Appendix 5A, Section C

CalSim II and DSM2 Modeling Results

5A.1 Introduction

This appendix provides CalSim II and DSM2 model simulation results for alternatives evaluated for the EIS. Figures and tables are provided to illustrate and summarize the results. The different types of presentations are explained below.

Probability of Exceedance Plots. Probability of exceedance plots provide the frequency of occurrence of values of a parameter that exceed a reference value. For this appendix, the calculation of exceedance probability is done by ranking the data. For example, for the Shasta storage end of September exceedance plot, Shasta storage values at the end of September for each simulated year are sorted in ascending order. The smallest value would have a probability of exceedance of 100 percent since all other values would be greater than that value, and the largest value would have a probability of exceedance of 0 percent. All the values are plotted with probability of exceedance on the x-axis and the value of the parameter on the y-axis. Following the same example, if for one scenario, Shasta end of September of 2,000 TAF corresponds to 80 percent probability, it implies that Shasta end-of September storage is higher than 2,000 TAF in 80 percent of the years under the simulated conditions.

Box and Whisker Diagrams. These plots display the distribution of data based on the following statistical summary: minimum, first quartile (25th percentile that corresponds to 75 percent exceedance probability), mean, median (50 percent exceedance probability), third quartile (75th percentile that corresponds to 25 percent exceedance probability), and maximum.

Monthly Pattern Plots. Monthly pattern plots provide average values for a parameter for each month of the year. The averaging may be done on a long-term basis, which means that it is being averaged over the full number of simulated years, or it may be done for a set of simulated years that have a certain year type. In this appendix, year types are determined using the Sacramento Valley 40-30-30 Index developed by the State Water Resources Control Board (SWRCB). In this appendix, for year type based averages, the year type for each simulated year is assumed to be the classification of the year under projected climate at Year 2030 conditions. This type of plot is used to obtain insight to the monthly variation of phenomena throughout the year.

Long-Term Average Summary and Year Type Based Statistics Summary Tables. These tables provide parameter values for each 10 percent increment of exceedance probability (rows) for each month (columns) as well as long-term and year-type averages (using the Sacramento Valley 40-30-30 Index developed by the SWRCB for projected climate at Year 2030) for each month. For a few

parameters, such as Delta outflow, annual total or average values are added to the tables (for volume and rates, respectively).

Long-Term Average Summary and Dry and Critical Year Type Based Summary Tables. These tables are primarily used to report average annual Central Valley Project (CVP) and State Water Project (SWP) deliveries for each hydrologic region. Values are averaged either for all the years (long-term) or for dry and critical years (using the Sacramento Valley 40-30-30 Index developed by the SWRCB for projected climate at Year 2030). This table is also provided in a format that summarizes SWP and CVP agricultural and municipal and industrial deliveries to the north and south of Delta.

Long-Term Average Summary for SWP Table A and Article 21 Deliveries. This table provides firm and intermittent SWP deliveries on a long-term average basis.

All plots and tables were prepared to facilitate the following comparisons:

- No Action Alternative (with climate change and sea-level rise at Year 2030) compared to the Second Basis of Comparison (with climate change and sea-level rise at Year 2030)
- Alternatives (with climate change and sea-level rise at Year 2030) compared to the No Action Alternative
- Alternatives (with climate change and sea-level rise at Year 2030) compared to the Second Basis of Comparison

5A.2 Appropriate Use of Model Results

The physical models developed and applied in the Environmental Impact Statement (EIS) analysis are generalized and simplified representations of a complex water resources system. A brief description of appropriate use of the model results to compare two scenarios or to compare against threshold values or standards is presented below.

5A.2.1 Absolute vs. Relative Use of the Model Results

The models are not predictive models (in how they are applied in this project), and therefore the results cannot be considered as absolute with and within a quantifiable confidence interval. The model results are only useful in a comparative analysis and can only serve as an indicator of condition (e.g., compliance with a standard) and of trends (e.g., generalized impacts).

5A.2.2 Appropriate Reporting Time-Step

Due to the assumptions involved in the input data sets and model logic, care must be taken to select the most appropriate time-step for the reporting of model results. Sub-monthly (e.g., weekly or daily) reporting of model results is inappropriate for all models and the results should be presented and interpreted on a monthly basis.

5A.2.3 Statistical Comparisons

Absolute differences computed at a point in time between model results from an alternative and a baseline to evaluate impacts is an inappropriate use of model results (e.g., computing differences between the results from a baseline and an alternative for a particular day or month and year within the period of record of simulation). Likewise computing absolute differences between an alternative (or a baseline) and a specific threshold value or standard is an inappropriate use of model results. Statistics computed based on the absolute differences at a point in time (e.g., average of monthly differences) are an inappropriate use of model results. Computing the absolute differences in this way disregards the changes in antecedent conditions between individual scenarios and distorts the evaluation of impacts of a specific action.

Reporting seasonal patterns from long-term averages and water year type averages is appropriate. Statistics computed based on long-term and water year type averages are an appropriate use of model results. Computing differences between long-term or water year type averages of model results from two scenarios are appropriate. Care should be taken to use the appropriate water year type for presenting water year type average statistics of model results (e.g., D1641 Sacramento River 40-30-30 or San Joaquin River 60-20-20 based on climate modifications). For this study, water year types are based on the projected climate and hydrology at Year 2030.

The most appropriate presentation of monthly and annual model results is in the form of probability distributions and comparisons of probability distributions (e.g., cumulative probabilities). If necessary, comparisons of model results against threshold or standard values should be limited to comparisons based on cumulative probability distributions.

5A.3 CalSim II and DSM2 Model Results

CalSim II and DSM2 model results are presented in the figures at the end of this section as follows:

- C.1. Trinity Storage
- C.2. Shasta Storage
- C.3. Oroville Storage
- C.4. Folsom Storage
- C.5. San Luis Storage
- C.6. New Melones Storage
- C.7. Millerton Storage
- C.8. Trinity Lake Elevation
- C.9. Shasta Lake Elevation

- C.10. Oroville Lake Elevation
- C.11. Folsom Lake Elevation
- C.12. San Luis Lake Elevation
- C.13. New Melones Elevation
- C.14. Millerton Elevation
- C.15. Delta Outflow
- C.16. X2 Position
- C.17. Old and Middle River Flow
- C.18. Exports through Jones and Banks Pumping Plants
- C.19. CVP Deliveries
- C.20. SWP Deliveries
- C.21. Trinity River Flow below Lewiston
- C.22. Clear Creek Flow below Whiskeytown
- C.23. Sacramento River Flow downstream of Keswick Reservoir
- C.24. Sacramento River Flow at Bend Bridge
- C.25. Feather River Flow downstream of Thermalito
- C.26. Fremont Weir Spills
- C.27. American River Flow downstream of Nimbus
- C.28. Sacramento River Flow at Freeport
- C.29. Yolo Bypass Flow
- C.30. Sacramento River Flow a Rio Vista
- C.31. Delta Cross Channel Flow
- C.32. Sutter and Steamboat Slough Flows
- C.33. Qwest Flow
- C.34. San Joaquin River Flow at Vernalis
- C.35. Stanislaus River Flow below Goodwin
- C.36. Stanislaus River Flow at Mouth
- C.37. San Joaquin River Flow downstream of Merced River Confluence
- C.38. San Joaquin River Restoration Flow
- C.39. San Joaquin River Flow at Vernalis minus San Joaquin River Flow downstream of Merced River Confluence

- C.40. Steamboat Slough downstream of Sutter Slough Water Surface Elevation
- C.41. Old River at Tracy Boulevard Water Surface Elevation
- C.42. Mokelumne River at Terminous Water Surface Elevation
- C.43. Sacramento River at Freeport Water Surface Elevation
- C.44. Sacramento River downstream of Delta Cross Channel Water Surface Elevation
- C.45. Sacramento River at Rio Vista Water Surface Elevation

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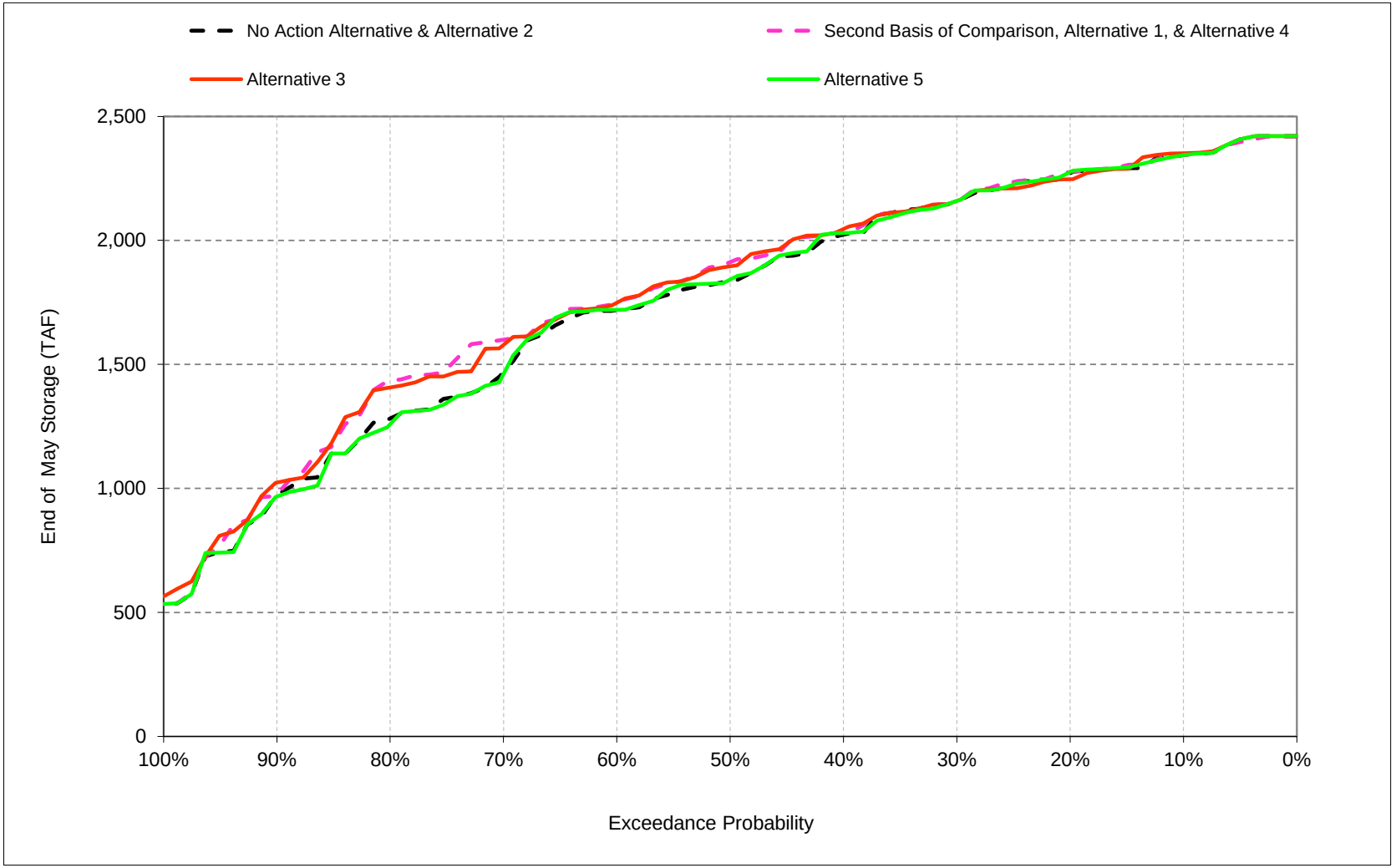
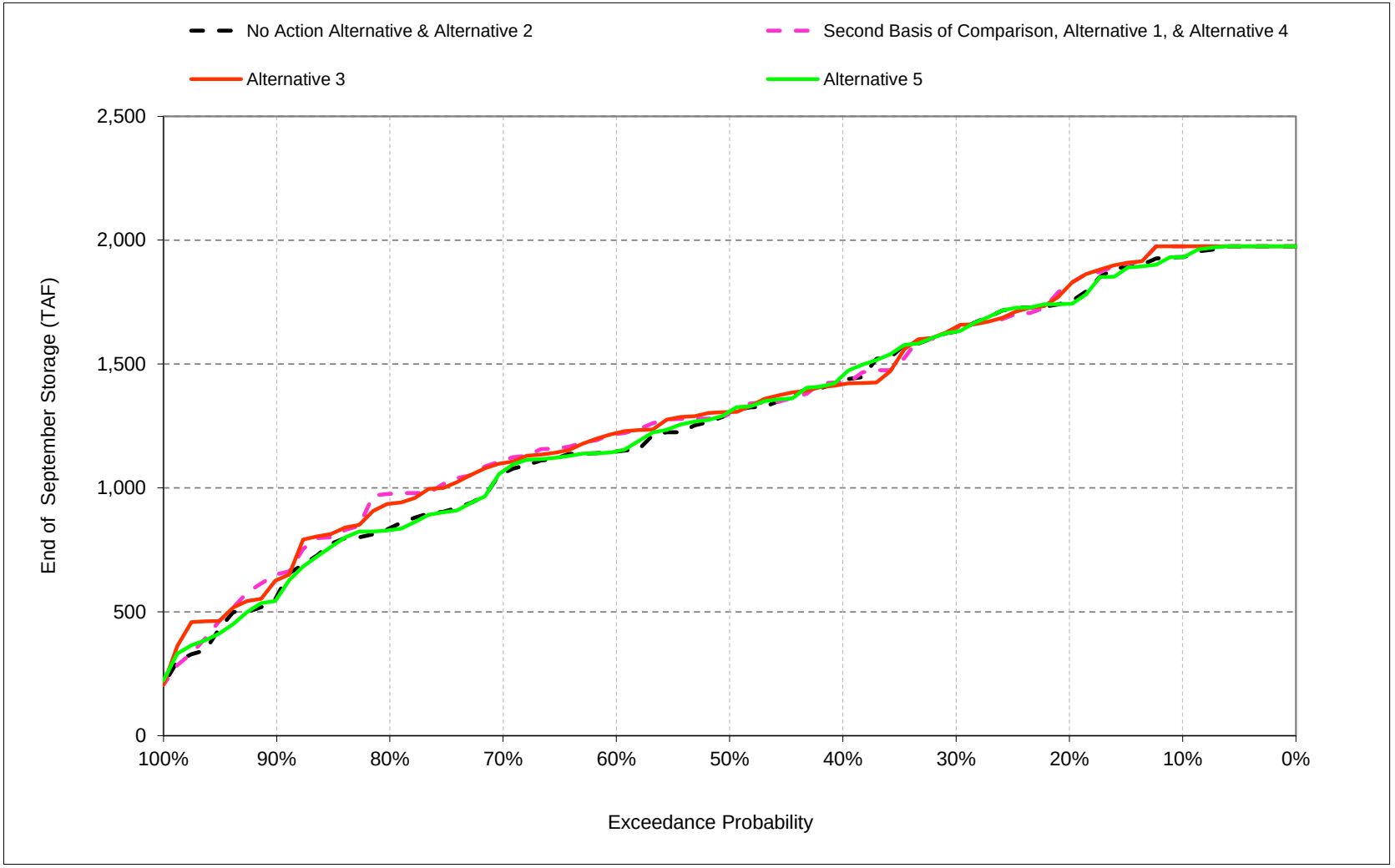
C.1. Trinity Storage

Figure C-1-1. Trinity Lake, End of May Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-1-2. Trinity Lake, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-1-1. Trinity Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,833	1,850	1,900	2,000	2,100	2,284	2,344	2,306	2,261	2,143	1,932
20%	1,764	1,735	1,797	1,889	2,000	2,100	2,251	2,271	2,207	2,064	1,905	1,753
30%	1,542	1,579	1,679	1,774	1,951	2,079	2,218	2,159	2,055	1,913	1,776	1,631
40%	1,383	1,370	1,557	1,673	1,769	1,982	2,115	2,024	1,916	1,774	1,583	1,432
50%	1,217	1,242	1,368	1,500	1,665	1,766	1,908	1,836	1,708	1,563	1,414	1,302
60%	1,119	1,154	1,235	1,277	1,496	1,668	1,793	1,719	1,628	1,423	1,264	1,147
70%	1,033	1,023	1,104	1,154	1,253	1,365	1,486	1,470	1,394	1,283	1,153	1,060
80%	831	855	876	973	1,033	1,139	1,312	1,282	1,222	1,058	924	838
90%	547	592	620	629	734	920	989	973	914	790	599	562
Long Term												
Full Simulation Period[b]	1,233	1,242	1,306	1,385	1,510	1,637	1,779	1,756	1,687	1,549	1,405	1,286
Water Year Types[c]												
Wet (32%)	1,490	1,516	1,630	1,756	1,921	2,053	2,220	2,245	2,190	2,067	1,939	1,784
Above Normal (16%)	1,159	1,178	1,286	1,455	1,658	1,847	2,025	1,999	1,907	1,773	1,619	1,495
Below Normal (13%)	1,393	1,400	1,417	1,488	1,575	1,662	1,817	1,743	1,637	1,470	1,304	1,185
Dry (24%)	1,152	1,148	1,174	1,182	1,274	1,403	1,539	1,490	1,413	1,253	1,104	1,008
Critical (15%)	747	731	746	750	790	872	923	888	862	745	612	536

Alternative 1

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,345	2,302	2,253	2,143	1,975
20%	1,804	1,840	1,850	1,900	2,000	2,100	2,255	2,276	2,193	2,055	1,920	1,822
30%	1,576	1,594	1,740	1,816	1,981	2,091	2,222	2,159	2,074	1,924	1,793	1,645
40%	1,391	1,446	1,568	1,705	1,855	2,019	2,131	2,030	1,918	1,767	1,582	1,426
50%	1,267	1,266	1,396	1,567	1,685	1,818	2,012	1,912	1,773	1,601	1,416	1,304
60%	1,174	1,201	1,230	1,335	1,535	1,709	1,778	1,749	1,677	1,497	1,330	1,218
70%	1,106	1,099	1,179	1,216	1,362	1,484	1,645	1,599	1,537	1,400	1,225	1,111
80%	948	954	983	1,052	1,132	1,274	1,453	1,434	1,338	1,168	1,055	976
90%	634	645	672	724	810	921	1,051	975	917	802	689	651
Long Term												
Full Simulation Period[b]	1,269	1,288	1,352	1,431	1,554	1,678	1,819	1,796	1,727	1,583	1,434	1,319
Water Year Types[c]												
Wet (32%)	1,501	1,535	1,644	1,767	1,931	2,055	2,224	2,250	2,194	2,068	1,939	1,805
Above Normal (16%)	1,208	1,245	1,363	1,524	1,718	1,901	2,079	2,053	1,955	1,815	1,647	1,513
Below Normal (13%)	1,451	1,472	1,492	1,554	1,641	1,729	1,872	1,799	1,696	1,515	1,337	1,204
Dry (24%)	1,178	1,184	1,210	1,230	1,322	1,453	1,586	1,536	1,466	1,302	1,152	1,055
Critical (15%)	819	803	813	825	868	949	999	962	929	811	667	598

Alternative 1 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	17	0	0	0	0	14	1	-4	-8	-1	43
20%	40	105	53	11	0	0	3	5	-14	-9	15	69
30%	34	15	62	42	30	12	5	0	18	12	17	15
40%	8	76	11	32	86	36	17	6	2	-8	-1	-6
50%	50	25	28	67	20	52	104	76	65	38	2	2
60%	55	47	-6	59	39	40	-14	30	49	74	66	71
70%	74	76	75	62	110	119	159	130	143	117	73	51
80%	117	100	107	79	99	136	141	152	117	110	131	139
90%	87	53	52	95	77	1	62	2	3	12	90	89
Long Term												
Full Simulation Period[b]	36	46	45	46	44	42	40	40	40	34	28	33
Water Year Types[c]												
Wet (32%)	11	19	14	11	9	2	4	5	4	0	-1	21
Above Normal (16%)	49	68	77	69	60	54	55	54	49	42	27	18
Below Normal (13%)	59	72	74	66	67	67	54	57	60	44	33	18
Dry (24%)	26	36	36	48	48	49	47	46	53	48	48	48
Critical (15%)	73	72	68	75	78	78	76	74	66	66	56	61

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 C-1-2. Trinity Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,833	1,850	1,900	2,000	2,100	2,284	2,344	2,306	2,261	2,143	1,932
20%	1,764	1,735	1,797	1,889	2,000	2,100	2,251	2,271	2,207	2,064	1,905	1,753
30%	1,542	1,579	1,679	1,774	1,951	2,079	2,218	2,159	2,055	1,913	1,776	1,631
40%	1,383	1,370	1,557	1,673	1,769	1,982	2,115	2,024	1,916	1,774	1,583	1,432
50%	1,217	1,242	1,368	1,500	1,665	1,766	1,908	1,836	1,708	1,563	1,414	1,302
60%	1,119	1,154	1,235	1,277	1,496	1,668	1,793	1,719	1,628	1,423	1,264	1,147
70%	1,033	1,023	1,104	1,154	1,253	1,365	1,486	1,470	1,394	1,283	1,153	1,060
80%	831	855	876	973	1,033	1,139	1,312	1,282	1,222	1,058	924	838
90%	547	592	620	629	734	920	989	973	914	790	599	562
Long Term												
Full Simulation Period[b]	1,233	1,242	1,306	1,385	1,510	1,637	1,779	1,756	1,687	1,549	1,405	1,286
Water Year Types[c]												
Wet (32%)	1,490	1,516	1,630	1,756	1,921	2,053	2,220	2,245	2,190	2,067	1,939	1,784
Above Normal (16%)	1,159	1,178	1,286	1,455	1,658	1,847	2,025	1,999	1,907	1,773	1,619	1,495
Below Normal (13%)	1,393	1,400	1,417	1,488	1,575	1,662	1,817	1,743	1,637	1,470	1,304	1,185
Dry (24%)	1,152	1,148	1,174	1,182	1,274	1,403	1,539	1,490	1,413	1,253	1,104	1,008
Critical (15%)	747	731	746	750	790	872	923	888	862	745	612	536

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,351	2,298	2,211	2,100	1,975
20%	1,815	1,831	1,849	1,900	2,000	2,100	2,259	2,246	2,204	2,064	1,903	1,818
30%	1,583	1,614	1,719	1,803	1,968	2,069	2,222	2,159	2,064	1,925	1,794	1,649
40%	1,365	1,400	1,572	1,671	1,858	1,995	2,104	2,046	1,937	1,759	1,581	1,419
50%	1,257	1,259	1,420	1,588	1,700	1,823	1,990	1,895	1,784	1,599	1,418	1,307
60%	1,169	1,205	1,233	1,318	1,536	1,721	1,787	1,748	1,674	1,495	1,334	1,221
70%	1,100	1,095	1,187	1,200	1,344	1,472	1,629	1,579	1,525	1,385	1,223	1,100
80%	909	956	961	1,041	1,155	1,250	1,429	1,407	1,322	1,160	1,019	937
90%	628	630	623	681	790	921	1,065	1,023	965	843	690	628
Long Term												
Full Simulation Period[b]	1,266	1,283	1,347	1,427	1,550	1,674	1,816	1,793	1,724	1,580	1,432	1,318
Water Year Types[c]												
Wet (32%)	1,502	1,537	1,643	1,766	1,928	2,053	2,224	2,248	2,192	2,067	1,936	1,805
Above Normal (16%)	1,197	1,230	1,349	1,511	1,707	1,891	2,071	2,045	1,949	1,806	1,646	1,513
Below Normal (13%)	1,434	1,457	1,477	1,542	1,629	1,717	1,858	1,786	1,680	1,509	1,334	1,199
Dry (24%)	1,173	1,179	1,206	1,226	1,318	1,450	1,585	1,537	1,468	1,301	1,152	1,056
Critical (15%)	829	803	817	829	871	952	1,003	968	936	813	664	600

Alternative 3 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	17	0	0	0	0	14	7	-8	-50	-43	43
20%	51	96	52	11	0	0	8	-25	-3	0	-2	65
30%	41	35	41	28	17	-10	4	0	8	12	18	19
40%	-18	30	15	-2	89	13	-11	22	21	-15	-2	-14
50%	39	17	52	88	35	57	82	59	76	36	4	5
60%	49	50	-2	41	39	52	-5	29	46	72	70	74
70%	67	72	83	46	92	108	143	109	130	102	70	41
80%	77	102	85	69	122	111	117	125	100	101	95	99
90%	81	39	3	52	56	2	76	50	52	53	92	66
Long Term												
Full Simulation Period[b]	32	41	40	42	40	38	37	37	37	32	27	32
Water Year Types[c]												
Wet (32%)	11	21	13	10	7	0	3	4	3	0	-3	21
Above Normal (16%)	38	53	63	56	49	45	46	46	42	33	27	18
Below Normal (13%)	41	57	60	54	55	55	40	43	43	38	30	13
Dry (24%)	21	31	32	45	44	47	46	47	55	48	48	48
Critical (15%)	82	73	71	79	81	81	80	80	73	68	53	64

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 C-1-3. Trinity Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,833	1,850	1,900	2,000	2,100	2,284	2,344	2,306	2,261	2,143	1,932
20%	1,764	1,735	1,797	1,889	2,000	2,100	2,251	2,271	2,207	2,064	1,905	1,753
30%	1,542	1,579	1,679	1,774	1,951	2,079	2,218	2,159	2,055	1,913	1,776	1,631
40%	1,383	1,370	1,557	1,673	1,769	1,982	2,115	2,024	1,916	1,774	1,583	1,432
50%	1,217	1,242	1,368	1,500	1,665	1,766	1,908	1,836	1,708	1,563	1,414	1,302
60%	1,119	1,154	1,235	1,277	1,496	1,668	1,793	1,719	1,628	1,423	1,264	1,147
70%	1,033	1,023	1,104	1,154	1,253	1,365	1,486	1,470	1,394	1,283	1,153	1,060
80%	831	855	876	973	1,033	1,139	1,312	1,282	1,222	1,058	924	838
90%	547	592	620	629	734	920	989	973	914	790	599	562
Long Term												
Full Simulation Period[b]	1,233	1,242	1,306	1,385	1,510	1,637	1,779	1,756	1,687	1,549	1,405	1,286
Water Year Types[c]												
Wet (32%)	1,490	1,516	1,630	1,756	1,921	2,053	2,220	2,245	2,190	2,067	1,939	1,784
Above Normal (16%)	1,159	1,178	1,286	1,455	1,658	1,847	2,025	1,999	1,907	1,773	1,619	1,495
Below Normal (13%)	1,393	1,400	1,417	1,488	1,575	1,662	1,817	1,743	1,637	1,470	1,304	1,185
Dry (24%)	1,152	1,148	1,174	1,182	1,274	1,403	1,539	1,490	1,413	1,253	1,104	1,008
Critical (15%)	747	731	746	750	790	872	923	888	862	745	612	536

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,828	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,262	2,143	1,932
20%	1,764	1,735	1,803	1,889	2,000	2,100	2,250	2,276	2,207	2,064	1,893	1,743
30%	1,542	1,577	1,694	1,779	1,954	2,084	2,220	2,159	2,055	1,913	1,776	1,631
40%	1,427	1,373	1,560	1,683	1,770	1,994	2,131	2,029	1,921	1,779	1,600	1,453
50%	1,231	1,253	1,376	1,518	1,671	1,771	1,895	1,842	1,728	1,563	1,420	1,309
60%	1,127	1,172	1,247	1,279	1,493	1,669	1,798	1,720	1,634	1,479	1,271	1,148
70%	1,051	1,037	1,098	1,146	1,250	1,378	1,484	1,460	1,390	1,268	1,139	1,067
80%	834	850	879	977	1,036	1,141	1,321	1,259	1,209	1,066	941	830
90%	537	589	594	628	733	908	983	967	922	811	607	553
Long Term												
Full Simulation Period[b]	1,235	1,244	1,309	1,387	1,512	1,638	1,779	1,756	1,688	1,553	1,411	1,288
Water Year Types[c]												
Wet (32%)	1,494	1,520	1,635	1,759	1,926	2,056	2,222	2,246	2,191	2,068	1,940	1,781
Above Normal (16%)	1,155	1,180	1,290	1,459	1,662	1,850	2,030	2,004	1,912	1,778	1,627	1,503
Below Normal (13%)	1,398	1,405	1,422	1,493	1,580	1,667	1,813	1,741	1,637	1,474	1,311	1,190
Dry (24%)	1,155	1,150	1,175	1,183	1,275	1,404	1,540	1,492	1,415	1,259	1,110	1,012
Critical (15%)	744	726	741	743	784	866	913	878	856	755	622	539

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	-5	0	0	0	0	-1	0	0	1	0	0
20%	0	0	7	0	0	0	-1	5	0	0	-12	-10
30%	0	-2	15	5	2	5	3	0	0	0	0	0
40%	45	3	2	9	1	12	16	6	5	5	17	21
50%	14	12	7	18	6	5	-13	6	19	0	6	7
60%	7	17	12	3	-3	1	5	1	5	56	7	1
70%	18	14	-6	-8	-3	14	-2	-9	-5	-15	-14	8
80%	3	-4	3	4	3	3	9	-23	-13	7	17	-8
90%	-10	-3	-26	-1	-1	-12	-7	-6	8	22	8	-10
Long Term												
Full Simulation Period[b]	1	2	3	2	2	1	0	0	1	4	5	2
Water Year Types[c]												
Wet (32%)	4	3	5	4	4	2	2	2	2	0	0	-2
Above Normal (16%)	-4	2	4	4	4	4	6	6	5	5	8	8
Below Normal (13%)	5	5	5	5	5	5	-5	-2	0	4	7	4
Dry (24%)	3	1	1	1	1	1	1	1	2	6	6	4
Critical (15%)	-2	-5	-4	-7	-6	-6	-10	-10	-7	10	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 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 C-1-4. Trinity Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,345	2,302	2,253	2,143	1,975
20%	1,804	1,840	1,850	1,900	2,000	2,100	2,255	2,276	2,193	2,055	1,920	1,822
30%	1,576	1,594	1,740	1,816	1,981	2,091	2,222	2,159	2,074	1,924	1,793	1,645
40%	1,391	1,446	1,568	1,705	1,855	2,019	2,131	2,030	1,918	1,767	1,582	1,426
50%	1,267	1,266	1,396	1,567	1,685	1,818	2,012	1,912	1,773	1,601	1,416	1,304
60%	1,174	1,201	1,230	1,335	1,535	1,709	1,778	1,749	1,677	1,497	1,330	1,218
70%	1,106	1,099	1,179	1,216	1,362	1,484	1,645	1,599	1,537	1,400	1,225	1,111
80%	948	954	983	1,052	1,132	1,274	1,453	1,434	1,338	1,168	1,055	976
90%	634	645	672	724	810	921	1,051	975	917	802	689	651
Long Term												
Full Simulation Period[b]	1,269	1,288	1,352	1,431	1,554	1,678	1,819	1,796	1,727	1,583	1,434	1,319
Water Year Types[c]												
Wet (32%)	1,501	1,535	1,644	1,767	1,931	2,055	2,224	2,250	2,194	2,068	1,939	1,805
Above Normal (16%)	1,208	1,245	1,363	1,524	1,718	1,901	2,079	2,053	1,955	1,815	1,647	1,513
Below Normal (13%)	1,451	1,472	1,492	1,554	1,641	1,729	1,872	1,799	1,696	1,515	1,337	1,204
Dry (24%)	1,178	1,184	1,210	1,230	1,322	1,453	1,586	1,536	1,466	1,302	1,152	1,055
Critical (15%)	819	803	813	825	868	949	999	962	929	811	667	598

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,833	1,850	1,900	2,000	2,100	2,284	2,344	2,306	2,261	2,143	1,932
20%	1,764	1,735	1,797	1,889	2,000	2,100	2,251	2,271	2,207	2,064	1,905	1,753
30%	1,542	1,579	1,679	1,774	1,951	2,079	2,218	2,159	2,055	1,913	1,776	1,631
40%	1,383	1,370	1,557	1,673	1,769	1,982	2,115	2,024	1,916	1,774	1,583	1,432
50%	1,217	1,242	1,368	1,500	1,665	1,766	1,908	1,836	1,708	1,563	1,414	1,302
60%	1,119	1,154	1,235	1,277	1,496	1,668	1,793	1,719	1,628	1,423	1,264	1,147
70%	1,033	1,023	1,104	1,154	1,253	1,365	1,486	1,470	1,394	1,283	1,153	1,060
80%	831	855	876	973	1,033	1,139	1,312	1,282	1,222	1,058	924	838
90%	547	592	620	629	734	920	989	973	914	790	599	562
Long Term												
Full Simulation Period[b]	1,233	1,242	1,306	1,385	1,510	1,637	1,779	1,756	1,687	1,549	1,405	1,286
Water Year Types[c]												
Wet (32%)	1,490	1,516	1,630	1,756	1,921	2,053	2,220	2,245	2,190	2,067	1,939	1,784
Above Normal (16%)	1,159	1,178	1,286	1,455	1,658	1,847	2,025	1,999	1,907	1,773	1,619	1,495
Below Normal (13%)	1,393	1,400	1,417	1,488	1,575	1,662	1,817	1,743	1,637	1,470	1,304	1,185
Dry (24%)	1,152	1,148	1,174	1,182	1,274	1,403	1,539	1,490	1,413	1,253	1,104	1,008
Critical (15%)	747	731	746	750	790	872	923	888	862	745	612	536

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	-17	0	0	0	0	-14	-1	4	8	1	-43
20%	-40	-105	-53	-11	0	0	-3	-5	14	9	-15	-69
30%	-34	-15	-62	-42	-30	-12	-5	0	-18	-12	-17	-15
40%	-8	-76	-11	-32	-86	-36	-17	-6	-2	8	1	6
50%	-50	-25	-28	-67	-20	-52	-104	-76	-65	-38	-2	-2
60%	-55	-47	6	-59	-39	-40	14	-30	-49	-74	-66	-71
70%	-74	-76	-75	-62	-110	-119	-159	-130	-143	-117	-73	-51
80%	-117	-100	-107	-79	-99	-136	-141	-152	-117	-110	-131	-139
90%	-87	-53	-52	-95	-77	-1	-62	-2	-3	-12	-90	-89
Long Term												
Full Simulation Period[b]	-36	-46	-45	-46	-44	-42	-40	-40	-40	-34	-28	-33
Water Year Types[c]												
Wet (32%)	-11	-19	-14	-11	-9	-2	-4	-5	-4	0	1	-21
Above Normal (16%)	-49	-68	-77	-69	-60	-54	-55	-54	-49	-42	-27	-18
Below Normal (13%)	-59	-72	-74	-66	-67	-67	-54	-57	-60	-44	-33	-18
Dry (24%)	-26	-36	-36	-48	-48	-49	-47	-46	-53	-48	-48	-48
Critical (15%)	-73	-72	-68	-75	-78	-78	-76	-74	-66	-66	-56	-61

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 C-1-5. Trinity Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,345	2,302	2,253	2,143	1,975
20%	1,804	1,840	1,850	1,900	2,000	2,100	2,255	2,276	2,193	2,055	1,920	1,822
30%	1,576	1,594	1,740	1,816	1,981	2,091	2,222	2,159	2,074	1,924	1,793	1,645
40%	1,391	1,446	1,568	1,705	1,855	2,019	2,131	2,030	1,918	1,767	1,582	1,426
50%	1,267	1,266	1,396	1,567	1,685	1,818	2,012	1,912	1,773	1,601	1,416	1,304
60%	1,174	1,201	1,230	1,335	1,535	1,709	1,778	1,749	1,677	1,497	1,330	1,218
70%	1,106	1,099	1,179	1,216	1,362	1,484	1,645	1,599	1,537	1,400	1,225	1,111
80%	948	954	983	1,052	1,132	1,274	1,453	1,434	1,338	1,168	1,055	976
90%	634	645	672	724	810	921	1,051	975	917	802	689	651
Long Term												
Full Simulation Period[b]	1,269	1,288	1,352	1,431	1,554	1,678	1,819	1,796	1,727	1,583	1,434	1,319
Water Year Types[c]												
Wet (32%)	1,501	1,535	1,644	1,767	1,931	2,055	2,224	2,250	2,194	2,068	1,939	1,805
Above Normal (16%)	1,208	1,245	1,363	1,524	1,718	1,901	2,079	2,053	1,955	1,815	1,647	1,513
Below Normal (13%)	1,451	1,472	1,492	1,554	1,641	1,729	1,872	1,799	1,696	1,515	1,337	1,204
Dry (24%)	1,178	1,184	1,210	1,230	1,322	1,453	1,586	1,536	1,466	1,302	1,152	1,055
Critical (15%)	819	803	813	825	868	949	999	962	929	811	667	598

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,351	2,298	2,211	2,100	1,975
20%	1,815	1,831	1,849	1,900	2,000	2,100	2,259	2,246	2,204	2,064	1,903	1,818
30%	1,583	1,614	1,719	1,803	1,968	2,069	2,222	2,159	2,064	1,925	1,794	1,649
40%	1,365	1,400	1,572	1,671	1,858	1,995	2,104	2,046	1,937	1,759	1,581	1,419
50%	1,257	1,259	1,420	1,588	1,700	1,823	1,990	1,895	1,784	1,599	1,418	1,307
60%	1,169	1,205	1,233	1,318	1,536	1,721	1,787	1,748	1,674	1,495	1,334	1,221
70%	1,100	1,095	1,187	1,200	1,344	1,472	1,629	1,579	1,525	1,385	1,223	1,100
80%	909	956	961	1,041	1,155	1,250	1,429	1,407	1,322	1,160	1,019	937
90%	628	630	623	681	790	921	1,065	1,023	965	843	690	628
Long Term												
Full Simulation Period[b]	1,266	1,283	1,347	1,427	1,550	1,674	1,816	1,793	1,724	1,580	1,432	1,318
Water Year Types[c]												
Wet (32%)	1,502	1,537	1,643	1,766	1,928	2,053	2,224	2,248	2,192	2,067	1,936	1,805
Above Normal (16%)	1,197	1,230	1,349	1,511	1,707	1,891	2,071	2,045	1,949	1,806	1,646	1,513
Below Normal (13%)	1,434	1,457	1,477	1,542	1,629	1,717	1,858	1,786	1,680	1,509	1,334	1,199
Dry (24%)	1,173	1,179	1,206	1,226	1,318	1,450	1,585	1,537	1,468	1,301	1,152	1,056
Critical (15%)	829	803	817	829	871	952	1,003	968	936	813	664	600

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	**0**	6	**-4**	**-42**	**-42**	0
20%	11	**-9**	**-1**	0	0	0	5	**-29**	11	9	**-17**	**-4**
30%	6	21	**-21**	**-13**	**-13**	**-22**	**-1**	0	**-10**	1	1	4
40%	**-26**	**-45**	4	**-34**	2	**-23**	**-27**	16	20	**-8**	**0**	**-8**
50%	**-11**	**-7**	24	21	16	5	**-22**	**-17**	11	**-2**	2	3
60%	**-6**	3	3	**-18**	0	12	9	**-1**	**-3**	**-2**	4	3
70%	**-7**	**-4**	8	**-16**	**-18**	**-12**	**-16**	**-21**	**-13**	**-15**	**-2**	**-11**
80%	**-39**	2	**-22**	**-10**	23	**-25**	**-24**	**-26**	**-16**	**-9**	**-36**	**-40**
90%	**-5**	**-14**	**-49**	**-43**	**-20**	0	14	48	49	41	2	**-23**
Long Term												
Full Simulation Period[b]	**-4**	**-5**	**-5**	**-4**	**-5**	**-4**	**-3**	**-3**	**-2**	**-2**	**-2**	**0**
Water Year Types[c]												
Wet (32%)	0	1	**-1**	**-1**	**-2**	**-1**	**-1**	**-2**	**-1**	**0**	**-3**	0
Above Normal (16%)	**-11**	**-15**	**-14**	**-13**	**-11**	**-10**	**-8**	**-8**	**-7**	**-9**	**0**	**0**
Below Normal (13%)	**-17**	**-15**	**-15**	**-12**	**-12**	**-12**	**-14**	**-13**	**-16**	**-6**	**-3**	**-5**
Dry (24%)	**-5**	**-5**	**-4**	**-4**	**-4**	**-2**	**-1**	0	2	**0**	**0**	1
Critical (15%)	10	1	3	3	3	3	4	6	7	2	**-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 C-1-6. Trinity Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,298	2,345	2,302	2,253	2,143	1,975
20%	1,804	1,840	1,850	1,900	2,000	2,100	2,255	2,276	2,193	2,055	1,920	1,822
30%	1,576	1,594	1,740	1,816	1,981	2,091	2,222	2,159	2,074	1,924	1,793	1,645
40%	1,391	1,446	1,568	1,705	1,855	2,019	2,131	2,030	1,918	1,767	1,582	1,426
50%	1,267	1,266	1,396	1,567	1,685	1,818	2,012	1,912	1,773	1,601	1,416	1,304
60%	1,174	1,201	1,230	1,335	1,535	1,709	1,778	1,749	1,677	1,497	1,330	1,218
70%	1,106	1,099	1,179	1,216	1,362	1,484	1,645	1,599	1,537	1,400	1,225	1,111
80%	948	954	983	1,052	1,132	1,274	1,453	1,434	1,338	1,168	1,055	976
90%	634	645	672	724	810	921	1,051	975	917	802	689	651
Long Term												
Full Simulation Period[b]	1,269	1,288	1,352	1,431	1,554	1,678	1,819	1,796	1,727	1,583	1,434	1,319
Water Year Types[c]												
Wet (32%)	1,501	1,535	1,644	1,767	1,931	2,055	2,224	2,250	2,194	2,068	1,939	1,805
Above Normal (16%)	1,208	1,245	1,363	1,524	1,718	1,901	2,079	2,053	1,955	1,815	1,647	1,513
Below Normal (13%)	1,451	1,472	1,492	1,554	1,641	1,729	1,872	1,799	1,696	1,515	1,337	1,204
Dry (24%)	1,178	1,184	1,210	1,230	1,322	1,453	1,586	1,536	1,466	1,302	1,152	1,055
Critical (15%)	819	803	813	825	868	949	999	962	929	811	667	598

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,850	1,828	1,850	1,900	2,000	2,100	2,283	2,344	2,306	2,262	2,143	1,932
20%	1,764	1,735	1,803	1,889	2,000	2,100	2,250	2,276	2,207	2,064	1,893	1,743
30%	1,542	1,577	1,694	1,779	1,954	2,084	2,220	2,159	2,055	1,913	1,776	1,631
40%	1,427	1,373	1,560	1,683	1,770	1,994	2,131	2,029	1,921	1,779	1,600	1,453
50%	1,231	1,253	1,376	1,518	1,671	1,771	1,895	1,842	1,728	1,563	1,420	1,309
60%	1,127	1,172	1,247	1,279	1,493	1,669	1,798	1,720	1,634	1,479	1,271	1,148
70%	1,051	1,037	1,098	1,146	1,250	1,378	1,484	1,460	1,390	1,268	1,139	1,067
80%	834	850	879	977	1,036	1,141	1,321	1,259	1,209	1,066	941	830
90%	537	589	594	628	733	908	983	967	922	811	607	553
Long Term												
Full Simulation Period[b]	1,235	1,244	1,309	1,387	1,512	1,638	1,779	1,756	1,688	1,553	1,411	1,288
Water Year Types[c]												
Wet (32%)	1,494	1,520	1,635	1,759	1,926	2,056	2,222	2,246	2,191	2,068	1,940	1,781
Above Normal (16%)	1,155	1,180	1,290	1,459	1,662	1,850	2,030	2,004	1,912	1,778	1,627	1,503
Below Normal (13%)	1,398	1,405	1,422	1,493	1,580	1,667	1,813	1,741	1,637	1,474	1,311	1,190
Dry (24%)	1,155	1,150	1,175	1,183	1,275	1,404	1,540	1,492	1,415	1,259	1,110	1,012
Critical (15%)	744	726	741	743	784	866	913	878	856	755	622	539

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	-22	0	0	0	0	-15	-1	4	10	1	-43
20%	-40	-105	-47	-11	0	0	-4	0	14	9	-27	-79
30%	-34	-17	-47	-36	-28	-6	-2	0	-18	-12	-17	-15
40%	37	-73	-9	-22	-85	-25	-1	-1	4	13	18	27
50%	-36	-13	-21	-49	-14	-47	-117	-70	-46	-38	4	4
60%	-48	-30	17	-56	-43	-40	19	-29	-44	-18	-59	-70
70%	-56	-62	-81	-70	-112	-105	-161	-139	-147	-132	-86	-44
80%	-114	-104	-104	-75	-96	-133	-131	-175	-129	-103	-114	-147
90%	-97	-56	-78	-96	-78	-13	-68	-8	5	10	-82	-99
Long Term												
Full Simulation Period[b]	-34	-44	-43	-45	-43	-40	-40	-40	-39	-30	-23	-30
Water Year Types[c]												
Wet (32%)	-7	-16	-9	-8	-5	1	-2	-3	-3	0	1	-23
Above Normal (16%)	-53	-65	-73	-65	-56	-51	-49	-49	-43	-37	-20	-11
Below Normal (13%)	-54	-67	-69	-61	-62	-62	-59	-58	-60	-40	-26	-14
Dry (24%)	-23	-35	-35	-48	-47	-48	-46	-45	-51	-42	-42	-43
Critical (15%)	-75	-77	-72	-82	-84	-84	-86	-84	-73	-56	-45	-59

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

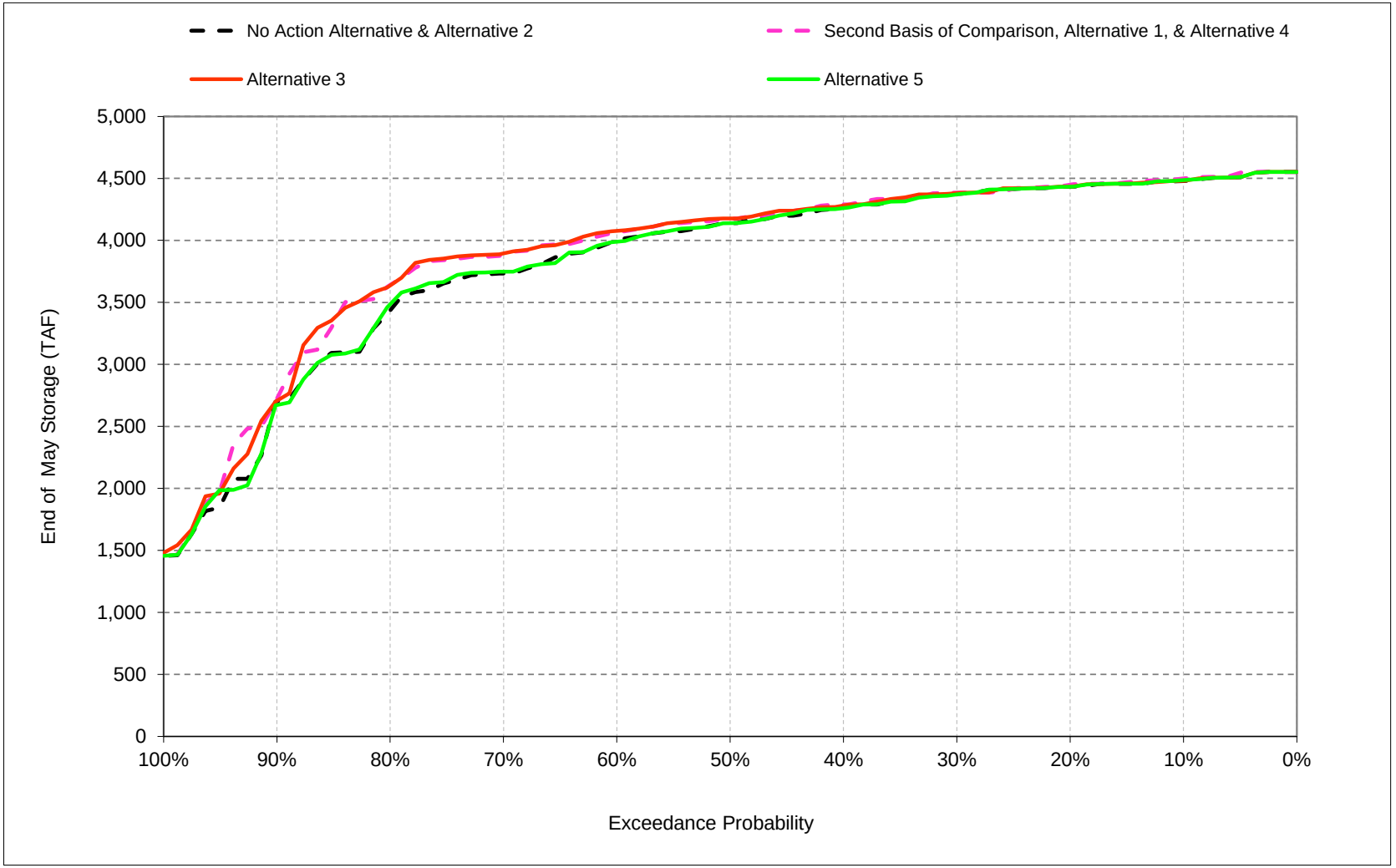
b Based on the 82-year simulation period.

