117%	-24%	-23%	-18%	-24%	-18%	81%	-3%	-8%	0%	1%	0%
60%	119%	-25%	-18%	-10%	-22%	-15%	47%	-17%	-11%	-1%	0%	-1%
70%	123%	-25%	-20%	-8%	-16%	-13%	52%	-22%	1%	-1%	0%	-2%
80%	130%	-17%	-22%	-7%	-14%	-18%	56%	-25%	2%	-3%	-1%	-3%
90%	172%	-12%	-17%	-3%	-10%	-11%	41%	-27%	0%	-3%	0%	1%
Long Term												
Full Simulation Period[b]	92%	-22%	-18%	-9%	-6%	19%	27%	-5%	-28%	1%	3%	-2%
Water Year Types[c]												
Wet (23%)	79%	-15%	-10%	-5%	0%	33%	3%	12%	-45%	4%	8%	-4%
Above Normal (24%)	84%	-25%	-21%	-8%	-8%	18%	25%	-6%	-16%	0%	1%	-1%
Below Normal (10%)	94%	-29%	-29%	-19%	-12%	10%	47%	-4%	-17%	-1%	0%	-3%
Dry (16%)	88%	-26%	-28%	-19%	-16%	-15%	73%	-14%	-5%	0%	-2%	-2%
Critical (27%)	118%	-21%	-23%	-13%	-13%	-7%	58%	-22%	0%	-4%	1%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.4.3 Stanislaus River at Mouth, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	662	653	656	688	1,117	1,153	1,804	1,679	3,009	661	569	673
20%	582	548	522	557	694	613	1,608	1,592	2,016	555	485	508
30%	507	492	464	518	562	562	1,489	1,533	1,772	502	461	481
40%	471	459	427	473	512	522	1,040	1,423	1,092	444	445	457
50%	405	421	378	412	484	446	821	1,331	694	412	443	439
60%	377	388	341	364	423	394	637	1,049	572	386	416	431
70%	346	355	329	339	331	361	529	972	402	378	395	396
80%	327	312	311	318	296	295	440	865	352	350	373	373
90%	249	280	269	283	257	233	406	787	312	318	331	316
Long Term												
Full Simulation Period[b]	471	507	549	696	766	756	1,004	1,265	1,231	542	491	545
Water Year Types[c]												
Wet (23%)	530	737	980	1,176	1,407	1,704	1,731	1,634	2,632	939	772	985
Above Normal (24%)	494	463	451	840	852	680	1,126	1,323	1,495	535	463	484
Below Normal (10%)	480	503	506	532	589	489	1,057	1,443	807	452	440	443
Dry (16%)	487	437	415	433	484	407	616	1,166	555	377	404	408
Critical (27%)	384	393	360	366	367	309	476	887	334	335	343	338

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	679	485	722	1,267	2,628	1,444	1,865	1,414	950	885	571	1,146
20%	557	456	438	518	1,301	734	1,634	1,306	679	535	480	489
30%	482	441	411	410	502	486	1,552	1,233	558	476	457	450
40%	448	424	400	374	416	419	1,240	1,043	428	424	445	439
50%	435	402	381	311	366	367	1,064	920	413	382	440	435
60%	392	372	362	275	308	334	996	882	374	374	410	415
70%	377	359	325	251	238	312	893	829	352	350	390	384
80%	360	333	300	232	201	238	575	550	304	327	367	360
90%	293	260	239	198	180	203	493	489	273	290	347	320
Long Term												
Full Simulation Period[b]	482	469	558	669	938	770	1,180	995	693	573	535	578
Water Year Types[c]												
Wet (23%)	539	714	1,096	1,183	2,227	1,841	1,781	1,437	1,596	1,213	961	1,139
Above Normal (24%)	516	418	468	818	843	708	1,341	1,054	550	446	457	473
Below Normal (10%)	461	404	408	632	723	446	1,230	1,086	449	445	438	422
Dry (16%)	495	399	377	365	463	345	849	803	411	365	404	402
Critical (27%)	401	369	336	282	272	271	692	639	299	305	351	351

Alternative 3 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3%	-26%	10%	84%	135%	25%	3%	-16%	-68%	34%	0%	70%
20%	-4%	-17%	-16%	-7%	87%	20%	2%	-18%	-66%	-4%	-1%	-4%
30%	-5%	-10%	-12%	-21%	-11%	-14%	4%	-20%	-68%	-5%	-1%	-7%
40%	-5%	-8%	-6%	-21%	-19%	-20%	19%	-27%	-61%	-5%	0%	-4%
50%	7%	-5%	1%	-24%	-25%	-18%	30%	-31%	-41%	-7%	-1%	-1%
60%	4%	-4%	6%	-24%	-27%	-15%	56%	-16%	-35%	-3%	-1%	-4%
70%	9%	1%	-1%	-26%	-28%	-14%	69%	-15%	-12%	-7%	-1%	-3%
80%	10%	7%	-4%	-27%	-32%	-19%	31%	-36%	-14%	-6%	-1%	-3%
90%	18%	-7%	-11%	-30%	-30%	-13%	21%	-38%	-13%	-9%	5%	1%
Long Term												
Full Simulation Period[b]	2%	-8%	2%	-4%	22%	2%	18%	-21%	-44%	6%	9%	6%
Water Year Types[c]												
Wet (23%)	2%	-3%	12%	1%	58%	8%	3%	-12%	-39%	29%	24%	16%
Above Normal (24%)	4%	-10%	4%	-3%	-1%	4%	19%	-20%	-63%	-17%	-1%	-2%
Below Normal (10%)	-4%	-20%	-19%	19%	23%	-9%	16%	-25%	-44%	-1%	0%	-5%
Dry (16%)	2%	-9%	-9%	-16%	-4%	-15%	38%	-31%	-26%	-3%	0%	-1%
Critical (27%)	4%	-6%	-7%	-23%	-26%	-12%	45%	-28%	-10%	-9%	3%	4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.4.4 Stanislaus River at Mouth, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	662	653	656	688	1,117	1,153	1,804	1,679	3,009	661	569	673
20%	582	548	522	557	694	613	1,608	1,592	2,016	555	485	508
30%	507	492	464	518	562	562	1,489	1,533	1,772	502	461	481
40%	471	459	427	473	512	522	1,040	1,423	1,092	444	445	457
50%	405	421	378	412	484	446	821	1,331	694	412	443	439
60%	377	388	341	364	423	394	637	1,049	572	386	416	431
70%	346	355	329	339	331	361	529	972	402	378	395	396
80%	327	312	311	318	296	295	440	865	352	350	373	373
90%	249	280	269	283	257	233	406	787	312	318	331	316
Long Term												
Full Simulation Period[b]	471	507	549	696	766	756	1,004	1,265	1,231	542	491	545
Water Year Types[c]												
Wet (23%)	530	737	980	1,176	1,407	1,704	1,731	1,634	2,632	939	772	985
Above Normal (24%)	494	463	451	840	852	680	1,126	1,323	1,495	535	463	484
Below Normal (10%)	480	503	506	532	589	489	1,057	1,443	807	452	440	443
Dry (16%)	487	437	415	433	484	407	616	1,166	555	377	404	408
Critical (27%)	384	393	360	366	367	309	476	887	334	335	343	338

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,121	456	442	570	1,081	1,952	1,950	2,148	1,536	719	571	659
20%	1,029	382	378	416	586	1,708	1,815	1,974	1,319	564	488	501
30%	979	348	319	363	483	495	1,707	1,806	1,139	502	461	473
40%	903	336	304	347	401	415	1,630	1,672	1,034	442	445	443
50%	854	318	290	337	368	365	1,529	1,434	635	407	443	439
60%	818	292	281	326	319	333	1,311	1,290	485	382	413	428
70%	764	267	262	312	272	312	1,168	1,183	383	371	389	389
80%	748	260	241	295	245	241	1,044	962	343	339	367	356
90%	681	248	224	270	230	207	865	752	300	307	305	316
Long Term												
Full Simulation Period[b]	891	396	428	631	704	860	1,437	1,458	863	521	476	522
Water Year Types[c]												
Wet (23%)	937	624	784	1,115	1,380	2,073	1,744	1,866	1,409	880	716	909
Above Normal (24%)	898	342	372	790	770	801	1,356	1,651	1,257	534	467	480
Below Normal (10%)	925	354	358	430	516	539	1,518	1,444	656	449	440	429
Dry (16%)	900	322	300	347	403	345	1,488	1,442	522	375	397	399
Critical (27%)	829	306	272	311	306	286	1,187	944	310	311	337	335

Alternative 5 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	69%	-30%	-33%	-17%	-3%	69%	8%	28%	-49%	9%	0%	-2%
20%	77%	-30%	-28%	-25%	-16%	178%	13%	24%	-35%	2%	1%	-1%
30%	93%	-29%	-31%	-30%	-14%	-12%	15%	18%	-36%	0%	0%	-2%
40%	92%	-27%	-29%	-27%	-22%	-20%	57%	17%	-5%	0%	0%	-3%
50%	111%	-25%	-23%	-18%	-24%	-18%	86%	8%	-8%	-1%	0%	0%
60%	117%	-25%	-18%	-10%	-25%	-16%	106%	23%	-15%	-1%	-1%	-1%
70%	121%	-25%	-20%	-8%	-18%	-14%	121%	22%	-5%	-2%	-1%	-2%
80%	129%	-17%	-22%	-7%	-17%	-18%	137%	11%	-3%	-3%	-1%	-4%
90%	174%	-12%	-17%	-4%	-10%	-11%	113%	-4%	-4%	-3%	-8%	0%
Long Term												
Full Simulation Period[b]	89%	-22%	-22%	-9%	-8%	14%	43%	15%	-30%	-4%	-3%	-4%
Water Year Types[c]												
Wet (23%)	77%	-15%	-20%	-5%	-2%	22%	1%	14%	-46%	-6%	-7%	-8%
Above Normal (24%)	82%	-26%	-17%	-6%	-10%	18%	20%	25%	-16%	0%	1%	-1%
Below Normal (10%)	93%	-29%	-29%	-19%	-12%	10%	44%	0%	-19%	-1%	0%	-3%
Dry (16%)	85%	-26%	-28%	-20%	-17%	-15%	142%	24%	-6%	0%	-2%	-2%
Critical (27%)	116%	-22%	-24%	-15%	-16%	-7%	149%	7%	-7%	-7%	-2%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.5 Stanislaus River below New Melones Temperature

Table 5C.3.3.5.1 Stanislaus River below New Melones Reservoir, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	56.0	53.6	52.1	51.1	50.7	51.0	51.6	52.6	53.7	55.1	57.5
20%	55.6	54.6	52.7	51.5	50.4	49.9	50.2	51.1	51.8	52.5	53.0	54.4
30%	53.4	53.3	52.3	50.9	49.7	49.5	49.9	50.5	51.1	51.8	52.5	53.0
40%	52.9	52.8	51.8	50.6	49.4	49.2	49.7	50.3	50.8	51.4	51.9	52.5
50%	52.4	52.5	51.6	50.2	49.2	49.0	49.3	49.7	50.3	51.1	51.6	52.0
60%	52.0	52.1	51.4	49.9	48.9	48.7	48.9	49.3	49.7	50.4	50.9	51.4
70%	51.4	51.6	51.0	49.6	48.7	48.1	48.4	49.0	49.3	50.0	50.5	51.0
80%	51.1	51.2	50.3	49.2	48.0	47.5	48.0	48.4	48.9	49.6	50.1	50.7
90%	49.9	49.9	49.8	48.3	47.0	46.8	46.9	47.2	47.5	48.5	48.9	49.3
Long Term												
Full Simulation Period[b]	53.4	52.8	51.7	50.2	49.1	48.8	49.2	49.9	50.6	51.3	52.2	53.1
Water Year Types[c]												
Wet (32%)	50.0	50.0	49.1	49.4	48.3	48.1	48.1	48.4	48.9	49.3	49.9	50.3
Above Normal (16%)	53.4	53.0	51.6	50.1	48.7	48.3	48.5	49.0	49.5	50.2	51.0	51.6
Below Normal (13%)	52.8	52.5	51.6	50.5	49.4	48.9	49.2	49.8	50.4	51.1	51.9	52.4
Dry (24%)	53.0	52.9	52.0	51.1	50.0	49.6	49.8	50.4	51.1	51.9	52.9	53.9
Critical (15%)	57.4	54.4	52.4	50.4	49.7	49.5	51.0	53.0	54.6	55.8	57.4	60.4

Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.1	55.8	53.6	52.1	51.4	50.7	51.0	51.6	52.5	53.6	55.2	56.5
20%	54.2	54.2	52.7	51.4	50.5	50.0	50.2	51.1	51.7	52.4	52.9	53.5
30%	53.1	53.1	52.3	51.0	49.9	49.5	49.9	50.5	51.0	51.7	52.4	52.9
40%	52.5	52.7	51.9	50.7	49.5	49.2	49.7	50.3	50.8	51.4	51.9	52.3
50%	52.1	52.3	51.5	50.3	49.3	49.1	49.3	49.7	50.3	51.0	51.5	51.9
60%	51.8	52.0	51.3	50.0	49.0	48.7	48.9	49.3	49.7	50.3	50.9	51.4
70%	51.2	51.5	51.0	49.6	48.7	48.2	48.5	48.9	49.4	50.0	50.5	50.9
80%	51.0	51.2	50.4	49.3	48.2	47.6	48.0	48.5	48.9	49.6	50.1	50.7
90%	49.6	49.9	49.8	48.5	47.0	46.9	47.0	47.2	47.6	48.4	48.7	49.3
Long Term												
Full Simulation Period[b]	53.0	52.7	51.7	50.3	49.2	48.8	49.2	49.9	50.4	51.3	52.1	52.7
Water Year Types[c]												
Wet (32%)	49.7	49.8	49.1	49.5	48.4	48.0	48.2	48.5	48.9	49.4	49.9	50.3
Above Normal (16%)	53.1	52.7	51.5	50.1	48.8	48.4	48.6	49.0	49.5	50.2	51.0	51.5
Below Normal (13%)	52.2	52.1	51.5	50.6	49.5	48.9	49.2	49.7	50.3	51.0	51.7	52.2
Dry (24%)	52.7	52.6	51.9	51.1	50.0	49.6	49.8	50.4	51.1	51.8	52.7	53.5
Critical (15%)	57.3	55.4	52.8	50.7	49.9	49.8	50.8	53.2	53.2	56.4	57.2	58.3

Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-0.7**	-0.3	0.0	0.0	0.3	0.1	0.0	0.0	-0.1	-0.1	0.1	**-0.9**
20%	**-1.4**	-0.4	0.0	-0.1	0.1	0.1	0.0	0.0	0.0	-0.1	-0.1	**-0.9**
30%	-0.3	-0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	-0.2	-0.1	-0.1
40%	-0.4	-0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.2
50%	-0.3	-0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2
60%	-0.2	-0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	-0.2	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	-0.1
80%	-0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.1	-0.1
90%	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	-0.2	0.1
Long Term												
Full Simulation Period[b]	-0.3	-0.1	0.0	0.1	0.1	0.0	0.0	0.0	-0.2	0.1	-0.1	-0.4
Water Year Types[c]												
Wet (32%)	-0.3	-0.2	0.0	0.1	0.1	-0.1	0.1	0.0	0.1	0.0	0.0	0.0
Above Normal (16%)	-0.4	-0.3	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1
Below Normal (13%)	**-0.6**	-0.4	-0.1	0.1	0.1	0.1	0.0	0.0	-0.1	-0.1	-0.2	-0.3
Dry (24%)	-0.3	-0.3	-0.1	0.0	0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.3
Critical (15%)	-0.1	**1.0**	0.3	0.3	0.3	0.2	-0.3	0.2	**-1.4**	**0.6**	-0.1	**-2.1**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.5.2 Stanislaus River below New Melones Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.1	55.8	53.6	52.1	51.4	50.7	51.0	51.6	52.5	53.6	55.2	56.5
20%	54.2	54.2	52.7	51.4	50.5	50.0	50.2	51.1	51.7	52.4	52.9	53.5
30%	53.1	53.1	52.3	51.0	49.9	49.5	49.9	50.5	51.0	51.7	52.4	52.9
40%	52.5	52.7	51.9	50.7	49.5	49.2	49.7	50.3	50.8	51.4	51.9	52.3
50%	52.1	52.3	51.5	50.3	49.3	49.1	49.3	49.7	50.3	51.0	51.5	51.9
60%	51.8	52.0	51.3	50.0	49.0	48.7	48.9	49.3	49.7	50.3	50.9	51.4
70%	51.2	51.5	51.0	49.6	48.7	48.2	48.5	48.9	49.4	50.0	50.5	50.9
80%	51.0	51.2	50.4	49.3	48.2	47.6	48.0	48.5	48.9	49.6	50.1	50.7
90%	49.6	49.9	49.8	48.5	47.0	46.9	47.0	47.2	47.6	48.4	48.7	49.3
Long Term												
Full Simulation Period[b]	53.0	52.7	51.7	50.3	49.2	48.8	49.2	49.9	50.4	51.3	52.1	52.7
Water Year Types[c]												
Wet (32%)	49.7	49.8	49.1	49.5	48.4	48.0	48.2	48.5	48.9	49.4	49.9	50.3
Above Normal (16%)	53.1	52.7	51.5	50.1	48.8	48.4	48.6	49.0	49.5	50.2	51.0	51.5
Below Normal (13%)	52.2	52.1	51.5	50.6	49.5	48.9	49.2	49.7	50.3	51.0	51.7	52.2
Dry (24%)	52.7	52.6	51.9	51.1	50.0	49.6	49.8	50.4	51.1	51.8	52.7	53.5
Critical (15%)	57.3	55.4	52.8	50.7	49.9	49.8	50.8	53.2	53.2	56.4	57.2	58.3

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.8	56.0	53.6	52.1	51.1	50.7	51.0	51.6	52.6	53.7	55.1	57.5
20%	55.6	54.6	52.7	51.5	50.4	49.9	50.2	51.1	51.8	52.5	53.0	54.4
30%	53.4	53.3	52.3	50.9	49.7	49.5	49.9	50.5	51.1	51.8	52.5	53.0
40%	52.9	52.8	51.8	50.6	49.4	49.2	49.7	50.3	50.8	51.4	51.9	52.5
50%	52.4	52.5	51.6	50.2	49.2	49.0	49.3	49.7	50.3	51.1	51.6	52.0
60%	52.0	52.1	51.4	49.9	48.9	48.7	48.9	49.3	49.7	50.4	50.9	51.4
70%	51.4	51.6	51.0	49.6	48.7	48.1	48.4	49.0	49.3	50.0	50.5	51.0
80%	51.1	51.2	50.3	49.2	48.0	47.5	48.0	48.4	48.9	49.6	50.1	50.7
90%	49.9	49.9	49.8	48.3	47.0	46.8	46.9	47.2	47.5	48.5	48.9	49.3
Long Term												
Full Simulation Period[b]	53.4	52.8	51.7	50.2	49.1	48.8	49.2	49.9	50.6	51.3	52.2	53.1
Water Year Types[c]												
Wet (32%)	50.0	50.0	49.1	49.4	48.3	48.1	48.1	48.4	48.9	49.3	49.9	50.3
Above Normal (16%)	53.4	53.0	51.6	50.1	48.7	48.3	48.5	49.0	49.5	50.2	51.0	51.6
Below Normal (13%)	52.8	52.5	51.6	50.5	49.4	48.9	49.2	49.8	50.4	51.1	51.9	52.4
Dry (24%)	53.0	52.9	52.0	51.1	50.0	49.6	49.8	50.4	51.1	51.9	52.9	53.9
Critical (15%)	57.4	54.4	52.4	50.4	49.7	49.5	51.0	53.0	54.6	55.8	57.4	60.4

No Action Alternative minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.7**	0.3	0.0	0.0	-0.3	-0.1	0.0	0.0	0.1	0.1	-0.1	**0.9**
20%	**1.4**	0.4	0.0	0.1	-0.1	-0.1	0.0	0.0	0.0	0.1	0.1	**0.9**
30%	0.3	0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.2	0.1	0.1
40%	0.4	0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
50%	0.3	0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2
60%	0.2	0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.2	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.1
80%	0.1	0.0	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.1
90%	0.3	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	-0.1	0.0	0.2	-0.1
Long Term												
Full Simulation Period[b]	0.3	0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.2	-0.1	0.1	0.4
Water Year Types[c]												
Wet (32%)	0.3	0.2	0.0	-0.1	-0.1	0.1	-0.1	0.0	-0.1	0.0	0.0	0.0
Above Normal (16%)	0.4	0.3	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1
Below Normal (13%)	**0.6**	0.4	0.1	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.1	0.2	0.3
Dry (24%)	0.3	0.3	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Critical (15%)	0.1	**-1.0**	-0.3	-0.3	-0.3	-0.2	0.3	-0.2	**1.4**	**-0.6**	0.1	**2.1**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.5.3 Stanislaus River below New Melones Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.1	55.8	53.6	52.1	51.4	50.7	51.0	51.6	52.5	53.6	55.2	56.5
20%	54.2	54.2	52.7	51.4	50.5	50.0	50.2	51.1	51.7	52.4	52.9	53.5
30%	53.1	53.1	52.3	51.0	49.9	49.5	49.9	50.5	51.0	51.7	52.4	52.9
40%	52.5	52.7	51.9	50.7	49.5	49.2	49.7	50.3	50.8	51.4	51.9	52.3
50%	52.1	52.3	51.5	50.3	49.3	49.1	49.3	49.7	50.3	51.0	51.5	51.9
60%	51.8	52.0	51.3	50.0	49.0	48.7	48.9	49.3	49.7	50.3	50.9	51.4
70%	51.2	51.5	51.0	49.6	48.7	48.2	48.5	48.9	49.4	50.0	50.5	50.9
80%	51.0	51.2	50.4	49.3	48.2	47.6	48.0	48.5	48.9	49.6	50.1	50.7
90%	49.6	49.9	49.8	48.5	47.0	46.9	47.0	47.2	47.6	48.4	48.7	49.3
Long Term												
Full Simulation Period[b]	53.0	52.7	51.7	50.3	49.2	48.8	49.2	49.9	50.4	51.3	52.1	52.7
Water Year Types[c]												
Wet (32%)	49.7	49.8	49.1	49.5	48.4	48.0	48.2	48.5	48.9	49.4	49.9	50.3
Above Normal (16%)	53.1	52.7	51.5	50.1	48.8	48.4	48.6	49.0	49.5	50.2	51.0	51.5
Below Normal (13%)	52.2	52.1	51.5	50.6	49.5	48.9	49.2	49.7	50.3	51.0	51.7	52.2
Dry (24%)	52.7	52.6	51.9	51.1	50.0	49.6	49.8	50.4	51.1	51.8	52.7	53.5
Critical (15%)	57.3	55.4	52.8	50.7	49.9	49.8	50.8	53.2	53.2	56.4	57.2	58.3

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	55.7	55.3	53.2	52.3	51.1	50.8	51.1	51.6	52.2	53.0	53.7	54.9
20%	53.6	53.7	52.5	51.4	50.4	50.1	50.3	50.9	51.6	52.1	52.6	53.3
30%	52.6	52.7	52.1	51.0	49.9	49.6	50.0	50.4	50.9	51.5	52.0	52.5
40%	52.1	52.3	51.7	50.6	49.5	49.3	49.7	50.2	50.5	51.2	51.6	52.0
50%	51.7	51.9	51.4	50.3	49.5	49.2	49.3	49.6	50.0	50.6	51.1	51.5
60%	51.3	51.6	51.3	50.0	49.1	48.7	49.0	49.3	49.7	50.2	50.7	51.2
70%	51.1	51.3	51.0	49.7	48.8	48.5	48.7	49.1	49.5	49.9	50.4	50.8
80%	50.6	50.8	50.5	49.3	48.4	48.1	48.2	48.5	48.9	49.3	49.7	50.4
90%	49.7	49.9	50.0	48.4	47.3	47.1	47.3	47.6	48.0	48.5	48.9	49.4
Long Term												
Full Simulation Period[b]	52.5	52.4	51.6	50.3	49.3	49.0	49.3	49.7	50.3	51.1	51.6	52.1
Water Year Types[c]												
Wet (32%)	49.4	49.5	49.0	49.4	48.5	48.2	48.3	48.6	48.9	49.3	49.8	50.2
Above Normal (16%)	52.4	52.2	51.3	50.1	48.9	48.5	48.8	49.1	49.5	50.1	50.6	51.1
Below Normal (13%)	51.5	51.5	51.2	50.4	49.5	49.0	49.3	49.7	50.2	50.8	51.4	51.8
Dry (24%)	52.3	52.4	51.8	50.9	50.0	49.6	49.9	50.3	50.9	51.5	52.1	52.7
Critical (15%)	55.8	55.1	52.9	51.2	50.4	50.1	50.8	51.8	53.5	55.6	56.3	56.7

Alternative 3 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-2.5**	-0.5	-0.4	0.1	-0.3	0.1	0.1	0.0	-0.3	**-0.6**	**-1.5**	**-1.6**
20%	**-0.6**	-0.4	-0.2	0.0	0.0	0.1	0.2	-0.1	-0.1	-0.3	-0.3	-0.2
30%	-0.5	-0.4	-0.2	0.0	0.0	0.1	0.0	-0.1	-0.2	-0.2	-0.4	-0.4
40%	-0.5	-0.4	-0.2	-0.1	0.0	0.1	0.0	-0.1	-0.3	-0.2	-0.3	-0.4
50%	-0.4	-0.3	-0.1	0.0	0.1	0.1	0.0	-0.1	-0.3	-0.5	-0.4	-0.4
60%	-0.4	-0.4	-0.1	0.0	0.0	0.1	0.1	0.0	0.0	-0.1	-0.2	-0.2
70%	-0.1	-0.2	0.0	0.1	0.1	0.3	0.3	0.1	0.0	-0.1	-0.1	-0.1
80%	-0.4	-0.4	0.2	0.0	0.2	0.4	0.2	0.0	0.1	-0.3	-0.4	-0.3
90%	0.1	0.0	0.2	-0.1	0.4	0.3	0.3	0.4	0.4	0.1	0.3	0.1
Long Term												
Full Simulation Period[b]	**-0.6**	-0.3	-0.1	0.0	0.1	0.1	0.1	-0.2	0.0	-0.3	-0.4	**-0.6**
Water Year Types[c]												
Wet (32%)	-0.3	-0.2	-0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	-0.1	-0.1
Above Normal (16%)	**-0.6**	**-0.5**	-0.2	0.0	0.1	0.2	0.2	0.1	0.0	-0.2	-0.3	-0.4
Below Normal (13%)	**-0.7**	**-0.6**	-0.3	-0.2	0.0	0.1	0.1	0.0	-0.1	-0.2	-0.3	-0.4
Dry (24%)	-0.3	-0.3	-0.1	-0.2	0.0	0.0	0.1	-0.1	-0.2	-0.4	**-0.6**	**-0.9**
Critical (15%)	**-1.5**	-0.3	0.2	**0.5**	0.5	0.3	0.0	**-1.4**	0.3	**-0.7**	**-1.0**	**-1.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.5.4 Stanislaus River below New Melones Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.1	55.8	53.6	52.1	51.4	50.7	51.0	51.6	52.5	53.6	55.2	56.5
20%	54.2	54.2	52.7	51.4	50.5	50.0	50.2	51.1	51.7	52.4	52.9	53.5
30%	53.1	53.1	52.3	51.0	49.9	49.5	49.9	50.5	51.0	51.7	52.4	52.9
40%	52.5	52.7	51.9	50.7	49.5	49.2	49.7	50.3	50.8	51.4	51.9	52.3
50%	52.1	52.3	51.5	50.3	49.3	49.1	49.3	49.7	50.3	51.0	51.5	51.9
60%	51.8	52.0	51.3	50.0	49.0	48.7	48.9	49.3	49.7	50.3	50.9	51.4
70%	51.2	51.5	51.0	49.6	48.7	48.2	48.5	48.9	49.4	50.0	50.5	50.9
80%	51.0	51.2	50.4	49.3	48.2	47.6	48.0	48.5	48.9	49.6	50.1	50.7
90%	49.6	49.9	49.8	48.5	47.0	46.9	47.0	47.2	47.6	48.4	48.7	49.3
Long Term												
Full Simulation Period[b]	53.0	52.7	51.7	50.3	49.2	48.8	49.2	49.9	50.4	51.3	52.1	52.7
Water Year Types[c]												
Wet (32%)	49.7	49.8	49.1	49.5	48.4	48.0	48.2	48.5	48.9	49.4	49.9	50.3
Above Normal (16%)	53.1	52.7	51.5	50.1	48.8	48.4	48.6	49.0	49.5	50.2	51.0	51.5
Below Normal (13%)	52.2	52.1	51.5	50.6	49.5	48.9	49.2	49.7	50.3	51.0	51.7	52.2
Dry (24%)	52.7	52.6	51.9	51.1	50.0	49.6	49.8	50.4	51.1	51.8	52.7	53.5
Critical (15%)	57.3	55.4	52.8	50.7	49.9	49.8	50.8	53.2	53.2	56.4	57.2	58.3

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	57.0	53.9	52.0	51.0	50.7	51.2	52.3	53.1	55.4	59.8	63.1
20%	56.7	55.0	52.8	51.4	50.3	50.0	50.4	51.4	52.0	53.4	54.4	55.9
30%	54.4	53.7	52.3	50.9	49.6	49.5	50.0	50.7	51.3	52.2	53.1	53.8
40%	53.2	53.1	51.9	50.4	49.4	49.1	49.8	50.3	50.8	51.5	52.1	52.8
50%	52.5	52.6	51.6	50.2	49.0	49.0	49.3	49.9	50.3	51.2	51.7	52.1
60%	52.1	52.3	51.2	49.7	48.7	48.6	48.9	49.4	49.7	50.4	50.9	51.5
70%	51.5	51.8	51.0	49.4	48.3	48.0	48.5	48.9	49.3	50.0	50.6	51.1
80%	51.1	51.3	50.2	48.9	47.3	47.3	47.6	48.1	48.5	49.5	50.1	50.7
90%	49.9	50.1	49.5	47.8	46.3	46.3	46.7	47.1	47.4	48.4	48.9	49.5
Long Term												
Full Simulation Period[b]	54.0	53.1	51.7	50.0	48.9	48.7	49.2	50.0	50.4	51.7	52.8	53.9
Water Year Types[c]												
Wet (32%)	50.7	50.1	49.0	49.2	48.1	47.9	47.9	48.3	48.8	49.3	49.9	50.5
Above Normal (16%)	54.0	53.4	51.8	50.1	48.6	48.2	48.5	49.0	49.6	50.4	51.2	51.9
Below Normal (13%)	53.1	52.3	51.3	50.1	49.1	48.7	49.2	50.0	50.8	51.6	52.6	53.4
Dry (24%)	53.7	53.4	52.3	51.0	49.8	49.5	49.8	50.6	51.4	52.7	54.5	55.8
Critical (15%)	57.9	55.0	52.3	49.7	49.0	49.8	51.8	54.1	52.5	56.5	58.2	60.7

Alternative 5 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.6**	**1.2**	0.3	-0.2	-0.3	0.0	0.2	**0.6**	**0.6**	**1.9**	**4.6**	**6.6**
20%	**2.5**	**0.8**	0.1	0.0	-0.1	0.0	0.3	0.3	0.3	**0.9**	**1.5**	**2.4**
30%	**1.3**	**0.6**	0.0	0.0	-0.2	0.0	0.1	0.2	0.3	**0.6**	**0.6**	**0.9**
40%	**0.7**	0.4	0.0	-0.2	-0.1	0.0	0.1	0.0	0.0	0.1	0.2	0.5
50%	0.4	0.3	0.1	-0.1	-0.3	-0.1	0.0	0.1	0.0	0.2	0.2	0.3
60%	0.3	0.3	-0.1	-0.3	-0.3	-0.1	0.0	0.1	-0.1	0.1	0.0	0.1
70%	0.4	0.3	0.0	-0.2	-0.3	-0.2	0.1	0.0	-0.1	0.0	0.1	0.2
80%	0.1	0.1	-0.1	-0.4	**-0.9**	-0.3	-0.4	-0.4	-0.3	-0.1	0.0	0.0
90%	0.3	0.1	-0.3	**-0.7**	**-0.6**	**-0.5**	-0.3	-0.1	-0.2	0.0	0.2	0.2
Long Term												
Full Simulation Period[b]	**1.0**	0.4	0.0	-0.3	-0.4	-0.1	0.0	0.2	0.0	0.3	**0.8**	**1.2**
Water Year Types[c]												
Wet (32%)	**1.0**	0.4	-0.1	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	0.0	0.1	0.1
Above Normal (16%)	**0.9**	**0.7**	0.2	0.0	-0.1	-0.2	-0.1	0.0	0.1	0.2	0.3	0.4
Below Normal (13%)	**0.9**	0.2	-0.2	-0.5	-0.3	-0.3	0.0	0.2	0.4	**0.7**	**0.9**	**1.2**
Dry (24%)	**1.0**	**0.8**	0.4	-0.1	-0.2	-0.1	0.0	0.1	0.4	**0.9**	**1.8**	**2.3**
Critical (15%)	**0.6**	-0.4	-0.5	**-0.9**	**-1.0**	0.0	**1.1**	**1.0**	**-0.7**	0.1	**0.9**	**2.4**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.6 Stanislaus River below Tulloch Reservoir Temperature

Table 5C.3.3.6.1 Stanislaus River below Tulloch Reservoir, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.5	59.0	54.8	50.7	50.2	51.2	52.6	53.6	54.7	56.5	57.4	59.2
20%	57.4	56.6	53.3	50.3	49.5	50.6	52.1	53.0	54.1	55.0	55.7	56.7
30%	55.6	55.1	52.8	49.6	48.8	50.2	51.7	52.6	53.4	54.3	55.0	55.6
40%	55.1	54.6	52.0	49.1	48.5	49.8	51.3	52.4	52.9	53.9	54.5	55.0
50%	54.5	54.1	51.7	48.7	48.0	49.6	51.0	52.1	52.6	53.7	54.1	54.5
60%	54.1	53.9	51.4	48.3	47.8	49.3	50.6	51.6	52.2	52.8	53.5	54.0
70%	53.6	53.2	50.9	47.8	47.5	48.9	50.1	51.3	51.8	52.4	53.2	53.5
80%	53.2	52.6	50.4	47.1	46.7	48.4	49.7	51.0	51.4	51.8	52.8	53.1
90%	52.0	51.8	49.9	46.3	45.8	47.5	48.8	50.2	50.3	50.8	51.5	51.8
Long Term												
Full Simulation Period[b]	55.6	54.7	51.9	48.6	48.1	49.5	50.9	52.1	52.8	53.7	54.6	55.4
Water Year Types[c]												
Wet (32%)	51.9	51.5	49.1	47.6	47.5	49.0	49.9	51.1	51.3	51.8	52.5	52.8
Above Normal (16%)	55.8	54.8	51.9	48.5	47.9	49.3	50.6	51.4	52.0	52.7	53.5	54.0
Below Normal (13%)	54.9	54.2	51.5	48.7	47.9	49.6	51.2	52.0	52.5	53.6	54.3	54.9
Dry (24%)	55.2	54.7	52.1	48.9	48.3	49.8	51.5	52.4	53.3	54.4	55.3	56.1
Critical (15%)	60.0	57.4	53.8	50.0	49.2	50.5	52.3	54.3	56.3	58.2	59.3	61.8

Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	59.7	59.0	54.7	50.9	50.3	51.4	52.7	53.7	54.6	56.4	57.2	58.4
20%	56.6	56.3	53.3	50.3	49.7	50.8	51.9	53.2	54.0	55.0	55.6	56.3
30%	55.6	55.1	52.7	49.6	49.0	50.3	51.6	52.8	53.3	54.1	54.9	55.5
40%	55.0	54.5	52.1	49.2	48.7	49.8	51.3	52.4	53.0	53.8	54.5	54.9
50%	54.6	54.2	51.7	48.9	48.2	49.7	51.0	52.2	52.7	53.5	54.0	54.4
60%	54.0	53.9	51.5	48.4	47.9	49.5	50.7	51.8	52.4	52.6	53.4	53.9
70%	53.7	53.3	51.1	48.0	47.7	49.0	50.2	51.5	51.9	52.3	53.1	53.5
80%	53.3	52.8	50.5	47.4	47.2	48.5	49.7	50.9	51.5	51.6	52.7	53.1
90%	52.1	51.9	49.8	46.6	46.1	47.6	48.9	50.2	50.7	50.7	51.5	51.7
Long Term												
Full Simulation Period[b]	55.4	54.7	52.0	48.7	48.3	49.6	50.9	52.2	52.8	53.6	54.5	55.1
Water Year Types[c]												
Wet (32%)	51.8	51.4	49.0	47.8	47.7	49.0	50.0	51.2	51.7	51.6	52.4	52.8
Above Normal (16%)	55.6	54.8	52.0	48.7	48.1	49.4	50.6	51.6	52.0	52.6	53.4	53.9
Below Normal (13%)	54.7	54.0	51.4	48.8	48.2	49.7	50.9	52.2	52.4	53.4	54.2	54.6
Dry (24%)	55.1	54.6	52.2	49.0	48.5	50.0	51.5	52.6	53.3	54.3	55.1	55.8
Critical (15%)	59.4	58.1	54.1	50.2	49.5	50.7	52.2	54.5	55.4	58.0	59.5	60.4

Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-0.7**	-0.1	0.0	0.2	0.1	0.2	0.0	0.1	-0.1	-0.1	-0.2	**-0.7**
20%	**-0.8**	-0.3	0.0	0.0	0.2	0.2	-0.2	0.2	-0.1	0.0	-0.1	-0.4
30%	0.0	0.0	-0.1	0.0	0.2	0.1	-0.1	0.2	-0.1	-0.2	-0.1	-0.1
40%	-0.1	-0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.1	-0.1	0.0	-0.1
50%	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.1	0.1	-0.2	-0.1	-0.2
60%	-0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.1	-0.1	0.0
70%	0.0	0.0	0.2	0.2	0.1	0.1	0.2	0.2	0.1	-0.2	0.0	0.0
80%	0.2	0.2	0.1	0.3	0.5	0.1	0.1	-0.1	0.1	-0.2	0.0	0.0
90%	0.1	0.1	-0.1	0.3	0.3	0.1	0.1	0.0	0.5	0.0	0.0	-0.1
Long Term												
Full Simulation Period[b]	-0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.0	-0.2	-0.1	-0.3
Water Year Types[c]												
Wet (32%)	-0.1	-0.1	0.0	0.1	0.2	0.0	0.1	0.0	0.4	-0.2	0.0	0.0
Above Normal (16%)	-0.2	0.1	0.1	0.1	0.2	0.1	-0.1	0.2	0.0	-0.1	-0.1	-0.1
Below Normal (13%)	-0.2	-0.2	-0.1	0.1	0.2	0.1	-0.3	0.3	-0.1	-0.2	-0.2	-0.2
Dry (24%)	-0.2	0.0	0.1	0.2	0.2	0.1	0.0	0.1	-0.1	-0.1	-0.2	-0.3
Critical (15%)	**-0.6**	**0.7**	0.3	0.2	0.2	0.2	-0.1	0.2	**-0.9**	-0.2	0.2	**-1.4**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.6.2 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	59.7	59.0	54.7	50.9	50.3	51.4	52.7	53.7	54.6	56.4	57.2	58.4
20%	56.6	56.3	53.3	50.3	49.7	50.8	51.9	53.2	54.0	55.0	55.6	56.3
30%	55.6	55.1	52.7	49.6	49.0	50.3	51.6	52.8	53.3	54.1	54.9	55.5
40%	55.0	54.5	52.1	49.2	48.7	49.8	51.3	52.4	53.0	53.8	54.5	54.9
50%	54.6	54.2	51.7	48.9	48.2	49.7	51.0	52.2	52.7	53.5	54.0	54.4
60%	54.0	53.9	51.5	48.4	47.9	49.5	50.7	51.8	52.4	52.6	53.4	53.9
70%	53.7	53.3	51.1	48.0	47.7	49.0	50.2	51.5	51.9	52.3	53.1	53.5
80%	53.3	52.8	50.5	47.4	47.2	48.5	49.7	50.9	51.5	51.6	52.7	53.1
90%	52.1	51.9	49.8	46.6	46.1	47.6	48.9	50.2	50.7	50.7	51.5	51.7
Long Term												
Full Simulation Period[b]	55.4	54.7	52.0	48.7	48.3	49.6	50.9	52.2	52.8	53.6	54.5	55.1
Water Year Types[c]												
Wet (32%)	51.8	51.4	49.0	47.8	47.7	49.0	50.0	51.2	51.7	51.6	52.4	52.8
Above Normal (16%)	55.6	54.8	52.0	48.7	48.1	49.4	50.6	51.6	52.0	52.6	53.4	53.9
Below Normal (13%)	54.7	54.0	51.4	48.8	48.2	49.7	50.9	52.2	52.4	53.4	54.2	54.6
Dry (24%)	55.1	54.6	52.2	49.0	48.5	50.0	51.5	52.6	53.3	54.3	55.1	55.8
Critical (15%)	59.4	58.1	54.1	50.2	49.5	50.7	52.2	54.5	55.4	58.0	59.5	60.4

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.5	59.0	54.8	50.7	50.2	51.2	52.6	53.6	54.7	56.5	57.4	59.2
20%	57.4	56.6	53.3	50.3	49.5	50.6	52.1	53.0	54.1	55.0	55.7	56.7
30%	55.6	55.1	52.8	49.6	48.8	50.2	51.7	52.6	53.4	54.3	55.0	55.6
40%	55.1	54.6	52.0	49.1	48.5	49.8	51.3	52.4	52.9	53.9	54.5	55.0
50%	54.5	54.1	51.7	48.7	48.0	49.6	51.0	52.1	52.6	53.7	54.1	54.5
60%	54.1	53.9	51.4	48.3	47.8	49.3	50.6	51.6	52.2	52.8	53.5	54.0
70%	53.6	53.2	50.9	47.8	47.5	48.9	50.1	51.3	51.8	52.4	53.2	53.5
80%	53.2	52.6	50.4	47.1	46.7	48.4	49.7	51.0	51.4	51.8	52.8	53.1
90%	52.0	51.8	49.9	46.3	45.8	47.5	48.8	50.2	50.3	50.8	51.5	51.8
Long Term												
Full Simulation Period[b]	55.6	54.7	51.9	48.6	48.1	49.5	50.9	52.1	52.8	53.7	54.6	55.4
Water Year Types[c]												
Wet (32%)	51.9	51.5	49.1	47.6	47.5	49.0	49.9	51.1	51.3	51.8	52.5	52.8
Above Normal (16%)	55.8	54.8	51.9	48.5	47.9	49.3	50.6	51.4	52.0	52.7	53.5	54.0
Below Normal (13%)	54.9	54.2	51.5	48.7	47.9	49.6	51.2	52.0	52.5	53.6	54.3	54.9
Dry (24%)	55.2	54.7	52.1	48.9	48.3	49.8	51.5	52.4	53.3	54.4	55.3	56.1
Critical (15%)	60.0	57.4	53.8	50.0	49.2	50.5	52.3	54.3	56.3	58.2	59.3	61.8

No Action Alternative minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.7**	0.1	0.0	-0.2	-0.1	-0.2	0.0	-0.1	0.1	0.1	0.2	**0.7**
20%	**0.8**	0.3	0.0	0.0	-0.2	-0.2	0.2	-0.2	0.1	0.0	0.1	0.4
30%	0.0	0.0	0.1	0.0	-0.2	-0.1	0.1	-0.2	0.1	0.2	0.1	0.1
40%	0.1	0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.1
50%	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	0.0	-0.1	-0.1	0.2	0.1	0.2
60%	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.0
70%	0.0	0.0	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	0.2	0.0	0.0
80%	-0.2	-0.2	-0.1	-0.3	-0.5	-0.1	-0.1	0.1	-0.1	0.2	0.0	0.0
90%	-0.1	-0.1	0.1	-0.3	-0.3	-0.1	-0.1	0.0	-0.5	0.0	0.0	0.1
Long Term												
Full Simulation Period[b]	0.2	-0.1	-0.1	-0.1	-0.2	-0.1	0.0	-0.1	0.0	0.2	0.1	0.3
Water Year Types[c]												
Wet (32%)	0.1	0.1	0.0	-0.1	-0.2	0.0	-0.1	0.0	-0.4	0.2	0.0	0.0
Above Normal (16%)	0.2	-0.1	-0.1	-0.1	-0.2	-0.1	0.1	-0.2	0.0	0.1	0.1	0.1
Below Normal (13%)	0.2	0.2	0.1	-0.1	-0.2	-0.1	0.3	-0.3	0.1	0.2	0.2	0.2
Dry (24%)	0.2	0.0	-0.1	-0.2	-0.2	-0.1	0.0	-0.1	0.1	0.1	0.2	0.3
Critical (15%)	**0.6**	**-0.7**	-0.3	-0.2	-0.2	-0.2	0.1	-0.2	**0.9**	0.2	-0.2	**1.4**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.6.3 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	59.7	59.0	54.7	50.9	50.3	51.4	52.7	53.7	54.6	56.4	57.2	58.4
20%	56.6	56.3	53.3	50.3	49.7	50.8	51.9	53.2	54.0	55.0	55.6	56.3
30%	55.6	55.1	52.7	49.6	49.0	50.3	51.6	52.8	53.3	54.1	54.9	55.5
40%	55.0	54.5	52.1	49.2	48.7	49.8	51.3	52.4	53.0	53.8	54.5	54.9
50%	54.6	54.2	51.7	48.9	48.2	49.7	51.0	52.2	52.7	53.5	54.0	54.4
60%	54.0	53.9	51.5	48.4	47.9	49.5	50.7	51.8	52.4	52.6	53.4	53.9
70%	53.7	53.3	51.1	48.0	47.7	49.0	50.2	51.5	51.9	52.3	53.1	53.5
80%	53.3	52.8	50.5	47.4	47.2	48.5	49.7	50.9	51.5	51.6	52.7	53.1
90%	52.1	51.9	49.8	46.6	46.1	47.6	48.9	50.2	50.7	50.7	51.5	51.7
Long Term												
Full Simulation Period[b]	55.4	54.7	52.0	48.7	48.3	49.6	50.9	52.2	52.8	53.6	54.5	55.1
Water Year Types[c]												
Wet (32%)	51.8	51.4	49.0	47.8	47.7	49.0	50.0	51.2	51.7	51.6	52.4	52.8
Above Normal (16%)	55.6	54.8	52.0	48.7	48.1	49.4	50.6	51.6	52.0	52.6	53.4	53.9
Below Normal (13%)	54.7	54.0	51.4	48.8	48.2	49.7	50.9	52.2	52.4	53.4	54.2	54.6
Dry (24%)	55.1	54.6	52.2	49.0	48.5	50.0	51.5	52.6	53.3	54.3	55.1	55.8
Critical (15%)	59.4	58.1	54.1	50.2	49.5	50.7	52.2	54.5	55.4	58.0	59.5	60.4