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.

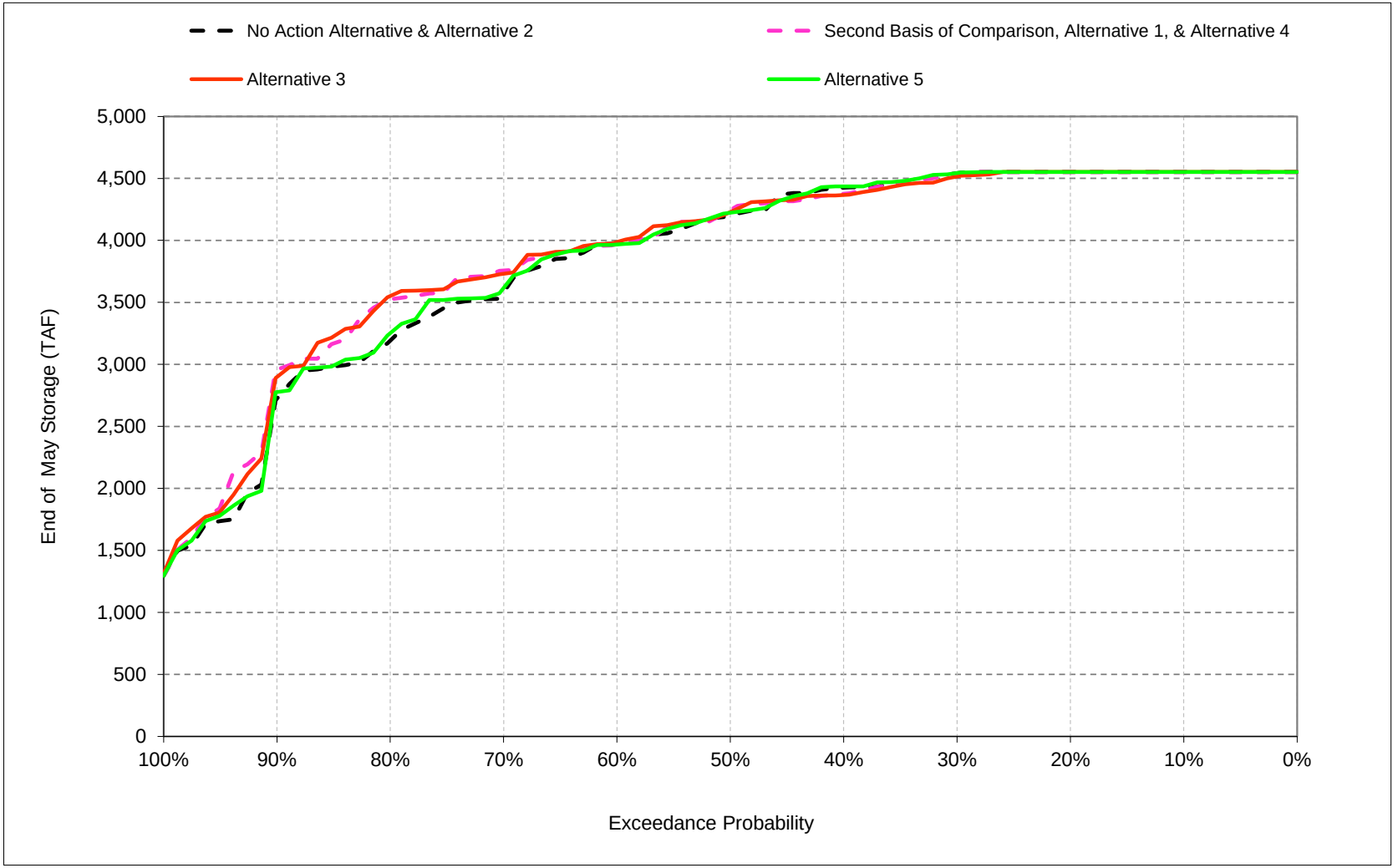
C.2. Shasta Storage

Figure C-2-1. Shasta Lake, End of April Storage



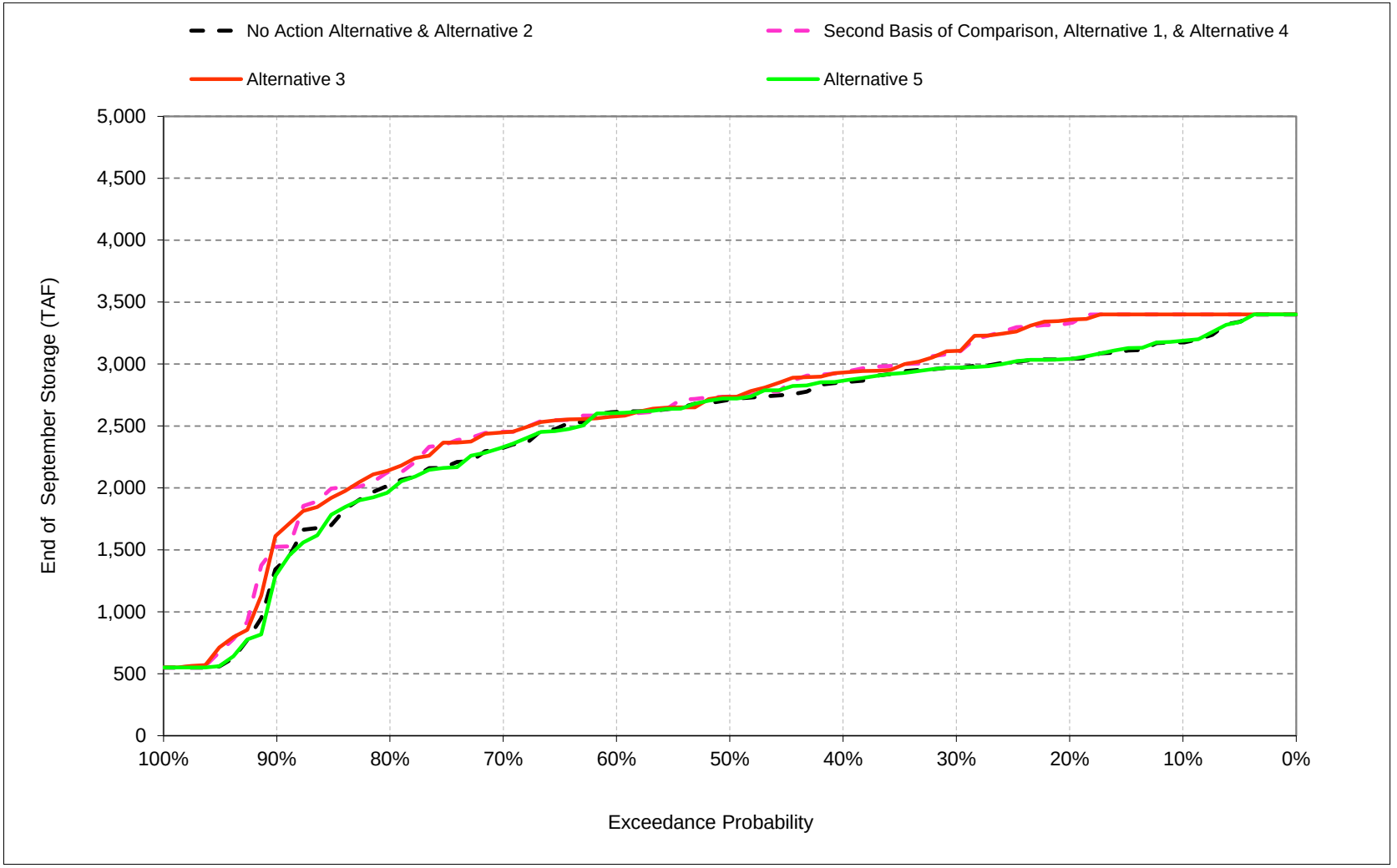
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-2-2. Shasta Lake, End of May Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-2-3. Shasta Lake, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-2-1. Shasta Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,209	3,322	3,615	3,812	4,217	4,479	4,552	4,452	3,904	3,575	3,176
20%	2,984	2,938	3,289	3,525	3,700	4,114	4,434	4,552	4,282	3,782	3,479	3,041
30%	2,854	2,759	3,252	3,375	3,616	3,998	4,376	4,542	4,196	3,577	3,227	2,970
40%	2,712	2,674	3,020	3,260	3,489	3,948	4,267	4,425	4,008	3,323	3,024	2,852
50%	2,586	2,531	2,759	3,156	3,388	3,764	4,139	4,202	3,774	3,178	2,841	2,713
60%	2,498	2,449	2,542	2,963	3,284	3,576	3,998	3,977	3,553	2,988	2,712	2,614
70%	2,234	2,251	2,345	2,625	3,145	3,422	3,733	3,580	3,299	2,701	2,491	2,324
80%	1,947	1,951	2,151	2,450	2,777	3,139	3,435	3,191	2,815	2,325	2,098	2,025
90%	1,261	1,240	1,336	1,964	2,191	2,552	2,701	2,725	2,357	1,781	1,402	1,354
Long Term												
Full Simulation Period[b]	2,400	2,378	2,591	2,899	3,185	3,553	3,835	3,847	3,519	2,986	2,676	2,483
Water Year Types[c]												
Wet (32%)	2,700	2,719	3,077	3,384	3,589	3,836	4,298	4,460	4,242	3,735	3,410	2,985
Above Normal (16%)	2,369	2,385	2,600	3,167	3,453	4,021	4,404	4,429	4,039	3,407	3,069	2,834
Below Normal (13%)	2,587	2,548	2,686	3,062	3,442	3,814	4,026	3,957	3,588	3,002	2,643	2,608
Dry (24%)	2,345	2,283	2,428	2,621	3,034	3,505	3,737	3,668	3,284	2,767	2,496	2,462
Critical (15%)	1,702	1,633	1,717	1,871	2,031	2,274	2,202	2,088	1,719	1,253	986	937

Alternative 1

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,359	3,632	3,911	4,222	4,499	4,552	4,434	3,902	3,563	3,400
20%	3,247	3,252	3,333	3,552	3,771	4,118	4,448	4,552	4,283	3,767	3,380	3,330
30%	3,127	3,199	3,304	3,513	3,673	4,018	4,384	4,532	4,155	3,546	3,174	3,096
40%	2,924	3,028	3,254	3,382	3,569	3,978	4,290	4,375	3,913	3,291	2,980	2,935
50%	2,689	2,753	3,134	3,314	3,487	3,916	4,175	4,245	3,712	3,139	2,781	2,738
60%	2,520	2,594	2,922	3,170	3,354	3,727	4,064	3,971	3,493	2,942	2,636	2,592
70%	2,345	2,467	2,643	2,891	3,252	3,513	3,886	3,757	3,332	2,790	2,527	2,453
80%	2,099	2,145	2,178	2,609	2,978	3,409	3,640	3,525	2,951	2,410	2,127	2,125
90%	1,414	1,350	1,524	2,050	2,383	2,760	2,722	2,958	2,604	1,986	1,584	1,526
Long Term												
Full Simulation Period[b]	2,530	2,578	2,753	3,020	3,285	3,639	3,913	3,907	3,539	3,007	2,674	2,607
Water Year Types[c]												
Wet (32%)	2,817	2,926	3,154	3,406	3,597	3,841	4,301	4,453	4,228	3,733	3,362	3,252
Above Normal (16%)	2,499	2,578	2,808	3,313	3,515	4,038	4,416	4,417	3,979	3,347	2,975	2,921
Below Normal (13%)	2,826	2,846	2,977	3,299	3,646	3,966	4,164	4,042	3,599	3,010	2,601	2,574
Dry (24%)	2,409	2,431	2,578	2,755	3,168	3,644	3,861	3,774	3,333	2,800	2,539	2,496
Critical (15%)	1,873	1,826	1,911	2,050	2,222	2,460	2,386	2,270	1,861	1,409	1,151	1,086

Alternative 1 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	50	43	37	17	99	5	20	0	-18	-1	-12	224
20%	263	314	43	27	71	3	15	0	1	-15	-99	289
30%	273	440	52	138	57	20	9	-11	-42	-31	-53	126
40%	211	355	234	122	80	30	22	-50	-95	-32	-44	83
50%	103	222	375	158	99	151	36	43	-62	-39	-60	25
60%	23	144	380	207	69	150	67	-6	-60	-46	-76	-22
70%	111	217	297	266	107	91	153	177	33	88	37	129
80%	152	193	28	159	201	271	206	335	136	85	29	99
90%	153	110	188	85	193	208	20	234	246	205	182	172
Long Term												
Full Simulation Period[b]	131	201	162	121	100	86	78	60	20	22	-2	124
Water Year Types[c]												
Wet (32%)	117	208	77	22	8	5	3	-7	-14	-2	-49	267
Above Normal (16%)	130	193	208	146	62	17	12	-11	-60	-60	-94	87
Below Normal (13%)	239	298	291	237	204	152	138	86	10	8	-42	-33
Dry (24%)	64	148	150	135	134	139	123	106	48	33	42	35
Critical (15%)	171	193	194	179	190	186	184	183	142	155	165	149

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 C-2-2. Shasta Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,209	3,322	3,615	3,812	4,217	4,479	4,552	4,452	3,904	3,575	3,176
20%	2,984	2,938	3,289	3,525	3,700	4,114	4,434	4,552	4,282	3,782	3,479	3,041
30%	2,854	2,759	3,252	3,375	3,616	3,998	4,376	4,542	4,196	3,577	3,227	2,970
40%	2,712	2,674	3,020	3,260	3,489	3,948	4,267	4,425	4,008	3,323	3,024	2,852
50%	2,586	2,531	2,759	3,156	3,388	3,764	4,139	4,202	3,774	3,178	2,841	2,713
60%	2,498	2,449	2,542	2,963	3,284	3,576	3,998	3,977	3,553	2,988	2,712	2,614
70%	2,234	2,251	2,345	2,625	3,145	3,422	3,733	3,580	3,299	2,701	2,491	2,324
80%	1,947	1,951	2,151	2,450	2,777	3,139	3,435	3,191	2,815	2,325	2,098	2,025
90%	1,261	1,240	1,336	1,964	2,191	2,552	2,701	2,725	2,357	1,781	1,402	1,354
Long Term												
Full Simulation Period[b]	2,400	2,378	2,591	2,899	3,185	3,553	3,835	3,847	3,519	2,986	2,676	2,483
Water Year Types[c]												
Wet (32%)	2,700	2,719	3,077	3,384	3,589	3,836	4,298	4,460	4,242	3,735	3,410	2,985
Above Normal (16%)	2,369	2,385	2,600	3,167	3,453	4,021	4,404	4,429	4,039	3,407	3,069	2,834
Below Normal (13%)	2,587	2,548	2,686	3,062	3,442	3,814	4,026	3,957	3,588	3,002	2,643	2,608
Dry (24%)	2,345	2,283	2,428	2,621	3,034	3,505	3,737	3,668	3,284	2,767	2,496	2,462
Critical (15%)	1,702	1,633	1,717	1,871	2,031	2,274	2,202	2,088	1,719	1,253	986	937

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,349	3,639	3,910	4,225	4,481	4,552	4,434	3,884	3,579	3,400
20%	3,200	3,251	3,321	3,552	3,771	4,127	4,435	4,552	4,276	3,764	3,421	3,358
30%	3,094	3,161	3,292	3,513	3,675	4,020	4,382	4,515	4,155	3,528	3,171	3,106
40%	2,918	3,066	3,257	3,370	3,592	3,975	4,281	4,367	3,917	3,296	2,999	2,933
50%	2,680	2,774	3,085	3,277	3,484	3,866	4,177	4,228	3,736	3,148	2,761	2,735
60%	2,475	2,593	2,921	3,173	3,330	3,751	4,078	3,987	3,504	2,992	2,668	2,579
70%	2,379	2,412	2,634	2,889	3,252	3,513	3,895	3,731	3,375	2,802	2,547	2,448
80%	2,107	2,114	2,239	2,610	2,981	3,387	3,636	3,552	2,996	2,475	2,188	2,146
90%	1,527	1,514	1,581	2,107	2,371	2,814	2,706	2,899	2,628	2,089	1,752	1,621
Long Term												
Full Simulation Period[b]	2,525	2,578	2,750	3,019	3,284	3,636	3,914	3,908	3,543	3,013	2,687	2,605
Water Year Types[c]												
Wet (32%)	2,816	2,932	3,161	3,408	3,597	3,841	4,301	4,453	4,221	3,720	3,370	3,244
Above Normal (16%)	2,475	2,555	2,783	3,303	3,509	4,023	4,403	4,401	3,975	3,350	2,998	2,946
Below Normal (13%)	2,818	2,851	2,983	3,302	3,650	3,971	4,176	4,056	3,631	3,036	2,669	2,562
Dry (24%)	2,431	2,451	2,590	2,770	3,189	3,662	3,885	3,798	3,359	2,826	2,542	2,500
Critical (15%)	1,833	1,793	1,877	2,024	2,184	2,424	2,354	2,237	1,836	1,406	1,129	1,066

Alternative 3 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	50	43	27	25	98	8	2	0	-18	-20	4	224
20%	216	313	32	26	71	13	1	0	-7	-17	-58	316
30%	240	402	40	138	59	22	6	-27	-41	-48	-56	136
40%	206	392	237	110	104	27	14	-59	-91	-27	-26	80
50%	94	244	326	122	96	101	39	26	-38	-29	-80	23
60%	-23	143	379	209	46	175	80	11	-49	4	-44	-35
70%	145	162	289	264	107	91	163	151	76	101	56	124
80%	160	163	89	160	204	248	201	361	181	150	90	120
90%	266	274	245	143	180	263	5	174	271	308	351	267
Long Term												
Full Simulation Period[b]	125	200	158	120	99	83	79	60	24	27	11	122
Water Year Types[c]												
Wet (32%)	116	214	84	24	8	5	2	-7	-21	-16	-41	260
Above Normal (16%)	106	170	183	136	56	2	-1	-27	-64	-57	-71	112
Below Normal (13%)	231	302	296	240	208	157	150	99	42	34	26	-46
Dry (24%)	86	168	162	149	155	156	148	130	74	58	45	38
Critical (15%)	131	160	160	153	152	149	152	149	117	153	143	129

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 C-2-3. Shasta Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,209	3,322	3,615	3,812	4,217	4,479	4,552	4,452	3,904	3,575	3,176
20%	2,984	2,938	3,289	3,525	3,700	4,114	4,434	4,552	4,282	3,782	3,479	3,041
30%	2,854	2,759	3,252	3,375	3,616	3,998	4,376	4,542	4,196	3,577	3,227	2,970
40%	2,712	2,674	3,020	3,260	3,489	3,948	4,267	4,425	4,008	3,323	3,024	2,852
50%	2,586	2,531	2,759	3,156	3,388	3,764	4,139	4,202	3,774	3,178	2,841	2,713
60%	2,498	2,449	2,542	2,963	3,284	3,576	3,998	3,977	3,553	2,988	2,712	2,614
70%	2,234	2,251	2,345	2,625	3,145	3,422	3,733	3,580	3,299	2,701	2,491	2,324
80%	1,947	1,951	2,151	2,450	2,777	3,139	3,435	3,191	2,815	2,325	2,098	2,025
90%	1,261	1,240	1,336	1,964	2,191	2,552	2,701	2,725	2,357	1,781	1,402	1,354
Long Term												
Full Simulation Period[b]	2,400	2,378	2,591	2,899	3,185	3,553	3,835	3,847	3,519	2,986	2,676	2,483
Water Year Types[c]												
Wet (32%)	2,700	2,719	3,077	3,384	3,589	3,836	4,298	4,460	4,242	3,735	3,410	2,985
Above Normal (16%)	2,369	2,385	2,600	3,167	3,453	4,021	4,404	4,429	4,039	3,407	3,069	2,834
Below Normal (13%)	2,587	2,548	2,686	3,062	3,442	3,814	4,026	3,957	3,588	3,002	2,643	2,608
Dry (24%)	2,345	2,283	2,428	2,621	3,034	3,505	3,737	3,668	3,284	2,767	2,496	2,462
Critical (15%)	1,702	1,633	1,717	1,871	2,031	2,274	2,202	2,088	1,719	1,253	986	937

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,242	3,322	3,615	3,812	4,217	4,486	4,552	4,451	3,905	3,580	3,188
20%	3,018	2,911	3,293	3,525	3,704	4,114	4,434	4,552	4,282	3,762	3,471	3,041
30%	2,878	2,770	3,252	3,370	3,616	3,998	4,371	4,542	4,196	3,578	3,239	2,971
40%	2,735	2,684	3,037	3,270	3,496	3,944	4,260	4,435	3,973	3,313	3,027	2,866
50%	2,615	2,540	2,771	3,188	3,391	3,756	4,139	4,223	3,785	3,196	2,859	2,722
60%	2,495	2,452	2,537	2,971	3,284	3,590	3,989	3,967	3,595	3,020	2,738	2,605
70%	2,246	2,250	2,355	2,639	3,163	3,417	3,748	3,615	3,292	2,728	2,489	2,330
80%	1,912	1,958	2,146	2,447	2,766	3,151	3,485	3,251	2,855	2,356	2,051	1,979
90%	1,216	1,196	1,281	1,929	2,246	2,565	2,672	2,777	2,423	1,794	1,341	1,308
Long Term												
Full Simulation Period[b]	2,399	2,377	2,593	2,900	3,185	3,552	3,838	3,859	3,534	2,991	2,675	2,483
Water Year Types[c]												
Wet (32%)	2,704	2,716	3,078	3,385	3,590	3,836	4,299	4,461	4,243	3,736	3,410	2,989
Above Normal (16%)	2,369	2,388	2,598	3,164	3,454	4,019	4,401	4,430	4,042	3,409	3,071	2,842
Below Normal (13%)	2,603	2,565	2,704	3,077	3,450	3,820	4,039	3,970	3,602	3,012	2,663	2,620
Dry (24%)	2,344	2,287	2,433	2,627	3,039	3,509	3,745	3,699	3,315	2,787	2,497	2,459
Critical (15%)	1,676	1,611	1,700	1,856	2,015	2,258	2,203	2,104	1,749	1,246	958	910

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	33	0	0	0	0	7	0	-1	1	5	12
20%	34	-27	3	0	4	0	0	0	0	-20	-9	0
30%	24	11	0	-5	0	0	-5	0	0	1	12	1
40%	22	11	17	10	7	-4	-7	10	-35	-10	3	14
50%	29	9	12	33	2	-8	0	20	11	19	19	9
60%	-2	3	-5	7	0	14	-8	-10	43	32	26	-8
70%	12	-1	10	14	18	-5	15	35	-7	27	-2	6
80%	-35	7	-4	-3	-11	12	50	60	40	30	-47	-46
90%	-45	-44	-55	-35	55	13	-30	53	66	13	-61	-47
Long Term												
Full Simulation Period[b]	-1	0	1	1	0	-1	3	12	15	5	-1	0
Water Year Types[c]												
Wet (32%)	4	-3	1	1	0	0	1	1	1	0	0	4
Above Normal (16%)	0	4	-2	-3	0	-1	-3	2	3	2	2	8
Below Normal (13%)	16	16	18	16	8	6	13	13	14	10	20	12
Dry (24%)	-1	4	5	6	5	4	8	31	31	20	1	-3
Critical (15%)	-25	-22	-17	-15	-16	-16	1	16	31	-7	-28	-26

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 C-2-4. Shasta Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,359	3,632	3,911	4,222	4,499	4,552	4,434	3,902	3,563	3,400
20%	3,247	3,252	3,333	3,552	3,771	4,118	4,448	4,552	4,283	3,767	3,380	3,330
30%	3,127	3,199	3,304	3,513	3,673	4,018	4,384	4,532	4,155	3,546	3,174	3,096
40%	2,924	3,028	3,254	3,382	3,569	3,978	4,290	4,375	3,913	3,291	2,980	2,935
50%	2,689	2,753	3,134	3,314	3,487	3,916	4,175	4,245	3,712	3,139	2,781	2,738
60%	2,520	2,594	2,922	3,170	3,354	3,727	4,064	3,971	3,493	2,942	2,636	2,592
70%	2,345	2,467	2,643	2,891	3,252	3,513	3,886	3,757	3,332	2,790	2,527	2,453
80%	2,099	2,145	2,178	2,609	2,978	3,409	3,640	3,525	2,951	2,410	2,127	2,125
90%	1,414	1,350	1,524	2,050	2,383	2,760	2,722	2,958	2,604	1,986	1,584	1,526
Long Term												
Full Simulation Period[b]	2,530	2,578	2,753	3,020	3,285	3,639	3,913	3,907	3,539	3,007	2,674	2,607
Water Year Types[c]												
Wet (32%)	2,817	2,926	3,154	3,406	3,597	3,841	4,301	4,453	4,228	3,733	3,362	3,252
Above Normal (16%)	2,499	2,578	2,808	3,313	3,515	4,038	4,416	4,417	3,979	3,347	2,975	2,921
Below Normal (13%)	2,826	2,846	2,977	3,299	3,646	3,966	4,164	4,042	3,599	3,010	2,601	2,574
Dry (24%)	2,409	2,431	2,578	2,755	3,168	3,644	3,861	3,774	3,333	2,800	2,539	2,496
Critical (15%)	1,873	1,826	1,911	2,050	2,222	2,460	2,386	2,270	1,861	1,409	1,151	1,086

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,209	3,322	3,615	3,812	4,217	4,479	4,552	4,452	3,904	3,575	3,176
20%	2,984	2,938	3,289	3,525	3,700	4,114	4,434	4,552	4,282	3,782	3,479	3,041
30%	2,854	2,759	3,252	3,375	3,616	3,998	4,376	4,542	4,196	3,577	3,227	2,970
40%	2,712	2,674	3,020	3,260	3,489	3,948	4,267	4,425	4,008	3,323	3,024	2,852
50%	2,586	2,531	2,759	3,156	3,388	3,764	4,139	4,202	3,774	3,178	2,841	2,713
60%	2,498	2,449	2,542	2,963	3,284	3,576	3,998	3,977	3,553	2,988	2,712	2,614
70%	2,234	2,251	2,345	2,625	3,145	3,422	3,733	3,580	3,299	2,701	2,491	2,324
80%	1,947	1,951	2,151	2,450	2,777	3,139	3,435	3,191	2,815	2,325	2,098	2,025
90%	1,261	1,240	1,336	1,964	2,191	2,552	2,701	2,725	2,357	1,781	1,402	1,354
Long Term												
Full Simulation Period[b]	2,400	2,378	2,591	2,899	3,185	3,553	3,835	3,847	3,519	2,986	2,676	2,483
Water Year Types[c]												
Wet (32%)	2,700	2,719	3,077	3,384	3,589	3,836	4,298	4,460	4,242	3,735	3,410	2,985
Above Normal (16%)	2,369	2,385	2,600	3,167	3,453	4,021	4,404	4,429	4,039	3,407	3,069	2,834
Below Normal (13%)	2,587	2,548	2,686	3,062	3,442	3,814	4,026	3,957	3,588	3,002	2,643	2,608
Dry (24%)	2,345	2,283	2,428	2,621	3,034	3,505	3,737	3,668	3,284	2,767	2,496	2,462
Critical (15%)	1,702	1,633	1,717	1,871	2,031	2,274	2,202	2,088	1,719	1,253	986	937

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-50	-43	-37	-17	-99	-5	-20	0	18	1	12	-224
20%	-263	-314	-43	-27	-71	-3	-15	0	-1	15	99	-289
30%	-273	-440	-52	-138	-57	-20	-9	11	42	31	53	-126
40%	-211	-355	-234	-122	-80	-30	-22	50	95	32	44	-83
50%	-103	-222	-375	-158	-99	-151	-36	-43	62	39	60	-25
60%	-23	-144	-380	-207	-69	-150	-67	6	60	46	76	22
70%	-111	-217	-297	-266	-107	-91	-153	-177	-33	-88	-37	-129
80%	-152	-193	-28	-159	-201	-271	-206	-335	-136	-85	-29	-99
90%	-153	-110	-188	-85	-193	-208	-20	-234	-246	-205	-182	-172
Long Term												
Full Simulation Period[b]	-131	-201	-162	-121	-100	-86	-78	-60	-20	-22	2	-124
Water Year Types[c]												
Wet (32%)	-117	-208	-77	-22	-8	-5	-3	7	14	2	49	-267
Above Normal (16%)	-130	-193	-208	-146	-62	-17	-12	11	60	60	94	-87
Below Normal (13%)	-239	-298	-291	-237	-204	-152	-138	-86	-10	-8	42	33
Dry (24%)	-64	-148	-150	-135	-134	-139	-123	-106	-48	-33	-42	-35
Critical (15%)	-171	-193	-194	-179	-190	-186	-184	-183	-142	-155	-165	-149

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 C-2-5. Shasta Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,359	3,632	3,911	4,222	4,499	4,552	4,434	3,902	3,563	3,400
20%	3,247	3,252	3,333	3,552	3,771	4,118	4,448	4,552	4,283	3,767	3,380	3,330
30%	3,127	3,199	3,304	3,513	3,673	4,018	4,384	4,532	4,155	3,546	3,174	3,096
40%	2,924	3,028	3,254	3,382	3,569	3,978	4,290	4,375	3,913	3,291	2,980	2,935
50%	2,689	2,753	3,134	3,314	3,487	3,916	4,175	4,245	3,712	3,139	2,781	2,738
60%	2,520	2,594	2,922	3,170	3,354	3,727	4,064	3,971	3,493	2,942	2,636	2,592
70%	2,345	2,467	2,643	2,891	3,252	3,513	3,886	3,757	3,332	2,790	2,527	2,453
80%	2,099	2,145	2,178	2,609	2,978	3,409	3,640	3,525	2,951	2,410	2,127	2,125
90%	1,414	1,350	1,524	2,050	2,383	2,760	2,722	2,958	2,604	1,986	1,584	1,526
Long Term												
Full Simulation Period[b]	2,530	2,578	2,753	3,020	3,285	3,639	3,913	3,907	3,539	3,007	2,674	2,607
Water Year Types[c]												
Wet (32%)	2,817	2,926	3,154	3,406	3,597	3,841	4,301	4,453	4,228	3,733	3,362	3,252
Above Normal (16%)	2,499	2,578	2,808	3,313	3,515	4,038	4,416	4,417	3,979	3,347	2,975	2,921
Below Normal (13%)	2,826	2,846	2,977	3,299	3,646	3,966	4,164	4,042	3,599	3,010	2,601	2,574
Dry (24%)	2,409	2,431	2,578	2,755	3,168	3,644	3,861	3,774	3,333	2,800	2,539	2,496
Critical (15%)	1,873	1,826	1,911	2,050	2,222	2,460	2,386	2,270	1,861	1,409	1,151	1,086

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,349	3,639	3,910	4,225	4,481	4,552	4,434	3,884	3,579	3,400
20%	3,200	3,251	3,321	3,552	3,771	4,127	4,435	4,552	4,276	3,764	3,421	3,358
30%	3,094	3,161	3,292	3,513	3,675	4,020	4,382	4,515	4,155	3,528	3,171	3,106
40%	2,918	3,066	3,257	3,370	3,592	3,975	4,281	4,367	3,917	3,296	2,999	2,933
50%	2,680	2,774	3,085	3,277	3,484	3,866	4,177	4,228	3,736	3,148	2,761	2,735
60%	2,475	2,593	2,921	3,173	3,330	3,751	4,078	3,987	3,504	2,992	2,668	2,579
70%	2,379	2,412	2,634	2,889	3,252	3,513	3,895	3,731	3,375	2,802	2,547	2,448
80%	2,107	2,114	2,239	2,610	2,981	3,387	3,636	3,552	2,996	2,475	2,188	2,146
90%	1,527	1,514	1,581	2,107	2,371	2,814	2,706	2,899	2,628	2,089	1,752	1,621
Long Term												
Full Simulation Period[b]	2,525	2,578	2,750	3,019	3,284	3,636	3,914	3,908	3,543	3,013	2,687	2,605
Water Year Types[c]												
Wet (32%)	2,816	2,932	3,161	3,408	3,597	3,841	4,301	4,453	4,221	3,720	3,370	3,244
Above Normal (16%)	2,475	2,555	2,783	3,303	3,509	4,023	4,403	4,401	3,975	3,350	2,998	2,946
Below Normal (13%)	2,818	2,851	2,983	3,302	3,650	3,971	4,176	4,056	3,631	3,036	2,669	2,562
Dry (24%)	2,431	2,451	2,590	2,770	3,189	3,662	3,885	3,798	3,359	2,826	2,542	2,500
Critical (15%)	1,833	1,793	1,877	2,024	2,184	2,424	2,354	2,237	1,836	1,406	1,129	1,066

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	-10	7	-1	3	-17	0	0	-18	16	0
20%	-48	-1	-11	0	0	9	-14	0	-8	-3	41	27
30%	-34	-38	-11	0	2	2	-3	-16	0	-18	-3	10
40%	-5	37	3	-12	24	-3	-9	-8	4	4	18	-2
50%	-8	22	-49	-36	-3	-50	2	-17	24	9	-20	-2
60%	-46	-1	-1	3	-24	25	13	17	11	50	32	-13
70%	34	-55	-8	-2	0	0	10	-26	43	13	19	-5
80%	8	-31	61	1	3	-23	-5	26	45	65	61	21
90%	113	164	57	57	-13	54	-15	-59	25	103	168	95
Long Term												
Full Simulation Period[b]	-6	-1	-3	-1	-1	-3	1	0	4	6	13	-2
Water Year Types[c]												
Wet (32%)	-1	6	7	2	0	0	0	0	-7	-13	8	-8
Above Normal (16%)	-24	-23	-25	-11	-6	-15	-13	-16	-4	3	23	25
Below Normal (13%)	-9	5	5	3	4	5	12	13	32	26	68	-13
Dry (24%)	22	21	12	15	22	17	24	24	26	25	3	4
Critical (15%)	-40	-33	-34	-26	-38	-36	-32	-33	-25	-2	-22	-20

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 C-2-6. Shasta Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,250	3,252	3,359	3,632	3,911	4,222	4,499	4,552	4,434	3,902	3,563	3,400
20%	3,247	3,252	3,333	3,552	3,771	4,118	4,448	4,552	4,283	3,767	3,380	3,330
30%	3,127	3,199	3,304	3,513	3,673	4,018	4,384	4,532	4,155	3,546	3,174	3,096
40%	2,924	3,028	3,254	3,382	3,569	3,978	4,290	4,375	3,913	3,291	2,980	2,935
50%	2,689	2,753	3,134	3,314	3,487	3,916	4,175	4,245	3,712	3,139	2,781	2,738
60%	2,520	2,594	2,922	3,170	3,354	3,727	4,064	3,971	3,493	2,942	2,636	2,592
70%	2,345	2,467	2,643	2,891	3,252	3,513	3,886	3,757	3,332	2,790	2,527	2,453
80%	2,099	2,145	2,178	2,609	2,978	3,409	3,640	3,525	2,951	2,410	2,127	2,125
90%	1,414	1,350	1,524	2,050	2,383	2,760	2,722	2,958	2,604	1,986	1,584	1,526
Long Term												
Full Simulation Period[b]	2,530	2,578	2,753	3,020	3,285	3,639	3,913	3,907	3,539	3,007	2,674	2,607
Water Year Types[c]												
Wet (32%)	2,817	2,926	3,154	3,406	3,597	3,841	4,301	4,453	4,228	3,733	3,362	3,252
Above Normal (16%)	2,499	2,578	2,808	3,313	3,515	4,038	4,416	4,417	3,979	3,347	2,975	2,921
Below Normal (13%)	2,826	2,846	2,977	3,299	3,646	3,966	4,164	4,042	3,599	3,010	2,601	2,574
Dry (24%)	2,409	2,431	2,578	2,755	3,168	3,644	3,861	3,774	3,333	2,800	2,539	2,496
Critical (15%)	1,873	1,826	1,911	2,050	2,222	2,460	2,386	2,270	1,861	1,409	1,151	1,086

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,200	3,242	3,322	3,615	3,812	4,217	4,486	4,552	4,451	3,905	3,580	3,188
20%	3,018	2,911	3,293	3,525	3,704	4,114	4,434	4,552	4,282	3,762	3,471	3,041
30%	2,878	2,770	3,252	3,370	3,616	3,998	4,371	4,542	4,196	3,578	3,239	2,971
40%	2,735	2,684	3,037	3,270	3,496	3,944	4,260	4,435	3,973	3,313	3,027	2,866
50%	2,615	2,540	2,771	3,188	3,391	3,756	4,139	4,223	3,785	3,196	2,859	2,722
60%	2,495	2,452	2,537	2,971	3,284	3,590	3,989	3,967	3,595	3,020	2,738	2,605
70%	2,246	2,250	2,355	2,639	3,163	3,417	3,748	3,615	3,292	2,728	2,489	2,330
80%	1,912	1,958	2,146	2,447	2,766	3,151	3,485	3,251	2,855	2,356	2,051	1,979
90%	1,216	1,196	1,281	1,929	2,246	2,565	2,672	2,777	2,423	1,794	1,341	1,308
Long Term												
Full Simulation Period[b]	2,399	2,377	2,593	2,900	3,185	3,552	3,838	3,859	3,534	2,991	2,675	2,483
Water Year Types[c]												
Wet (32%)	2,704	2,716	3,078	3,385	3,590	3,836	4,299	4,461	4,243	3,736	3,410	2,989
Above Normal (16%)	2,369	2,388	2,598	3,164	3,454	4,019	4,401	4,430	4,042	3,409	3,071	2,842
Below Normal (13%)	2,603	2,565	2,704	3,077	3,450	3,820	4,039	3,970	3,602	3,012	2,663	2,620
Dry (24%)	2,344	2,287	2,433	2,627	3,039	3,509	3,745	3,699	3,315	2,787	2,497	2,459
Critical (15%)	1,676	1,611	1,700	1,856	2,015	2,258	2,203	2,104	1,749	1,246	958	910

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-50	-10	-37	-17	-99	-5	-12	0	17	3	17	-212
20%	-229	-341	-40	-27	-66	-3	-15	0	-1	-5	91	-289
30%	-250	-429	-52	-143	-57	-20	-14	11	42	32	66	-124
40%	-189	-344	-217	-112	-73	-34	-30	60	60	21	47	-69
50%	-73	-213	-363	-125	-96	-160	-36	-22	73	58	78	-15
60%	-25	-141	-385	-199	-69	-137	-75	-3	102	78	102	13
70%	-99	-218	-287	-252	-89	-96	-138	-142	-40	-61	-39	-124
80%	-187	-187	-32	-162	-212	-259	-156	-274	-96	-54	-76	-145
90%	-198	-154	-244	-121	-138	-195	-50	-181	-180	-192	-243	-218
Long Term												
Full Simulation Period[b]	-131	-201	-160	-120	-100	-87	-75	-48	-5	-16	1	-125
Water Year Types[c]												
Wet (32%)	-114	-211	-76	-21	-8	-5	-2	7	15	3	48	-263
Above Normal (16%)	-130	-190	-210	-149	-62	-19	-15	13	63	62	97	-79
Below Normal (13%)	-224	-281	-273	-221	-196	-146	-125	-72	3	1	62	45
Dry (24%)	-64	-144	-145	-129	-129	-135	-116	-75	-18	-13	-41	-38
Critical (15%)	-197	-215	-211	-194	-207	-202	-183	-166	-111	-163	-193	-176

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

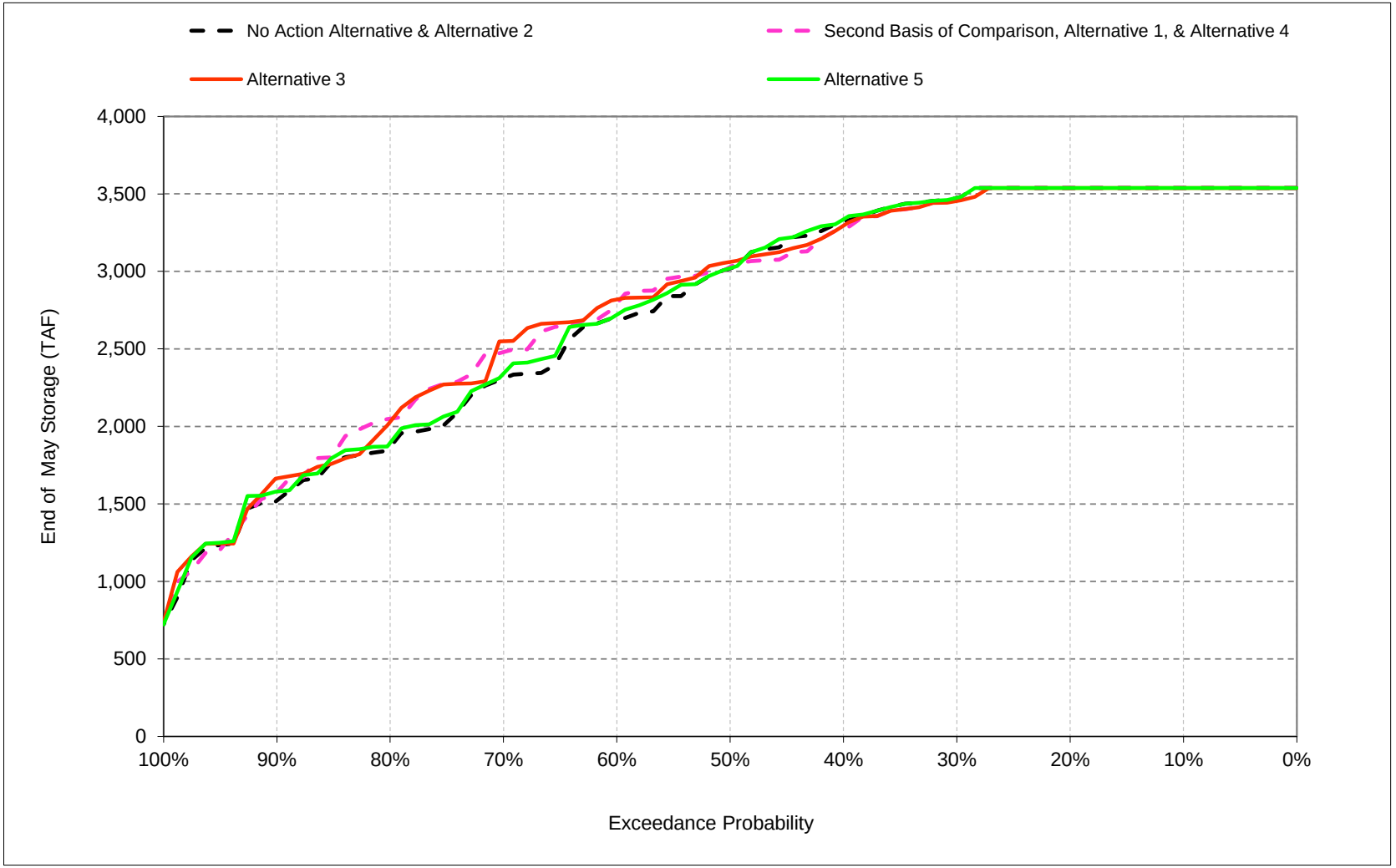
b Based on the 82-year simulation period.

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.

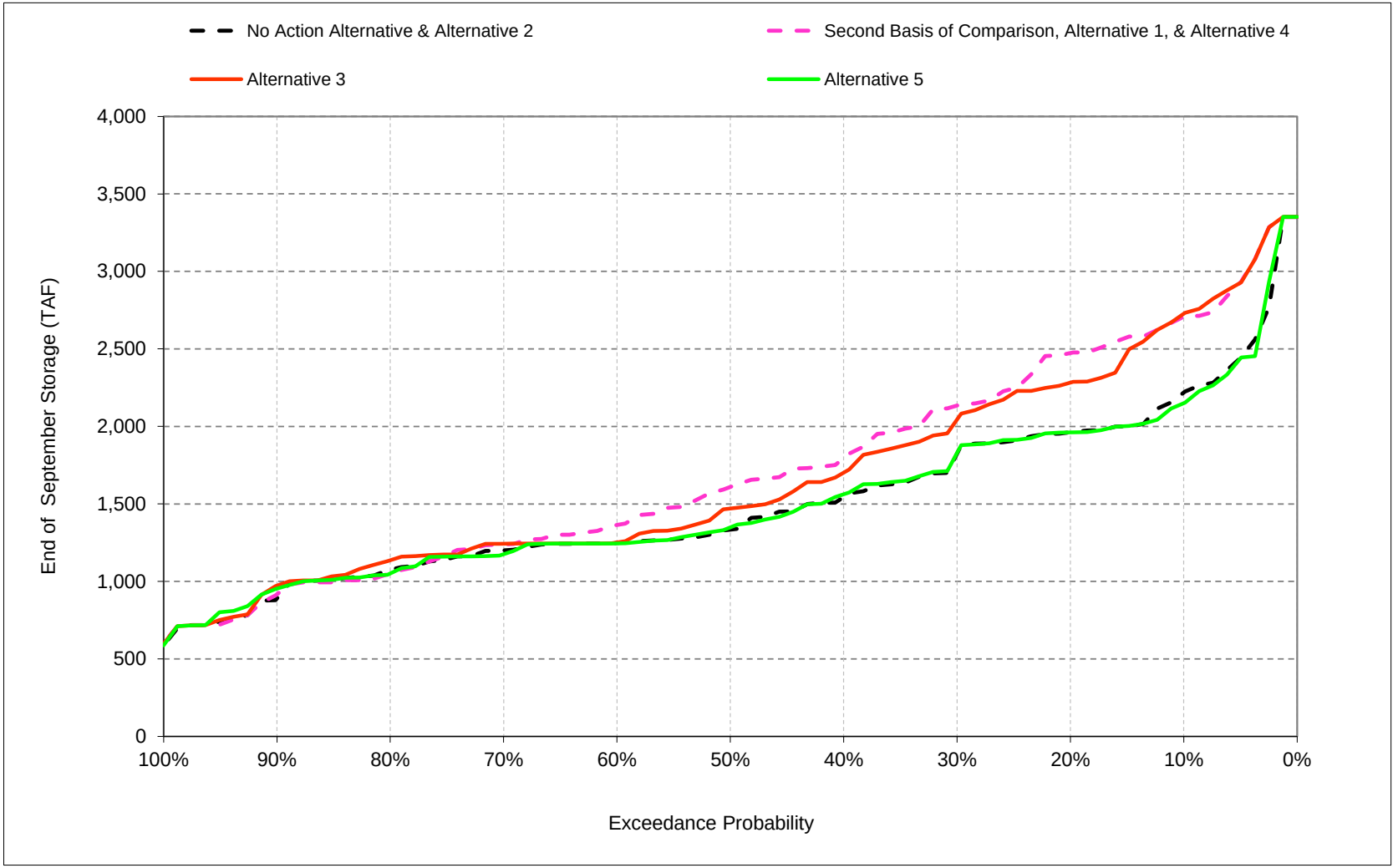
C.3. Oroville Storage

Figure C-3-1. Lake Oroville, End of May Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-3-2. Lake Oroville, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-3-1. Lake Oroville, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,052	2,115	2,719	2,788	2,918	3,035	3,352	3,538	3,538	3,037	2,759	2,218
20%	1,775	1,798	2,033	2,616	2,788	2,964	3,298	3,538	3,538	2,952	2,501	1,962
30%	1,617	1,660	1,802	2,290	2,788	2,898	3,268	3,475	3,361	2,747	2,311	1,824
40%	1,404	1,407	1,593	1,932	2,557	2,788	3,208	3,320	3,112	2,476	1,962	1,544
50%	1,248	1,246	1,394	1,693	2,170	2,639	2,925	3,019	2,833	2,203	1,729	1,334
60%	1,160	1,121	1,252	1,598	1,901	2,265	2,599	2,698	2,459	1,827	1,507	1,248
70%	1,094	1,014	1,097	1,305	1,673	2,034	2,219	2,310	2,002	1,460	1,257	1,201
80%	1,012	955	992	1,145	1,424	1,692	1,906	1,866	1,685	1,241	1,130	1,075
90%	910	894	898	1,007	1,241	1,491	1,668	1,522	1,259	1,102	986	890
Long Term												
Full Simulation Period[b]	1,400	1,393	1,568	1,832	2,147	2,388	2,654	2,751	2,602	2,120	1,819	1,513
Water Year Types[c]												
Wet (32%)	1,691	1,732	2,189	2,554	2,832	2,942	3,300	3,488	3,445	2,964	2,626	2,109
Above Normal (16%)	1,279	1,322	1,485	1,959	2,519	2,892	3,247	3,393	3,232	2,600	2,117	1,659
Below Normal (13%)	1,542	1,497	1,507	1,719	2,122	2,397	2,653	2,714	2,530	1,923	1,513	1,307
Dry (24%)	1,206	1,158	1,177	1,305	1,582	1,938	2,178	2,210	1,951	1,478	1,287	1,144
Critical (15%)	1,092	1,029	1,019	1,108	1,223	1,381	1,408	1,392	1,243	1,018	917	865

Alternative 1

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,616	2,550	2,788	2,807	2,948	3,052	3,352	3,538	3,538	3,037	2,854	2,707
20%	2,272	2,304	2,464	2,788	2,838	2,990	3,298	3,538	3,531	2,965	2,590	2,473
30%	1,937	2,035	2,166	2,556	2,788	2,937	3,268	3,474	3,285	2,772	2,415	2,135
40%	1,699	1,784	2,024	2,366	2,788	2,841	3,209	3,278	2,983	2,367	2,000	1,795
50%	1,429	1,445	1,715	2,187	2,579	2,788	3,067	3,028	2,658	2,145	1,795	1,609
60%	1,145	1,101	1,402	1,723	2,140	2,641	2,888	2,792	2,438	1,915	1,601	1,365
70%	1,037	1,001	1,079	1,306	1,871	2,230	2,527	2,480	2,064	1,754	1,422	1,239
80%	998	974	999	1,109	1,544	1,806	1,996	2,050	1,769	1,436	1,232	1,052
90%	913	877	889	1,003	1,200	1,472	1,563	1,575	1,325	1,133	995	917
Long Term												
Full Simulation Period[b]	1,588	1,585	1,742	1,978	2,258	2,474	2,735	2,796	2,571	2,160	1,897	1,725
Water Year Types[c]												
Wet (32%)	1,936	1,984	2,354	2,636	2,871	2,942	3,300	3,477	3,402	2,976	2,728	2,569
Above Normal (16%)	1,465	1,523	1,702	2,173	2,648	2,937	3,271	3,357	3,081	2,493	2,087	1,827
Below Normal (13%)	1,823	1,783	1,831	2,037	2,361	2,627	2,875	2,836	2,461	1,930	1,637	1,424
Dry (24%)	1,371	1,324	1,344	1,473	1,764	2,120	2,363	2,357	2,031	1,688	1,427	1,261
Critical (15%)	1,117	1,044	1,041	1,125	1,235	1,406	1,423	1,407	1,219	1,027	911	839

Alternative 1 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	564	435	69	19	30	17	**0**	0	0	**0**	96	489
20%	496	506	432	172	50	26	**0**	0	**-6**	13	88	511
30%	320	375	365	266	0	38	0	**-1**	**-76**	25	104	311
40%	295	377	430	434	231	53	1	**-42**	**-129**	**-108**	38	251
50%	180	200	321	494	408	149	142	9	**-175**	**-58**	66	275
60%	**-15**	**-20**	149	126	239	377	289	94	**-21**	87	94	116
70%	**-58**	**-12**	**-18**	1	198	196	308	170	62	294	165	39
80%	**-14**	19	7	**-36**	121	114	90	185	83	195	102	**-23**
90%	3	**-18**	**-9**	**-4**	**-41**	**-19**	**-105**	53	66	31	9	27
Long Term												
Full Simulation Period[b]	189	193	174	146	111	86	81	45	**-31**	40	78	213
Water Year Types[c]												
Wet (32%)	245	252	165	82	39	0	**0**	**-10**	**-43**	12	102	459
Above Normal (16%)	187	201	217	214	129	44	24	**-37**	**-150**	**-107**	**-29**	167
Below Normal (13%)	281	285	324	318	239	230	222	122	**-69**	7	125	117
Dry (24%)	165	165	167	168	182	182	185	147	80	210	140	117
Critical (15%)	25	15	22	17	12	25	16	15	**-25**	8	**-6**	**-26**

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 C-3-2. Lake Oroville, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,052	2,115	2,719	2,788	2,918	3,035	3,352	3,538	3,538	3,037	2,759	2,218
20%	1,775	1,798	2,033	2,616	2,788	2,964	3,298	3,538	3,538	2,952	2,501	1,962
30%	1,617	1,660	1,802	2,290	2,788	2,898	3,268	3,475	3,361	2,747	2,311	1,824
40%	1,404	1,407	1,593	1,932	2,557	2,788	3,208	3,320	3,112	2,476	1,962	1,544
50%	1,248	1,246	1,394	1,693	2,170	2,639	2,925	3,019	2,833	2,203	1,729	1,334
60%	1,160	1,121	1,252	1,598	1,901	2,265	2,599	2,698	2,459	1,827	1,507	1,248
70%	1,094	1,014	1,097	1,305	1,673	2,034	2,219	2,310	2,002	1,460	1,257	1,201
80%	1,012	955	992	1,145	1,424	1,692	1,906	1,866	1,685	1,241	1,130	1,075
90%	910	894	898	1,007	1,241	1,491	1,668	1,522	1,259	1,102	986	890
Long Term												
Full Simulation Period[b]	1,400	1,393	1,568	1,832	2,147	2,388	2,654	2,751	2,602	2,120	1,819	1,513
Water Year Types[c]												
Wet (32%)	1,691	1,732	2,189	2,554	2,832	2,942	3,300	3,488	3,445	2,964	2,626	2,109
Above Normal (16%)	1,279	1,322	1,485	1,959	2,519	2,892	3,247	3,393	3,232	2,600	2,117	1,659
Below Normal (13%)	1,542	1,497	1,507	1,719	2,122	2,397	2,653	2,714	2,530	1,923	1,513	1,307
Dry (24%)	1,206	1,158	1,177	1,305	1,582	1,938	2,178	2,210	1,951	1,478	1,287	1,144
Critical (15%)	1,092	1,029	1,019	1,108	1,223	1,381	1,408	1,392	1,243	1,018	917	865

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,639	2,548	2,788	2,807	2,943	3,052	3,352	3,538	3,538	3,046	2,791	2,727
20%	2,094	2,155	2,500	2,788	2,802	2,983	3,298	3,538	3,522	2,898	2,518	2,283
30%	1,905	1,889	2,078	2,450	2,788	2,938	3,268	3,454	3,177	2,562	2,273	2,045
40%	1,641	1,686	1,860	2,278	2,724	2,839	3,208	3,295	2,954	2,317	1,982	1,701
50%	1,264	1,293	1,647	2,109	2,565	2,788	3,081	3,061	2,744	2,106	1,708	1,470
60%	1,195	1,126	1,375	1,678	2,130	2,642	2,884	2,819	2,450	1,867	1,429	1,251
70%	1,103	1,056	1,110	1,356	1,827	2,179	2,527	2,549	2,185	1,605	1,309	1,244
80%	1,023	964	999	1,157	1,459	1,739	2,034	2,029	1,743	1,344	1,242	1,136
90%	918	905	907	1,016	1,239	1,461	1,663	1,666	1,294	1,167	1,050	974
Long Term												
Full Simulation Period[b]	1,560	1,554	1,717	1,961	2,248	2,472	2,733	2,798	2,580	2,108	1,823	1,674
Water Year Types[c]												
Wet (32%)	1,893	1,931	2,315	2,608	2,854	2,942	3,300	3,473	3,375	2,902	2,630	2,499
Above Normal (16%)	1,405	1,448	1,623	2,109	2,623	2,945	3,280	3,371	3,129	2,494	2,039	1,778
Below Normal (13%)	1,839	1,801	1,846	2,054	2,370	2,636	2,879	2,883	2,610	1,971	1,520	1,354
Dry (24%)	1,332	1,288	1,322	1,454	1,733	2,088	2,329	2,319	1,980	1,548	1,343	1,198
Critical (15%)	1,129	1,067	1,067	1,156	1,275	1,429	1,449	1,437	1,236	1,029	918	862

Alternative 3 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	587	433	69	19	24	17	0	0	0	9	32	508
20%	319	357	468	172	14	19	0	0	-15	-54	16	321
30%	289	228	277	160	0	39	0	-21	-184	-185	-38	221
40%	237	279	267	346	167	51	0	-25	-158	-158	20	157
50%	15	47	253	416	395	149	155	42	-89	-98	-21	136
60%	34	5	123	80	228	377	285	121	-8	40	-78	3
70%	8	42	12	51	154	145	308	239	183	145	51	43
80%	11	10	6	13	35	47	127	164	58	103	112	61
90%	8	11	10	9	-2	-30	-5	144	34	65	64	83
Long Term												
Full Simulation Period[b]	160	161	150	129	102	84	78	48	-22	-11	3	162
Water Year Types[c]												
Wet (32%)	201	199	126	54	23	0	0	-15	-70	-62	4	390
Above Normal (16%)	126	127	138	151	105	53	33	-22	-102	-106	-78	118
Below Normal (13%)	297	303	339	335	248	240	225	169	80	48	8	47
Dry (24%)	127	130	145	149	151	150	151	109	29	70	55	55
Critical (15%)	37	38	48	48	52	48	41	45	-8	10	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 C-3-3. Lake Oroville, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,052	2,115	2,719	2,788	2,918	3,035	3,352	3,538	3,538	3,037	2,759	2,218
20%	1,775	1,798	2,033	2,616	2,788	2,964	3,298	3,538	3,538	2,952	2,501	1,962
30%	1,617	1,660	1,802	2,290	2,788	2,898	3,268	3,475	3,361	2,747	2,311	1,824
40%	1,404	1,407	1,593	1,932	2,557	2,788	3,208	3,320	3,112	2,476	1,962	1,544
50%	1,248	1,246	1,394	1,693	2,170	2,639	2,925	3,019	2,833	2,203	1,729	1,334
60%	1,160	1,121	1,252	1,598	1,901	2,265	2,599	2,698	2,459	1,827	1,507	1,248
70%	1,094	1,014	1,097	1,305	1,673	2,034	2,219	2,310	2,002	1,460	1,257	1,201
80%	1,012	955	992	1,145	1,424	1,692	1,906	1,866	1,685	1,241	1,130	1,075
90%	910	894	898	1,007	1,241	1,491	1,668	1,522	1,259	1,102	986	890
Long Term												
Full Simulation Period[b]	1,400	1,393	1,568	1,832	2,147	2,388	2,654	2,751	2,602	2,120	1,819	1,513
Water Year Types[c]												
Wet (32%)	1,691	1,732	2,189	2,554	2,832	2,942	3,300	3,488	3,445	2,964	2,626	2,109
Above Normal (16%)	1,279	1,322	1,485	1,959	2,519	2,892	3,247	3,393	3,232	2,600	2,117	1,659
Below Normal (13%)	1,542	1,497	1,507	1,719	2,122	2,397	2,653	2,714	2,530	1,923	1,513	1,307
Dry (24%)	1,206	1,158	1,177	1,305	1,582	1,938	2,178	2,210	1,951	1,478	1,287	1,144
Critical (15%)	1,092	1,029	1,019	1,108	1,223	1,381	1,408	1,392	1,243	1,018	917	865

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,047	2,116	2,763	2,788	2,921	3,035	3,352	3,538	3,538	3,017	2,704	2,150
20%	1,778	1,801	2,036	2,655	2,788	2,964	3,298	3,538	3,538	2,951	2,508	1,961
30%	1,614	1,653	1,810	2,267	2,788	2,898	3,268	3,475	3,367	2,759	2,317	1,829
40%	1,402	1,371	1,559	1,931	2,557	2,788	3,208	3,336	3,132	2,493	2,005	1,562
50%	1,248	1,251	1,433	1,709	2,177	2,642	2,928	3,020	2,849	2,218	1,753	1,349
60%	1,170	1,145	1,252	1,595	1,940	2,279	2,607	2,720	2,516	1,870	1,438	1,245
70%	1,101	1,050	1,095	1,309	1,693	2,044	2,225	2,340	2,049	1,478	1,243	1,176
80%	1,011	974	1,004	1,166	1,440	1,710	1,910	1,894	1,717	1,241	1,135	1,051
90%	894	895	903	1,030	1,250	1,489	1,661	1,579	1,306	1,167	1,050	954
Long Term												
Full Simulation Period[b]	1,403	1,394	1,568	1,836	2,151	2,393	2,660	2,770	2,622	2,134	1,821	1,514
Water Year Types[c]												
Wet (32%)	1,681	1,723	2,179	2,556	2,833	2,942	3,300	3,488	3,447	2,961	2,613	2,103
Above Normal (16%)	1,275	1,310	1,471	1,948	2,512	2,892	3,247	3,401	3,241	2,608	2,125	1,668
Below Normal (13%)	1,552	1,507	1,517	1,728	2,132	2,406	2,663	2,746	2,569	1,959	1,521	1,305
Dry (24%)	1,223	1,173	1,190	1,319	1,595	1,952	2,193	2,255	1,992	1,502	1,295	1,150
Critical (15%)	1,102	1,037	1,025	1,114	1,229	1,383	1,415	1,411	1,266	1,045	929	873

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5	1	44	0	3	0	0	0	0	-20	-54	-68
20%	2	3	3	39	0	0	0	0	0	-1	6	-1
30%	-3	-8	8	-23	0	0	0	0	6	12	6	5
40%	-2	-36	-35	0	0	0	0	16	20	18	43	18
50%	0	5	39	16	7	3	2	1	16	15	24	14
60%	10	24	0	-2	39	15	7	22	58	42	-70	-4
70%	7	37	-3	4	21	10	6	30	47	18	-14	-24
80%	0	20	12	21	17	18	4	29	32	0	5	-24
90%	-16	0	5	23	9	-2	-7	57	47	64	64	64
Long Term												
Full Simulation Period[b]	3	1	0	4	5	5	6	19	21	15	2	2
Water Year Types[c]												
Wet (32%)	-10	-9	-10	1	1	0	0	0	2	-3	-13	-7
Above Normal (16%)	-3	-12	-14	-11	-7	0	0	8	9	8	8	9
Below Normal (13%)	10	10	10	9	10	10	10	32	39	36	8	-1
Dry (24%)	17	15	13	13	13	13	15	45	41	23	8	6
Critical (15%)	10	9	6	6	6	3	7	19	22	27	12	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 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 C-3-4. Lake Oroville, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,616	2,550	2,788	2,807	2,948	3,052	3,352	3,538	3,538	3,037	2,854	2,707
20%	2,272	2,304	2,464	2,788	2,838	2,990	3,298	3,538	3,531	2,965	2,590	2,473
30%	1,937	2,035	2,166	2,556	2,788	2,937	3,268	3,474	3,285	2,772	2,415	2,135
40%	1,699	1,784	2,024	2,366	2,788	2,841	3,209	3,278	2,983	2,367	2,000	1,795
50%	1,429	1,445	1,715	2,187	2,579	2,788	3,067	3,028	2,658	2,145	1,795	1,609
60%	1,145	1,101	1,402	1,723	2,140	2,641	2,888	2,792	2,438	1,915	1,601	1,365
70%	1,037	1,001	1,079	1,306	1,871	2,230	2,527	2,480	2,064	1,754	1,422	1,239
80%	998	974	999	1,109	1,544	1,806	1,996	2,050	1,769	1,436	1,232	1,052
90%	913	877	889	1,003	1,200	1,472	1,563	1,575	1,325	1,133	995	917
Long Term												
Full Simulation Period[b]	1,588	1,585	1,742	1,978	2,258	2,474	2,735	2,796	2,571	2,160	1,897	1,725
Water Year Types[c]												
Wet (32%)	1,936	1,984	2,354	2,636	2,871	2,942	3,300	3,477	3,402	2,976	2,728	2,569
Above Normal (16%)	1,465	1,523	1,702	2,173	2,648	2,937	3,271	3,357	3,081	2,493	2,087	1,827
Below Normal (13%)	1,823	1,783	1,831	2,037	2,361	2,627	2,875	2,836	2,461	1,930	1,637	1,424
Dry (24%)	1,371	1,324	1,344	1,473	1,764	2,120	2,363	2,357	2,031	1,688	1,427	1,261
Critical (15%)	1,117	1,044	1,041	1,125	1,235	1,406	1,423	1,407	1,219	1,027	911	839

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,052	2,115	2,719	2,788	2,918	3,035	3,352	3,538	3,538	3,037	2,759	2,218
20%	1,775	1,798	2,033	2,616	2,788	2,964	3,298	3,538	3,538	2,952	2,501	1,962
30%	1,617	1,660	1,802	2,290	2,788	2,898	3,268	3,475	3,361	2,747	2,311	1,824
40%	1,404	1,407	1,593	1,932	2,557	2,788	3,208	3,320	3,112	2,476	1,962	1,544
50%	1,248	1,246	1,394	1,693	2,170	2,639	2,925	3,019	2,833	2,203	1,729	1,334
60%	1,160	1,121	1,252	1,598	1,901	2,265	2,599	2,698	2,459	1,827	1,507	1,248
70%	1,094	1,014	1,097	1,305	1,673	2,034	2,219	2,310	2,002	1,460	1,257	1,201
80%	1,012	955	992	1,145	1,424	1,692	1,906	1,866	1,685	1,241	1,130	1,075
90%	910	894	898	1,007	1,241	1,491	1,668	1,522	1,259	1,102	986	890
Long Term												
Full Simulation Period[b]	1,400	1,393	1,568	1,832	2,147	2,388	2,654	2,751	2,602	2,120	1,819	1,513
Water Year Types[c]												
Wet (32%)	1,691	1,732	2,189	2,554	2,832	2,942	3,300	3,488	3,445	2,964	2,626	2,109
Above Normal (16%)	1,279	1,322	1,485	1,959	2,519	2,892	3,247	3,393	3,232	2,600	2,117	1,659
Below Normal (13%)	1,542	1,497	1,507	1,719	2,122	2,397	2,653	2,714	2,530	1,923	1,513	1,307
Dry (24%)	1,206	1,158	1,177	1,305	1,582	1,938	2,178	2,210	1,951	1,478	1,287	1,144
Critical (15%)	1,092	1,029	1,019	1,108	1,223	1,381	1,408	1,392	1,243	1,018	917	865

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-564	-435	-69	-19	-30	-17	0	0	0	0	-96	-489
20%	-496	-506	-432	-172	-50	-26	0	0	6	-13	-88	-511
30%	-320	-375	-365	-266	0	-38	0	1	76	-25	-104	-311
40%	-295	-377	-430	-434	-231	-53	-1	42	129	108	-38	-251
50%	-180	-200	-321	-494	-408	-149	-142	-9	175	58	-66	-275
60%	15	20	-149	-126	-239	-377	-289	-94	21	-87	-94	-116
70%	58	12	18	-1	-198	-196	-308	-170	-62	-294	-165	-39
80%	14	-19	-7	36	-121	-114	-90	-185	-83	-195	-102	23
90%	-3	18	9	4	41	19	105	-53	-66	-31	-9	-27
Long Term												
Full Simulation Period[b]	-189	-193	-174	-146	-111	-86	-81	-45	31	-40	-78	-213
Water Year Types[c]												
Wet (32%)	-245	-252	-165	-82	-39	0	0	10	43	-12	-102	-459
Above Normal (16%)	-187	-201	-217	-214	-129	-44	-24	37	150	107	29	-167
Below Normal (13%)	-281	-285	-324	-318	-239	-230	-222	-122	69	-7	-125	-117
Dry (24%)	-165	-165	-167	-168	-182	-182	-185	-147	-80	-210	-140	-117
Critical (15%)	-25	-15	-22	-17	-12	-25	-16	-15	25	-8	6	26

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 C-3-5. Lake Oroville, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,616	2,550	2,788	2,807	2,948	3,052	3,352	3,538	3,538	3,037	2,854	2,707
20%	2,272	2,304	2,464	2,788	2,838	2,990	3,298	3,538	3,531	2,965	2,590	2,473
30%	1,937	2,035	2,166	2,556	2,788	2,937	3,268	3,474	3,285	2,772	2,415	2,135
40%	1,699	1,784	2,024	2,366	2,788	2,841	3,209	3,278	2,983	2,367	2,000	1,795
50%	1,429	1,445	1,715	2,187	2,579	2,788	3,067	3,028	2,658	2,145	1,795	1,609
60%	1,145	1,101	1,402	1,723	2,140	2,641	2,888	2,792	2,438	1,915	1,601	1,365
70%	1,037	1,001	1,079	1,306	1,871	2,230	2,527	2,480	2,064	1,754	1,422	1,239
80%	998	974	999	1,109	1,544	1,806	1,996	2,050	1,769	1,436	1,232	1,052
90%	913	877	889	1,003	1,200	1,472	1,563	1,575	1,325	1,133	995	917
Long Term												
Full Simulation Period[b]	1,588	1,585	1,742	1,978	2,258	2,474	2,735	2,796	2,571	2,160	1,897	1,725
Water Year Types[c]												
Wet (32%)	1,936	1,984	2,354	2,636	2,871	2,942	3,300	3,477	3,402	2,976	2,728	2,569
Above Normal (16%)	1,465	1,523	1,702	2,173	2,648	2,937	3,271	3,357	3,081	2,493	2,087	1,827
Below Normal (13%)	1,823	1,783	1,831	2,037	2,361	2,627	2,875	2,836	2,461	1,930	1,637	1,424
Dry (24%)	1,371	1,324	1,344	1,473	1,764	2,120	2,363	2,357	2,031	1,688	1,427	1,261
Critical (15%)	1,117	1,044	1,041	1,125	1,235	1,406	1,423	1,407	1,219	1,027	911	839

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,639	2,548	2,788	2,807	2,943	3,052	3,352	3,538	3,538	3,046	2,791	2,727
20%	2,094	2,155	2,500	2,788	2,802	2,983	3,298	3,538	3,522	2,898	2,518	2,283
30%	1,905	1,889	2,078	2,450	2,788	2,938	3,268	3,454	3,177	2,562	2,273	2,045
40%	1,641	1,686	1,860	2,278	2,724	2,839	3,208	3,295	2,954	2,317	1,982	1,701
50%	1,264	1,293	1,647	2,109	2,565	2,788	3,081	3,061	2,744	2,106	1,708	1,470
60%	1,195	1,126	1,375	1,678	2,130	2,642	2,884	2,819	2,450	1,867	1,429	1,251
70%	1,103	1,056	1,110	1,356	1,827	2,179	2,527	2,549	2,185	1,605	1,309	1,244
80%	1,023	964	999	1,157	1,459	1,739	2,034	2,029	1,743	1,344	1,242	1,136
90%	918	905	907	1,016	1,239	1,461	1,663	1,666	1,294	1,167	1,050	974
Long Term												
Full Simulation Period[b]	1,560	1,554	1,717	1,961	2,248	2,472	2,733	2,798	2,580	2,108	1,823	1,674
Water Year Types[c]												
Wet (32%)	1,893	1,931	2,315	2,608	2,854	2,942	3,300	3,473	3,375	2,902	2,630	2,499
Above Normal (16%)	1,405	1,448	1,623	2,109	2,623	2,945	3,280	3,371	3,129	2,494	2,039	1,778
Below Normal (13%)	1,839	1,801	1,846	2,054	2,370	2,636	2,879	2,883	2,610	1,971	1,520	1,354
Dry (24%)	1,332	1,288	1,322	1,454	1,733	2,088	2,329	2,319	1,980	1,548	1,343	1,198
Critical (15%)	1,129	1,067	1,067	1,156	1,275	1,429	1,449	1,437	1,236	1,029	918	862

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	23	-2	0	0	-6	0	0	0	0	9	-64	20
20%	-178	-149	36	0	-35	-6	0	0	-9	-66	-72	-190
30%	-31	-147	-88	-107	0	1	0	-19	-108	-210	-142	-90
40%	-58	-98	-164	-88	-64	-3	-1	17	-29	-50	-19	-94
50%	-165	-152	-68	-78	-13	0	13	32	86	-39	-87	-139
60%	49	25	-27	-46	-10	0	-4	27	13	-47	-172	-113
70%	66	54	31	50	-44	-51	0	69	121	-149	-114	5
80%	25	-10	0	48	-86	-68	38	-21	-25	-92	10	84
90%	5	29	18	14	39	-11	100	91	-32	34	55	57
Long Term												
Full Simulation Period[b]	-29	-31	-25	-17	-10	-2	-3	2	9	-52	-74	-51
Water Year Types[c]												
Wet (32%)	-43	-53	-39	-28	-17	0	0	-5	-27	-73	-98	-70
Above Normal (16%)	-61	-75	-78	-64	-24	8	8	14	48	1	-49	-49
Below Normal (13%)	16	18	15	17	9	9	3	47	150	41	-117	-70
Dry (24%)	-38	-35	-22	-19	-31	-32	-34	-38	-51	-140	-84	-62
Critical (15%)	12	23	25	31	39	23	25	30	17	2	7	23

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 C-3-6. Lake Oroville, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,616	2,550	2,788	2,807	2,948	3,052	3,352	3,538	3,538	3,037	2,854	2,707
20%	2,272	2,304	2,464	2,788	2,838	2,990	3,298	3,538	3,531	2,965	2,590	2,473
30%	1,937	2,035	2,166	2,556	2,788	2,937	3,268	3,474	3,285	2,772	2,415	2,135
40%	1,699	1,784	2,024	2,366	2,788	2,841	3,209	3,278	2,983	2,367	2,000	1,795
50%	1,429	1,445	1,715	2,187	2,579	2,788	3,067	3,028	2,658	2,145	1,795	1,609
60%	1,145	1,101	1,402	1,723	2,140	2,641	2,888	2,792	2,438	1,915	1,601	1,365
70%	1,037	1,001	1,079	1,306	1,871	2,230	2,527	2,480	2,064	1,754	1,422	1,239
80%	998	974	999	1,109	1,544	1,806	1,996	2,050	1,769	1,436	1,232	1,052
90%	913	877	889	1,003	1,200	1,472	1,563	1,575	1,325	1,133	995	917
Long Term												
Full Simulation Period[b]	1,588	1,585	1,742	1,978	2,258	2,474	2,735	2,796	2,571	2,160	1,897	1,725
Water Year Types[c]												
Wet (32%)	1,936	1,984	2,354	2,636	2,871	2,942	3,300	3,477	3,402	2,976	2,728	2,569
Above Normal (16%)	1,465	1,523	1,702	2,173	2,648	2,937	3,271	3,357	3,081	2,493	2,087	1,827
Below Normal (13%)	1,823	1,783	1,831	2,037	2,361	2,627	2,875	2,836	2,461	1,930	1,637	1,424
Dry (24%)	1,371	1,324	1,344	1,473	1,764	2,120	2,363	2,357	2,031	1,688	1,427	1,261
Critical (15%)	1,117	1,044	1,041	1,125	1,235	1,406	1,423	1,407	1,219	1,027	911	839

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,047	2,116	2,763	2,788	2,921	3,035	3,352	3,538	3,538	3,017	2,704	2,150
20%	1,778	1,801	2,036	2,655	2,788	2,964	3,298	3,538	3,538	2,951	2,508	1,961
30%	1,614	1,653	1,810	2,267	2,788	2,898	3,268	3,475	3,367	2,759	2,317	1,829
40%	1,402	1,371	1,559	1,931	2,557	2,788	3,208	3,336	3,132	2,493	2,005	1,562
50%	1,248	1,251	1,433	1,709	2,177	2,642	2,928	3,020	2,849	2,218	1,753	1,349
60%	1,170	1,145	1,252	1,595	1,940	2,279	2,607	2,720	2,516	1,870	1,438	1,245
70%	1,101	1,050	1,095	1,309	1,693	2,044	2,225	2,340	2,049	1,478	1,243	1,176
80%	1,011	974	1,004	1,166	1,440	1,710	1,910	1,894	1,717	1,241	1,135	1,051
90%	894	895	903	1,030	1,250	1,489	1,661	1,579	1,306	1,167	1,050	954
Long Term												
Full Simulation Period[b]	1,403	1,394	1,568	1,836	2,151	2,393	2,660	2,770	2,622	2,134	1,821	1,514
Water Year Types[c]												
Wet (32%)	1,681	1,723	2,179	2,556	2,833	2,942	3,300	3,488	3,447	2,961	2,613	2,103
Above Normal (16%)	1,275	1,310	1,471	1,948	2,512	2,892	3,247	3,401	3,241	2,608	2,125	1,668
Below Normal (13%)	1,552	1,507	1,517	1,728	2,132	2,406	2,663	2,746	2,569	1,959	1,521	1,305
Dry (24%)	1,223	1,173	1,190	1,319	1,595	1,952	2,193	2,255	1,992	1,502	1,295	1,150
Critical (15%)	1,102	1,037	1,025	1,114	1,229	1,383	1,415	1,411	1,266	1,045	929	873

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-569	-434	-25	-19	-27	-17	0	0	0	-20	-150	-557
20%	-494	-503	-428	-133	-50	-26	0	0	6	-14	-82	-512
30%	-323	-383	-357	-289	0	-38	0	1	82	-14	-97	-306
40%	-297	-414	-465	-434	-230	-53	-1	58	149	126	5	-233
50%	-181	-194	-282	-478	-402	-146	-140	-8	191	73	-42	-261
60%	25	44	-149	-128	-200	-362	-281	-72	79	-45	-163	-120
70%	65	49	16	3	-177	-186	-303	-140	-15	-276	-180	-63
80%	14	0	5	57	-104	-97	-86	-156	-52	-195	-96	-2
90%	-19	18	14	27	50	17	98	4	-19	33	55	38
Long Term												
Full Simulation Period[b]	-186	-191	-174	-142	-106	-81	-75	-26	51	-25	-76	-211
Water Year Types[c]												
Wet (32%)	-255	-261	-175	-81	-38	0	0	10	45	-15	-115	-466
Above Normal (16%)	-190	-213	-231	-225	-136	-44	-24	44	159	115	37	-159
Below Normal (13%)	-271	-275	-314	-309	-228	-220	-212	-90	109	28	-116	-118
Dry (24%)	-148	-151	-153	-155	-169	-168	-170	-102	-39	-186	-132	-111
Critical (15%)	-15	-7	-17	-11	-7	-23	-8	4	47	19	18	34

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

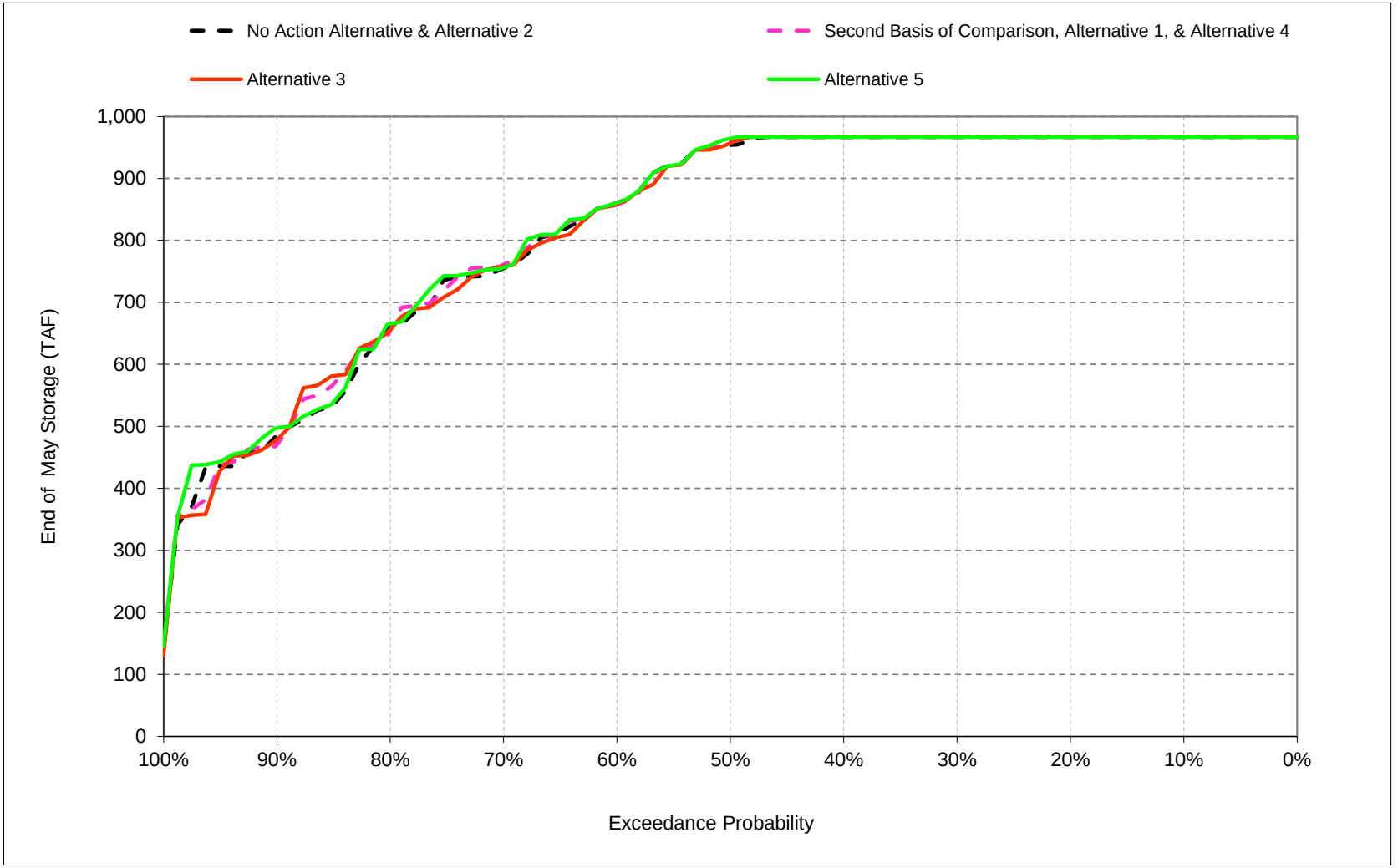
b Based on the 82-year simulation period.