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	57.8	57.5	54.3	50.8	50.3	51.3	52.7	53.5	54.5	55.7	56.4	57.3
20%	56.4	55.9	53.5	50.0	49.6	50.7	52.0	52.8	53.8	54.8	55.3	55.7
30%	55.1	54.5	52.8	49.5	49.1	50.3	51.5	52.4	53.2	54.0	54.7	55.1
40%	54.6	54.1	51.8	49.0	48.7	49.9	51.4	52.2	52.8	53.6	54.2	54.5
50%	54.2	53.7	51.5	48.7	48.2	49.7	51.0	51.9	52.5	53.3	53.8	54.1
60%	53.7	53.4	51.3	48.5	47.9	49.5	50.8	51.6	52.1	52.9	53.3	53.6
70%	53.5	53.0	50.9	48.0	47.6	49.0	50.4	51.4	51.7	52.6	53.0	53.2
80%	52.9	52.7	50.5	47.5	47.2	48.6	49.9	50.9	51.2	52.1	52.5	52.8
90%	51.9	51.8	49.6	46.8	46.2	47.8	49.2	50.1	50.7	51.3	51.7	51.7
Long Term												
Full Simulation Period[b]	54.8	54.3	51.8	48.6	48.3	49.6	51.0	51.9	52.6	53.6	54.3	54.5
Water Year Types[c]												
Wet (32%)	51.6	51.2	49.0	47.8	47.9	49.0	50.1	51.0	51.4	52.1	52.5	52.6
Above Normal (16%)	55.0	54.4	51.9	48.7	48.1	49.4	50.7	51.4	51.9	52.8	53.3	53.6
Below Normal (13%)	53.9	53.5	51.2	48.7	48.1	49.6	51.0	51.9	52.4	53.4	53.9	54.3
Dry (24%)	54.8	54.3	52.0	48.9	48.3	49.9	51.5	52.4	53.2	54.1	54.7	55.1
Critical (15%)	58.0	57.4	53.9	50.1	49.4	50.8	52.3	53.6	55.1	57.5	58.7	59.0

Alternative 3 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-2.0**	**-1.5**	-0.4	-0.1	-0.1	-0.1	0.1	-0.2	-0.1	**-0.7**	**-0.8**	**-1.2**
20%	-0.2	-0.4	0.2	-0.3	-0.1	0.0	0.1	-0.3	-0.2	-0.2	-0.3	**-0.6**
30%	**-0.5**	**-0.6**	0.1	-0.1	0.1	0.0	-0.1	-0.4	-0.1	-0.1	-0.2	-0.4
40%	-0.4	-0.4	-0.3	-0.2	0.0	0.0	0.1	-0.2	-0.2	-0.2	-0.3	-0.4
50%	-0.4	-0.4	-0.2	-0.2	0.0	0.0	0.0	-0.3	-0.2	-0.2	-0.3	-0.3
60%	-0.2	-0.5	-0.2	0.1	-0.1	0.0	0.1	-0.2	-0.3	0.2	-0.1	-0.3
70%	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.2	-0.1	-0.2	0.4	-0.1	-0.3
80%	-0.4	-0.1	0.0	0.0	0.1	0.0	0.2	0.0	-0.3	0.5	-0.2	-0.3
90%	-0.1	-0.1	-0.2	0.2	0.1	0.2	0.3	-0.1	-0.1	**0.6**	0.3	0.0
Long Term												
Full Simulation Period[b]	**-0.5**	-0.4	-0.1	-0.1	0.0	0.0	0.1	-0.3	-0.2	0.1	-0.3	**-0.5**
Water Year Types[c]												
Wet (32%)	-0.3	-0.2	-0.1	0.0	0.3	0.0	0.1	-0.2	-0.3	**0.5**	0.0	-0.2
Above Normal (16%)	**-0.5**	-0.4	-0.2	0.0	0.0	0.0	0.2	-0.2	-0.1	0.1	-0.1	-0.3
Below Normal (13%)	**-0.7**	**-0.5**	-0.2	-0.1	-0.1	-0.1	0.1	-0.3	0.0	-0.1	-0.2	-0.3
Dry (24%)	-0.3	-0.3	-0.1	-0.1	-0.3	-0.1	0.1	-0.2	-0.1	-0.2	-0.5	**-0.7**
Critical (15%)	**-1.3**	**-0.8**	-0.2	-0.1	-0.1	0.1	0.1	**-0.9**	-0.2	-0.5	**-0.8**	**-1.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.6.4 Stanislaus River below Tulloch Reservoir, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	59.7	59.0	54.7	50.9	50.3	51.4	52.7	53.7	54.6	56.4	57.2	58.4
20%	56.6	56.3	53.3	50.3	49.7	50.8	51.9	53.2	54.0	55.0	55.6	56.3
30%	55.6	55.1	52.7	49.6	49.0	50.3	51.6	52.8	53.3	54.1	54.9	55.5
40%	55.0	54.5	52.1	49.2	48.7	49.8	51.3	52.4	53.0	53.8	54.5	54.9
50%	54.6	54.2	51.7	48.9	48.2	49.7	51.0	52.2	52.7	53.5	54.0	54.4
60%	54.0	53.9	51.5	48.4	47.9	49.5	50.7	51.8	52.4	52.6	53.4	53.9
70%	53.7	53.3	51.1	48.0	47.7	49.0	50.2	51.5	51.9	52.3	53.1	53.5
80%	53.3	52.8	50.5	47.4	47.2	48.5	49.7	50.9	51.5	51.6	52.7	53.1
90%	52.1	51.9	49.8	46.6	46.1	47.6	48.9	50.2	50.7	50.7	51.5	51.7
Long Term												
Full Simulation Period[b]	55.4	54.7	52.0	48.7	48.3	49.6	50.9	52.2	52.8	53.6	54.5	55.1
Water Year Types[c]												
Wet (32%)	51.8	51.4	49.0	47.8	47.7	49.0	50.0	51.2	51.7	51.6	52.4	52.8
Above Normal (16%)	55.6	54.8	52.0	48.7	48.1	49.4	50.6	51.6	52.0	52.6	53.4	53.9
Below Normal (13%)	54.7	54.0	51.4	48.8	48.2	49.7	50.9	52.2	52.4	53.4	54.2	54.6
Dry (24%)	55.1	54.6	52.2	49.0	48.5	50.0	51.5	52.6	53.3	54.3	55.1	55.8
Critical (15%)	59.4	58.1	54.1	50.2	49.5	50.7	52.2	54.5	55.4	58.0	59.5	60.4

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.5	60.2	55.1	51.0	50.0	51.1	52.9	53.9	55.2	57.1	60.8	63.2
20%	58.4	57.9	53.6	50.2	49.5	50.6	52.2	53.2	54.3	55.4	56.8	57.9
30%	56.4	55.7	52.7	49.4	48.8	50.0	51.8	52.6	53.4	54.7	55.5	56.1
40%	55.3	54.8	52.1	49.0	48.4	49.7	51.6	52.4	52.9	54.0	54.9	55.2
50%	54.7	54.2	51.8	48.7	48.0	49.5	51.0	52.2	52.6	53.7	54.2	54.6
60%	54.4	53.9	51.5	48.3	47.7	49.2	50.6	51.8	52.2	52.8	53.5	54.0
70%	53.7	53.4	50.9	47.9	47.2	48.8	50.1	51.4	51.7	52.4	53.2	53.6
80%	53.3	52.7	50.4	47.1	46.7	48.1	49.6	50.8	51.3	51.9	52.8	53.1
90%	52.1	51.8	49.8	45.9	45.6	47.4	48.7	50.1	50.1	50.7	51.4	52.0
Long Term												
Full Simulation Period[b]	56.2	55.1	52.0	48.6	48.0	49.4	50.9	52.2	52.6	53.9	55.1	56.0
Water Year Types[c]												
Wet (32%)	52.7	51.8	49.1	47.7	47.4	48.8	49.7	51.1	51.2	51.7	52.5	52.9
Above Normal (16%)	56.2	55.2	52.1	48.6	47.9	49.2	50.5	51.5	51.9	52.8	53.7	54.3
Below Normal (13%)	55.6	54.3	51.5	48.6	47.9	49.4	51.2	52.1	52.7	54.0	54.9	55.6
Dry (24%)	55.9	55.1	52.3	49.0	48.3	49.7	51.5	52.5	53.5	54.9	56.4	57.7
Critical (15%)	60.5	58.1	53.6	49.7	48.9	50.3	52.9	55.1	55.2	58.0	60.1	62.2

Alternative 5 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**4.8**	**1.3**	0.4	0.1	-0.3	-0.3	0.2	0.2	**0.7**	**0.7**	**3.5**	**4.8**
20%	**1.8**	**1.7**	0.3	-0.1	-0.2	-0.2	0.3	0.1	0.2	0.4	**1.3**	**1.6**
30%	**0.8**	**0.6**	0.0	-0.2	-0.3	-0.2	0.2	-0.2	0.1	**0.6**	**0.6**	**0.6**
40%	0.3	0.3	0.0	-0.2	-0.3	-0.1	0.3	0.0	-0.1	0.2	0.4	0.3
50%	0.1	0.1	0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	0.2	0.2	0.2
60%	0.4	0.0	0.0	0.0	-0.2	-0.3	0.0	0.0	-0.2	0.2	0.1	0.1
70%	0.1	0.1	-0.2	-0.1	-0.4	-0.2	-0.1	-0.1	-0.2	0.2	0.1	0.2
80%	-0.1	-0.1	-0.1	-0.3	-0.5	-0.4	-0.1	-0.2	-0.2	0.2	0.1	0.0
90%	0.0	-0.1	0.0	**-0.7**	**-0.6**	-0.2	-0.2	-0.1	**-0.6**	0.0	0.0	0.3
Long Term												
Full Simulation Period[b]	**0.9**	0.3	0.0	-0.1	-0.3	-0.2	0.1	0.0	-0.1	0.3	**0.6**	**1.0**
Water Year Types[c]												
Wet (32%)	**0.9**	0.4	0.1	-0.1	-0.2	-0.1	-0.2	-0.1	**-0.5**	0.2	0.1	0.1
Above Normal (16%)	**0.7**	0.4	0.1	-0.1	-0.2	-0.2	0.0	0.0	-0.1	0.2	0.3	0.4
Below Normal (13%)	**0.9**	0.2	0.1	-0.2	-0.3	-0.2	0.2	-0.1	0.3	**0.6**	**0.8**	**1.0**
Dry (24%)	**0.8**	**0.5**	0.2	-0.1	-0.2	-0.2	0.0	0.0	0.2	**0.6**	**1.3**	**1.9**
Critical (15%)	**1.1**	0.0	-0.5	-0.5	**-0.6**	-0.4	**0.7**	**0.7**	-0.2	0.0	**0.6**	**1.7**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.7 Stanislaus River below Goodwin Dam Temperature

Table 5C.3.3.7.1 Stanislaus River below Goodwin Dam, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	59.2	54.6	51.1	50.8	51.9	53.1	54.1	55.6	57.6	58.3	60.1
20%	58.0	56.6	53.3	50.3	50.2	51.4	52.4	53.6	54.8	55.9	56.5	57.4
30%	56.1	55.5	52.5	49.7	49.5	50.8	52.1	53.0	54.0	55.1	55.8	56.4
40%	55.5	54.8	51.9	49.3	48.9	50.6	51.7	52.8	53.7	54.6	55.3	55.7
50%	55.0	54.2	51.6	48.9	48.8	50.3	51.4	52.6	53.3	54.4	54.8	55.3
60%	54.5	54.0	51.3	48.4	48.4	50.0	51.0	52.1	52.8	53.5	54.2	54.6
70%	54.0	53.5	51.0	48.0	48.0	49.8	50.6	51.8	52.5	53.2	53.9	54.2
80%	53.5	52.9	50.4	47.3	47.4	49.0	50.1	51.5	52.0	52.6	53.3	53.8
90%	52.4	52.1	49.9	46.5	46.7	48.3	49.2	50.6	50.8	51.5	52.2	52.6
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.8	48.7	50.2	51.3	52.5	53.5	54.6	55.3	56.1
Water Year Types[c]												
Wet (32%)	52.3	51.8	49.1	47.9	48.0	49.4	50.2	51.5	51.8	52.5	53.2	53.4
Above Normal (16%)	56.2	55.1	52.0	48.9	48.6	50.2	51.0	51.9	52.6	53.5	54.2	54.7
Below Normal (13%)	55.3	54.4	51.4	48.8	48.6	50.3	51.5	52.4	53.2	54.4	55.1	55.6
Dry (24%)	55.6	54.8	52.0	49.0	48.9	50.7	51.9	52.9	54.1	55.2	56.0	56.8
Critical (15%)	60.4	57.6	53.6	50.1	49.9	51.3	52.8	54.9	57.2	59.4	60.4	62.6

Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.3	59.1	54.5	51.1	50.8	51.9	53.1	54.2	55.5	57.4	58.2	59.2
20%	57.3	56.5	53.3	50.3	50.2	51.4	52.4	53.6	54.9	55.9	56.4	57.0
30%	56.4	55.4	52.7	49.7	49.5	50.9	52.0	53.2	53.9	55.0	55.7	56.2
40%	55.7	54.7	52.1	49.3	49.1	50.7	51.7	52.8	53.6	54.6	55.2	55.6
50%	55.2	54.4	51.7	49.0	48.8	50.3	51.4	52.6	53.3	54.2	54.7	55.1
60%	54.9	54.1	51.5	48.5	48.5	50.1	51.1	52.2	53.0	53.4	54.1	54.6
70%	54.5	53.5	51.1	48.2	48.1	49.8	50.7	51.9	52.5	53.0	53.8	54.1
80%	53.9	52.9	50.5	47.6	47.7	49.1	50.2	51.5	52.0	52.4	53.4	53.8
90%	52.7	52.2	49.9	46.9	46.8	48.4	49.4	50.6	51.2	51.2	52.2	52.3
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.9	48.8	50.3	51.3	52.7	53.4	54.4	55.3	55.8
Water Year Types[c]												
Wet (32%)	52.4	51.6	49.1	48.0	48.1	49.5	50.3	51.6	52.1	52.3	53.1	53.4
Above Normal (16%)	56.3	55.1	52.1	49.0	48.8	50.3	51.0	52.0	52.6	53.4	54.1	54.6
Below Normal (13%)	55.3	54.2	51.3	48.9	48.7	50.4	51.4	52.6	53.1	54.2	54.9	55.4
Dry (24%)	55.7	54.8	52.1	49.1	49.1	50.7	52.0	53.0	54.0	55.1	55.9	56.5
Critical (15%)	60.0	58.3	54.0	50.3	50.1	51.5	52.7	55.0	56.4	59.0	60.5	61.3

Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.5	-0.1	-0.1	0.0	0.0	0.0	0.0	0.1	-0.1	-0.2	-0.2	**-0.9**
20%	**-0.7**	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	-0.1	-0.4
30%	0.3	-0.1	0.2	0.1	0.1	0.1	-0.1	0.2	-0.1	-0.2	-0.1	-0.2
40%	0.2	-0.1	0.1	0.0	0.2	0.1	0.0	0.1	0.0	-0.1	0.0	-0.1
50%	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	-0.2	-0.1	-0.1
60%	0.3	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.3	-0.1	-0.1	0.0
70%	0.5	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.1
80%	0.3	0.0	0.1	0.3	0.3	0.1	0.1	0.0	0.0	-0.2	0.1	0.0
90%	0.3	0.1	0.0	0.4	0.1	0.0	0.1	0.0	0.3	-0.3	0.0	-0.3
Long Term												
Full Simulation Period[b]	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	-0.1	-0.2	-0.1	-0.3
Water Year Types[c]												
Wet (32%)	0.1	-0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3	-0.2	0.0	0.0
Above Normal (16%)	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.0	-0.1	-0.1	-0.1
Below Normal (13%)	0.0	-0.2	0.0	0.1	0.1	0.1	-0.2	0.2	-0.1	-0.2	-0.2	-0.2
Dry (24%)	0.1	-0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.1	-0.1	-0.1	-0.3
Critical (15%)	-0.4	**0.7**	0.4	0.2	0.2	0.2	0.0	0.1	**-0.8**	-0.3	0.1	**-1.3**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.7.2 Stanislaus River below Goodwin Dam, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.3	59.1	54.5	51.1	50.8	51.9	53.1	54.2	55.5	57.4	58.2	59.2
20%	57.3	56.5	53.3	50.3	50.2	51.4	52.4	53.6	54.9	55.9	56.4	57.0
30%	56.4	55.4	52.7	49.7	49.5	50.9	52.0	53.2	53.9	55.0	55.7	56.2
40%	55.7	54.7	52.1	49.3	49.1	50.7	51.7	52.8	53.6	54.6	55.2	55.6
50%	55.2	54.4	51.7	49.0	48.8	50.3	51.4	52.6	53.3	54.2	54.7	55.1
60%	54.9	54.1	51.5	48.5	48.5	50.1	51.1	52.2	53.0	53.4	54.1	54.6
70%	54.5	53.5	51.1	48.2	48.1	49.8	50.7	51.9	52.5	53.0	53.8	54.1
80%	53.9	52.9	50.5	47.6	47.7	49.1	50.2	51.5	52.0	52.4	53.4	53.8
90%	52.7	52.2	49.9	46.9	46.8	48.4	49.4	50.6	51.2	51.2	52.2	52.3
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.9	48.8	50.3	51.3	52.7	53.4	54.4	55.3	55.8
Water Year Types[c]												
Wet (32%)	52.4	51.6	49.1	48.0	48.1	49.5	50.3	51.6	52.1	52.3	53.1	53.4
Above Normal (16%)	56.3	55.1	52.1	49.0	48.8	50.3	51.0	52.0	52.6	53.4	54.1	54.6
Below Normal (13%)	55.3	54.2	51.3	48.9	48.7	50.4	51.4	52.6	53.1	54.2	54.9	55.4
Dry (24%)	55.7	54.8	52.1	49.1	49.1	50.7	52.0	53.0	54.0	55.1	55.9	56.5
Critical (15%)	60.0	58.3	54.0	50.3	50.1	51.5	52.7	55.0	56.4	59.0	60.5	61.3

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.7	59.2	54.6	51.1	50.8	51.9	53.1	54.1	55.6	57.6	58.3	60.1
20%	58.0	56.6	53.3	50.3	50.2	51.4	52.4	53.6	54.8	55.9	56.5	57.4
30%	56.1	55.5	52.5	49.7	49.5	50.8	52.1	53.0	54.0	55.1	55.8	56.4
40%	55.5	54.8	51.9	49.3	48.9	50.6	51.7	52.8	53.7	54.6	55.3	55.7
50%	55.0	54.2	51.6	48.9	48.8	50.3	51.4	52.6	53.3	54.4	54.8	55.3
60%	54.5	54.0	51.3	48.4	48.4	50.0	51.0	52.1	52.8	53.5	54.2	54.6
70%	54.0	53.5	51.0	48.0	48.0	49.8	50.6	51.8	52.5	53.2	53.9	54.2
80%	53.5	52.9	50.4	47.3	47.4	49.0	50.1	51.5	52.0	52.6	53.3	53.8
90%	52.4	52.1	49.9	46.5	46.7	48.3	49.2	50.6	50.8	51.5	52.2	52.6
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.8	48.7	50.2	51.3	52.5	53.5	54.6	55.3	56.1
Water Year Types[c]												
Wet (32%)	52.3	51.8	49.1	47.9	48.0	49.4	50.2	51.5	51.8	52.5	53.2	53.4
Above Normal (16%)	56.2	55.1	52.0	48.9	48.6	50.2	51.0	51.9	52.6	53.5	54.2	54.7
Below Normal (13%)	55.3	54.4	51.4	48.8	48.6	50.3	51.5	52.4	53.2	54.4	55.1	55.6
Dry (24%)	55.6	54.8	52.0	49.0	48.9	50.7	51.9	52.9	54.1	55.2	56.0	56.8
Critical (15%)	60.4	57.6	53.6	50.1	49.9	51.3	52.8	54.9	57.2	59.4	60.4	62.6

No Action Alternative minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.5	0.1	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.2	0.2	**0.9**
20%	**0.7**	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.4
30%	-0.3	0.1	-0.2	-0.1	-0.1	-0.1	0.1	-0.2	0.1	0.2	0.1	0.2
40%	-0.2	0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.1	0.0	0.1	0.0	0.1
50%	-0.3	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.2	0.1	0.1
60%	-0.3	-0.1	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.3	0.1	0.1	0.0
70%	-0.5	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1
80%	-0.3	0.0	-0.1	-0.3	-0.3	-0.1	-0.1	0.0	0.0	0.2	-0.1	0.0
90%	-0.3	-0.1	0.0	-0.4	-0.1	0.0	-0.1	0.0	-0.3	0.3	0.0	0.3
Long Term												
Full Simulation Period[b]	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.1	0.2	0.1	0.3
Water Year Types[c]												
Wet (32%)	-0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.3	0.2	0.0	0.0
Above Normal (16%)	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.2	0.0	0.1	0.1	0.1
Below Normal (13%)	0.0	0.2	0.0	-0.1	-0.1	-0.1	0.2	-0.2	0.1	0.2	0.2	0.2
Dry (24%)	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.1	0.3
Critical (15%)	0.4	**-0.7**	-0.4	-0.2	-0.2	-0.2	0.0	-0.1	**0.8**	0.3	-0.1	**1.3**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.7.3 Stanislaus River below Goodwin Dam, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.3	59.1	54.5	51.1	50.8	51.9	53.1	54.2	55.5	57.4	58.2	59.2
20%	57.3	56.5	53.3	50.3	50.2	51.4	52.4	53.6	54.9	55.9	56.4	57.0
30%	56.4	55.4	52.7	49.7	49.5	50.9	52.0	53.2	53.9	55.0	55.7	56.2
40%	55.7	54.7	52.1	49.3	49.1	50.7	51.7	52.8	53.6	54.6	55.2	55.6
50%	55.2	54.4	51.7	49.0	48.8	50.3	51.4	52.6	53.3	54.2	54.7	55.1
60%	54.9	54.1	51.5	48.5	48.5	50.1	51.1	52.2	53.0	53.4	54.1	54.6
70%	54.5	53.5	51.1	48.2	48.1	49.8	50.7	51.9	52.5	53.0	53.8	54.1
80%	53.9	52.9	50.5	47.6	47.7	49.1	50.2	51.5	52.0	52.4	53.4	53.8
90%	52.7	52.2	49.9	46.9	46.8	48.4	49.4	50.6	51.2	51.2	52.2	52.3
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.9	48.8	50.3	51.3	52.7	53.4	54.4	55.3	55.8
Water Year Types[c]												
Wet (32%)	52.4	51.6	49.1	48.0	48.1	49.5	50.3	51.6	52.1	52.3	53.1	53.4
Above Normal (16%)	56.3	55.1	52.1	49.0	48.8	50.3	51.0	52.0	52.6	53.4	54.1	54.6
Below Normal (13%)	55.3	54.2	51.3	48.9	48.7	50.4	51.4	52.6	53.1	54.2	54.9	55.4
Dry (24%)	55.7	54.8	52.1	49.1	49.1	50.7	52.0	53.0	54.0	55.1	55.9	56.5
Critical (15%)	60.0	58.3	54.0	50.3	50.1	51.5	52.7	55.0	56.4	59.0	60.5	61.3

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	58.5	57.6	54.1	50.9	50.8	52.1	53.1	54.0	55.3	56.7	57.3	58.2
20%	57.0	56.0	53.3	50.1	50.1	51.4	52.4	53.5	54.7	55.6	56.0	56.6
30%	56.0	54.7	52.8	49.7	49.5	50.9	52.0	52.9	53.9	54.8	55.4	55.9
40%	55.2	54.3	51.7	49.1	49.1	50.7	51.7	52.6	53.5	54.4	54.9	55.2
50%	54.8	53.9	51.5	48.9	48.8	50.4	51.4	52.4	53.2	54.0	54.5	54.8
60%	54.5	53.7	51.3	48.6	48.5	50.1	51.2	52.1	52.8	53.6	54.0	54.4
70%	54.1	53.2	50.8	48.1	48.1	49.8	50.8	51.9	52.5	53.3	53.7	53.9
80%	53.4	52.9	50.5	47.7	47.7	49.0	50.3	51.4	52.0	52.9	53.2	53.4
90%	52.6	52.1	49.7	47.1	46.9	48.6	49.6	50.6	51.4	51.9	52.4	52.4
Long Term												
Full Simulation Period[b]	55.5	54.5	51.8	48.8	48.9	50.4	51.4	52.4	53.4	54.4	55.0	55.3
Water Year Types[c]												
Wet (32%)	52.2	51.5	49.0	48.0	48.4	49.6	50.4	51.5	52.1	52.8	53.1	53.2
Above Normal (16%)	55.8	54.7	51.9	49.0	48.8	50.2	51.1	51.9	52.7	53.6	54.0	54.3
Below Normal (13%)	54.6	53.7	51.1	48.8	48.6	50.4	51.4	52.3	53.2	54.2	54.6	55.1
Dry (24%)	55.4	54.5	52.0	49.0	48.9	50.7	51.9	52.9	54.0	54.9	55.4	55.9
Critical (15%)	58.7	57.5	53.8	50.2	50.2	51.6	52.7	54.2	56.0	58.4	59.6	59.8

Alternative 3 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.7**	**-1.4**	-0.4	-0.1	0.0	0.2	0.0	-0.2	-0.2	**-0.7**	**-0.9**	**-0.9**
20%	-0.3	**-0.5**	0.1	-0.3	-0.1	0.0	0.1	-0.1	-0.2	-0.3	-0.4	-0.4
30%	-0.4	**-0.7**	0.1	-0.1	-0.1	0.0	0.0	-0.3	0.0	-0.2	-0.3	-0.3
40%	-0.5	-0.4	-0.3	-0.2	0.0	0.0	0.0	-0.2	-0.1	-0.1	-0.4	-0.4
50%	-0.4	-0.5	-0.2	-0.1	0.0	0.1	0.0	-0.2	-0.1	-0.2	-0.2	-0.3
60%	-0.3	-0.4	-0.2	0.1	-0.1	-0.1	0.0	-0.1	-0.2	0.2	0.0	-0.2
70%	-0.4	-0.2	-0.2	-0.1	0.0	0.0	0.1	-0.1	0.0	0.3	-0.1	-0.3
80%	-0.5	-0.1	-0.1	0.1	0.0	-0.1	0.0	-0.1	0.0	0.4	-0.3	-0.4
90%	-0.1	-0.1	-0.1	0.3	0.1	0.2	0.3	0.0	0.2	**0.6**	0.2	0.1
Long Term												
Full Simulation Period[b]	**-0.5**	-0.4	-0.1	-0.1	0.0	0.0	0.0	-0.3	-0.1	0.0	-0.3	**-0.5**
Water Year Types[c]												
Wet (32%)	-0.3	-0.2	-0.1	0.0	0.2	0.1	0.1	-0.1	-0.1	0.5	0.0	-0.2
Above Normal (16%)	**-0.5**	-0.4	-0.2	0.0	0.0	0.0	0.1	-0.1	0.1	0.2	-0.1	-0.3
Below Normal (13%)	**-0.7**	**-0.5**	-0.2	-0.1	-0.1	0.0	0.0	-0.3	0.1	-0.1	-0.2	-0.3
Dry (24%)	-0.3	-0.3	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.2	-0.5	**-0.7**
Critical (15%)	**-1.3**	**-0.8**	-0.2	-0.1	0.0	0.1	0.0	**-0.8**	-0.4	**-0.6**	**-0.9**	**-1.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.7.4 Stanislaus River below Goodwin Dam, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	60.3	59.1	54.5	51.1	50.8	51.9	53.1	54.2	55.5	57.4	58.2	59.2
20%	57.3	56.5	53.3	50.3	50.2	51.4	52.4	53.6	54.9	55.9	56.4	57.0
30%	56.4	55.4	52.7	49.7	49.5	50.9	52.0	53.2	53.9	55.0	55.7	56.2
40%	55.7	54.7	52.1	49.3	49.1	50.7	51.7	52.8	53.6	54.6	55.2	55.6
50%	55.2	54.4	51.7	49.0	48.8	50.3	51.4	52.6	53.3	54.2	54.7	55.1
60%	54.9	54.1	51.5	48.5	48.5	50.1	51.1	52.2	53.0	53.4	54.1	54.6
70%	54.5	53.5	51.1	48.2	48.1	49.8	50.7	51.9	52.5	53.0	53.8	54.1
80%	53.9	52.9	50.5	47.6	47.7	49.1	50.2	51.5	52.0	52.4	53.4	53.8
90%	52.7	52.2	49.9	46.9	46.8	48.4	49.4	50.6	51.2	51.2	52.2	52.3
Long Term												
Full Simulation Period[b]	56.0	54.9	51.9	48.9	48.8	50.3	51.3	52.7	53.4	54.4	55.3	55.8
Water Year Types[c]												
Wet (32%)	52.4	51.6	49.1	48.0	48.1	49.5	50.3	51.6	52.1	52.3	53.1	53.4
Above Normal (16%)	56.3	55.1	52.1	49.0	48.8	50.3	51.0	52.0	52.6	53.4	54.1	54.6
Below Normal (13%)	55.3	54.2	51.3	48.9	48.7	50.4	51.4	52.6	53.1	54.2	54.9	55.4
Dry (24%)	55.7	54.8	52.1	49.1	49.1	50.7	52.0	53.0	54.0	55.1	55.9	56.5
Critical (15%)	60.0	58.3	54.0	50.3	50.1	51.5	52.7	55.0	56.4	59.0	60.5	61.3

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.8	60.4	54.8	51.2	50.7	51.9	53.2	54.3	56.3	58.3	61.3	64.0
20%	58.8	58.0	53.4	50.3	50.2	51.3	52.5	53.7	55.1	56.6	57.6	58.7
30%	56.7	56.0	52.7	49.6	49.4	50.8	52.2	53.0	54.2	55.6	56.3	56.9
40%	55.7	54.9	52.0	49.1	48.9	50.5	51.9	52.9	53.8	54.7	55.6	55.9
50%	55.2	54.4	51.6	48.9	48.8	50.1	51.4	52.7	53.2	54.5	54.9	55.3
60%	54.8	54.1	51.5	48.4	48.3	49.9	51.0	52.2	52.8	53.5	54.2	54.7
70%	54.2	53.6	50.9	48.0	47.8	49.5	50.6	51.8	52.2	53.2	53.9	54.3
80%	53.6	53.0	50.5	47.3	47.4	48.9	50.0	51.2	52.0	52.6	53.4	53.7
90%	52.5	52.1	49.7	46.2	46.7	48.2	49.1	50.5	50.7	51.5	52.2	52.7
Long Term												
Full Simulation Period[b]	56.6	55.3	52.0	48.8	48.6	50.1	51.3	52.7	53.4	54.8	55.9	56.7
Water Year Types[c]												
Wet (32%)	53.1	52.1	49.2	47.9	47.9	49.3	50.1	51.4	51.7	52.5	53.2	53.6
Above Normal (16%)	56.6	55.5	52.2	48.9	48.6	50.1	50.9	52.0	52.5	53.6	54.4	55.0
Below Normal (13%)	56.0	54.4	51.5	48.7	48.5	50.2	51.5	52.5	53.4	54.8	55.6	56.4
Dry (24%)	56.3	55.3	52.2	49.1	48.9	50.6	51.9	53.0	54.3	55.7	57.1	58.4
Critical (15%)	60.9	58.3	53.5	49.8	49.7	51.1	53.3	55.7	56.5	59.3	61.3	63.0

Alternative 5 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**4.5**	**1.4**	0.3	0.1	-0.2	-0.1	0.1	0.1	**0.8**	**1.0**	**3.2**	**4.8**
20%	**1.4**	**1.6**	0.1	-0.1	-0.1	-0.1	0.2	0.1	0.3	**0.6**	**1.2**	**1.7**
30%	0.3	**0.6**	-0.1	-0.1	-0.1	-0.1	0.2	-0.2	0.3	**0.6**	**0.6**	**0.7**
40%	0.0	0.2	-0.1	-0.2	-0.2	-0.2	0.1	0.0	0.2	0.1	0.4	0.3
50%	0.0	0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.3	0.2	0.1
60%	-0.1	0.0	0.0	-0.1	-0.2	-0.2	-0.1	0.0	-0.2	0.2	0.1	0.1
70%	-0.3	0.2	-0.2	-0.2	-0.3	-0.3	-0.1	-0.1	-0.3	0.1	0.1	0.2
80%	-0.2	0.0	0.0	-0.3	-0.3	-0.2	-0.2	-0.2	0.0	0.2	0.0	-0.1
90%	-0.2	-0.1	-0.2	**-0.7**	-0.1	-0.2	-0.2	-0.1	-0.5	0.2	0.0	0.4
Long Term												
Full Simulation Period[b]	**0.6**	0.4	0.0	-0.1	-0.2	-0.2	0.0	0.0	0.0	0.4	**0.6**	**1.0**
Water Year Types[c]												
Wet (32%)	**0.6**	0.4	0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.4	0.2	0.1	0.2
Above Normal (16%)	0.3	0.4	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.2	0.3	0.4
Below Normal (13%)	**0.7**	0.2	0.1	-0.1	-0.2	-0.2	0.1	-0.1	0.3	**0.5**	**0.8**	**1.0**
Dry (24%)	**0.5**	**0.5**	0.1	0.0	-0.1	-0.1	-0.1	0.0	0.2	**0.6**	**1.2**	**1.9**
Critical (15%)	**0.8**	0.0	**-0.5**	-0.4	-0.5	-0.4	**0.5**	**0.7**	0.1	0.3	**0.8**	**1.7**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.8 Stanislaus River at Orange Blossom Bridge Temperature

Table 5C.3.3.8.1 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.6	58.7	53.5	51.3	52.5	55.8	55.3	57.7	63.9	65.6	65.4	64.5
20%	59.3	56.9	52.6	50.8	51.7	55.1	54.8	56.8	62.5	64.6	64.2	63.3
30%	57.6	56.2	52.3	50.1	51.2	54.6	54.1	56.0	61.6	64.1	63.4	62.0
40%	56.8	55.1	51.5	49.6	50.7	54.0	53.6	55.3	60.7	63.7	62.9	61.7
50%	56.4	54.9	51.1	49.1	50.3	53.7	53.1	55.0	59.3	63.2	62.5	61.2
60%	55.9	54.6	50.7	48.8	50.1	53.2	52.7	54.4	56.6	62.6	62.2	60.7
70%	55.2	54.1	50.5	48.4	49.6	52.1	52.2	53.9	55.9	62.1	61.9	60.4
80%	54.9	53.7	50.2	47.9	49.2	51.0	51.9	53.6	55.3	61.5	61.5	59.9
90%	54.0	52.7	49.8	47.1	48.4	49.7	50.8	52.6	54.4	58.6	59.8	58.2
Long Term												
Full Simulation Period[b]	57.2	55.3	51.4	49.2	50.4	53.2	53.2	55.1	59.0	62.9	62.7	61.5
Water Year Types[c]												
Wet (32%)	53.6	52.3	49.0	48.6	49.5	50.8	51.5	53.3	55.2	60.0	60.0	58.5
Above Normal (16%)	57.5	55.7	51.7	49.7	50.7	53.6	52.8	54.6	58.0	62.5	62.2	60.9
Below Normal (13%)	56.5	54.7	50.9	49.1	50.4	53.9	53.4	54.8	59.5	63.4	62.8	61.5
Dry (24%)	56.9	55.2	51.3	49.2	50.7	54.5	54.1	56.0	61.4	64.0	63.5	62.4
Critical (15%)	61.4	57.7	52.6	50.1	51.7	54.9	55.5	58.2	63.7	67.5	67.5	66.9

Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.7	58.9	53.4	51.2	52.1	55.3	56.2	56.9	63.5	65.3	65.3	64.1
20%	60.8	57.0	52.7	50.8	51.5	54.8	55.6	55.9	62.4	64.5	64.1	62.9
30%	60.1	55.7	52.4	50.0	50.9	54.3	55.3	55.5	61.6	64.0	63.3	61.9
40%	58.9	55.2	51.7	49.5	50.5	53.6	54.6	55.2	60.0	63.6	62.9	61.5
50%	58.3	54.7	51.3	49.1	50.2	53.1	53.9	54.8	58.4	63.0	62.5	61.0
60%	57.6	54.4	51.0	49.0	49.8	52.8	53.3	54.4	56.3	62.5	62.2	60.6
70%	57.0	54.1	50.7	48.4	49.5	52.2	52.6	54.0	55.4	61.9	61.8	60.1
80%	56.5	53.4	50.3	48.0	49.1	51.5	51.9	53.7	54.8	61.3	61.4	59.6
90%	55.7	52.7	49.9	47.4	48.5	50.5	51.0	52.8	53.5	60.1	60.3	58.2
Long Term												
Full Simulation Period[b]	58.8	55.2	51.5	49.2	50.3	53.1	53.9	54.9	58.5	62.8	62.7	61.2
Water Year Types[c]												
Wet (32%)	55.0	52.1	49.0	48.6	49.3	51.2	51.7	53.5	54.5	60.1	60.3	58.4
Above Normal (16%)	59.3	55.5	51.9	49.7	50.5	53.3	53.4	54.4	57.7	62.4	62.2	60.7
Below Normal (13%)	57.9	54.4	50.9	49.1	50.0	53.3	54.1	54.8	58.9	63.3	62.7	61.1
Dry (24%)	58.8	55.1	51.5	49.3	50.6	54.1	55.3	55.6	61.3	63.9	63.4	62.2
Critical (15%)	62.6	58.2	53.1	50.3	51.8	55.0	56.5	57.6	63.3	66.8	67.6	66.5

Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**1.1**	0.2	-0.1	0.0	-0.4	-0.5	**0.9**	**-0.8**	-0.3	-0.2	-0.1	-0.4
20%	**1.5**	0.1	0.0	0.0	-0.1	-0.2	**0.8**	**-0.9**	-0.1	-0.1	-0.1	-0.4
30%	**2.5**	**-0.5**	0.1	-0.1	-0.3	-0.3	**1.2**	-0.4	-0.1	-0.1	-0.1	-0.1
40%	**2.1**	0.2	0.3	-0.1	-0.2	-0.4	**1.0**	-0.1	**-0.7**	-0.1	0.0	-0.2
50%	**1.9**	-0.2	0.2	0.0	-0.1	**-0.6**	**0.8**	-0.2	**-0.9**	-0.2	0.0	-0.2
60%	**1.7**	-0.1	0.3	0.2	-0.3	-0.4	**0.6**	0.0	-0.3	-0.1	0.0	-0.1
70%	**1.7**	0.0	0.2	0.0	-0.1	0.1	0.4	0.1	**-0.5**	-0.2	0.0	-0.3
80%	**1.6**	-0.2	0.1	0.1	-0.2	**0.6**	0.1	0.1	**-0.5**	-0.2	-0.1	-0.3
90%	**1.7**	0.0	0.1	0.3	0.1	**0.8**	0.2	0.2	**-1.0**	**1.5**	**0.5**	0.1
Long Term												
Full Simulation Period[b]	**1.6**	-0.1	0.2	0.0	-0.1	-0.1	**0.7**	-0.2	-0.4	-0.1	0.1	-0.2
Water Year Types[c]												
Wet (32%)	**1.4**	-0.2	0.0	0.0	-0.1	0.5	0.2	0.1	**-0.7**	0.2	0.3	-0.1
Above Normal (16%)	**1.8**	-0.2	0.2	0.0	-0.2	-0.3	**0.6**	-0.2	-0.3	-0.1	-0.1	-0.2
Below Normal (13%)	**1.4**	-0.3	0.1	0.0	-0.3	**-0.6**	**0.8**	0.0	**-0.6**	-0.2	-0.1	-0.3
Dry (24%)	**1.9**	-0.1	0.2	0.1	-0.1	-0.5	**1.2**	-0.5	-0.1	-0.1	-0.1	-0.2
Critical (15%)	**1.2**	0.5	0.4	0.2	0.1	0.1	**1.0**	**-0.7**	-0.4	**-0.7**	0.1	-0.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.8.2 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.7	58.9	53.4	51.2	52.1	55.3	56.2	56.9	63.5	65.3	65.3	64.1
20%	60.8	57.0	52.7	50.8	51.5	54.8	55.6	55.9	62.4	64.5	64.1	62.9
30%	60.1	55.7	52.4	50.0	50.9	54.3	55.3	55.5	61.6	64.0	63.3	61.9
40%	58.9	55.2	51.7	49.5	50.5	53.6	54.6	55.2	60.0	63.6	62.9	61.5
50%	58.3	54.7	51.3	49.1	50.2	53.1	53.9	54.8	58.4	63.0	62.5	61.0
60%	57.6	54.4	51.0	49.0	49.8	52.8	53.3	54.4	56.3	62.5	62.2	60.6
70%	57.0	54.1	50.7	48.4	49.5	52.2	52.6	54.0	55.4	61.9	61.8	60.1
80%	56.5	53.4	50.3	48.0	49.1	51.5	51.9	53.7	54.8	61.3	61.4	59.6
90%	55.7	52.7	49.9	47.4	48.5	50.5	51.0	52.8	53.5	60.1	60.3	58.2
Long Term												
Full Simulation Period[b]	58.8	55.2	51.5	49.2	50.3	53.1	53.9	54.9	58.5	62.8	62.7	61.2
Water Year Types[c]												
Wet (32%)	55.0	52.1	49.0	48.6	49.3	51.2	51.7	53.5	54.5	60.1	60.3	58.4
Above Normal (16%)	59.3	55.5	51.9	49.7	50.5	53.3	53.4	54.4	57.7	62.4	62.2	60.7
Below Normal (13%)	57.9	54.4	50.9	49.1	50.0	53.3	54.1	54.8	58.9	63.3	62.7	61.1
Dry (24%)	58.8	55.1	51.5	49.3	50.6	54.1	55.3	55.6	61.3	63.9	63.4	62.2
Critical (15%)	62.6	58.2	53.1	50.3	51.8	55.0	56.5	57.6	63.3	66.8	67.6	66.5

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.6	58.7	53.5	51.3	52.5	55.8	55.3	57.7	63.9	65.6	65.4	64.5
20%	59.3	56.9	52.6	50.8	51.7	55.1	54.8	56.8	62.5	64.6	64.2	63.3
30%	57.6	56.2	52.3	50.1	51.2	54.6	54.1	56.0	61.6	64.1	63.4	62.0
40%	56.8	55.1	51.5	49.6	50.7	54.0	53.6	55.3	60.7	63.7	62.9	61.7
50%	56.4	54.9	51.1	49.1	50.3	53.7	53.1	55.0	59.3	63.2	62.5	61.2
60%	55.9	54.6	50.7	48.8	50.1	53.2	52.7	54.4	56.6	62.6	62.2	60.7
70%	55.2	54.1	50.5	48.4	49.6	52.1	52.2	53.9	55.9	62.1	61.9	60.4
80%	54.9	53.7	50.2	47.9	49.2	51.0	51.9	53.6	55.3	61.5	61.5	59.9
90%	54.0	52.7	49.8	47.1	48.4	49.7	50.8	52.6	54.4	58.6	59.8	58.2
Long Term												
Full Simulation Period[b]	57.2	55.3	51.4	49.2	50.4	53.2	53.2	55.1	59.0	62.9	62.7	61.5
Water Year Types[c]												
Wet (32%)	53.6	52.3	49.0	48.6	49.5	50.8	51.5	53.3	55.2	60.0	60.0	58.5
Above Normal (16%)	57.5	55.7	51.7	49.7	50.7	53.6	52.8	54.6	58.0	62.5	62.2	60.9
Below Normal (13%)	56.5	54.7	50.9	49.1	50.4	53.9	53.4	54.8	59.5	63.4	62.8	61.5
Dry (24%)	56.9	55.2	51.3	49.2	50.7	54.5	54.1	56.0	61.4	64.0	63.5	62.4
Critical (15%)	61.4	57.7	52.6	50.1	51.7	54.9	55.5	58.2	63.7	67.5	67.5	66.9

No Action Alternative minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1.1	-0.2	0.1	0.0	0.4	0.5	-0.9	0.8	0.3	0.2	0.1	0.4
20%	-1.5	-0.1	0.0	0.0	0.1	0.2	-0.8	0.9	0.1	0.1	0.1	0.4
30%	-2.5	0.5	-0.1	0.1	0.3	0.3	-1.2	0.4	0.1	0.1	0.1	0.1
40%	-2.1	-0.2	-0.3	0.1	0.2	0.4	-1.0	0.1	0.7	0.1	0.0	0.2
50%	-1.9	0.2	-0.2	0.0	0.1	0.6	-0.8	0.2	0.9	0.2	0.0	0.2
60%	-1.7	0.1	-0.3	-0.2	0.3	0.4	-0.6	0.0	0.3	0.1	0.0	0.1
70%	-1.7	0.0	-0.2	0.0	0.1	-0.1	-0.4	-0.1	0.5	0.2	0.0	0.3
80%	-1.6	0.2	-0.1	-0.1	0.2	-0.6	-0.1	-0.1	0.5	0.2	0.1	0.3
90%	-1.7	0.0	-0.1	-0.3	-0.1	-0.8	-0.2	-0.2	1.0	-1.5	-0.5	-0.1
Long Term												
Full Simulation Period[b]	-1.6	0.1	-0.2	0.0	0.1	0.1	-0.7	0.2	0.4	0.1	-0.1	0.2
Water Year Types[c]												
Wet (32%)	-1.4	0.2	0.0	0.0	0.1	-0.5	-0.2	-0.1	0.7	-0.2	-0.3	0.1
Above Normal (16%)	-1.8	0.2	-0.2	0.0	0.2	0.3	-0.6	0.2	0.3	0.1	0.1	0.2
Below Normal (13%)	-1.4	0.3	-0.1	0.0	0.3	0.6	-0.8	0.0	0.6	0.2	0.1	0.3
Dry (24%)	-1.9	0.1	-0.2	-0.1	0.1	0.5	-1.2	0.5	0.1	0.1	0.1	0.2
Critical (15%)	-1.2	-0.5	-0.4	-0.2	-0.1	-0.1	-1.0	0.7	0.4	0.7	-0.1	0.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.8.3 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.7	58.9	53.4	51.2	52.1	55.3	56.2	56.9	63.5	65.3	65.3	64.1
20%	60.8	57.0	52.7	50.8	51.5	54.8	55.6	55.9	62.4	64.5	64.1	62.9
30%	60.1	55.7	52.4	50.0	50.9	54.3	55.3	55.5	61.6	64.0	63.3	61.9
40%	58.9	55.2	51.7	49.5	50.5	53.6	54.6	55.2	60.0	63.6	62.9	61.5
50%	58.3	54.7	51.3	49.1	50.2	53.1	53.9	54.8	58.4	63.0	62.5	61.0
60%	57.6	54.4	51.0	49.0	49.8	52.8	53.3	54.4	56.3	62.5	62.2	60.6
70%	57.0	54.1	50.7	48.4	49.5	52.2	52.6	54.0	55.4	61.9	61.8	60.1
80%	56.5	53.4	50.3	48.0	49.1	51.5	51.9	53.7	54.8	61.3	61.4	59.6
90%	55.7	52.7	49.9	47.4	48.5	50.5	51.0	52.8	53.5	60.1	60.3	58.2
Long Term												
Full Simulation Period[b]	58.8	55.2	51.5	49.2	50.3	53.1	53.9	54.9	58.5	62.8	62.7	61.2
Water Year Types[c]												
Wet (32%)	55.0	52.1	49.0	48.6	49.3	51.2	51.7	53.5	54.5	60.1	60.3	58.4
Above Normal (16%)	59.3	55.5	51.9	49.7	50.5	53.3	53.4	54.4	57.7	62.4	62.2	60.7
Below Normal (13%)	57.9	54.4	50.9	49.1	50.0	53.3	54.1	54.8	58.9	63.3	62.7	61.1
Dry (24%)	58.8	55.1	51.5	49.3	50.6	54.1	55.3	55.6	61.3	63.9	63.4	62.2
Critical (15%)	62.6	58.2	53.1	50.3	51.8	55.0	56.5	57.6	63.3	66.8	67.6	66.5