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.

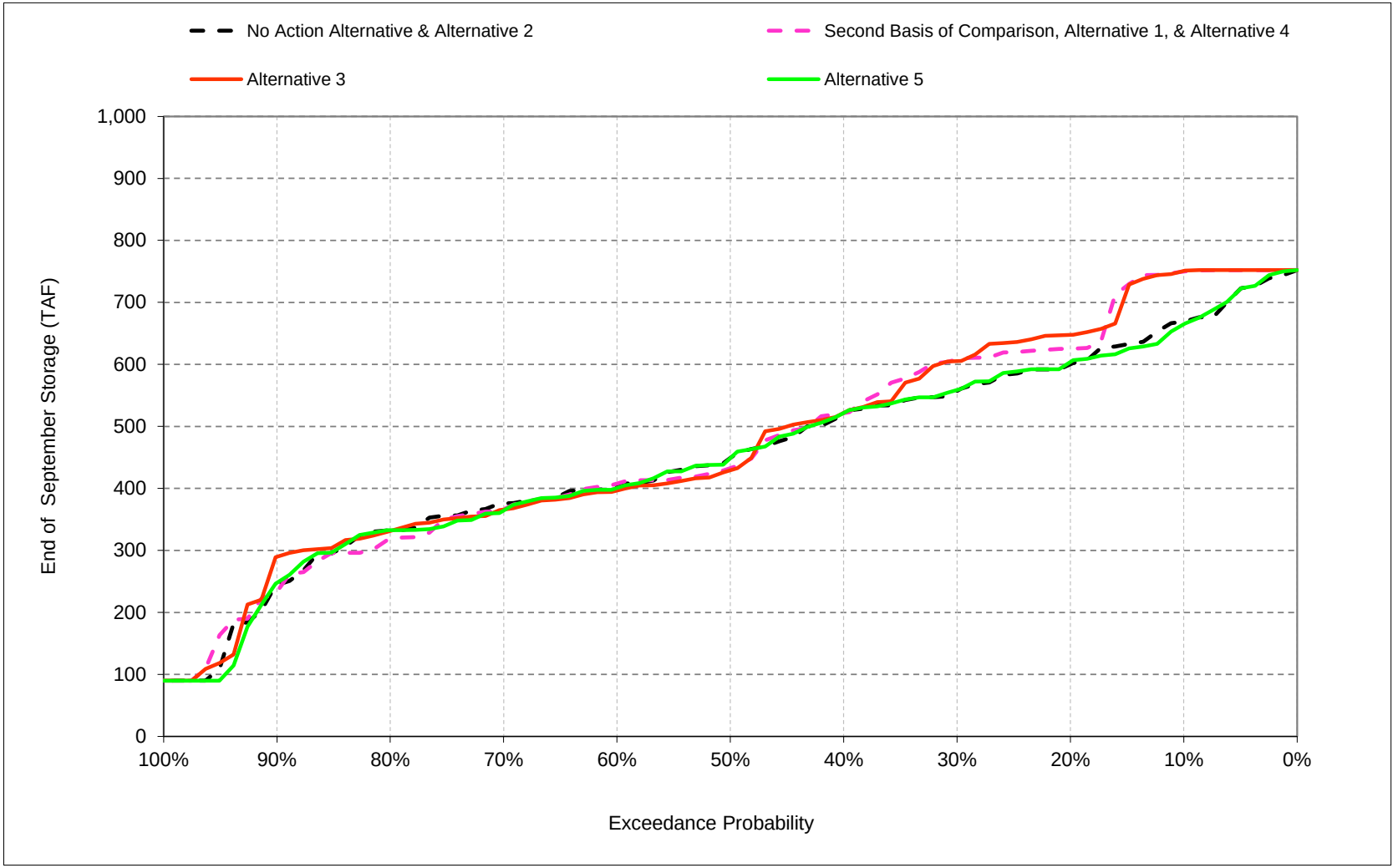
C.4. Folsom Storage

Figure C-4-1. Folsom Lake, End of May Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-4-2. Folsom Lake, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-4-1. Folsom Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	531	567	567	567	661	792	967	967	910	792	669
20%	538	493	567	565	566	656	792	967	967	828	732	600
30%	497	461	539	557	558	652	792	967	967	738	682	557
40%	451	426	498	540	553	646	792	967	933	664	607	521
50%	412	407	444	475	530	633	792	954	874	592	514	449
60%	354	392	416	444	496	621	790	861	761	521	455	402
70%	330	354	390	424	457	593	735	755	677	427	381	376
80%	296	307	349	365	415	542	630	661	549	380	357	332
90%	225	248	240	298	384	429	480	485	432	328	282	244
Long Term												
Full Simulation Period[b]	407	394	439	461	490	589	713	821	765	591	524	455
Water Year Types[c]												
Wet (32%)	454	435	514	518	515	632	785	951	941	800	712	576
Above Normal (16%)	377	380	429	513	531	640	787	946	887	621	552	477
Below Normal (13%)	446	431	467	484	533	619	757	843	780	527	472	453
Dry (24%)	394	383	408	423	479	579	691	760	658	495	443	419
Critical (15%)	324	305	315	320	366	432	475	486	415	327	267	231

Alternative 1

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	689	567	567	567	567	661	792	967	967	906	792	750
20%	582	561	567	567	567	657	792	967	967	817	684	625
30%	552	528	566	563	559	653	792	967	965	728	638	608
40%	469	499	525	556	555	646	792	967	908	641	569	522
50%	400	430	500	523	537	633	792	959	807	546	468	433
60%	351	391	456	470	498	621	790	858	745	504	442	408
70%	336	356	405	430	457	601	733	761	630	433	387	366
80%	291	333	352	388	437	563	634	654	544	371	325	318
90%	253	259	266	311	392	455	489	471	426	309	244	233
Long Term												
Full Simulation Period[b]	431	424	457	475	494	592	715	823	757	579	503	471
Water Year Types[c]												
Wet (32%)	483	470	522	524	515	632	785	951	937	793	688	646
Above Normal (16%)	390	412	467	537	538	640	787	946	857	591	522	485
Below Normal (13%)	506	489	502	514	541	626	761	847	739	475	408	387
Dry (24%)	405	399	423	437	486	585	698	769	664	486	432	408
Critical (15%)	339	317	323	325	369	436	469	482	430	352	288	258

Alternative 1 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	97	36	0	0	0	0	0	0	0	-4	0	81
20%	45	68	0	2	1	1	0	0	0	-11	-48	25
30%	55	67	27	6	1	2	0	0	-2	-10	-44	51
40%	18	73	26	15	2	0	0	0	-25	-23	-37	1
50%	-12	23	56	48	7	0	0	5	-67	-45	-46	-17
60%	-2	-1	40	26	2	0	0	-3	-16	-17	-13	6
70%	6	1	14	6	0	8	-2	6	-47	7	6	-9
80%	-4	27	3	22	22	21	4	-7	-5	-9	-32	-15
90%	27	11	26	13	8	26	10	-14	-6	-19	-39	-11
Long Term												
Full Simulation Period[b]	24	29	18	14	4	3	1	2	-8	-13	-21	16
Water Year Types[c]												
Wet (32%)	29	35	8	6	0	0	0	0	-4	-7	-25	70
Above Normal (16%)	13	33	38	24	7	0	0	-1	-30	-31	-30	8
Below Normal (13%)	59	58	35	30	8	7	4	4	-41	-52	-64	-66
Dry (24%)	12	16	15	14	7	6	7	9	5	-9	-11	-11
Critical (15%)	14	11	9	5	3	3	-6	-4	16	25	21	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 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 C-4-2. Folsom Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	531	567	567	567	661	792	967	967	910	792	669
20%	538	493	567	565	566	656	792	967	967	828	732	600
30%	497	461	539	557	558	652	792	967	967	738	682	557
40%	451	426	498	540	553	646	792	967	933	664	607	521
50%	412	407	444	475	530	633	792	954	874	592	514	449
60%	354	392	416	444	496	621	790	861	761	521	455	402
70%	330	354	390	424	457	593	735	755	677	427	381	376
80%	296	307	349	365	415	542	630	661	549	380	357	332
90%	225	248	240	298	384	429	480	485	432	328	282	244
Long Term												
Full Simulation Period[b]	407	394	439	461	490	589	713	821	765	591	524	455
Water Year Types[c]												
Wet (32%)	454	435	514	518	515	632	785	951	941	800	712	576
Above Normal (16%)	377	380	429	513	531	640	787	946	887	621	552	477
Below Normal (13%)	446	431	467	484	533	619	757	843	780	527	472	453
Dry (24%)	394	383	408	423	479	579	691	760	658	495	443	419
Critical (15%)	324	305	315	320	366	432	475	486	415	327	267	231

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	688	567	567	567	567	661	792	967	967	921	792	751
20%	592	563	567	567	567	656	792	967	967	814	709	648
30%	548	537	564	564	560	652	792	967	958	726	647	605
40%	483	495	523	556	556	646	792	967	899	636	567	522
50%	396	432	502	520	545	633	792	957	793	546	465	429
60%	348	387	450	469	499	621	790	859	749	485	434	397
70%	329	358	405	431	457	603	734	758	655	431	381	366
80%	304	329	342	389	438	563	649	656	547	392	346	331
90%	259	260	251	297	384	446	484	479	428	312	285	290
Long Term												
Full Simulation Period[b]	432	424	456	474	493	591	714	822	755	580	508	473
Water Year Types[c]												
Wet (32%)	486	473	525	524	515	632	785	951	929	790	690	645
Above Normal (16%)	388	404	454	537	539	640	787	946	851	580	516	479
Below Normal (13%)	513	496	505	514	542	627	764	844	766	506	436	407
Dry (24%)	405	398	420	434	482	580	692	761	654	491	436	411
Critical (15%)	331	314	322	325	370	436	474	485	431	343	291	257

Alternative 3 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	96	36	0	0	0	0	0	0	0	12	0	82
20%	54	70	0	2	1	0	0	0	0	-14	-23	48
30%	51	75	25	7	2	0	0	0	-9	-12	-35	48
40%	32	69	25	16	3	0	0	0	-34	-28	-40	1
50%	-16	25	58	45	16	0	0	3	-81	-45	-49	-20
60%	-6	-5	35	25	3	0	0	-2	-12	-36	-22	-6
70%	-1	4	14	7	0	9	-1	3	-22	5	1	-10
80%	8	22	-8	24	23	21	19	-5	-2	12	-10	-1
90%	33	12	11	-1	0	17	5	-6	-4	-15	2	45
Long Term												
Full Simulation Period[b]	25	29	17	13	4	2	1	0	-10	-11	-16	18
Water Year Types[c]												
Wet (32%)	33	38	11	6	0	0	0	0	-12	-10	-22	69
Above Normal (16%)	11	24	25	25	8	0	0	0	-36	-41	-36	2
Below Normal (13%)	67	64	38	30	9	8	6	1	-14	-21	-36	-45
Dry (24%)	11	15	12	11	3	1	1	1	-4	-4	-7	-8
Critical (15%)	7	8	8	5	3	3	-1	-1	16	16	25	27

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 C-4-3. Folsom Lake, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	531	567	567	567	661	792	967	967	910	792	669
20%	538	493	567	565	566	656	792	967	967	828	732	600
30%	497	461	539	557	558	652	792	967	967	738	682	557
40%	451	426	498	540	553	646	792	967	933	664	607	521
50%	412	407	444	475	530	633	792	954	874	592	514	449
60%	354	392	416	444	496	621	790	861	761	521	455	402
70%	330	354	390	424	457	593	735	755	677	427	381	376
80%	296	307	349	365	415	542	630	661	549	380	357	332
90%	225	248	240	298	384	429	480	485	432	328	282	244
Long Term												
Full Simulation Period[b]	407	394	439	461	490	589	713	821	765	591	524	455
Water Year Types[c]												
Wet (32%)	454	435	514	518	515	632	785	951	941	800	712	576
Above Normal (16%)	377	380	429	513	531	640	787	946	887	621	552	477
Below Normal (13%)	446	431	467	484	533	619	757	843	780	527	472	453
Dry (24%)	394	383	408	423	479	579	691	760	658	495	443	419
Critical (15%)	324	305	315	320	366	432	475	486	415	327	267	231

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	533	567	567	567	661	792	967	967	869	792	665
20%	538	489	567	565	566	656	792	967	967	818	733	604
30%	503	463	537	557	558	652	792	967	967	738	664	559
40%	455	429	503	541	553	646	792	967	933	665	608	521
50%	412	409	444	479	530	633	792	965	874	595	514	449
60%	353	392	417	448	496	621	790	861	773	524	460	401
70%	329	353	400	422	450	593	736	756	682	432	386	364
80%	294	314	350	370	412	542	626	665	552	383	349	333
90%	227	249	239	299	381	432	484	498	430	331	285	248
Long Term												
Full Simulation Period[b]	407	394	439	461	490	590	715	825	766	587	520	453
Water Year Types[c]												
Wet (32%)	454	435	515	518	515	632	785	952	941	794	710	577
Above Normal (16%)	375	379	428	513	532	640	787	946	888	622	554	478
Below Normal (13%)	440	425	461	483	534	620	758	845	783	523	469	450
Dry (24%)	397	386	411	426	479	579	691	766	664	489	435	410
Critical (15%)	325	304	314	320	367	433	483	499	411	324	257	231

Alternative 5 minus No Action Alternative

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

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	689	567	567	567	567	661	792	967	967	906	792	750
20%	582	561	567	567	567	657	792	967	967	817	684	625
30%	552	528	566	563	559	653	792	967	965	728	638	608
40%	469	499	525	556	555	646	792	967	908	641	569	522
50%	400	430	500	523	537	633	792	959	807	546	468	433
60%	351	391	456	470	498	621	790	858	745	504	442	408
70%	336	356	405	430	457	601	733	761	630	433	387	366
80%	291	333	352	388	437	563	634	654	544	371	325	318
90%	253	259	266	311	392	455	489	471	426	309	244	233
Long Term												
Full Simulation Period[b]	431	424	457	475	494	592	715	823	757	579	503	471
Water Year Types[c]												
Wet (32%)	483	470	522	524	515	632	785	951	937	793	688	646
Above Normal (16%)	390	412	467	537	538	640	787	946	857	591	522	485
Below Normal (13%)	506	489	502	514	541	626	761	847	739	475	408	387
Dry (24%)	405	399	423	437	486	585	698	769	664	486	432	408
Critical (15%)	339	317	323	325	369	436	469	482	430	352	288	258

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	531	567	567	567	661	792	967	967	910	792	669
20%	538	493	567	565	566	656	792	967	967	828	732	600
30%	497	461	539	557	558	652	792	967	967	738	682	557
40%	451	426	498	540	553	646	792	967	933	664	607	521
50%	412	407	444	475	530	633	792	954	874	592	514	449
60%	354	392	416	444	496	621	790	861	761	521	455	402
70%	330	354	390	424	457	593	735	755	677	427	381	376
80%	296	307	349	365	415	542	630	661	549	380	357	332
90%	225	248	240	298	384	429	480	485	432	328	282	244
Long Term												
Full Simulation Period[b]	407	394	439	461	490	589	713	821	765	591	524	455
Water Year Types[c]												
Wet (32%)	454	435	514	518	515	632	785	951	941	800	712	576
Above Normal (16%)	377	380	429	513	531	640	787	946	887	621	552	477
Below Normal (13%)	446	431	467	484	533	619	757	843	780	527	472	453
Dry (24%)	394	383	408	423	479	579	691	760	658	495	443	419
Critical (15%)	324	305	315	320	366	432	475	486	415	327	267	231

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-97	-36	0	0	0	0	0	0	0	4	0	-81
20%	-45	-68	0	-2	-1	-1	0	0	0	11	48	-25
30%	-55	-67	-27	-6	-1	-2	0	0	2	10	44	-51
40%	-18	-73	-26	-15	-2	0	0	0	25	23	37	-1
50%	12	-23	-56	-48	-7	0	0	-5	67	45	46	17
60%	2	1	-40	-26	-2	0	0	3	16	17	13	-6
70%	-6	-1	-14	-6	0	-8	2	-6	47	-7	-6	9
80%	4	-27	-3	-22	-22	-21	-4	7	5	9	32	15
90%	-27	-11	-26	-13	-8	-26	-10	14	6	19	39	11
Long Term												
Full Simulation Period[b]	-24	-29	-18	-14	-4	-3	-1	-2	8	13	21	-16
Water Year Types[c]												
Wet (32%)	-29	-35	-8	-6	0	0	0	0	4	7	25	-70
Above Normal (16%)	-13	-33	-38	-24	-7	0	0	1	30	31	30	-8
Below Normal (13%)	-59	-58	-35	-30	-8	-7	-4	-4	41	52	64	66
Dry (24%)	-12	-16	-15	-14	-7	-6	-7	-9	-5	9	11	11
Critical (15%)	-14	-11	-9	-5	-3	-3	6	4	-16	-25	-21	-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 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 C-4-5. Folsom Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	689	567	567	567	567	661	792	967	967	906	792	750
20%	582	561	567	567	567	657	792	967	967	817	684	625
30%	552	528	566	563	559	653	792	967	965	728	638	608
40%	469	499	525	556	555	646	792	967	908	641	569	522
50%	400	430	500	523	537	633	792	959	807	546	468	433
60%	351	391	456	470	498	621	790	858	745	504	442	408
70%	336	356	405	430	457	601	733	761	630	433	387	366
80%	291	333	352	388	437	563	634	654	544	371	325	318
90%	253	259	266	311	392	455	489	471	426	309	244	233
Long Term												
Full Simulation Period[b]	431	424	457	475	494	592	715	823	757	579	503	471
Water Year Types[c]												
Wet (32%)	483	470	522	524	515	632	785	951	937	793	688	646
Above Normal (16%)	390	412	467	537	538	640	787	946	857	591	522	485
Below Normal (13%)	506	489	502	514	541	626	761	847	739	475	408	387
Dry (24%)	405	399	423	437	486	585	698	769	664	486	432	408
Critical (15%)	339	317	323	325	369	436	469	482	430	352	288	258

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	688	567	567	567	567	661	792	967	967	921	792	751
20%	592	563	567	567	567	656	792	967	967	814	709	648
30%	548	537	564	564	560	652	792	967	958	726	647	605
40%	483	495	523	556	556	646	792	967	899	636	567	522
50%	396	432	502	520	545	633	792	957	793	546	465	429
60%	348	387	450	469	499	621	790	859	749	485	434	397
70%	329	358	405	431	457	603	734	758	655	431	381	366
80%	304	329	342	389	438	563	649	656	547	392	346	331
90%	259	260	251	297	384	446	484	479	428	312	285	290
Long Term												
Full Simulation Period[b]	432	424	456	474	493	591	714	822	755	580	508	473
Water Year Types[c]												
Wet (32%)	486	473	525	524	515	632	785	951	929	790	690	645
Above Normal (16%)	388	404	454	537	539	640	787	946	851	580	516	479
Below Normal (13%)	513	496	505	514	542	627	764	844	766	506	436	407
Dry (24%)	405	398	420	434	482	580	692	761	654	491	436	411
Critical (15%)	331	314	322	325	370	436	474	485	431	343	291	257

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1	0	0	0	0	0	0	0	0	15	0	1
20%	10	3	0	0	0	-1	0	0	0	-3	24	23
30%	-4	9	-2	1	1	-1	0	0	-7	-2	9	-3
40%	13	-4	-1	1	1	0	0	0	-10	-5	-3	0
50%	-3	3	2	-3	9	0	0	-2	-14	0	-3	-3
60%	-4	-4	-5	-1	1	0	0	1	4	-19	-9	-11
70%	-7	2	0	1	0	1	0	-3	25	-2	-6	0
80%	13	-4	-10	1	1	0	15	2	3	21	22	14
90%	6	1	-15	-14	-8	-9	-5	8	2	4	41	56
Long Term												
Full Simulation Period[b]	0	0	-2	-1	-1	-1	0	-2	-2	2	5	2
Water Year Types[c]												
Wet (32%)	3	4	3	0	0	0	0	0	-8	-3	2	-1
Above Normal (16%)	-3	-9	-13	1	1	0	0	0	-6	-10	-7	-6
Below Normal (13%)	8	6	3	0	1	1	3	-3	27	31	28	21
Dry (24%)	-1	-1	-3	-3	-4	-4	-6	-7	-9	5	4	3
Critical (15%)	-7	-3	-1	0	1	0	5	3	1	-9	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 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 C-4-6. Folsom Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	689	567	567	567	567	661	792	967	967	906	792	750
20%	582	561	567	567	567	657	792	967	967	817	684	625
30%	552	528	566	563	559	653	792	967	965	728	638	608
40%	469	499	525	556	555	646	792	967	908	641	569	522
50%	400	430	500	523	537	633	792	959	807	546	468	433
60%	351	391	456	470	498	621	790	858	745	504	442	408
70%	336	356	405	430	457	601	733	761	630	433	387	366
80%	291	333	352	388	437	563	634	654	544	371	325	318
90%	253	259	266	311	392	455	489	471	426	309	244	233
Long Term												
Full Simulation Period[b]	431	424	457	475	494	592	715	823	757	579	503	471
Water Year Types[c]												
Wet (32%)	483	470	522	524	515	632	785	951	937	793	688	646
Above Normal (16%)	390	412	467	537	538	640	787	946	857	591	522	485
Below Normal (13%)	506	489	502	514	541	626	761	847	739	475	408	387
Dry (24%)	405	399	423	437	486	585	698	769	664	486	432	408
Critical (15%)	339	317	323	325	369	436	469	482	430	352	288	258

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	592	533	567	567	567	661	792	967	967	869	792	665
20%	538	489	567	565	566	656	792	967	967	818	733	604
30%	503	463	537	557	558	652	792	967	967	738	664	559
40%	455	429	503	541	553	646	792	967	933	665	608	521
50%	412	409	444	479	530	633	792	965	874	595	514	449
60%	353	392	417	448	496	621	790	861	773	524	460	401
70%	329	353	400	422	450	593	736	756	682	432	386	364
80%	294	314	350	370	412	542	626	665	552	383	349	333
90%	227	249	239	299	381	432	484	498	430	331	285	248
Long Term												
Full Simulation Period[b]	407	394	439	461	490	590	715	825	766	587	520	453
Water Year Types[c]												
Wet (32%)	454	435	515	518	515	632	785	952	941	794	710	577
Above Normal (16%)	375	379	428	513	532	640	787	946	888	622	554	478
Below Normal (13%)	440	425	461	483	534	620	758	845	783	523	469	450
Dry (24%)	397	386	411	426	479	579	691	766	664	489	435	410
Critical (15%)	325	304	314	320	367	433	483	499	411	324	257	231

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-97	-34	0	0	0	0	0	0	0	-37	0	-85
20%	-44	-72	0	-2	-1	-1	0	0	0	1	49	-21
30%	-49	-65	-29	-6	-1	-2	0	0	2	10	26	-49
40%	-15	-70	-22	-15	-2	0	0	0	25	24	38	0
50%	13	-21	-56	-44	-7	0	0	5	67	49	46	16
60%	2	1	-39	-21	-2	0	0	3	27	20	18	-7
70%	-7	-3	-4	-8	-8	-8	3	-5	52	-1	-1	-2
80%	3	-19	-3	-18	-25	-21	-8	11	8	11	24	15
90%	-26	-10	-27	-13	-12	-23	-5	27	4	22	41	14
Long Term												
Full Simulation Period[b]	-25	-30	-18	-13	-4	-3	0	2	9	9	16	-18
Water Year Types[c]												
Wet (32%)	-29	-35	-8	-6	0	0	0	0	4	1	23	-69
Above Normal (16%)	-16	-34	-39	-24	-6	0	0	1	30	32	32	-7
Below Normal (13%)	-66	-65	-41	-31	-7	-7	-3	-2	44	49	60	63
Dry (24%)	-9	-13	-12	-12	-7	-5	-7	-3	0	4	3	2
Critical (15%)	-14	-12	-9	-5	-2	-3	14	17	-19	-28	-31	-27

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

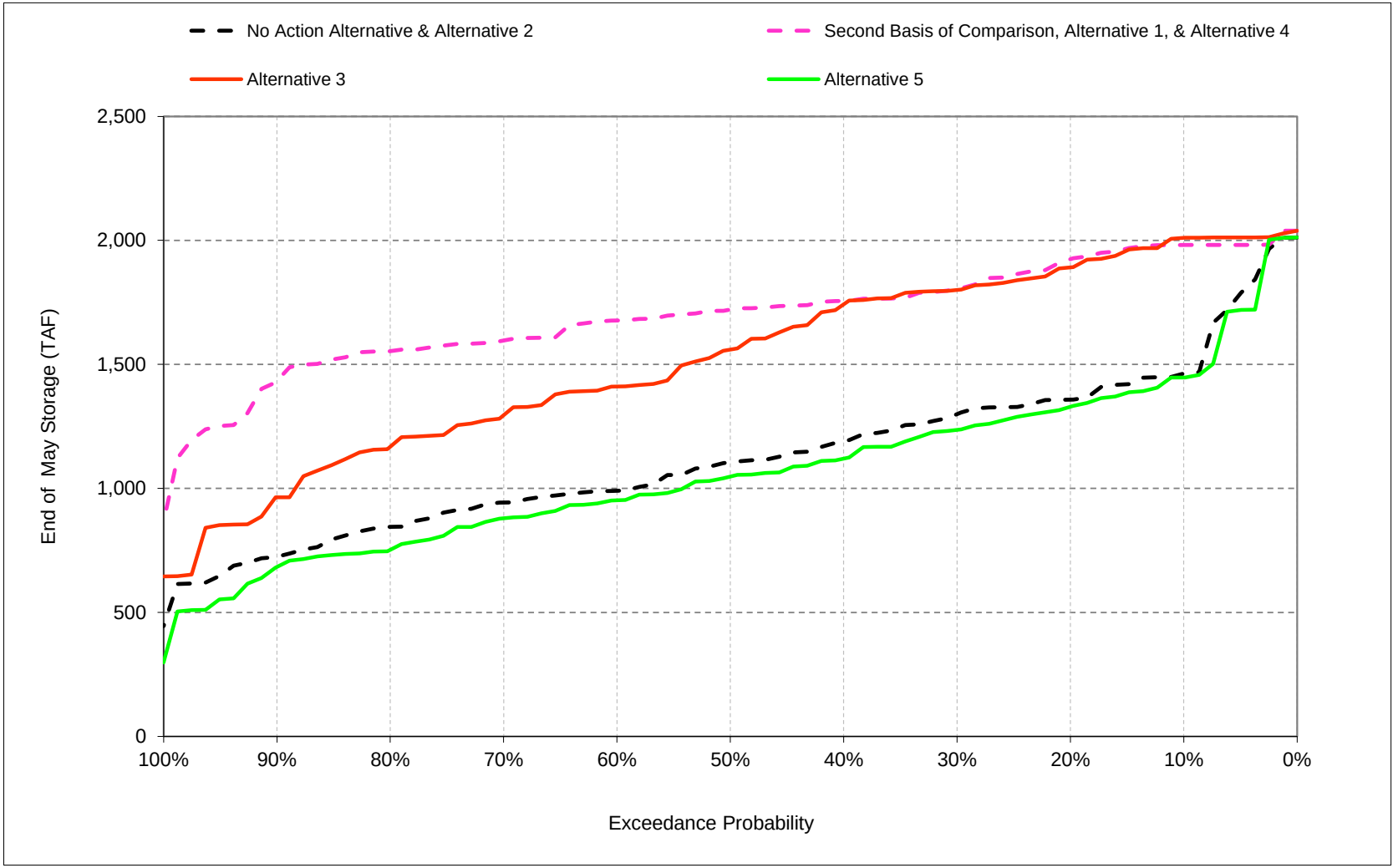
b Based on the 82-year simulation period.

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.

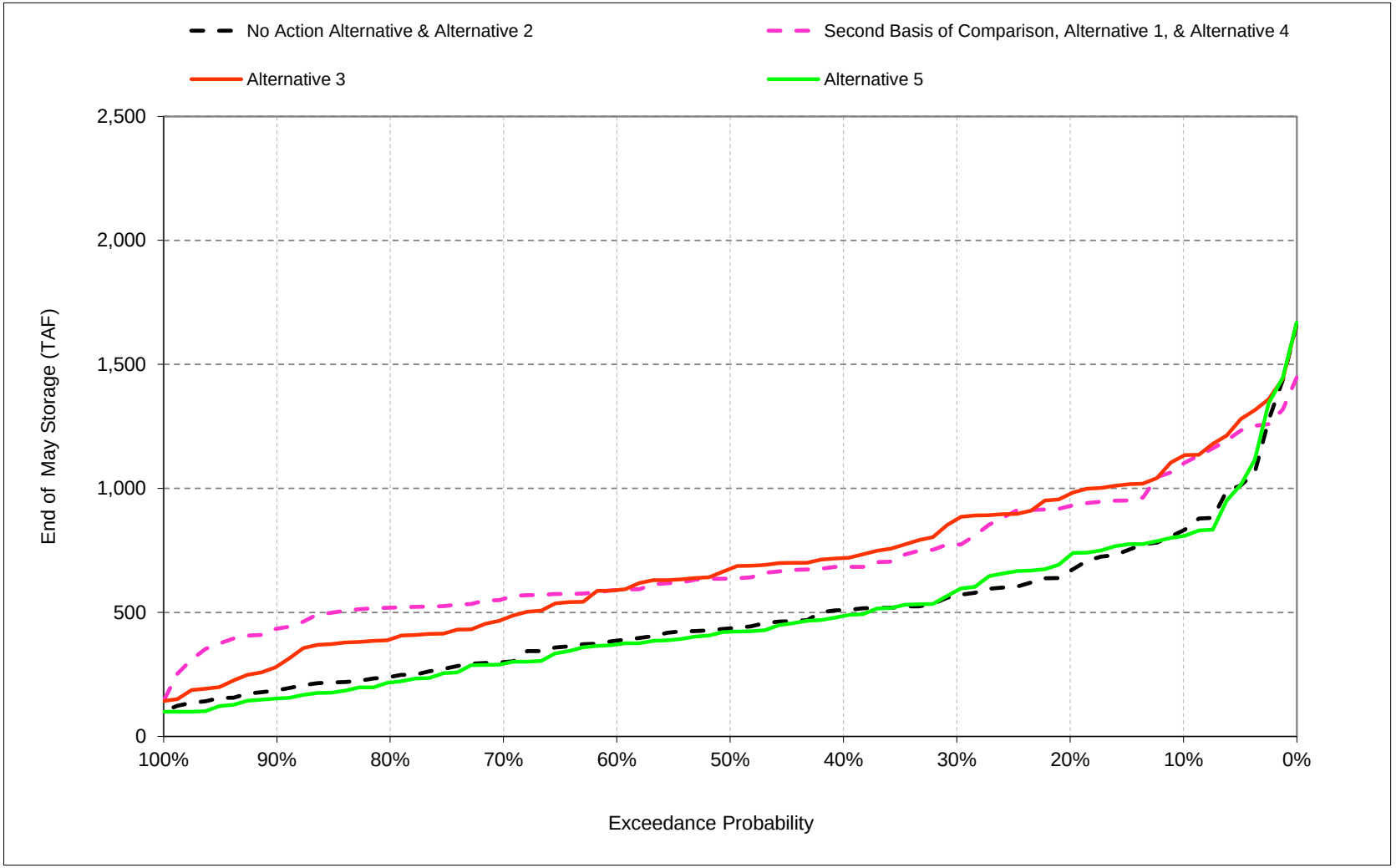
C.5. San Luis Storage

Figure C-5-1-1. San Luis Reservoir (SWP and CVP), End of May Storage



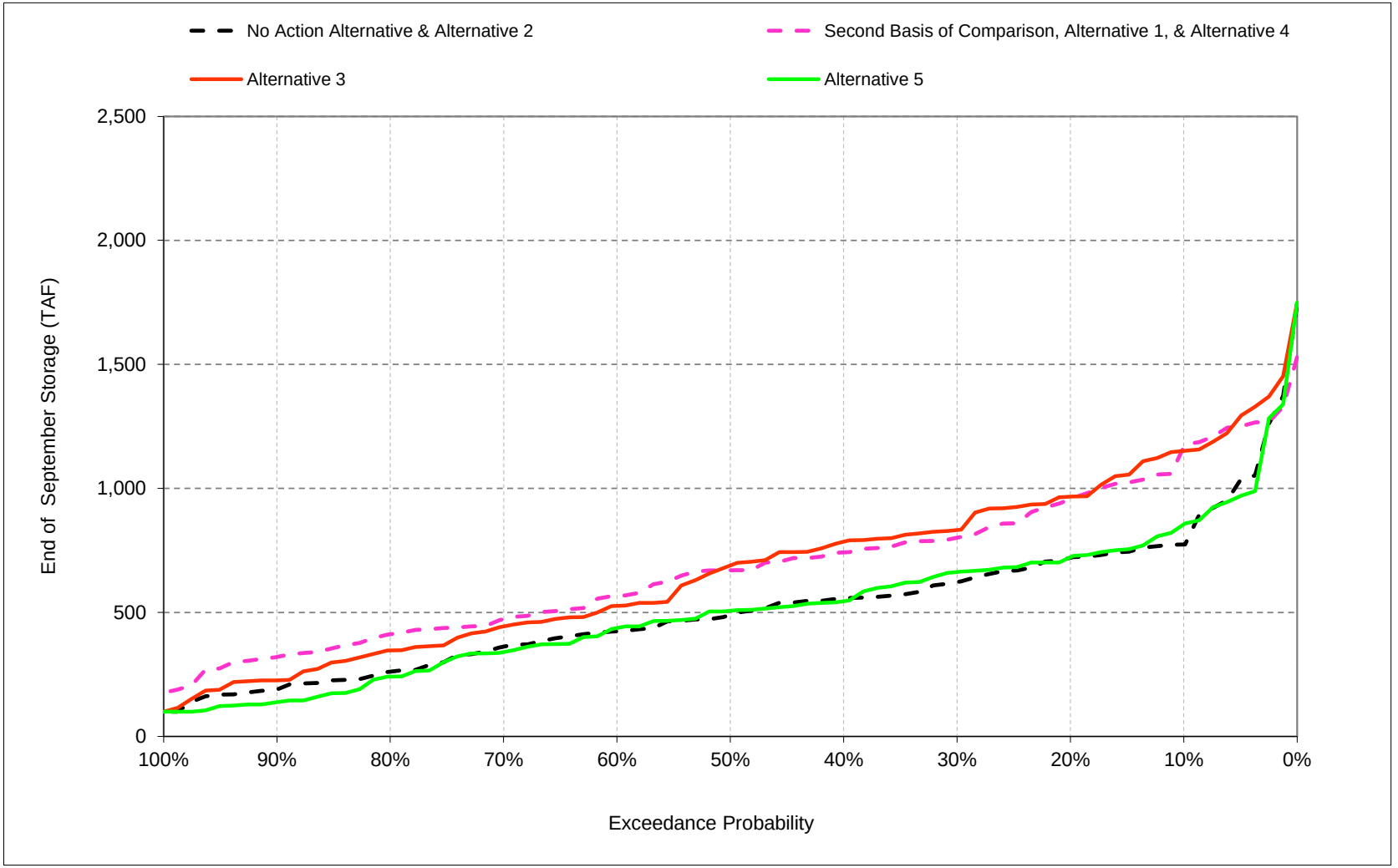
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-5-1-2. San Luis Reservoir (SWP and CVP), End of August Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-5-1-3. San Luis Reservoir (SWP and CVP), End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-5-1-1. San Luis Reservoir (SWP and CVP), 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%	868	1,032	1,320	1,726	2,029	2,039	1,835	1,463	1,167	970	831	774
20%	728	849	1,157	1,388	1,643	1,898	1,742	1,358	1,024	868	667	720
30%	563	739	1,076	1,328	1,582	1,801	1,620	1,300	915	780	568	623
40%	503	663	979	1,269	1,504	1,716	1,542	1,190	804	670	509	557
50%	471	580	817	1,140	1,410	1,622	1,457	1,106	714	561	436	491
60%	418	484	742	1,016	1,267	1,507	1,358	991	665	489	386	424
70%	334	422	698	969	1,154	1,314	1,218	943	606	435	299	362
80%	276	356	603	808	1,046	1,267	1,119	845	498	354	240	261
90%	206	298	463	751	941	1,087	1,021	724	378	303	186	190
Long Term												
Full Simulation Period[b]	510	628	890	1,171	1,391	1,575	1,431	1,128	793	642	491	521
Water Year Types[c]												
Wet (32%)	555	681	931	1,236	1,526	1,788	1,598	1,251	946	741	628	679
Above Normal (16%)	490	649	957	1,223	1,441	1,661	1,444	1,048	666	466	433	513
Below Normal (13%)	525	624	907	1,141	1,314	1,473	1,312	967	555	500	426	467
Dry (24%)	476	590	867	1,150	1,339	1,494	1,413	1,167	840	763	476	469
Critical (15%)	478	556	752	1,040	1,204	1,252	1,192	1,028	739	544	343	323

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%	1,176	1,436	1,728	2,026	2,039	2,039	2,039	1,981	1,738	1,367	1,100	1,166
20%	994	1,178	1,546	1,886	2,039	2,039	2,039	1,924	1,557	1,212	929	957
30%	864	1,071	1,412	1,838	2,036	2,039	2,039	1,804	1,476	1,128	774	801
40%	811	1,013	1,271	1,685	1,993	2,039	2,039	1,756	1,352	1,025	684	742
50%	715	889	1,152	1,616	1,938	2,039	2,023	1,721	1,302	942	637	670
60%	588	750	1,063	1,519	1,877	2,039	1,951	1,677	1,249	901	590	567
70%	461	659	971	1,467	1,805	1,972	1,880	1,596	1,209	852	554	473
80%	356	556	861	1,310	1,671	1,867	1,828	1,553	1,164	815	519	412
90%	268	363	660	1,175	1,508	1,718	1,741	1,433	1,066	751	435	321
Long Term												
Full Simulation Period[b]	711	895	1,180	1,585	1,831	1,941	1,910	1,697	1,338	1,000	705	687
Water Year Types[c]												
Wet (32%)	790	1,017	1,365	1,748	1,965	2,033	2,031	1,852	1,487	1,167	889	925
Above Normal (16%)	658	883	1,213	1,671	1,913	2,001	1,995	1,717	1,263	861	612	631
Below Normal (13%)	854	1,064	1,334	1,742	1,908	1,980	1,908	1,628	1,251	964	635	591
Dry (24%)	617	764	998	1,427	1,728	1,925	1,870	1,665	1,341	1,007	660	596
Critical (15%)	622	709	910	1,257	1,556	1,664	1,623	1,451	1,168	808	545	472

Alternative 1 minus 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%	308	404	408	300	10	0	204	519	571	397	269	392
20%	265	329	389	498	396	141	297	567	533	345	262	237
30%	301	332	335	510	454	238	419	505	561	348	206	178
40%	308	350	292	416	489	323	497	565	548	355	175	186
50%	244	310	334	476	528	417	566	616	589	382	201	179
60%	170	266	321	503	610	532	593	686	584	413	204	143
70%	127	237	273	497	651	658	663	653	603	418	255	111
80%	80	200	257	502	625	600	709	709	666	461	279	151
90%	62	65	196	424	567	632	720	709	688	449	249	131
Long Term												
Full Simulation Period[b]	200	267	290	414	440	365	479	569	545	358	214	166
Water Year Types[c]												
Wet (32%)	234	336	433	513	439	245	433	601	541	426	261	245
Above Normal (16%)	168	234	257	448	471	341	551	669	598	395	179	117
Below Normal (13%)	329	439	427	601	594	507	596	660	696	465	209	124
Dry (24%)	141	174	130	277	390	431	457	498	501	244	185	127
Critical (15%)	144	153	158	217	352	412	431	423	429	263	202	149

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 C-5-1-2. San Luis Reservoir (SWP and CVP), 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%	868	1,032	1,320	1,726	2,029	2,039	1,835	1,463	1,167	970	831	774
20%	728	849	1,157	1,388	1,643	1,898	1,742	1,358	1,024	868	667	720
30%	563	739	1,076	1,328	1,582	1,801	1,620	1,300	915	780	568	623
40%	503	663	979	1,269	1,504	1,716	1,542	1,190	804	670	509	557
50%	471	580	817	1,140	1,410	1,622	1,457	1,106	714	561	436	491
60%	418	484	742	1,016	1,267	1,507	1,358	991	665	489	386	424
70%	334	422	698	969	1,154	1,314	1,218	943	606	435	299	362
80%	276	356	603	808	1,046	1,267	1,119	845	498	354	240	261
90%	206	298	463	751	941	1,087	1,021	724	378	303	186	190
Long Term												
Full Simulation Period[b]	510	628	890	1,171	1,391	1,575	1,431	1,128	793	642	491	521
Water Year Types[c]												
Wet (32%)	555	681	931	1,236	1,526	1,788	1,598	1,251	946	741	628	679
Above Normal (16%)	490	649	957	1,223	1,441	1,661	1,444	1,048	666	466	433	513
Below Normal (13%)	525	624	907	1,141	1,314	1,473	1,312	967	555	500	426	467
Dry (24%)	476	590	867	1,150	1,339	1,494	1,413	1,167	840	763	476	469
Critical (15%)	478	556	752	1,040	1,204	1,252	1,192	1,028	739	544	343	323

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%	1,237	1,441	1,675	1,889	2,039	2,039	2,039	2,011	1,684	1,427	1,132	1,151
20%	985	1,234	1,446	1,710	1,955	2,039	2,036	1,891	1,541	1,256	978	967
30%	901	1,067	1,324	1,581	1,824	2,033	2,004	1,800	1,402	1,133	875	832
40%	801	981	1,253	1,488	1,697	1,903	1,961	1,742	1,331	986	720	785
50%	722	869	1,124	1,383	1,609	1,815	1,770	1,560	1,165	920	676	689
60%	537	765	1,025	1,313	1,501	1,702	1,670	1,411	1,040	806	590	527
70%	377	666	925	1,209	1,436	1,599	1,545	1,295	959	706	473	444
80%	317	491	775	1,066	1,277	1,409	1,397	1,168	837	591	391	347
90%	232	359	605	872	1,003	1,167	1,194	964	614	465	283	227
Long Term												
Full Simulation Period[b]	702	890	1,130	1,381	1,573	1,708	1,695	1,517	1,190	929	690	679
Water Year Types[c]												
Wet (32%)	810	1,033	1,276	1,555	1,810	1,957	1,975	1,851	1,540	1,228	961	980
Above Normal (16%)	619	844	1,109	1,342	1,571	1,756	1,763	1,575	1,155	830	674	703
Below Normal (13%)	834	1,043	1,305	1,489	1,623	1,736	1,651	1,338	899	737	585	561
Dry (24%)	634	804	1,052	1,302	1,455	1,608	1,593	1,413	1,128	926	590	535
Critical (15%)	548	632	804	1,076	1,216	1,256	1,227	1,069	838	572	380	351