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61.3	57.6	53.2	51.0	52.9	55.8	55.5	57.8	63.9	65.8	64.8	63.5
20%	60.0	56.6	52.7	50.7	51.9	55.2	54.8	56.7	63.2	64.8	63.8	62.6
30%	59.2	55.4	52.2	50.2	51.3	54.6	54.3	56.2	62.6	64.2	63.1	62.1
40%	58.3	54.8	51.6	49.5	50.9	54.1	53.8	55.6	62.1	63.9	62.8	61.4
50%	57.9	54.5	51.1	49.2	50.5	53.7	53.2	55.2	61.7	63.5	62.4	61.1
60%	57.4	54.1	50.9	48.8	50.1	53.4	52.8	54.7	61.3	63.3	62.1	60.8
70%	56.8	53.9	50.5	48.5	49.7	52.6	52.5	54.4	60.8	63.1	61.9	60.3
80%	56.4	53.5	50.2	48.2	49.4	51.6	51.8	53.8	60.3	62.7	61.6	60.0
90%	55.4	52.9	49.9	47.5	48.5	50.5	51.1	53.1	59.0	61.4	60.4	55.8
Long Term												
Full Simulation Period[b]	58.3	55.0	51.4	49.3	50.6	53.4	53.4	55.3	61.3	63.3	62.4	60.8
Water Year Types[c]												
Wet (32%)	54.7	52.0	48.9	48.7	49.6	51.5	51.8	53.7	58.8	60.6	59.8	58.2
Above Normal (16%)	58.9	55.3	51.7	49.8	50.7	53.4	53.1	55.0	61.7	63.5	62.2	60.8
Below Normal (13%)	57.5	54.1	50.7	49.0	50.1	54.0	53.5	55.1	61.7	63.7	62.6	61.2
Dry (24%)	58.4	54.9	51.4	49.3	51.0	54.6	54.3	56.3	62.5	64.2	63.1	61.8
Critical (15%)	61.3	57.5	52.8	50.2	52.3	55.2	55.6	57.9	64.0	67.0	66.5	64.9

Alternative 3 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.4**	**-1.4**	-0.2	-0.3	**0.8**	0.5	**-0.7**	**0.9**	0.4	**0.5**	-0.5	**-0.7**
20%	**-0.8**	-0.5	0.0	-0.1	0.4	0.4	**-0.8**	**0.8**	**0.7**	0.3	-0.3	-0.3
30%	**-0.9**	-0.3	-0.2	0.2	0.4	0.3	**-0.9**	**0.7**	**1.0**	0.2	-0.2	0.2
40%	**-0.7**	-0.4	-0.1	0.0	0.4	**0.5**	**-0.8**	0.4	**2.1**	0.3	-0.1	-0.1
50%	-0.4	-0.2	-0.2	0.0	0.3	**0.6**	**-0.6**	0.4	**3.3**	**0.5**	-0.1	0.1
60%	-0.2	-0.3	-0.1	-0.1	0.3	**0.6**	**-0.5**	0.3	**5.0**	**0.7**	-0.1	0.2
70%	-0.1	-0.2	-0.2	0.1	0.2	0.4	-0.1	0.4	**5.4**	**1.2**	0.1	0.2
80%	-0.1	0.1	-0.1	0.2	0.3	0.1	-0.1	0.1	**5.5**	**1.4**	0.2	0.4
90%	-0.3	0.3	-0.1	0.1	0.0	0.0	0.1	0.3	**5.5**	**1.3**	0.1	**-2.4**
Long Term												
Full Simulation Period[b]	-0.5	-0.3	-0.1	0.1	0.3	0.4	**-0.5**	0.4	**2.8**	0.5	-0.4	-0.4
Water Year Types[c]												
Wet (32%)	-0.3	-0.1	-0.1	0.1	0.3	0.3	0.0	0.2	**4.3**	0.4	**-0.5**	-0.3
Above Normal (16%)	-0.4	-0.3	-0.2	0.2	0.2	0.1	-0.4	**0.5**	**4.0**	**1.1**	0.0	0.1
Below Normal (13%)	-0.4	-0.3	-0.2	0.0	0.1	**0.7**	**-0.6**	0.4	**2.9**	0.4	-0.1	0.1
Dry (24%)	-0.4	-0.2	-0.1	0.0	0.4	**0.5**	**-1.0**	**0.7**	**1.2**	0.3	-0.3	-0.4
Critical (15%)	**-1.2**	**-0.7**	-0.3	-0.1	**0.5**	0.2	**-0.9**	0.3	**0.7**	0.2	**-1.1**	**-1.6**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.8.4 Stanislaus River at Orange Blossom Bridge, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	62.7	58.9	53.4	51.2	52.1	55.3	56.2	56.9	63.5	65.3	65.3	64.1
20%	60.8	57.0	52.7	50.8	51.5	54.8	55.6	55.9	62.4	64.5	64.1	62.9
30%	60.1	55.7	52.4	50.0	50.9	54.3	55.3	55.5	61.6	64.0	63.3	61.9
40%	58.9	55.2	51.7	49.5	50.5	53.6	54.6	55.2	60.0	63.6	62.9	61.5
50%	58.3	54.7	51.3	49.1	50.2	53.1	53.9	54.8	58.4	63.0	62.5	61.0
60%	57.6	54.4	51.0	49.0	49.8	52.8	53.3	54.4	56.3	62.5	62.2	60.6
70%	57.0	54.1	50.7	48.4	49.5	52.2	52.6	54.0	55.4	61.9	61.8	60.1
80%	56.5	53.4	50.3	48.0	49.1	51.5	51.9	53.7	54.8	61.3	61.4	59.6
90%	55.7	52.7	49.9	47.4	48.5	50.5	51.0	52.8	53.5	60.1	60.3	58.2
Long Term												
Full Simulation Period[b]	58.8	55.2	51.5	49.2	50.3	53.1	53.9	54.9	58.5	62.8	62.7	61.2
Water Year Types[c]												
Wet (32%)	55.0	52.1	49.0	48.6	49.3	51.2	51.7	53.5	54.5	60.1	60.3	58.4
Above Normal (16%)	59.3	55.5	51.9	49.7	50.5	53.3	53.4	54.4	57.7	62.4	62.2	60.7
Below Normal (13%)	57.9	54.4	50.9	49.1	50.0	53.3	54.1	54.8	58.9	63.3	62.7	61.1
Dry (24%)	58.8	55.1	51.5	49.3	50.6	54.1	55.3	55.6	61.3	63.9	63.4	62.2
Critical (15%)	62.6	58.2	53.1	50.3	51.8	55.0	56.5	57.6	63.3	66.8	67.6	66.5

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.0	59.6	53.4	51.3	52.5	55.7	54.6	56.3	64.0	66.4	67.0	67.3
20%	60.0	58.0	52.6	50.6	51.7	55.0	54.1	55.8	62.7	65.1	65.0	64.2
30%	58.1	56.5	52.2	49.9	51.2	54.5	53.7	55.4	61.8	64.3	63.7	62.7
40%	57.1	55.3	51.6	49.6	50.7	54.0	53.5	55.0	61.0	63.7	63.0	61.8
50%	56.5	55.0	51.2	49.1	50.3	53.6	53.0	54.7	59.2	63.2	62.7	61.3
60%	55.9	54.6	50.8	48.9	50.1	53.3	52.6	54.3	57.0	62.7	62.3	60.9
70%	55.4	54.2	50.6	48.4	49.6	52.0	52.2	53.7	55.9	62.2	61.9	60.6
80%	55.0	53.7	50.3	47.9	49.2	51.0	51.8	53.4	55.3	61.6	61.5	60.0
90%	54.0	53.1	49.8	47.2	48.3	49.6	50.7	52.6	54.4	58.9	60.1	58.1
Long Term												
Full Simulation Period[b]	57.8	55.7	51.5	49.2	50.4	53.1	52.9	54.8	59.1	63.3	63.2	61.9
Water Year Types[c]												
Wet (32%)	54.2	52.6	49.0	48.6	49.4	50.8	51.5	53.1	55.2	60.5	60.5	58.8
Above Normal (16%)	57.9	56.0	51.8	49.7	50.8	53.6	52.6	54.2	57.9	62.6	62.3	61.0
Below Normal (13%)	57.2	54.7	50.9	49.0	50.3	53.8	53.2	54.6	59.9	63.7	63.1	62.0
Dry (24%)	57.5	55.6	51.4	49.3	50.8	54.5	53.7	55.4	61.6	64.3	64.2	63.5
Critical (15%)	61.7	58.3	52.6	50.0	51.6	54.7	54.9	58.0	64.2	68.0	68.4	67.3

Alternative 5 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.3**	**0.7**	0.0	0.1	0.4	0.4	**-1.6**	**-0.6**	**0.5**	**1.1**	**1.7**	**3.1**
20%	**-0.8**	**0.9**	0.0	-0.2	0.2	0.2	**-1.5**	-0.1	0.3	**0.6**	**0.8**	**1.3**
30%	**-2.0**	**0.8**	-0.2	0.0	0.3	0.3	**-1.6**	-0.1	0.2	0.3	0.4	**0.8**
40%	**-1.8**	0.1	-0.1	0.0	0.2	0.4	**-1.1**	-0.2	**1.0**	0.1	0.1	0.3
50%	**-1.8**	0.3	-0.1	-0.1	0.1	**0.5**	**-0.8**	-0.1	**0.8**	0.2	0.2	0.3
60%	**-1.7**	0.2	-0.2	-0.1	0.2	0.5	**-0.6**	0.0	**0.7**	0.2	0.1	0.3
70%	**-1.5**	0.2	-0.1	0.1	0.2	-0.2	-0.3	-0.4	**0.5**	0.3	0.1	0.4
80%	**-1.5**	0.3	0.0	-0.1	0.2	**-0.6**	-0.1	-0.3	**0.6**	0.3	0.1	0.3
90%	**-1.7**	0.4	-0.1	-0.2	-0.2	**-0.9**	-0.3	-0.2	**0.9**	**-1.2**	-0.3	-0.2
Long Term												
Full Simulation Period[b]	**-1.0**	0.4	-0.1	0.0	0.1	0.0	**-0.9**	-0.1	**0.6**	0.4	0.5	**0.7**
Water Year Types[c]												
Wet (32%)	**-0.8**	**0.5**	0.1	0.0	0.1	-0.4	-0.2	-0.4	**0.8**	0.3	0.2	0.3
Above Normal (16%)	**-1.4**	0.5	0.0	0.1	0.2	0.3	**-0.8**	-0.2	0.2	0.2	0.2	0.4
Below Normal (13%)	**-0.7**	0.4	0.0	0.0	0.3	0.5	**-0.9**	-0.2	**1.0**	0.4	0.5	**0.8**
Dry (24%)	**-1.3**	0.5	0.0	0.0	0.2	0.4	**-1.6**	-0.1	0.2	0.4	**0.8**	**1.3**
Critical (15%)	**-0.8**	0.1	-0.5	-0.3	-0.2	-0.2	**-1.5**	0.5	**0.9**	**1.1**	**0.8**	**0.8**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.9 Stanislaus River at Mouth Temperature

Table 5C.3.3.9.1 Stanislaus River at Mouth, Monthly Temperature

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.3	58.6	51.9	51.4	55.1	60.5	62.1	65.5	72.3	76.5	75.2	71.8
20%	62.9	57.4	51.6	50.8	54.3	59.7	61.1	64.6	71.7	75.5	74.4	70.7
30%	61.7	56.8	51.0	50.2	53.8	59.1	60.3	63.6	70.8	74.9	73.8	70.4
40%	60.6	56.5	50.7	49.7	53.2	58.7	58.8	62.1	70.2	74.3	73.4	69.8
50%	60.1	55.7	50.3	49.4	52.9	57.9	57.9	61.0	67.8	73.8	73.0	69.5
60%	59.6	55.2	49.9	49.0	52.6	57.0	57.1	60.7	65.3	73.1	72.6	69.0
70%	59.0	55.0	49.7	48.8	52.1	55.7	56.2	59.8	63.8	72.9	72.4	68.6
80%	58.7	54.7	49.3	48.5	51.5	53.6	55.7	58.7	62.7	71.7	71.9	68.1
90%	58.2	54.2	49.0	47.9	50.6	52.1	54.8	58.0	61.7	69.3	70.7	66.9
Long Term												
Full Simulation Period[b]	60.8	56.0	50.4	49.6	52.9	57.1	58.3	61.6	67.3	73.1	72.6	69.0
Water Year Types[c]												
Wet (32%)	57.1	53.3	48.5	49.4	51.8	53.6	55.5	58.8	62.9	70.1	70.2	66.6
Above Normal (16%)	61.2	56.5	51.0	50.5	53.4	57.9	57.9	61.6	66.7	73.1	72.9	69.0
Below Normal (13%)	60.1	55.2	49.8	49.2	52.8	58.0	58.5	61.0	68.6	74.3	73.1	69.5
Dry (24%)	60.7	55.8	50.1	49.2	53.2	58.9	59.8	63.3	70.3	74.7	73.4	70.0
Critical (15%)	63.9	57.8	50.7	49.9	54.3	59.7	62.0	65.5	71.4	76.1	75.3	72.0

Alternative 1

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.5	58.4	52.0	51.3	54.5	60.3	63.6	64.1	72.1	76.2	75.1	71.5
20%	65.2	57.8	51.6	50.8	54.0	59.5	63.0	63.5	71.5	75.3	74.3	70.6
30%	64.4	56.9	51.1	50.2	53.6	58.7	62.2	62.7	70.4	74.8	73.8	70.2
40%	63.9	56.3	50.9	49.7	53.0	58.2	60.8	61.5	69.6	74.2	73.4	69.7
50%	62.9	55.9	50.5	49.3	52.5	57.3	60.0	61.2	67.2	73.6	73.0	69.4
60%	62.3	55.3	50.1	49.1	52.2	56.6	58.2	60.8	65.1	73.0	72.6	68.8
70%	61.8	55.1	49.7	48.8	51.9	56.3	56.8	59.8	62.3	72.7	72.4	68.5
80%	61.2	54.6	49.5	48.4	51.4	55.5	56.1	59.1	61.0	71.5	72.0	68.2
90%	60.8	54.2	49.1	47.9	50.4	54.2	55.3	58.5	59.1	70.4	71.3	67.1
Long Term												
Full Simulation Period[b]	63.1	56.1	50.5	49.5	52.7	57.3	59.6	61.3	66.3	73.0	72.7	68.9
Water Year Types[c]												
Wet (32%)	59.3	53.2	48.6	49.3	51.6	54.7	55.9	59.2	60.6	70.1	70.7	66.4
Above Normal (16%)	63.8	56.5	51.1	50.4	53.1	57.9	59.2	61.2	66.1	73.0	72.9	68.9
Below Normal (13%)	62.3	55.1	49.9	49.1	52.4	57.7	60.4	60.8	67.8	74.1	73.1	69.3
Dry (24%)	63.4	56.0	50.2	49.3	53.0	58.4	61.8	62.5	70.1	74.6	73.4	70.0
Critical (15%)	65.8	58.2	51.0	49.9	54.2	59.7	63.5	64.3	71.1	75.9	75.2	71.9

Alternative 1 minus No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**2.2**	-0.2	0.1	-0.1	**-0.5**	-0.2	**1.6**	**-1.4**	-0.2	-0.3	-0.1	-0.4
20%	**2.3**	0.3	0.1	0.0	-0.2	-0.2	**1.9**	**-1.1**	-0.2	-0.1	-0.1	-0.1
30%	**2.6**	0.1	0.1	0.0	-0.2	-0.4	**1.9**	**-0.9**	-0.3	-0.1	0.0	-0.2
40%	**3.2**	-0.2	0.1	0.0	-0.2	-0.5	**2.0**	**-0.7**	**-0.6**	-0.1	0.0	-0.2
50%	**2.8**	0.2	0.2	-0.1	-0.4	**-0.6**	**2.1**	0.2	**-0.6**	-0.2	0.0	-0.1
60%	**2.6**	0.1	0.2	0.0	-0.4	-0.3	**1.1**	0.1	-0.2	-0.1	0.0	-0.2
70%	**2.7**	0.1	0.0	0.0	-0.2	**0.6**	**0.6**	0.0	**-1.5**	-0.2	0.0	-0.2
80%	**2.6**	0.0	0.2	0.0	-0.1	**1.9**	0.4	0.4	**-1.6**	-0.2	0.1	0.0
90%	**2.5**	0.0	0.1	0.1	-0.2	**2.1**	**0.5**	**0.5**	**-2.6**	**1.1**	**0.6**	0.2
Long Term												
Full Simulation Period[b]	**2.4**	0.1	0.1	0.0	-0.2	0.2	**1.3**	-0.4	**-1.0**	-0.1	0.1	-0.1
Water Year Types[c]												
Wet (32%)	**2.2**	-0.1	0.0	-0.1	-0.2	**1.1**	0.4	0.4	**-2.4**	0.0	0.5	-0.1
Above Normal (16%)	**2.6**	0.0	0.1	-0.1	-0.3	0.0	**1.3**	-0.5	**-0.6**	-0.1	0.0	-0.1
Below Normal (13%)	**2.2**	-0.2	0.1	-0.1	-0.4	-0.4	**1.9**	-0.2	**-0.7**	-0.2	0.0	-0.2
Dry (24%)	**2.7**	0.2	0.2	0.0	-0.3	-0.4	**2.0**	**-0.8**	-0.2	0.0	0.0	-0.1
Critical (15%)	**1.8**	0.4	0.3	0.1	0.0	0.0	**1.5**	**-1.2**	-0.3	-0.2	-0.1	-0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.9.2 Stanislaus River at Mouth, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.5	58.4	52.0	51.3	54.5	60.3	63.6	64.1	72.1	76.2	75.1	71.5
20%	65.2	57.8	51.6	50.8	54.0	59.5	63.0	63.5	71.5	75.3	74.3	70.6
30%	64.4	56.9	51.1	50.2	53.6	58.7	62.2	62.7	70.4	74.8	73.8	70.2
40%	63.9	56.3	50.9	49.7	53.0	58.2	60.8	61.5	69.6	74.2	73.4	69.7
50%	62.9	55.9	50.5	49.3	52.5	57.3	60.0	61.2	67.2	73.6	73.0	69.4
60%	62.3	55.3	50.1	49.1	52.2	56.6	58.2	60.8	65.1	73.0	72.6	68.8
70%	61.8	55.1	49.7	48.8	51.9	56.3	56.8	59.8	62.3	72.7	72.4	68.5
80%	61.2	54.6	49.5	48.4	51.4	55.5	56.1	59.1	61.0	71.5	72.0	68.2
90%	60.8	54.2	49.1	47.9	50.4	54.2	55.3	58.5	59.1	70.4	71.3	67.1
Long Term												
Full Simulation Period[b]	63.1	56.1	50.5	49.5	52.7	57.3	59.6	61.3	66.3	73.0	72.7	68.9
Water Year Types[c]												
Wet (32%)	59.3	53.2	48.6	49.3	51.6	54.7	55.9	59.2	60.6	70.1	70.7	66.4
Above Normal (16%)	63.8	56.5	51.1	50.4	53.1	57.9	59.2	61.2	66.1	73.0	72.9	68.9
Below Normal (13%)	62.3	55.1	49.9	49.1	52.4	57.7	60.4	60.8	67.8	74.1	73.1	69.3
Dry (24%)	63.4	56.0	50.2	49.3	53.0	58.4	61.8	62.5	70.1	74.6	73.4	70.0
Critical (15%)	65.8	58.2	51.0	49.9	54.2	59.7	63.5	64.3	71.1	75.9	75.2	71.9

No Action Alternative

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64.3	58.6	51.9	51.4	55.1	60.5	62.1	65.5	72.3	76.5	75.2	71.8
20%	62.9	57.4	51.6	50.8	54.3	59.7	61.1	64.6	71.7	75.5	74.4	70.7
30%	61.7	56.8	51.0	50.2	53.8	59.1	60.3	63.6	70.8	74.9	73.8	70.4
40%	60.6	56.5	50.7	49.7	53.2	58.7	58.8	62.1	70.2	74.3	73.4	69.8
50%	60.1	55.7	50.3	49.4	52.9	57.9	57.9	61.0	67.8	73.8	73.0	69.5
60%	59.6	55.2	49.9	49.0	52.6	57.0	57.1	60.7	65.3	73.1	72.6	69.0
70%	59.0	55.0	49.7	48.8	52.1	55.7	56.2	59.8	63.8	72.9	72.4	68.6
80%	58.7	54.7	49.3	48.5	51.5	53.6	55.7	58.7	62.7	71.7	71.9	68.1
90%	58.2	54.2	49.0	47.9	50.6	52.1	54.8	58.0	61.7	69.3	70.7	66.9
Long Term												
Full Simulation Period[b]	60.8	56.0	50.4	49.6	52.9	57.1	58.3	61.6	67.3	73.1	72.6	69.0
Water Year Types[c]												
Wet (32%)	57.1	53.3	48.5	49.4	51.8	53.6	55.5	58.8	62.9	70.1	70.2	66.6
Above Normal (16%)	61.2	56.5	51.0	50.5	53.4	57.9	57.9	61.6	66.7	73.1	72.9	69.0
Below Normal (13%)	60.1	55.2	49.8	49.2	52.8	58.0	58.5	61.0	68.6	74.3	73.1	69.5
Dry (24%)	60.7	55.8	50.1	49.2	53.2	58.9	59.8	63.3	70.3	74.7	73.4	70.0
Critical (15%)	63.9	57.8	50.7	49.9	54.3	59.7	62.0	65.5	71.4	76.1	75.3	72.0

No Action Alternative minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-2.2**	0.2	-0.1	0.1	**0.5**	0.2	**-1.6**	**1.4**	0.2	0.3	0.1	0.4
20%	**-2.3**	-0.3	-0.1	0.0	0.2	0.2	**-1.9**	**1.1**	0.2	0.1	0.1	0.1
30%	**-2.6**	-0.1	-0.1	0.0	0.2	0.4	**-1.9**	**0.9**	0.3	0.1	0.0	0.2
40%	**-3.2**	0.2	-0.1	0.0	0.2	0.5	**-2.0**	**0.7**	**0.6**	0.1	0.0	0.2
50%	**-2.8**	-0.2	-0.2	0.1	0.4	**0.6**	**-2.1**	-0.2	**0.6**	0.2	0.0	0.1
60%	**-2.6**	-0.1	-0.2	0.0	0.4	0.3	**-1.1**	-0.1	0.2	0.1	0.0	0.2
70%	**-2.7**	-0.1	0.0	0.0	0.2	**-0.6**	**-0.6**	0.0	**1.5**	0.2	0.0	0.2
80%	**-2.6**	0.0	-0.2	0.0	0.1	**-1.9**	-0.4	-0.4	**1.6**	0.2	-0.1	0.0
90%	**-2.5**	0.0	-0.1	-0.1	0.2	**-2.1**	**-0.5**	**-0.5**	**2.6**	**-1.1**	**-0.6**	-0.2
Long Term												
Full Simulation Period[b]	**-2.4**	-0.1	-0.1	0.0	0.2	-0.2	**-1.3**	0.4	**1.0**	0.1	-0.1	0.1
Water Year Types[c]												
Wet (32%)	**-2.2**	0.1	0.0	0.1	0.2	**-1.1**	-0.4	-0.4	**2.4**	0.0	-0.5	0.1
Above Normal (16%)	**-2.6**	0.0	-0.1	0.1	0.3	0.0	**-1.3**	0.5	**0.6**	0.1	0.0	0.1
Below Normal (13%)	**-2.2**	0.2	-0.1	0.1	0.4	0.4	**-1.9**	0.2	**0.7**	0.2	0.0	0.2
Dry (24%)	**-2.7**	-0.2	-0.2	0.0	0.3	0.4	**-2.0**	**0.8**	0.2	0.0	0.0	0.1
Critical (15%)	**-1.8**	-0.4	-0.3	-0.1	0.0	0.0	**-1.5**	**1.2**	0.3	0.2	0.1	0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.9.3 Stanislaus River at Mouth, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.5	58.4	52.0	51.3	54.5	60.3	63.6	64.1	72.1	76.2	75.1	71.5
20%	65.2	57.8	51.6	50.8	54.0	59.5	63.0	63.5	71.5	75.3	74.3	70.6
30%	64.4	56.9	51.1	50.2	53.6	58.7	62.2	62.7	70.4	74.8	73.8	70.2
40%	63.9	56.3	50.9	49.7	53.0	58.2	60.8	61.5	69.6	74.2	73.4	69.7
50%	62.9	55.9	50.5	49.3	52.5	57.3	60.0	61.2	67.2	73.6	73.0	69.4
60%	62.3	55.3	50.1	49.1	52.2	56.6	58.2	60.8	65.1	73.0	72.6	68.8
70%	61.8	55.1	49.7	48.8	51.9	56.3	56.8	59.8	62.3	72.7	72.4	68.5
80%	61.2	54.6	49.5	48.4	51.4	55.5	56.1	59.1	61.0	71.5	72.0	68.2
90%	60.8	54.2	49.1	47.9	50.4	54.2	55.3	58.5	59.1	70.4	71.3	67.1
Long Term												
Full Simulation Period[b]	63.1	56.1	50.5	49.5	52.7	57.3	59.6	61.3	66.3	73.0	72.7	68.9
Water Year Types[c]												
Wet (32%)	59.3	53.2	48.6	49.3	51.6	54.7	55.9	59.2	60.6	70.1	70.7	66.4
Above Normal (16%)	63.8	56.5	51.1	50.4	53.1	57.9	59.2	61.2	66.1	73.0	72.9	68.9
Below Normal (13%)	62.3	55.1	49.9	49.1	52.4	57.7	60.4	60.8	67.8	74.1	73.1	69.3
Dry (24%)	63.4	56.0	50.2	49.3	53.0	58.4	61.8	62.5	70.1	74.6	73.4	70.0
Critical (15%)	65.8	58.2	51.0	49.9	54.2	59.7	63.5	64.3	71.1	75.9	75.2	71.9

Alternative 3

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.7	58.3	51.9	51.6	55.2	60.9	62.6	65.8	73.2	76.9	75.3	71.7
20%	65.2	57.7	51.5	50.7	54.7	59.7	61.6	64.6	72.4	76.0	74.3	70.7
30%	64.0	56.7	51.0	50.2	53.8	59.2	60.4	63.7	72.1	75.5	73.8	70.2
40%	63.2	56.3	50.8	49.7	53.2	58.7	59.7	62.9	71.7	75.0	73.4	69.9
50%	62.9	55.6	50.4	49.4	52.8	58.2	58.3	62.5	71.1	74.7	73.1	69.4
60%	62.4	55.3	50.0	49.0	52.3	57.3	57.3	61.7	70.3	74.2	72.5	69.0
70%	61.7	55.0	49.6	48.8	52.0	56.7	56.6	60.9	69.3	73.8	72.4	68.7
80%	61.3	54.8	49.4	48.6	51.1	55.0	56.1	60.2	68.5	73.5	72.0	68.1
90%	60.6	54.3	49.0	47.9	50.3	53.5	55.4	59.0	67.4	73.0	71.3	62.2
Long Term												
Full Simulation Period[b]	62.9	56.0	50.4	49.6	52.8	57.5	58.7	62.5	69.9	73.7	72.4	68.6
Water Year Types[c]												
Wet (32%)	59.1	53.3	48.6	49.4	51.4	54.9	55.8	60.0	66.7	70.5	69.7	65.8
Above Normal (16%)	63.8	56.5	51.0	50.5	53.1	57.7	58.3	62.4	70.9	74.8	73.1	69.1
Below Normal (13%)	62.2	55.1	49.7	49.1	52.4	58.3	59.2	62.0	70.7	74.8	73.1	69.5
Dry (24%)	63.2	55.9	50.2	49.2	53.5	59.0	60.2	63.9	71.6	75.0	73.4	69.9
Critical (15%)	65.2	57.8	50.8	49.8	54.7	60.0	62.3	65.7	72.3	76.4	75.1	71.4

Alternative 3 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-0.8**	-0.1	0.0	0.3	**0.7**	**0.5**	**-1.0**	**1.7**	**1.1**	**0.7**	0.2	0.3
20%	-0.1	-0.1	-0.1	0.0	**0.6**	0.2	**-1.5**	**1.1**	**0.9**	**0.6**	0.0	0.1
30%	-0.3	-0.2	-0.1	0.0	0.3	**0.5**	**-1.7**	**1.0**	**1.6**	**0.7**	0.0	0.0
40%	**-0.6**	0.0	0.0	0.0	0.2	**0.5**	**-1.1**	**1.5**	**2.1**	**0.8**	0.0	0.3
50%	0.0	-0.2	-0.1	0.1	0.3	**0.9**	**-1.7**	**1.3**	**3.9**	**1.1**	0.1	0.0
60%	0.1	0.0	-0.1	-0.1	0.1	**0.7**	**-1.0**	**0.9**	**5.2**	**1.2**	-0.1	0.2
70%	0.0	-0.1	-0.1	0.0	0.0	0.4	-0.2	**1.1**	**7.0**	**1.1**	0.0	0.2
80%	0.1	0.1	-0.1	0.1	-0.4	-0.4	0.0	**1.1**	**7.5**	**2.0**	0.0	-0.1
90%	-0.2	0.1	-0.1	0.0	-0.1	**-0.6**	0.1	**0.6**	**8.3**	**2.6**	0.1	**-4.8**
Long Term												
Full Simulation Period[b]	-0.2	-0.1	-0.1	0.0	0.1	0.3	**-0.9**	**1.2**	**3.6**	**0.7**	-0.3	-0.2
Water Year Types[c]												
Wet (32%)	-0.2	0.0	0.0	0.1	-0.1	0.2	-0.1	**0.8**	**6.1**	0.4	**-1.1**	**-0.6**
Above Normal (16%)	0.0	0.0	-0.1	0.1	0.0	-0.1	**-0.9**	**1.2**	**4.9**	**1.8**	0.2	0.2
Below Normal (13%)	-0.2	0.0	-0.2	0.0	0.0	**0.6**	**-1.2**	**1.2**	**2.8**	**0.7**	0.0	0.2
Dry (24%)	-0.2	0.0	0.0	0.0	**0.5**	**0.5**	**-1.6**	**1.4**	**1.5**	0.4	0.0	-0.1
Critical (15%)	**-0.6**	-0.4	-0.2	-0.1	0.5	0.3	**-1.2**	**1.4**	**1.2**	**0.5**	-0.1	**-0.5**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.9.4 Stanislaus River at Mouth, Monthly Temperature

Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	66.5	58.4	52.0	51.3	54.5	60.3	63.6	64.1	72.1	76.2	75.1	71.5
20%	65.2	57.8	51.6	50.8	54.0	59.5	63.0	63.5	71.5	75.3	74.3	70.6
30%	64.4	56.9	51.1	50.2	53.6	58.7	62.2	62.7	70.4	74.8	73.8	70.2
40%	63.9	56.3	50.9	49.7	53.0	58.2	60.8	61.5	69.6	74.2	73.4	69.7
50%	62.9	55.9	50.5	49.3	52.5	57.3	60.0	61.2	67.2	73.6	73.0	69.4
60%	62.3	55.3	50.1	49.1	52.2	56.6	58.2	60.8	65.1	73.0	72.6	68.8
70%	61.8	55.1	49.7	48.8	51.9	56.3	56.8	59.8	62.3	72.7	72.4	68.5
80%	61.2	54.6	49.5	48.4	51.4	55.5	56.1	59.1	61.0	71.5	72.0	68.2
90%	60.8	54.2	49.1	47.9	50.4	54.2	55.3	58.5	59.1	70.4	71.3	67.1
Long Term												
Full Simulation Period[b]	63.1	56.1	50.5	49.5	52.7	57.3	59.6	61.3	66.3	73.0	72.7	68.9
Water Year Types[c]												
Wet (32%)	59.3	53.2	48.6	49.3	51.6	54.7	55.9	59.2	60.6	70.1	70.7	66.4
Above Normal (16%)	63.8	56.5	51.1	50.4	53.1	57.9	59.2	61.2	66.1	73.0	72.9	68.9
Below Normal (13%)	62.3	55.1	49.9	49.1	52.4	57.7	60.4	60.8	67.8	74.1	73.1	69.3
Dry (24%)	63.4	56.0	50.2	49.3	53.0	58.4	61.8	62.5	70.1	74.6	73.4	70.0
Critical (15%)	65.8	58.2	51.0	49.9	54.2	59.7	63.5	64.3	71.1	75.9	75.2	71.9

Alternative 5

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	65.4	58.6	52.2	51.4	55.1	60.5	60.1	64.4	72.3	76.3	75.4	72.0
20%	63.3	57.7	51.5	50.8	54.4	59.7	59.1	62.6	71.8	75.6	74.6	71.0
30%	62.0	57.0	51.0	50.3	53.7	59.2	58.7	61.5	70.9	75.0	73.9	70.5
40%	61.1	56.7	50.5	49.7	53.2	58.7	58.3	60.8	70.1	74.3	73.5	70.0
50%	60.4	56.0	50.3	49.3	52.9	57.9	57.7	60.1	67.6	73.9	73.1	69.7
60%	59.7	55.4	50.0	49.0	52.6	57.1	57.3	59.5	65.2	73.1	72.6	69.2
70%	59.2	55.1	49.7	48.9	52.0	55.9	56.3	59.0	64.0	72.9	72.4	68.7
80%	58.7	54.8	49.3	48.5	51.5	53.8	55.7	58.3	62.7	72.0	72.0	68.2
90%	58.2	54.2	48.9	47.9	50.6	52.1	55.0	57.9	61.5	69.4	71.3	66.9
Long Term												
Full Simulation Period[b]	61.1	56.2	50.4	49.6	52.9	57.1	57.6	60.6	67.4	73.4	72.9	69.2
Water Year Types[c]												
Wet (32%)	57.5	53.4	48.6	49.4	51.8	53.8	55.6	58.4	63.1	70.8	71.0	66.8
Above Normal (16%)	61.5	56.7	51.1	50.5	53.5	57.9	57.5	60.4	66.5	73.1	73.0	69.1
Below Normal (13%)	60.6	55.3	49.8	49.2	52.8	58.0	58.1	60.2	68.7	74.4	73.2	69.7
Dry (24%)	61.0	56.1	50.1	49.3	53.3	58.9	58.7	62.0	70.2	74.7	73.6	70.4
Critical (15%)	64.1	58.1	50.7	49.8	54.3	59.7	60.0	64.0	71.6	76.4	75.6	72.2

Alternative 5 minus Second Basis of Comparison

	Monthly Temperature (DEG-F)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-1.1**	0.3	0.2	0.1	**0.6**	0.2	**-3.5**	0.3	0.3	0.1	0.3	**0.6**
20%	**-1.9**	0.0	-0.1	0.0	0.3	0.2	**-3.9**	**-0.9**	0.4	0.2	0.3	0.4
30%	**-2.3**	0.1	-0.1	0.1	0.1	**0.5**	**-3.4**	**-1.1**	0.4	0.3	0.1	0.2
40%	**-2.8**	0.4	-0.4	0.0	0.2	0.5	**-2.5**	**-0.7**	0.5	0.1	0.1	0.3
50%	**-2.5**	0.1	-0.1	0.0	0.4	**0.6**	**-2.3**	**-1.1**	0.4	0.3	0.1	0.3
60%	**-2.5**	0.1	-0.1	0.0	0.4	0.5	**-0.9**	**-1.3**	0.0	0.1	0.0	0.4
70%	**-2.6**	0.0	0.0	0.1	0.1	-0.4	**-0.5**	**-0.8**	**1.7**	0.2	0.0	0.3
80%	**-2.5**	0.2	-0.2	0.1	0.1	**-1.7**	-0.4	**-0.8**	**1.7**	**0.5**	0.0	0.0
90%	**-2.5**	0.0	-0.2	0.0	0.2	**-2.1**	-0.3	**-0.6**	**2.4**	**-1.0**	0.0	-0.2
Long Term												
Full Simulation Period[b]	**-2.0**	0.1	-0.1	0.0	0.3	-0.1	**-1.9**	**-0.6**	**1.1**	0.4	0.2	0.3
Water Year Types[c]												
Wet (32%)	**-1.8**	0.2	0.0	0.1	0.2	**-0.9**	-0.3	**-0.8**	**2.5**	**0.7**	0.3	0.4
Above Normal (16%)	**-2.3**	0.1	-0.1	0.1	0.3	0.0	**-1.6**	**-0.8**	0.5	0.1	0.0	0.2
Below Normal (13%)	**-1.8**	0.2	-0.1	0.1	0.4	0.4	**-2.3**	**-0.6**	**0.9**	0.3	0.1	0.3
Dry (24%)	**-2.4**	0.1	-0.1	0.0	0.4	0.5	**-3.1**	**-0.5**	0.1	0.1	0.2	0.4
Critical (15%)	**-1.6**	0.0	-0.3	-0.1	0.0	0.0	**-3.5**	-0.3	0.4	**0.5**	0.4	0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on an 81-year simulation period.

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.10 San Joaquin River at Vernalis Flow

Table 5C.3.3.10.1 San Joaquin River at Vernalis, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,498	2,953	4,804	11,135	14,596	15,471	14,974	14,174	9,351	5,890	2,796	3,060
20%	3,161	2,777	2,857	4,812	10,143	10,197	10,637	8,318	4,690	2,628	2,589	2,654
30%	2,980	2,527	2,401	3,610	6,118	8,459	8,616	5,534	3,364	1,985	1,904	2,490
40%	2,796	2,395	2,215	2,629	4,232	5,570	7,564	4,609	2,947	1,735	1,666	2,125
50%	2,601	2,219	2,101	2,402	3,420	3,847	6,017	3,925	2,246	1,487	1,488	1,930
60%	2,401	2,169	2,046	2,293	2,683	3,459	4,832	3,062	1,859	1,366	1,403	1,835
70%	2,247	2,059	1,979	2,114	2,305	2,906	3,776	2,699	1,448	1,154	1,307	1,739
80%	1,994	1,951	1,829	1,884	2,150	2,371	2,789	2,153	1,293	1,087	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	1,887	1,678	1,085	885	1,067	1,476
Long Term												
Full Simulation Period[b]	2,672	2,611	3,391	5,070	6,655	7,278	7,528	6,039	4,194	2,622	1,847	2,223
Water Year Types[c]												
Wet (23%)	2,918	3,513	6,545	11,446	15,776	16,863	15,423	14,628	11,335	6,676	3,135	3,416
Above Normal (24%)	2,700	2,416	2,663	4,883	6,881	7,536	8,542	5,264	3,280	1,989	1,975	2,345
Below Normal (10%)	2,538	2,249	3,661	3,507	3,651	4,149	6,337	4,140	2,076	1,463	1,446	1,837
Dry (16%)	2,767	2,569	2,232	2,402	2,549	3,241	3,996	2,805	1,680	1,254	1,347	1,776
Critical (27%)	2,426	2,168	1,915	1,877	2,090	2,288	2,307	1,929	1,115	926	1,060	1,487

Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,015	3,156	4,932	11,157	14,594	15,467	14,666	14,360	10,139	5,612	2,740	3,146
20%	2,692	2,843	2,953	4,819	10,200	9,482	10,169	8,291	5,696	2,636	2,600	2,658
30%	2,520	2,663	2,541	3,655	6,300	7,933	8,421	5,676	3,488	1,990	1,897	2,503
40%	2,331	2,500	2,341	2,692	4,268	5,393	7,435	4,617	3,188	1,742	1,676	2,142
50%	2,157	2,386	2,257	2,544	3,420	3,883	6,016	4,043	2,349	1,506	1,500	1,944
60%	1,952	2,244	2,165	2,343	2,774	3,511	4,349	3,276	1,895	1,379	1,415	1,842
70%	1,752	2,141	2,027	2,153	2,443	2,963	3,119	2,891	1,485	1,170	1,321	1,743
80%	1,597	1,984	1,903	1,923	2,174	2,414	2,442	2,362	1,274	1,088	1,211	1,611
90%	1,411	1,793	1,699	1,733	1,945	2,230	1,779	1,890	1,085	941	1,071	1,478
Long Term												
Full Simulation Period[b]	2,241	2,721	3,492	5,136	6,700	7,131	7,255	6,101	4,547	2,625	1,838	2,238
Water Year Types[c]												
Wet (23%)	2,497	3,627	6,644	11,506	15,763	16,308	15,374	14,433	12,512	6,641	3,078	3,456
Above Normal (24%)	2,288	2,532	2,757	4,947	6,946	7,415	8,260	5,348	3,525	1,999	1,977	2,352
Below Normal (10%)	2,086	2,397	3,810	3,608	3,723	4,101	5,842	4,213	2,225	1,481	1,457	1,856
Dry (16%)	2,339	2,684	2,347	2,487	2,628	3,304	3,551	2,976	1,714	1,267	1,362	1,789
Critical (27%)	1,974	2,251	1,998	1,927	2,138	2,311	2,031	2,122	1,116	943	1,059	1,485

Alternative 1 minus No Action Alternative

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-14%**	**7%**	3%	0%	0%	0%	-2%	1%	**8%**	-5%	-2%	3%
20%	**-15%**	2%	3%	0%	1%	**-7%**	-4%	0%	**21%**	0%	0%	0%
30%	**-15%**	**5%**	**6%**	1%	3%	**-6%**	-2%	3%	4%	0%	0%	1%
40%	**-17%**	4%	**6%**	2%	1%	-3%	-2%	0%	**8%**	0%	1%	1%
50%	**-17%**	**7%**	**7%**	**6%**	0%	1%	0%	3%	5%	1%	1%	1%
60%	**-19%**	3%	**6%**	2%	3%	2%	**-10%**	**7%**	2%	1%	1%	0%
70%	**-22%**	4%	2%	2%	**6%**	2%	**-17%**	**7%**	3%	1%	1%	0%
80%	**-20%**	2%	4%	2%	1%	2%	**-12%**	**10%**	-1%	0%	1%	0%
90%	**-24%**	2%	2%	2%	0%	1%	**-6%**	**13%**	0%	**6%**	0%	0%
Long Term												
Full Simulation Period[b]	**-16%**	4%	3%	1%	1%	-2%	-4%	1%	**8%**	0%	-1%	1%
Water Year Types[c]												
Wet (23%)	**-14%**	3%	2%	1%	0%	-3%	0%	-1%	**10%**	-1%	-2%	1%
Above Normal (24%)	**-15%**	5%	4%	1%	1%	-2%	-3%	2%	**7%**	0%	0%	0%
Below Normal (10%)	**-18%**	**7%**	4%	3%	2%	-1%	**-8%**	2%	**7%**	1%	1%	1%
Dry (16%)	**-15%**	4%	**5%**	4%	3%	2%	**-11%**	**6%**	2%	1%	1%	1%
Critical (27%)	**-19%**	4%	4%	3%	2%	1%	**-12%**	**10%**	0%	2%	0%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.10.2 San Joaquin River at Vernalis, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,015	3,156	4,932	11,157	14,594	15,467	14,666	14,360	10,139	5,612	2,740	3,146
20%	2,692	2,843	2,953	4,819	10,200	9,482	10,169	8,291	5,696	2,636	2,600	2,658
30%	2,520	2,663	2,541	3,655	6,300	7,933	8,421	5,676	3,488	1,990	1,897	2,503
40%	2,331	2,500	2,341	2,692	4,268	5,393	7,435	4,617	3,188	1,742	1,676	2,142
50%	2,157	2,386	2,257	2,544	3,420	3,883	6,016	4,043	2,349	1,506	1,500	1,944
60%	1,952	2,244	2,165	2,343	2,774	3,511	4,349	3,276	1,895	1,379	1,415	1,842
70%	1,752	2,141	2,027	2,153	2,443	2,963	3,119	2,891	1,485	1,170	1,321	1,743
80%	1,597	1,984	1,903	1,923	2,174	2,414	2,442	2,362	1,274	1,088	1,211	1,611
90%	1,411	1,793	1,699	1,733	1,945	2,230	1,779	1,890	1,085	941	1,071	1,478
Long Term												
Full Simulation Period[b]	2,241	2,721	3,492	5,136	6,700	7,131	7,255	6,101	4,547	2,625	1,838	2,238
Water Year Types[c]												
Wet (23%)	2,497	3,627	6,644	11,506	15,763	16,308	15,374	14,433	12,512	6,641	3,078	3,456
Above Normal (24%)	2,288	2,532	2,757	4,947	6,946	7,415	8,260	5,348	3,525	1,999	1,977	2,352
Below Normal (10%)	2,086	2,397	3,810	3,608	3,723	4,101	5,842	4,213	2,225	1,481	1,457	1,856
Dry (16%)	2,339	2,684	2,347	2,487	2,628	3,304	3,551	2,976	1,714	1,267	1,362	1,789
Critical (27%)	1,974	2,251	1,998	1,927	2,138	2,311	2,031	2,122	1,116	943	1,059	1,485

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,498	2,953	4,804	11,135	14,596	15,471	14,974	14,174	9,351	5,890	2,796	3,060
20%	3,161	2,777	2,857	4,812	10,143	10,197	10,637	8,318	4,690	2,628	2,589	2,654
30%	2,980	2,527	2,401	3,610	6,118	8,459	8,616	5,534	3,364	1,985	1,904	2,490
40%	2,796	2,395	2,215	2,629	4,232	5,570	7,564	4,609	2,947	1,735	1,666	2,125
50%	2,601	2,219	2,101	2,402	3,420	3,847	6,017	3,925	2,246	1,487	1,488	1,930
60%	2,401	2,169	2,046	2,293	2,683	3,459	4,832	3,062	1,859	1,366	1,403	1,835
70%	2,247	2,059	1,979	2,114	2,305	2,906	3,776	2,699	1,448	1,154	1,307	1,739
80%	1,994	1,951	1,829	1,884	2,150	2,371	2,789	2,153	1,293	1,087	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	1,887	1,678	1,085	885	1,067	1,476
Long Term												
Full Simulation Period[b]	2,672	2,611	3,391	5,070	6,655	7,278	7,528	6,039	4,194	2,622	1,847	2,223
Water Year Types[c]												
Wet (23%)	2,918	3,513	6,545	11,446	15,776	16,863	15,423	14,628	11,335	6,676	3,135	3,416
Above Normal (24%)	2,700	2,416	2,663	4,883	6,881	7,536	8,542	5,264	3,280	1,989	1,975	2,345
Below Normal (10%)	2,538	2,249	3,661	3,507	3,651	4,149	6,337	4,140	2,076	1,463	1,446	1,837
Dry (16%)	2,767	2,569	2,232	2,402	2,549	3,241	3,996	2,805	1,680	1,254	1,347	1,776
Critical (27%)	2,426	2,168	1,915	1,877	2,090	2,288	2,307	1,929	1,115	926	1,060	1,487

No Action Alternative minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**16%**	**-6%**	-3%	0%	0%	0%	2%	-1%	**-8%**	5%	2%	-3%
20%	**17%**	-2%	-3%	0%	-1%	**8%**	5%	0%	**-18%**	0%	0%	0%
30%	**18%**	**-5%**	**-6%**	-1%	-3%	**7%**	2%	-3%	-4%	0%	0%	-1%
40%	**20%**	-4%	**-5%**	-2%	-1%	3%	2%	0%	**-8%**	0%	-1%	-1%
50%	**21%**	**-7%**	**-7%**	**-6%**	0%	-1%	0%	-3%	-4%	-1%	-1%	-1%
60%	**23%**	-3%	**-6%**	-2%	-3%	-1%	**11%**	**-7%**	-2%	-1%	-1%	0%
70%	**28%**	-4%	-2%	-2%	**-6%**	-2%	**21%**	**-7%**	-2%	-1%	-1%	0%
80%	**25%**	-2%	-4%	-2%	-1%	-2%	**14%**	**-9%**	2%	0%	-1%	0%
90%	**31%**	-2%	-2%	-2%	0%	-1%	**6%**	**-11%**	0%	**-6%**	0%	0%
Long Term												
Full Simulation Period[b]	**19%**	-4%	-3%	-1%	-1%	2%	4%	-1%	**-8%**	0%	1%	-1%
Water Year Types[c]												
Wet (23%)	**17%**	-3%	-1%	-1%	0%	3%	0%	1%	**-9%**	1%	2%	-1%
Above Normal (24%)	**18%**	-5%	-3%	-1%	-1%	2%	3%	-2%	**-7%**	0%	0%	0%
Below Normal (10%)	**22%**	**-6%**	-4%	-3%	-2%	1%	**8%**	-2%	**-7%**	-1%	-1%	-1%
Dry (16%)	**18%**	-4%	-5%	-3%	-3%	-2%	**13%**	**-6%**	-2%	-1%	-1%	-1%
Critical (27%)	**23%**	-4%	-4%	-3%	-2%	-1%	**14%**	**-9%**	0%	-2%	0%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.10.3 San Joaquin River at Vernalis, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,015	3,156	4,932	11,157	14,594	15,467	14,666	14,360	10,139	5,612	2,740	3,146
20%	2,692	2,843	2,953	4,819	10,200	9,482	10,169	8,291	5,696	2,636	2,600	2,658
30%	2,520	2,663	2,541	3,655	6,300	7,933	8,421	5,676	3,488	1,990	1,897	2,503
40%	2,331	2,500	2,341	2,692	4,268	5,393	7,435	4,617	3,188	1,742	1,676	2,142
50%	2,157	2,386	2,257	2,544	3,420	3,883	6,016	4,043	2,349	1,506	1,500	1,944
60%	1,952	2,244	2,165	2,343	2,774	3,511	4,349	3,276	1,895	1,379	1,415	1,842
70%	1,752	2,141	2,027	2,153	2,443	2,963	3,119	2,891	1,485	1,170	1,321	1,743
80%	1,597	1,984	1,903	1,923	2,174	2,414	2,442	2,362	1,274	1,088	1,211	1,611
90%	1,411	1,793	1,699	1,733	1,945	2,230	1,779	1,890	1,085	941	1,071	1,478
Long Term												
Full Simulation Period[b]	2,241	2,721	3,492	5,136	6,700	7,131	7,255	6,101	4,547	2,625	1,838	2,238
Water Year Types[c]												
Wet (23%)	2,497	3,627	6,644	11,506	15,763	16,308	15,374	14,433	12,512	6,641	3,078	3,456
Above Normal (24%)	2,288	2,532	2,757	4,947	6,946	7,415	8,260	5,348	3,525	1,999	1,977	2,352
Below Normal (10%)	2,086	2,397	3,810	3,608	3,723	4,101	5,842	4,213	2,225	1,481	1,457	1,856
Dry (16%)	2,339	2,684	2,347	2,487	2,628	3,304	3,551	2,976	1,714	1,267	1,362	1,789
Critical (27%)	1,974	2,251	1,998	1,927	2,138	2,311	2,031	2,122	1,116	943	1,059	1,485

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,023	3,053	4,949	12,089	17,246	15,467	14,936	14,309	10,004	6,473	3,525	3,287
20%	2,667	2,830	2,938	4,833	10,213	9,874	10,251	7,931	4,627	2,495	2,587	2,623
30%	2,494	2,583	2,421	3,540	6,797	7,753	8,532	5,438	2,558	1,926	1,892	2,464
40%	2,328	2,478	2,304	2,753	4,210	5,305	7,580	4,344	2,294	1,722	1,667	2,125
50%	2,137	2,313	2,191	2,439	3,215	3,847	6,112	3,821	1,955	1,506	1,495	1,932
60%	1,956	2,244	2,140	2,236	2,668	3,440	4,501	2,907	1,700	1,361	1,415	1,838
70%	1,782	2,148	2,012	2,088	2,360	2,906	3,355	2,502	1,364	1,164	1,319	1,743
80%	1,609	1,974	1,886	1,824	2,090	2,371	2,581	2,158	1,241	1,026	1,211	1,612
90%	1,466	1,763	1,669	1,639	1,849	2,205	1,936	1,650	1,001	930	1,065	1,477
Long Term												
Full Simulation Period[b]	2,252	2,683	3,501	5,108	6,872	7,145	7,431	5,830	4,009	2,655	1,882	2,271
Water Year Types[c]												
Wet (23%)	2,505	3,604	6,760	11,512	16,584	16,445	15,425	14,237	11,476	6,916	3,267	3,610
Above Normal (24%)	2,310	2,488	2,775	4,925	6,937	7,444	8,476	5,078	2,579	1,910	1,972	2,341
Below Normal (10%)	2,067	2,299	3,711	3,708	3,857	4,057	6,015	3,856	1,865	1,472	1,454	1,834
Dry (16%)	2,346	2,646	2,309	2,419	2,607	3,241	3,785	2,611	1,568	1,253	1,360	1,782
Critical (27%)	1,991	2,227	1,974	1,842	2,043	2,273	2,247	1,874	1,080	912	1,067	1,497

Alternative 3 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	-3%	0%	**8%**	**18%**	0%	2%	0%	-1%	**15%**	**29%**	4%
20%	-1%	0%	-1%	0%	0%	4%	1%	-4%	**-19%**	**-5%**	0%	-1%
30%	-1%	-3%	-5%	-3%	**8%**	-2%	1%	-4%	**-27%**	-3%	0%	-2%
40%	0%	-1%	-2%	2%	-1%	-2%	2%	**-6%**	**-28%**	-1%	-1%	-1%
50%	-1%	-3%	-3%	-4%	**-6%**	-1%	2%	**-5%**	**-17%**	0%	0%	-1%
60%	0%	0%	-1%	-5%	-4%	-2%	3%	**-11%**	**-10%**	-1%	0%	0%
70%	2%	0%	-1%	-3%	-3%	-2%	**8%**	**-13%**	**-8%**	0%	0%	0%
80%	1%	0%	-1%	**-5%**	-4%	-2%	**6%**	**-9%**	-3%	**-6%**	0%	0%
90%	4%	-2%	-2%	**-5%**	-5%	-1%	**9%**	**-13%**	**-8%**	-1%	-1%	0%
Long Term												
Full Simulation Period[b]	0%	-1%	0%	-1%	3%	0%	2%	-4%	**-12%**	1%	2%	1%
Water Year Types[c]												
Wet (23%)	0%	-1%	2%	0%	**5%**	1%	0%	-1%	**-8%**	4%	**6%**	4%
Above Normal (24%)	1%	-2%	1%	0%	0%	0%	3%	**-5%**	**-27%**	-4%	0%	0%
Below Normal (10%)	-1%	-4%	-3%	3%	4%	-1%	3%	**-8%**	**-16%**	-1%	0%	-1%
Dry (16%)	0%	-1%	-2%	-3%	-1%	-2%	**7%**	**-12%**	**-9%**	-1%	0%	0%
Critical (27%)	1%	-1%	-1%	-4%	-4%	-2%	**11%**	**-12%**	-3%	-3%	1%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.10.4 San Joaquin River at Vernalis, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,015	3,156	4,932	11,157	14,594	15,467	14,666	14,360	10,139	5,612	2,740	3,146
20%	2,692	2,843	2,953	4,819	10,200	9,482	10,169	8,291	5,696	2,636	2,600	2,658
30%	2,520	2,663	2,541	3,655	6,300	7,933	8,421	5,676	3,488	1,990	1,897	2,503
40%	2,331	2,500	2,341	2,692	4,268	5,393	7,435	4,617	3,188	1,742	1,676	2,142
50%	2,157	2,386	2,257	2,544	3,420	3,883	6,016	4,043	2,349	1,506	1,500	1,944
60%	1,952	2,244	2,165	2,343	2,774	3,511	4,349	3,276	1,895	1,379	1,415	1,842
70%	1,752	2,141	2,027	2,153	2,443	2,963	3,119	2,891	1,485	1,170	1,321	1,743
80%	1,597	1,984	1,903	1,923	2,174	2,414	2,442	2,362	1,274	1,088	1,211	1,611
90%	1,411	1,793	1,699	1,733	1,945	2,230	1,779	1,890	1,085	941	1,071	1,478
Long Term												
Full Simulation Period[b]	2,241	2,721	3,492	5,136	6,700	7,131	7,255	6,101	4,547	2,625	1,838	2,238
Water Year Types[c]												
Wet (23%)	2,497	3,627	6,644	11,506	15,763	16,308	15,374	14,433	12,512	6,641	3,078	3,456
Above Normal (24%)	2,288	2,532	2,757	4,947	6,946	7,415	8,260	5,348	3,525	1,999	1,977	2,352
Below Normal (10%)	2,086	2,397	3,810	3,608	3,723	4,101	5,842	4,213	2,225	1,481	1,457	1,856
Dry (16%)	2,339	2,684	2,347	2,487	2,628	3,304	3,551	2,976	1,714	1,267	1,362	1,789
Critical (27%)	1,974	2,251	1,998	1,927	2,138	2,311	2,031	2,122	1,116	943	1,059	1,485

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,495	2,953	4,804	11,129	14,597	15,473	14,976	14,176	9,351	5,773	2,776	3,084
20%	3,146	2,777	2,897	4,811	10,142	9,856	10,265	8,232	4,688	2,628	2,589	2,654
30%	2,938	2,527	2,401	3,610	6,118	8,461	8,576	5,670	3,364	1,985	1,904	2,488
40%	2,763	2,395	2,204	2,629	4,232	5,570	7,567	5,162	2,947	1,735	1,666	2,125
50%	2,588	2,219	2,101	2,402	3,420	3,846	6,110	4,183	2,219	1,484	1,488	1,930
60%	2,385	2,169	2,046	2,289	2,683	3,459	5,047	3,554	1,860	1,365	1,402	1,835
70%	2,196	2,059	1,979	2,083	2,303	2,906	4,317	2,916	1,447	1,155	1,307	1,739
80%	1,988	1,951	1,829	1,883	2,145	2,371	3,100	2,401	1,283	1,052	1,202	1,611
90%	1,849	1,763	1,669	1,699	1,947	2,204	2,461	2,245	1,000	885	1,025	1,431
Long Term												
Full Simulation Period[b]	2,660	2,609	3,371	5,071	6,639	7,235	7,686	6,290	4,174	2,597	1,818	2,213
Water Year Types[c]												
Wet (23%)	2,903	3,513	6,448	11,445	15,743	16,679	15,389	14,666	11,287	6,580	3,020	3,379
Above Normal (24%)	2,691	2,411	2,679	4,897	6,864	7,536	8,487	5,671	3,280	1,989	1,975	2,345
Below Normal (10%)	2,531	2,249	3,661	3,506	3,650	4,149	6,299	4,206	2,062	1,462	1,446	1,837
Dry (16%)	2,750	2,569	2,232	2,400	2,547	3,241	4,420	3,245	1,672	1,253	1,346	1,776
Critical (27%)	2,418	2,163	1,910	1,871	2,078	2,288	2,741	2,177	1,090	916	1,051	1,480

Alternative 5 minus Second Basis of Comparison

	Monthly Flow (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	16%	-6%	-3%	0%	0%	0%	2%	-1%	-8%	3%	1%	-2%
20%	17%	-2%	-2%	0%	-1%	4%	1%	-1%	-18%	0%	0%	0%
30%	17%	-5%	-6%	-1%	-3%	7%	2%	0%	-4%	0%	0%	-1%
40%	19%	-4%	-6%	-2%	-1%	3%	2%	12%	-8%	0%	-1%	-1%
50%	20%	-7%	-7%	-6%	0%	-1%	2%	3%	-6%	-1%	-1%	-1%
60%	22%	-3%	-6%	-2%	-3%	-1%	16%	8%	-2%	-1%	-1%	0%
70%	25%	-4%	-2%	-3%	-6%	-2%	38%	1%	-3%	-1%	-1%	0%
80%	24%	-2%	-4%	-2%	-1%	-2%	27%	2%	1%	-3%	-1%	0%
90%	31%	-2%	-2%	-2%	0%	-1%	38%	19%	-8%	-6%	-4%	-3%
Long Term												
Full Simulation Period[b]	19%	-4%	-3%	-1%	-1%	1%	6%	3%	-8%	-1%	-1%	-1%
Water Year Types[c]												
Wet (23%)	16%	-3%	-3%	-1%	0%	2%	0%	2%	-10%	-1%	-2%	-2%
Above Normal (24%)	18%	-5%	-3%	-1%	-1%	2%	3%	6%	-7%	-1%	0%	0%
Below Normal (10%)	21%	-6%	-4%	-3%	-2%	1%	8%	0%	-7%	-1%	-1%	-1%
Dry (16%)	18%	-4%	-5%	-3%	-3%	-2%	24%	9%	-2%	-1%	-1%	-1%
Critical (27%)	22%	-4%	-4%	-3%	-3%	-1%	35%	3%	-2%	-3%	-1%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.11 Old and Middle River Flow

Table 5C.3.3.11.1 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

No Action Alternative

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	614	893	4,094	6,333	7,834	5,445	4,160	2,848	1,180	763	277	1,161
20%	586	874	2,112	4,323	4,927	4,179	2,834	1,727	609	688	259	1,134
30%	576	825	1,003	3,149	3,624	2,834	1,795	1,200	548	573	246	909
40%	423	657	761	1,793	2,868	2,092	1,504	1,004	465	497	246	656
50%	270	586	611	1,299	2,037	1,676	1,197	843	431	492	246	261
60%	246	368	359	1,050	1,407	1,204	946	731	422	400	246	201
70%	246	268	315	800	1,023	1,061	758	592	408	307	246	179
80%	246	268	278	586	823	783	598	520	383	307	246	179
90%	184	210	277	486	633	662	564	446	334	246	240	179
Long Term												
Full Simulation Period[b]	401	686	1,416	2,720	3,186	2,697	1,812	1,281	648	495	258	565
Water Year Types[c]												
Wet (32%)	520	1,020	2,913	5,509	5,771	5,000	3,288	2,394	1,120	655	273	1,133
Above Normal (16%)	332	742	1,502	3,049	3,807	3,236	1,938	1,201	485	667	251	662
Below Normal (13%)	471	650	582	1,077	2,048	1,113	1,019	789	445	508	254	211
Dry (24%)	341	470	471	981	1,443	1,396	999	680	431	315	257	191
Critical (15%)	253	296	418	723	861	747	559	410	348	249	235	179

Alternative 1

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	357	895	4,054	6,567	8,061	5,795	3,950	2,541	1,167	670	268	260
20%	283	383	2,007	4,470	4,927	4,380	2,580	1,582	679	593	251	240
30%	264	327	950	2,828	3,382	2,653	1,494	954	588	515	246	234
40%	251	291	635	1,564	2,894	2,062	1,215	801	556	492	246	227
50%	246	268	477	1,080	1,904	1,621	855	734	507	475	246	219
60%	246	268	382	833	1,179	1,104	724	674	485	400	246	181
70%	246	268	314	673	908	901	597	563	433	307	246	179
80%	246	268	277	518	698	752	567	535	422	307	232	179
90%	211	208	277	405	562	601	528	437	377	246	215	179
Long Term												
Full Simulation Period[b]	286	506	1,408	2,595	3,126	2,682	1,611	1,161	705	458	252	237
Water Year Types[c]												
Wet (32%)	340	791	3,011	5,453	5,779	5,081	3,010	2,178	1,209	605	271	319
Above Normal (16%)	253	566	1,391	2,845	3,822	3,311	1,615	1,026	562	601	249	224
Below Normal (13%)	291	433	545	879	2,062	1,078	813	719	533	437	255	206
Dry (24%)	260	296	439	815	1,269	1,236	879	635	454	310	242	191
Critical (15%)	240	244	364	670	690	680	525	386	346	248	231	179

Alternative 1 minus No Action Alternative

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-42%	0%	-1%	4%	3%	6%	-5%	-11%	-1%	-12%	-3%	-78%
20%	-52%	-56%	-5%	3%	0%	5%	-9%	-8%	11%	-14%	-3%	-79%
30%	-54%	-60%	-5%	-10%	-7%	-6%	-17%	-21%	7%	-10%	0%	-74%
40%	-41%	-56%	-17%	-13%	1%	-1%	-19%	-20%	20%	-1%	0%	-65%
50%	-9%	-54%	-22%	-17%	-7%	-3%	-29%	-13%	18%	-3%	0%	-16%
60%	0%	-27%	6%	-21%	-16%	-8%	-23%	-8%	15%	0%	0%	-10%
70%	0%	0%	0%	-16%	-11%	-15%	-21%	-5%	6%	0%	0%	0%
80%	0%	0%	0%	-11%	-15%	-4%	-5%	3%	10%	0%	-6%	0%
90%	15%	-1%	0%	-17%	-11%	-9%	-6%	-2%	13%	0%	-10%	0%
Long Term												
Full Simulation Period[b]	-29%	-26%	-1%	-5%	-2%	-1%	-11%	-9%	9%	-8%	-2%	-58%
Water Year Types[c]												
Wet (32%)	-35%	-22%	3%	-1%	0%	2%	-8%	-9%	8%	-8%	-1%	-72%
Above Normal (16%)	-24%	-24%	-7%	-7%	0%	2%	-17%	-15%	16%	-10%	-1%	-66%
Below Normal (13%)	-38%	-33%	-6%	-18%	1%	-3%	-20%	-9%	20%	-14%	0%	-3%
Dry (24%)	-24%	-37%	-7%	-17%	-12%	-11%	-12%	-7%	5%	-2%	-6%	0%
Critical (15%)	-5%	-18%	-13%	-7%	-20%	-9%	-6%	-6%	-1%	0%	-2%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.11.2 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	357	895	4,054	6,567	8,061	5,795	3,950	2,541	1,167	670	268	260
20%	283	383	2,007	4,470	4,927	4,380	2,580	1,582	679	593	251	240
30%	264	327	950	2,828	3,382	2,653	1,494	954	588	515	246	234
40%	251	291	635	1,564	2,894	2,062	1,215	801	556	492	246	227
50%	246	268	477	1,080	1,904	1,621	855	734	507	475	246	219
60%	246	268	382	833	1,179	1,104	724	674	485	400	246	181
70%	246	268	314	673	908	901	597	563	433	307	246	179
80%	246	268	277	518	698	752	567	535	422	307	232	179
90%	211	208	277	405	562	601	528	437	377	246	215	179
Long Term												
Full Simulation Period[b]	286	506	1,408	2,595	3,126	2,682	1,611	1,161	705	458	252	237
Water Year Types[c]												
Wet (32%)	340	791	3,011	5,453	5,779	5,081	3,010	2,178	1,209	605	271	319
Above Normal (16%)	253	566	1,391	2,845	3,822	3,311	1,615	1,026	562	601	249	224
Below Normal (13%)	291	433	545	879	2,062	1,078	813	719	533	437	255	206
Dry (24%)	260	296	439	815	1,269	1,236	879	635	454	310	242	191
Critical (15%)	240	244	364	670	690	680	525	386	346	248	231	179

No Action Alternative

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	614	893	4,094	6,333	7,834	5,445	4,160	2,848	1,180	763	277	1,161
20%	586	874	2,112	4,323	4,927	4,179	2,834	1,727	609	688	259	1,134
30%	576	825	1,003	3,149	3,624	2,834	1,795	1,200	548	573	246	909
40%	423	657	761	1,793	2,868	2,092	1,504	1,004	465	497	246	656
50%	270	586	611	1,299	2,037	1,676	1,197	843	431	492	246	261
60%	246	368	359	1,050	1,407	1,204	946	731	422	400	246	201
70%	246	268	315	800	1,023	1,061	758	592	408	307	246	179
80%	246	268	278	586	823	783	598	520	383	307	246	179
90%	184	210	277	486	633	662	564	446	334	246	240	179
Long Term												
Full Simulation Period[b]	401	686	1,416	2,720	3,186	2,697	1,812	1,281	648	495	258	565
Water Year Types[c]												
Wet (32%)	520	1,020	2,913	5,509	5,771	5,000	3,288	2,394	1,120	655	273	1,133
Above Normal (16%)	332	742	1,502	3,049	3,807	3,236	1,938	1,201	485	667	251	662
Below Normal (13%)	471	650	582	1,077	2,048	1,113	1,019	789	445	508	254	211
Dry (24%)	341	470	471	981	1,443	1,396	999	680	431	315	257	191
Critical (15%)	253	296	418	723	861	747	559	410	348	249	235	179

No Action Alternative minus Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	72%	0%	1%	-4%	-3%	-6%	5%	12%	1%	14%	3%	346%
20%	107%	128%	5%	-3%	0%	-5%	10%	9%	-10%	16%	3%	372%
30%	118%	152%	5%	11%	7%	7%	20%	26%	-7%	11%	0%	288%
40%	68%	126%	20%	15%	-1%	1%	24%	25%	-16%	1%	0%	189%
50%	10%	119%	28%	20%	7%	3%	40%	15%	-15%	4%	0%	19%
60%	0%	37%	-6%	26%	19%	9%	31%	8%	-13%	0%	0%	11%
70%	0%	0%	0%	19%	13%	18%	27%	5%	-6%	0%	0%	0%
80%	0%	0%	0%	13%	18%	4%	5%	-3%	-9%	0%	6%	0%
90%	-13%	1%	0%	20%	13%	10%	7%	2%	-12%	0%	11%	0%
Long Term												
Full Simulation Period[b]	40%	36%	1%	5%	2%	1%	12%	10%	-8%	8%	2%	139%
Water Year Types[c]												
Wet (32%)	53%	29%	-3%	1%	0%	-2%	9%	10%	-7%	8%	1%	255%
Above Normal (16%)	31%	31%	8%	7%	0%	-2%	20%	17%	-14%	11%	1%	195%
Below Normal (13%)	62%	50%	7%	23%	-1%	3%	25%	10%	-17%	16%	0%	3%
Dry (24%)	31%	59%	7%	20%	14%	13%	14%	7%	-5%	2%	6%	0%
Critical (15%)	5%	21%	15%	8%	25%	10%	6%	6%	1%	0%	2%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.11.3 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	357	895	4,054	6,567	8,061	5,795	3,950	2,541	1,167	670	268	260
20%	283	383	2,007	4,470	4,927	4,380	2,580	1,582	679	593	251	240
30%	264	327	950	2,828	3,382	2,653	1,494	954	588	515	246	234
40%	251	291	635	1,564	2,894	2,062	1,215	801	556	492	246	227
50%	246	268	477	1,080	1,904	1,621	855	734	507	475	246	219
60%	246	268	382	833	1,179	1,104	724	674	485	400	246	181
70%	246	268	314	673	908	901	597	563	433	307	246	179
80%	246	268	277	518	698	752	567	535	422	307	232	179
90%	211	208	277	405	562	601	528	437	377	246	215	179
Long Term												
Full Simulation Period[b]	286	506	1,408	2,595	3,126	2,682	1,611	1,161	705	458	252	237
Water Year Types[c]												
Wet (32%)	340	791	3,011	5,453	5,779	5,081	3,010	2,178	1,209	605	271	319
Above Normal (16%)	253	566	1,391	2,845	3,822	3,311	1,615	1,026	562	601	249	224
Below Normal (13%)	291	433	545	879	2,062	1,078	813	719	533	437	255	206
Dry (24%)	260	296	439	815	1,269	1,236	879	635	454	310	242	191
Critical (15%)	240	244	364	670	690	680	525	386	346	248	231	179

Alternative 3

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	298	902	4,155	6,646	7,924	5,788	3,812	2,471	1,066	729	265	261
20%	266	389	2,140	4,462	4,802	4,293	2,584	1,383	630	659	246	245
30%	257	319	1,154	3,104	3,795	2,714	1,525	913	572	575	246	235
40%	246	290	722	1,875	3,031	2,137	1,238	750	502	492	246	229
50%	246	268	480	1,398	2,079	1,678	867	704	477	492	246	222
60%	246	268	398	1,061	1,416	1,185	754	630	436	428	246	191
70%	246	268	336	768	1,078	1,032	601	579	422	307	246	179
80%	246	268	277	599	821	789	566	493	409	307	241	179
90%	185	208	277	497	634	654	512	437	351	246	222	179
Long Term												
Full Simulation Period[b]	277	506	1,465	2,772	3,236	2,711	1,617	1,122	656	490	252	240
Water Year Types[c]												
Wet (32%)	333	791	3,116	5,609	5,812	5,020	2,996	2,109	1,118	649	271	319
Above Normal (16%)	242	568	1,461	3,096	3,903	3,292	1,636	960	514	645	246	228
Below Normal (13%)	281	422	564	1,156	2,186	1,120	856	699	457	507	254	221
Dry (24%)	250	297	457	992	1,459	1,384	882	612	445	321	245	191
Critical (15%)	234	243	397	721	859	752	528	397	346	246	230	179

Alternative 3 minus Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-16%	1%	2%	1%	-2%	0%	-3%	-3%	-9%	9%	-1%	0%
20%	-6%	2%	7%	0%	-3%	-2%	0%	-13%	-7%	11%	-2%	2%
30%	-3%	-3%	21%	10%	12%	2%	2%	-4%	-3%	12%	0%	0%
40%	-2%	0%	14%	20%	5%	4%	2%	-6%	-10%	0%	0%	1%
50%	0%	0%	1%	29%	9%	3%	1%	-4%	-6%	4%	0%	1%
60%	0%	0%	4%	27%	20%	7%	4%	-7%	-10%	7%	0%	6%
70%	0%	0%	7%	14%	19%	14%	1%	3%	-2%	0%	0%	0%
80%	0%	0%	0%	16%	18%	5%	0%	-8%	-3%	0%	4%	0%
90%	-13%	0%	0%	23%	13%	9%	-3%	0%	-7%	0%	3%	0%
Long Term												
Full Simulation Period[b]	-3%	0%	4%	7%	4%	1%	0%	-3%	-7%	7%	0%	1%
Water Year Types[c]												
Wet (32%)	-2%	0%	4%	3%	1%	-1%	0%	-3%	-8%	7%	0%	0%
Above Normal (16%)	-4%	0%	5%	9%	2%	-1%	1%	-7%	-9%	7%	-1%	1%
Below Normal (13%)	-4%	-3%	4%	32%	6%	4%	5%	-3%	-14%	16%	0%	7%
Dry (24%)	-4%	0%	4%	22%	15%	12%	0%	-4%	-2%	4%	1%	0%
Critical (15%)	-2%	0%	9%	8%	25%	11%	1%	3%	0%	-1%	0%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.11.4 Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

Second Basis of Comparison

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	357	895	4,054	6,567	8,061	5,795	3,950	2,541	1,167	670	268	260
20%	283	383	2,007	4,470	4,927	4,380	2,580	1,582	679	593	251	240
30%	264	327	950	2,828	3,382	2,653	1,494	954	588	515	246	234
40%	251	291	635	1,564	2,894	2,062	1,215	801	556	492	246	227
50%	246	268	477	1,080	1,904	1,621	855	734	507	475	246	219
60%	246	268	382	833	1,179	1,104	724	674	485	400	246	181
70%	246	268	314	673	908	901	597	563	433	307	246	179
80%	246	268	277	518	698	752	567	535	422	307	232	179
90%	211	208	277	405	562	601	528	437	377	246	215	179
Long Term												
Full Simulation Period[b]	286	506	1,408	2,595	3,126	2,682	1,611	1,161	705	458	252	237
Water Year Types[c]												
Wet (32%)	340	791	3,011	5,453	5,779	5,081	3,010	2,178	1,209	605	271	319
Above Normal (16%)	253	566	1,391	2,845	3,822	3,311	1,615	1,026	562	601	249	224
Below Normal (13%)	291	433	545	879	2,062	1,078	813	719	533	437	255	206
Dry (24%)	260	296	439	815	1,269	1,236	879	635	454	310	242	191
Critical (15%)	240	244	364	670	690	680	525	386	346	248	231	179

Alternative 5

	Monthly Outflow Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	623	960	4,115	6,339	7,831	5,439	4,160	2,849	1,180	767	284	1,161
20%	594	874	2,112	4,319	4,907	4,174	2,807	1,763	606	688	256	1,134
30%	576	830	1,008	3,149	3,653	2,835	1,798	1,237	524	593	246	910
40%	423	660	762	1,785	2,869	2,092	1,542	1,002	453	501	246	651
50%	257	586	616	1,301	2,053	1,666	1,234	873	423	492	246	255
60%	246	369	359	1,048	1,406	1,203	1,028	776	422	400	246	204
70%	246	268	310	800	1,025	1,057	817	629	401	308	246	179
80%	246	268	286	585	823	783	712	561	370	307	246	179
90%	184	211	277	486	633	662	623	462	330	246	230	179
Long Term												
Full Simulation Period[b]	401	690	1,413	2,714	3,184	2,695	1,848	1,312	642	500	257	565
Water Year Types[c]												
Wet (32%)	517	1,020	2,905	5,499	5,773	4,996	3,288	2,411	1,117	667	273	1,132
Above Normal (16%)	334	767	1,505	3,048	3,795	3,232	1,947	1,223	482	668	251	661
Below Normal (13%)	471	650	582	1,075	2,047	1,110	1,061	821	434	513	254	214
Dry (24%)	342	471	467	980	1,444	1,396	1,081	720	423	316	256	191
Critical (15%)	254	296	418	714	856	747	621	462	346	249	233	179

Alternative 5 minus Second Basis of Comparison

	Monthly Outflow Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	75%	7%	2%	-3%	-3%	-6%	5%	12%	1%	14%	6%	346%
20%	110%	128%	5%	-3%	0%	-5%	9%	11%	-11%	16%	2%	372%
30%	118%	154%	6%	11%	8%	7%	20%	30%	-11%	15%	0%	288%
40%	68%	127%	20%	14%	-1%	1%	27%	25%	-19%	2%	0%	186%
50%	5%	119%	29%	20%	8%	3%	44%	19%	-17%	4%	0%	17%
60%	0%	38%	-6%	26%	19%	9%	42%	15%	-13%	0%	0%	13%
70%	0%	0%	-1%	19%	13%	17%	37%	12%	-7%	0%	0%	0%
80%	0%	0%	3%	13%	18%	4%	25%	5%	-12%	0%	6%	0%
90%	-13%	1%	0%	20%	13%	10%	18%	6%	-13%	0%	7%	0%
Long Term												
Full Simulation Period[b]	40%	36%	0%	5%	2%	0%	15%	13%	-9%	9%	2%	138%
Water Year Types[c]												
Wet (32%)	52%	29%	-3%	1%	0%	-2%	9%	11%	-8%	10%	1%	255%
Above Normal (16%)	32%	35%	8%	7%	-1%	-2%	21%	19%	-14%	11%	1%	195%
Below Normal (13%)	62%	50%	7%	22%	-1%	3%	31%	14%	-19%	17%	0%	4%
Dry (24%)	31%	59%	6%	20%	14%	13%	23%	13%	-7%	2%	6%	0%
Critical (15%)	6%	21%	15%	7%	24%	10%	18%	20%	0%	0%	1%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.12 X2 Position

Table 5C.3.3.12.1 X2, End of Month Position

No Action Alternative

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.4	93.6	90.8	84.0	77.3	75.9	78.1	81.0	83.1	86.5	89.7	91.9
20%	91.8	91.4	87.6	82.3	71.7	72.8	73.6	79.3	81.8	84.9	88.1	91.1
30%	91.6	90.9	83.9	79.8	67.2	65.7	70.0	77.3	81.0	84.3	87.5	90.6
40%	91.1	88.1	82.5	73.5	64.0	64.5	66.7	72.3	80.2	82.4	86.2	90.1
50%	89.7	81.1	81.1	71.2	58.5	59.9	64.7	69.9	77.8	80.6	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.2	58.0	60.9	66.3	76.6	78.1	84.6	81.0
70%	74.1	75.1	72.0	55.1	51.9	53.9	58.0	63.8	73.4	77.4	84.1	74.1
80%	74.0	74.0	62.2	51.3	49.4	50.6	53.8	59.1	69.8	76.8	82.7	74.0
90%	74.0	74.0	52.8	49.4	48.2	49.0	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	64.2	68.8	75.9	80.4	85.4	83.9
Water Year Types[c]												
Wet (32%)	73.9	72.9	71.1	54.8	51.2	53.1	55.1	58.4	67.4	74.9	82.7	73.9
Above Normal (16%)	81.0	79.3	75.9	61.0	54.9	55.3	59.1	65.2	75.3	77.9	83.1	74.7
Below Normal (13%)	89.1	87.6	78.8	74.6	64.3	66.9	69.0	72.9	79.1	81.1	85.1	89.3
Dry (24%)	91.5	86.9	75.4	77.7	67.7	65.4	68.8	74.5	80.1	84.5	87.6	90.5
Critical (15%)	93.6	93.6	87.8	82.0	75.3	74.6	77.7	82.3	85.2	87.9	90.3	92.1

Alternative 1

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.6	93.1	90.9	87.3	80.8	78.5	78.7	81.5	83.5	86.7	89.9	92.0
20%	91.9	91.4	90.6	85.8	75.6	73.6	75.2	79.5	81.6	84.8	88.6	91.5
30%	91.4	91.0	89.6	83.3	72.0	68.3	73.1	78.5	80.6	84.3	88.0	91.0
40%	91.0	90.8	88.6	78.8	66.2	66.5	69.7	75.3	78.7	82.0	86.6	90.1
50%	90.5	90.3	86.7	75.6	61.4	61.6	67.4	72.9	77.8	80.9	85.3	89.5
60%	90.3	89.6	82.5	67.7	55.7	57.8	64.1	69.2	76.2	79.1	84.7	89.0
70%	90.0	89.1	76.9	56.2	52.4	54.1	59.7	66.0	74.4	78.3	84.5	88.7
80%	89.6	88.0	65.9	52.0	49.3	50.4	54.7	60.2	71.4	77.3	84.0	88.4
90%	88.2	79.6	53.3	49.5	48.3	48.8	50.4	54.6	63.9	74.7	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.3	62.9	62.3	65.9	70.6	75.8	80.6	85.9	89.3
Water Year Types[c]												
Wet (32%)	87.8	84.8	75.8	55.7	51.6	53.0	56.4	60.2	67.2	75.2	83.3	86.7
Above Normal (16%)	90.3	87.9	80.5	63.6	56.0	55.2	61.2	67.9	75.1	78.2	83.8	81.9
Below Normal (13%)	89.4	88.6	80.6	78.7	66.4	67.6	71.3	74.9	78.2	81.3	85.9	89.7
Dry (24%)	91.2	87.2	76.9	81.1	70.8	67.5	70.7	75.9	80.2	84.4	88.1	90.9
Critical (15%)	93.1	93.4	89.8	83.6	78.1	76.7	78.8	83.3	85.7	88.2	90.6	92.3

Alternative 1 minus No Action Alternative

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.7	-0.5	0.1	3.3	3.5	2.6	0.5	0.5	0.3	0.2	0.2	0.1
20%	0.1	-0.1	3.0	3.6	3.9	0.8	1.6	0.3	-0.2	-0.1	0.5	0.4
30%	-0.2	0.1	5.6	3.5	4.8	2.5	3.1	1.3	-0.4	0.0	0.6	0.4
40%	-0.1	2.7	6.1	5.3	2.2	2.0	3.0	3.0	-1.5	-0.4	0.3	0.0
50%	0.8	9.2	5.6	4.4	3.0	1.7	2.7	3.0	0.0	0.3	0.5	1.1
60%	9.3	8.6	2.7	3.4	0.5	-0.2	3.3	2.9	-0.4	1.0	0.1	8.0
70%	15.9	14.0	5.0	1.1	0.5	0.2	1.7	2.2	1.0	0.9	0.4	14.6
80%	15.6	13.9	3.6	0.7	-0.1	-0.2	0.9	1.0	1.6	0.4	1.3	14.4
90%	14.2	5.6	0.5	0.1	0.1	-0.2	0.5	1.2	0.4	0.1	0.8	13.8
Long Term												
Full Simulation Period[b]	5.8	5.3	3.1	2.4	1.8	0.9	1.7	1.8	-0.1	0.2	0.5	5.4
Water Year Types[c]												
Wet	13.9	11.9	4.7	0.9	0.4	0.0	1.3	1.9	-0.1	0.4	0.5	12.7
Above Normal	9.3	8.6	4.5	2.6	1.1	0.0	2.1	2.7	-0.2	0.3	0.7	7.2
Below Normal	0.3	1.0	1.8	4.2	2.1	0.8	2.3	2.0	-0.9	0.2	0.8	0.4
Dry	-0.2	0.3	1.5	3.5	3.2	2.2	1.9	1.4	0.1	-0.1	0.4	0.3
Critical	-0.5	-0.2	2.0	1.6	2.9	2.2	1.2	0.9	0.5	0.3	0.3	0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) X2 is defined as the position of the 2% (grams of salt per kilogram of seawater) bottom salinity value along the axis of the estuary; measured in kilometers from the Golden Gate Bridge. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and And Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.12.2 X2, End of Month Position

Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.6	93.1	90.9	87.3	80.8	78.5	78.7	81.5	83.5	86.7	89.9	92.0
20%	91.9	91.4	90.6	85.8	75.6	73.6	75.2	79.5	81.6	84.8	88.6	91.5
30%	91.4	91.0	89.6	83.3	72.0	68.3	73.1	78.5	80.6	84.3	88.0	91.0
40%	91.0	90.8	88.6	78.8	66.2	66.5	69.7	75.3	78.7	82.0	86.6	90.1
50%	90.5	90.3	86.7	75.6	61.4	61.6	67.4	72.9	77.8	80.9	85.3	89.5
60%	90.3	89.6	82.5	67.7	55.7	57.8	64.1	69.2	76.2	79.1	84.7	89.0
70%	90.0	89.1	76.9	56.2	52.4	54.1	59.7	66.0	74.4	78.3	84.5	88.7
80%	89.6	88.0	65.9	52.0	49.3	50.4	54.7	60.2	71.4	77.3	84.0	88.4
90%	88.2	79.6	53.3	49.5	48.3	48.8	50.4	54.6	63.9	74.7	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.3	62.9	62.3	65.9	70.6	75.8	80.6	85.9	89.3
Water Year Types[c]												
Wet (32%)	87.8	84.8	75.8	55.7	51.6	53.0	56.4	60.2	67.2	75.2	83.3	86.7
Above Normal (16%)	90.3	87.9	80.5	63.6	56.0	55.2	61.2	67.9	75.1	78.2	83.8	81.9
Below Normal (13%)	89.4	88.6	80.6	78.7	66.4	67.6	71.3	74.9	78.2	81.3	85.9	89.7
Dry (24%)	91.2	87.2	76.9	81.1	70.8	67.5	70.7	75.9	80.2	84.4	88.1	90.9
Critical (15%)	93.1	93.4	89.8	83.6	78.1	76.7	78.8	83.3	85.7	88.2	90.6	92.3

No Action Alternative

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.4	93.6	90.8	84.0	77.3	75.9	78.1	81.0	83.1	86.5	89.7	91.9
20%	91.8	91.4	87.6	82.3	71.7	72.8	73.6	79.3	81.8	84.9	88.1	91.1
30%	91.6	90.9	83.9	79.8	67.2	65.7	70.0	77.3	81.0	84.3	87.5	90.6
40%	91.1	88.1	82.5	73.5	64.0	64.5	66.7	72.3	80.2	82.4	86.2	90.1
50%	89.7	81.1	81.1	71.2	58.5	59.9	64.7	69.9	77.8	80.6	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.2	58.0	60.9	66.3	76.6	78.1	84.6	81.0
70%	74.1	75.1	72.0	55.1	51.9	53.9	58.0	63.8	73.4	77.4	84.1	74.1
80%	74.0	74.0	62.2	51.3	49.4	50.6	53.8	59.1	69.8	76.8	82.7	74.0
90%	74.0	74.0	52.8	49.4	48.2	49.0	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	64.2	68.8	75.9	80.4	85.4	83.9
Water Year Types[c]												
Wet (32%)	73.9	72.9	71.1	54.8	51.2	53.1	55.1	58.4	67.4	74.9	82.7	73.9
Above Normal (16%)	81.0	79.3	75.9	61.0	54.9	55.3	59.1	65.2	75.3	77.9	83.1	74.7
Below Normal (13%)	89.1	87.6	78.8	74.6	64.3	66.9	69.0	72.9	79.1	81.1	85.1	89.3
Dry (24%)	91.5	86.9	75.4	77.7	67.7	65.4	68.8	74.5	80.1	84.5	87.6	90.5
Critical (15%)	93.6	93.6	87.8	82.0	75.3	74.6	77.7	82.3	85.2	87.9	90.3	92.1

No Action Alternative minus Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.7**	**0.5**	-0.1	-3.3	-3.5	-2.6	-0.5	-0.5	-0.3	-0.2	-0.2	-0.1
20%	-0.1	**0.1**	-3.0	-3.6	-3.9	-0.8	-1.6	-0.3	**0.2**	**0.1**	-0.5	-0.4
30%	**0.2**	-0.1	-5.6	-3.5	-4.8	-2.5	-3.1	-1.3	**0.4**	0.0	-0.6	-0.4
40%	**0.1**	-2.7	-6.1	-5.3	-2.2	-2.0	-3.0	-3.0	**1.5**	**0.4**	-0.3	0.0
50%	-0.8	-9.2	-5.6	-4.4	-3.0	-1.7	-2.7	-3.0	0.0	-0.3	-0.5	-1.1
60%	-9.3	-8.6	-2.7	-3.4	-0.5	**0.2**	-3.3	-2.9	**0.4**	-1.0	-0.1	-8.0
70%	-15.9	-14.0	-5.0	-1.1	-0.5	-0.2	-1.7	-2.2	-1.0	-0.9	-0.4	-14.6
80%	-15.6	-13.9	-3.6	-0.7	**0.1**	**0.2**	-0.9	-1.0	-1.6	-0.4	-1.3	-14.4
90%	-14.2	-5.6	-0.5	-0.1	-0.1	**0.2**	-0.5	-1.2	-0.4	-0.1	-0.8	-13.8
Long Term												
Full Simulation Period[b]	-5.8	-5.3	-3.1	-2.4	-1.8	-0.9	-1.7	-1.8	**0.1**	-0.2	-0.5	-5.4
Water Year Types[c]												
Wet	-13.9	-11.9	-4.7	-0.9	-0.4	**0.0**	-1.3	-1.9	**0.1**	-0.4	-0.5	-12.7
Above Normal	-9.3	-8.6	-4.5	-2.6	-1.1	**0.0**	-2.1	-2.7	**0.2**	-0.3	-0.7	-7.2
Below Normal	-0.3	-1.0	-1.8	-4.2	-2.1	-0.8	-2.3	-2.0	**0.9**	-0.2	-0.8	-0.4
Dry	**0.2**	-0.3	-1.5	-3.5	-3.2	-2.2	-1.9	-1.4	-0.1	**0.1**	-0.4	-0.3
Critical	**0.5**	**0.2**	-2.0	-1.6	-2.9	-2.2	-1.2	-0.9	-0.5	-0.3	-0.3	-0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) X2 is defined as the position of the 2% (grams of salt per kilogram of seawater) bottom salinity value along the axis of the estuary; measured in kilometers from the Golden Gate Bridge. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.12.3 X2, End of Month Position

Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.6	93.1	90.9	87.3	80.8	78.5	78.7	81.5	83.5	86.7	89.9	92.0
20%	91.9	91.4	90.6	85.8	75.6	73.6	75.2	79.5	81.6	84.8	88.6	91.5
30%	91.4	91.0	89.6	83.3	72.0	68.3	73.1	78.5	80.6	84.3	88.0	91.0
40%	91.0	90.8	88.6	78.8	66.2	66.5	69.7	75.3	78.7	82.0	86.6	90.1
50%	90.5	90.3	86.7	75.6	61.4	61.6	67.4	72.9	77.8	80.9	85.3	89.5
60%	90.3	89.6	82.5	67.7	55.7	57.8	64.1	69.2	76.2	79.1	84.7	89.0
70%	90.0	89.1	76.9	56.2	52.4	54.1	59.7	66.0	74.4	78.3	84.5	88.7
80%	89.6	88.0	65.9	52.0	49.3	50.4	54.7	60.2	71.4	77.3	84.0	88.4
90%	88.2	79.6	53.3	49.5	48.3	48.8	50.4	54.6	63.9	74.7	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.3	62.9	62.3	65.9	70.6	75.8	80.6	85.9	89.3
Water Year Types[c]												
Wet (32%)	87.8	84.8	75.8	55.7	51.6	53.0	56.4	60.2	67.2	75.2	83.3	86.7
Above Normal (16%)	90.3	87.9	80.5	63.6	56.0	55.2	61.2	67.9	75.1	78.2	83.8	81.9
Below Normal (13%)	89.4	88.6	80.6	78.7	66.4	67.6	71.3	74.9	78.2	81.3	85.9	89.7
Dry (24%)	91.2	87.2	76.9	81.1	70.8	67.5	70.7	75.9	80.2	84.4	88.1	90.9
Critical (15%)	93.1	93.4	89.8	83.6	78.1	76.7	78.8	83.3	85.7	88.2	90.6	92.3

Alternative 3

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.2	93.6	90.8	86.1	77.8	75.8	78.2	81.5	83.2	86.4	90.0	92.2
20%	91.9	91.5	90.5	83.7	71.7	72.5	74.6	79.6	82.0	84.8	88.4	91.3
30%	91.6	91.1	89.4	81.5	67.6	66.1	71.3	78.4	81.0	84.3	87.7	90.8
40%	91.2	90.8	88.5	74.8	64.1	64.5	69.7	75.6	80.3	81.7	86.0	89.8
50%	90.7	90.6	86.7	71.8	58.8	60.0	67.3	73.1	78.8	80.7	84.9	89.3
60%	90.2	89.8	82.6	64.6	54.4	58.0	63.6	70.4	77.1	78.4	84.6	88.7
70%	89.9	89.0	74.2	55.1	52.2	54.4	59.9	66.8	75.1	77.8	84.2	88.4
80%	89.6	87.9	65.1	51.2	49.3	50.4	54.8	61.7	71.8	77.1	83.2	88.2
90%	88.2	79.6	53.0	49.5	48.1	48.8	50.4	54.8	64.9	75.0	82.4	87.6
Long Term												
Full Simulation Period[b]	90.1	87.8	79.0	68.5	61.2	61.4	65.5	70.8	76.5	80.5	85.6	89.1
Water Year Types[c]												
Wet (32%)	87.8	84.8	75.3	54.8	51.3	53.1	56.5	60.8	68.3	75.1	82.9	86.6
Above Normal (16%)	90.3	88.0	80.0	61.5	54.9	55.0	60.9	68.4	76.2	78.0	83.4	81.8
Below Normal (13%)	89.2	88.8	80.2	75.4	64.0	66.6	70.5	74.9	79.6	81.0	85.1	89.2
Dry (24%)	91.4	87.4	76.4	78.8	67.9	65.5	69.9	76.0	80.4	84.3	87.8	90.8
Critical (15%)	93.4	93.7	89.3	82.7	75.6	74.6	78.1	82.8	85.4	88.0	90.5	92.3