Alternative 3 minus 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%	369	409	355	163	10	0	204	548	517	457	301	377
20%	257	384	289	323	312	141	294	534	518	388	311	246
30%	338	328	248	253	243	233	383	500	487	353	307	209
40%	297	318	274	219	193	187	419	552	527	316	210	229
50%	251	289	307	243	200	193	313	454	452	360	240	198
60%	119	281	284	297	234	195	312	420	375	317	204	102
70%	43	244	227	240	282	286	328	352	354	271	173	81
80%	41	135	172	258	231	142	278	323	339	237	151	86
90%	26	61	142	121	63	80	172	239	236	162	97	37
Long Term												
Full Simulation Period[b]	192	262	240	210	182	133	265	389	397	288	199	158
Water Year Types[c]												
Wet (32%)	255	351	345	320	284	170	377	599	593	487	334	300
Above Normal (16%)	130	194	153	119	129	95	319	526	489	363	241	190
Below Normal (13%)	309	419	399	348	309	263	339	371	344	237	160	94
Dry (24%)	158	214	185	152	117	114	180	246	288	163	114	66
Critical (15%)	70	76	53	37	12	4	35	40	99	28	38	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 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 C-5-1-3. San Luis Reservoir (SWP and CVP), 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%	868	1,032	1,320	1,726	2,029	2,039	1,835	1,463	1,167	970	831	774
20%	728	849	1,157	1,388	1,643	1,898	1,742	1,358	1,024	868	667	720
30%	563	739	1,076	1,328	1,582	1,801	1,620	1,300	915	780	568	623
40%	503	663	979	1,269	1,504	1,716	1,542	1,190	804	670	509	557
50%	471	580	817	1,140	1,410	1,622	1,457	1,106	714	561	436	491
60%	418	484	742	1,016	1,267	1,507	1,358	991	665	489	386	424
70%	334	422	698	969	1,154	1,314	1,218	943	606	435	299	362
80%	276	356	603	808	1,046	1,267	1,119	845	498	354	240	261
90%	206	298	463	751	941	1,087	1,021	724	378	303	186	190
Long Term												
Full Simulation Period[b]	510	628	890	1,171	1,391	1,575	1,431	1,128	793	642	491	521
Water Year Types[c]												
Wet (32%)	555	681	931	1,236	1,526	1,788	1,598	1,251	946	741	628	679
Above Normal (16%)	490	649	957	1,223	1,441	1,661	1,444	1,048	666	466	433	513
Below Normal (13%)	525	624	907	1,141	1,314	1,473	1,312	967	555	500	426	467
Dry (24%)	476	590	867	1,150	1,339	1,494	1,413	1,167	840	763	476	469
Critical (15%)	478	556	752	1,040	1,204	1,252	1,192	1,028	739	544	343	323

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%	835	982	1,306	1,593	2,000	2,039	1,821	1,448	1,216	972	808	855
20%	709	874	1,139	1,403	1,658	1,921	1,727	1,329	1,009	879	731	723
30%	610	740	1,046	1,334	1,596	1,824	1,609	1,236	875	755	588	663
40%	540	656	993	1,238	1,494	1,723	1,509	1,120	718	613	485	545
50%	487	589	880	1,137	1,399	1,614	1,416	1,048	689	544	422	507
60%	417	510	743	1,044	1,285	1,490	1,300	953	622	454	371	437
70%	314	423	705	975	1,175	1,382	1,203	880	523	400	293	341
80%	266	348	592	833	1,062	1,275	1,114	753	445	311	217	241
90%	192	260	455	759	932	1,045	926	684	356	269	153	138
Long Term												
Full Simulation Period[b]	508	620	886	1,167	1,390	1,575	1,404	1,069	745	611	483	516
Water Year Types[c]												
Wet (32%)	576	706	958	1,251	1,539	1,804	1,624	1,279	984	787	680	726
Above Normal (16%)	488	622	932	1,213	1,440	1,660	1,447	1,046	672	477	442	520
Below Normal (13%)	541	628	923	1,157	1,335	1,496	1,305	928	524	476	414	463
Dry (24%)	464	572	856	1,139	1,327	1,481	1,324	1,002	691	655	412	418
Critical (15%)	429	505	698	994	1,166	1,216	1,103	875	600	428	284	270

Alternative 5 minus 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%	-33	-50	-14	-133	-28	0	-14	-15	49	2	-23	80
20%	-19	25	-18	15	15	23	-15	-28	-15	11	64	3
30%	47	1	-30	6	14	24	-11	-64	-39	-25	20	40
40%	37	-6	13	-31	-10	7	-33	-70	-86	-57	-24	-11
50%	16	9	63	-2	-10	-8	-41	-58	-25	-17	-14	16
60%	-1	26	1	28	18	-16	-58	-38	-43	-35	-15	13
70%	-20	1	6	6	21	69	-15	-63	-83	-35	-6	-22
80%	-10	-8	-12	25	16	8	-5	-92	-53	-43	-23	-20
90%	-15	-38	-8	8	-9	-42	-95	-40	-22	-34	-33	-51
Long Term												
Full Simulation Period[b]	-2	-8	-4	-4	-2	0	-27	-59	-48	-30	-8	-5
Water Year Types[c]												
Wet (32%)	20	25	27	15	13	16	26	28	38	46	52	47
Above Normal (16%)	-2	-27	-24	-10	-2	-1	3	-2	6	10	8	7
Below Normal (13%)	16	4	16	17	21	23	-7	-39	-31	-24	-12	-4
Dry (24%)	-12	-18	-11	-11	-12	-13	-89	-165	-149	-107	-64	-51
Critical (15%)	-50	-51	-53	-46	-38	-36	-89	-154	-140	-116	-59	-53

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 C-5-1-4. San Luis Reservoir (SWP and CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,176	1,436	1,728	2,026	2,039	2,039	2,039	1,981	1,738	1,367	1,100	1,166
20%	994	1,178	1,546	1,886	2,039	2,039	2,039	1,924	1,557	1,212	929	957
30%	864	1,071	1,412	1,838	2,036	2,039	2,039	1,804	1,476	1,128	774	801
40%	811	1,013	1,271	1,685	1,993	2,039	2,039	1,756	1,352	1,025	684	742
50%	715	889	1,152	1,616	1,938	2,039	2,023	1,721	1,302	942	637	670
60%	588	750	1,063	1,519	1,877	2,039	1,951	1,677	1,249	901	590	567
70%	461	659	971	1,467	1,805	1,972	1,880	1,596	1,209	852	554	473
80%	356	556	861	1,310	1,671	1,867	1,828	1,553	1,164	815	519	412
90%	268	363	660	1,175	1,508	1,718	1,741	1,433	1,066	751	435	321
Long Term												
Full Simulation Period[b]	711	895	1,180	1,585	1,831	1,941	1,910	1,697	1,338	1,000	705	687
Water Year Types[c]												
Wet (32%)	790	1,017	1,365	1,748	1,965	2,033	2,031	1,852	1,487	1,167	889	925
Above Normal (16%)	658	883	1,213	1,671	1,913	2,001	1,995	1,717	1,263	861	612	631
Below Normal (13%)	854	1,064	1,334	1,742	1,908	1,980	1,908	1,628	1,251	964	635	591
Dry (24%)	617	764	998	1,427	1,728	1,925	1,870	1,665	1,341	1,007	660	596
Critical (15%)	622	709	910	1,257	1,556	1,664	1,623	1,451	1,168	808	545	472

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	868	1,032	1,320	1,726	2,029	2,039	1,835	1,463	1,167	970	831	774
20%	728	849	1,157	1,388	1,643	1,898	1,742	1,358	1,024	868	667	720
30%	563	739	1,076	1,328	1,582	1,801	1,620	1,300	915	780	568	623
40%	503	663	979	1,269	1,504	1,716	1,542	1,190	804	670	509	557
50%	471	580	817	1,140	1,410	1,622	1,457	1,106	714	561	436	491
60%	418	484	742	1,016	1,267	1,507	1,358	991	665	489	386	424
70%	334	422	698	969	1,154	1,314	1,218	943	606	435	299	362
80%	276	356	603	808	1,046	1,267	1,119	845	498	354	240	261
90%	206	298	463	751	941	1,087	1,021	724	378	303	186	190
Long Term												
Full Simulation Period[b]	510	628	890	1,171	1,391	1,575	1,431	1,128	793	642	491	521
Water Year Types[c]												
Wet (32%)	555	681	931	1,236	1,526	1,788	1,598	1,251	946	741	628	679
Above Normal (16%)	490	649	957	1,223	1,441	1,661	1,444	1,048	666	466	433	513
Below Normal (13%)	525	624	907	1,141	1,314	1,473	1,312	967	555	500	426	467
Dry (24%)	476	590	867	1,150	1,339	1,494	1,413	1,167	840	763	476	469
Critical (15%)	478	556	752	1,040	1,204	1,252	1,192	1,028	739	544	343	323

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-308	-404	-408	-300	-10	0	-204	-519	-571	-397	-269	-392
20%	-265	-329	-389	-498	-396	-141	-297	-567	-533	-345	-262	-237
30%	-301	-332	-335	-510	-454	-238	-419	-505	-561	-348	-206	-178
40%	-308	-350	-292	-416	-489	-323	-497	-565	-548	-355	-175	-186
50%	-244	-310	-334	-476	-528	-417	-566	-616	-589	-382	-201	-179
60%	-170	-266	-321	-503	-610	-532	-593	-686	-584	-413	-204	-143
70%	-127	-237	-273	-497	-651	-658	-663	-653	-603	-418	-255	-111
80%	-80	-200	-257	-502	-625	-600	-709	-709	-666	-461	-279	-151
90%	-62	-65	-196	-424	-567	-632	-720	-709	-688	-449	-249	-131
Long Term												
Full Simulation Period[b]	-200	-267	-290	-414	-440	-365	-479	-569	-545	-358	-214	-166
Water Year Types[c]												
Wet (32%)	-234	-336	-433	-513	-439	-245	-433	-601	-541	-426	-261	-245
Above Normal (16%)	-168	-234	-257	-448	-471	-341	-551	-669	-598	-395	-179	-117
Below Normal (13%)	-329	-439	-427	-601	-594	-507	-596	-660	-696	-465	-209	-124
Dry (24%)	-141	-174	-130	-277	-390	-431	-457	-498	-501	-244	-185	-127
Critical (15%)	-144	-153	-158	-217	-352	-412	-431	-423	-429	-263	-202	-149

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 C-5-1-5. San Luis Reservoir (SWP and CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,176	1,436	1,728	2,026	2,039	2,039	2,039	1,981	1,738	1,367	1,100	1,166
20%	994	1,178	1,546	1,886	2,039	2,039	2,039	1,924	1,557	1,212	929	957
30%	864	1,071	1,412	1,838	2,036	2,039	2,039	1,804	1,476	1,128	774	801
40%	811	1,013	1,271	1,685	1,993	2,039	2,039	1,756	1,352	1,025	684	742
50%	715	889	1,152	1,616	1,938	2,039	2,023	1,721	1,302	942	637	670
60%	588	750	1,063	1,519	1,877	2,039	1,951	1,677	1,249	901	590	567
70%	461	659	971	1,467	1,805	1,972	1,880	1,596	1,209	852	554	473
80%	356	556	861	1,310	1,671	1,867	1,828	1,553	1,164	815	519	412
90%	268	363	660	1,175	1,508	1,718	1,741	1,433	1,066	751	435	321
Long Term												
Full Simulation Period[b]	711	895	1,180	1,585	1,831	1,941	1,910	1,697	1,338	1,000	705	687
Water Year Types[c]												
Wet (32%)	790	1,017	1,365	1,748	1,965	2,033	2,031	1,852	1,487	1,167	889	925
Above Normal (16%)	658	883	1,213	1,671	1,913	2,001	1,995	1,717	1,263	861	612	631
Below Normal (13%)	854	1,064	1,334	1,742	1,908	1,980	1,908	1,628	1,251	964	635	591
Dry (24%)	617	764	998	1,427	1,728	1,925	1,870	1,665	1,341	1,007	660	596
Critical (15%)	622	709	910	1,257	1,556	1,664	1,623	1,451	1,168	808	545	472

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,237	1,441	1,675	1,889	2,039	2,039	2,039	2,011	1,684	1,427	1,132	1,151
20%	985	1,234	1,446	1,710	1,955	2,039	2,036	1,891	1,541	1,256	978	967
30%	901	1,067	1,324	1,581	1,824	2,033	2,004	1,800	1,402	1,133	875	832
40%	801	981	1,253	1,488	1,697	1,903	1,961	1,742	1,331	986	720	785
50%	722	869	1,124	1,383	1,609	1,815	1,770	1,560	1,165	920	676	689
60%	537	765	1,025	1,313	1,501	1,702	1,670	1,411	1,040	806	590	527
70%	377	666	925	1,209	1,436	1,599	1,545	1,295	959	706	473	444
80%	317	491	775	1,066	1,277	1,409	1,397	1,168	837	591	391	347
90%	232	359	605	872	1,003	1,167	1,194	964	614	465	283	227
Long Term												
Full Simulation Period[b]	702	890	1,130	1,381	1,573	1,708	1,695	1,517	1,190	929	690	679
Water Year Types[c]												
Wet (32%)	810	1,033	1,276	1,555	1,810	1,957	1,975	1,851	1,540	1,228	961	980
Above Normal (16%)	619	844	1,109	1,342	1,571	1,756	1,763	1,575	1,155	830	674	703
Below Normal (13%)	834	1,043	1,305	1,489	1,623	1,736	1,651	1,338	899	737	585	561
Dry (24%)	634	804	1,052	1,302	1,455	1,608	1,593	1,413	1,128	926	590	535
Critical (15%)	548	632	804	1,076	1,216	1,256	1,227	1,069	838	572	380	351

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	61	5	-53	-137	0	0	0	29	-54	60	32	-15
20%	-9	56	-100	-176	-84	0	-3	-33	-15	43	48	9
30%	37	-4	-88	-257	-212	-6	-35	-4	-74	5	102	31
40%	-11	-32	-18	-197	-296	-136	-78	-14	-21	-39	36	43
50%	7	-20	-27	-232	-329	-224	-253	-162	-137	-22	39	19
60%	-50	16	-38	-206	-376	-337	-281	-266	-209	-95	0	-40
70%	-84	7	-46	-257	-369	-373	-335	-301	-250	-146	-82	-30
80%	-39	-65	-85	-245	-394	-459	-431	-385	-327	-225	-128	-65
90%	-36	-5	-55	-302	-504	-552	-548	-469	-452	-286	-152	-94
Long Term												
Full Simulation Period[b]	-9	-6	-50	-204	-258	-233	-215	-180	-148	-70	-15	-8
Water Year Types[c]												
Wet (32%)	21	16	-88	-193	-155	-76	-56	-2	53	61	72	55
Above Normal (16%)	-38	-40	-104	-329	-342	-245	-233	-143	-108	-32	63	73
Below Normal (13%)	-20	-20	-29	-253	-285	-244	-257	-290	-352	-227	-50	-30
Dry (24%)	17	40	55	-125	-273	-317	-277	-252	-214	-81	-70	-61
Critical (15%)	-74	-77	-106	-180	-340	-408	-396	-383	-330	-235	-164	-121

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 C-5-1-6. San Luis Reservoir (SWP and CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,176	1,436	1,728	2,026	2,039	2,039	2,039	1,981	1,738	1,367	1,100	1,166
20%	994	1,178	1,546	1,886	2,039	2,039	2,039	1,924	1,557	1,212	929	957
30%	864	1,071	1,412	1,838	2,036	2,039	2,039	1,804	1,476	1,128	774	801
40%	811	1,013	1,271	1,685	1,993	2,039	2,039	1,756	1,352	1,025	684	742
50%	715	889	1,152	1,616	1,938	2,039	2,023	1,721	1,302	942	637	670
60%	588	750	1,063	1,519	1,877	2,039	1,951	1,677	1,249	901	590	567
70%	461	659	971	1,467	1,805	1,972	1,880	1,596	1,209	852	554	473
80%	356	556	861	1,310	1,671	1,867	1,828	1,553	1,164	815	519	412
90%	268	363	660	1,175	1,508	1,718	1,741	1,433	1,066	751	435	321
Long Term												
Full Simulation Period[b]	711	895	1,180	1,585	1,831	1,941	1,910	1,697	1,338	1,000	705	687
Water Year Types[c]												
Wet (32%)	790	1,017	1,365	1,748	1,965	2,033	2,031	1,852	1,487	1,167	889	925
Above Normal (16%)	658	883	1,213	1,671	1,913	2,001	1,995	1,717	1,263	861	612	631
Below Normal (13%)	854	1,064	1,334	1,742	1,908	1,980	1,908	1,628	1,251	964	635	591
Dry (24%)	617	764	998	1,427	1,728	1,925	1,870	1,665	1,341	1,007	660	596
Critical (15%)	622	709	910	1,257	1,556	1,664	1,623	1,451	1,168	808	545	472

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	835	982	1,306	1,593	2,000	2,039	1,821	1,448	1,216	972	808	855
20%	709	874	1,139	1,403	1,658	1,921	1,727	1,329	1,009	879	731	723
30%	610	740	1,046	1,334	1,596	1,824	1,609	1,236	875	755	588	663
40%	540	656	993	1,238	1,494	1,723	1,509	1,120	718	613	485	545
50%	487	589	880	1,137	1,399	1,614	1,416	1,048	689	544	422	507
60%	417	510	743	1,044	1,285	1,490	1,300	953	622	454	371	437
70%	314	423	705	975	1,175	1,382	1,203	880	523	400	293	341
80%	266	348	592	833	1,062	1,275	1,114	753	445	311	217	241
90%	192	260	455	759	932	1,045	926	684	356	269	153	138
Long Term												
Full Simulation Period[b]	508	620	886	1,167	1,390	1,575	1,404	1,069	745	611	483	516
Water Year Types[c]												
Wet (32%)	576	706	958	1,251	1,539	1,804	1,624	1,279	984	787	680	726
Above Normal (16%)	488	622	932	1,213	1,440	1,660	1,447	1,046	672	477	442	520
Below Normal (13%)	541	628	923	1,157	1,335	1,496	1,305	928	524	476	414	463
Dry (24%)	464	572	856	1,139	1,327	1,481	1,324	1,002	691	655	412	418
Critical (15%)	429	505	698	994	1,166	1,216	1,103	875	600	428	284	270

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-341	-454	-423	-434	-39	0	-218	-534	-522	-395	-292	-312
20%	-285	-304	-407	-483	-381	-118	-312	-595	-548	-334	-199	-235
30%	-254	-331	-366	-503	-440	-215	-430	-568	-601	-372	-186	-138
40%	-271	-356	-278	-447	-499	-316	-530	-636	-634	-412	-199	-197
50%	-229	-300	-272	-478	-539	-425	-607	-674	-613	-398	-214	-163
60%	-170	-240	-320	-475	-592	-549	-651	-724	-627	-448	-219	-130
70%	-147	-236	-266	-491	-631	-589	-677	-716	-686	-452	-261	-133
80%	-90	-208	-269	-478	-609	-593	-714	-801	-719	-504	-302	-171
90%	-76	-104	-204	-416	-576	-674	-815	-749	-710	-483	-282	-183
Long Term												
Full Simulation Period[b]	-202	-275	-294	-418	-442	-366	-506	-628	-592	-388	-222	-171
Water Year Types[c]												
Wet (32%)	-214	-311	-407	-498	-426	-229	-408	-573	-503	-380	-210	-199
Above Normal (16%)	-170	-261	-281	-458	-473	-342	-548	-671	-591	-385	-170	-111
Below Normal (13%)	-313	-435	-411	-584	-572	-483	-603	-699	-727	-489	-221	-128
Dry (24%)	-153	-192	-141	-289	-402	-444	-546	-663	-650	-352	-249	-178
Critical (15%)	-193	-204	-212	-263	-390	-448	-520	-577	-569	-379	-261	-202

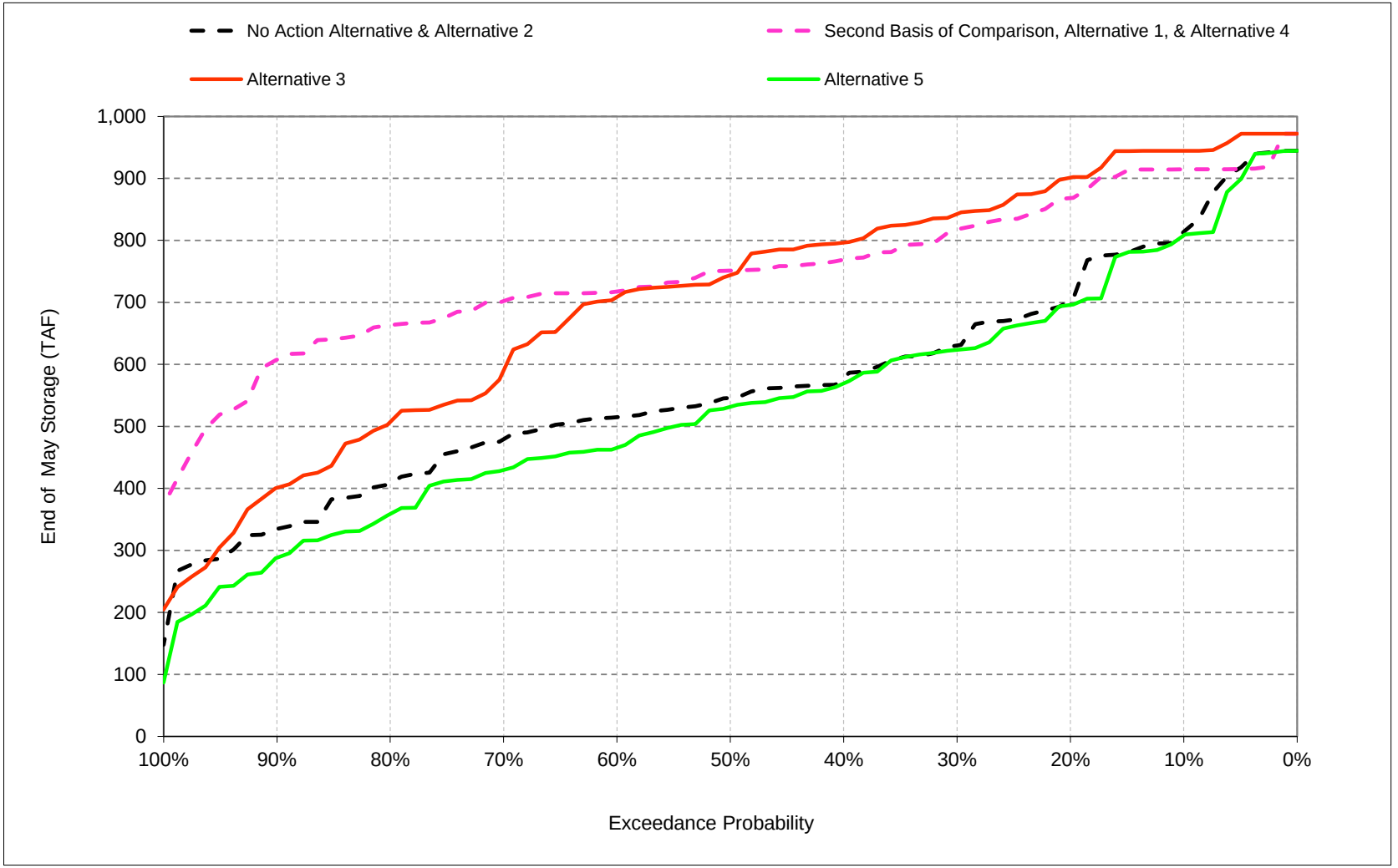
a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

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.

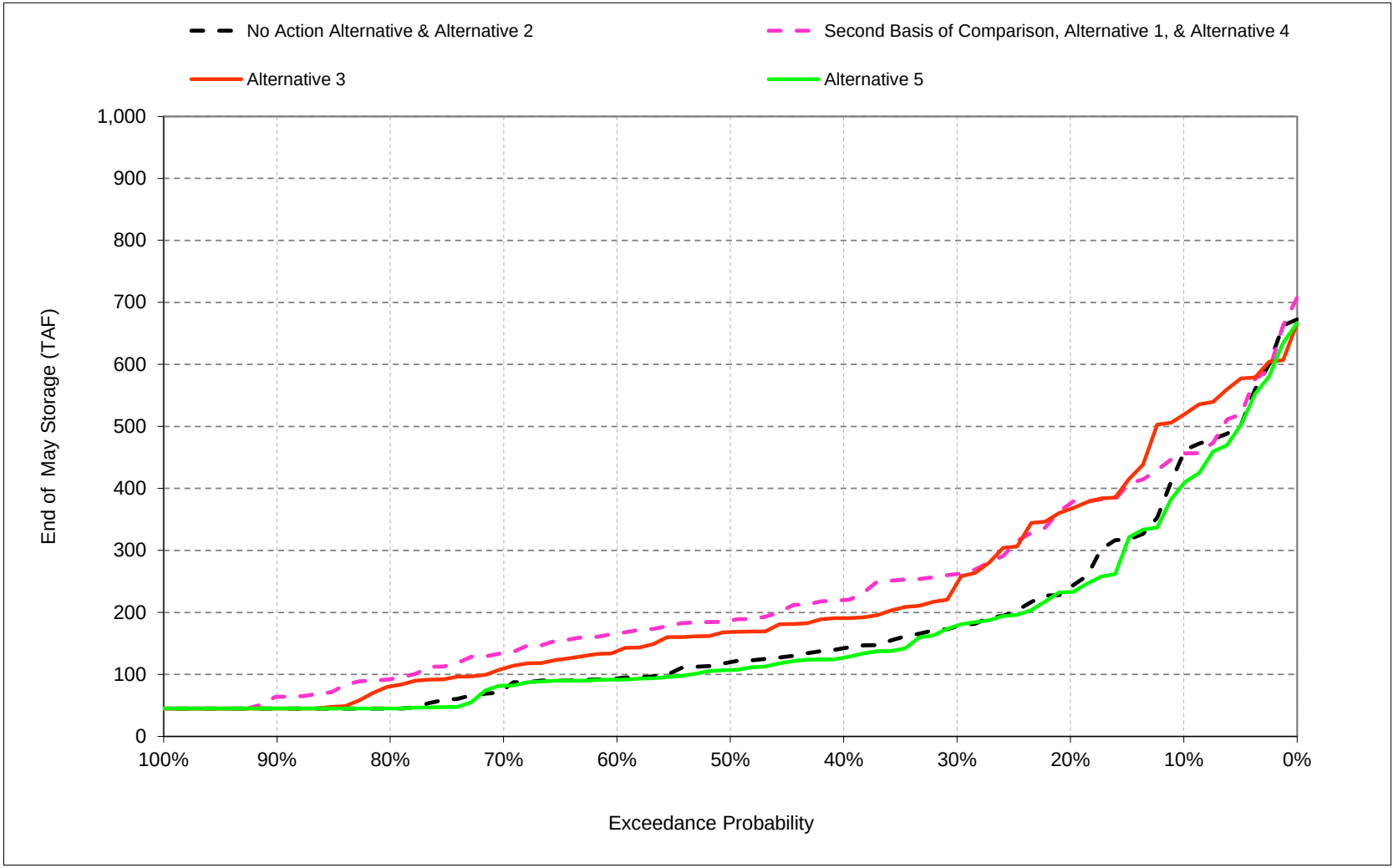
Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed 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.

Figure C-5-2-1. San Luis Reservoir (CVP), End of May Storage



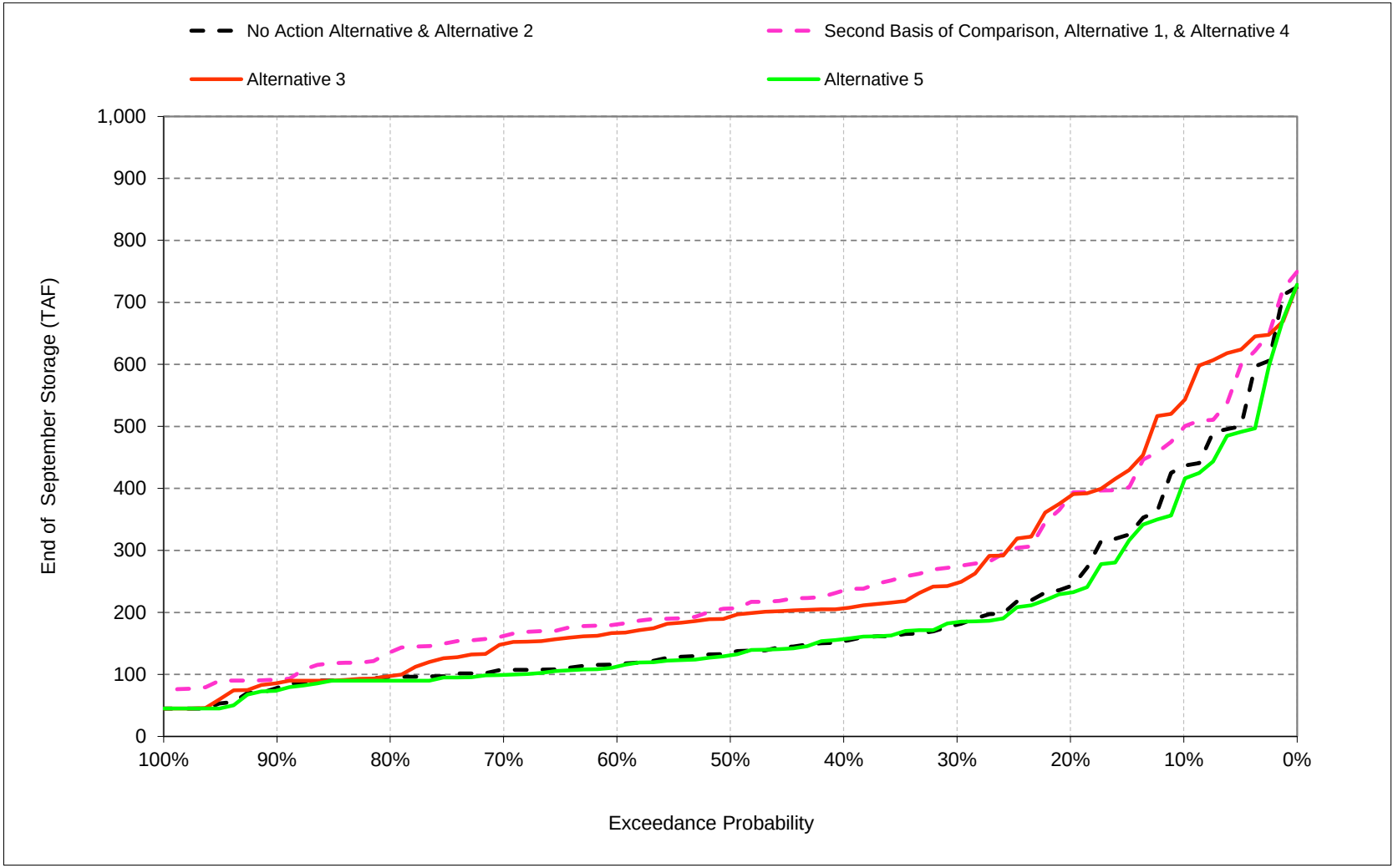
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-5-2-2. San Luis Reservoir (CVP), End of August Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-5-2-3. San Luis Reservoir (CVP), End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-5-2-1. San Luis Reservoir (CVP), End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	408	488	706	888	972	972	921	814	690	505	457	436
20%	278	373	573	741	904	972	870	703	603	403	241	242
30%	233	367	553	684	798	930	830	630	464	303	178	180
40%	201	367	544	660	762	861	768	579	387	283	142	154
50%	183	350	512	622	728	808	707	546	365	231	120	135
60%	175	324	493	599	666	758	681	515	337	170	93	116
70%	160	283	454	575	610	704	626	479	286	135	76	107
80%	136	244	386	526	561	615	552	408	229	99	45	96
90%	109	172	300	428	515	545	487	335	161	45	45	78
Long Term												
Full Simulation Period[b]	232	347	510	631	717	783	710	566	396	258	173	191
Water Year Types[c]												
Wet (32%)	232	354	522	652	777	886	812	662	516	311	196	209
Above Normal (16%)	218	365	535	646	739	828	728	547	366	165	111	127
Below Normal (13%)	234	350	526	634	694	745	658	492	296	216	163	203
Dry (24%)	226	329	495	623	688	734	675	545	358	282	173	193
Critical (15%)	258	339	465	583	633	627	577	481	325	239	197	209

Alternative 1

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	519	632	834	972	972	972	972	915	727	577	456	498
20%	394	529	719	958	972	972	972	868	681	507	376	388
30%	326	473	657	847	972	972	972	817	599	428	262	274
40%	292	426	607	800	964	972	972	769	542	381	220	236
50%	247	402	567	758	926	972	972	751	520	321	187	206
60%	213	355	534	715	875	972	922	717	486	256	166	181
70%	188	330	518	684	825	935	883	702	449	222	134	162
80%	168	294	474	646	777	870	841	663	420	198	93	136
90%	119	247	374	547	637	775	751	608	352	158	64	92
Long Term												
Full Simulation Period[b]	288	420	591	760	865	916	896	748	533	343	230	254
Water Year Types[c]												
Wet (32%)	273	422	609	788	916	967	966	823	589	358	228	260
Above Normal (16%)	280	421	595	773	903	953	953	760	510	227	117	166
Below Normal (13%)	296	448	628	801	876	920	885	708	467	294	210	232
Dry (24%)	293	412	568	736	827	896	857	715	521	401	256	268
Critical (15%)	316	406	552	688	770	792	760	664	517	385	332	335

Alternative 1 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	112	144	128	84	0	0	51	101	38	72	-2	62
20%	116	155	147	217	68	0	102	165	78	104	135	146
30%	93	106	104	163	174	42	142	186	135	125	84	94
40%	91	59	63	140	202	111	204	190	156	98	78	82
50%	63	52	55	136	198	164	265	205	156	91	67	71
60%	38	31	41	117	209	214	241	202	149	87	73	64
70%	27	47	64	109	215	232	257	223	162	88	58	55
80%	32	50	88	120	216	254	288	255	191	99	48	40
90%	10	75	74	119	122	230	264	273	192	113	19	13
Long Term												
Full Simulation Period[b]	56	73	82	129	148	133	186	182	137	85	58	63
Water Year Types[c]												
Wet (32%)	41	68	87	136	138	81	154	160	73	47	32	50
Above Normal (16%)	62	56	60	127	164	125	225	213	144	62	6	39
Below Normal (13%)	62	97	103	167	182	175	227	216	171	78	47	29
Dry (24%)	67	83	73	113	139	162	182	170	163	119	83	75
Critical (15%)	58	67	87	105	137	165	183	183	192	146	135	126

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 C-5-2-2. San Luis Reservoir (CVP), End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	408	488	706	888	972	972	921	814	690	505	457	436
20%	278	373	573	741	904	972	870	703	603	403	241	242
30%	233	367	553	684	798	930	830	630	464	303	178	180
40%	201	367	544	660	762	861	768	579	387	283	142	154
50%	183	350	512	622	728	808	707	546	365	231	120	135
60%	175	324	493	599	666	758	681	515	337	170	93	116
70%	160	283	454	575	610	704	626	479	286	135	76	107
80%	136	244	386	526	561	615	552	408	229	99	45	96
90%	109	172	300	428	515	545	487	335	161	45	45	78
Long Term												
Full Simulation Period[b]	232	347	510	631	717	783	710	566	396	258	173	191
Water Year Types[c]												
Wet (32%)	232	354	522	652	777	886	812	662	516	311	196	209
Above Normal (16%)	218	365	535	646	739	828	728	547	366	165	111	127
Below Normal (13%)	234	350	526	634	694	745	658	492	296	216	163	203
Dry (24%)	226	329	495	623	688	734	675	545	358	282	173	193
Critical (15%)	258	339	465	583	633	627	577	481	325	239	197	209

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	601	699	886	972	972	972	972	945	842	611	519	541
20%	439	593	771	870	972	972	972	901	715	543	367	388
30%	298	447	652	784	913	972	954	842	661	412	247	247
40%	276	424	589	733	849	960	935	796	601	358	191	207
50%	252	377	552	680	805	903	881	744	529	320	169	193
60%	220	343	519	631	719	841	821	709	490	254	138	167
70%	180	306	502	608	661	766	748	590	401	206	110	149
80%	147	290	446	569	620	676	632	507	304	144	81	97
90%	97	193	341	452	545	543	489	401	237	89	45	86
Long Term												
Full Simulation Period[b]	292	422	583	691	768	823	806	704	525	332	219	245
Water Year Types[c]												
Wet (32%)	308	454	627	747	871	944	943	861	695	434	277	305
Above Normal (16%)	264	399	553	639	724	831	825	717	521	247	148	182
Below Normal (13%)	330	477	653	752	799	837	790	648	429	257	165	218
Dry (24%)	286	407	565	679	728	772	748	640	461	352	231	246
Critical (15%)	265	353	487	594	634	626	596	505	356	237	198	204

Alternative 3 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	193	210	180	84	0	0	51	131	152	106	62	105
20%	161	220	199	129	68	0	102	198	112	141	126	145
30%	66	80	100	101	115	42	124	212	197	109	70	67
40%	74	58	45	74	86	99	166	217	214	76	49	53
50%	69	27	39	59	77	94	174	198	164	89	49	58
60%	45	19	26	32	53	84	140	194	153	84	44	50
70%	20	23	48	33	52	63	122	111	115	71	34	42
80%	11	46	60	44	59	61	80	99	75	45	36	2
90%	-12	22	42	24	31	-2	2	66	76	44	0	8
Long Term												
Full Simulation Period[b]	60	75	74	60	51	40	95	138	129	74	46	53
Water Year Types[c]												
Wet (32%)	76	101	106	95	94	57	132	199	179	123	81	96
Above Normal (16%)	46	34	18	-7	-15	3	97	170	155	82	37	55
Below Normal (13%)	96	126	127	118	106	91	132	156	133	41	3	15
Dry (24%)	60	78	71	56	40	38	73	95	102	70	58	53
Critical (15%)	7	14	22	12	1	-1	19	24	31	-3	1	-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 C-5-2-3. San Luis Reservoir (CVP), End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	408	488	706	888	972	972	921	814	690	505	457	436
20%	278	373	573	741	904	972	870	703	603	403	241	242
30%	233	367	553	684	798	930	830	630	464	303	178	180
40%	201	367	544	660	762	861	768	579	387	283	142	154
50%	183	350	512	622	728	808	707	546	365	231	120	135
60%	175	324	493	599	666	758	681	515	337	170	93	116
70%	160	283	454	575	610	704	626	479	286	135	76	107
80%	136	244	386	526	561	615	552	408	229	99	45	96
90%	109	172	300	428	515	545	487	335	161	45	45	78
Long Term												
Full Simulation Period[b]	232	347	510	631	717	783	710	566	396	258	173	191
Water Year Types[c]												
Wet (32%)	232	354	522	652	777	886	812	662	516	311	196	209
Above Normal (16%)	218	365	535	646	739	828	728	547	366	165	111	127
Below Normal (13%)	234	350	526	634	694	745	658	492	296	216	163	203
Dry (24%)	226	329	495	623	688	734	675	545	358	282	173	193
Critical (15%)	258	339	465	583	633	627	577	481	325	239	197	209

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	367	491	703	875	972	972	921	808	686	505	408	410
20%	271	367	570	721	859	972	861	696	552	398	233	232
30%	218	367	550	689	794	925	827	624	449	287	179	184
40%	191	359	539	644	764	851	751	569	383	245	127	157
50%	183	344	512	621	715	809	712	532	351	199	107	131
60%	170	307	489	592	664	758	651	466	286	154	92	113
70%	157	275	423	550	603	701	628	430	243	122	82	99
80%	135	224	375	474	553	617	526	359	171	79	45	90
90%	107	165	293	422	503	526	449	288	83	45	45	74
Long Term												
Full Simulation Period[b]	223	337	500	624	712	778	694	535	371	241	165	183
Water Year Types[c]												
Wet (32%)	228	356	525	657	781	891	819	670	525	321	205	213
Above Normal (16%)	213	346	517	634	728	818	720	541	366	168	112	126
Below Normal (13%)	226	342	516	625	695	747	655	478	289	217	159	203
Dry (24%)	215	314	481	609	675	721	634	470	293	235	150	176
Critical (15%)	236	318	442	566	620	613	531	398	250	179	164	175

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-41	3	-3	-13	0	0	0	-6	-3	0	-49	-25
20%	-7	-7	-2	-20	-45	0	-9	-8	-51	-4	-8	-10
30%	-15	0	-3	5	-5	-4	-3	-7	-15	-16	1	4
40%	-10	-8	-4	-15	1	-10	-17	-10	-4	-38	-15	4
50%	0	-5	0	-1	-13	1	4	-14	-14	-31	-13	-4
60%	-5	-17	-4	-7	-2	1	-30	-49	-51	-16	-2	-4
70%	-3	-9	-30	-25	-6	-3	3	-49	-43	-13	6	-8
80%	-1	-20	-11	-51	-8	1	-26	-50	-58	-20	0	-6
90%	-2	-6	-6	-6	-12	-19	-38	-46	-77	0	0	-4
Long Term												
Full Simulation Period[b]	-9	-10	-10	-7	-6	-5	-16	-31	-25	-17	-8	-8
Water Year Types[c]												
Wet (32%)	-4	2	3	5	4	5	7	8	9	10	9	4
Above Normal (16%)	-5	-19	-19	-12	-11	-10	-8	-6	0	3	1	-1
Below Normal (13%)	-8	-8	-10	-9	1	2	-3	-14	-7	1	-4	-1
Dry (24%)	-11	-15	-13	-14	-13	-13	-41	-75	-65	-46	-23	-17
Critical (15%)	-22	-21	-24	-17	-13	-14	-46	-82	-75	-61	-33	-34

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 C-5-2-4. San Luis Reservoir (CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	519	632	834	972	972	972	972	915	727	577	456	498
20%	394	529	719	958	972	972	972	868	681	507	376	388
30%	326	473	657	847	972	972	972	817	599	428	262	274
40%	292	426	607	800	964	972	972	769	542	381	220	236
50%	247	402	567	758	926	972	972	751	520	321	187	206
60%	213	355	534	715	875	972	922	717	486	256	166	181
70%	188	330	518	684	825	935	883	702	449	222	134	162
80%	168	294	474	646	777	870	841	663	420	198	93	136
90%	119	247	374	547	637	775	751	608	352	158	64	92
Long Term												
Full Simulation Period[b]	288	420	591	760	865	916	896	748	533	343	230	254
Water Year Types[c]												
Wet (32%)	273	422	609	788	916	967	966	823	589	358	228	260
Above Normal (16%)	280	421	595	773	903	953	953	760	510	227	117	166
Below Normal (13%)	296	448	628	801	876	920	885	708	467	294	210	232
Dry (24%)	293	412	568	736	827	896	857	715	521	401	256	268
Critical (15%)	316	406	552	688	770	792	760	664	517	385	332	335