Alternative 3 minus Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.5**	**0.5**	-0.1	-1.2	-3.0	-2.7	-0.5	-0.1	-0.3	-0.3	**0.1**	**0.2**
20%	**0.1**	**0.1**	-0.1	-2.2	-3.9	-1.1	-0.6	**0.1**	**0.4**	0.0	-0.2	-0.2
30%	**0.2**	**0.1**	-0.1	-1.8	-4.4	-2.1	-1.8	-0.1	**0.4**	0.0	-0.4	-0.2
40%	**0.2**	**0.0**	-0.2	-4.0	-2.0	-2.1	**0.0**	**0.3**	**1.6**	-0.3	-0.5	-0.3
50%	**0.2**	**0.3**	0.0	-3.9	-2.6	-1.6	-0.2	**0.3**	**1.0**	-0.3	-0.4	-0.2
60%	-0.1	**0.1**	**0.2**	-3.1	-1.3	**0.2**	-0.5	**1.2**	**0.9**	-0.7	-0.1	-0.3
70%	-0.1	-0.1	-2.7	-1.1	-0.2	**0.2**	**0.2**	**0.8**	**0.7**	-0.5	-0.2	-0.2
80%	0.0	-0.1	-0.8	-0.8	**0.0**	**0.1**	**0.1**	**1.5**	**0.3**	-0.2	-0.8	-0.2
90%	**0.0**	**0.0**	-0.3	**0.0**	-0.2	0.0	0.0	**0.2**	**1.0**	**0.2**	-0.6	-0.1
Long Term												
Full Simulation Period[b]	**0.1**	**0.1**	-0.5	-1.8	-1.7	-1.0	-0.4	**0.2**	**0.7**	-0.2	-0.3	-0.2
Water Year Types[c]												
Wet	**0.0**	**0.0**	-0.4	-0.9	-0.3	**0.1**	**0.1**	**0.5**	**1.1**	-0.1	-0.4	-0.1
Above Normal	0.0	**0.1**	-0.5	-2.1	-1.1	-0.2	-0.2	**0.5**	**1.1**	-0.2	-0.4	-0.1
Below Normal	-0.2	**0.2**	-0.5	-3.4	-2.4	-1.1	-0.8	**0.1**	**1.4**	-0.3	-0.7	-0.5
Dry	**0.2**	**0.2**	-0.5	-2.4	-2.9	-2.1	-0.8	**0.1**	**0.3**	-0.2	-0.2	-0.1
Critical	**0.4**	**0.3**	-0.6	-0.9	-2.5	-2.1	-0.7	-0.4	-0.3	-0.2	-0.1	0.0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) X2 is defined as the position of the 2% (grams of salt per kilogram of seawater) bottom salinity value along the axis of the estuary; measured in kilometers from the Golden Gate Bridge. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.12.4 X2, End of Month Position

Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	92.6	93.1	90.9	87.3	80.8	78.5	78.7	81.5	83.5	86.7	89.9	92.0
20%	91.9	91.4	90.6	85.8	75.6	73.6	75.2	79.5	81.6	84.8	88.6	91.5
30%	91.4	91.0	89.6	83.3	72.0	68.3	73.1	78.5	80.6	84.3	88.0	91.0
40%	91.0	90.8	88.6	78.8	66.2	66.5	69.7	75.3	78.7	82.0	86.6	90.1
50%	90.5	90.3	86.7	75.6	61.4	61.6	67.4	72.9	77.8	80.9	85.3	89.5
60%	90.3	89.6	82.5	67.7	55.7	57.8	64.1	69.2	76.2	79.1	84.7	89.0
70%	90.0	89.1	76.9	56.2	52.4	54.1	59.7	66.0	74.4	78.3	84.5	88.7
80%	89.6	88.0	65.9	52.0	49.3	50.4	54.7	60.2	71.4	77.3	84.0	88.4
90%	88.2	79.6	53.3	49.5	48.3	48.8	50.4	54.6	63.9	74.7	83.0	87.8
Long Term												
Full Simulation Period[b]	90.0	87.6	79.5	70.3	62.9	62.3	65.9	70.6	75.8	80.6	85.9	89.3
Water Year Types[c]												
Wet (32%)	87.8	84.8	75.8	55.7	51.6	53.0	56.4	60.2	67.2	75.2	83.3	86.7
Above Normal (16%)	90.3	87.9	80.5	63.6	56.0	55.2	61.2	67.9	75.1	78.2	83.8	81.9
Below Normal (13%)	89.4	88.6	80.6	78.7	66.4	67.6	71.3	74.9	78.2	81.3	85.9	89.7
Dry (24%)	91.2	87.2	76.9	81.1	70.8	67.5	70.7	75.9	80.2	84.4	88.1	90.9
Critical (15%)	93.1	93.4	89.8	83.6	78.1	76.7	78.8	83.3	85.7	88.2	90.6	92.3

Alternative 5

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	93.2	93.3	90.8	84.0	77.3	75.9	77.2	79.1	83.1	86.5	89.6	91.9
20%	91.9	91.5	87.6	82.3	71.7	72.8	72.5	77.9	81.4	84.9	88.1	91.1
30%	91.6	91.0	83.9	79.8	67.2	65.8	69.5	75.8	81.0	84.2	87.4	90.5
40%	91.0	88.0	82.4	73.5	63.9	64.5	66.4	71.5	79.6	82.3	86.1	90.0
50%	89.5	81.1	81.2	71.2	58.5	59.9	64.2	69.3	77.8	80.7	84.8	88.5
60%	81.0	81.0	79.7	64.4	55.1	57.9	60.8	66.4	76.6	78.2	84.6	81.0
70%	74.1	75.1	71.9	55.1	51.9	53.9	58.0	63.7	73.4	77.5	84.1	74.1
80%	74.0	74.1	62.2	51.3	49.4	50.6	53.5	58.9	69.8	76.8	82.6	74.0
90%	74.0	73.9	53.0	49.4	48.2	49.1	49.9	53.3	63.5	74.6	82.2	74.0
Long Term												
Full Simulation Period[b]	84.2	82.3	76.4	68.0	61.1	61.4	63.8	68.2	75.7	80.4	85.3	83.8
Water Year Types[c]												
Wet (32%)	73.9	72.9	71.1	54.7	51.2	53.1	55.1	58.2	67.3	74.7	82.6	73.9
Above Normal (16%)	81.0	79.2	75.9	60.9	54.9	55.3	59.0	65.0	75.2	77.9	83.1	74.8
Below Normal (13%)	89.1	87.2	78.6	74.6	64.3	66.9	68.4	72.1	79.0	81.1	85.0	89.3
Dry (24%)	91.4	87.0	75.4	77.7	67.7	65.4	67.9	73.4	79.8	84.5	87.6	90.5
Critical (15%)	93.5	93.5	87.9	82.1	75.5	74.6	76.7	80.8	84.5	87.7	90.2	92.1

Alternative 5 minus Second Basis of Comparison

	End of Month Position (km)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**0.6**	**0.2**	-0.1	-3.2	-3.5	-2.6	-1.5	-2.4	-0.4	-0.2	-0.3	-0.1
20%	0.0	**0.1**	-3.0	-3.6	-3.9	-0.8	-2.7	-1.6	-0.2	**0.1**	-0.4	-0.4
30%	**0.2**	**0.0**	-5.6	-3.5	-4.8	-2.5	-3.6	-2.7	**0.4**	-0.1	-0.6	-0.5
40%	**0.0**	-2.8	-6.3	-5.3	-2.2	-2.0	-3.2	-3.8	**0.9**	**0.3**	-0.5	-0.1
50%	-1.0	-9.2	-5.6	-4.4	-3.0	-1.7	-3.2	-3.5	0.0	-0.2	-0.5	-1.1
60%	-9.3	-8.7	-2.7	-3.3	-0.6	**0.1**	-3.4	-2.8	**0.3**	-0.9	-0.1	-8.0
70%	-16.0	-14.0	-5.1	-1.1	-0.5	-0.2	-1.7	-2.3	-1.0	-0.8	-0.4	-14.6
80%	-15.6	-13.9	-3.6	-0.8	**0.1**	**0.2**	-1.2	-1.3	-1.6	-0.5	-1.4	-14.4
90%	-14.2	-5.6	-0.3	-0.1	-0.1	**0.3**	-0.5	-1.2	-0.4	-0.1	-0.8	-13.8
Long Term												
Full Simulation Period[b]	-5.8	-5.4	-3.1	-2.3	-1.7	-0.9	-2.1	-2.4	-0.1	-0.3	-0.6	-5.4
Water Year Types[c]												
Wet	-13.9	-11.9	-4.7	-1.0	-0.4	**0.0**	-1.3	-2.0	**0.1**	-0.5	-0.6	-12.7
Above Normal	-9.3	-8.6	-4.5	-2.6	-1.1	**0.0**	-2.1	-2.9	**0.1**	-0.3	-0.7	-7.1
Below Normal	-0.3	-1.4	-2.0	-4.2	-2.1	-0.7	-2.9	-2.8	**0.8**	-0.2	-0.9	-0.4
Dry	**0.2**	-0.2	-1.5	-3.4	-3.1	-2.1	-2.8	-2.5	-0.3	**0.1**	-0.5	-0.4
Critical	**0.4**	**0.1**	-2.0	-1.5	-2.7	-2.1	-2.1	-2.5	-1.2	-0.5	-0.4	-0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) X2 is defined as the position of the 2% (grams of salt per kilogram of seawater) bottom salinity value along the axis of the estuary; measured in kilometers from the Golden Gate Bridge. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.13 Delta Outflow

Table 5C.3.3.13.1 Old and Middle River, Monthly Flow

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,764	-3,724	-3,812	-2,823	-666	-969	3,205	2,797	-1,150	-4,130	-2,453	-3,775
20%	-4,076	-4,560	-4,673	-2,823	-1,771	-1,394	2,207	1,304	-1,570	-6,849	-4,032	-5,147
30%	-4,613	-5,156	-5,244	-3,355	-2,823	-2,738	1,632	561	-3,500	-7,647	-5,770	-6,006
40%	-4,820	-5,627	-5,871	-4,392	-3,314	-3,500	1,268	108	-3,500	-8,888	-7,996	-7,621
50%	-5,328	-6,320	-5,871	-4,710	-3,781	-3,500	612	-182	-3,500	-9,376	-9,956	-9,000
60%	-5,589	-6,564	-5,871	-5,000	-4,878	-4,568	-102	-483	-4,487	-9,746	-10,630	-9,256
70%	-6,253	-7,101	-7,413	-5,000	-5,000	-5,000	-448	-632	-5,000	-10,301	-10,737	-9,653
80%	-6,560	-8,185	-9,537	-5,000	-5,000	-5,000	-995	-1,129	-5,000	-10,602	-10,853	-9,884
90%	-7,404	-9,995	-9,681	-5,000	-5,000	-5,000	-1,247	-1,414	-5,000	-11,108	-11,083	-10,032
Long Term												
Full Simulation Period[b]	-5,476	-6,380	-6,228	-3,535	-2,905	-2,690	919	310	-3,577	-8,496	-7,975	-7,706
Water Year Types[c]												
Wet (32%)	-5,847	-7,229	-5,526	-1,900	-1,991	-1,552	3,110	2,011	-4,274	-8,957	-10,532	-9,358
Above Normal (16%)	-5,525	-6,801	-6,850	-3,699	-3,161	-4,176	1,196	412	-4,525	-9,151	-10,873	-9,542
Below Normal (13%)	-5,488	-6,749	-7,669	-4,380	-3,477	-3,919	165	-316	-3,445	-10,539	-9,624	-8,178
Dry (24%)	-5,440	-5,953	-6,676	-4,621	-3,573	-3,072	-670	-906	-3,350	-8,900	-4,745	-6,453
Critical (15%)	-4,671	-4,458	-5,006	-4,314	-2,968	-1,780	-786	-887	-1,539	-4,242	-3,168	-3,793

Alternative 1

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,392	-4,293	-4,109	-2,581	-1,241	-119	-2,051	-1,611	-2,184	-3,454	-2,880	-3,666
20%	-4,079	-5,433	-6,043	-4,838	-2,865	-1,287	-3,131	-2,897	-2,834	-5,152	-4,631	-5,107
30%	-4,769	-6,994	-6,917	-6,279	-4,367	-3,292	-3,957	-4,177	-3,308	-6,488	-5,837	-6,393
40%	-6,409	-7,620	-7,554	-7,434	-5,806	-4,012	-4,821	-4,673	-4,258	-7,155	-6,876	-8,264
50%	-7,303	-8,686	-8,173	-8,257	-6,422	-4,958	-5,864	-5,200	-4,990	-8,014	-7,941	-9,257
60%	-8,076	-9,256	-8,969	-8,848	-7,346	-5,373	-6,549	-5,517	-5,660	-8,914	-9,236	-9,689
70%	-9,075	-9,598	-9,326	-9,269	-8,323	-6,205	-7,131	-6,008	-6,016	-9,492	-10,081	-9,977
80%	-9,905	-9,959	-9,508	-9,585	-8,873	-6,616	-7,635	-6,451	-6,534	-10,052	-10,364	-10,089
90%	-10,146	-10,023	-9,665	-9,803	-9,509	-7,592	-7,991	-7,302	-6,936	-10,637	-10,683	-10,163
Long Term												
Full Simulation Period[b]	-6,980	-7,844	-7,429	-6,650	-5,206	-3,727	-5,381	-4,842	-4,611	-7,538	-7,489	-7,917
Water Year Types[c]												
Wet (32%)	-8,038	-9,112	-7,723	-4,985	-3,160	-1,004	-6,895	-6,376	-4,024	-8,414	-9,609	-9,678
Above Normal (16%)	-6,419	-7,887	-7,960	-8,266	-6,089	-5,331	-7,034	-5,761	-6,024	-8,921	-9,947	-9,886
Below Normal (13%)	-8,051	-8,891	-8,088	-8,590	-5,749	-5,501	-5,370	-4,954	-6,578	-10,111	-8,035	-8,118
Dry (24%)	-6,466	-7,140	-7,171	-7,358	-6,832	-5,646	-4,159	-3,813	-4,591	-6,827	-5,191	-6,639
Critical (15%)	-5,171	-5,266	-6,040	-5,551	-5,474	-3,067	-2,358	-2,134	-2,583	-2,973	-3,561	-3,911

Alternative 1 minus No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	373	-569	-298	241	-575	850	-5,257	-4,408	-1,033	675	-426	109
20%	-3	-873	-1,370	-2,015	-1,094	107	-5,338	-4,202	-1,264	1,697	-599	39
30%	-156	-1,838	-1,673	-2,924	-1,545	-554	-5,589	-4,738	192	1,159	-67	-387
40%	-1,588	-1,993	-1,683	-3,042	-2,492	-512	-6,090	-4,781	-758	1,733	1,120	-644
50%	-1,975	-2,366	-2,302	-3,548	-2,641	-1,458	-6,475	-5,018	-1,490	1,362	2,016	-257
60%	-2,487	-2,692	-3,098	-3,848	-2,467	-806	-6,447	-5,034	-1,173	831	1,394	-433
70%	-2,822	-2,497	-1,913	-4,269	-3,323	-1,205	-6,682	-5,376	-1,016	809	656	-325
80%	-3,345	-1,773	29	-4,585	-3,873	-1,616	-6,640	-5,322	-1,534	550	489	-205
90%	-2,742	-28	16	-4,803	-4,509	-2,592	-6,744	-5,887	-1,936	471	400	-132
Long Term												
Full Simulation Period[b]	-1,504	-1,464	-1,201	-3,115	-2,301	-1,037	-6,300	-5,152	-1,034	958	486	-211
Water Year Types[c]												
Wet (32%)	-2,191	-1,882	-2,198	-3,084	-1,169	549	-10,005	-8,387	250	543	923	-320
Above Normal (16%)	-895	-1,086	-1,110	-4,566	-2,928	-1,155	-8,229	-6,173	-1,499	230	926	-344
Below Normal (13%)	-2,563	-2,142	-419	-4,210	-2,273	-1,582	-5,535	-4,638	-3,133	429	1,589	59
Dry (24%)	-1,026	-1,187	-495	-2,737	-3,259	-2,574	-3,489	-2,907	-1,241	2,073	-446	-186
Critical (15%)	-500	-809	-1,034	-1,237	-2,505	-1,287	-1,572	-1,247	-1,044	1,268	-394	-118

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.13.2 Old and Middle River, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,392	-4,293	-4,109	-2,581	-1,241	-119	-2,051	-1,611	-2,184	-3,454	-2,880	-3,666
20%	-4,079	-5,433	-6,043	-4,838	-2,865	-1,287	-3,131	-2,897	-2,834	-5,152	-4,631	-5,107
30%	-4,769	-6,994	-6,917	-6,279	-4,367	-3,292	-3,957	-4,177	-3,308	-6,488	-5,837	-6,393
40%	-6,409	-7,620	-7,554	-7,434	-5,806	-4,012	-4,821	-4,673	-4,258	-7,155	-6,876	-8,264
50%	-7,303	-8,686	-8,173	-8,257	-6,422	-4,958	-5,864	-5,200	-4,990	-8,014	-7,941	-9,257
60%	-8,076	-9,256	-8,969	-8,848	-7,346	-5,373	-6,549	-5,517	-5,660	-8,914	-9,236	-9,689
70%	-9,075	-9,598	-9,326	-9,269	-8,323	-6,205	-7,131	-6,008	-6,016	-9,492	-10,081	-9,977
80%	-9,905	-9,959	-9,508	-9,585	-8,873	-6,616	-7,635	-6,451	-6,534	-10,052	-10,364	-10,089
90%	-10,146	-10,023	-9,665	-9,803	-9,509	-7,592	-7,991	-7,302	-6,936	-10,637	-10,683	-10,163
Long Term												
Full Simulation Period[b]	-6,980	-7,844	-7,429	-6,650	-5,206	-3,727	-5,381	-4,842	-4,611	-7,538	-7,489	-7,917
Water Year Types[c]												
Wet (32%)	-8,038	-9,112	-7,723	-4,985	-3,160	-1,004	-6,895	-6,376	-4,024	-8,414	-9,609	-9,678
Above Normal (16%)	-6,419	-7,887	-7,960	-8,266	-6,089	-5,331	-7,034	-5,761	-6,024	-8,921	-9,947	-9,886
Below Normal (13%)	-8,051	-8,891	-8,088	-8,590	-5,749	-5,501	-5,370	-4,954	-6,578	-10,111	-8,035	-8,118
Dry (24%)	-6,466	-7,140	-7,171	-7,358	-6,832	-5,646	-4,159	-3,813	-4,591	-6,827	-5,191	-6,639
Critical (15%)	-5,171	-5,266	-6,040	-5,551	-5,474	-3,067	-2,358	-2,134	-2,583	-2,973	-3,561	-3,911

No Action Alternative

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,764	-3,724	-3,812	-2,823	-666	-969	3,205	2,797	-1,150	-4,130	-2,453	-3,775
20%	-4,076	-4,560	-4,673	-2,823	-1,771	-1,394	2,207	1,304	-1,570	-6,849	-4,032	-5,147
30%	-4,613	-5,156	-5,244	-3,355	-2,823	-2,738	1,632	561	-3,500	-7,647	-5,770	-6,006
40%	-4,820	-5,627	-5,871	-4,392	-3,314	-3,500	1,268	108	-3,500	-8,888	-7,996	-7,621
50%	-5,328	-6,320	-5,871	-4,710	-3,781	-3,500	612	-182	-3,500	-9,376	-9,956	-9,000
60%	-5,589	-6,564	-5,871	-5,000	-4,878	-4,568	-102	-483	-4,487	-9,746	-10,630	-9,256
70%	-6,253	-7,101	-7,413	-5,000	-5,000	-5,000	-448	-632	-5,000	-10,301	-10,737	-9,653
80%	-6,560	-8,185	-9,537	-5,000	-5,000	-5,000	-995	-1,129	-5,000	-10,602	-10,853	-9,884
90%	-7,404	-9,995	-9,681	-5,000	-5,000	-5,000	-1,247	-1,414	-5,000	-11,108	-11,083	-10,032
Long Term												
Full Simulation Period[b]	-5,476	-6,380	-6,228	-3,535	-2,905	-2,690	919	310	-3,577	-8,496	-7,975	-7,706
Water Year Types[c]												
Wet (32%)	-5,847	-7,229	-5,526	-1,900	-1,991	-1,552	3,110	2,011	-4,274	-8,957	-10,532	-9,358
Above Normal (16%)	-5,525	-6,801	-6,850	-3,699	-3,161	-4,176	1,196	412	-4,525	-9,151	-10,873	-9,542
Below Normal (13%)	-5,488	-6,749	-7,669	-4,380	-3,477	-3,919	165	-316	-3,445	-10,539	-9,624	-8,178
Dry (24%)	-5,440	-5,953	-6,676	-4,621	-3,573	-3,072	-670	-906	-3,350	-8,900	-4,745	-6,453
Critical (15%)	-4,671	-4,458	-5,006	-4,314	-2,968	-1,780	-786	-887	-1,539	-4,242	-3,168	-3,793

No Action Alternative minus Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-373**	569	298	**-241**	575	**-850**	5,257	4,408	1,033	**-675**	426	**-109**
20%	3	873	1,370	2,015	1,094	**-107**	5,338	4,202	1,264	**-1,697**	599	**-39**
30%	156	1,838	1,673	2,924	1,545	554	5,589	4,738	**-192**	**-1,159**	67	387
40%	1,588	1,993	1,683	3,042	2,492	512	6,090	4,781	758	**-1,733**	**-1,120**	644
50%	1,975	2,366	2,302	3,548	2,641	1,458	6,475	5,018	1,490	**-1,362**	**-2,016**	257
60%	2,487	2,692	3,098	3,848	2,467	806	6,447	5,034	1,173	**-831**	**-1,394**	433
70%	2,822	2,497	1,913	4,269	3,323	1,205	6,682	5,376	1,016	**-809**	**-656**	325
80%	3,345	1,773	**-29**	4,585	3,873	1,616	6,640	5,322	1,534	**-550**	**-489**	205
90%	2,742	28	**-16**	4,803	4,509	2,592	6,744	5,887	1,936	**-471**	**-400**	132
Long Term												
Full Simulation Period[b]	1,504	1,464	1,201	3,115	2,301	1,037	6,300	5,152	1,034	**-958**	**-486**	211
Water Year Types[c]												
Wet (32%)	2,191	1,882	2,198	3,084	1,169	**-549**	10,005	8,387	**-250**	**-543**	**-923**	320
Above Normal (16%)	895	1,086	1,110	4,566	2,928	1,155	8,229	6,173	1,499	**-230**	**-926**	344
Below Normal (13%)	2,563	2,142	419	4,210	2,273	1,582	5,535	4,638	3,133	**-429**	**-1,589**	**-59**
Dry (24%)	1,026	1,187	495	2,737	3,259	2,574	3,489	2,907	1,241	**-2,073**	446	186
Critical (15%)	500	809	1,034	1,237	2,505	1,287	1,572	1,247	1,044	**-1,268**	394	118

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.13.3 Old and Middle River, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,392	-4,293	-4,109	-2,581	-1,241	-119	-2,051	-1,611	-2,184	-3,454	-2,880	-3,666
20%	-4,079	-5,433	-6,043	-4,838	-2,865	-1,287	-3,131	-2,897	-2,834	-5,152	-4,631	-5,107
30%	-4,769	-6,994	-6,917	-6,279	-4,367	-3,292	-3,957	-4,177	-3,308	-6,488	-5,837	-6,393
40%	-6,409	-7,620	-7,554	-7,434	-5,806	-4,012	-4,821	-4,673	-4,258	-7,155	-6,876	-8,264
50%	-7,303	-8,686	-8,173	-8,257	-6,422	-4,958	-5,864	-5,200	-4,990	-8,014	-7,941	-9,257
60%	-8,076	-9,256	-8,969	-8,848	-7,346	-5,373	-6,549	-5,517	-5,660	-8,914	-9,236	-9,689
70%	-9,075	-9,598	-9,326	-9,269	-8,323	-6,205	-7,131	-6,008	-6,016	-9,492	-10,081	-9,977
80%	-9,905	-9,959	-9,508	-9,585	-8,873	-6,616	-7,635	-6,451	-6,534	-10,052	-10,364	-10,089
90%	-10,146	-10,023	-9,665	-9,803	-9,509	-7,592	-7,991	-7,302	-6,936	-10,637	-10,683	-10,163
Long Term												
Full Simulation Period[b]	-6,980	-7,844	-7,429	-6,650	-5,206	-3,727	-5,381	-4,842	-4,611	-7,538	-7,489	-7,917
Water Year Types[c]												
Wet (32%)	-8,038	-9,112	-7,723	-4,985	-3,160	-1,004	-6,895	-6,376	-4,024	-8,414	-9,609	-9,678
Above Normal (16%)	-6,419	-7,887	-7,960	-8,266	-6,089	-5,331	-7,034	-5,761	-6,024	-8,921	-9,947	-9,886
Below Normal (13%)	-8,051	-8,891	-8,088	-8,590	-5,749	-5,501	-5,370	-4,954	-6,578	-10,111	-8,035	-8,118
Dry (24%)	-6,466	-7,140	-7,171	-7,358	-6,832	-5,646	-4,159	-3,813	-4,591	-6,827	-5,191	-6,639
Critical (15%)	-5,171	-5,266	-6,040	-5,551	-5,474	-3,067	-2,358	-2,134	-2,583	-2,973	-3,561	-3,911

Alternative 3

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,471	-4,154	-3,935	-2,361	-447	-819	405	-673	-2,098	-3,660	-3,007	-3,495
20%	-4,101	-5,233	-5,184	-3,500	-1,896	-1,347	-946	-1,150	-4,287	-5,775	-4,278	-5,225
30%	-4,803	-6,947	-6,403	-3,500	-2,838	-2,283	-1,200	-1,150	-4,625	-7,093	-6,258	-6,437
40%	-5,638	-7,541	-6,403	-3,500	-3,500	-3,500	-2,086	-2,560	-5,017	-8,012	-7,669	-8,402
50%	-7,049	-8,326	-6,403	-5,000	-3,500	-3,500	-2,787	-3,326	-5,526	-8,990	-9,396	-9,192
60%	-8,252	-9,400	-6,811	-5,000	-4,273	-3,616	-3,368	-3,500	-5,750	-9,549	-9,845	-9,680
70%	-8,982	-9,810	-7,677	-5,000	-5,000	-5,061	-3,526	-3,500	-5,750	-10,046	-10,212	-9,842
80%	-9,734	-9,990	-8,823	-5,000	-5,621	-6,252	-4,031	-4,451	-6,160	-10,767	-10,624	-10,044
90%	-10,085	-10,084	-9,552	-6,976	-7,500	-7,499	-4,474	-5,149	-7,011	-11,148	-10,797	-10,177
Long Term												
Full Simulation Period[b]	-6,888	-7,771	-6,494	-3,764	-3,283	-3,072	-2,176	-2,623	-4,997	-8,112	-7,831	-7,917
Water Year Types[c]												
Wet (32%)	-7,965	-9,052	-5,964	-2,522	-2,581	-1,646	-1,367	-2,399	-5,476	-8,581	-9,731	-9,555
Above Normal (16%)	-6,452	-8,078	-6,997	-3,789	-4,137	-5,220	-3,630	-4,226	-5,981	-9,160	-10,444	-9,839
Below Normal (13%)	-7,685	-8,790	-7,868	-4,451	-3,689	-4,765	-2,676	-2,885	-5,409	-10,929	-10,032	-8,880
Dry (24%)	-6,546	-7,086	-6,848	-4,588	-3,582	-3,358	-2,517	-2,670	-4,927	-8,172	-5,079	-6,457
Critical (15%)	-4,869	-4,871	-5,252	-4,429	-3,011	-1,804	-1,328	-1,054	-2,628	-3,280	-3,450	-3,839

Alternative 3 minus Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-79	139	175	220	794	-701	2,456	938	85	-205	-127	172
20%	-22	200	858	1,338	969	-61	2,185	1,747	-1,453	-623	353	-118
30%	-34	47	514	2,779	1,529	1,009	2,757	3,027	-1,317	-605	-421	-43
40%	771	79	1,151	3,934	2,306	512	2,735	2,112	-759	-857	-793	-137
50%	254	360	1,769	3,257	2,922	1,458	3,077	1,874	-536	-976	-1,455	64
60%	-177	-144	2,158	3,848	3,072	1,757	3,181	2,017	-90	-635	-609	10
70%	93	-213	1,648	4,269	3,323	1,144	3,605	2,508	266	-553	-131	136
80%	171	-31	685	4,585	3,252	365	3,604	1,999	375	-715	-259	45
90%	61	-61	112	2,827	2,009	93	3,517	2,153	-75	-511	-114	-14
Long Term												
Full Simulation Period[b]	92	73	934	2,886	1,923	656	3,205	2,219	-386	-574	-342	0
Water Year Types[c]												
Wet (32%)	73	60	1,759	2,463	579	-642	5,528	3,977	-1,453	-167	-123	124
Above Normal (16%)	-32	-191	963	4,477	1,952	111	3,403	1,535	43	-240	-497	48
Below Normal (13%)	366	101	220	4,139	2,061	736	2,695	2,069	1,169	-818	-1,997	-762
Dry (24%)	-80	54	323	2,770	3,249	2,288	1,642	1,144	-336	-1,345	112	182
Critical (15%)	302	395	789	1,123	2,462	1,263	1,030	1,081	-45	-307	112	73

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.13.4 Old and Middle River, Monthly Flow

Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,392	-4,293	-4,109	-2,581	-1,241	-119	-2,051	-1,611	-2,184	-3,454	-2,880	-3,666
20%	-4,079	-5,433	-6,043	-4,838	-2,865	-1,287	-3,131	-2,897	-2,834	-5,152	-4,631	-5,107
30%	-4,769	-6,994	-6,917	-6,279	-4,367	-3,292	-3,957	-4,177	-3,308	-6,488	-5,837	-6,393
40%	-6,409	-7,620	-7,554	-7,434	-5,806	-4,012	-4,821	-4,673	-4,258	-7,155	-6,876	-8,264
50%	-7,303	-8,686	-8,173	-8,257	-6,422	-4,958	-5,864	-5,200	-4,990	-8,014	-7,941	-9,257
60%	-8,076	-9,256	-8,969	-8,848	-7,346	-5,373	-6,549	-5,517	-5,660	-8,914	-9,236	-9,689
70%	-9,075	-9,598	-9,326	-9,269	-8,323	-6,205	-7,131	-6,008	-6,016	-9,492	-10,081	-9,977
80%	-9,905	-9,959	-9,508	-9,585	-8,873	-6,616	-7,635	-6,451	-6,534	-10,052	-10,364	-10,089
90%	-10,146	-10,023	-9,665	-9,803	-9,509	-7,592	-7,991	-7,302	-6,936	-10,637	-10,683	-10,163
Long Term												
Full Simulation Period[b]	-6,980	-7,844	-7,429	-6,650	-5,206	-3,727	-5,381	-4,842	-4,611	-7,538	-7,489	-7,917
Water Year Types[c]												
Wet (32%)	-8,038	-9,112	-7,723	-4,985	-3,160	-1,004	-6,895	-6,376	-4,024	-8,414	-9,609	-9,678
Above Normal (16%)	-6,419	-7,887	-7,960	-8,266	-6,089	-5,331	-7,034	-5,761	-6,024	-8,921	-9,947	-9,886
Below Normal (13%)	-8,051	-8,891	-8,088	-8,590	-5,749	-5,501	-5,370	-4,954	-6,578	-10,111	-8,035	-8,118
Dry (24%)	-6,466	-7,140	-7,171	-7,358	-6,832	-5,646	-4,159	-3,813	-4,591	-6,827	-5,191	-6,639
Critical (15%)	-5,171	-5,266	-6,040	-5,551	-5,474	-3,067	-2,358	-2,134	-2,583	-2,973	-3,561	-3,911

Alternative 5

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3,722	-3,722	-3,826	-2,823	-641	-965	3,206	2,797	-1,150	-4,455	-3,295	-3,913
20%	-4,102	-4,558	-4,737	-2,823	-1,771	-1,394	2,134	1,335	-2,319	-6,620	-4,451	-5,247
30%	-4,583	-5,162	-5,150	-3,355	-2,820	-2,738	1,566	712	-3,500	-8,001	-6,361	-6,304
40%	-4,858	-5,603	-5,871	-4,378	-3,267	-3,500	1,270	568	-3,500	-9,172	-8,612	-7,552
50%	-5,145	-6,098	-5,871	-4,710	-3,513	-3,500	623	381	-3,500	-9,522	-10,244	-8,864
60%	-5,368	-6,494	-5,871	-5,000	-4,878	-4,568	381	381	-4,467	-9,822	-10,615	-9,232
70%	-6,237	-7,087	-7,453	-5,000	-5,000	-5,000	381	381	-5,000	-10,430	-10,756	-9,654
80%	-6,583	-8,086	-9,466	-5,000	-5,000	-5,000	381	381	-5,000	-10,694	-10,844	-9,915
90%	-7,355	-9,871	-9,681	-5,000	-5,000	-5,000	381	381	-5,000	-11,168	-11,076	-10,031
Long Term												
Full Simulation Period[b]	-5,443	-6,337	-6,246	-3,551	-2,904	-2,710	1,482	1,034	-3,631	-8,687	-8,239	-7,714
Water Year Types[c]												
Wet (32%)	-5,812	-7,354	-5,572	-1,900	-1,926	-1,598	3,122	2,182	-4,275	-8,965	-10,573	-9,193
Above Normal (16%)	-5,543	-6,368	-6,838	-3,716	-3,222	-4,174	1,292	780	-4,521	-9,187	-10,817	-9,491
Below Normal (13%)	-5,418	-6,748	-7,637	-4,380	-3,554	-3,971	718	468	-3,444	-10,623	-9,770	-8,460
Dry (24%)	-5,380	-5,893	-6,731	-4,620	-3,578	-3,074	565	453	-3,523	-9,446	-5,313	-6,571
Critical (15%)	-4,661	-4,461	-4,983	-4,409	-2,957	-1,770	363	310	-1,623	-4,501	-3,860	-3,805

Alternative 5 minus Second Basis of Comparison

	Monthly Flow (cfs)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-331**	571	284	**-241**	600	**-846**	5,257	4,408	1,033	**-1,001**	**-415**	**-247**
20%	**-23**	875	1,306	2,015	1,094	**-107**	5,265	4,233	516	**-1,468**	180	**-140**
30%	186	1,832	1,767	2,924	1,548	554	5,522	4,889	**-192**	**-1,514**	**-524**	89
40%	1,551	2,016	1,683	3,056	2,539	512	6,091	5,240	758	**-2,017**	**-1,736**	712
50%	2,158	2,588	2,302	3,548	2,909	1,458	6,487	5,582	1,490	**-1,507**	**-2,303**	393
60%	2,707	2,762	3,098	3,848	2,467	806	6,930	5,899	1,193	**-907**	**-1,378**	458
70%	2,838	2,511	1,873	4,269	3,323	1,205	7,512	6,390	1,016	**-937**	**-675**	323
80%	3,322	1,872	42	4,585	3,873	1,616	8,016	6,832	1,534	**-642**	**-479**	174
90%	2,791	152	**-16**	4,803	4,509	2,592	8,372	7,683	1,936	**-531**	**-393**	132
Long Term												
Full Simulation Period[b]	1,537	1,508	1,182	3,099	2,302	1,017	6,863	5,876	980	**-1,149**	**-750**	203
Water Year Types[c]												
Wet (32%)	2,226	1,758	2,151	3,084	1,234	**-595**	10,017	8,558	**-251**	**-552**	**-964**	485
Above Normal (16%)	876	1,519	1,122	4,550	2,867	1,158	8,325	6,541	1,503	**-266**	**-871**	395
Below Normal (13%)	2,633	2,144	450	4,210	2,196	1,530	6,088	5,422	3,134	**-512**	**-1,735**	**-342**
Dry (24%)	1,086	1,247	439	2,738	3,254	2,573	4,724	4,266	1,068	**-2,620**	**-122**	68
Critical (15%)	510	805	1,058	1,142	2,516	1,296	2,721	2,445	961	**-1,528**	**-298**	107

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.14 Exports through Jones and Banks Pumping Plants

Table 5C.3.3.14.1 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

No Action Alternative

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	517	671	721	604	611	675	242	240	509	714	724	671
20%	454	572	717	490	532	617	181	151	359	708	724	664
30%	434	479	685	427	448	508	158	127	340	694	715	651
40%	400	443	558	419	409	479	138	104	318	667	707	623
50%	370	415	494	406	380	424	128	97	253	634	692	604
60%	336	381	477	396	363	349	121	92	207	588	519	509
70%	310	347	454	377	325	312	113	92	192	501	371	410
80%	286	302	379	321	267	283	104	92	150	444	240	335
90%	250	251	335	280	165	159	89	92	43	232	141	243
Long Term												
Full Simulation Period[b]	378	430	527	426	395	423	154	140	276	558	521	514
Water Year Types[c]												
Wet (32%)	410	497	564	513	537	594	204	207	445	669	717	638
Above Normal (16%)	376	450	562	406	401	496	130	105	315	587	709	628
Below Normal (13%)	386	456	590	387	354	394	134	100	209	657	622	542
Dry (24%)	374	398	510	392	315	318	153	126	194	541	296	426
Critical (15%)	314	293	384	349	250	179	93	90	64	223	176	242

Alternative 1

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	739	803	727	703	526	515	555	694	694	671
20%	680	671	724	769	686	608	503	420	455	694	694	671
30%	627	652	719	747	668	560	477	387	425	680	694	671
40%	553	623	718	741	614	542	427	351	412	624	634	669
50%	489	591	683	730	552	509	390	319	389	551	515	635
60%	433	513	601	635	519	486	321	281	361	474	446	545
70%	318	464	553	565	465	461	258	242	320	404	369	420
80%	273	352	500	499	416	374	188	181	176	300	281	340
90%	209	288	378	391	335	304	109	80	128	160	161	226
Long Term												
Full Simulation Period[b]	471	525	612	638	538	489	351	308	352	494	489	528
Water Year Types[c]												
Wet (32%)	549	619	716	724	609	543	476	430	456	632	655	660
Above Normal (16%)	428	521	641	716	584	570	453	363	415	572	647	651
Below Normal (13%)	548	595	623	674	497	500	337	304	414	629	517	539
Dry (24%)	435	475	546	579	518	493	259	228	274	403	325	438
Critical (15%)	340	345	455	433	406	266	134	121	132	139	203	249

Alternative 1 minus No Action Alternative

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	34%	0%	2%	33%	19%	4%	117%	115%	9%	-3%	-4%	0%
20%	50%	17%	1%	57%	29%	-2%	178%	178%	27%	-2%	-4%	1%
30%	44%	36%	5%	75%	49%	10%	202%	203%	25%	-2%	-3%	3%
40%	38%	41%	29%	77%	50%	13%	210%	238%	30%	-6%	-10%	7%
50%	32%	42%	38%	80%	45%	20%	204%	229%	54%	-13%	-26%	5%
60%	29%	34%	26%	60%	43%	39%	166%	204%	74%	-19%	-14%	7%
70%	3%	34%	22%	50%	43%	48%	128%	162%	66%	-20%	-1%	3%
80%	-5%	17%	32%	56%	56%	32%	80%	96%	17%	-33%	17%	1%
90%	-16%	15%	13%	40%	103%	91%	22%	-13%	199%	-31%	14%	-7%
Long Term												
Full Simulation Period[b]	24%	22%	16%	50%	36%	15%	127%	120%	28%	-11%	-6%	3%
Water Year Types[c]												
Wet (32%)	34%	25%	27%	41%	13%	-9%	134%	108%	2%	-5%	-9%	3%
Above Normal (16%)	14%	16%	14%	77%	46%	15%	247%	244%	32%	-3%	-9%	4%
Below Normal (13%)	42%	31%	6%	74%	40%	27%	151%	204%	98%	-4%	-17%	-1%
Dry (24%)	16%	19%	7%	48%	64%	55%	69%	81%	41%	-25%	10%	3%
Critical (15%)	8%	18%	19%	24%	62%	49%	44%	34%	104%	-38%	15%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.14.2 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	739	803	727	703	526	515	555	694	694	671
20%	680	671	724	769	686	608	503	420	455	694	694	671
30%	627	652	719	747	668	560	477	387	425	680	694	671
40%	553	623	718	741	614	542	427	351	412	624	634	669
50%	489	591	683	730	552	509	390	319	389	551	515	635
60%	433	513	601	635	519	486	321	281	361	474	446	545
70%	318	464	553	565	465	461	258	242	320	404	369	420
80%	273	352	500	499	416	374	188	181	176	300	281	340
90%	209	288	378	391	335	304	109	80	128	160	161	226
Long Term												
Full Simulation Period[b]	471	525	612	638	538	489	351	308	352	494	489	528
Water Year Types[c]												
Wet (32%)	549	619	716	724	609	543	476	430	456	632	655	660
Above Normal (16%)	428	521	641	716	584	570	453	363	415	572	647	651
Below Normal (13%)	548	595	623	674	497	500	337	304	414	629	517	539
Dry (24%)	435	475	546	579	518	493	259	228	274	403	325	438
Critical (15%)	340	345	455	433	406	266	134	121	132	139	203	249

No Action Alternative

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	517	671	721	604	611	675	242	240	509	714	724	671
20%	454	572	717	490	532	617	181	151	359	708	724	664
30%	434	479	685	427	448	508	158	127	340	694	715	651
40%	400	443	558	419	409	479	138	104	318	667	707	623
50%	370	415	494	406	380	424	128	97	253	634	692	604
60%	336	381	477	396	363	349	121	92	207	588	519	509
70%	310	347	454	377	325	312	113	92	192	501	371	410
80%	286	302	379	321	267	283	104	92	150	444	240	335
90%	250	251	335	280	165	159	89	92	43	232	141	243
Long Term												
Full Simulation Period[b]	378	430	527	426	395	423	154	140	276	558	521	514
Water Year Types[c]												
Wet (32%)	410	497	564	513	537	594	204	207	445	669	717	638
Above Normal (16%)	376	450	562	406	401	496	130	105	315	587	709	628
Below Normal (13%)	386	456	590	387	354	394	134	100	209	657	622	542
Dry (24%)	374	398	510	392	315	318	153	126	194	541	296	426
Critical (15%)	314	293	384	349	250	179	93	90	64	223	176	242

No Action Alternative minus Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-25%	0%	-2%	-25%	-16%	-4%	-54%	-53%	-8%	3%	4%	0%
20%	-33%	-15%	-1%	-36%	-22%	2%	-64%	-64%	-21%	2%	4%	-1%
30%	-31%	-27%	-5%	-43%	-33%	-9%	-67%	-67%	-20%	2%	3%	-3%
40%	-28%	-29%	-22%	-43%	-33%	-12%	-68%	-70%	-23%	7%	12%	-7%
50%	-24%	-30%	-28%	-44%	-31%	-17%	-67%	-70%	-35%	15%	34%	-5%
60%	-22%	-26%	-21%	-38%	-30%	-28%	-62%	-67%	-43%	24%	16%	-7%
70%	-3%	-25%	-18%	-33%	-30%	-32%	-56%	-62%	-40%	24%	1%	-2%
80%	5%	-14%	-24%	-36%	-36%	-24%	-44%	-49%	-14%	48%	-15%	-1%
90%	19%	-13%	-11%	-29%	-51%	-48%	-18%	15%	-67%	45%	-13%	7%
Long Term												
Full Simulation Period[b]	-20%	-18%	-14%	-33%	-27%	-13%	-56%	-55%	-22%	13%	7%	-3%
Water Year Types[c]												
Wet (32%)	-25%	-20%	-21%	-29%	-12%	9%	-57%	-52%	-2%	6%	10%	-3%
Above Normal (16%)	-12%	-14%	-12%	-43%	-31%	-13%	-71%	-71%	-24%	3%	9%	-3%
Below Normal (13%)	-30%	-23%	-5%	-43%	-29%	-21%	-60%	-67%	-50%	4%	20%	1%
Dry (24%)	-14%	-16%	-7%	-32%	-39%	-36%	-41%	-45%	-29%	34%	-9%	-3%
Critical (15%)	-8%	-15%	-16%	-19%	-38%	-33%	-31%	-25%	-51%	60%	-13%	-3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.14.3 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	739	803	727	703	526	515	555	694	694	671
20%	680	671	724	769	686	608	503	420	455	694	694	671
30%	627	652	719	747	668	560	477	387	425	680	694	671
40%	553	623	718	741	614	542	427	351	412	624	634	669
50%	489	591	683	730	552	509	390	319	389	551	515	635
60%	433	513	601	635	519	486	321	281	361	474	446	545
70%	318	464	553	565	465	461	258	242	320	404	369	420
80%	273	352	500	499	416	374	188	181	176	300	281	340
90%	209	288	378	391	335	304	109	80	128	160	161	226
Long Term												
Full Simulation Period[b]	471	525	612	638	538	489	351	308	352	494	489	528
Water Year Types[c]												
Wet (32%)	549	619	716	724	609	543	476	430	456	632	655	660
Above Normal (16%)	428	521	641	716	584	570	453	363	415	572	647	651
Below Normal (13%)	548	595	623	674	497	500	337	304	414	629	517	539
Dry (24%)	435	475	546	579	518	493	259	228	274	403	325	438
Critical (15%)	340	345	455	433	406	266	134	121	132	139	203	249

Alternative 3

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	718	653	725	722	547	563	667	694	694	671
20%	673	671	691	565	603	622	510	496	461	694	694	671
30%	627	652	628	440	524	577	465	452	399	694	694	671
40%	552	627	583	422	449	532	437	386	373	680	694	657
50%	476	571	546	411	393	460	369	329	355	628	624	640
60%	382	501	523	395	365	351	320	281	338	566	502	572
70%	322	467	505	377	320	316	255	230	311	448	396	417
80%	265	346	479	328	264	288	187	124	252	382	268	344
90%	218	276	378	304	202	159	124	102	138	190	170	228
Long Term												
Full Simulation Period[b]	465	520	549	442	426	445	353	330	362	533	513	529
Water Year Types[c]												
Wet (32%)	544	615	601	559	594	589	494	490	519	648	667	654
Above Normal (16%)	430	533	574	414	469	566	441	413	397	586	680	647
Below Normal (13%)	524	587	607	394	373	448	312	266	330	683	650	588
Dry (24%)	440	471	523	389	314	337	270	242	292	492	318	426
Critical (15%)	321	319	401	355	251	180	127	100	131	158	196	245

Alternative 3 minus Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	-3%	**-19%**	0%	3%	4%	**9%**	**20%**	0%	0%	0%
20%	-1%	0%	-5%	**-27%**	**-12%**	2%	1%	**18%**	1%	0%	0%	0%
30%	0%	0%	**-13%**	**-41%**	**-21%**	3%	-3%	**17%**	**-6%**	2%	0%	0%
40%	0%	1%	**-19%**	**-43%**	**-27%**	-2%	2%	**10%**	**-9%**	**9%**	**9%**	-2%
50%	-3%	-3%	**-20%**	**-44%**	**-29%**	**-10%**	**-5%**	3%	**-9%**	**14%**	**21%**	1%
60%	**-12%**	-2%	**-13%**	**-38%**	**-30%**	**-28%**	0%	0%	**-6%**	**19%**	**13%**	5%
70%	1%	0%	**-9%**	**-33%**	**-31%**	**-31%**	-1%	-5%	-3%	**11%**	**7%**	-1%
80%	-3%	-2%	-4%	**-34%**	**-37%**	**-23%**	0%	**-31%**	**43%**	**27%**	-5%	1%
90%	4%	-4%	0%	**-22%**	**-40%**	**-48%**	**14%**	**26%**	**8%**	**19%**	**5%**	1%
Long Term												
Full Simulation Period[b]	-1%	-1%	**-10%**	**-31%**	**-21%**	**-9%**	1%	**7%**	3%	**8%**	5%	0%
Water Year Types[c]												
Wet (32%)	-1%	-1%	**-16%**	**-23%**	-2%	**9%**	4%	**14%**	**14%**	3%	2%	-1%
Above Normal (16%)	0%	2%	**-10%**	**-42%**	**-20%**	-1%	-3%	**14%**	-4%	2%	**5%**	-1%
Below Normal (13%)	-4%	-1%	-3%	**-42%**	**-25%**	**-10%**	**-7%**	**-12%**	**-20%**	**9%**	**26%**	**9%**
Dry (24%)	1%	-1%	-4%	**-33%**	**-39%**	**-32%**	4%	**6%**	**6%**	**22%**	-2%	-3%
Critical (15%)	**-6%**	**-7%**	**-12%**	**-18%**	**-38%**	**-32%**	-5%	**-17%**	0%	**14%**	-3%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.14.4 Exports Through Jones and Banks Pumping Plants, Monthly Export Volume

Second Basis of Comparison

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	694	671	739	803	727	703	526	515	555	694	694	671
20%	680	671	724	769	686	608	503	420	455	694	694	671
30%	627	652	719	747	668	560	477	387	425	680	694	671
40%	553	623	718	741	614	542	427	351	412	624	634	669
50%	489	591	683	730	552	509	390	319	389	551	515	635
60%	433	513	601	635	519	486	321	281	361	474	446	545
70%	318	464	553	565	465	461	258	242	320	404	369	420
80%	273	352	500	499	416	374	188	181	176	300	281	340
90%	209	288	378	391	335	304	109	80	128	160	161	226
Long Term												
Full Simulation Period[b]	471	525	612	638	538	489	351	308	352	494	489	528
Water Year Types[c]												
Wet (32%)	549	619	716	724	609	543	476	430	456	632	655	660
Above Normal (16%)	428	521	641	716	584	570	453	363	415	572	647	651
Below Normal (13%)	548	595	623	674	497	500	337	304	414	629	517	539
Dry (24%)	435	475	546	579	518	493	259	228	274	403	325	438
Critical (15%)	340	345	455	433	406	266	134	121	132	139	203	249

Alternative 5

	Monthly Export Volume (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	514	671	721	604	613	677	223	218	509	714	724	671
20%	454	553	717	490	528	612	165	127	359	709	724	662
30%	429	479	685	427	448	528	134	91	340	696	715	648
40%	378	443	558	419	416	479	122	83	318	678	705	626
50%	360	408	496	405	380	424	111	71	251	646	693	598
60%	334	375	481	396	363	349	97	50	207	606	571	508
70%	311	347	452	377	323	312	80	38	193	568	401	415
80%	289	302	387	319	267	283	45	23	178	445	278	347
90%	245	250	337	280	165	159	30	7	42	271	192	254
Long Term												
Full Simulation Period[b]	376	427	528	427	394	423	122	99	279	570	538	514
Water Year Types[c]												
Wet (32%)	408	505	564	514	532	592	202	202	444	667	718	627
Above Normal (16%)	376	423	561	407	405	496	127	92	315	590	705	625
Below Normal (13%)	381	456	588	387	359	397	103	55	208	663	632	561
Dry (24%)	370	394	513	392	315	318	80	41	205	577	333	433
Critical (15%)	313	293	382	355	249	179	34	20	69	239	222	243

Alternative 5 minus Second Basis of Comparison

	Monthly Export Volume (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-26%	0%	-2%	-25%	-16%	-4%	-58%	-58%	-8%	3%	4%	0%
20%	-33%	-18%	-1%	-36%	-23%	1%	-67%	-70%	-21%	2%	4%	-1%
30%	-32%	-26%	-5%	-43%	-33%	-6%	-72%	-77%	-20%	2%	3%	-4%
40%	-32%	-29%	-22%	-43%	-32%	-12%	-71%	-77%	-23%	9%	11%	-6%
50%	-26%	-31%	-27%	-45%	-31%	-17%	-71%	-78%	-35%	17%	35%	-6%
60%	-23%	-27%	-20%	-38%	-30%	-28%	-70%	-82%	-43%	28%	28%	-7%
70%	-2%	-25%	-18%	-33%	-30%	-32%	-69%	-84%	-40%	41%	9%	-1%
80%	6%	-14%	-23%	-36%	-36%	-24%	-76%	-87%	1%	49%	-1%	2%
90%	17%	-13%	-11%	-29%	-51%	-48%	-72%	-91%	-67%	69%	19%	12%
Long Term												
Full Simulation Period[b]	-20%	-19%	-14%	-33%	-27%	-13%	-65%	-68%	-21%	15%	10%	-3%
Water Year Types[c]												
Wet (32%)	-26%	-19%	-21%	-29%	-13%	9%	-58%	-53%	-3%	6%	10%	-5%
Above Normal (16%)	-12%	-19%	-12%	-43%	-31%	-13%	-72%	-75%	-24%	3%	9%	-4%
Below Normal (13%)	-30%	-23%	-6%	-43%	-28%	-21%	-69%	-82%	-50%	5%	22%	4%
Dry (24%)	-15%	-17%	-6%	-32%	-39%	-36%	-69%	-82%	-25%	43%	2%	-1%
Critical (15%)	-8%	-15%	-16%	-18%	-39%	-33%	-75%	-83%	-48%	72%	10%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.15 CVP Deliveries

Table 5C.3.3.15.1.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				Alternative 1	No Action Alternative	Alternative 1 minus No Action Alternative
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,858	1,859	-1
			Dry	1,905	1,906	0
			Critical	1,734	1,737	-3
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	155	146	8
			Dry	151	146	6
			Critical	105	102	3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	214	207	7
			Dry	192	186	6
			Critical	152	152	0
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	221	185	36
			Dry	124	86	39
			Critical	38	24	14
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	268	269	0
			Critical	224	224	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	350	269	82
			Dry	206	140	67
			Critical	65	41	24
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	289	275	13
			Dry	284	274	10
			Critical	270	264	6
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	43	33	11
			Dry	25	17	8
			Critical	8	5	3
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	715	545	169
			Dry	430	288	143
			Critical	137	85	51
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,971	4,646	325
			Dry	4,475	4,198	277
			Critical	3,484	3,385	99

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text.