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	408	488	706	888	972	972	921	814	690	505	457	436
20%	278	373	573	741	904	972	870	703	603	403	241	242
30%	233	367	553	684	798	930	830	630	464	303	178	180
40%	201	367	544	660	762	861	768	579	387	283	142	154
50%	183	350	512	622	728	808	707	546	365	231	120	135
60%	175	324	493	599	666	758	681	515	337	170	93	116
70%	160	283	454	575	610	704	626	479	286	135	76	107
80%	136	244	386	526	561	615	552	408	229	99	45	96
90%	109	172	300	428	515	545	487	335	161	45	45	78
Long Term												
Full Simulation Period[b]	232	347	510	631	717	783	710	566	396	258	173	191
Water Year Types[c]												
Wet (32%)	232	354	522	652	777	886	812	662	516	311	196	209
Above Normal (16%)	218	365	535	646	739	828	728	547	366	165	111	127
Below Normal (13%)	234	350	526	634	694	745	658	492	296	216	163	203
Dry (24%)	226	329	495	623	688	734	675	545	358	282	173	193
Critical (15%)	258	339	465	583	633	627	577	481	325	239	197	209

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-112	-144	-128	-84	0	0	-51	-101	-38	-72	2	-62
20%	-116	-155	-147	-217	-68	0	-102	-165	-78	-104	-135	-146
30%	-93	-106	-104	-163	-174	-42	-142	-186	-135	-125	-84	-94
40%	-91	-59	-63	-140	-202	-111	-204	-190	-156	-98	-78	-82
50%	-63	-52	-55	-136	-198	-164	-265	-205	-156	-91	-67	-71
60%	-38	-31	-41	-117	-209	-214	-241	-202	-149	-87	-73	-64
70%	-27	-47	-64	-109	-215	-232	-257	-223	-162	-88	-58	-55
80%	-32	-50	-88	-120	-216	-254	-288	-255	-191	-99	-48	-40
90%	-10	-75	-74	-119	-122	-230	-264	-273	-192	-113	-19	-13
Long Term												
Full Simulation Period[b]	-56	-73	-82	-129	-148	-133	-186	-182	-137	-85	-58	-63
Water Year Types[c]												
Wet (32%)	-41	-68	-87	-136	-138	-81	-154	-160	-73	-47	-32	-50
Above Normal (16%)	-62	-56	-60	-127	-164	-125	-225	-213	-144	-62	-6	-39
Below Normal (13%)	-62	-97	-103	-167	-182	-175	-227	-216	-171	-78	-47	-29
Dry (24%)	-67	-83	-73	-113	-139	-162	-182	-170	-163	-119	-83	-75
Critical (15%)	-58	-67	-87	-105	-137	-165	-183	-183	-192	-146	-135	-126

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 C-5-2-5. San Luis Reservoir (CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	519	632	834	972	972	972	972	915	727	577	456	498
20%	394	529	719	958	972	972	972	868	681	507	376	388
30%	326	473	657	847	972	972	972	817	599	428	262	274
40%	292	426	607	800	964	972	972	769	542	381	220	236
50%	247	402	567	758	926	972	972	751	520	321	187	206
60%	213	355	534	715	875	972	922	717	486	256	166	181
70%	188	330	518	684	825	935	883	702	449	222	134	162
80%	168	294	474	646	777	870	841	663	420	198	93	136
90%	119	247	374	547	637	775	751	608	352	158	64	92
Long Term												
Full Simulation Period[b]	288	420	591	760	865	916	896	748	533	343	230	254
Water Year Types[c]												
Wet (32%)	273	422	609	788	916	967	966	823	589	358	228	260
Above Normal (16%)	280	421	595	773	903	953	953	760	510	227	117	166
Below Normal (13%)	296	448	628	801	876	920	885	708	467	294	210	232
Dry (24%)	293	412	568	736	827	896	857	715	521	401	256	268
Critical (15%)	316	406	552	688	770	792	760	664	517	385	332	335

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	601	699	886	972	972	972	972	945	842	611	519	541
20%	439	593	771	870	972	972	972	901	715	543	367	388
30%	298	447	652	784	913	972	954	842	661	412	247	247
40%	276	424	589	733	849	960	935	796	601	358	191	207
50%	252	377	552	680	805	903	881	744	529	320	169	193
60%	220	343	519	631	719	841	821	709	490	254	138	167
70%	180	306	502	608	661	766	748	590	401	206	110	149
80%	147	290	446	569	620	676	632	507	304	144	81	97
90%	97	193	341	452	545	543	489	401	237	89	45	86
Long Term												
Full Simulation Period[b]	292	422	583	691	768	823	806	704	525	332	219	245
Water Year Types[c]												
Wet (32%)	308	454	627	747	871	944	943	861	695	434	277	305
Above Normal (16%)	264	399	553	639	724	831	825	717	521	247	148	182
Below Normal (13%)	330	477	653	752	799	837	790	648	429	257	165	218
Dry (24%)	286	407	565	679	728	772	748	640	461	352	231	246
Critical (15%)	265	353	487	594	634	626	596	505	356	237	198	204

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	81	67	52	0	0	0	0	30	114	34	63	43
20%	45	65	52	-88	0	0	0	33	34	36	-9	0
30%	-28	-26	-5	-63	-59	0	-18	26	62	-16	-15	-27
40%	-16	-1	-18	-66	-115	-12	-37	27	58	-23	-29	-29
50%	5	-24	-15	-78	-121	-69	-91	-7	9	-1	-19	-13
60%	8	-13	-15	-84	-156	-131	-101	-9	4	-3	-29	-14
70%	-7	-24	-16	-76	-163	-169	-135	-112	-48	-17	-25	-13
80%	-21	-4	-28	-77	-157	-193	-208	-156	-116	-54	-12	-38
90%	-22	-53	-32	-95	-92	-231	-262	-207	-116	-70	-19	-6
Long Term												
Full Simulation Period[b]	4	2	-8	-69	-97	-93	-91	-44	-8	-11	-11	-9
Water Year Types[c]												
Wet (32%)	35	33	18	-42	-45	-24	-22	39	106	76	48	46
Above Normal (16%)	-16	-22	-42	-134	-179	-122	-128	-43	11	21	31	16
Below Normal (13%)	33	29	25	-49	-77	-83	-95	-60	-38	-37	-44	-14
Dry (24%)	-7	-5	-2	-57	-99	-124	-109	-74	-61	-49	-25	-22
Critical (15%)	-52	-53	-65	-94	-135	-166	-164	-159	-161	-148	-134	-131

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 C-5-2-6. San Luis Reservoir (CVP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	519	632	834	972	972	972	972	915	727	577	456	498
20%	394	529	719	958	972	972	972	868	681	507	376	388
30%	326	473	657	847	972	972	972	817	599	428	262	274
40%	292	426	607	800	964	972	972	769	542	381	220	236
50%	247	402	567	758	926	972	972	751	520	321	187	206
60%	213	355	534	715	875	972	922	717	486	256	166	181
70%	188	330	518	684	825	935	883	702	449	222	134	162
80%	168	294	474	646	777	870	841	663	420	198	93	136
90%	119	247	374	547	637	775	751	608	352	158	64	92
Long Term												
Full Simulation Period[b]	288	420	591	760	865	916	896	748	533	343	230	254
Water Year Types[c]												
Wet (32%)	273	422	609	788	916	967	966	823	589	358	228	260
Above Normal (16%)	280	421	595	773	903	953	953	760	510	227	117	166
Below Normal (13%)	296	448	628	801	876	920	885	708	467	294	210	232
Dry (24%)	293	412	568	736	827	896	857	715	521	401	256	268
Critical (15%)	316	406	552	688	770	792	760	664	517	385	332	335

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	367	491	703	875	972	972	921	808	686	505	408	410
20%	271	367	570	721	859	972	861	696	552	398	233	232
30%	218	367	550	689	794	925	827	624	449	287	179	184
40%	191	359	539	644	764	851	751	569	383	245	127	157
50%	183	344	512	621	715	809	712	532	351	199	107	131
60%	170	307	489	592	664	758	651	466	286	154	92	113
70%	157	275	423	550	603	701	628	430	243	122	82	99
80%	135	224	375	474	553	617	526	359	171	79	45	90
90%	107	165	293	422	503	526	449	288	83	45	45	74
Long Term												
Full Simulation Period[b]	223	337	500	624	712	778	694	535	371	241	165	183
Water Year Types[c]												
Wet (32%)	228	356	525	657	781	891	819	670	525	321	205	213
Above Normal (16%)	213	346	517	634	728	818	720	541	366	168	112	126
Below Normal (13%)	226	342	516	625	695	747	655	478	289	217	159	203
Dry (24%)	215	314	481	609	675	721	634	470	293	235	150	176
Critical (15%)	236	318	442	566	620	613	531	398	250	179	164	175

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-153	-141	-131	-97	0	0	-51	-107	-41	-71	-48	-88
20%	-122	-162	-149	-237	-113	0	-111	-173	-129	-109	-143	-156
30%	-108	-106	-107	-158	-178	-47	-145	-193	-150	-141	-83	-90
40%	-101	-67	-68	-155	-200	-121	-221	-200	-160	-136	-93	-79
50%	-63	-57	-55	-137	-211	-163	-260	-219	-169	-122	-80	-75
60%	-42	-48	-45	-123	-212	-214	-271	-252	-200	-103	-75	-68
70%	-30	-56	-95	-134	-222	-234	-254	-272	-205	-100	-53	-63
80%	-33	-70	-99	-171	-224	-253	-314	-305	-249	-119	-48	-46
90%	-12	-81	-80	-125	-134	-249	-302	-319	-269	-113	-19	-17
Long Term												
Full Simulation Period[b]	-65	-83	-91	-136	-154	-138	-202	-212	-162	-102	-66	-71
Water Year Types[c]												
Wet (32%)	-44	-66	-84	-132	-134	-76	-147	-152	-64	-38	-24	-47
Above Normal (16%)	-67	-74	-79	-139	-175	-135	-233	-219	-144	-59	-5	-40
Below Normal (13%)	-70	-105	-112	-176	-181	-173	-230	-230	-178	-77	-51	-29
Dry (24%)	-79	-98	-86	-127	-152	-175	-223	-244	-228	-165	-106	-92
Critical (15%)	-80	-88	-110	-122	-150	-179	-229	-265	-267	-206	-168	-160

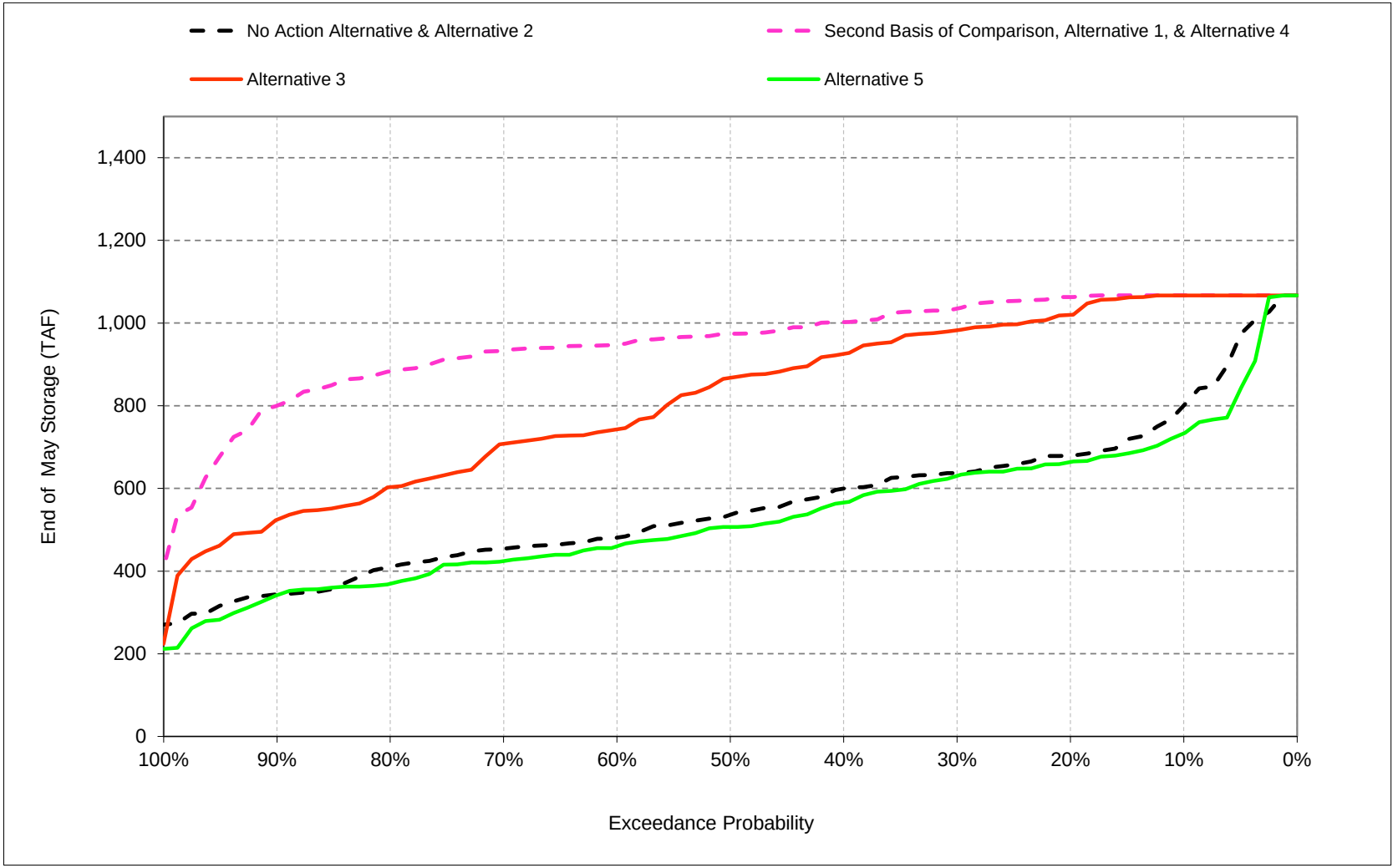
a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

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.

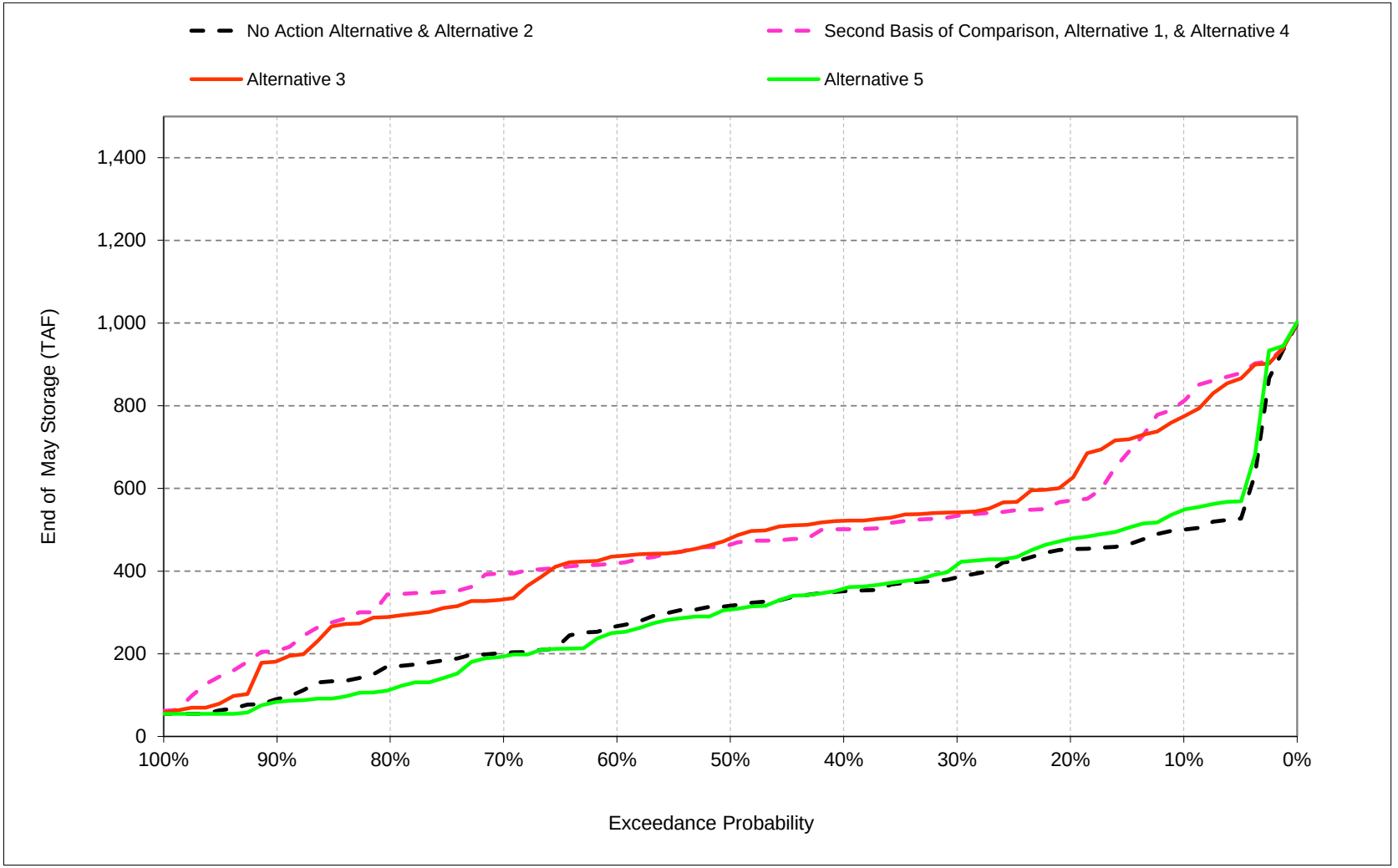
Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed 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.

Figure C-5-3-1. San Luis Reservoir (SWP), End of May Storage



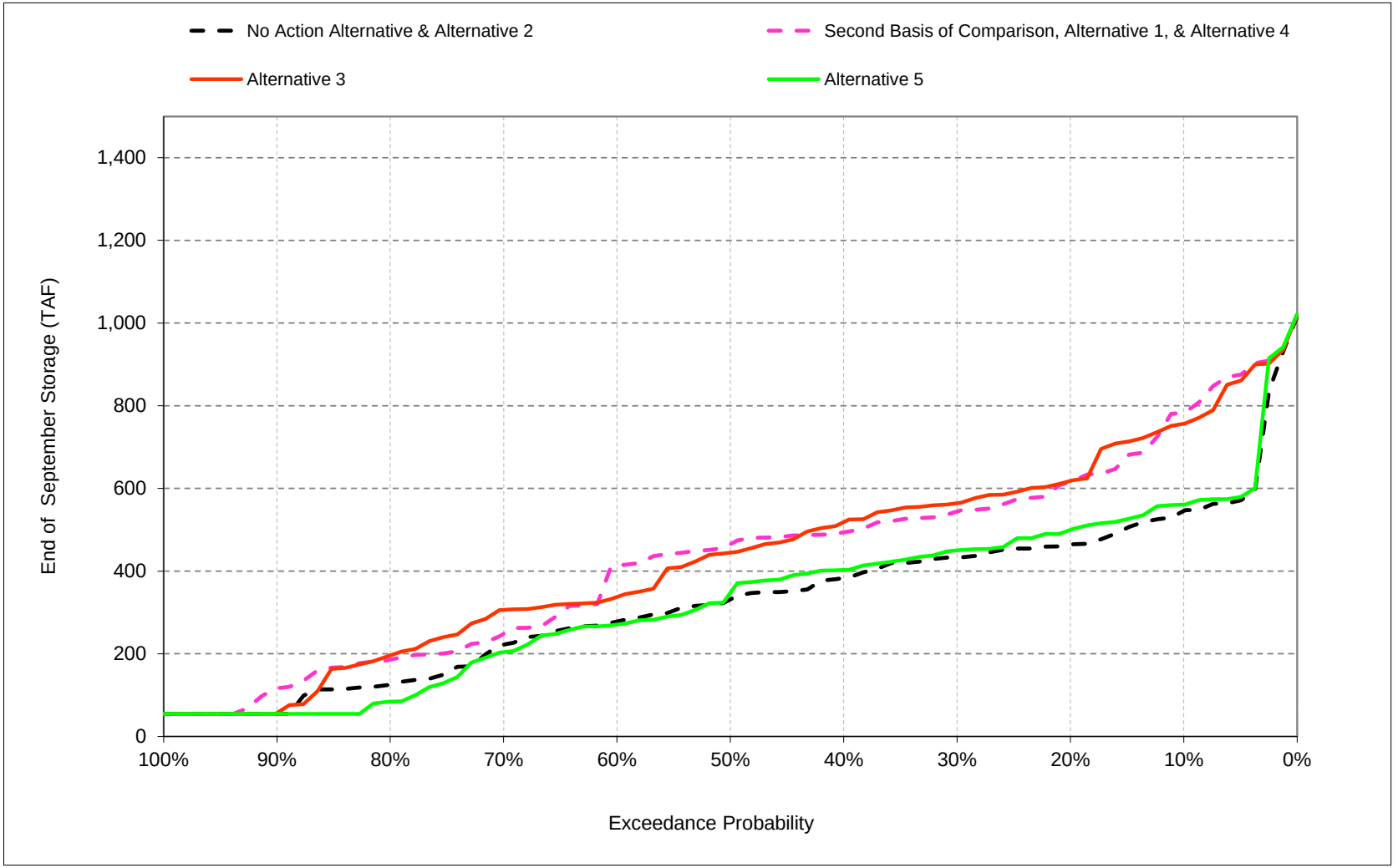
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-5-3-2. San Luis Reservoir (SWP), End of August Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-5-3-3. San Luis Reservoir (SWP), End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-5-3-1. San Luis Reservoir (SWP), 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%	532	574	700	925	1,067	1,067	964	800	613	595	501	545
20%	414	443	605	795	878	1,025	916	679	528	495	453	464
30%	339	357	524	656	801	942	821	637	455	450	385	433
40%	304	327	449	581	719	894	777	600	405	402	351	383
50%	254	242	362	495	657	804	749	536	361	351	316	332
60%	205	164	243	431	609	755	667	481	321	317	266	278
70%	166	88	200	369	511	664	590	454	283	298	202	222
80%	75	55	153	303	435	556	530	410	250	229	170	126
90%	55	55	59	243	380	502	458	344	212	173	91	55
Long Term												
Full Simulation Period[b]	278	281	381	540	674	792	721	562	397	384	318	330
Water Year Types[c]												
Wet (32%)	323	327	410	584	749	901	787	589	430	430	432	470
Above Normal (16%)	272	284	421	577	702	832	716	501	300	301	322	387
Below Normal (13%)	291	274	381	507	620	728	653	475	259	284	263	264
Dry (24%)	250	261	373	527	650	760	738	623	482	481	303	277
Critical (15%)	220	218	286	457	571	625	615	548	415	305	145	114

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%	837	847	998	1,067	1,067	1,067	1,067	1,067	1,001	925	811	783
20%	623	695	894	1,067	1,067	1,067	1,067	1,063	911	769	571	617
30%	552	660	803	1,067	1,067	1,067	1,067	1,035	886	713	534	544
40%	482	579	680	977	1,067	1,067	1,067	1,002	849	681	501	494
50%	452	474	622	882	1,067	1,067	1,067	974	826	651	464	465
60%	352	406	487	800	1,066	1,067	1,067	948	779	628	419	414
70%	212	268	439	664	953	1,067	1,027	934	739	604	394	248
80%	133	166	287	585	850	1,029	994	883	702	539	344	186
90%	55	77	130	486	740	941	921	800	643	474	207	117
Long Term												
Full Simulation Period[b]	422	475	589	825	966	1,025	1,014	949	805	657	475	433
Water Year Types[c]												
Wet (32%)	517	595	756	960	1,049	1,066	1,066	1,030	898	809	661	665
Above Normal (16%)	377	462	618	898	1,010	1,049	1,043	957	753	635	495	465
Below Normal (13%)	558	616	705	941	1,032	1,060	1,023	920	784	671	426	359
Dry (24%)	324	352	430	692	901	1,029	1,012	951	820	606	404	329
Critical (15%)	306	304	358	569	786	872	863	787	651	422	213	137

Alternative 1 minus 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%	305	273	297	142	0	0	103	267	387	330	310	238
20%	209	251	289	272	189	42	151	384	382	274	118	153
30%	213	303	279	411	266	125	246	398	431	263	149	111
40%	178	252	231	395	348	173	290	402	444	279	150	110
50%	199	232	260	388	410	263	318	438	466	300	148	133
60%	147	242	245	369	457	312	400	467	458	310	153	136
70%	46	180	239	295	442	403	437	479	456	306	192	26
80%	58	111	134	283	415	474	464	473	452	310	174	60
90%	0	22	71	243	360	439	464	457	431	301	117	62
Long Term												
Full Simulation Period[b]	144	194	209	285	292	233	293	387	408	273	156	103
Water Year Types[c]												
Wet (32%)	194	268	346	376	300	164	279	441	468	379	229	195
Above Normal (16%)	106	178	196	321	308	216	327	456	454	334	173	78
Below Normal (13%)	267	342	325	434	412	332	369	444	525	387	162	95
Dry (24%)	74	91	57	164	250	269	274	328	338	125	101	52
Critical (15%)	85	86	71	112	216	247	248	240	237	118	67	23

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 C-5-3-2. San Luis Reservoir (SWP), 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%	532	574	700	925	1,067	1,067	964	800	613	595	501	545
20%	414	443	605	795	878	1,025	916	679	528	495	453	464
30%	339	357	524	656	801	942	821	637	455	450	385	433
40%	304	327	449	581	719	894	777	600	405	402	351	383
50%	254	242	362	495	657	804	749	536	361	351	316	332
60%	205	164	243	431	609	755	667	481	321	317	266	278
70%	166	88	200	369	511	664	590	454	283	298	202	222
80%	75	55	153	303	435	556	530	410	250	229	170	126
90%	55	55	59	243	380	502	458	344	212	173	91	55
Long Term												
Full Simulation Period[b]	278	281	381	540	674	792	721	562	397	384	318	330
Water Year Types[c]												
Wet (32%)	323	327	410	584	749	901	787	589	430	430	432	470
Above Normal (16%)	272	284	421	577	702	832	716	501	300	301	322	387
Below Normal (13%)	291	274	381	507	620	728	653	475	259	284	263	264
Dry (24%)	250	261	373	527	650	760	738	623	482	481	303	277
Critical (15%)	220	218	286	457	571	625	615	548	415	305	145	114

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%	791	864	912	1,049	1,067	1,067	1,067	1,067	951	856	774	756
20%	663	730	806	968	1,067	1,067	1,067	1,020	838	752	622	618
30%	552	618	701	854	1,002	1,067	1,067	983	783	706	542	564
40%	457	512	628	801	922	1,055	1,032	925	712	642	522	519
50%	375	451	582	720	835	937	973	867	659	604	479	445
60%	302	411	477	619	774	899	876	743	594	549	436	337
70%	226	286	399	540	671	820	802	708	545	489	331	306
80%	119	181	239	408	598	695	726	603	481	427	290	196
90%	55	57	143	341	415	534	570	524	406	320	182	57
Long Term												
Full Simulation Period[b]	410	467	547	689	805	885	890	813	664	598	471	434
Water Year Types[c]												
Wet (32%)	502	578	649	809	939	1,014	1,032	989	844	794	684	674
Above Normal (16%)	355	444	556	703	847	925	938	857	633	582	526	521
Below Normal (13%)	504	566	652	737	823	899	860	690	470	480	420	343
Dry (24%)	348	396	487	624	727	836	845	773	667	574	359	289
Critical (15%)	283	279	317	482	581	630	631	563	482	336	182	147

Alternative 3 minus 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%	259	290	212	124	0	0	103	267	338	262	274	211
20%	248	287	201	174	189	42	151	341	310	258	169	154
30%	213	261	177	198	202	125	246	345	328	255	157	131
40%	153	186	178	220	203	161	255	325	307	240	171	135
50%	121	209	220	226	177	133	224	331	299	253	163	113
60%	97	247	235	188	165	144	208	262	273	231	169	60
70%	59	197	199	171	160	156	212	254	262	191	129	84
80%	44	126	85	106	164	139	196	193	231	198	120	70
90%	0	2	84	98	35	31	113	181	194	147	92	2
Long Term												
Full Simulation Period[b]	132	186	166	149	131	93	169	251	268	213	153	105
Water Year Types[c]												
Wet (32%)	179	251	239	225	190	112	245	400	414	364	253	204
Above Normal (16%)	84	160	135	126	145	93	222	356	334	281	204	135
Below Normal (13%)	213	293	271	230	203	171	207	214	211	196	157	79
Dry (24%)	98	136	114	96	77	76	107	151	185	93	56	12
Critical (15%)	63	62	31	25	11	5	15	16	67	31	36	33

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 C-5-3-3. San Luis Reservoir (SWP), End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	532	574	700	925	1,067	1,067	964	800	613	595	501	545
20%	414	443	605	795	878	1,025	916	679	528	495	453	464
30%	339	357	524	656	801	942	821	637	455	450	385	433
40%	304	327	449	581	719	894	777	600	405	402	351	383
50%	254	242	362	495	657	804	749	536	361	351	316	332
60%	205	164	243	431	609	755	667	481	321	317	266	278
70%	166	88	200	369	511	664	590	454	283	298	202	222
80%	75	55	153	303	435	556	530	410	250	229	170	126
90%	55	55	59	243	380	502	458	344	212	173	91	55
Long Term												
Full Simulation Period[b]	278	281	381	540	674	792	721	562	397	384	318	330
Water Year Types[c]												
Wet (32%)	323	327	410	584	749	901	787	589	430	430	432	470
Above Normal (16%)	272	284	421	577	702	832	716	501	300	301	322	387
Below Normal (13%)	291	274	381	507	620	728	653	475	259	284	263	264
Dry (24%)	250	261	373	527	650	760	738	623	482	481	303	277
Critical (15%)	220	218	286	457	571	625	615	548	415	305	145	114

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	512	520	706	913	1,065	1,067	935	733	620	580	548	561
20%	431	476	577	750	867	1,013	899	664	489	492	478	500
30%	373	369	500	647	806	943	827	630	422	448	415	450
40%	334	318	463	573	724	874	764	566	381	379	358	403
50%	290	235	363	496	666	803	734	507	332	325	307	347
60%	201	194	285	432	618	750	639	460	289	296	251	271
70%	144	116	234	385	525	672	583	424	273	270	194	204
80%	66	66	176	344	446	583	552	369	233	217	113	84
90%	55	55	74	249	378	477	442	342	178	181	84	55
Long Term												
Full Simulation Period[b]	285	283	387	543	678	797	710	533	374	370	318	333
Water Year Types[c]												
Wet (32%)	347	350	433	594	758	912	805	609	459	466	475	513
Above Normal (16%)	275	276	416	579	712	842	727	505	306	309	329	394
Below Normal (13%)	315	286	407	533	641	749	649	451	235	258	255	260
Dry (24%)	249	258	375	530	652	760	690	532	398	420	262	243
Critical (15%)	193	187	256	428	546	603	572	476	350	249	120	95

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-21	-54	5	-12	-2	0	-29	-68	6	-15	48	15
20%	17	32	-28	-45	-11	-12	-16	-15	-39	-3	25	36
30%	34	12	-24	-9	6	1	6	-7	-33	-2	30	17
40%	30	-9	14	-9	5	-20	-12	-34	-24	-23	7	19
50%	36	-7	2	2	8	-2	-15	-29	-29	-26	-9	16
60%	-4	30	43	1	9	-5	-29	-21	-32	-21	-15	-7
70%	-23	27	34	16	14	8	-7	-30	-10	-27	-8	-18
80%	-9	10	23	42	11	27	21	-41	-18	-12	-57	-42
90%	0	0	15	6	-1	-26	-15	-2	-34	8	-7	0
Long Term												
Full Simulation Period[b]	7	2	6	3	4	5	-11	-29	-23	-14	0	3
Water Year Types[c]												
Wet (32%)	24	23	24	10	9	11	18	20	29	36	43	43
Above Normal (16%)	3	-9	-6	2	10	9	12	4	7	7	7	8
Below Normal (13%)	24	12	26	26	20	21	-4	-24	-24	-25	-8	-3
Dry (24%)	-1	-3	2	2	1	0	-48	-91	-83	-61	-41	-34
Critical (15%)	-28	-30	-30	-29	-24	-22	-44	-71	-65	-55	-26	-19

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 C-5-3-4. San Luis Reservoir (SWP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	847	998	1,067	1,067	1,067	1,067	1,067	1,001	925	811	783
20%	623	695	894	1,067	1,067	1,067	1,067	1,063	911	769	571	617
30%	552	660	803	1,067	1,067	1,067	1,067	1,035	886	713	534	544
40%	482	579	680	977	1,067	1,067	1,067	1,002	849	681	501	494
50%	452	474	622	882	1,067	1,067	1,067	974	826	651	464	465
60%	352	406	487	800	1,066	1,067	1,067	948	779	628	419	414
70%	212	268	439	664	953	1,067	1,027	934	739	604	394	248
80%	133	166	287	585	850	1,029	994	883	702	539	344	186
90%	55	77	130	486	740	941	921	800	643	474	207	117
Long Term												
Full Simulation Period[b]	422	475	589	825	966	1,025	1,014	949	805	657	475	433
Water Year Types[c]												
Wet (32%)	517	595	756	960	1,049	1,066	1,066	1,030	898	809	661	665
Above Normal (16%)	377	462	618	898	1,010	1,049	1,043	957	753	635	495	465
Below Normal (13%)	558	616	705	941	1,032	1,060	1,023	920	784	671	426	359
Dry (24%)	324	352	430	692	901	1,029	1,012	951	820	606	404	329
Critical (15%)	306	304	358	569	786	872	863	787	651	422	213	137

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	532	574	700	925	1,067	1,067	964	800	613	595	501	545
20%	414	443	605	795	878	1,025	916	679	528	495	453	464
30%	339	357	524	656	801	942	821	637	455	450	385	433
40%	304	327	449	581	719	894	777	600	405	402	351	383
50%	254	242	362	495	657	804	749	536	361	351	316	332
60%	205	164	243	431	609	755	667	481	321	317	266	278
70%	166	88	200	369	511	664	590	454	283	298	202	222
80%	75	55	153	303	435	556	530	410	250	229	170	126
90%	55	55	59	243	380	502	458	344	212	173	91	55
Long Term												
Full Simulation Period[b]	278	281	381	540	674	792	721	562	397	384	318	330
Water Year Types[c]												
Wet (32%)	323	327	410	584	749	901	787	589	430	430	432	470
Above Normal (16%)	272	284	421	577	702	832	716	501	300	301	322	387
Below Normal (13%)	291	274	381	507	620	728	653	475	259	284	263	264
Dry (24%)	250	261	373	527	650	760	738	623	482	481	303	277
Critical (15%)	220	218	286	457	571	625	615	548	415	305	145	114

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-305	-273	-297	-142	0	0	-103	-267	-387	-330	-310	-238
20%	-209	-251	-289	-272	-189	-42	-151	-384	-382	-274	-118	-153
30%	-213	-303	-279	-411	-266	-125	-246	-398	-431	-263	-149	-111
40%	-178	-252	-231	-395	-348	-173	-290	-402	-444	-279	-150	-110
50%	-199	-232	-260	-388	-410	-263	-318	-438	-466	-300	-148	-133
60%	-147	-242	-245	-369	-457	-312	-400	-467	-458	-310	-153	-136
70%	-46	-180	-239	-295	-442	-403	-437	-479	-456	-306	-192	-26
80%	-58	-111	-134	-283	-415	-474	-464	-473	-452	-310	-174	-60
90%	0	-22	-71	-243	-360	-439	-464	-457	-431	-301	-117	-62
Long Term												
Full Simulation Period[b]	-144	-194	-209	-285	-292	-233	-293	-387	-408	-273	-156	-103
Water Year Types[c]												
Wet (32%)	-194	-268	-346	-376	-300	-164	-279	-441	-468	-379	-229	-195
Above Normal (16%)	-106	-178	-196	-321	-308	-216	-327	-456	-454	-334	-173	-78
Below Normal (13%)	-267	-342	-325	-434	-412	-332	-369	-444	-525	-387	-162	-95
Dry (24%)	-74	-91	-57	-164	-250	-269	-274	-328	-338	-125	-101	-52
Critical (15%)	-85	-86	-71	-112	-216	-247	-248	-240	-237	-118	-67	-23

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 C-5-3-5. San Luis Reservoir (SWP), End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	847	998	1,067	1,067	1,067	1,067	1,067	1,001	925	811	783
20%	623	695	894	1,067	1,067	1,067	1,067	1,063	911	769	571	617
30%	552	660	803	1,067	1,067	1,067	1,067	1,035	886	713	534	544
40%	482	579	680	977	1,067	1,067	1,067	1,002	849	681	501	494
50%	452	474	622	882	1,067	1,067	1,067	974	826	651	464	465
60%	352	406	487	800	1,066	1,067	1,067	948	779	628	419	414
70%	212	268	439	664	953	1,067	1,027	934	739	604	394	248
80%	133	166	287	585	850	1,029	994	883	702	539	344	186
90%	55	77	130	486	740	941	921	800	643	474	207	117
Long Term												
Full Simulation Period[b]	422	475	589	825	966	1,025	1,014	949	805	657	475	433
Water Year Types[c]												
Wet (32%)	517	595	756	960	1,049	1,066	1,066	1,030	898	809	661	665
Above Normal (16%)	377	462	618	898	1,010	1,049	1,043	957	753	635	495	465
Below Normal (13%)	558	616	705	941	1,032	1,060	1,023	920	784	671	426	359
Dry (24%)	324	352	430	692	901	1,029	1,012	951	820	606	404	329
Critical (15%)	306	304	358	569	786	872	863	787	651	422	213	137

Alternative 3

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	791	864	912	1,049	1,067	1,067	1,067	1,067	951	856	774	756
20%	663	730	806	968	1,067	1,067	1,067	1,020	838	752	622	618
30%	552	618	701	854	1,002	1,067	1,067	983	783	706	542	564
40%	457	512	628	801	922	1,055	1,032	925	712	642	522	519
50%	375	451	582	720	835	937	973	867	659	604	479	445
60%	302	411	477	619	774	899	876	743	594	549	436	337
70%	226	286	399	540	671	820	802	708	545	489	331	306
80%	119	181	239	408	598	695	726	603	481	427	290	196
90%	55	57	143	341	415	534	570	524	406	320	182	57
Long Term												
Full Simulation Period[b]	410	467	547	689	805	885	890	813	664	598	471	434
Water Year Types[c]												
Wet (32%)	502	578	649	809	939	1,014	1,032	989	844	794	684	674
Above Normal (16%)	355	444	556	703	847	925	938	857	633	582	526	521
Below Normal (13%)	504	566	652	737	823	899	860	690	470	480	420	343
Dry (24%)	348	396	487	624	727	836	845	773	667	574	359	289
Critical (15%)	283	279	317	482	581	630	631	563	482	336	182	147

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-46	17	-86	-18	0	0	0	0	-49	-68	-37	-27
20%	40	36	-88	-99	0	0	0	-43	-72	-16	51	1
30%	0	-42	-101	-213	-65	0	0	-53	-103	-8	8	20
40%	-25	-67	-53	-175	-145	-12	-35	-77	-138	-39	20	25
50%	-78	-23	-40	-162	-232	-130	-94	-107	-167	-47	15	-20
60%	-50	5	-10	-181	-292	-168	-191	-205	-185	-79	17	-76
70%	13	17	-41	-124	-282	-247	-224	-226	-193	-115	-63	58
80%	-14	15	-49	-177	-252	-335	-268	-280	-221	-112	-54	11
90%	0	-19	13	-145	-325	-408	-351	-276	-237	-154	-25	-60
Long Term												
Full Simulation Period[b]	-13	-8	-43	-135	-161	-140	-124	-136	-140	-59	-4	2
Water Year Types[c]												
Wet (32%)	-15	-17	-107	-151	-110	-52	-34	-41	-54	-15	24	9
Above Normal (16%)	-22	-18	-62	-195	-163	-124	-105	-100	-120	-52	31	56
Below Normal (13%)	-54	-49	-53	-204	-209	-160	-162	-230	-314	-191	-5	-16
Dry (24%)	24	45	57	-68	-173	-193	-167	-178	-153	-32	-45	-40
Critical (15%)	-22	-24	-41	-87	-205	-242	-233	-224	-169	-87	-31	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 C-5-3-6. San Luis Reservoir (SWP), 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%	837	847	998	1,067	1,067	1,067	1,067	1,067	1,001	925	811	783
20%	623	695	894	1,067	1,067	1,067	1,067	1,063	911	769	571	617
30%	552	660	803	1,067	1,067	1,067	1,067	1,035	886	713	534	544
40%	482	579	680	977	1,067	1,067	1,067	1,002	849	681	501	494
50%	452	474	622	882	1,067	1,067	1,067	974	826	651	464	465
60%	352	406	487	800	1,066	1,067	1,067	948	779	628	419	414
70%	212	268	439	664	953	1,067	1,027	934	739	604	394	248
80%	133	166	287	585	850	1,029	994	883	702	539	344	186
90%	55	77	130	486	740	941	921	800	643	474	207	117
Long Term												
Full Simulation Period[b]	422	475	589	825	966	1,025	1,014	949	805	657	475	433
Water Year Types[c]												
Wet (32%)	517	595	756	960	1,049	1,066	1,066	1,030	898	809	661	665
Above Normal (16%)	377	462	618	898	1,010	1,049	1,043	957	753	635	495	465
Below Normal (13%)	558	616	705	941	1,032	1,060	1,023	920	784	671	426	359
Dry (24%)	324	352	430	692	901	1,029	1,012	951	820	606	404	329
Critical (15%)	306	304	358	569	786	872	863	787	651	422	213	137

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%	512	520	706	913	1,065	1,067	935	733	620	580	548	561
20%	431	476	577	750	867	1,013	899	664	489	492	478	500
30%	373	369	500	647	806	943	827	630	422	448	415	450
40%	334	318	463	573	724	874	764	566	381	379	358	403
50%	290	235	363	496	666	803	734	507	332	325	307	347
60%	201	194	285	432	618	750	639	460	289	296	251	271
70%	144	116	234	385	525	672	583	424	273	270	194	204
80%	66	66	176	344	446	583	552	369	233	217	113	84
90%	55	55	74	249	378	477	442	342	178	181	84	55
Long Term												
Full Simulation Period[b]	285	283	387	543	678	797	710	533	374	370	318	333
Water Year Types[c]												
Wet (32%)	347	350	433	594	758	912	805	609	459	466	475	513
Above Normal (16%)	275	276	416	579	712	842	727	505	306	309	329	394
Below Normal (13%)	315	286	407	533	641	749	649	451	235	258	255	260
Dry (24%)	249	258	375	530	652	760	690	532	398	420	262	243
Critical (15%)	193	187	256	428	546	603	572	476	350	249	120	95

Alternative 5 minus 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%	-325	-327	-292	-154	-2	0	-132	-334	-381	-345	-263	-223
20%	-192	-219	-317	-317	-200	-54	-168	-399	-421	-277	-93	-117
30%	-179	-291	-302	-420	-261	-124	-240	-405	-464	-265	-118	-94
40%	-148	-261	-217	-404	-343	-193	-303	-436	-468	-302	-144	-91
50%	-163	-239	-259	-386	-401	-264	-333	-467	-495	-326	-157	-117
60%	-151	-212	-202	-368	-448	-317	-428	-488	-490	-332	-168	-143
70%	-68	-152	-205	-279	-428	-395	-444	-509	-466	-333	-200	-44
80%	-67	-100	-111	-241	-404	-447	-442	-514	-469	-323	-231	-101
90%	0	-22	-56	-237	-361	-465	-479	-458	-465	-294	-124	-62
Long Term												
Full Simulation Period[b]	-137	-192	-203	-281	-288	-228	-304	-416	-431	-286	-156	-100
Water Year Types[c]												
Wet (32%)	-170	-245	-322	-366	-292	-153	-261	-421	-439	-342	-186	-152
Above Normal (16%)	-102	-187	-202	-319	-298	-207	-315	-452	-447	-326	-165	-71
Below Normal (13%)	-242	-330	-299	-408	-391	-310	-373	-469	-549	-412	-170	-98
Dry (24%)	-75	-94	-55	-162	-249	-269	-323	-419	-422	-186	-142	-86
Critical (15%)	-113	-116	-101	-141	-240	-269	-292	-311	-302	-173	-93	-42

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

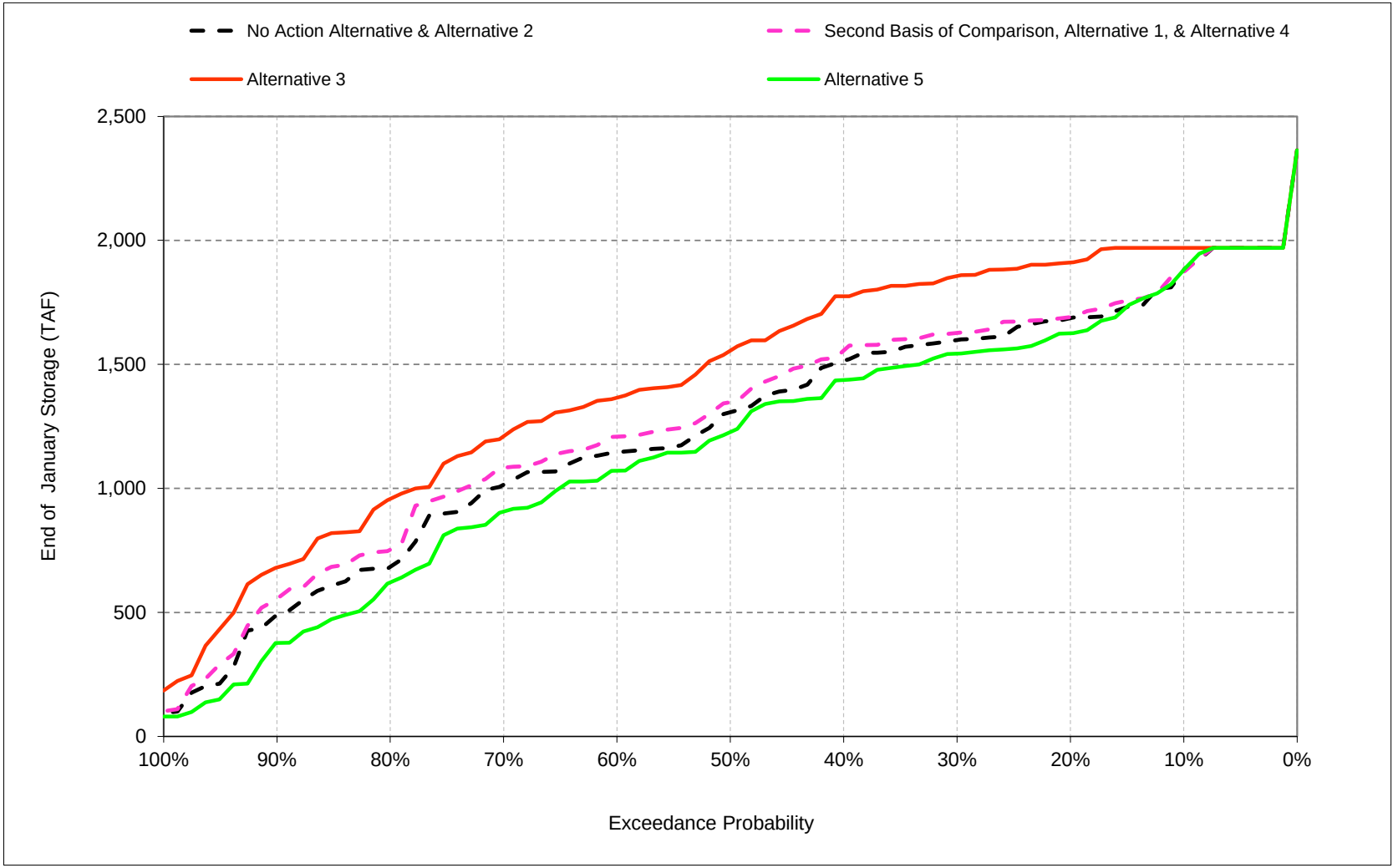
b Based on the 82-year simulation period.

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.

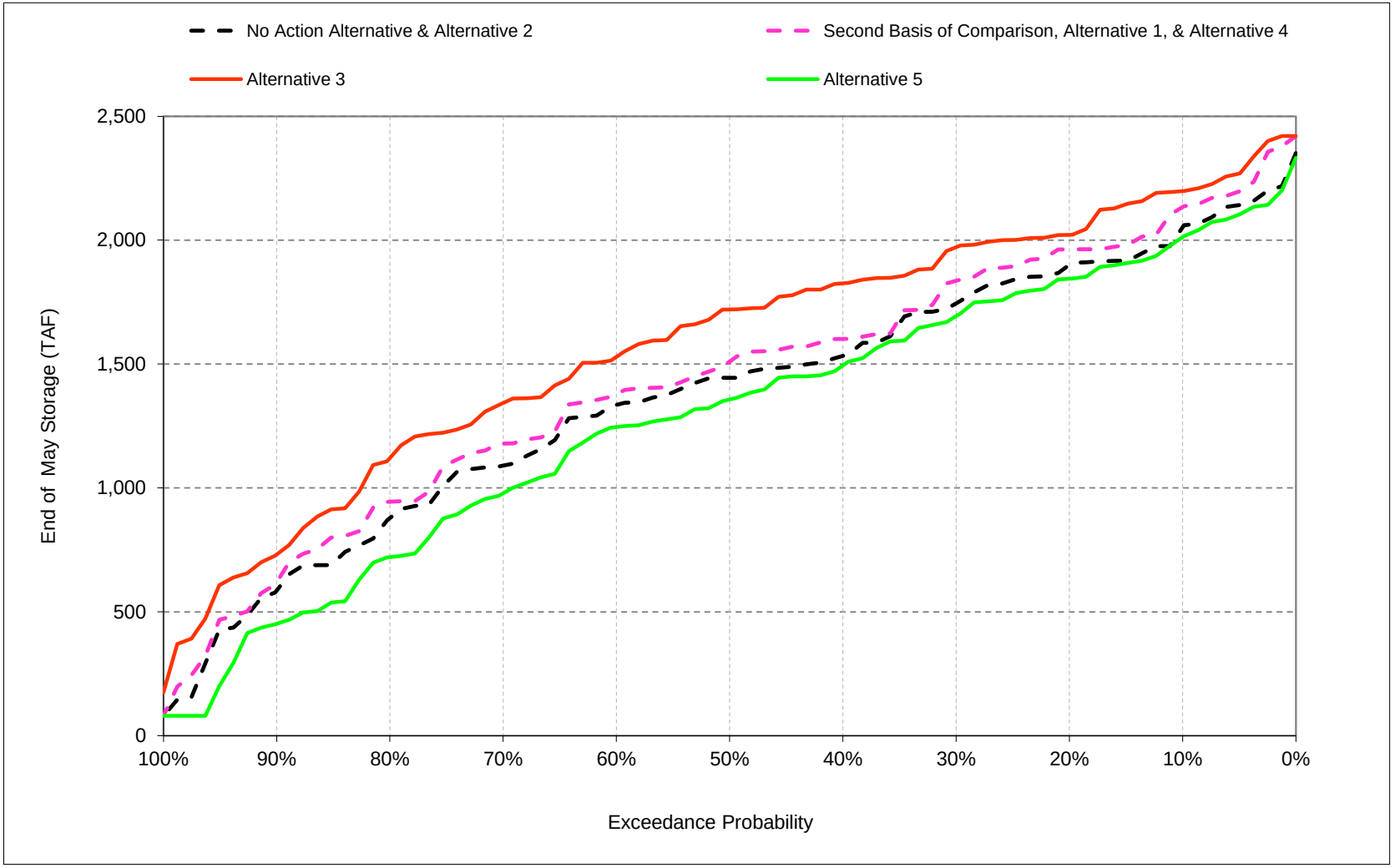
C.6. New Melones Storage

Figure C-6-1. New Melones Reservoir, End of January Storage



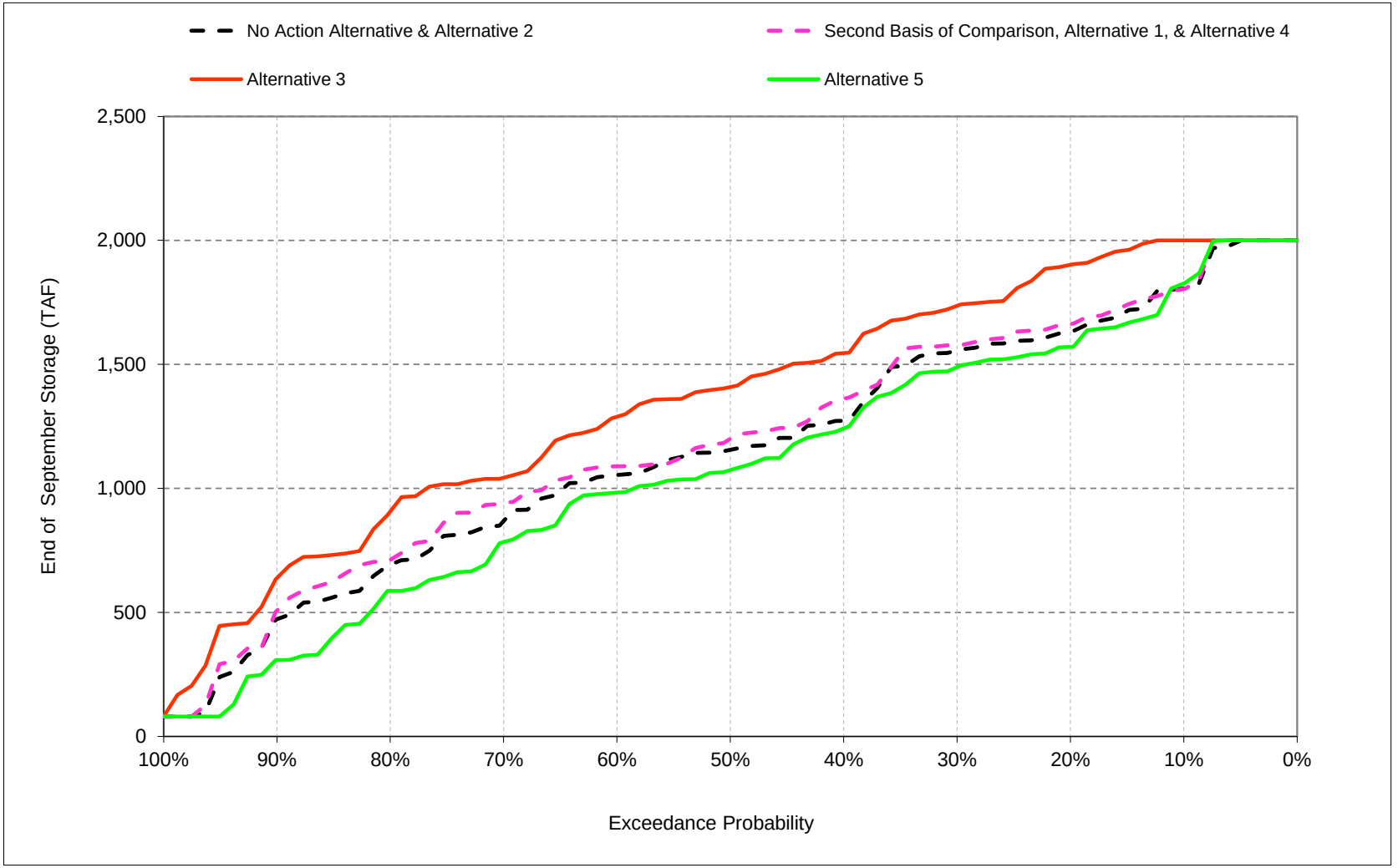
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-6-2. New Melones Reservoir, End of May Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-6-3. New Melones Reservoir, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-6-1. New Melones Reservoir, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	35	22	4	-5	21	50	71	81	-4	-2	0	-1
20%	45	24	19	4	79	129	50	62	7	33	28	30
30%	42	48	59	29	11	15	65	92	51	36	31	21
40%	94	98	40	42	27	58	56	68	80	77	82	89
50%	79	84	95	40	36	7	23	66	75	74	68	45
60%	64	51	44	63	60	68	95	44	41	25	32	35
70%	75	77	54	69	61	42	66	89	59	69	72	71
80%	66	54	46	69	91	124	79	66	31	28	25	19
90%	77	82	76	67	126	94	34	33	67	53	40	35
Long Term												
Full Simulation Period[b]	59	53	46	42	40	48	64	60	38	37	36	35
Water Year Types[c]												
Wet (32%)	64	56	49	44	43	70	75	84	25	27	30	28
Above Normal (16%)	62	56	50	46	43	48	68	59	49	46	44	42
Below Normal (13%)	69	61	52	46	40	41	71	63	55	54	52	51
Dry (24%)	55	49	43	40	35	33	56	45	44	43	42	42
Critical (15%)	44	40	37	36	35	34	45	31	31	23	18	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 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 C-6-2. 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 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 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%	202	194	147	90	39	50	117	146	209	231	233	195
20%	289	275	266	224	202	227	155	121	277	257	264	269
30%	196	192	234	259	238	246	224	227	197	170	180	180
40%	311	322	236	260	257	266	245	293	256	264	268	273
50%	306	288	286	248	224	185	213	276	283	279	271	253
60%	284	274	238	220	228	221	210	194	249	234	233	235
70%	167	162	201	195	251	213	185	252	188	186	182	175
80%	230	204	235	273	285	290	221	243	198	193	205	214
90%	205	212	206	193	239	234	159	145	206	190	175	167
Long Term												
Full Simulation Period[b]	214	209	202	199	186	193	197	206	213	206	200	194
Water Year Types[c]												
Wet (32%)	183	177	165	158	126	147	149	172	178	168	161	152
Above Normal (16%)	239	235	231	228	213	213	220	229	253	255	252	250
Below Normal (13%)	236	231	224	219	207	212	224	234	239	233	228	224
Dry (24%)	232	226	220	220	222	221	226	228	232	228	223	221
Critical (15%)	205	201	198	201	204	204	202	197	193	177	162	154

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 C-6-3. New Melones Reservoir, End of Month Storage

No Action Alternative

Statistic	End of Month Storage (TAF)											
	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 5

Statistic	End of Month Storage (TAF)											
	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 No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1	0	8	1	18	-11	-37	-40	42	35	31	21
20%	-24	-44	-46	-61	13	-5	-82	-56	-60	-58	-60	-62
30%	-65	-75	-65	-54	-56	-57	-7	-52	-64	-73	-74	-67
40%	-22	-22	-85	-77	-72	-45	-81	-39	-34	-28	-36	-31
50%	-81	-69	-11	-80	1	-80	-68	-87	-104	-93	-89	-82
60%	-48	-46	-57	-74	-65	-112	-119	-89	-59	-69	-70	-71
70%	-116	-109	-131	-108	-100	-84	-74	-112	-96	-94	-90	-85
80%	-92	-105	-64	-63	-112	-112	-184	-157	-111	-122	-116	-106
90%	-145	-137	-141	-111	-112	-120	-188	-134	-138	-144	-158	-164
Long Term												
Full Simulation Period[b]	-69	-69	-68	-68	-67	-64	-73	-86	-82	-79	-75	-73
Water Year Types[c]												
Wet (32%)	-70	-69	-65	-66	-64	-56	-54	-65	-62	-57	-51	-49
Above Normal (16%)	-46	-46	-46	-46	-46	-46	-51	-71	-71	-70	-70	-70
Below Normal (13%)	-84	-84	-84	-84	-84	-84	-93	-107	-106	-105	-105	-104
Dry (24%)	-77	-76	-76	-76	-75	-74	-88	-100	-97	-94	-91	-89
Critical (15%)	-66	-64	-68	-66	-64	-65	-95	-105	-93	-84	-76	-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 C-6-4. New Melones Reservoir, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-35	-22	-4	5	-21	-50	-71	-81	4	2	0	1
20%	-45	-24	-19	-4	-79	-129	-50	-62	-7	-33	-28	-30
30%	-42	-48	-59	-29	-11	-15	-65	-92	-51	-36	-31	-21
40%	-94	-98	-40	-42	-27	-58	-56	-68	-80	-77	-82	-89
50%	-79	-84	-95	-40	-36	-7	-23	-66	-75	-74	-68	-45
60%	-64	-51	-44	-63	-60	-68	-95	-44	-41	-25	-32	-35
70%	-75	-77	-54	-69	-61	-42	-66	-89	-59	-69	-72	-71
80%	-66	-54	-46	-69	-91	-124	-79	-66	-31	-28	-25	-19
90%	-77	-82	-76	-67	-126	-94	-34	-33	-67	-53	-40	-35
Long Term												
Full Simulation Period[b]	-59	-53	-46	-42	-40	-48	-64	-60	-38	-37	-36	-35
Water Year Types[c]												
Wet (32%)	-64	-56	-49	-44	-43	-70	-75	-84	-25	-27	-30	-28
Above Normal (16%)	-62	-56	-50	-46	-43	-48	-68	-59	-49	-46	-44	-42
Below Normal (13%)	-69	-61	-52	-46	-40	-41	-71	-63	-55	-54	-52	-51
Dry (24%)	-55	-49	-43	-40	-35	-33	-56	-45	-44	-43	-42	-42
Critical (15%)	-44	-40	-37	-36	-35	-34	-45	-31	-31	-23	-18	-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.

Table C-6-5. 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 (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	167	172	143	95	18	0	45	65	213	233	234	195
20%	244	251	247	220	123	98	105	59	270	224	236	239
30%	154	144	175	229	228	232	159	135	147	134	149	159
40%	217	224	196	219	230	209	189	225	176	187	186	184
50%	227	205	191	208	188	178	190	210	208	205	202	209
60%	220	223	194	157	168	153	115	150	208	209	201	200
70%	92	85	147	126	190	170	119	164	129	116	110	104
80%	164	150	190	205	194	167	142	176	168	165	180	195
90%	127	130	131	126	113	139	126	112	138	137	134	132
Long Term												
Full Simulation Period[b]	155	156	155	156	146	144	132	146	175	169	163	159
Water Year Types[c]												
Wet (32%)	119	121	116	114	83	77	73	88	153	141	131	124
Above Normal (16%)	177	179	181	181	170	165	153	170	204	208	207	208
Below Normal (13%)	167	170	172	173	167	170	153	170	184	179	175	174
Dry (24%)	177	177	177	181	187	188	170	183	188	185	181	179
Critical (15%)	161	161	162	165	170	170	157	166	162	155	144	137

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 C-6-6. New Melones Reservoir, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	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

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-36	-22	4	6	-3	-61	-108	-122	46	37	31	21
20%	-69	-67	-65	-65	-66	-134	-132	-118	-68	-90	-88	-92
30%	-107	-123	-124	-83	-67	-72	-71	-143	-115	-109	-104	-88
40%	-116	-120	-126	-119	-99	-103	-137	-108	-114	-105	-118	-120
50%	-161	-153	-106	-121	-35	-86	-90	-154	-178	-167	-158	-127
60%	-112	-97	-102	-137	-125	-180	-214	-133	-100	-94	-102	-106
70%	-190	-187	-185	-177	-161	-126	-140	-201	-156	-163	-162	-156
80%	-157	-159	-109	-132	-203	-235	-263	-224	-142	-150	-141	-125
90%	-222	-219	-216	-178	-238	-215	-221	-167	-206	-196	-198	-199
Long Term												
Full Simulation Period[b]	-128	-121	-114	-110	-106	-112	-137	-146	-121	-115	-111	-108
Water Year Types[c]												
Wet (32%)	-134	-125	-114	-110	-108	-126	-129	-149	-88	-84	-81	-77
Above Normal (16%)	-108	-102	-96	-92	-89	-94	-118	-130	-120	-117	-114	-112
Below Normal (13%)	-154	-145	-137	-130	-124	-125	-164	-170	-161	-159	-157	-155
Dry (24%)	-132	-125	-119	-116	-110	-107	-144	-145	-141	-136	-133	-131
Critical (15%)	-109	-104	-104	-102	-99	-99	-140	-136	-123	-107	-95	-90

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

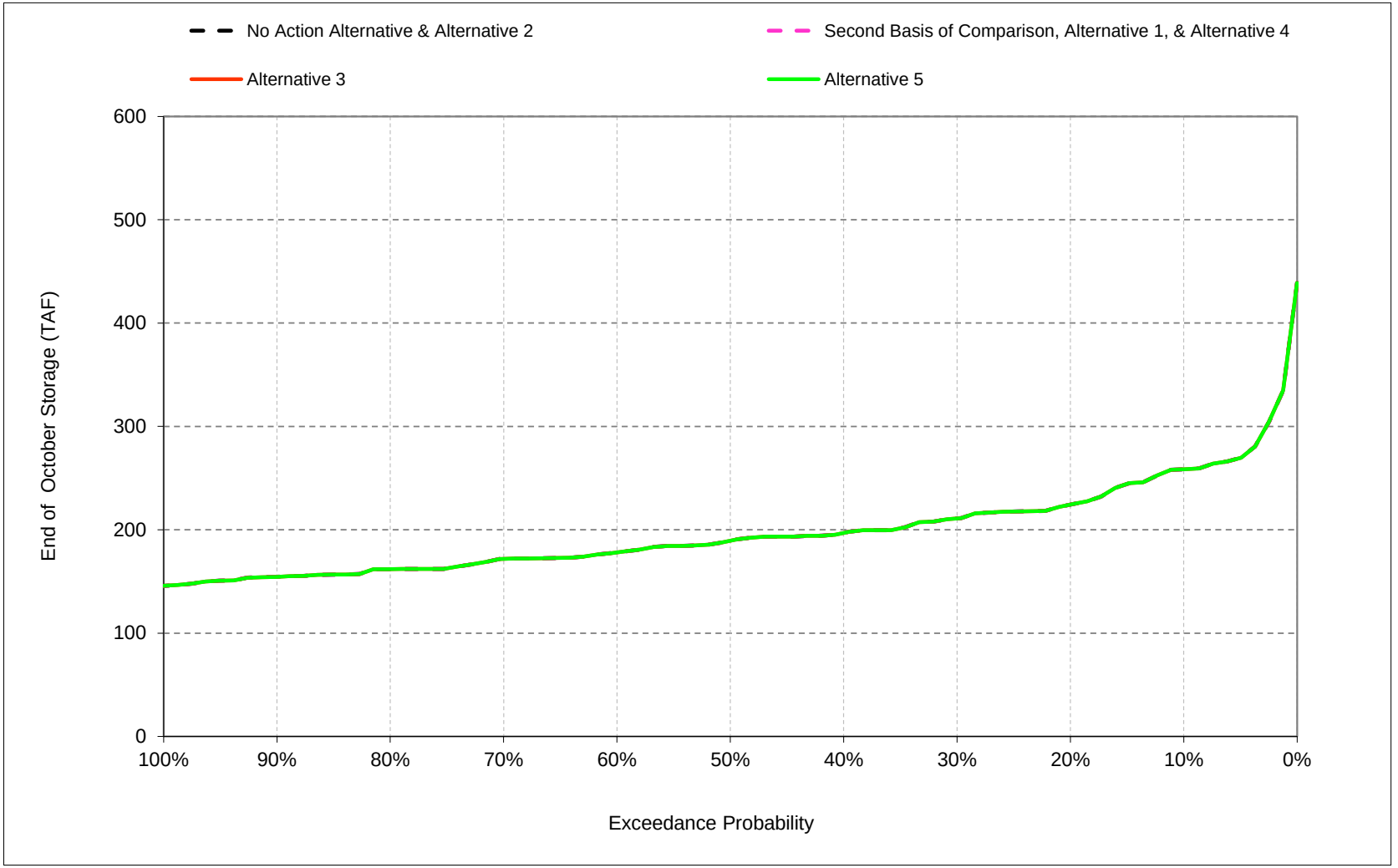
b Based on the 82-year simulation period.

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.

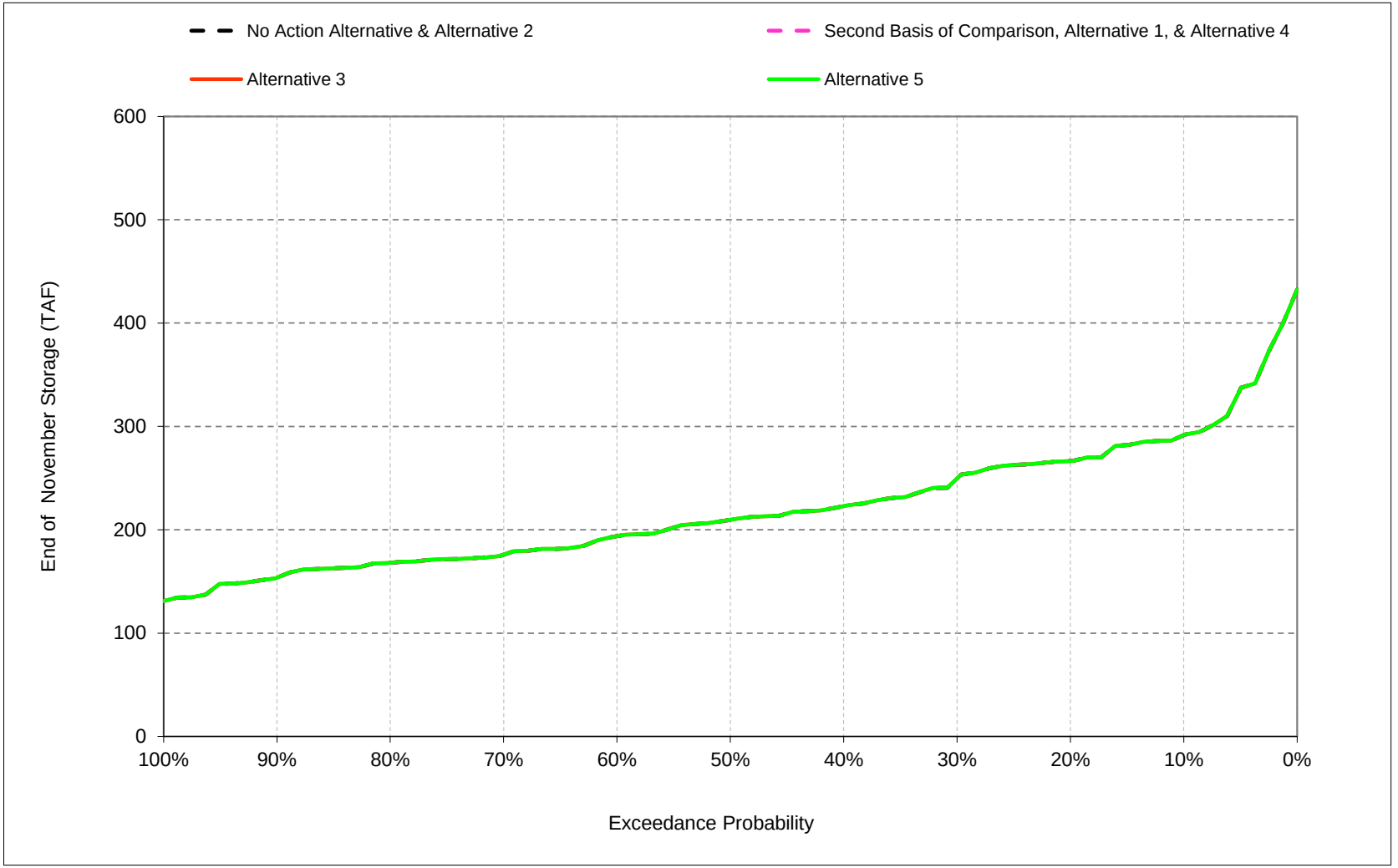
C.7. Millerton Storage

Figure C-7-1. Millerton Lake, End of October Storage



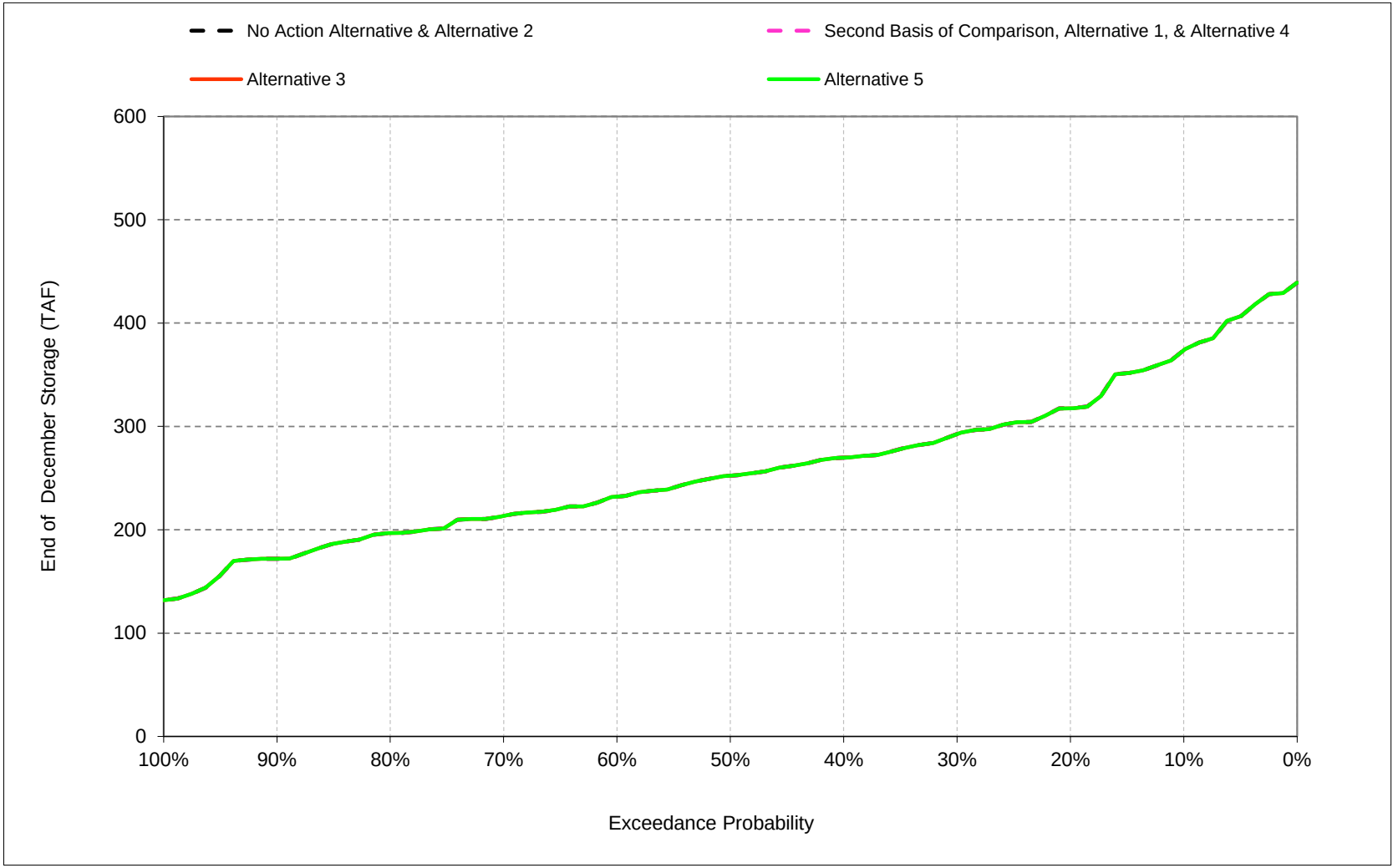
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-2. Millerton Lake, End of November Storage



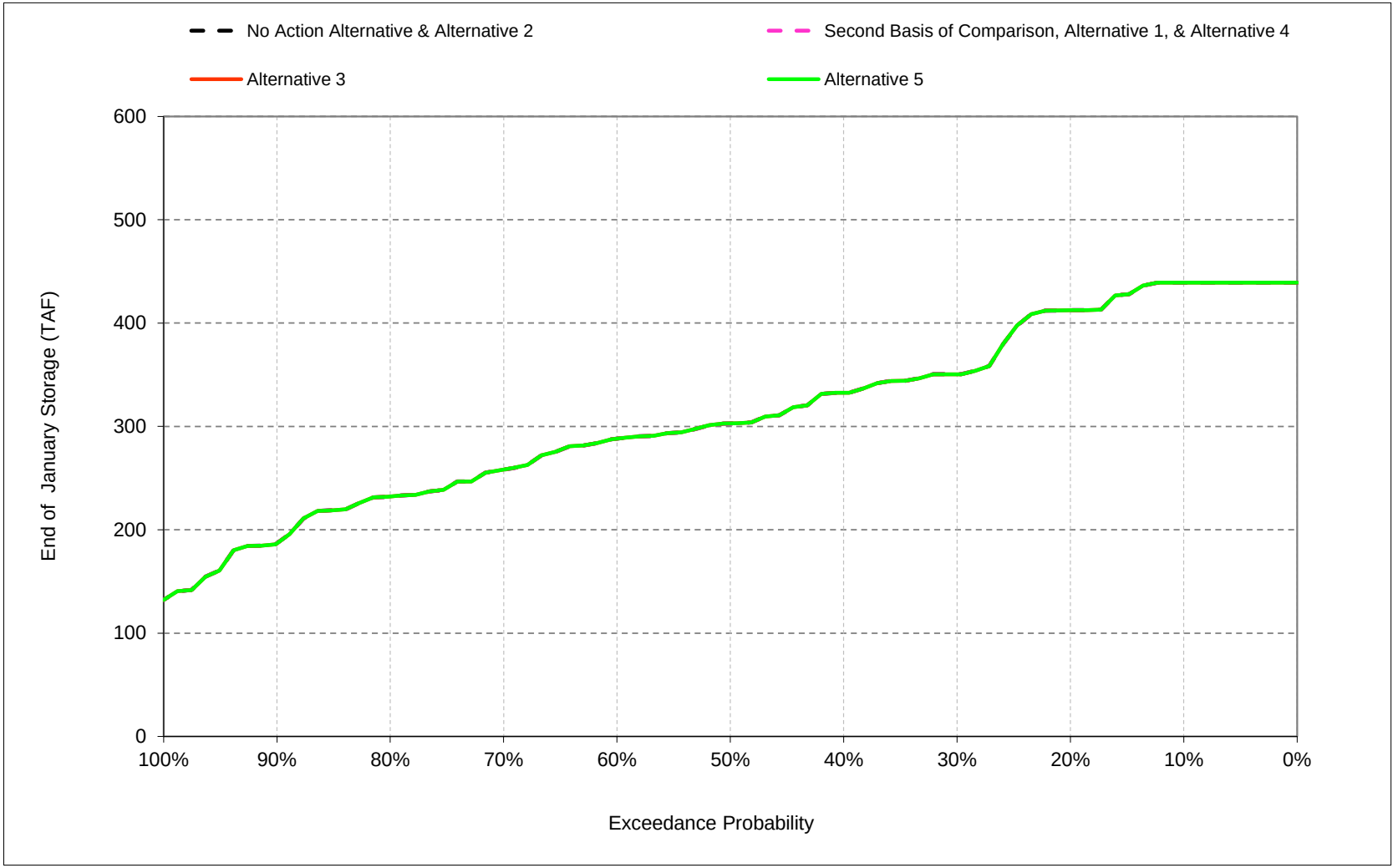
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-3. Millerton Lake, End of December Storage



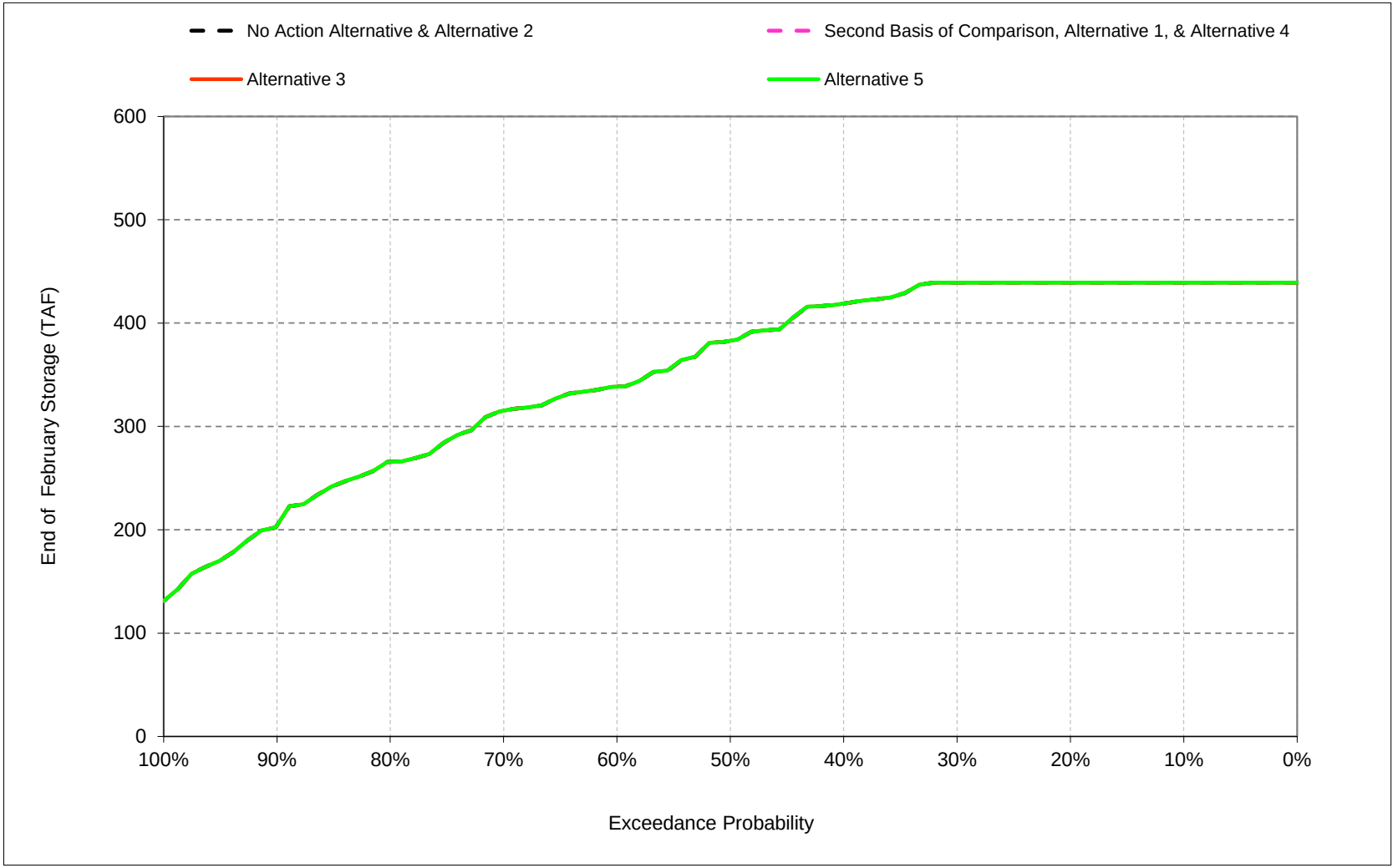
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-4. Millerton Lake, End of January Storage



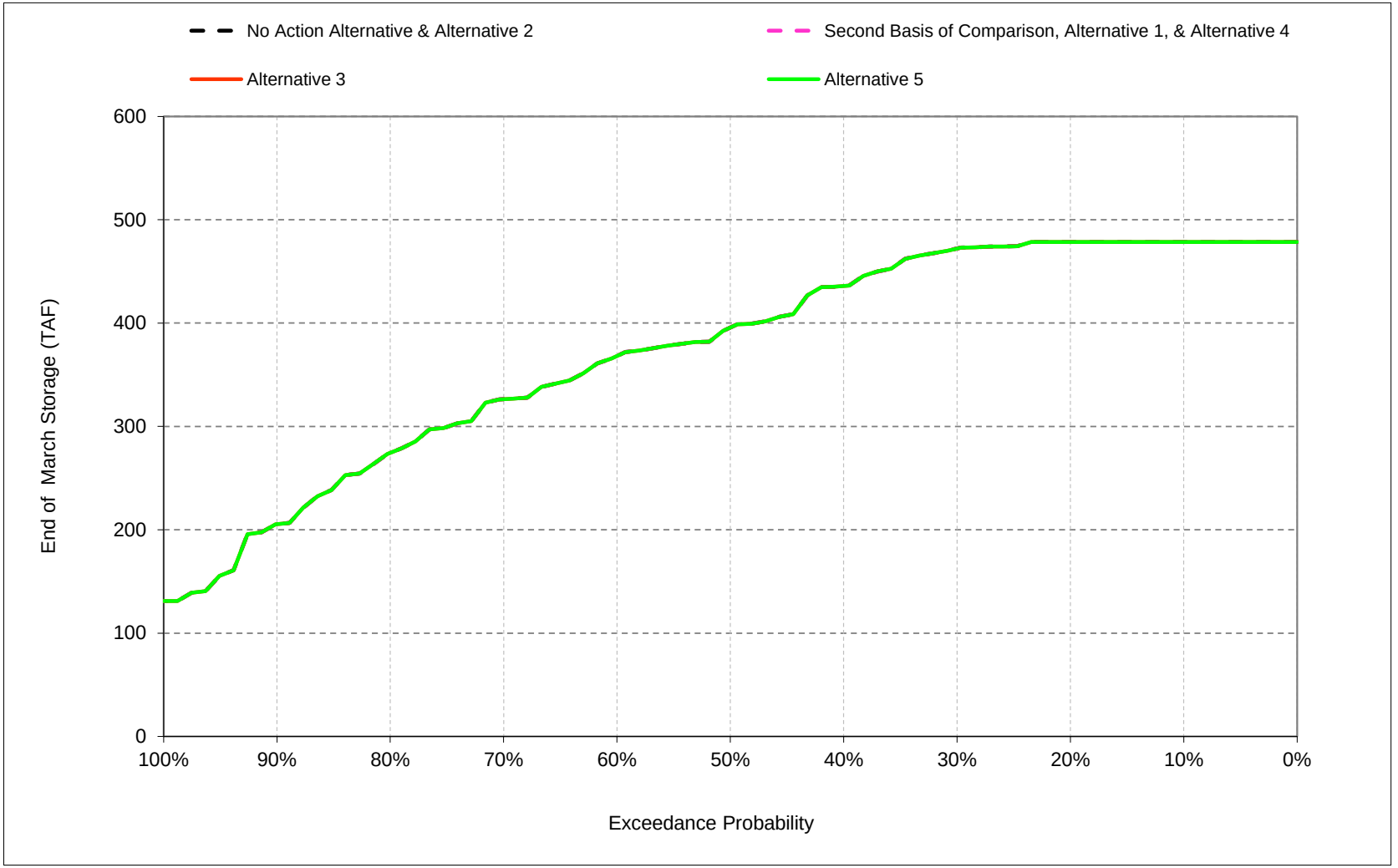
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-5. Millerton Lake, End of February Storage