Table 5C.3.3.15.1.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				Alternative 1	No Action Alternative	Alternative 1 minus No Action Alternative
Water Supply Reliability						
North of Delta						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	221	185	36
			Dry	124	86	39
			Critical	38	24	14
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term	486	467	19
			Dry	461	447	14
			Critical	410	405	5
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term	120	113	8
			Dry	105	97	9
			Critical	80	75	6
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,858	1,859	-1
			Dry	1,905	1,906	0
			Critical	1,734	1,737	-3
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	155	146	8
			Dry	151	146	6
			Critical	105	102	3
Total CVP North of Delta						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term	2,720	2,658	62
			Dry	2,642	2,584	58
			Critical	2,287	2,268	19
South of Delta (Does not include Eastside Contractors deliveries)						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	1,108	847	262
			Dry	662	445	218
			Critical	210	131	78
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	17	15	2
			Dry	15	14	1
			Critical	12	11	1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	268	269	0
			Critical	224	224	0
Total CVP South of Delta (Does not include Eastside Contractors deliveries)						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term	1,386	1,123	263
			Dry	946	727	219
			Critical	445	366	79
Eastside Contractors deliveries						
Water Rights	Delivery (annual average)	(TAF/year)	Long Term	510	508	2
			Dry	524	524	0
			Critical	460	445	16
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term	108	104	5
			Dry	87	84	2
			Critical	4	4	0
Total Eastside Contractors Deliveries						
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term	618	611	7
			Dry	611	608	2
			Critical	465	449	16

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text. 6) Contra Costa Water District accounted for as part of North of Delta deliveries.

Table 5C.3.3.15.2.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				No Action Alternative	Second Basis of Comparison	No Action Alternative minus Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,859	1,858	1
			Dry	1,906	1,905	0
			Critical	1,737	1,734	3
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	146	155	-8
			Dry	146	151	-6
			Critical	102	105	-3
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	207	214	-7
			Dry	186	192	-6
			Critical	152	152	0
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	185	221	-36
			Dry	86	124	-39
			Critical	24	38	-14
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	269	268	0
			Critical	224	224	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	269	350	-82
			Dry	140	206	-67
			Critical	41	65	-24
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	275	289	-13
			Dry	274	284	-10
			Critical	264	270	-6
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	33	43	-11
			Dry	17	25	-8
			Critical	5	8	-3
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	545	715	-169
			Dry	288	430	-143
			Critical	85	137	-51
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,646	4,971	-325
			Dry	4,198	4,475	-277
			Critical	3,385	3,484	-99

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text.

Table 5C.3.3.15.2.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				No Action Alternative	Second Basis of Comparison	No Action Alternative minus Second Basis of Comparison
Water Supply Reliability						
North of Delta						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	185	221	-36
			Dry	86	124	-39
			Critical	24	38	-14
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term	467	486	-19
			Dry	447	461	-14
			Critical	405	410	-5
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term	113	120	-8
			Dry	97	105	-9
			Critical	75	80	-6
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,859	1,858	1
			Dry	1,906	1,905	0
			Critical	1,737	1,734	3
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	146	155	-8
			Dry	146	151	-6
			Critical	102	105	-3
Total CVP North of Delta						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term	2,658	2,720	-62
			Dry	2,584	2,642	-58
			Critical	2,268	2,287	-19
South of Delta (Does not include Eastside Contractors deliveries)						
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	847	1,108	-262
			Dry	445	662	-218
			Critical	131	210	-78
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	15	17	-2
			Dry	14	15	-1
			Critical	11	12	-1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	269	268	0
			Critical	224	224	0
Total CVP South of Delta (Does not include Eastside Contractors deliveries)						
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term	1,123	1,386	-263
			Dry	727	946	-219
			Critical	366	445	-79
Eastside Contractors deliveries						
Water Rights	Delivery (annual average)	(TAF/year)	Long Term	508	510	-2
			Dry	524	524	0
			Critical	445	460	-16
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term	104	108	-5
			Dry	84	87	-2
			Critical	4	4	0
Total Eastside Contractors Deliveries						
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term	611	618	-7
			Dry	608	611	-2
			Critical	449	465	-16

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text. 6) Contra Costa Water District accounted for as part of North of Delta deliveries.

Table 5C.3.3.15.3.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				Alternative 3	Second Basis of Comparison	Alternative 3 minus Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,860	1,858	2
			Dry	1,906	1,905	0
			Critical	1,742	1,734	8
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	153	155	-1
			Dry	149	151	-2
			Critical	103	105	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	214	214	-1
			Dry	192	192	0
			Critical	152	152	1
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	209	221	-12
			Dry	111	124	-13
			Critical	31	38	-7
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	269	268	0
			Critical	224	224	0
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	342	350	-9
			Dry	185	206	-21
			Critical	53	65	-12
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	286	289	-3
			Dry	283	284	-1
			Critical	267	270	-4
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	42	43	-1
			Dry	23	25	-2
			Critical	6	8	-2
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	696	715	-19
			Dry	387	430	-43
			Critical	108	137	-28
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,927	4,971	-44
			Dry	4,392	4,475	-82
			Critical	3,437	3,484	-46

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text.

Table 5C.3.3.15.3.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

					Alternative 3	Second Basis of Comparison	Alternative 3 minus Second Basis of Comparison
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		209	221	-12
			Dry		111	124	-13
			Critical		31	38	-7
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term		483	486	-3
			Dry		460	461	-1
			Critical		408	410	-3
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term		118	120	-2
			Dry		104	105	-2
			Critical		78	80	-3
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,860	1,858	2
			Dry		1,906	1,905	0
			Critical		1,742	1,734	8
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		153	155	-1
			Dry		149	151	-2
			Critical		103	105	-2
Total CVP North of Delta							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		2,706	2,720	-15
			Dry		2,626	2,642	-16
			Critical		2,284	2,287	-4
South of Delta (Does not include Eastside Contractors deliveries)							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		1,079	1,108	-29
			Dry		596	662	-67
			Critical		168	210	-42
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		17	17	0
			Dry		15	15	0
			Critical		11	12	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	261	0
			Dry		269	268	0
			Critical		224	224	0
Total CVP South of Delta (Does not include Eastside Contractors deliveries)							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term		1,357	1,386	-29
			Dry		879	946	-66
			Critical		403	445	-43
Eastside Contractors deliveries							
Water Rights	Delivery (annual average)	(TAF/year)	Long Term		513	510	3
			Dry		524	524	0
			Critical		478	460	17
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term		123	108	15
			Dry		109	87	22
			Critical		36	4	32
Total Eastside Contractors Deliveries							
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term		636	618	18
			Dry		633	611	22
			Critical		514	465	50

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text. 6) Contra Costa Water District accounted for as part of North of Delta deliveries.

Table 5C.3.3.15.4.1 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

				Alternative 5	Second Basis of Comparison	Alternative 5 minus Second Basis of Comparison
Water Supply Reliability						
Sacramento River Hydrologic Region						
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term	1,861	1,858	3
			Dry	1,906	1,905	0
			Critical	1,747	1,734	13
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	146	155	-9
			Dry	145	151	-6
			Critical	103	105	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	207	214	-7
			Dry	186	192	-6
			Critical	152	152	0
CVP Ag	Contract Delivery (annual average - does not include Settlement contractors)	(TAF/year)	Long Term	185	221	-36
			Dry	85	124	-39
			Critical	24	38	-14
San Joaquin River Hydrologic Region (not including Friant-Kern and Madera Canal water users and Eastside Contractors deliveries)						
CVP Exchange	Contract Delivery (annual average)	(TAF/year)	Long Term	852	852	0
			Dry	875	875	0
			Critical	741	741	0
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	261	261	0
			Dry	269	268	0
			Critical	222	224	-2
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	0	0	0
			Dry	0	0	0
			Critical	0	0	0
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term	264	350	-87
			Dry	135	206	-71
			Critical	40	65	-25
San Francisco Bay Hydrologic Region						
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term	275	289	-13
			Dry	275	284	-9
			Critical	264	270	-6
CVP Ag	Contract Delivery (annual average)	(TAF/year)	Long Term	32	43	-11
			Dry	17	25	-8
			Critical	5	8	-3
Central Coast Hydrologic Region						
Tulare Lake Hydrologic Region (not including Friant-Kern Canal water users)						
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term	12	12	0
			Dry	12	12	0
			Critical	10	10	0
CVP Ag	Contract Delivery (annual average - includes Cross Valley Canal)	(TAF/year)	Long Term	538	715	-176
			Dry	281	430	-149
			Critical	85	137	-52
Total For All Regions						
Total Supplies	Contract Delivery (annual average)	(TAF/year)	Long Term	4,634	4,971	-337
			Dry	4,186	4,475	-288
			Critical	3,393	3,484	-91

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in the text.

Table 5C.3.3.15.4.2 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Averages, CVP

					Alternative 5	Second Basis of Comparison	Alternative 5 minus Second Basis of Comparison
Water Supply Reliability							
North of Delta							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		185	221	-36
			Dry		85	124	-39
			Critical		24	38	-14
CVP M&I (Including American River)	Contract Delivery (annual average)	(TAF/year)	Long Term		467	486	-18
			Dry		447	461	-13
			Critical		405	410	-5
CVP M&I American River	Contract Delivery (annual average)	(TAF/year)	Long Term		112	120	-8
			Dry		96	105	-9
			Critical		74	80	-7
CVP Settlement	Contract Delivery (annual average)	(TAF/year)	Long Term		1,861	1,858	3
			Dry		1,906	1,905	0
			Critical		1,747	1,734	13
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		146	155	-9
			Dry		145	151	-6
			Critical		103	105	-2
Total CVP North of Delta							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (CVP) (annual average)	(TAF/year)	Long Term		2,660	2,720	-60
			Dry		2,584	2,642	-58
			Critical		2,279	2,287	-8
South of Delta (Does not include Eastside Contractors deliveries)							
CVP Ag	Contract Delivery (annual average; does not include Exchange contractors)	(TAF/year)	Long Term		834	1,108	-274
			Dry		433	662	-229
			Critical		130	210	-80
CVP M&I	Contract Delivery (annual average)	(TAF/year)	Long Term		15	17	-2
			Dry		14	15	-1
			Critical		11	12	-1
CVP Refuge Level 2	Contract Delivery (annual average)	(TAF/year)	Long Term		261	261	0
			Dry		269	268	0
			Critical		222	224	-2
Total CVP South of Delta (Does not include Eastside Contractors deliveries)							
Total CVP Ag, M&I, Settlement, and Refuge Deliveries	Contract Delivery (annual average)	(TAF/year)	Long Term		1,110	1,386	-276
			Dry		715	946	-230
			Critical		363	445	-83
Eastside Contractors deliveries							
Water Rights	Delivery (annual average)	(TAF/year)	Long Term		502	510	-8
			Dry		524	524	0
			Critical		406	460	-55
CVP Service Contracts	Contract Delivery (annual average)	(TAF/year)	Long Term		100	108	-8
			Dry		69	87	-18
			Critical		8	4	4
Total Eastside Contractors Deliveries							
Total Water Rights and CVP Service Contracts Deliveries	Delivery (annual average)	(TAF/year)	Long Term		602	618	-16
			Dry		593	611	-18
			Critical		414	465	-50

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text. 6) Contra Costa Water District accounted for as part of North of Delta deliveries.

Table 5C.3.3.15.5 CALSIM II Summary Reporting Metrics, Long-Term Average and Dry and Critical Year Aver

	Stanislaus Deliveries		Difference from No Action Alternative		Difference from Second Basis of Comparison	
	CVP	Water Rights	CVP	Water Rights	CVP	Water Rights
	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)
No Action Alternative	103.5	507.8				
Second Basis of Comparison	108.1	510.1	4.5	2.3		
Alternative 2	103.5	507.8			-4.5	-2.3
Alternative 3	123.2	512.7	19.6	4.9	15.1	2.6
Alternative 5	99.7	502.1	-3.8	-5.7	-8.4	-8.1

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.16 CVP Total Generating Capacity

Table 5C.3.3.16.1 CVP Total Capacity, Monthly Capacity

No Action Alternative

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,688	1,743	1,810	1,854	1,883	1,895	1,877	1,848	1,785	1,749	1,670	1,647
20%	1,638	1,724	1,772	1,829	1,858	1,872	1,842	1,806	1,719	1,695	1,623	1,615
30%	1,600	1,694	1,744	1,802	1,837	1,842	1,825	1,782	1,671	1,623	1,585	1,599
40%	1,579	1,635	1,710	1,776	1,811	1,812	1,793	1,736	1,634	1,583	1,545	1,553
50%	1,550	1,611	1,681	1,732	1,778	1,782	1,757	1,711	1,607	1,543	1,510	1,516
60%	1,529	1,556	1,622	1,700	1,749	1,752	1,725	1,652	1,564	1,504	1,481	1,473
70%	1,465	1,519	1,588	1,661	1,712	1,714	1,685	1,618	1,524	1,457	1,433	1,432
80%	1,354	1,428	1,521	1,584	1,666	1,675	1,637	1,578	1,440	1,353	1,332	1,342
90%	1,137	1,293	1,403	1,455	1,476	1,502	1,454	1,384	1,203	1,120	1,085	1,103
Long Term												
Full Simulation Period[b]	1,476	1,542	1,612	1,685	1,727	1,734	1,705	1,648	1,542	1,468	1,429	1,430
Water Year Types[c]												
Wet (32%)	1,621	1,696	1,761	1,824	1,860	1,877	1,859	1,831	1,753	1,717	1,645	1,628
Above Normal (16%)	1,465	1,580	1,676	1,762	1,814	1,814	1,793	1,741	1,633	1,590	1,545	1,541
Below Normal (13%)	1,530	1,580	1,669	1,719	1,764	1,757	1,728	1,665	1,559	1,491	1,478	1,483
Dry (24%)	1,441	1,491	1,556	1,637	1,690	1,709	1,680	1,607	1,508	1,434	1,418	1,433
Critical (15%)	1,180	1,221	1,264	1,348	1,374	1,355	1,299	1,205	1,025	832	808	825

Alternative 1

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,767	1,807	1,854	1,883	1,910	1,941	1,942	1,899	1,825	1,767	1,751	1,733
20%	1,731	1,790	1,829	1,862	1,891	1,923	1,907	1,856	1,739	1,676	1,669	1,677
30%	1,687	1,768	1,809	1,849	1,876	1,899	1,890	1,808	1,695	1,620	1,608	1,647
40%	1,645	1,727	1,787	1,832	1,865	1,879	1,857	1,770	1,654	1,590	1,571	1,574
50%	1,583	1,686	1,750	1,811	1,846	1,855	1,832	1,745	1,612	1,550	1,541	1,544
60%	1,561	1,629	1,710	1,768	1,811	1,831	1,788	1,701	1,584	1,509	1,487	1,488
70%	1,482	1,568	1,650	1,714	1,771	1,786	1,760	1,669	1,550	1,471	1,439	1,448
80%	1,379	1,450	1,576	1,644	1,719	1,747	1,713	1,616	1,490	1,391	1,387	1,375
90%	1,197	1,360	1,427	1,535	1,569	1,552	1,523	1,429	1,335	1,222	1,183	1,134
Long Term												
Full Simulation Period[b]	1,532	1,606	1,675	1,735	1,780	1,795	1,772	1,693	1,574	1,492	1,469	1,474
Water Year Types[c]												
Wet (32%)	1,679	1,756	1,811	1,857	1,892	1,926	1,920	1,871	1,773	1,717	1,694	1,701
Above Normal (16%)	1,522	1,652	1,747	1,810	1,856	1,877	1,860	1,778	1,653	1,584	1,567	1,564
Below Normal (13%)	1,606	1,671	1,754	1,792	1,830	1,838	1,807	1,718	1,593	1,496	1,481	1,487
Dry (24%)	1,476	1,536	1,607	1,689	1,746	1,771	1,746	1,652	1,533	1,463	1,445	1,456
Critical (15%)	1,250	1,290	1,342	1,416	1,466	1,419	1,366	1,262	1,106	948	902	904

Alternative 1 minus No Action Alternative

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5%	4%	2%	2%	1%	2%	3%	3%	2%	1%	5%	5%
20%	6%	4%	3%	2%	2%	3%	3%	3%	1%	-1%	3%	4%
30%	5%	4%	4%	3%	2%	3%	4%	1%	1%	0%	1%	3%
40%	4%	6%	4%	3%	3%	4%	4%	2%	1%	0%	2%	1%
50%	2%	5%	4%	5%	4%	4%	4%	2%	0%	0%	2%	2%
60%	2%	5%	5%	4%	4%	5%	4%	3%	1%	0%	0%	1%
70%	1%	3%	4%	3%	3%	4%	4%	3%	2%	1%	0%	1%
80%	2%	2%	4%	4%	3%	4%	5%	2%	4%	3%	4%	2%
90%	5%	5%	2%	6%	6%	3%	5%	3%	11%	9%	9%	3%
Long Term												
Full Simulation Period[b]	4%	4%	4%	3%	3%	4%	4%	3%	2%	2%	3%	3%
Water Year Types[c]												
Wet (32%)	4%	4%	3%	2%	2%	3%	3%	2%	1%	0%	3%	4%
Above Normal (16%)	4%	5%	4%	3%	2%	3%	4%	2%	1%	0%	1%	2%
Below Normal (13%)	5%	6%	5%	4%	4%	5%	5%	3%	2%	0%	0%	0%
Dry (24%)	2%	3%	3%	3%	3%	4%	4%	3%	2%	2%	2%	2%
Critical (15%)	6%	6%	6%	5%	7%	5%	5%	5%	8%	14%	12%	10%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.16.2 CVP Total Capacity, Monthly Capacity

Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,767	1,807	1,854	1,883	1,910	1,941	1,942	1,899	1,825	1,767	1,751	1,733
20%	1,731	1,790	1,829	1,862	1,891	1,923	1,907	1,856	1,739	1,676	1,669	1,677
30%	1,687	1,768	1,809	1,849	1,876	1,899	1,890	1,808	1,695	1,620	1,608	1,647
40%	1,645	1,727	1,787	1,832	1,865	1,879	1,857	1,770	1,654	1,590	1,571	1,574
50%	1,583	1,686	1,750	1,811	1,846	1,855	1,832	1,745	1,612	1,550	1,541	1,544
60%	1,561	1,629	1,710	1,768	1,811	1,831	1,788	1,701	1,584	1,509	1,487	1,488
70%	1,482	1,568	1,650	1,714	1,771	1,786	1,760	1,669	1,550	1,471	1,439	1,448
80%	1,379	1,450	1,576	1,644	1,719	1,747	1,713	1,616	1,490	1,391	1,387	1,375
90%	1,197	1,360	1,427	1,535	1,569	1,552	1,523	1,429	1,335	1,222	1,183	1,134
Long Term												
Full Simulation Period[b]	1,532	1,606	1,675	1,735	1,780	1,795	1,772	1,693	1,574	1,492	1,469	1,474
Water Year Types[c]												
Wet (32%)	1,679	1,756	1,811	1,857	1,892	1,926	1,920	1,871	1,773	1,717	1,694	1,701
Above Normal (16%)	1,522	1,652	1,747	1,810	1,856	1,877	1,860	1,778	1,653	1,584	1,567	1,564
Below Normal (13%)	1,606	1,671	1,754	1,792	1,830	1,838	1,807	1,718	1,593	1,496	1,481	1,487
Dry (24%)	1,476	1,536	1,607	1,689	1,746	1,771	1,746	1,652	1,533	1,463	1,445	1,456
Critical (15%)	1,250	1,290	1,342	1,416	1,466	1,419	1,366	1,262	1,106	948	902	904

No Action Alternative

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,688	1,743	1,810	1,854	1,883	1,895	1,877	1,848	1,785	1,749	1,670	1,647
20%	1,638	1,724	1,772	1,829	1,858	1,872	1,842	1,806	1,719	1,695	1,623	1,615
30%	1,600	1,694	1,744	1,802	1,837	1,842	1,825	1,782	1,671	1,623	1,585	1,599
40%	1,579	1,635	1,710	1,776	1,811	1,812	1,793	1,736	1,634	1,583	1,545	1,553
50%	1,550	1,611	1,681	1,732	1,778	1,782	1,757	1,711	1,607	1,543	1,510	1,516
60%	1,529	1,556	1,622	1,700	1,749	1,752	1,725	1,652	1,564	1,504	1,481	1,473
70%	1,465	1,519	1,588	1,661	1,712	1,714	1,685	1,618	1,524	1,457	1,433	1,432
80%	1,354	1,428	1,521	1,584	1,666	1,675	1,637	1,578	1,440	1,353	1,332	1,342
90%	1,137	1,293	1,403	1,455	1,476	1,502	1,454	1,384	1,203	1,120	1,085	1,103
Long Term												
Full Simulation Period[b]	1,476	1,542	1,612	1,685	1,727	1,734	1,705	1,648	1,542	1,468	1,429	1,430
Water Year Types[c]												
Wet (32%)	1,621	1,696	1,761	1,824	1,860	1,877	1,859	1,831	1,753	1,717	1,645	1,628
Above Normal (16%)	1,465	1,580	1,676	1,762	1,814	1,814	1,793	1,741	1,633	1,590	1,545	1,541
Below Normal (13%)	1,530	1,580	1,669	1,719	1,764	1,757	1,728	1,665	1,559	1,491	1,478	1,483
Dry (24%)	1,441	1,491	1,556	1,637	1,690	1,709	1,680	1,607	1,508	1,434	1,418	1,433
Critical (15%)	1,180	1,221	1,264	1,348	1,374	1,355	1,299	1,205	1,025	832	808	825

No Action Alternative minus Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-4%	-4%	-2%	-2%	-1%	-2%	-3%	-3%	-2%	-1%	-5%	-5%
20%	**-5%**	-4%	-3%	-2%	-2%	-3%	-3%	-3%	-1%	1%	-3%	-4%
30%	**-5%**	-4%	-4%	-3%	-2%	-3%	-3%	-1%	-1%	0%	-1%	-3%
40%	-4%	**-5%**	-4%	-3%	-3%	-4%	-3%	-2%	-1%	0%	-2%	-1%
50%	-2%	-4%	-4%	-4%	-4%	-4%	-4%	-2%	0%	0%	-2%	-2%
60%	-2%	-5%	**-5%**	-4%	-3%	-4%	-3%	-3%	-1%	0%	0%	-1%
70%	-1%	-3%	-4%	-3%	-3%	-4%	-4%	-3%	-2%	-1%	0%	-1%
80%	-2%	-2%	-4%	-4%	-3%	-4%	-4%	-2%	-3%	-3%	-4%	-2%
90%	**-5%**	-5%	-2%	**-5%**	**-6%**	-3%	-4%	-3%	**-10%**	**-8%**	**-8%**	-3%
Long Term												
Full Simulation Period[b]	-4%	-4%	-4%	-3%	-3%	-3%	-4%	-3%	-2%	-2%	-3%	-3%
Water Year Types[c]												
Wet (32%)	-3%	-3%	-3%	-2%	-2%	-3%	-3%	-2%	-1%	0%	-3%	-4%
Above Normal (16%)	-4%	-4%	-4%	-3%	-2%	-3%	-4%	-2%	-1%	0%	-1%	-2%
Below Normal (13%)	-5%	**-5%**	-5%	-4%	-4%	-4%	-4%	-3%	-2%	0%	0%	0%
Dry (24%)	-2%	-3%	-3%	-3%	-3%	-4%	-4%	-3%	-2%	-2%	-2%	-2%
Critical (15%)	**-6%**	**-5%**	**-6%**	-5%	**-6%**	-5%	-5%	-5%	**-7%**	**-12%**	**-10%**	**-9%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.16.3 CVP Total Capacity, Monthly Capacity

Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,767	1,807	1,854	1,883	1,910	1,941	1,942	1,899	1,825	1,767	1,751	1,733
20%	1,731	1,790	1,829	1,862	1,891	1,923	1,907	1,856	1,739	1,676	1,669	1,677
30%	1,687	1,768	1,809	1,849	1,876	1,899	1,890	1,808	1,695	1,620	1,608	1,647
40%	1,645	1,727	1,787	1,832	1,865	1,879	1,857	1,770	1,654	1,590	1,571	1,574
50%	1,583	1,686	1,750	1,811	1,846	1,855	1,832	1,745	1,612	1,550	1,541	1,544
60%	1,561	1,629	1,710	1,768	1,811	1,831	1,788	1,701	1,584	1,509	1,487	1,488
70%	1,482	1,568	1,650	1,714	1,771	1,786	1,760	1,669	1,550	1,471	1,439	1,448
80%	1,379	1,450	1,576	1,644	1,719	1,747	1,713	1,616	1,490	1,391	1,387	1,375
90%	1,197	1,360	1,427	1,535	1,569	1,552	1,523	1,429	1,335	1,222	1,183	1,134
Long Term												
Full Simulation Period[b]	1,532	1,606	1,675	1,735	1,780	1,795	1,772	1,693	1,574	1,492	1,469	1,474
Water Year Types[c]												
Wet (32%)	1,679	1,756	1,811	1,857	1,892	1,926	1,920	1,871	1,773	1,717	1,694	1,701
Above Normal (16%)	1,522	1,652	1,747	1,810	1,856	1,877	1,860	1,778	1,653	1,584	1,567	1,564
Below Normal (13%)	1,606	1,671	1,754	1,792	1,830	1,838	1,807	1,718	1,593	1,496	1,481	1,487
Dry (24%)	1,476	1,536	1,607	1,689	1,746	1,771	1,746	1,652	1,533	1,463	1,445	1,456
Critical (15%)	1,250	1,290	1,342	1,416	1,466	1,419	1,366	1,262	1,106	948	902	904

Alternative 3

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,778	1,818	1,852	1,884	1,910	1,945	1,947	1,910	1,837	1,777	1,759	1,753
20%	1,749	1,789	1,828	1,860	1,894	1,930	1,930	1,883	1,766	1,692	1,687	1,696
30%	1,708	1,772	1,814	1,851	1,884	1,900	1,895	1,828	1,717	1,654	1,633	1,659
40%	1,663	1,741	1,781	1,838	1,866	1,882	1,849	1,777	1,670	1,601	1,604	1,600
50%	1,609	1,689	1,744	1,800	1,840	1,851	1,821	1,760	1,644	1,572	1,554	1,569
60%	1,579	1,639	1,695	1,748	1,797	1,814	1,781	1,711	1,603	1,542	1,511	1,510
70%	1,499	1,557	1,632	1,703	1,768	1,784	1,755	1,665	1,567	1,487	1,453	1,465
80%	1,394	1,457	1,570	1,624	1,708	1,738	1,707	1,620	1,506	1,408	1,378	1,372
90%	1,231	1,365	1,434	1,496	1,518	1,545	1,519	1,453	1,343	1,229	1,190	1,181
Long Term												
Full Simulation Period[b]	1,551	1,613	1,676	1,732	1,777	1,794	1,775	1,705	1,592	1,512	1,486	1,493
Water Year Types[c]												
Wet (32%)	1,690	1,756	1,806	1,856	1,894	1,929	1,928	1,885	1,791	1,730	1,713	1,716
Above Normal (16%)	1,527	1,640	1,746	1,802	1,852	1,875	1,862	1,786	1,679	1,615	1,591	1,589
Below Normal (13%)	1,629	1,676	1,751	1,790	1,829	1,832	1,788	1,718	1,607	1,529	1,504	1,501
Dry (24%)	1,504	1,551	1,612	1,686	1,748	1,768	1,745	1,660	1,555	1,479	1,459	1,475
Critical (15%)	1,283	1,319	1,355	1,411	1,444	1,422	1,386	1,288	1,113	967	909	930

Alternative 3 minus Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1%	1%	0%	0%	0%	0%	0%	1%	1%	1%	0%	1%
20%	1%	0%	0%	0%	0%	0%	1%	1%	2%	1%	1%	1%
30%	1%	0%	0%	0%	0%	0%	0%	1%	1%	2%	2%	1%
40%	1%	1%	0%	0%	0%	0%	0%	0%	1%	1%	2%	2%
50%	2%	0%	0%	-1%	0%	0%	-1%	1%	2%	1%	1%	2%
60%	1%	1%	-1%	-1%	-1%	-1%	0%	1%	1%	2%	2%	1%
70%	1%	-1%	-1%	-1%	0%	0%	0%	0%	1%	1%	1%	1%
80%	1%	0%	0%	-1%	-1%	-1%	0%	0%	1%	1%	-1%	0%
90%	3%	0%	0%	-3%	-3%	-1%	0%	2%	1%	1%	1%	4%
Long Term												
Full Simulation Period[b]	1%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%
Water Year Types[c]												
Wet (32%)	1%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%
Above Normal (16%)	0%	-1%	0%	0%	0%	0%	0%	0%	2%	2%	1%	2%
Below Normal (13%)	1%	0%	0%	0%	0%	0%	-1%	0%	1%	2%	2%	1%
Dry (24%)	2%	1%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%
Critical (15%)	3%	2%	1%	0%	-1%	0%	1%	2%	1%	2%	1%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.16.4 CVP Total Capacity, Monthly Capacity

Second Basis of Comparison

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,767	1,807	1,854	1,883	1,910	1,941	1,942	1,899	1,825	1,767	1,751	1,733
20%	1,731	1,790	1,829	1,862	1,891	1,923	1,907	1,856	1,739	1,676	1,669	1,677
30%	1,687	1,768	1,809	1,849	1,876	1,899	1,890	1,808	1,695	1,620	1,608	1,647
40%	1,645	1,727	1,787	1,832	1,865	1,879	1,857	1,770	1,654	1,590	1,571	1,574
50%	1,583	1,686	1,750	1,811	1,846	1,855	1,832	1,745	1,612	1,550	1,541	1,544
60%	1,561	1,629	1,710	1,768	1,811	1,831	1,788	1,701	1,584	1,509	1,487	1,488
70%	1,482	1,568	1,650	1,714	1,771	1,786	1,760	1,669	1,550	1,471	1,439	1,448
80%	1,379	1,450	1,576	1,644	1,719	1,747	1,713	1,616	1,490	1,391	1,387	1,375
90%	1,197	1,360	1,427	1,535	1,569	1,552	1,523	1,429	1,335	1,222	1,183	1,134
Long Term												
Full Simulation Period[b]	1,532	1,606	1,675	1,735	1,780	1,795	1,772	1,693	1,574	1,492	1,469	1,474
Water Year Types[c]												
Wet (32%)	1,679	1,756	1,811	1,857	1,892	1,926	1,920	1,871	1,773	1,717	1,694	1,701
Above Normal (16%)	1,522	1,652	1,747	1,810	1,856	1,877	1,860	1,778	1,653	1,584	1,567	1,564
Below Normal (13%)	1,606	1,671	1,754	1,792	1,830	1,838	1,807	1,718	1,593	1,496	1,481	1,487
Dry (24%)	1,476	1,536	1,607	1,689	1,746	1,771	1,746	1,652	1,533	1,463	1,445	1,456
Critical (15%)	1,250	1,290	1,342	1,416	1,466	1,419	1,366	1,262	1,106	948	902	904

Alternative 5

	Monthly Capacity (MW)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,693	1,746	1,805	1,849	1,882	1,891	1,879	1,849	1,777	1,748	1,671	1,650
20%	1,635	1,721	1,772	1,829	1,859	1,867	1,843	1,806	1,725	1,690	1,624	1,612
30%	1,599	1,680	1,744	1,797	1,836	1,839	1,816	1,766	1,655	1,616	1,576	1,579
40%	1,566	1,638	1,710	1,767	1,801	1,801	1,785	1,732	1,619	1,571	1,538	1,547
50%	1,538	1,596	1,668	1,726	1,775	1,774	1,737	1,700	1,598	1,555	1,504	1,510
60%	1,516	1,552	1,617	1,687	1,737	1,733	1,701	1,643	1,537	1,484	1,460	1,457
70%	1,458	1,512	1,571	1,650	1,694	1,699	1,673	1,596	1,506	1,415	1,413	1,413
80%	1,327	1,399	1,504	1,574	1,644	1,639	1,616	1,532	1,439	1,324	1,302	1,310
90%	1,044	1,242	1,372	1,427	1,440	1,483	1,450	1,351	1,173	1,061	1,046	1,029
Long Term												
Full Simulation Period[b]	1,460	1,532	1,603	1,672	1,716	1,717	1,692	1,633	1,525	1,450	1,410	1,410
Water Year Types[c]												
Wet (32%)	1,609	1,690	1,755	1,819	1,856	1,873	1,858	1,830	1,748	1,715	1,641	1,625
Above Normal (16%)	1,458	1,576	1,671	1,757	1,808	1,806	1,785	1,735	1,624	1,577	1,536	1,532
Below Normal (13%)	1,504	1,559	1,648	1,712	1,755	1,743	1,710	1,653	1,546	1,474	1,465	1,468
Dry (24%)	1,428	1,478	1,545	1,622	1,676	1,686	1,657	1,585	1,485	1,403	1,383	1,391
Critical (15%)	1,152	1,205	1,253	1,308	1,344	1,310	1,274	1,159	985	793	768	794

Alternative 5 minus Second Basis of Comparison

	Monthly Capacity (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-4%	-3%	-3%	-2%	-1%	-3%	-3%	-3%	-3%	-1%	-5%	-5%
20%	**-6%**	-4%	-3%	-2%	-2%	-3%	-3%	-3%	-1%	1%	-3%	-4%
30%	**-5%**	-5%	-4%	-3%	-2%	-3%	-4%	-2%	-2%	0%	-2%	-4%
40%	-5%	**-5%**	-4%	-4%	-3%	-4%	-4%	-2%	-2%	-1%	-2%	-2%
50%	-3%	**-5%**	-5%	-5%	-4%	-4%	**-5%**	-3%	-1%	0%	-2%	-2%
60%	-3%	-5%	**-5%**	-5%	-4%	**-5%**	-5%	-3%	-3%	-2%	-2%	-2%
70%	-2%	-4%	-5%	-4%	-4%	-5%	-5%	-4%	-3%	-4%	-2%	-2%
80%	-4%	-4%	-5%	-4%	-4%	**-6%**	**-6%**	**-5%**	-3%	-5%	**-6%**	-5%
90%	**-13%**	**-9%**	-4%	**-7%**	**-8%**	-4%	-5%	**-6%**	**-12%**	**-13%**	**-12%**	**-9%**
Long Term												
Full Simulation Period[b]	-5%	-5%	-4%	-4%	-4%	-4%	-4%	-4%	-3%	-3%	-4%	-4%
Water Year Types[c]												
Wet (32%)	-4%	-4%	-3%	-2%	-2%	-3%	-3%	-2%	-1%	0%	-3%	-4%
Above Normal (16%)	-4%	-5%	-4%	-3%	-3%	-4%	-4%	-2%	-2%	0%	-2%	-2%
Below Normal (13%)	**-6%**	**-7%**	**-6%**	-4%	-4%	**-5%**	**-5%**	-4%	-3%	-1%	-1%	-1%
Dry (24%)	-3%	-4%	-4%	-4%	-4%	-5%	**-5%**	-4%	-3%	-4%	-4%	-5%
Critical (15%)	**-8%**	**-7%**	**-7%**	**-8%**	**-8%**	**-8%**	**-7%**	**-8%**	**-11%**	**-16%**	**-15%**	**-12%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.17 CVP Total Generation

Table 5C.3.3.17.1 CVP Total Generation, Monthly Generation

No Action Alternative

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	409	413	641	689	671	696	492	616	619	756	585	630
20%	372	380	338	490	622	569	397	549	577	729	549	597
30%	329	310	240	381	471	363	358	514	561	705	536	469
40%	292	274	190	235	245	267	334	478	544	662	511	414
50%	270	231	175	201	205	229	318	464	527	644	496	342
60%	239	183	167	179	173	194	302	442	495	630	476	285
70%	210	162	146	152	141	171	282	415	479	598	451	250
80%	186	140	131	137	130	151	249	350	435	551	421	215
90%	159	118	105	120	110	141	217	291	350	474	359	184
Long Term												
Full Simulation Period[b]	273	255	260	317	322	329	343	461	514	631	487	376
Water Year Types[c]												
Wet (32%)	317	318	441	558	513	557	447	580	568	683	542	598
Above Normal (16%)	268	263	259	320	454	367	370	484	544	708	527	421
Below Normal (13%)	310	258	175	186	266	220	318	455	540	679	529	289
Dry (24%)	254	232	154	183	145	183	263	406	511	607	457	246
Critical (15%)	184	149	123	134	111	135	242	271	345	431	333	145

Alternative 1

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	295	659	692	684	702	486	626	696	779	637	441
20%	339	256	436	584	637	584	393	572	655	757	588	370
30%	303	233	242	439	446	357	350	535	623	732	569	334
40%	268	220	194	266	287	256	325	507	602	711	549	315
50%	236	204	182	211	220	232	313	493	577	683	525	297
60%	212	180	169	177	175	194	289	470	553	654	501	278
70%	201	168	148	156	141	177	276	445	530	627	477	258
80%	172	138	134	143	133	154	248	372	481	571	436	225
90%	152	125	112	121	115	141	217	318	390	470	389	186
Long Term												
Full Simulation Period[b]	256	215	278	336	331	334	334	481	569	655	514	305
Water Year Types[c]												
Wet (32%)	297	269	491	582	521	549	428	586	636	697	573	399
Above Normal (16%)	245	215	245	362	479	396	341	513	618	740	571	341
Below Normal (13%)	282	221	188	231	280	246	323	496	612	724	575	306
Dry (24%)	243	183	158	179	150	181	262	433	542	637	463	251
Critical (15%)	180	145	134	134	107	140	253	286	376	442	357	154

Alternative 1 minus No Action Alternative

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	**-29%**	3%	0%	2%	1%	-1%	2%	**12%**	3%	**9%**	**-30%**
20%	**-9%**	**-33%**	**29%**	**19%**	2%	3%	-1%	4%	**14%**	4%	**7%**	**-38%**
30%	**-8%**	**-25%**	1%	**15%**	**-5%**	-2%	-2%	4%	**11%**	4%	**6%**	**-29%**
40%	**-8%**	**-20%**	2%	**13%**	**17%**	-4%	-3%	**6%**	**11%**	**7%**	**7%**	**-24%**
50%	**-12%**	**-12%**	4%	**5%**	**7%**	1%	-2%	**6%**	**9%**	**6%**	**6%**	**-13%**
60%	**-12%**	-2%	1%	-1%	1%	0%	-4%	**6%**	**12%**	4%	**5%**	-2%
70%	-4%	3%	1%	3%	0%	4%	-2%	**7%**	**11%**	5%	**6%**	3%
80%	**-8%**	-2%	3%	4%	2%	2%	0%	**6%**	**11%**	4%	4%	4%
90%	-4%	**6%**	**7%**	1%	5%	0%	0%	**9%**	**11%**	-1%	**8%**	1%
Long Term												
Full Simulation Period[b]	**-6%**	**-16%**	**7%**	**6%**	3%	2%	-3%	5%	**11%**	4%	**6%**	**-19%**
Water Year Types[c]												
Wet (32%)	**-6%**	**-15%**	**11%**	4%	1%	-1%	-4%	1%	**12%**	2%	**6%**	**-33%**
Above Normal (16%)	**-8%**	**-18%**	**-6%**	**13%**	**6%**	**8%**	**-8%**	**6%**	**14%**	5%	**8%**	**-19%**
Below Normal (13%)	**-9%**	**-14%**	**7%**	**24%**	**5%**	**12%**	1%	**9%**	**13%**	**7%**	**9%**	**6%**
Dry (24%)	-4%	**-21%**	2%	-2%	4%	-1%	0%	**7%**	**6%**	5%	1%	2%
Critical (15%)	-2%	-3%	**9%**	0%	-4%	4%	5%	**6%**	**9%**	3%	**7%**	**6%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.17.2 CVP Total Generation, Monthly Generation

Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	295	659	692	684	702	486	626	696	779	637	441
20%	339	256	436	584	637	584	393	572	655	757	588	370
30%	303	233	242	439	446	357	350	535	623	732	569	334
40%	268	220	194	266	287	256	325	507	602	711	549	315
50%	236	204	182	211	220	232	313	493	577	683	525	297
60%	212	180	169	177	175	194	289	470	553	654	501	278
70%	201	168	148	156	141	177	276	445	530	627	477	258
80%	172	138	134	143	133	154	248	372	481	571	436	225
90%	152	125	112	121	115	141	217	318	390	470	389	186
Long Term												
Full Simulation Period[b]	256	215	278	336	331	334	334	481	569	655	514	305
Water Year Types[c]												
Wet (32%)	297	269	491	582	521	549	428	586	636	697	573	399
Above Normal (16%)	245	215	245	362	479	396	341	513	618	740	571	341
Below Normal (13%)	282	221	188	231	280	246	323	496	612	724	575	306
Dry (24%)	243	183	158	179	150	181	262	433	542	637	463	251
Critical (15%)	180	145	134	134	107	140	253	286	376	442	357	154

No Action Alternative

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	409	413	641	689	671	696	492	616	619	756	585	630
20%	372	380	338	490	622	569	397	549	577	729	549	597
30%	329	310	240	381	471	363	358	514	561	705	536	469
40%	292	274	190	235	245	267	334	478	544	662	511	414
50%	270	231	175	201	205	229	318	464	527	644	496	342
60%	239	183	167	179	173	194	302	442	495	630	476	285
70%	210	162	146	152	141	171	282	415	479	598	451	250
80%	186	140	131	137	130	151	249	350	435	551	421	215
90%	159	118	105	120	110	141	217	291	350	474	359	184
Long Term												
Full Simulation Period[b]	273	255	260	317	322	329	343	461	514	631	487	376
Water Year Types[c]												
Wet (32%)	317	318	441	558	513	557	447	580	568	683	542	598
Above Normal (16%)	268	263	259	320	454	367	370	484	544	708	527	421
Below Normal (13%)	310	258	175	186	266	220	318	455	540	679	529	289
Dry (24%)	254	232	154	183	145	183	263	406	511	607	457	246
Critical (15%)	184	149	123	134	111	135	242	271	345	431	333	145

No Action Alternative minus Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2%	40%	-3%	0%	-2%	-1%	1%	-1%	-11%	-3%	-8%	43%
20%	10%	49%	-22%	-16%	-2%	-2%	1%	-4%	-12%	-4%	-6%	61%
30%	8%	33%	-1%	-13%	6%	2%	2%	-4%	-10%	-4%	-6%	40%
40%	9%	25%	-2%	-11%	-14%	4%	3%	-6%	-10%	-7%	-7%	31%
50%	14%	13%	-4%	-5%	-7%	-1%	2%	-6%	-9%	-6%	-6%	15%
60%	13%	2%	-1%	1%	-1%	0%	4%	-6%	-10%	-4%	-5%	3%
70%	5%	-3%	-1%	-3%	0%	-4%	2%	-7%	-10%	-5%	-5%	-3%
80%	8%	2%	-2%	-4%	-2%	-2%	0%	-6%	-10%	-4%	-3%	-4%
90%	5%	-5%	-7%	-1%	-5%	0%	0%	-9%	-10%	1%	-8%	-1%
Long Term												
Full Simulation Period[b]	7%	19%	-6%	-6%	-3%	-2%	3%	-4%	-10%	-4%	-5%	23%
Water Year Types[c]												
Wet (32%)	7%	18%	-10%	-4%	-1%	1%	5%	-1%	-11%	-2%	-5%	50%
Above Normal (16%)	9%	22%	6%	-12%	-5%	-7%	8%	-6%	-12%	-4%	-8%	23%
Below Normal (13%)	10%	17%	-7%	-19%	-5%	-11%	-1%	-8%	-12%	-6%	-8%	-5%
Dry (24%)	5%	27%	-2%	2%	-4%	1%	0%	-6%	-6%	-5%	-1%	-2%
Critical (15%)	2%	3%	-8%	0%	4%	-4%	-4%	-5%	-8%	-2%	-7%	-6%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.17.3 CVP Total Generation, Monthly Generation

Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	295	659	692	684	702	486	626	696	779	637	441
20%	339	256	436	584	637	584	393	572	655	757	588	370
30%	303	233	242	439	446	357	350	535	623	732	569	334
40%	268	220	194	266	287	256	325	507	602	711	549	315
50%	236	204	182	211	220	232	313	493	577	683	525	297
60%	212	180	169	177	175	194	289	470	553	654	501	278
70%	201	168	148	156	141	177	276	445	530	627	477	258
80%	172	138	134	143	133	154	248	372	481	571	436	225
90%	152	125	112	121	115	141	217	318	390	470	389	186
Long Term												
Full Simulation Period[b]	256	215	278	336	331	334	334	481	569	655	514	305
Water Year Types[c]												
Wet (32%)	297	269	491	582	521	549	428	586	636	697	573	399
Above Normal (16%)	245	215	245	362	479	396	341	513	618	740	571	341
Below Normal (13%)	282	221	188	231	280	246	323	496	612	724	575	306
Dry (24%)	243	183	158	179	150	181	262	433	542	637	463	251
Critical (15%)	180	145	134	134	107	140	253	286	376	442	357	154

Alternative 3

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	306	662	691	701	710	489	598	648	775	610	459
20%	342	256	426	590	650	583	393	551	635	759	578	387
30%	314	227	242	427	458	367	360	507	590	741	557	358
40%	275	216	199	254	283	258	330	493	564	720	538	328
50%	245	204	181	203	220	223	314	469	548	678	525	302
60%	222	180	170	173	179	192	291	442	518	657	513	279
70%	202	164	149	156	142	171	271	421	511	624	482	257
80%	176	145	133	134	128	153	250	363	453	561	445	227
90%	158	124	113	122	109	136	222	300	381	474	387	191
Long Term												
Full Simulation Period[b]	262	215	279	333	336	335	338	462	542	658	512	314
Water Year Types[c]												
Wet (32%)	298	268	493	584	537	551	430	562	593	712	576	407
Above Normal (16%)	249	222	245	350	477	401	346	482	580	736	550	341
Below Normal (13%)	284	211	187	228	283	245	332	476	580	711	557	347
Dry (24%)	256	184	162	175	146	180	265	416	532	635	471	251
Critical (15%)	189	150	132	130	113	139	253	285	373	445	360	160

Alternative 3 minus Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	4%	1%	0%	2%	1%	1%	-4%	**-7%**	0%	-4%	4%
20%	1%	0%	-2%	1%	2%	0%	0%	-4%	-3%	0%	-2%	5%
30%	4%	-3%	0%	-3%	3%	3%	3%	**-5%**	**-5%**	1%	-2%	**7%**
40%	2%	-2%	3%	-4%	-1%	1%	2%	-3%	**-6%**	1%	-2%	4%
50%	4%	0%	-1%	-4%	0%	-4%	0%	-5%	-5%	-1%	0%	2%
60%	5%	0%	1%	-2%	2%	-1%	1%	**-6%**	**-6%**	1%	2%	0%
70%	1%	-2%	1%	0%	1%	-3%	-2%	**-5%**	-4%	-1%	1%	0%
80%	2%	**5%**	-1%	**-6%**	-4%	-1%	1%	-3%	**-6%**	-2%	2%	1%
90%	4%	-1%	1%	0%	**-6%**	-4%	2%	**-6%**	-2%	1%	-1%	3%
Long Term												
Full Simulation Period[b]	2%	0%	1%	-1%	2%	0%	1%	-4%	-5%	0%	0%	3%
Water Year Types[c]												
Wet (32%)	0%	-1%	1%	0%	3%	0%	1%	-4%	**-7%**	2%	1%	2%
Above Normal (16%)	2%	3%	0%	-3%	0%	1%	1%	**-6%**	**-6%**	-1%	-4%	0%
Below Normal (13%)	1%	-5%	0%	-1%	1%	-1%	3%	-4%	**-5%**	-2%	-3%	**14%**
Dry (24%)	**5%**	1%	3%	-2%	-3%	0%	1%	-4%	-2%	0%	2%	0%
Critical (15%)	**5%**	4%	-2%	-3%	**6%**	-1%	0%	0%	-1%	1%	1%	4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.17.4 CVP Total Generation, Monthly Generation

Second Basis of Comparison

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	415	295	659	692	684	702	486	626	696	779	637	441
20%	339	256	436	584	637	584	393	572	655	757	588	370
30%	303	233	242	439	446	357	350	535	623	732	569	334
40%	268	220	194	266	287	256	325	507	602	711	549	315
50%	236	204	182	211	220	232	313	493	577	683	525	297
60%	212	180	169	177	175	194	289	470	553	654	501	278
70%	201	168	148	156	141	177	276	445	530	627	477	258
80%	172	138	134	143	133	154	248	372	481	571	436	225
90%	152	125	112	121	115	141	217	318	390	470	389	186
Long Term												
Full Simulation Period[b]	256	215	278	336	331	334	334	481	569	655	514	305
Water Year Types[c]												
Wet (32%)	297	269	491	582	521	549	428	586	636	697	573	399
Above Normal (16%)	245	215	245	362	479	396	341	513	618	740	571	341
Below Normal (13%)	282	221	188	231	280	246	323	496	612	724	575	306
Dry (24%)	243	183	158	179	150	181	262	433	542	637	463	251
Critical (15%)	180	145	134	134	107	140	253	286	376	442	357	154

Alternative 5

	Monthly Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	404	410	647	689	671	694	491	627	618	752	574	628
20%	365	380	341	486	622	563	404	562	578	722	553	598
30%	328	316	236	381	459	362	368	513	557	705	534	468
40%	284	281	188	233	245	266	334	482	541	660	514	418
50%	269	226	173	201	205	229	327	460	525	648	498	351
60%	244	182	163	178	173	199	304	439	493	634	471	277
70%	220	161	145	153	139	170	281	412	472	601	451	248
80%	183	140	131	137	127	151	258	343	432	548	416	217
90%	155	113	102	120	108	136	233	308	350	463	365	184
Long Term												
Full Simulation Period[b]	273	254	258	317	321	328	348	463	509	628	485	378
Water Year Types[c]												
Wet (32%)	313	320	438	558	512	554	446	585	567	685	538	598
Above Normal (16%)	266	254	259	321	454	368	370	489	542	708	523	419
Below Normal (13%)	307	257	173	186	265	221	334	458	533	675	520	294
Dry (24%)	254	231	153	183	145	183	273	404	505	604	459	247
Critical (15%)	192	149	120	135	110	132	250	270	336	414	337	153

Alternative 5 minus Second Basis of Comparison

	Monthly Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3%	**39%**	-2%	0%	-2%	-1%	1%	0%	**-11%**	-3%	**-10%**	**42%**
20%	**8%**	**48%**	**-22%**	**-17%**	-2%	-4%	3%	-2%	**-12%**	-5%	**-6%**	**62%**
30%	**8%**	**36%**	-2%	**-13%**	3%	1%	**5%**	-4%	**-11%**	-4%	**-6%**	**40%**
40%	**6%**	**28%**	-3%	**-12%**	**-14%**	4%	3%	-5%	**-10%**	**-7%**	**-6%**	**33%**
50%	**14%**	**11%**	**-5%**	-5%	**-7%**	-1%	4%	**-7%**	**-9%**	**-5%**	**-5%**	**18%**
60%	**15%**	1%	-4%	1%	-1%	3%	**5%**	**-7%**	**-11%**	-3%	**-6%**	0%
70%	**10%**	-4%	-2%	-2%	-2%	-4%	2%	**-7%**	**-11%**	-4%	**-5%**	-4%
80%	**6%**	1%	-2%	-4%	-4%	-2%	4%	**-8%**	**-10%**	-4%	-5%	-4%
90%	2%	**-9%**	**-9%**	-1%	**-6%**	-3%	**7%**	-3%	**-10%**	-2%	**-6%**	-1%
Long Term												
Full Simulation Period[b]	**6%**	**18%**	**-7%**	**-6%**	-3%	-2%	4%	-4%	**-10%**	-4%	**-6%**	**24%**
Water Year Types[c]												
Wet (32%)	**6%**	**19%**	**-11%**	-4%	-2%	1%	4%	0%	**-11%**	-2%	**-6%**	**50%**
Above Normal (16%)	**8%**	**18%**	**6%**	**-11%**	**-5%**	**-7%**	**8%**	-5%	**-12%**	-4%	**-8%**	**23%**
Below Normal (13%)	**9%**	**16%**	**-7%**	**-20%**	**-5%**	**-10%**	3%	**-8%**	**-13%**	**-7%**	**-10%**	-4%
Dry (24%)	4%	**26%**	-3%	3%	-4%	1%	4%	**-7%**	**-7%**	**-5%**	-1%	-2%
Critical (15%)	**7%**	3%	**-10%**	0%	3%	**-6%**	-1%	**-6%**	**-11%**	**-6%**	**-5%**	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.18 CVP Total Energy Use

Table 5C.3.3.18.1 CVP Total Energy Use, Monthly Energy Use

No Action Alternative

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	111	171	154	153	146	149	60	69	128	153	133	106
20%	95	150	149	131	133	138	43	46	103	139	122	105
30%	85	139	142	118	115	109	37	41	88	122	114	103
40%	76	129	134	113	99	98	35	39	78	114	109	96
50%	72	105	129	110	94	75	32	36	65	104	102	87
60%	67	93	123	105	85	65	31	33	58	93	94	76
70%	62	81	115	95	72	61	29	30	44	84	79	68
80%	57	65	96	83	47	46	25	26	34	69	59	58
90%	54	58	74	71	31	22	21	21	21	42	36	45
Long Term												
Full Simulation Period[b]	76	111	121	108	92	86	36	40	71	101	93	82
Water Year Types[c]												
Wet (32%)	81	125	130	124	125	122	50	58	113	132	119	94
Above Normal (16%)	74	120	123	97	91	104	36	40	85	99	108	87
Below Normal (13%)	79	122	132	107	84	76	30	33	61	106	106	92
Dry (24%)	76	103	120	108	77	64	30	30	42	90	65	72
Critical (15%)	65	73	89	85	52	31	21	22	22	51	56	57

Alternative 1

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	151	163	173	183	144	83	90	114	161	182	109
20%	121	141	160	167	149	127	81	65	105	156	154	108
30%	117	139	157	164	143	101	80	59	96	145	132	107
40%	96	134	156	162	139	80	75	54	91	140	128	106
50%	74	124	152	160	135	69	69	47	88	131	124	104
60%	67	109	144	158	116	67	59	45	78	119	109	90
70%	57	96	127	151	84	62	49	38	65	98	86	81
80%	46	80	111	124	55	52	36	29	43	85	63	68
90%	34	66	87	81	27	30	22	23	26	43	39	49
Long Term												
Full Simulation Period[b]	85	115	136	149	115	84	60	51	78	119	113	93
Water Year Types[c]												
Wet (32%)	100	132	154	168	139	94	77	69	102	145	150	110
Above Normal (16%)	76	116	136	151	128	94	78	58	100	129	135	117
Below Normal (13%)	92	134	148	158	104	85	61	52	85	146	137	94
Dry (24%)	86	103	124	143	104	83	44	36	55	107	68	75
Critical (15%)	53	78	106	105	79	50	30	26	30	46	63	56

Alternative 1 minus No Action Alternative

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	23%	-12%	6%	13%	26%	-3%	39%	31%	-11%	6%	37%	3%
20%	27%	-6%	7%	27%	12%	-8%	89%	41%	2%	12%	27%	3%
30%	38%	-1%	11%	40%	24%	-7%	113%	44%	10%	19%	16%	3%
40%	26%	4%	16%	43%	41%	-19%	116%	38%	17%	23%	18%	10%
50%	4%	18%	18%	45%	44%	-8%	112%	33%	34%	26%	22%	20%
60%	0%	17%	17%	50%	36%	3%	92%	36%	34%	28%	16%	17%
70%	-8%	18%	10%	58%	17%	2%	69%	25%	46%	17%	9%	19%
80%	-20%	24%	15%	51%	17%	13%	44%	11%	28%	23%	6%	18%
90%	-38%	14%	17%	15%	-13%	34%	4%	8%	23%	2%	7%	10%
Long Term												
Full Simulation Period[b]	11%	4%	13%	37%	26%	-2%	67%	26%	9%	17%	21%	13%
Water Year Types[c]												
Wet (32%)	22%	5%	19%	35%	12%	-23%	54%	18%	-10%	9%	26%	17%
Above Normal (16%)	2%	-3%	11%	56%	41%	-10%	118%	42%	18%	30%	25%	34%
Below Normal (13%)	17%	10%	12%	48%	24%	11%	104%	56%	38%	38%	30%	2%
Dry (24%)	12%	0%	3%	32%	35%	30%	44%	20%	32%	19%	4%	4%
Critical (15%)	-18%	6%	19%	22%	51%	64%	46%	15%	34%	-9%	12%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.18.2 CVP Total Energy Use, Monthly Energy Use

Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	151	163	173	183	144	83	90	114	161	182	109
20%	121	141	160	167	149	127	81	65	105	156	154	108
30%	117	139	157	164	143	101	80	59	96	145	132	107
40%	96	134	156	162	139	80	75	54	91	140	128	106
50%	74	124	152	160	135	69	69	47	88	131	124	104
60%	67	109	144	158	116	67	59	45	78	119	109	90
70%	57	96	127	151	84	62	49	38	65	98	86	81
80%	46	80	111	124	55	52	36	29	43	85	63	68
90%	34	66	87	81	27	30	22	23	26	43	39	49
Long Term												
Full Simulation Period[b]	85	115	136	149	115	84	60	51	78	119	113	93
Water Year Types[c]												
Wet (32%)	100	132	154	168	139	94	77	69	102	145	150	110
Above Normal (16%)	76	116	136	151	128	94	78	58	100	129	135	117
Below Normal (13%)	92	134	148	158	104	85	61	52	85	146	137	94
Dry (24%)	86	103	124	143	104	83	44	36	55	107	68	75
Critical (15%)	53	78	106	105	79	50	30	26	30	46	63	56

No Action Alternative

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	111	171	154	153	146	149	60	69	128	153	133	106
20%	95	150	149	131	133	138	43	46	103	139	122	105
30%	85	139	142	118	115	109	37	41	88	122	114	103
40%	76	129	134	113	99	98	35	39	78	114	109	96
50%	72	105	129	110	94	75	32	36	65	104	102	87
60%	67	93	123	105	85	65	31	33	58	93	94	76
70%	62	81	115	95	72	61	29	30	44	84	79	68
80%	57	65	96	83	47	46	25	26	34	69	59	58
90%	54	58	74	71	31	22	21	21	21	42	36	45
Long Term												
Full Simulation Period[b]	76	111	121	108	92	86	36	40	71	101	93	82
Water Year Types[c]												
Wet (32%)	81	125	130	124	125	122	50	58	113	132	119	94
Above Normal (16%)	74	120	123	97	91	104	36	40	85	99	108	87
Below Normal (13%)	79	122	132	107	84	76	30	33	61	106	106	92
Dry (24%)	76	103	120	108	77	64	30	30	42	90	65	72
Critical (15%)	65	73	89	85	52	31	21	22	22	51	56	57

No Action Alternative minus Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-19%	14%	-5%	-12%	-20%	3%	-28%	-24%	12%	-5%	-27%	-3%
20%	-21%	7%	-7%	-22%	-10%	9%	-47%	-29%	-2%	-11%	-21%	-2%
30%	-28%	1%	-10%	-28%	-20%	7%	-53%	-31%	-9%	-16%	-14%	-3%
40%	-21%	-4%	-14%	-30%	-29%	23%	-54%	-28%	-15%	-19%	-15%	-9%
50%	-4%	-15%	-15%	-31%	-30%	8%	-53%	-25%	-26%	-21%	-18%	-17%
60%	0%	-15%	-15%	-33%	-26%	-3%	-48%	-27%	-25%	-22%	-14%	-15%
70%	9%	-16%	-9%	-37%	-15%	-2%	-41%	-20%	-31%	-14%	-8%	-16%
80%	25%	-19%	-13%	-34%	-15%	-12%	-30%	-10%	-22%	-19%	-6%	-15%
90%	62%	-12%	-15%	-13%	15%	-26%	-4%	-7%	-19%	-2%	-6%	-9%
Long Term												
Full Simulation Period[b]	-10%	-3%	-11%	-27%	-21%	2%	-40%	-21%	-8%	-15%	-18%	-12%
Water Year Types[c]												
Wet (32%)	-18%	-5%	-16%	-26%	-10%	30%	-35%	-15%	11%	-9%	-20%	-15%
Above Normal (16%)	-2%	3%	-10%	-36%	-29%	11%	-54%	-30%	-15%	-23%	-20%	-26%
Below Normal (13%)	-14%	-9%	-11%	-32%	-19%	-10%	-51%	-36%	-28%	-28%	-23%	-2%
Dry (24%)	-11%	0%	-3%	-24%	-26%	-23%	-30%	-17%	-24%	-16%	-4%	-4%
Critical (15%)	22%	-6%	-16%	-18%	-34%	-39%	-31%	-13%	-25%	10%	-11%	1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.18.3 CVP Total Energy Use, Monthly Energy Use

Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	151	163	173	183	144	83	90	114	161	182	109
20%	121	141	160	167	149	127	81	65	105	156	154	108
30%	117	139	157	164	143	101	80	59	96	145	132	107
40%	96	134	156	162	139	80	75	54	91	140	128	106
50%	74	124	152	160	135	69	69	47	88	131	124	104
60%	67	109	144	158	116	67	59	45	78	119	109	90
70%	57	96	127	151	84	62	49	38	65	98	86	81
80%	46	80	111	124	55	52	36	29	43	85	63	68
90%	34	66	87	81	27	30	22	23	26	43	39	49
Long Term												
Full Simulation Period[b]	85	115	136	149	115	84	60	51	78	119	113	93
Water Year Types[c]												
Wet (32%)	100	132	154	168	139	94	77	69	102	145	150	110
Above Normal (16%)	76	116	136	151	128	94	78	58	100	129	135	117
Below Normal (13%)	92	134	148	158	104	85	61	52	85	146	137	94
Dry (24%)	86	103	124	143	104	83	44	36	55	107	68	75
Critical (15%)	53	78	106	105	79	50	30	26	30	46	63	56

Alternative 3

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	143	149	161	165	151	147	87	99	142	154	156	139
20%	124	140	157	131	142	139	82	89	122	146	134	112
30%	119	138	154	120	126	100	81	79	106	139	132	107
40%	108	128	143	117	105	78	79	72	100	128	128	106
50%	86	118	140	110	91	72	72	66	91	118	113	105
60%	70	107	131	104	75	64	64	53	80	103	99	95
70%	63	95	122	93	65	62	46	40	59	87	83	85
80%	52	82	102	84	54	51	35	30	41	71	62	63
90%	46	66	73	76	31	24	23	23	24	46	41	45
Long Term												
Full Simulation Period[b]	91	113	129	109	95	85	62	62	85	109	106	97
Water Year Types[c]												
Wet (32%)	101	130	144	128	135	108	83	87	125	139	140	113
Above Normal (16%)	83	113	122	93	96	125	77	74	105	115	121	111
Below Normal (13%)	94	130	144	111	85	78	56	58	86	123	117	126
Dry (24%)	97	104	126	108	75	65	49	44	54	98	75	74
Critical (15%)	64	78	97	85	53	31	30	25	27	43	55	58

Alternative 3 minus Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4%	-1%	-1%	-5%	**-18%**	2%	**5%**	**11%**	**24%**	-5%	**-14%**	**27%**
20%	2%	-1%	-1%	**-21%**	-5%	**9%**	1%	**38%**	**17%**	**-7%**	**-13%**	4%
30%	2%	0%	-2%	**-27%**	**-12%**	-1%	2%	**34%**	**11%**	-4%	0%	1%
40%	**13%**	-5%	**-8%**	**-28%**	**-25%**	-2%	**6%**	**34%**	**10%**	**-9%**	0%	0%
50%	**15%**	-4%	**-8%**	**-31%**	**-32%**	4%	4%	**40%**	3%	**-10%**	**-8%**	0%
60%	5%	-2%	**-9%**	**-34%**	**-35%**	-4%	**9%**	**19%**	3%	**-14%**	**-9%**	**7%**
70%	**10%**	-1%	-3%	**-39%**	**-23%**	0%	**-6%**	5%	**-9%**	**-12%**	-4%	**5%**
80%	**14%**	3%	**-8%**	**-32%**	-2%	-2%	-2%	**5%**	-4%	**-16%**	-1%	**-8%**
90%	**36%**	0%	**-16%**	**-7%**	**12%**	**-21%**	**6%**	0%	**-7%**	**8%**	**7%**	**-7%**
Long Term												
Full Simulation Period[b]	**7%**	-1%	-5%	**-27%**	**-17%**	2%	4%	**22%**	**10%**	**-8%**	**-6%**	5%
Water Year Types[c]												
Wet (32%)	1%	-1%	**-7%**	**-24%**	-3%	**15%**	**8%**	**26%**	**23%**	-4%	**-6%**	2%
Above Normal (16%)	**10%**	-3%	**-10%**	**-38%**	**-25%**	**33%**	-2%	**29%**	5%	**-11%**	**-10%**	**-5%**
Below Normal (13%)	2%	-3%	-2%	**-30%**	**-18%**	**-8%**	**-9%**	**13%**	2%	**-16%**	**-15%**	**34%**
Dry (24%)	**13%**	1%	2%	**-24%**	**-28%**	**-21%**	**12%**	**20%**	-2%	**-8%**	**11%**	-1%
Critical (15%)	**20%**	0%	**-8%**	**-18%**	**-33%**	**-39%**	0%	-2%	**-11%**	**-7%**	**-12%**	4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.18.4 CVP Total Energy Use, Monthly Energy Use

Second Basis of Comparison

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	137	151	163	173	183	144	83	90	114	161	182	109
20%	121	141	160	167	149	127	81	65	105	156	154	108
30%	117	139	157	164	143	101	80	59	96	145	132	107
40%	96	134	156	162	139	80	75	54	91	140	128	106
50%	74	124	152	160	135	69	69	47	88	131	124	104
60%	67	109	144	158	116	67	59	45	78	119	109	90
70%	57	96	127	151	84	62	49	38	65	98	86	81
80%	46	80	111	124	55	52	36	29	43	85	63	68
90%	34	66	87	81	27	30	22	23	26	43	39	49
Long Term												
Full Simulation Period[b]	85	115	136	149	115	84	60	51	78	119	113	93
Water Year Types[c]												
Wet (32%)	100	132	154	168	139	94	77	69	102	145	150	110
Above Normal (16%)	76	116	136	151	128	94	78	58	100	129	135	117
Below Normal (13%)	92	134	148	158	104	85	61	52	85	146	137	94
Dry (24%)	86	103	124	143	104	83	44	36	55	107	68	75
Critical (15%)	53	78	106	105	79	50	30	26	30	46	63	56

Alternative 5

	Monthly Energy Use (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	106	174	154	153	146	153	59	68	128	155	132	106
20%	94	153	151	134	134	138	41	44	103	140	121	105
30%	85	140	142	120	116	109	35	40	86	122	113	102
40%	75	126	135	114	104	99	32	37	77	115	110	95
50%	72	106	128	110	94	75	30	33	65	105	102	90
60%	69	92	123	104	86	65	29	30	57	94	94	76
70%	63	74	115	95	71	61	24	22	46	88	80	70
80%	59	65	92	83	46	48	18	16	32	74	63	58
90%	54	56	68	71	32	22	13	12	24	50	49	47
Long Term												
Full Simulation Period[b]	76	110	121	109	92	86	33	36	71	103	95	82
Water Year Types[c]												
Wet (32%)	81	129	131	125	124	123	50	58	113	132	119	93
Above Normal (16%)	75	112	122	100	90	104	35	40	84	100	107	86
Below Normal (13%)	76	122	132	107	90	77	28	30	62	106	100	96
Dry (24%)	74	101	121	108	77	64	23	21	43	96	71	74
Critical (15%)	69	73	86	88	54	30	13	13	22	56	64	56

Alternative 5 minus Second Basis of Comparison

	Monthly Energy Use (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-23%	16%	-5%	-12%	-20%	6%	-29%	-25%	12%	-4%	-27%	-3%
20%	-22%	9%	-5%	-20%	-10%	8%	-49%	-32%	-1%	-10%	-22%	-2%
30%	-27%	1%	-10%	-27%	-19%	8%	-56%	-32%	-10%	-16%	-15%	-4%
40%	-21%	-6%	-13%	-30%	-25%	23%	-57%	-32%	-16%	-18%	-14%	-10%
50%	-3%	-15%	-16%	-31%	-30%	9%	-56%	-31%	-26%	-20%	-17%	-14%
60%	4%	-16%	-15%	-34%	-26%	-3%	-51%	-33%	-26%	-21%	-14%	-15%
70%	11%	-23%	-9%	-37%	-15%	-3%	-52%	-41%	-29%	-10%	-7%	-14%
80%	28%	-19%	-17%	-33%	-16%	-8%	-49%	-44%	-26%	-13%	0%	-16%
90%	60%	-16%	-21%	-13%	17%	-26%	-41%	-49%	-8%	17%	27%	-4%
Long Term												
Full Simulation Period[b]	-10%	-4%	-11%	-27%	-20%	2%	-46%	-29%	-8%	-13%	-16%	-11%
Water Year Types[c]												
Wet (32%)	-19%	-2%	-16%	-26%	-11%	30%	-36%	-15%	10%	-9%	-20%	-16%
Above Normal (16%)	0%	-4%	-10%	-34%	-30%	11%	-55%	-31%	-16%	-23%	-21%	-26%
Below Normal (13%)	-17%	-9%	-11%	-32%	-14%	-9%	-54%	-43%	-27%	-28%	-27%	3%
Dry (24%)	-13%	-2%	-2%	-25%	-26%	-23%	-48%	-42%	-21%	-10%	5%	-2%
Critical (15%)	29%	-6%	-18%	-16%	-31%	-40%	-56%	-48%	-26%	21%	1%	0%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.19 CVP Net Energy Use

Table 5C.3.3.19.1 CVP Net Generation, Monthly Net Generation

No Action Alternative

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	324	257	523	556	567	564	449	560	543	664	474	528
20%	283	220	218	372	491	444	355	513	500	624	446	491
30%	249	195	116	257	358	262	325	468	476	596	427	366
40%	216	162	72	147	163	169	304	441	452	558	418	344
50%	200	112	49	104	110	150	285	424	438	537	405	246
60%	154	96	42	71	94	133	270	404	426	508	381	198
70%	134	71	30	50	71	109	248	383	410	480	366	183
80%	119	56	18	37	54	95	225	327	377	450	347	150
90%	86	40	-1	24	36	72	198	262	332	400	302	104
Long Term												
Full Simulation Period[b]	197	145	139	209	230	243	307	420	443	530	393	295
Water Year Types[c]												
Wet (32%)	236	193	311	433	389	435	397	522	455	551	423	504
Above Normal (16%)	193	143	136	223	363	263	334	443	459	608	419	334
Below Normal (13%)	231	137	43	79	181	144	288	422	478	573	423	198
Dry (24%)	178	128	34	74	67	119	233	376	469	518	391	174
Critical (15%)	118	76	34	48	59	104	221	249	323	380	276	89

Alternative 1

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	285	162	524	558	567	562	404	561	600	638	480	291
20%	239	132	272	412	486	482	324	519	577	622	463	256
30%	195	103	114	288	296	288	297	481	531	602	438	227
40%	173	87	72	135	208	188	273	461	517	579	422	217
50%	162	81	43	78	114	155	255	444	488	547	405	205
60%	152	75	33	30	74	132	238	413	469	518	393	189
70%	138	58	24	18	53	108	214	384	454	493	369	179
80%	106	50	12	6	20	86	194	343	407	463	356	155
90%	92	32	-10	-8	-7	65	162	292	363	398	321	98
Long Term												
Full Simulation Period[b]	172	100	142	187	215	251	274	431	491	537	401	213
Water Year Types[c]												
Wet (32%)	197	138	336	414	382	455	351	517	533	552	423	289
Above Normal (16%)	169	99	109	211	351	302	263	456	517	611	436	224
Below Normal (13%)	189	87	40	73	176	161	262	444	527	577	438	212
Dry (24%)	158	80	34	35	46	98	219	397	487	530	395	176
Critical (15%)	126	67	28	30	28	90	223	261	346	395	294	98

Alternative 1 minus No Action Alternative

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-12%	-37%	0%	0%	0%	0%	-10%	0%	11%	-4%	1%	-45%
20%	-16%	-40%	25%	11%	-1%	9%	-9%	1%	15%	0%	4%	-48%
30%	-22%	-47%	-1%	12%	-17%	10%	-9%	3%	11%	1%	3%	-38%
40%	-20%	-46%	0%	-8%	28%	11%	-10%	4%	14%	4%	1%	-37%
50%	-19%	-28%	-12%	-25%	4%	3%	-10%	5%	11%	2%	0%	-17%
60%	-2%	-22%	-22%	-57%	-22%	-1%	-12%	2%	10%	2%	3%	-5%
70%	3%	-17%	-19%	-64%	-26%	-1%	-14%	0%	11%	3%	1%	-2%
80%	-11%	-10%	-32%	-84%	-63%	-10%	-14%	5%	8%	3%	2%	3%
90%	7%	-19%	1388%	-134%	-120%	-10%	-18%	11%	9%	0%	6%	-5%
Long Term												
Full Simulation Period[b]	-13%	-31%	2%	-10%	-6%	3%	-11%	2%	11%	1%	2%	-28%
Water Year Types[c]												
Wet (32%)	-16%	-29%	8%	-5%	-2%	5%	-12%	-1%	17%	0%	0%	-43%
Above Normal (16%)	-12%	-31%	-20%	-5%	-3%	15%	-21%	3%	13%	0%	4%	-33%
Below Normal (13%)	-18%	-36%	-7%	-8%	-3%	12%	-9%	5%	10%	1%	4%	7%
Dry (24%)	-11%	-38%	0%	-52%	-32%	-18%	-6%	6%	4%	2%	1%	1%
Critical (15%)	7%	-12%	-18%	-38%	-53%	-14%	1%	5%	7%	4%	6%	11%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.19.2 CVP Net Generation, Monthly Net Generation

Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	285	162	524	558	567	562	404	561	600	638	480	291
20%	239	132	272	412	486	482	324	519	577	622	463	256
30%	195	103	114	288	296	288	297	481	531	602	438	227
40%	173	87	72	135	208	188	273	461	517	579	422	217
50%	162	81	43	78	114	155	255	444	488	547	405	205
60%	152	75	33	30	74	132	238	413	469	518	393	189
70%	138	58	24	18	53	108	214	384	454	493	369	179
80%	106	50	12	6	20	86	194	343	407	463	356	155
90%	92	32	-10	-8	-7	65	162	292	363	398	321	98
Long Term												
Full Simulation Period[b]	172	100	142	187	215	251	274	431	491	537	401	213
Water Year Types[c]												
Wet (32%)	197	138	336	414	382	455	351	517	533	552	423	289
Above Normal (16%)	169	99	109	211	351	302	263	456	517	611	436	224
Below Normal (13%)	189	87	40	73	176	161	262	444	527	577	438	212
Dry (24%)	158	80	34	35	46	98	219	397	487	530	395	176
Critical (15%)	126	67	28	30	28	90	223	261	346	395	294	98

No Action Alternative

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	324	257	523	556	567	564	449	560	543	664	474	528
20%	283	220	218	372	491	444	355	513	500	624	446	491
30%	249	195	116	257	358	262	325	468	476	596	427	366
40%	216	162	72	147	163	169	304	441	452	558	418	344
50%	200	112	49	104	110	150	285	424	438	537	405	246
60%	154	96	42	71	94	133	270	404	426	508	381	198
70%	134	71	30	50	71	109	248	383	410	480	366	183
80%	119	56	18	37	54	95	225	327	377	450	347	150
90%	86	40	-1	24	36	72	198	262	332	400	302	104
Long Term												
Full Simulation Period[b]	197	145	139	209	230	243	307	420	443	530	393	295
Water Year Types[c]												
Wet (32%)	236	193	311	433	389	435	397	522	455	551	423	504
Above Normal (16%)	193	143	136	223	363	263	334	443	459	608	419	334
Below Normal (13%)	231	137	43	79	181	144	288	422	478	573	423	198
Dry (24%)	178	128	34	74	67	119	233	376	469	518	391	174
Critical (15%)	118	76	34	48	59	104	221	249	323	380	276	89

No Action Alternative minus Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14%	59%	0%	0%	0%	0%	11%	0%	-10%	4%	-1%	81%
20%	18%	66%	-20%	-10%	1%	-8%	10%	-1%	-13%	0%	-4%	92%
30%	27%	90%	1%	-11%	21%	-9%	10%	-3%	-10%	-1%	-2%	61%
40%	25%	86%	0%	8%	-22%	-10%	12%	-4%	-13%	-4%	-1%	58%
50%	24%	39%	14%	34%	-3%	-3%	12%	-4%	-10%	-2%	0%	20%
60%	2%	29%	29%	134%	27%	1%	13%	-2%	-9%	-2%	-3%	5%
70%	-3%	21%	24%	176%	34%	1%	16%	0%	-10%	-3%	-1%	2%
80%	12%	12%	47%	513%	167%	11%	16%	-4%	-7%	-3%	-2%	-3%
90%	-7%	24%	-93%	-394%	-606%	11%	22%	-10%	-9%	0%	-6%	6%
Long Term												
Full Simulation Period[b]	15%	44%	-2%	11%	7%	-3%	12%	-2%	-10%	-1%	-2%	38%
Water Year Types[c]												
Wet (32%)	19%	40%	-8%	5%	2%	-4%	13%	1%	-15%	0%	0%	74%
Above Normal (16%)	14%	44%	25%	5%	3%	-13%	27%	-3%	-11%	0%	-4%	49%
Below Normal (13%)	22%	57%	8%	9%	3%	-11%	10%	-5%	-9%	-1%	-3%	-7%
Dry (24%)	13%	61%	0%	110%	47%	22%	7%	-5%	-4%	-2%	-1%	-1%
Critical (15%)	-6%	14%	22%	62%	111%	16%	-1%	-5%	-7%	-4%	-6%	-10%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.19.3 CVP Net Generation, Monthly Net Generation

Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	285	162	524	558	567	562	404	561	600	638	480	291
20%	239	132	272	412	486	482	324	519	577	622	463	256
30%	195	103	114	288	296	288	297	481	531	602	438	227
40%	173	87	72	135	208	188	273	461	517	579	422	217
50%	162	81	43	78	114	155	255	444	488	547	405	205
60%	152	75	33	30	74	132	238	413	469	518	393	189
70%	138	58	24	18	53	108	214	384	454	493	369	179
80%	106	50	12	6	20	86	194	343	407	463	356	155
90%	92	32	-10	-8	-7	65	162	292	363	398	321	98
Long Term												
Full Simulation Period[b]	172	100	142	187	215	251	274	431	491	537	401	213
Water Year Types[c]												
Wet (32%)	197	138	336	414	382	455	351	517	533	552	423	289
Above Normal (16%)	169	99	109	211	351	302	263	456	517	611	436	224
Below Normal (13%)	189	87	40	73	176	161	262	444	527	577	438	212
Dry (24%)	158	80	34	35	46	98	219	397	487	530	395	176
Critical (15%)	126	67	28	30	28	90	223	261	346	395	294	98

Alternative 3

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	291	182	530	558	606	583	437	534	563	674	481	336
20%	235	125	266	480	511	511	316	479	531	638	465	266
30%	193	104	114	332	334	287	298	459	508	622	441	246
40%	173	91	74	160	183	189	268	439	473	596	424	216
50%	158	77	52	112	122	150	251	392	448	544	409	205
60%	147	66	39	72	84	122	229	374	433	528	387	195
70%	133	60	25	51	71	106	216	348	411	506	374	181
80%	113	52	12	36	56	92	200	316	387	469	362	155
90%	88	31	-6	18	41	71	174	260	340	397	326	104
Long Term												
Full Simulation Period[b]	172	102	150	224	241	250	275	400	457	549	406	217
Water Year Types[c]												
Wet (32%)	197	137	349	456	402	443	347	475	467	572	436	294
Above Normal (16%)	166	109	123	257	381	276	269	408	475	621	429	230
Below Normal (13%)	190	81	42	117	198	167	276	418	493	588	440	221
Dry (24%)	160	81	36	67	71	115	217	372	478	537	396	177
Critical (15%)	125	73	35	45	60	108	223	260	346	402	305	101

Alternative 3 minus Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2%	**13%**	1%	0%	**7%**	4%	**8%**	-5%	**-6%**	**6%**	0%	**15%**
20%	-2%	**-5%**	-2%	**16%**	**5%**	**6%**	-2%	**-8%**	**-8%**	3%	0%	4%
30%	-1%	2%	0%	**16%**	**13%**	-1%	1%	-5%	-4%	3%	1%	**8%**
40%	0%	5%	2%	**18%**	**-12%**	1%	-2%	-5%	**-8%**	3%	1%	-1%
50%	-3%	-4%	**19%**	**44%**	**7%**	-3%	-2%	**-12%**	**-8%**	-1%	1%	0%
60%	-3%	**-12%**	**18%**	**138%**	**13%**	**-7%**	-4%	**-9%**	**-8%**	2%	-2%	3%
70%	-4%	2%	3%	**181%**	**36%**	-3%	1%	**-9%**	**-10%**	3%	1%	1%
80%	**6%**	4%	-5%	**490%**	**174%**	**7%**	3%	**-8%**	**-5%**	1%	2%	0%
90%	-4%	-3%	**-44%**	**-317%**	**-682%**	**10%**	**7%**	**-11%**	**-6%**	0%	2%	**6%**
Long Term												
Full Simulation Period[b]	0%	2%	**6%**	**20%**	**12%**	0%	0%	**-7%**	**-7%**	2%	1%	2%
Water Year Types[c]												
Wet (32%)	0%	0%	4%	**10%**	**5%**	-3%	-1%	**-8%**	**-12%**	4%	3%	2%
Above Normal (16%)	-2%	**10%**	**13%**	**22%**	**9%**	**-9%**	2%	**-10%**	**-8%**	2%	-2%	3%
Below Normal (13%)	1%	**-7%**	**7%**	**61%**	**13%**	3%	**6%**	**-6%**	**-6%**	2%	0%	4%
Dry (24%)	1%	1%	**6%**	**89%**	**54%**	**18%**	-1%	**-6%**	-2%	1%	0%	1%
Critical (15%)	-1%	**9%**	**24%**	**51%**	**113%**	**21%**	0%	0%	0%	2%	4%	3%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 5C.3.3.19.4 CVP Net Generation, Monthly Net Generation

Second Basis of Comparison

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	285	162	524	558	567	562	404	561	600	638	480	291
20%	239	132	272	412	486	482	324	519	577	622	463	256
30%	195	103	114	288	296	288	297	481	531	602	438	227
40%	173	87	72	135	208	188	273	461	517	579	422	217
50%	162	81	43	78	114	155	255	444	488	547	405	205
60%	152	75	33	30	74	132	238	413	469	518	393	189
70%	138	58	24	18	53	108	214	384	454	493	369	179
80%	106	50	12	6	20	86	194	343	407	463	356	155
90%	92	32	-10	-8	-7	65	162	292	363	398	321	98
Long Term												
Full Simulation Period[b]	172	100	142	187	215	251	274	431	491	537	401	213
Water Year Types[c]												
Wet (32%)	197	138	336	414	382	455	351	517	533	552	423	289
Above Normal (16%)	169	99	109	211	351	302	263	456	517	611	436	224
Below Normal (13%)	189	87	40	73	176	161	262	444	527	577	438	212
Dry (24%)	158	80	34	35	46	98	219	397	487	530	395	176
Critical (15%)	126	67	28	30	28	90	223	261	346	395	294	98

Alternative 5

	Monthly Net Generation (GWh)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	323	255	511	557	567	559	451	559	528	654	468	527
20%	285	219	219	356	495	444	360	514	496	620	442	495
30%	233	186	113	253	363	270	330	469	475	589	426	365
40%	217	160	72	146	159	168	310	447	450	551	415	343
50%	194	116	48	104	107	148	294	426	437	531	402	243
60%	158	99	39	72	92	131	274	409	424	509	377	199
70%	134	71	28	52	67	105	254	389	404	485	366	177
80%	110	57	18	38	52	84	237	323	368	425	346	146
90%	84	31	-2	25	35	72	210	288	322	396	304	107
Long Term												
Full Simulation Period[b]	197	144	137	208	229	242	315	427	438	524	390	296
Water Year Types[c]												
Wet (32%)	233	191	307	433	388	431	397	527	454	553	419	506
Above Normal (16%)	190	142	136	221	364	264	335	449	458	608	416	333
Below Normal (13%)	230	135	42	79	175	144	305	428	471	569	420	198
Dry (24%)	179	130	32	75	67	119	250	383	461	508	388	173
Critical (15%)	123	76	34	47	56	102	237	257	314	358	273	97

Alternative 5 minus Second Basis of Comparison

	Monthly Net Generation (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	13%	58%	-3%	0%	0%	0%	12%	0%	-12%	3%	-2%	81%
20%	19%	65%	-20%	-14%	2%	-8%	11%	-1%	-14%	0%	-4%	94%
30%	19%	81%	-1%	-12%	23%	-6%	11%	-3%	-10%	-2%	-3%	60%
40%	25%	83%	-1%	8%	-23%	-11%	14%	-3%	-13%	-5%	-2%	58%
50%	20%	44%	10%	33%	-6%	-5%	15%	-4%	-10%	-3%	-1%	19%
60%	4%	32%	19%	138%	24%	0%	15%	-1%	-9%	-2%	-4%	5%
70%	-3%	21%	14%	182%	27%	-3%	19%	1%	-11%	-2%	-1%	-1%
80%	3%	14%	46%	522%	159%	-2%	23%	-6%	-10%	-8%	-3%	-6%
90%	-8%	-4%	-82%	-404%	-603%	10%	29%	-1%	-11%	0%	-5%	9%
Long Term												
Full Simulation Period[b]	14%	44%	-3%	11%	6%	-4%	15%	-1%	-11%	-2%	-3%	39%
Water Year Types[c]												
Wet (32%)	18%	39%	-9%	5%	2%	-5%	13%	2%	-15%	0%	-1%	75%
Above Normal (16%)	12%	44%	25%	4%	4%	-13%	27%	-1%	-11%	-1%	-5%	48%
Below Normal (13%)	22%	55%	5%	8%	0%	-11%	17%	-4%	-11%	-1%	-4%	-7%
Dry (24%)	14%	63%	-6%	113%	47%	22%	14%	-4%	-5%	-4%	-2%	-1%
Critical (15%)	-3%	14%	21%	57%	99%	14%	6%	-1%	-9%	-9%	-7%	-1%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

5C.3.3.20 Stanislaus River Percent Mortality – Fall-run Chinook Salmon

Table 5C.3.3.20 Stanislaus River Percent Mortality - Fall-Run Chinook Salmon

	Percent Mortality	Difference from No Action Alternative	Difference from Second Basis of Comparison
	%	%	%
No Action Alternative			
Long-term Average	7.0	---	-0.4
Wet	1.6	---	0.1
Above Normal	5.3	---	-0.1
Below Normal	4.4	---	0.3
Dry	4.9	---	-0.3
Critical	14.4	---	-1.5
Second Basis of Comparison			
Long-term Average	7.4	0.4	
Wet	1.5	-0.1	---
Above Normal	5.4	0.1	---
Below Normal	4.1	-0.3	---
Dry	5.1	0.3	---
Critical	15.9	1.5	---
Alternative 3			
Long-term Average	6.2	-0.8	-1.2
Wet	1.6	0.0	0.1
Above Normal	4.0	-1.3	-1.4
Below Normal	3.8	-0.6	-0.3
Dry	4.2	-0.7	-0.9
Critical	13.4	-1.0	-2.5
Alternative 5			
Long-term Average	8.5	1.5	1.0
Wet	1.8	0.2	0.3
Above Normal	6.4	1.1	1.0
Below Normal	6.1	1.6	2.0
Dry	7.0	2.2	1.9
Critical	16.9	2.5	1.0

Notes: All results are based on the 82-year simulation period. The water year types are defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

5C.3.3.21 New Melones Large Mouth Bass Nest Survival Percentage

Table 5C.3.3.21.1 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	66	38	80
20%	100	100	100	100	100	100	100	100	100	49	30	64
30%	84	100	100	100	100	100	100	100	100	31	25	59
40%	74	100	100	100	100	100	100	100	100	25	23	57
50%	67	100	100	100	100	100	80	100	98	22	20	55
60%	59	100	100	100	100	100	72	100	63	18	19	50
70%	50	100	100	100	100	100	49	40	42	13	16	43
80%	43	100	100	100	100	100	27	29	27	10	12	38
90%	29	100	100	100	100	100	13	14	15	1	4	34
Long Term												
Full Simulation Period[b]	66	99	100	100	97	95	68	72	69	29	23	54
Water Year Types[c]												
Wet (23%)	67	100	100	100	96	94	83	98	95	47	24	51
Above Normal (24%)	74	100	100	100	100	100	88	100	72	26	20	60
Below Normal (10%)	60	100	100	100	98	95	58	65	61	22	19	58
Dry (16%)	63	99	100	100	97	98	66	51	54	14	16	49
Critical (27%)	65	97	100	100	93	87	29	25	43	28	37	58

Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	61	34	81
20%	100	100	100	100	100	100	100	100	100	43	30	64
30%	100	100	100	100	100	100	100	100	100	31	26	60
40%	100	100	100	100	100	100	100	100	100	27	24	56
50%	100	100	100	100	100	100	100	100	68	24	21	55
60%	100	100	100	100	100	100	98	100	51	21	18	49
70%	100	100	100	100	100	100	81	33	32	17	14	45
80%	91	100	100	100	100	100	52	21	25	12	10	39
90%	80	98	100	100	100	100	40	9	16	5	5	31
Long Term												
Full Simulation Period[b]	95	98	100	100	96	97	82	69	64	29	22	54
Water Year Types[c]												
Wet (23%)	98	100	100	100	96	97	92	98	82	45	24	51
Above Normal (24%)	95	98	100	100	100	100	95	100	69	25	20	59
Below Normal (10%)	93	100	100	100	98	100	79	63	55	25	19	56
Dry (16%)	91	98	100	100	95	98	84	46	54	15	16	51
Critical (27%)	93	96	100	100	94	87	44	19	43	24	30	61

Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-8%**	**-9%**	1%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-14%**	1%	0%
30%	**19%**	0%	0%	0%	0%	0%	0%	0%	0%	-2%	3%	1%
40%	**35%**	0%	0%	0%	0%	0%	0%	0%	0%	**6%**	**5%**	0%
50%	**48%**	0%	0%	0%	0%	0%	**26%**	0%	**-30%**	**5%**	3%	0%
60%	**70%**	0%	0%	0%	0%	0%	**37%**	0%	**-20%**	**15%**	-4%	0%
70%	**99%**	0%	0%	0%	0%	0%	**64%**	**-18%**	**-22%**	**34%**	**-16%**	4%
80%	**113%**	0%	0%	0%	0%	0%	**95%**	**-27%**	**-9%**	**16%**	**-17%**	2%
90%	**180%**	-2%	0%	0%	0%	0%	**219%**	**-36%**	**8%**	**302%**	**48%**	**-9%**
Long Term												
Full Simulation Period[b]	**44%**	-1%	0%	0%	0%	2%	**20%**	-3%	**-8%**	-1%	-5%	1%
Water Year Types[c]												
Wet (23%)	**48%**	0%	0%	0%	0%	4%	**11%**	0%	**-13%**	-4%	-1%	-2%
Above Normal (24%)	**29%**	-1%	0%	0%	0%	0%	**9%**	0%	-5%	-4%	-2%	-2%
Below Normal (10%)	**55%**	0%	0%	0%	0%	**5%**	**36%**	-4%	**-9%**	**15%**	-4%	-2%
Dry (16%)	**44%**	-1%	0%	0%	-2%	0%	**28%**	**-9%**	0%	**12%**	2%	3%
Critical (27%)	**44%**	-2%	0%	0%	0%	0%	**53%**	**-23%**	0%	**-12%**	**-18%**	**7%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.21.2 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	61	34	81
20%	100	100	100	100	100	100	100	100	100	43	30	64
30%	100	100	100	100	100	100	100	100	100	31	26	60
40%	100	100	100	100	100	100	100	100	100	27	24	56
50%	100	100	100	100	100	100	100	100	68	24	21	55
60%	100	100	100	100	100	100	98	100	51	21	18	49
70%	100	100	100	100	100	100	81	33	32	17	14	45
80%	91	100	100	100	100	100	52	21	25	12	10	39
90%	80	98	100	100	100	100	40	9	16	5	5	31
Long Term												
Full Simulation Period[b]	95	98	100	100	96	97	82	69	64	29	22	54
Water Year Types[c]												
Wet (23%)	98	100	100	100	96	97	92	98	82	45	24	51
Above Normal (24%)	95	98	100	100	100	100	95	100	69	25	20	59
Below Normal (10%)	93	100	100	100	98	100	79	63	55	25	19	56
Dry (16%)	91	98	100	100	95	98	84	46	54	15	16	51
Critical (27%)	93	96	100	100	94	87	44	19	43	24	30	61

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	66	38	80
20%	100	100	100	100	100	100	100	100	100	49	30	64
30%	84	100	100	100	100	100	100	100	100	31	25	59
40%	74	100	100	100	100	100	100	100	100	25	23	57
50%	67	100	100	100	100	100	80	100	98	22	20	55
60%	59	100	100	100	100	100	72	100	63	18	19	50
70%	50	100	100	100	100	100	49	40	42	13	16	43
80%	43	100	100	100	100	100	27	29	27	10	12	38
90%	29	100	100	100	100	100	13	14	15	1	4	34
Long Term												
Full Simulation Period[b]	66	99	100	100	97	95	68	72	69	29	23	54
Water Year Types[c]												
Wet (23%)	67	100	100	100	96	94	83	98	95	47	24	51
Above Normal (24%)	74	100	100	100	100	100	88	100	72	26	20	60
Below Normal (10%)	60	100	100	100	98	95	58	65	61	22	19	58
Dry (16%)	63	99	100	100	97	98	66	51	54	14	16	49
Critical (27%)	65	97	100	100	93	87	29	25	43	28	37	58

No Action Alternative minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	**10%**	-1%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**16%**	-1%	0%
30%	**-16%**	0%	0%	0%	0%	0%	0%	0%	0%	2%	-3%	-1%
40%	**-26%**	0%	0%	0%	0%	0%	0%	0%	0%	**-5%**	**-5%**	0%
50%	**-33%**	0%	0%	0%	0%	0%	**-20%**	0%	**44%**	**-5%**	-3%	0%
60%	**-41%**	0%	0%	0%	0%	0%	**-27%**	0%	**25%**	**-13%**	4%	0%
70%	**-50%**	0%	0%	0%	0%	0%	**-39%**	**22%**	**29%**	**-25%**	**19%**	-4%
80%	**-53%**	0%	0%	0%	0%	0%	**-49%**	**37%**	**10%**	**-14%**	**21%**	-1%
90%	**-64%**	2%	0%	0%	0%	0%	**-69%**	**56%**	**-7%**	**-75%**	**-32%**	**10%**
Long Term												
Full Simulation Period[b]	**-31%**	1%	0%	0%	0%	-2%	**-17%**	3%	**8%**	1%	5%	-1%
Water Year Types[c]												
Wet (23%)	**-32%**	0%	0%	0%	0%	-3%	**-10%**	0%	**16%**	4%	1%	2%
Above Normal (24%)	**-22%**	1%	0%	0%	0%	0%	**-8%**	0%	**5%**	4%	2%	2%
Below Normal (10%)	**-35%**	0%	0%	0%	0%	**-5%**	**-26%**	4%	**10%**	**-13%**	4%	2%
Dry (16%)	**-31%**	1%	0%	0%	2%	0%	**-22%**	**10%**	0%	**-11%**	-2%	-3%
Critical (27%)	**-31%**	2%	0%	0%	0%	0%	**-35%**	**30%**	0%	**13%**	**21%**	**-6%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.21.3 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	61	34	81
20%	100	100	100	100	100	100	100	100	100	43	30	64
30%	100	100	100	100	100	100	100	100	100	31	26	60
40%	100	100	100	100	100	100	100	100	100	27	24	56
50%	100	100	100	100	100	100	100	100	68	24	21	55
60%	100	100	100	100	100	100	98	100	51	21	18	49
70%	100	100	100	100	100	100	81	33	32	17	14	45
80%	91	100	100	100	100	100	52	21	25	12	10	39
90%	80	98	100	100	100	100	40	9	16	5	5	31
Long Term												
Full Simulation Period[b]	95	98	100	100	96	97	82	69	64	29	22	54
Water Year Types[c]												
Wet (23%)	98	100	100	100	96	97	92	98	82	45	24	51
Above Normal (24%)	95	98	100	100	100	100	95	100	69	25	20	59
Below Normal (10%)	93	100	100	100	98	100	79	63	55	25	19	56
Dry (16%)	91	98	100	100	95	98	84	46	54	15	16	51
Critical (27%)	93	96	100	100	94	87	44	19	43	24	30	61

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	43	78
20%	100	100	100	100	100	100	100	100	100	57	37	69
30%	100	100	100	100	100	100	100	100	100	43	29	61
40%	100	100	100	100	100	100	100	100	100	31	27	56
50%	100	100	100	100	100	100	97	100	100	24	23	55
60%	100	100	100	100	100	100	75	92	55	21	20	48
70%	100	100	100	100	100	100	57	44	35	18	18	42
80%	94	100	100	100	100	100	43	21	28	11	11	31
90%	84	100	100	100	100	100	23	0	14	0	0	23
Long Term												
Full Simulation Period[b]	95	99	99	100	99	96	73	70	67	35	24	51
Water Year Types[c]												
Wet (23%)	99	100	100	100	96	98	92	91	77	66	30	53
Above Normal (24%)	98	99	100	100	100	100	94	100	90	34	22	58
Below Normal (10%)	96	100	91	100	100	100	62	73	64	23	18	56
Dry (16%)	89	100	100	100	100	98	68	46	59	16	20	42
Critical (27%)	94	97	100	100	100	83	30	30	40	15	25	50

Alternative 3 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**64%**	**27%**	-3%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**34%**	**22%**	**8%**
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**39%**	**14%**	3%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**18%**	**13%**	0%
50%	0%	0%	0%	0%	0%	0%	-3%	0%	**47%**	1%	**9%**	0%
60%	0%	0%	0%	0%	0%	0%	**-23%**	**-8%**	**8%**	-2%	**11%**	-3%
70%	0%	0%	0%	0%	0%	0%	**-29%**	**34%**	**8%**	4%	**32%**	**-6%**
80%	3%	0%	0%	0%	0%	0%	**-18%**	-4%	**11%**	-2%	**9%**	**-19%**
90%	5%	2%	0%	0%	0%	0%	**-43%**	**-96%**	**-14%**	**-100%**	**-99%**	**-24%**
Long Term												
Full Simulation Period[b]	0%	1%	-1%	0%	3%	0%	**-10%**	1%	**6%**	**22%**	**11%**	**-6%**
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	0%	0%	0%	**-7%**	**-6%**	**45%**	**25%**	5%
Above Normal (24%)	3%	1%	0%	0%	0%	0%	-1%	0%	**31%**	**38%**	**10%**	-1%
Below Normal (10%)	3%	0%	**-9%**	0%	2%	0%	**-21%**	**15%**	**15%**	**-10%**	-2%	0%
Dry (16%)	-3%	2%	0%	0%	**5%**	0%	**-20%**	1%	**8%**	2%	**21%**	**-17%**
Critical (27%)	1%	1%	0%	0%	**7%**	-4%	**-31%**	**56%**	**-5%**	**-37%**	**-16%**	**-18%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.21.4 New Melones Large Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	61	34	81
20%	100	100	100	100	100	100	100	100	100	43	30	64
30%	100	100	100	100	100	100	100	100	100	31	26	60
40%	100	100	100	100	100	100	100	100	100	27	24	56
50%	100	100	100	100	100	100	100	100	68	24	21	55
60%	100	100	100	100	100	100	98	100	51	21	18	49
70%	100	100	100	100	100	100	81	33	32	17	14	45
80%	91	100	100	100	100	100	52	21	25	12	10	39
90%	80	98	100	100	100	100	40	9	16	5	5	31
Long Term												
Full Simulation Period[b]	95	98	100	100	96	97	82	69	64	29	22	54
Water Year Types[c]												
Wet (23%)	98	100	100	100	96	97	92	98	82	45	24	51
Above Normal (24%)	95	98	100	100	100	100	95	100	69	25	20	59
Below Normal (10%)	93	100	100	100	98	100	79	63	55	25	19	56
Dry (16%)	91	98	100	100	95	98	84	46	54	15	16	51
Critical (27%)	93	96	100	100	94	87	44	19	43	24	30	61

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	75	36	98
20%	100	100	100	100	100	100	100	100	100	42	24	62
30%	88	100	100	100	100	100	100	100	100	30	22	57
40%	75	100	100	100	100	100	100	100	100	23	20	55
50%	69	100	100	100	100	100	72	100	100	20	19	50
60%	57	100	100	100	100	100	43	60	79	16	16	44
70%	51	100	100	100	100	100	24	29	43	12	11	39
80%	46	100	100	100	100	100	10	1	25	5	5	35
90%	35	100	100	100	100	95	0	0	7	0	0	13
Long Term												
Full Simulation Period[b]	67	100	100	100	98	95	60	64	70	28	21	50
Water Year Types[c]												
Wet (23%)	71	100	100	100	96	95	87	93	97	41	19	47
Above Normal (24%)	73	99	100	100	100	100	79	94	61	21	17	53
Below Normal (10%)	58	100	100	100	98	95	50	58	59	18	14	44
Dry (16%)	58	99	100	100	100	98	45	37	52	10	13	45
Critical (27%)	73	100	100	100	99	85	14	19	60	44	50	67

Alternative 5 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**22%**	**5%**	**21%**
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	**-20%**	-3%
30%	**-12%**	0%	0%	0%	0%	0%	0%	0%	0%	-1%	**-15%**	-4%
40%	**-25%**	0%	0%	0%	0%	0%	0%	0%	0%	**-13%**	**-17%**	-2%
50%	**-31%**	0%	0%	0%	0%	0%	**-28%**	0%	**47%**	**-17%**	**-12%**	**-9%**
60%	**-43%**	0%	0%	0%	0%	0%	**-56%**	**-40%**	**56%**	**-24%**	**-8%**	**-11%**
70%	**-49%**	0%	0%	0%	0%	0%	**-70%**	**-11%**	**33%**	**-30%**	**-18%**	**-13%**
80%	**-50%**	0%	0%	0%	0%	0%	**-81%**	**-94%**	0%	**-61%**	**-46%**	**-9%**
90%	**-57%**	2%	0%	0%	0%	-5%	**-100%**	**-100%**	**-56%**	**-98%**	**-99%**	**-58%**
Long Term												
Full Simulation Period[b]	**-29%**	1%	0%	0%	2%	-2%	**-27%**	**-8%**	**9%**	-5%	-2%	**-8%**
Water Year Types[c]												
Wet (23%)	**-28%**	0%	0%	0%	0%	-3%	**-5%**	**-5%**	**19%**	**-9%**	**-19%**	**-8%**
Above Normal (24%)	**-23%**	1%	0%	0%	0%	0%	**-17%**	**-6%**	**-12%**	**-16%**	**-14%**	**-10%**
Below Normal (10%)	**-38%**	0%	0%	0%	0%	**-5%**	**-37%**	**-8%**	**6%**	**-29%**	**-26%**	**-22%**
Dry (16%)	**-36%**	1%	0%	0%	**5%**	0%	**-47%**	**-19%**	-3%	**-35%**	**-23%**	**-11%**
Critical (27%)	**-21%**	5%	0%	0%	**5%**	-1%	**-69%**	-1%	**40%**	**82%**	**66%**	**9%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.22 New Melones Small Mouth Bass Nest Survival Percentage

Table 5C.3.3.22.1 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	56	32	67
20%	84	100	100	100	100	100	100	100	100	42	26	54
30%	71	100	100	100	100	100	100	100	100	27	22	50
40%	62	100	100	100	100	100	100	100	100	22	20	48
50%	57	100	100	100	100	100	67	100	86	20	18	46
60%	50	100	100	100	100	100	60	91	53	16	17	42
70%	43	100	100	100	100	100	42	34	35	12	15	37
80%	37	100	100	100	100	100	23	25	24	9	11	33
90%	25	100	100	100	100	85	12	13	14	2	4	29
Long Term												
Full Simulation Period[b]	58	98	100	100	96	94	65	70	66	26	21	47
Water Year Types[c]												
Wet (23%)	59	100	100	100	96	93	81	97	93	42	21	43
Above Normal (24%)	64	98	100	100	100	100	86	99	68	22	18	52
Below Normal (10%)	54	100	100	100	97	94	55	63	59	19	17	50
Dry (16%)	55	97	100	100	97	98	59	48	50	12	15	43
Critical (27%)	58	95	100	99	92	82	26	23	40	25	36	53

Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	51	30	68
20%	100	100	100	100	100	100	100	100	100	36	26	54
30%	100	100	100	100	100	100	100	100	100	26	22	50
40%	100	100	100	100	100	100	100	100	100	23	21	48
50%	100	100	100	100	100	100	100	100	57	21	19	46
60%	92	100	100	100	100	100	82	96	43	18	16	42
70%	87	100	100	100	100	100	68	28	28	15	12	38
80%	76	91	100	100	100	100	44	19	22	11	9	33
90%	67	82	100	100	100	100	35	8	14	5	6	26
Long Term												
Full Simulation Period[b]	89	95	100	100	96	96	77	68	61	26	19	47
Water Year Types[c]												
Wet (23%)	93	100	100	100	96	97	88	98	79	41	21	43
Above Normal (24%)	91	95	100	100	100	100	94	100	65	22	18	51
Below Normal (10%)	84	98	100	100	97	100	73	61	53	22	17	49
Dry (16%)	84	92	100	100	95	97	78	44	50	14	15	44
Critical (27%)	92	90	100	99	92	82	39	18	40	22	29	56

Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**-8%**	**-9%**	1%
20%	**19%**	0%	0%	0%	0%	0%	0%	0%	0%	**-13%**	1%	0%
30%	**42%**	0%	0%	0%	0%	0%	0%	0%	0%	-2%	3%	1%
40%	**61%**	0%	0%	0%	0%	0%	0%	0%	0%	**5%**	**5%**	0%
50%	**76%**	0%	0%	0%	0%	0%	**50%**	0%	**-34%**	**5%**	3%	0%
60%	**84%**	0%	0%	0%	0%	0%	**37%**	**6%**	**-20%**	**14%**	-4%	0%
70%	**104%**	0%	0%	0%	0%	0%	**63%**	**-18%**	**-22%**	**30%**	**-15%**	4%
80%	**109%**	**-9%**	0%	0%	0%	0%	**90%**	**-26%**	**-9%**	**14%**	**-15%**	1%
90%	**171%**	**-18%**	0%	0%	0%	**18%**	**196%**	**-33%**	**7%**	**136%**	**34%**	**-9%**
Long Term												
Full Simulation Period[b]	**54%**	-3%	0%	0%	0%	2%	**20%**	-3%	**-8%**	-1%	**-5%**	1%
Water Year Types[c]												
Wet (23%)	**59%**	0%	0%	0%	0%	4%	**9%**	0%	**-15%**	-3%	0%	-1%
Above Normal (24%)	**41%**	-2%	0%	0%	0%	0%	**10%**	0%	-4%	-4%	-2%	-2%
Below Normal (10%)	**57%**	-2%	0%	0%	0%	**6%**	**34%**	-3%	**-10%**	**14%**	-3%	-2%
Dry (16%)	**52%**	**-5%**	0%	0%	-2%	-1%	**32%**	**-8%**	0%	**11%**	2%	3%
Critical (27%)	**58%**	**-5%**	0%	0%	0%	0%	**51%**	**-22%**	1%	**-11%**	**-19%**	**6%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.22.2 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	51	30	68
20%	100	100	100	100	100	100	100	100	100	36	26	54
30%	100	100	100	100	100	100	100	100	100	26	22	50
40%	100	100	100	100	100	100	100	100	100	23	21	48
50%	100	100	100	100	100	100	100	100	57	21	19	46
60%	92	100	100	100	100	100	82	96	43	18	16	42
70%	87	100	100	100	100	100	68	28	28	15	12	38
80%	76	91	100	100	100	100	44	19	22	11	9	33
90%	67	82	100	100	100	100	35	8	14	5	6	26
Long Term												
Full Simulation Period[b]	89	95	100	100	96	96	77	68	61	26	19	47
Water Year Types[c]												
Wet (23%)	93	100	100	100	96	97	88	98	79	41	21	43
Above Normal (24%)	91	95	100	100	100	100	94	100	65	22	18	51
Below Normal (10%)	84	98	100	100	97	100	73	61	53	22	17	49
Dry (16%)	84	92	100	100	95	97	78	44	50	14	15	44
Critical (27%)	92	90	100	99	92	82	39	18	40	22	29	56

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	56	32	67
20%	84	100	100	100	100	100	100	100	100	42	26	54
30%	71	100	100	100	100	100	100	100	100	27	22	50
40%	62	100	100	100	100	100	100	100	100	22	20	48
50%	57	100	100	100	100	100	67	100	86	20	18	46
60%	50	100	100	100	100	100	60	91	53	16	17	42
70%	43	100	100	100	100	100	42	34	35	12	15	37
80%	37	100	100	100	100	100	23	25	24	9	11	33
90%	25	100	100	100	100	85	12	13	14	2	4	29
Long Term												
Full Simulation Period[b]	58	98	100	100	96	94	65	70	66	26	21	47
Water Year Types[c]												
Wet (23%)	59	100	100	100	96	93	81	97	93	42	21	43
Above Normal (24%)	64	98	100	100	100	100	86	99	68	22	18	52
Below Normal (10%)	54	100	100	100	97	94	55	63	59	19	17	50
Dry (16%)	55	97	100	100	97	98	59	48	50	12	15	43
Critical (27%)	58	95	100	99	92	82	26	23	40	25	36	53

No Action Alternative minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	**10%**	-1%
20%	**-16%**	0%	0%	0%	0%	0%	0%	0%	0%	**16%**	-1%	0%
30%	**-29%**	0%	0%	0%	0%	0%	0%	0%	0%	2%	-3%	-1%
40%	**-38%**	0%	0%	0%	0%	0%	0%	0%	0%	-5%	-5%	0%
50%	**-43%**	0%	0%	0%	0%	0%	**-33%**	0%	**51%**	-5%	-3%	0%
60%	**-46%**	0%	0%	0%	0%	0%	**-27%**	**-5%**	**25%**	**-12%**	4%	0%
70%	**-51%**	0%	0%	0%	0%	0%	**-38%**	**21%**	**27%**	**-23%**	**17%**	-3%
80%	**-52%**	**10%**	0%	0%	0%	0%	**-47%**	**34%**	**10%**	**-12%**	**18%**	-1%
90%	**-63%**	**22%**	0%	0%	0%	**-15%**	**-66%**	**48%**	**-7%**	**-58%**	**-25%**	**10%**
Long Term												
Full Simulation Period[b]	**-35%**	3%	0%	0%	0%	-2%	**-17%**	3%	**9%**	1%	**6%**	-1%
Water Year Types[c]												
Wet (23%)	**-37%**	0%	0%	0%	0%	-4%	**-9%**	0%	**17%**	3%	0%	1%
Above Normal (24%)	**-29%**	2%	0%	0%	0%	0%	**-9%**	0%	4%	4%	2%	2%
Below Normal (10%)	**-37%**	2%	0%	0%	0%	**-6%**	**-25%**	3%	**11%**	**-12%**	3%	2%
Dry (16%)	**-34%**	**5%**	0%	0%	2%	1%	**-24%**	**8%**	0%	**-10%**	-2%	-3%
Critical (27%)	**-37%**	**5%**	0%	0%	0%	0%	**-34%**	**28%**	-1%	**13%**	**24%**	**-6%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.22.3 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	51	30	68
20%	100	100	100	100	100	100	100	100	100	36	26	54
30%	100	100	100	100	100	100	100	100	100	26	22	50
40%	100	100	100	100	100	100	100	100	100	23	21	48
50%	100	100	100	100	100	100	100	100	57	21	19	46
60%	92	100	100	100	100	100	82	96	43	18	16	42
70%	87	100	100	100	100	100	68	28	28	15	12	38
80%	76	91	100	100	100	100	44	19	22	11	9	33
90%	67	82	100	100	100	100	35	8	14	5	6	26
Long Term												
Full Simulation Period[b]	89	95	100	100	96	96	77	68	61	26	19	47
Water Year Types[c]												
Wet (23%)	93	100	100	100	96	97	88	98	79	41	21	43
Above Normal (24%)	91	95	100	100	100	100	94	100	65	22	18	51
Below Normal (10%)	84	98	100	100	97	100	73	61	53	22	17	49
Dry (16%)	84	92	100	100	95	97	78	44	50	14	15	44
Critical (27%)	92	90	100	99	92	82	39	18	40	22	29	56

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	37	66
20%	100	100	100	100	100	100	100	100	100	48	31	58
30%	100	100	100	100	100	100	100	100	100	36	25	52
40%	100	100	100	100	100	100	100	100	100	27	23	48
50%	99	100	100	100	100	100	81	100	100	21	20	46
60%	97	100	100	100	100	100	63	81	46	18	18	41
70%	84	100	100	100	100	100	48	38	30	16	16	36
80%	79	100	100	100	100	100	36	18	24	11	10	27
90%	70	88	100	100	100	100	20	0	13	0	0	20
Long Term												
Full Simulation Period[b]	90	98	99	100	99	96	70	69	65	32	21	44
Water Year Types[c]												
Wet (23%)	94	100	100	100	96	98	89	90	77	62	26	45
Above Normal (24%)	93	98	100	100	100	100	93	100	88	30	19	50
Below Normal (10%)	90	100	91	100	100	100	57	69	61	20	16	49
Dry (16%)	81	96	100	100	100	97	62	44	54	14	18	37
Critical (27%)	90	92	100	100	99	79	27	27	37	13	23	44

Alternative 3 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**94%**	**26%**	-3%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**33%**	**21%**	**7%**
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**37%**	**13%**	2%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**17%**	**12%**	0%
50%	-1%	0%	0%	0%	0%	0%	**-19%**	0%	**74%**	1%	**9%**	0%
60%	**6%**	0%	0%	0%	0%	0%	**-23%**	**-16%**	**8%**	-2%	**11%**	-3%
70%	-4%	0%	0%	0%	0%	0%	**-29%**	**32%**	**8%**	3%	**29%**	**-6%**
80%	3%	**10%**	0%	0%	0%	0%	**-18%**	-4%	**11%**	-2%	**8%**	**-18%**
90%	5%	**8%**	0%	0%	0%	0%	**-42%**	**-95%**	**-12%**	**-91%**	**-97%**	**-23%**
Long Term												
Full Simulation Period[b]	1%	2%	-1%	0%	3%	0%	**-10%**	1%	**7%**	**25%**	**8%**	**-6%**
Water Year Types[c]												
Wet (23%)	1%	0%	0%	0%	0%	0%	1%	**-7%**	-3%	**53%**	**24%**	4%
Above Normal (24%)	3%	3%	0%	0%	0%	0%	-2%	0%	**35%**	**37%**	**8%**	-1%
Below Normal (10%)	**7%**	2%	**-9%**	0%	3%	0%	**-23%**	**15%**	**16%**	**-10%**	-3%	0%
Dry (16%)	-4%	4%	0%	0%	**5%**	0%	**-20%**	0%	**7%**	1%	**19%**	**-16%**
Critical (27%)	-2%	3%	0%	1%	**8%**	-4%	**-30%**	**51%**	**-8%**	**-40%**	**-19%**	**-22%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.22.4 New Melones Small Mouth Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	51	30	68
20%	100	100	100	100	100	100	100	100	100	36	26	54
30%	100	100	100	100	100	100	100	100	100	26	22	50
40%	100	100	100	100	100	100	100	100	100	23	21	48
50%	100	100	100	100	100	100	100	100	57	21	19	46
60%	92	100	100	100	100	100	82	96	43	18	16	42
70%	87	100	100	100	100	100	68	28	28	15	12	38
80%	76	91	100	100	100	100	44	19	22	11	9	33
90%	67	82	100	100	100	100	35	8	14	5	6	26
Long Term												
Full Simulation Period[b]	89	95	100	100	96	96	77	68	61	26	19	47
Water Year Types[c]												
Wet (23%)	93	100	100	100	96	97	88	98	79	41	21	43
Above Normal (24%)	91	95	100	100	100	100	94	100	65	22	18	51
Below Normal (10%)	84	98	100	100	97	100	73	61	53	22	17	49
Dry (16%)	84	92	100	100	95	97	78	44	50	14	15	44
Critical (27%)	92	90	100	99	92	82	39	18	40	22	29	56

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	63	31	88
20%	87	100	100	100	100	100	100	100	100	36	21	53
30%	74	100	100	100	100	100	100	100	100	26	19	48
40%	63	100	100	100	100	100	100	100	100	20	17	47
50%	58	100	100	100	100	100	60	100	100	18	17	42
60%	48	100	100	100	100	100	37	51	66	14	15	37
70%	43	100	100	100	100	100	21	25	37	11	10	34
80%	39	100	100	100	100	100	9	2	22	5	6	30
90%	30	100	100	100	100	80	0	0	7	0	1	12
Long Term												
Full Simulation Period[b]	59	99	100	100	98	94	57	62	67	25	20	44
Water Year Types[c]												
Wet (23%)	61	100	100	100	96	95	84	90	94	36	17	40
Above Normal (24%)	65	98	100	100	100	100	76	93	58	18	15	46
Below Normal (10%)	51	100	100	100	97	94	47	56	57	16	12	39
Dry (16%)	52	97	100	100	100	97	43	36	49	9	12	39
Critical (27%)	68	98	100	100	98	81	13	19	58	43	50	63

Alternative 5 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**22%**	**5%**	**29%**
20%	**-13%**	0%	0%	0%	0%	0%	0%	0%	0%	-2%	**-20%**	-3%
30%	**-26%**	0%	0%	0%	0%	0%	0%	0%	0%	-1%	**-15%**	-4%
40%	**-37%**	0%	0%	0%	0%	0%	0%	0%	0%	**-12%**	**-16%**	-2%
50%	**-42%**	0%	0%	0%	0%	0%	**-40%**	0%	**74%**	**-16%**	**-11%**	**-8%**
60%	**-47%**	0%	0%	0%	0%	0%	**-56%**	**-48%**	**54%**	**-22%**	**-7%**	**-11%**
70%	**-51%**	0%	0%	0%	0%	0%	**-69%**	**-11%**	**32%**	**-28%**	**-17%**	**-12%**
80%	**-49%**	**10%**	0%	0%	0%	0%	**-79%**	**-88%**	0%	**-54%**	**-40%**	**-9%**
90%	**-56%**	**22%**	0%	0%	0%	**-20%**	**-100%**	**-100%**	**-51%**	**-96%**	**-78%**	**-55%**
Long Term												
Full Simulation Period[b]	**-34%**	3%	0%	0%	2%	-2%	**-26%**	**-9%**	**11%**	-3%	0%	**-7%**
Water Year Types[c]												
Wet (23%)	**-34%**	0%	0%	0%	0%	-3%	-5%	**-7%**	**19%**	**-10%**	**-19%**	**-7%**
Above Normal (24%)	**-28%**	2%	0%	0%	0%	0%	**-19%**	**-7%**	**-11%**	**-16%**	**-13%**	**-9%**
Below Normal (10%)	**-39%**	2%	0%	0%	0%	**-6%**	**-37%**	**-7%**	**8%**	**-28%**	**-25%**	**-21%**
Dry (16%)	**-39%**	**5%**	0%	0%	**5%**	0%	**-45%**	**-19%**	-3%	**-34%**	**-22%**	**-11%**
Critical (27%)	**-26%**	**10%**	0%	1%	**6%**	-1%	**-67%**	**5%**	**45%**	**92%**	**72%**	**12%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

5C.3.3.23 New Melones Spotted Bass Nest Survival Percentage

Table 5C.3.3.23.1 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	91	100
30%	100	100	100	100	100	100	100	100	100	93	85	100
40%	100	100	100	100	100	100	100	100	100	85	81	100
50%	100	100	100	100	100	100	100	100	100	81	78	100
60%	100	100	100	100	100	100	100	100	100	75	76	100
70%	100	100	100	100	100	100	100	100	100	68	73	100
80%	100	100	100	100	100	100	87	91	88	64	66	100
90%	90	100	100	100	100	100	68	69	71	51	55	97
Long Term												
Full Simulation Period[b]	94	100	100	100	99	99	90	91	91	77	76	97
Water Year Types[c]												
Wet (23%)	88	100	100	100	98	96	88	100	96	84	79	96
Above Normal (24%)	99	100	100	100	100	100	98	100	99	77	78	100
Below Normal (10%)	91	100	100	100	100	100	90	90	94	80	77	99
Dry (16%)	97	100	100	100	100	100	97	92	89	69	72	99
Critical (27%)	99	100	100	100	100	100	73	62	72	75	75	94

Alternative 1

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	98	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	86	100
40%	100	100	100	100	100	100	100	100	100	87	83	100
50%	100	100	100	100	100	100	100	100	100	83	79	100
60%	100	100	100	100	100	100	100	100	100	79	75	100
70%	100	100	100	100	100	100	100	96	95	74	69	100
80%	100	100	100	100	100	100	100	80	85	66	63	100
90%	100	100	100	100	100	100	100	62	72	57	57	93
Long Term												
Full Simulation Period[b]	100	100	100	100	98	100	98	89	92	80	77	98
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	99	93	83	96
Above Normal (24%)	100	100	100	100	100	100	100	100	96	78	77	100
Below Normal (10%)	100	100	100	100	100	100	100	90	92	84	76	99
Dry (16%)	100	100	100	100	97	100	100	87	90	71	73	99
Critical (27%)	98	100	100	100	100	100	87	56	78	62	71	96

Alternative 1 minus No Action Alternative

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	1%	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	-1%	0%
70%	0%	0%	0%	0%	0%	0%	0%	-4%	-5%	**9%**	**-5%**	0%
80%	0%	0%	0%	0%	0%	0%	**15%**	**-12%**	-4%	4%	-4%	0%
90%	**11%**	0%	0%	0%	0%	0%	**48%**	**-10%**	2%	**10%**	4%	-5%
Long Term												
Full Simulation Period[b]	**6%**	0%	0%	0%	-1%	1%	**9%**	-2%	1%	3%	1%	0%
Water Year Types[c]												
Wet (23%)	**13%**	0%	0%	0%	-1%	4%	**13%**	0%	3%	**11%**	**6%**	0%
Above Normal (24%)	1%	0%	0%	0%	0%	0%	2%	0%	-3%	1%	-1%	0%
Below Normal (10%)	**10%**	0%	0%	0%	0%	0%	**11%**	-1%	-2%	**5%**	-1%	0%
Dry (16%)	3%	0%	0%	0%	-3%	0%	3%	**-5%**	1%	3%	1%	0%
Critical (27%)	-1%	0%	0%	0%	0%	0%	**20%**	**-10%**	**9%**	**-17%**	-4%	2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.23.2 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	98	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	86	100
40%	100	100	100	100	100	100	100	100	100	87	83	100
50%	100	100	100	100	100	100	100	100	100	83	79	100
60%	100	100	100	100	100	100	100	100	100	79	75	100
70%	100	100	100	100	100	100	100	96	95	74	69	100
80%	100	100	100	100	100	100	100	80	85	66	63	100
90%	100	100	100	100	100	100	100	62	72	57	57	93
Long Term												
Full Simulation Period[b]	100	100	100	100	98	100	98	89	92	80	77	98
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	99	93	83	96
Above Normal (24%)	100	100	100	100	100	100	100	100	96	78	77	100
Below Normal (10%)	100	100	100	100	100	100	100	90	92	84	76	99
Dry (16%)	100	100	100	100	97	100	100	87	90	71	73	99
Critical (27%)	98	100	100	100	100	100	87	56	78	62	71	96

No Action Alternative

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	91	100
30%	100	100	100	100	100	100	100	100	100	93	85	100
40%	100	100	100	100	100	100	100	100	100	85	81	100
50%	100	100	100	100	100	100	100	100	100	81	78	100
60%	100	100	100	100	100	100	100	100	100	75	76	100
70%	100	100	100	100	100	100	100	100	100	68	73	100
80%	100	100	100	100	100	100	87	91	88	64	66	100
90%	90	100	100	100	100	100	68	69	71	51	55	97
Long Term												
Full Simulation Period[b]	94	100	100	100	99	99	90	91	91	77	76	97
Water Year Types[c]												
Wet (23%)	88	100	100	100	98	96	88	100	96	84	79	96
Above Normal (24%)	99	100	100	100	100	100	98	100	99	77	78	100
Below Normal (10%)	91	100	100	100	100	100	90	90	94	80	77	99
Dry (16%)	97	100	100	100	100	100	97	92	89	69	72	99
Critical (27%)	99	100	100	100	100	100	73	62	72	75	75	94

No Action Alternative minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	-1%	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-2%	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-1%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-5%	2%	0%
70%	0%	0%	0%	0%	0%	0%	0%	4%	**5%**	**-8%**	**5%**	0%
80%	0%	0%	0%	0%	0%	0%	**-13%**	**14%**	4%	-3%	5%	0%
90%	**-10%**	0%	0%	0%	0%	0%	**-32%**	**11%**	-2%	**-9%**	-4%	5%
Long Term												
Full Simulation Period[b]	**-6%**	0%	0%	0%	1%	-1%	**-8%**	2%	-1%	-3%	-1%	0%
Water Year Types[c]												
Wet (23%)	**-12%**	0%	0%	0%	1%	-4%	**-12%**	0%	-3%	**-10%**	**-5%**	0%
Above Normal (24%)	-1%	0%	0%	0%	0%	0%	-2%	0%	3%	-1%	1%	0%
Below Normal (10%)	**-9%**	0%	0%	0%	0%	0%	**-10%**	1%	2%	**-5%**	1%	0%
Dry (16%)	-3%	0%	0%	0%	3%	0%	-3%	**5%**	-1%	-3%	-1%	0%
Critical (27%)	1%	0%	0%	0%	0%	0%	**-17%**	**11%**	**-8%**	**21%**	5%	-2%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.23.3 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	98	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	86	100
40%	100	100	100	100	100	100	100	100	100	87	83	100
50%	100	100	100	100	100	100	100	100	100	83	79	100
60%	100	100	100	100	100	100	100	100	100	79	75	100
70%	100	100	100	100	100	100	100	96	95	74	69	100
80%	100	100	100	100	100	100	100	80	85	66	63	100
90%	100	100	100	100	100	100	100	62	72	57	57	93
Long Term												
Full Simulation Period[b]	100	100	100	100	98	100	98	89	92	80	77	98
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	99	93	83	96
Above Normal (24%)	100	100	100	100	100	100	100	100	96	78	77	100
Below Normal (10%)	100	100	100	100	100	100	100	90	92	84	76	99
Dry (16%)	100	100	100	100	97	100	100	87	90	71	73	99
Critical (27%)	98	100	100	100	100	100	87	56	78	62	71	96

Alternative 3

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	100	100
20%	100	100	100	100	100	100	100	100	100	100	100	100
30%	100	100	100	100	100	100	100	100	100	100	91	100
40%	100	100	100	100	100	100	100	100	100	94	87	100
50%	100	100	100	100	100	100	100	100	100	83	82	100
60%	100	100	100	100	100	100	100	100	100	79	78	100
70%	100	100	100	100	100	100	100	100	98	75	75	100
80%	100	100	100	100	100	100	100	79	88	66	65	94
90%	100	100	100	100	100	100	82	38	69	48	38	82
Long Term												
Full Simulation Period[b]	100	100	99	100	99	99	94	86	88	78	75	91
Water Year Types[c]												
Wet (23%)	100	100	100	100	98	100	100	92	77	98	87	98
Above Normal (24%)	100	100	100	100	100	100	100	100	99	80	68	92
Below Normal (10%)	100	100	91	100	100	100	90	95	97	69	66	98
Dry (16%)	100	100	100	100	100	100	93	73	93	67	74	79
Critical (27%)	100	100	100	100	100	92	79	71	83	63	70	89

Alternative 3 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**9%**	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	**6%**	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**8%**	**5%**	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	4%	0%
70%	0%	0%	0%	0%	0%	0%	0%	4%	3%	1%	**9%**	0%
80%	0%	0%	0%	0%	0%	0%	0%	-1%	5%	0%	2%	**-6%**
90%	0%	0%	0%	0%	0%	0%	**-18%**	**-39%**	-4%	**-14%**	**-34%**	**-11%**
Long Term												
Full Simulation Period[b]	0%	0%	-1%	0%	1%	-1%	-4%	-3%	-5%	-2%	-2%	**-7%**
Water Year Types[c]												
Wet (23%)	0%	0%	0%	0%	1%	0%	0%	**-8%**	**-22%**	5%	5%	3%
Above Normal (24%)	0%	0%	0%	0%	0%	0%	0%	0%	3%	3%	**-13%**	**-8%**
Below Normal (10%)	0%	0%	**-9%**	0%	0%	0%	**-10%**	**6%**	**5%**	**-18%**	**-12%**	-1%
Dry (16%)	0%	0%	0%	0%	3%	0%	**-7%**	**-15%**	4%	**-6%**	2%	**-21%**
Critical (27%)	2%	0%	0%	0%	0%	**-8%**	**-10%**	**26%**	**5%**	1%	-3%	**-7%**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.23.4 New Melones Spotted Bass Nest Survival Percentage, Monthly Percentage

Second Basis of Comparison

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	98	100
20%	100	100	100	100	100	100	100	100	100	100	92	100
30%	100	100	100	100	100	100	100	100	100	93	86	100
40%	100	100	100	100	100	100	100	100	100	87	83	100
50%	100	100	100	100	100	100	100	100	100	83	79	100
60%	100	100	100	100	100	100	100	100	100	79	75	100
70%	100	100	100	100	100	100	100	96	95	74	69	100
80%	100	100	100	100	100	100	100	80	85	66	63	100
90%	100	100	100	100	100	100	100	62	72	57	57	93
Long Term												
Full Simulation Period[b]	100	100	100	100	98	100	98	89	92	80	77	98
Water Year Types[c]												
Wet (23%)	100	100	100	100	97	100	100	100	99	93	83	96
Above Normal (24%)	100	100	100	100	100	100	100	100	96	78	77	100
Below Normal (10%)	100	100	100	100	100	100	100	90	92	84	76	99
Dry (16%)	100	100	100	100	97	100	100	87	90	71	73	99
Critical (27%)	98	100	100	100	100	100	87	56	78	62	71	96

Alternative 5

	Monthly Percentage (Percent Survival)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	100	100	100	100	100	100	100	100	100	100	99	100
20%	100	100	100	100	100	100	100	100	100	100	83	100
30%	100	100	100	100	100	100	100	100	100	92	80	100
40%	100	100	100	100	100	100	100	100	100	82	77	100
50%	100	100	100	100	100	100	100	100	100	78	76	100
60%	100	100	100	100	100	100	100	100	100	72	73	100
70%	100	100	100	100	100	100	84	91	100	67	65	100
80%	100	100	100	100	100	100	63	52	84	56	57	99
90%	98	100	100	100	100	100	27	9	60	33	50	68
Long Term												
Full Simulation Period[b]	96	100	100	100	99	100	81	80	88	72	71	91
Water Year Types[c]												
Wet (23%)	99	100	100	100	97	99	99	100	100	90	76	94
Above Normal (24%)	99	100	100	100	100	100	90	100	76	66	74	92
Below Normal (10%)	87	100	100	100	100	100	78	74	92	65	65	79
Dry (16%)	93	100	100	100	100	100	78	71	85	56	59	93
Critical (27%)	97	100	100	100	100	100	38	38	80	73	80	92

Alternative 5 minus Second Basis of Comparison

	Monthly Percentage (Percent Change)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%
20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-9%	0%
30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	-7%	0%
40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-6%	-7%	0%
50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-7%	-4%	0%
60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-9%	-3%	0%
70%	0%	0%	0%	0%	0%	0%	-16%	-5%	5%	-10%	-5%	0%
80%	0%	0%	0%	0%	0%	0%	-37%	-35%	0%	-15%	-10%	-1%
90%	-2%	0%	0%	0%	0%	0%	-73%	-85%	-17%	-41%	-13%	-27%
Long Term												
Full Simulation Period[b]	-4%	0%	0%	0%	1%	0%	-18%	-10%	-4%	-9%	-8%	-7%
Water Year Types[c]												
Wet (23%)	-1%	0%	0%	0%	-1%	-1%	-1%	0%	1%	-3%	-8%	-1%
Above Normal (24%)	-1%	0%	0%	0%	0%	0%	-10%	0%	-21%	-16%	-5%	-8%
Below Normal (10%)	-13%	0%	0%	0%	0%	0%	-22%	-18%	-1%	-22%	-15%	-20%
Dry (16%)	-7%	0%	0%	0%	3%	0%	-22%	-18%	-6%	-21%	-18%	-6%
Critical (27%)	-1%	0%	0%	0%	0%	0%	-57%	-31%	2%	18%	13%	-4%

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in text.

Table 5C.3.3.24 Temperature Threshold Exceedances

Species	Lifestage	River	Reach	Water Year Type	Month	Temperature Objective (Degree F)	Temperature Objective Reference[1]	No Action Alternative	Second Basis of Comparison (Alternative 1)	Alternative 3	Alternative 5	Alternative 1 minus No Action Alternative	No Action Alternative minus Second Basis of Comparison	Alternative 3 minus Second Basis of Comparison	Alternative 5 minus Second Basis of Comparison
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	October	56	NMFS BiOp 2009	57%	85%	87%	58%	28%	-28%	2%	-27%
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	November	56	NMFS BiOp 2009	33%	28%	24%	36%	-5%	5%	-4%	8%
Steelhead	Adult Migration	Stanislaus	Orange Blossom Bridge	All	December	56	NMFS BiOp 2009	0%	0%	0%	3%	0%	0%	0%	3%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	January	52	NMFS BiOp 2009	0%	2%	2%	2%	2%	-2%	0%	0%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	February	52	NMFS BiOp 2009	0%	2%	2%	0%	2%	-2%	0%	-2%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	March	52	NMFS BiOp 2009	8%	9%	12%	8%	1%	-1%	3%	-1%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	April	52	NMFS BiOp 2009	33%	31%	30%	37%	-2%	2%	-1%	6%
Steelhead	Smoltification	Stanislaus	Knights Ferry (*Used Below Goodwin Dam)	All	May	52	NMFS BiOp 2009	63%	66%	63%	68%	3%	-3%	-3%	2%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	January	57	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	February	57	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	March	57	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	April	57	NMFS BiOp 2009	2%	8%	3%	0%	6%	-6%	-4%	-8%
Steelhead	Smoltification	Stanislaus	Orange Blossom Bridge	All	May	57	NMFS BiOp 2009	18%	10%	17%	8%	-8%	8%	7%	-3%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	January	55	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	February	55	NMFS BiOp 2009	0%	0%	1%	0%	0%	0%	1%	0%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	March	55	NMFS BiOp 2009	21%	16%	25%	21%	-5%	5%	8%	4%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	April	55	NMFS BiOp 2009	16%	34%	17%	7%	17%	-17%	-16%	-26%
Steelhead	Spawning	Stanislaus	Orange Blossom Bridge	All	May	55	NMFS BiOp 2009	49%	43%	53%	40%	-5%	5%	10%	-3%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	June	65	NMFS BiOp 2009	6%	2%	4%	6%	-3%	3%	2%	3%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	July	65	NMFS BiOp 2009	16%	16%	19%	21%	-1%	1%	4%	6%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	August	65	NMFS BiOp 2009	15%	13%	9%	21%	-2%	2%	-4%	8%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	September	65	NMFS BiOp 2009	11%	10%	7%	18%	0%	0%	-3%	8%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	October	65	NMFS BiOp 2009	7%	8%	4%	11%	1%	-1%	-4%	3%
Steelhead	Rearing	Stanislaus	Orange Blossom Bridge	All	November	65	NMFS BiOp 2009	0%	0%	0%	0%	0%	0%	0%	0%

[1]See Appendix 9N, Section C for the full reference

Table 5C.3.3.25 CVP Annual Power Generation Summary

				No Action Alternative	Second Basis of Comparison (Alternative 1)	Alternative 3	Alternative 5	Alternative 1 vs. No Action Altenative (Percent Difference)	No Action Alternative vs. Second Basis of Comparison (Percent Difference)	Alternative 3 vs. Second Basis of Comparison (Percent Difference)	Alternative 5 vs. Second Basis of Comparison (Percent Difference)
CVP Generation Facilities											
Capacity	At load center	(MW)	Long Term	1,583	1,633	1,642	1,568	3%	-3%	1%	-4%
			Dry and Critical	1,203	1,277	1,291	1,173	**6%**	**-6%**	1%	**-8%**
Energy Generation	Total of all Facilities at load center	(GWh)	Long Term	4,558	4,604	4,582	4,552	1%	-1%	0%	-1%
			Dry and Critical	2,696	2,773	2,798	2,684	3%	-3%	1%	-3%
CVP Pumping Facilities											
Energy Use	Total of all Facilities at load center	(GWh)	Long Term	1,113	1,289	1,238	1,110	**16%**	**-14%**	-4%	**-14%**
			Dry and Critical	699	773	715	699	**11%**	**-10%**	**-8%**	**-10%**
All CVP Facilities											
Net Generation	Total of all Facilities	(GWh)	Long Term	3,445	3,315	3,344	3,442	-4%	4%	1%	4%
			Dry and Critical	1,997	2,000	2,084	1,986	0%	0%	4%	-1%

Notes: 1) Long-term Average is the average quantity for the 82-year simulation period. 2) Dry and Critical Year designations are defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030. 3) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 4) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences are discussed in text. 5) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences are discussed in text.

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