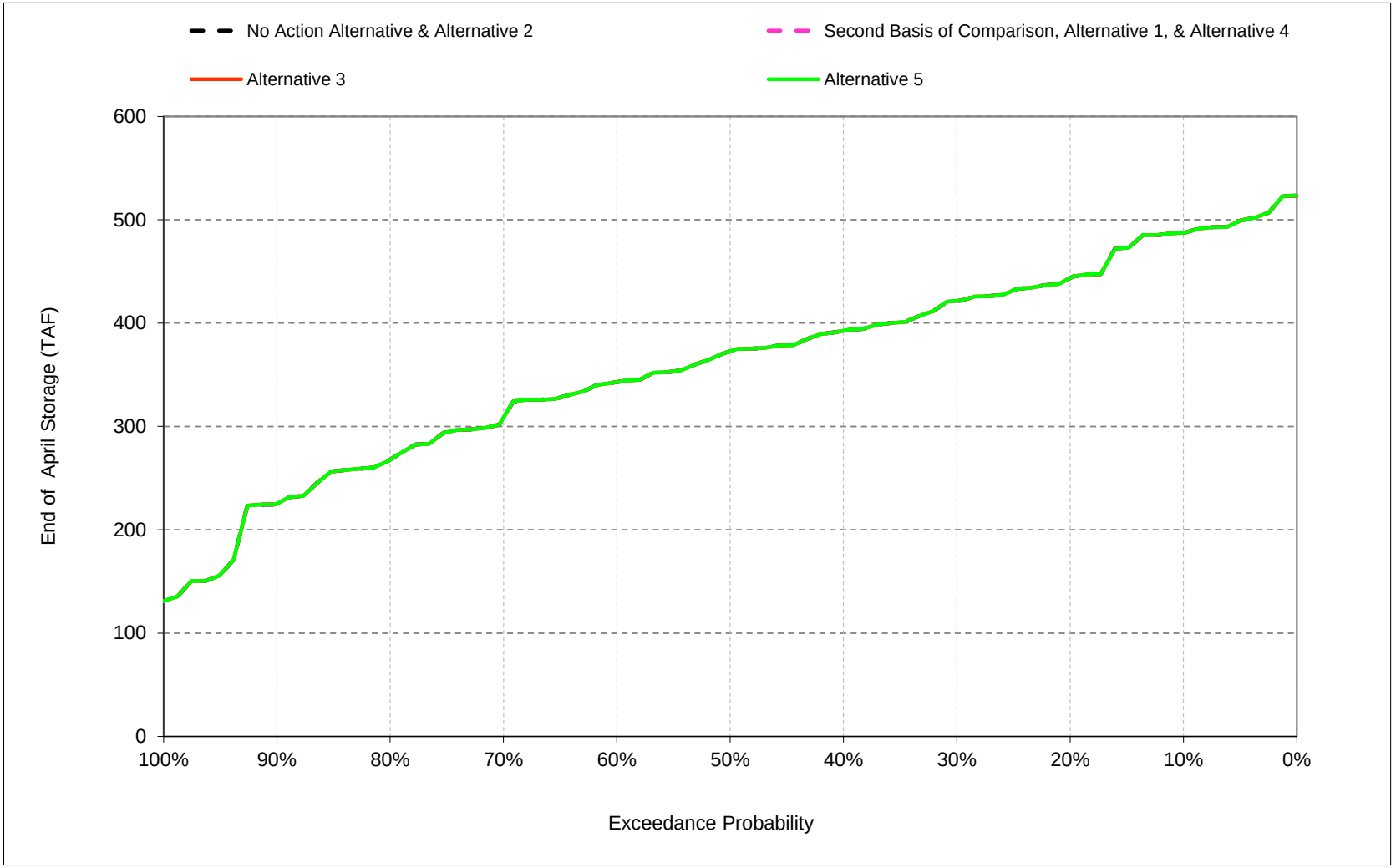
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-6. Millerton Lake, End of March Storage



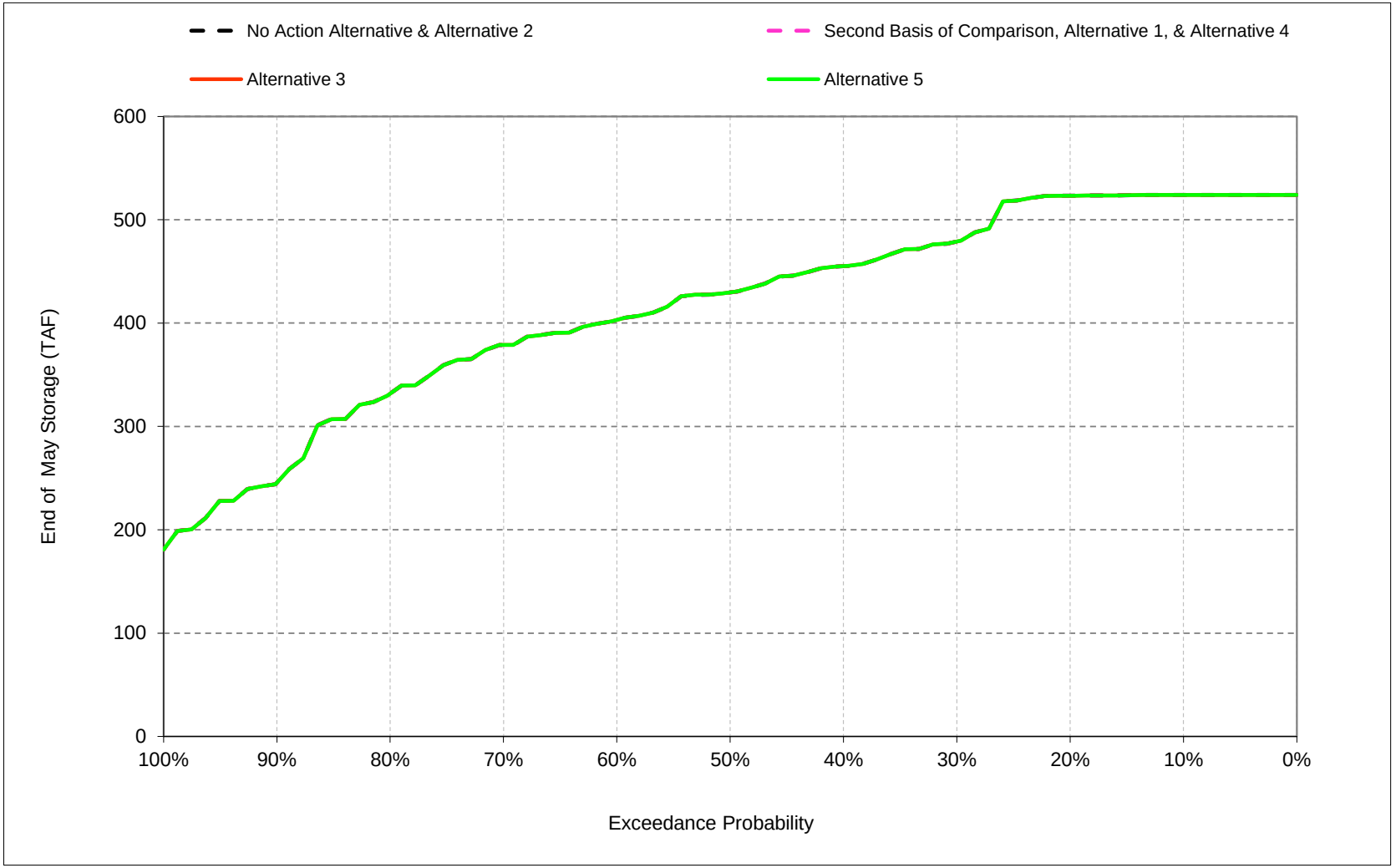
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-7. Millerton Lake, End of April Storage



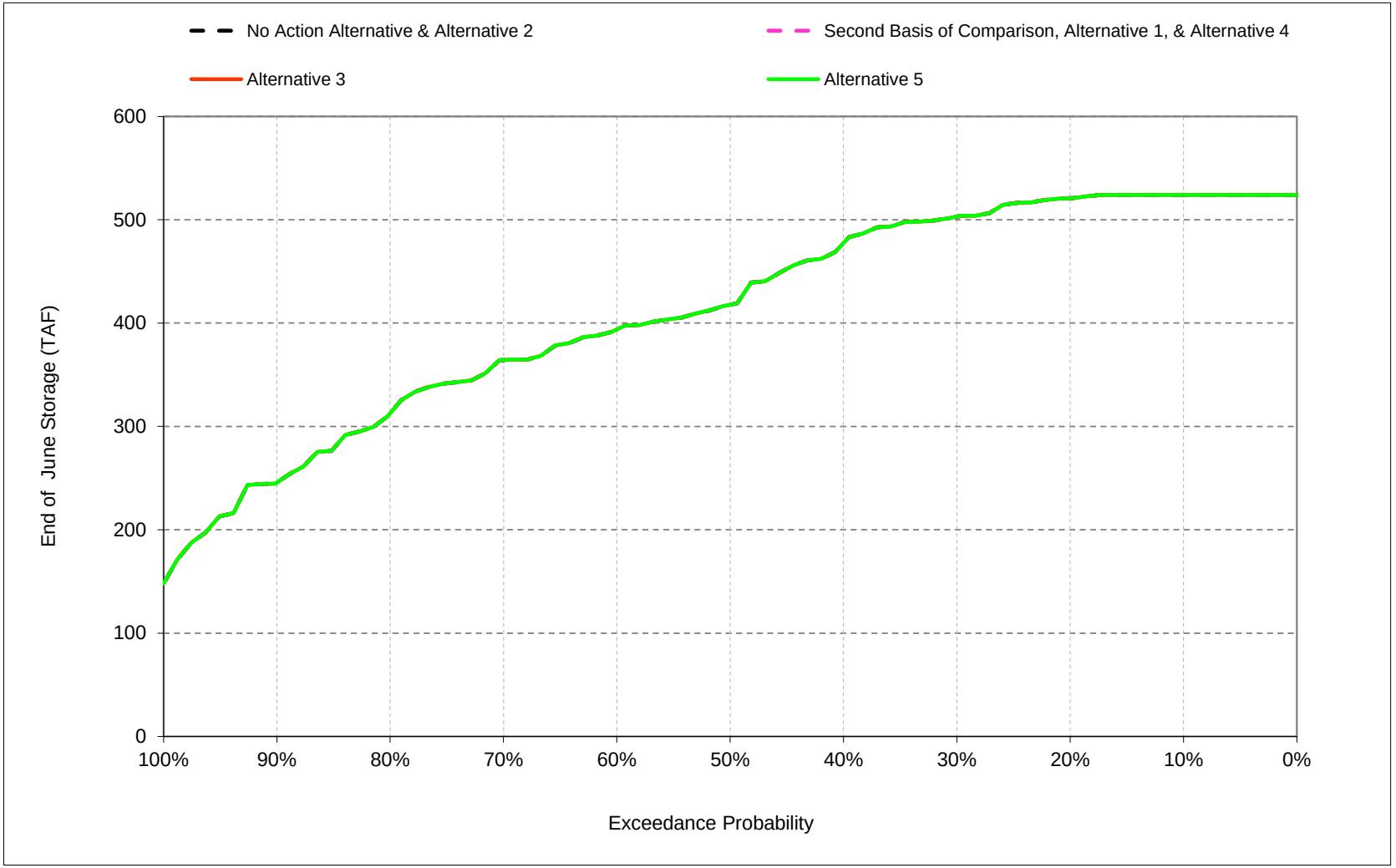
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-8. Millerton Lake, End of May Storage



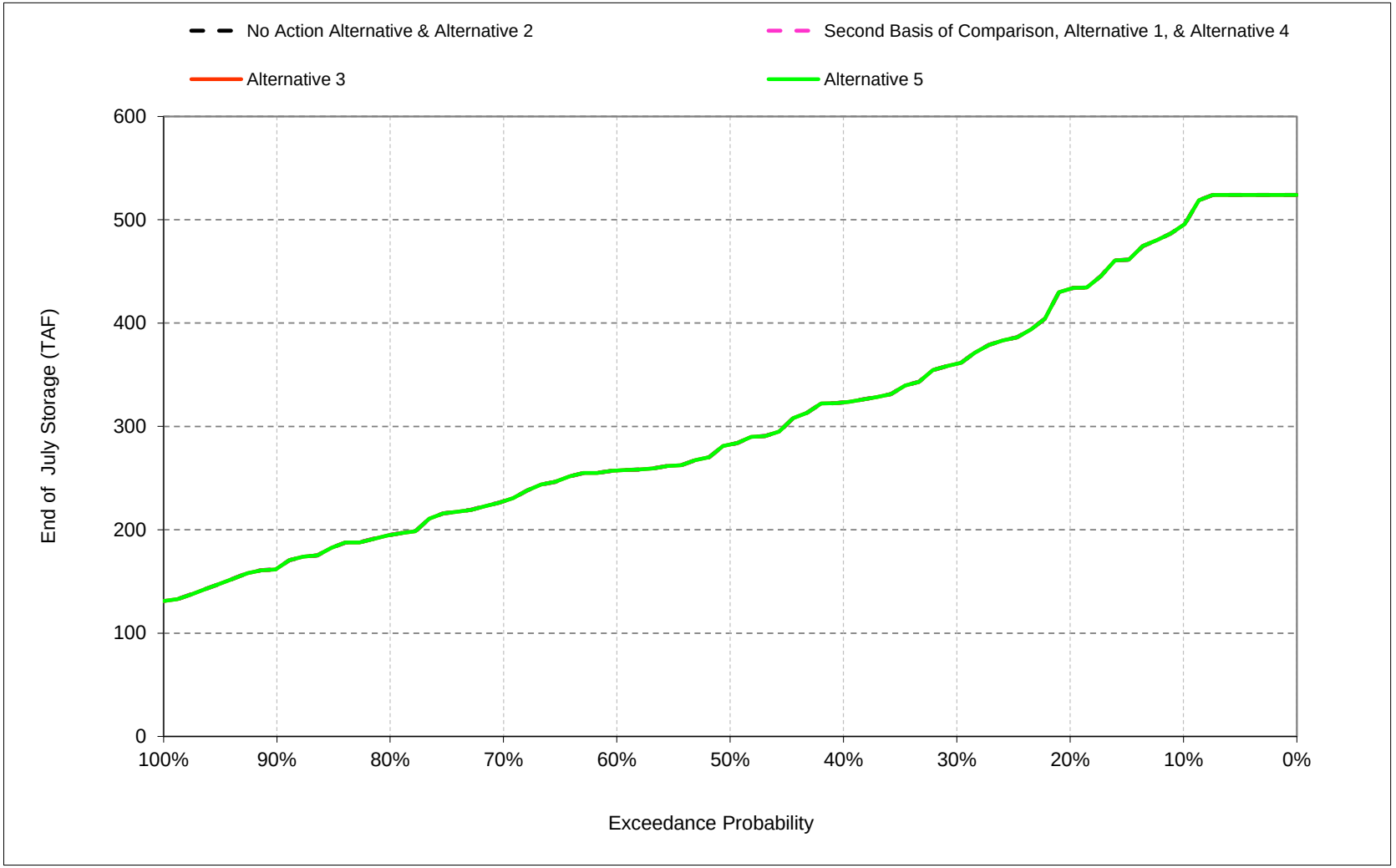
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-9. Millerton Lake, End of June Storage



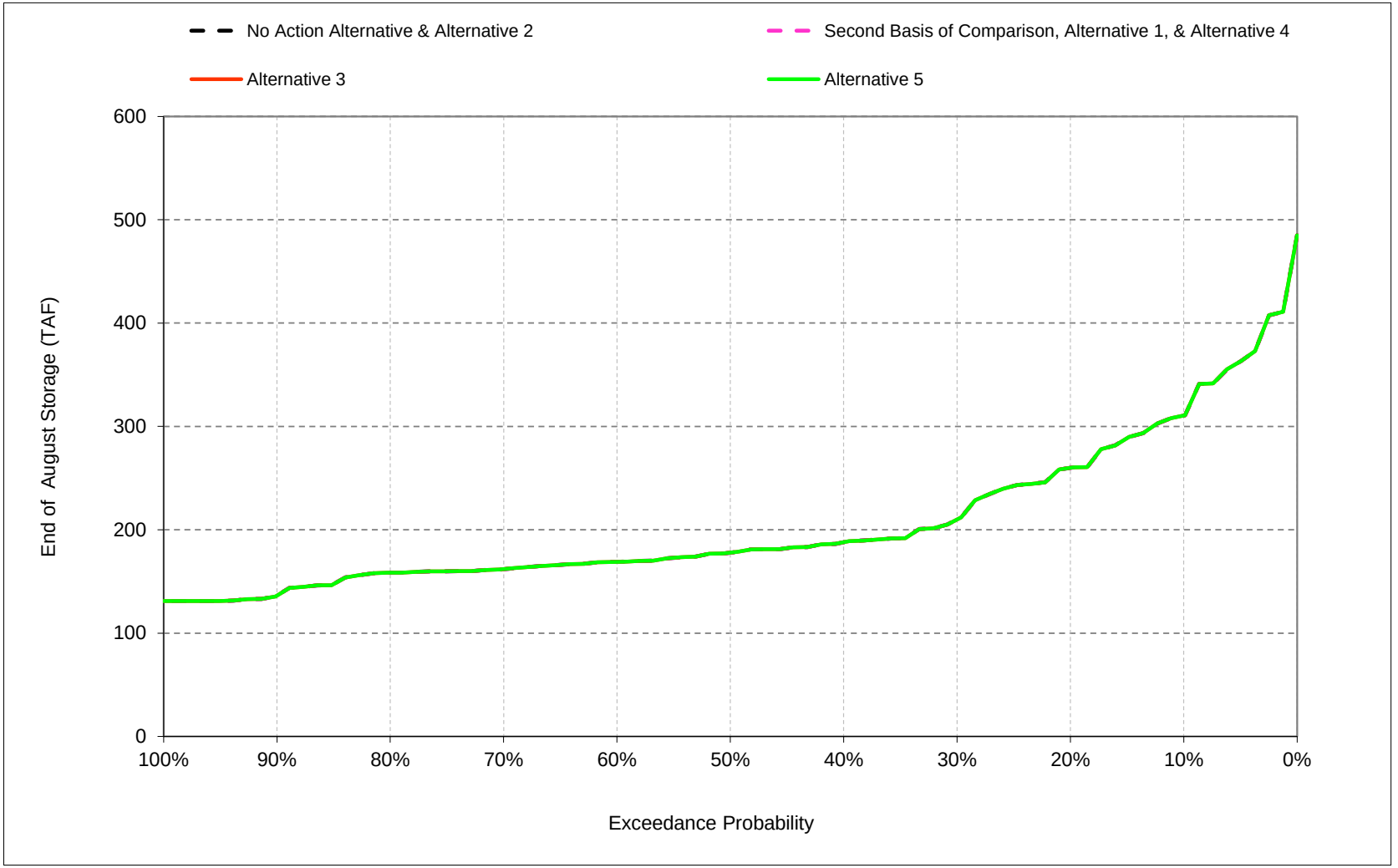
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-10. Millerton Lake, End of July Storage



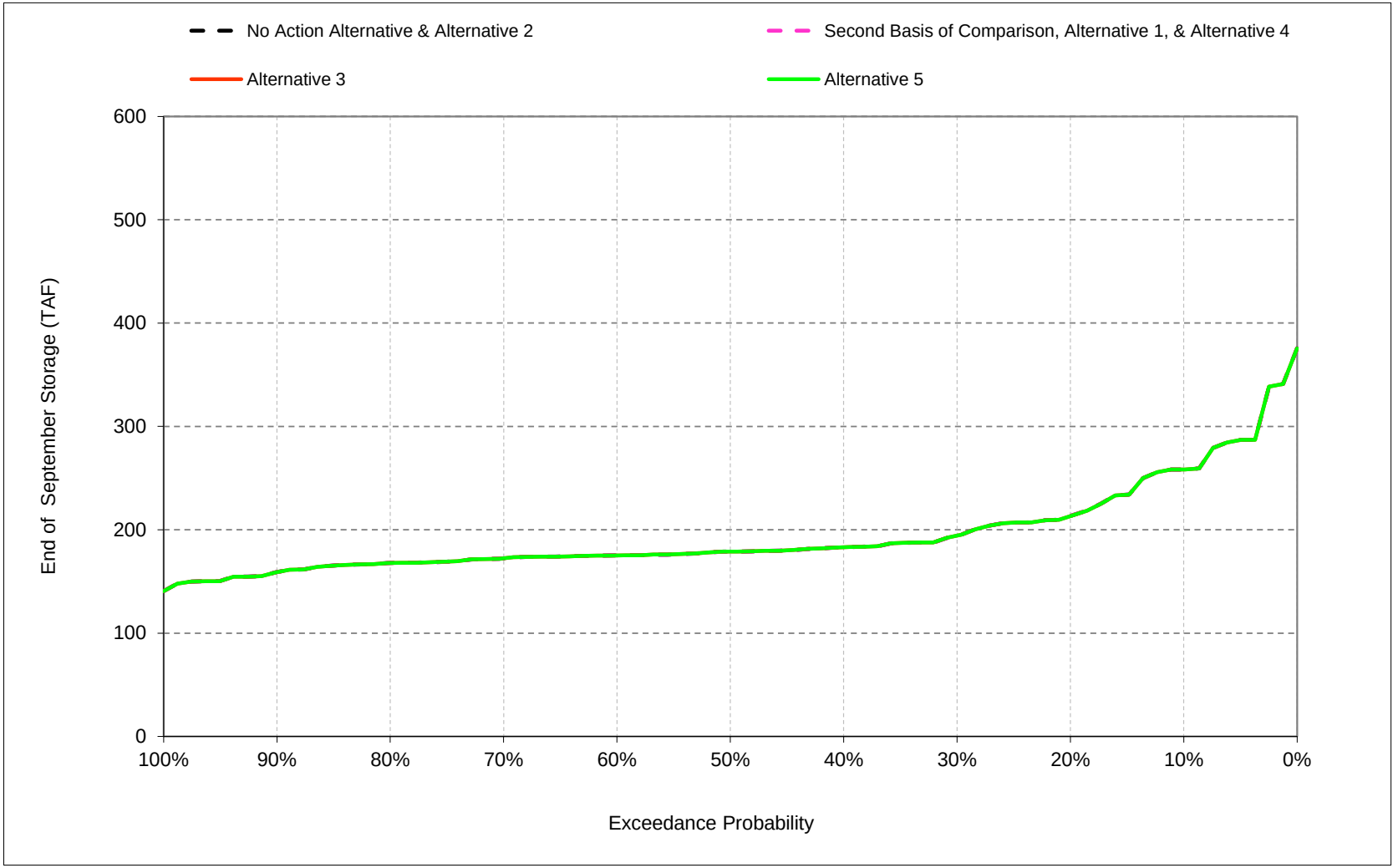
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-7-11. Millerton Lake, End of August Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-7-12. Millerton Lake, End of September Storage



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-7-1. Millerton Lake, 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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 1 minus 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%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 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 C-7-2. Millerton Lake, 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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 3 minus 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%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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.

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No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 5

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 5 minus No Action Alternative

Statistic	End of Month Storage (TAF)											
	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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-7-4. Millerton Lake, End of Month Storage

Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

No Action Alternative

Statistic	End of Month Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Storage (TAF)											
	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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	**0**	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	**0**	0	0	0	0	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 C-7-5. Millerton Lake, 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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 3 minus 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%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-7-6. Millerton Lake, 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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

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%	258	292	374	439	439	479	488	524	524	495	311	258
20%	224	267	318	412	439	479	444	523	521	433	260	213
30%	211	250	293	351	439	472	421	479	503	361	210	194
40%	197	223	270	333	419	436	393	455	477	323	188	183
50%	189	210	252	303	383	396	373	430	418	283	178	179
60%	178	194	232	288	339	368	343	403	394	257	169	175
70%	172	176	213	258	315	326	308	379	364	228	162	172
80%	162	168	197	232	266	274	268	332	313	195	158	168
90%	155	154	172	187	204	205	225	245	246	163	136	159
Long Term												
Full Simulation Period[b]	199	220	261	310	353	372	358	415	411	307	207	195
Water Year Types[c]												
Wet (23%)	205	228	306	382	426	448	356	426	509	464	312	256
Above Normal (24%)	202	226	270	340	417	447	403	491	496	355	210	184
Below Normal (10%)	192	227	253	297	354	360	348	401	393	283	185	180
Dry (16%)	213	238	266	302	327	343	386	426	372	231	162	181
Critical (27%)	185	194	212	231	247	260	306	334	278	182	148	168

Alternative 5 minus 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%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	0	0

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

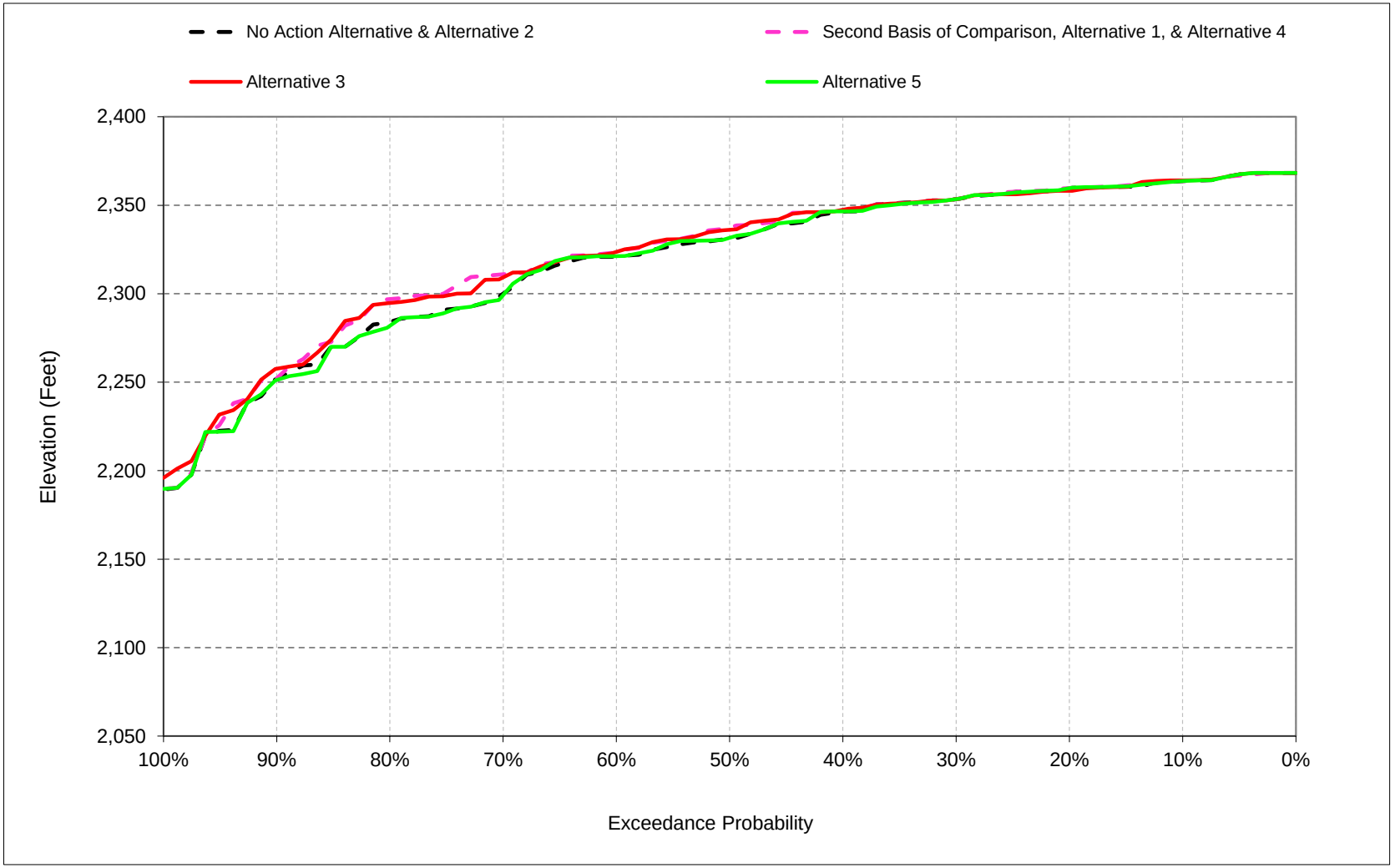
b Based on the 82-year simulation period.

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.

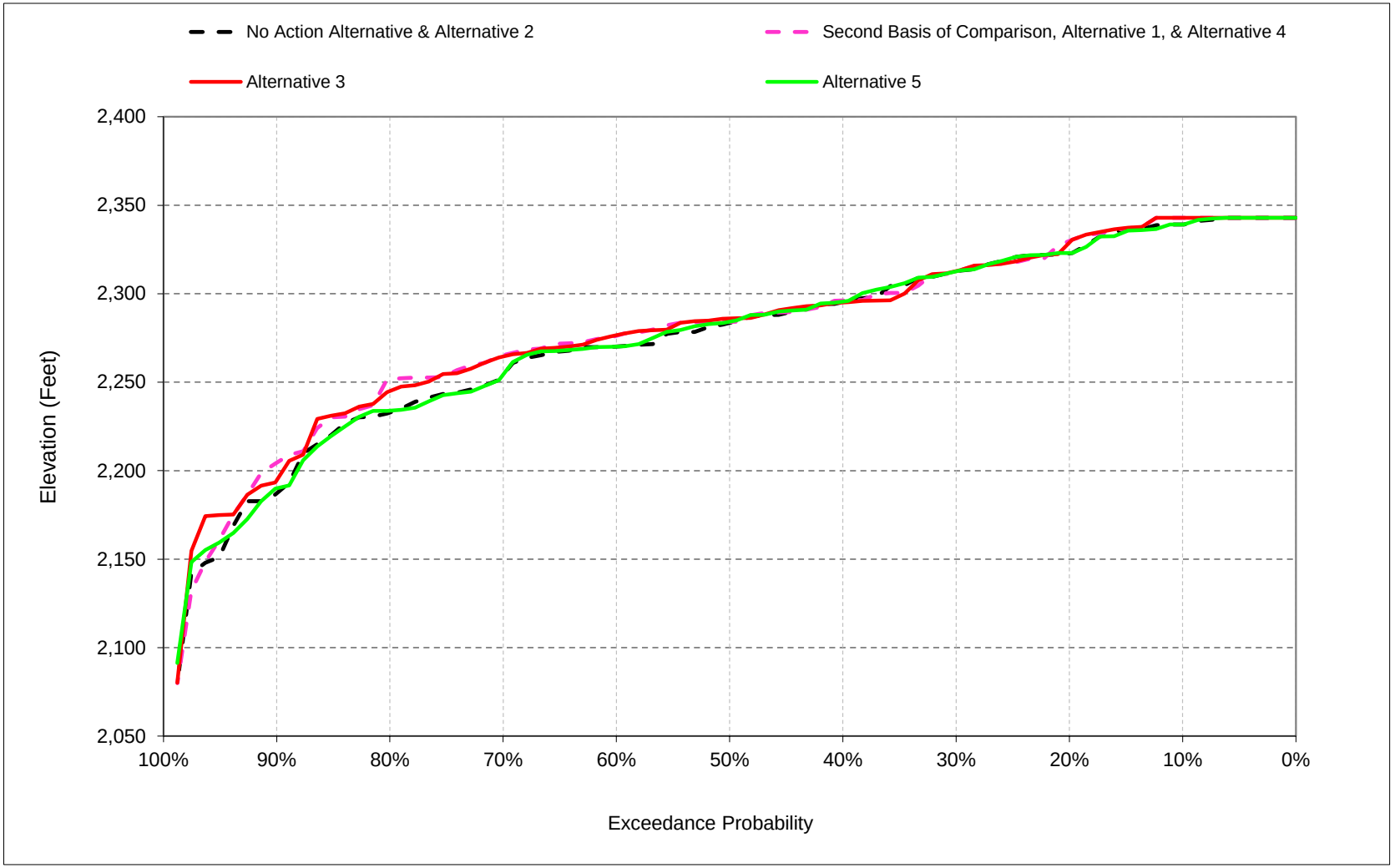
C.8. Trinity Lake Elevation

Figure C-8-1. Trinity Lake, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-8-2. Trinity Lake, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-8-1. Trinity Lake, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,331	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,359	2,356	2,348	2,337	2,324
30%	2,306	2,309	2,318	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,293	2,292	2,307	2,317	2,325	2,343	2,351	2,346	2,338	2,326	2,310	2,297
50%	2,278	2,280	2,291	2,303	2,317	2,325	2,337	2,331	2,320	2,308	2,295	2,286
60%	2,268	2,271	2,280	2,284	2,302	2,317	2,327	2,321	2,313	2,296	2,282	2,271
70%	2,259	2,258	2,266	2,271	2,281	2,291	2,301	2,300	2,294	2,284	2,271	2,262
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,287	2,284	2,278	2,262	2,246	2,236
90%	2,192	2,201	2,205	2,206	2,221	2,246	2,254	2,252	2,245	2,229	2,202	2,195
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,298	2,310	2,321	2,319	2,314	2,302	2,288	2,276
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,324	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,327
Above Normal (16%)	2,261	2,264	2,276	2,294	2,314	2,330	2,343	2,341	2,335	2,325	2,313	2,302
Below Normal (13%)	2,289	2,289	2,291	2,299	2,307	2,315	2,327	2,321	2,313	2,299	2,283	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,264	2,254
Critical (15%)	2,210	2,207	2,210	2,213	2,220	2,235	2,242	2,238	2,235	2,220	2,196	2,182

Alternative 1

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,358	2,353	2,343
20%	2,328	2,331	2,332	2,337	2,345	2,350	2,359	2,360	2,355	2,348	2,338	2,330
30%	2,309	2,310	2,323	2,329	2,343	2,350	2,357	2,353	2,349	2,339	2,327	2,315
40%	2,293	2,298	2,308	2,320	2,333	2,346	2,352	2,347	2,338	2,325	2,309	2,296
50%	2,283	2,283	2,294	2,308	2,318	2,330	2,346	2,338	2,326	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,289	2,306	2,320	2,326	2,324	2,318	2,302	2,288	2,278
70%	2,267	2,266	2,274	2,278	2,291	2,301	2,315	2,311	2,306	2,294	2,279	2,267
80%	2,249	2,250	2,253	2,261	2,269	2,283	2,299	2,297	2,289	2,273	2,261	2,252
90%	2,207	2,208	2,212	2,220	2,232	2,246	2,261	2,252	2,245	2,230	2,215	2,209
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,325	2,322	2,317	2,305	2,291	2,280
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,270	2,273	2,286	2,303	2,320	2,335	2,347	2,346	2,339	2,329	2,315	2,304
Below Normal (13%)	2,295	2,296	2,298	2,305	2,313	2,320	2,331	2,326	2,318	2,303	2,287	2,274
Dry (24%)	2,266	2,269	2,272	2,274	2,284	2,296	2,309	2,304	2,298	2,284	2,269	2,259
Critical (15%)	2,218	2,216	2,217	2,222	2,229	2,243	2,250	2,246	2,243	2,227	2,204	2,191

Alternative 1 minus No Action Alternative

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

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,331	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,359	2,356	2,348	2,337	2,324
30%	2,306	2,309	2,318	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,293	2,292	2,307	2,317	2,325	2,343	2,351	2,346	2,338	2,326	2,310	2,297
50%	2,278	2,280	2,291	2,303	2,317	2,325	2,337	2,331	2,320	2,308	2,295	2,286
60%	2,268	2,271	2,280	2,284	2,302	2,317	2,327	2,321	2,313	2,296	2,282	2,271
70%	2,259	2,258	2,266	2,271	2,281	2,291	2,301	2,300	2,294	2,284	2,271	2,262
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,287	2,284	2,278	2,262	2,246	2,236
90%	2,192	2,201	2,205	2,206	2,221	2,246	2,254	2,252	2,245	2,229	2,202	2,195
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,298	2,310	2,321	2,319	2,314	2,302	2,288	2,276
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,324	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,327
Above Normal (16%)	2,261	2,264	2,276	2,294	2,314	2,330	2,343	2,341	2,335	2,325	2,313	2,302
Below Normal (13%)	2,289	2,289	2,291	2,299	2,307	2,315	2,327	2,321	2,313	2,299	2,283	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,264	2,254
Critical (15%)	2,210	2,207	2,210	2,213	2,220	2,235	2,242	2,238	2,235	2,220	2,196	2,182

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,356	2,350	2,343
20%	2,329	2,331	2,332	2,337	2,345	2,350	2,359	2,358	2,356	2,348	2,337	2,330
30%	2,310	2,312	2,321	2,328	2,342	2,349	2,357	2,353	2,348	2,339	2,327	2,315
40%	2,291	2,294	2,309	2,317	2,333	2,345	2,351	2,347	2,340	2,324	2,309	2,296
50%	2,282	2,282	2,296	2,310	2,320	2,330	2,344	2,336	2,327	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,287	2,306	2,321	2,327	2,324	2,317	2,302	2,289	2,278
70%	2,266	2,266	2,275	2,276	2,289	2,300	2,313	2,309	2,305	2,293	2,278	2,266
80%	2,245	2,250	2,251	2,260	2,272	2,281	2,297	2,295	2,288	2,272	2,257	2,248
90%	2,206	2,206	2,205	2,213	2,229	2,246	2,262	2,258	2,251	2,236	2,215	2,206
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,324	2,322	2,317	2,305	2,291	2,281
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,268	2,271	2,284	2,301	2,319	2,334	2,347	2,345	2,339	2,328	2,315	2,304
Below Normal (13%)	2,293	2,295	2,297	2,304	2,312	2,319	2,330	2,325	2,317	2,302	2,286	2,274
Dry (24%)	2,265	2,268	2,271	2,273	2,283	2,296	2,309	2,305	2,299	2,284	2,269	2,260
Critical (15%)	2,226	2,220	2,222	2,225	2,231	2,244	2,252	2,248	2,244	2,229	2,204	2,193

Alternative 3 minus No Action Alternative

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

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,331	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,359	2,356	2,348	2,337	2,324
30%	2,306	2,309	2,318	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,293	2,292	2,307	2,317	2,325	2,343	2,351	2,346	2,338	2,326	2,310	2,297
50%	2,278	2,280	2,291	2,303	2,317	2,325	2,337	2,331	2,320	2,308	2,295	2,286
60%	2,268	2,271	2,280	2,284	2,302	2,317	2,327	2,321	2,313	2,296	2,282	2,271
70%	2,259	2,258	2,266	2,271	2,281	2,291	2,301	2,300	2,294	2,284	2,271	2,262
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,287	2,284	2,278	2,262	2,246	2,236
90%	2,192	2,201	2,205	2,206	2,221	2,246	2,254	2,252	2,245	2,229	2,202	2,195
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,298	2,310	2,321	2,319	2,314	2,302	2,288	2,276
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,324	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,327
Above Normal (16%)	2,261	2,264	2,276	2,294	2,314	2,330	2,343	2,341	2,335	2,325	2,313	2,302
Below Normal (13%)	2,289	2,289	2,291	2,299	2,307	2,315	2,327	2,321	2,313	2,299	2,283	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,264	2,254
Critical (15%)	2,210	2,207	2,210	2,213	2,220	2,235	2,242	2,238	2,235	2,220	2,196	2,182

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,330	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,360	2,356	2,348	2,336	2,323
30%	2,306	2,309	2,319	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,296	2,292	2,308	2,318	2,325	2,344	2,352	2,347	2,338	2,326	2,311	2,299
50%	2,279	2,281	2,292	2,304	2,317	2,326	2,336	2,332	2,322	2,308	2,296	2,286
60%	2,269	2,273	2,281	2,284	2,302	2,317	2,328	2,321	2,314	2,301	2,283	2,271
70%	2,261	2,259	2,266	2,271	2,281	2,292	2,301	2,299	2,293	2,283	2,270	2,263
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,288	2,282	2,277	2,262	2,248	2,235
90%	2,190	2,200	2,201	2,206	2,221	2,245	2,253	2,251	2,246	2,232	2,203	2,193
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,299	2,310	2,321	2,319	2,314	2,302	2,289	2,277
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,325	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,326
Above Normal (16%)	2,259	2,262	2,276	2,294	2,314	2,330	2,343	2,342	2,335	2,326	2,313	2,303
Below Normal (13%)	2,289	2,290	2,292	2,299	2,308	2,315	2,326	2,321	2,313	2,299	2,284	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,265	2,254
Critical (15%)	2,209	2,206	2,209	2,212	2,220	2,234	2,241	2,237	2,235	2,221	2,199	2,183

Alternative 5 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	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	0	0
20%	0	0	1	0	0	0	0	0	0	0	-1	-1
30%	0	0	1	0	0	0	0	0	0	0	0	0
40%	4	0	0	1	0	1	1	0	0	0	1	2
50%	1	1	1	1	1	0	-1	0	2	0	1	1
60%	1	2	1	0	0	0	0	0	0	5	1	0
70%	2	2	-1	-1	0	1	0	-1	0	-1	-1	1
80%	0	-1	0	0	0	0	1	-2	-1	1	2	-1
90%	-2	0	-4	0	0	-1	-1	-1	1	3	1	-2
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	1	1	0
Water Year Types[c]												
Wet (32%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (16%)	-2	-2	0	0	0	0	0	0	0	0	1	1
Below Normal (13%)	1	1	1	1	1	0	0	0	0	0	1	0
Dry (24%)	1	0	0	0	0	0	0	0	0	0	1	1
Critical (15%)	0	-1	-1	-1	-1	-1	-1	-1	-1	2	3	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 C-8-4. Trinity Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,358	2,353	2,343
20%	2,328	2,331	2,332	2,337	2,345	2,350	2,359	2,360	2,355	2,348	2,338	2,330
30%	2,309	2,310	2,323	2,329	2,343	2,350	2,357	2,353	2,349	2,339	2,327	2,315
40%	2,293	2,298	2,308	2,320	2,333	2,346	2,352	2,347	2,338	2,325	2,309	2,296
50%	2,283	2,283	2,294	2,308	2,318	2,330	2,346	2,338	2,326	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,289	2,306	2,320	2,326	2,324	2,318	2,302	2,288	2,278
70%	2,267	2,266	2,274	2,278	2,291	2,301	2,315	2,311	2,306	2,294	2,279	2,267
80%	2,249	2,250	2,253	2,261	2,269	2,283	2,299	2,297	2,289	2,273	2,261	2,252
90%	2,207	2,208	2,212	2,220	2,232	2,246	2,261	2,252	2,245	2,230	2,215	2,209
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,325	2,322	2,317	2,305	2,291	2,280
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,270	2,273	2,286	2,303	2,320	2,335	2,347	2,346	2,339	2,329	2,315	2,304
Below Normal (13%)	2,295	2,296	2,298	2,305	2,313	2,320	2,331	2,326	2,318	2,303	2,287	2,274
Dry (24%)	2,266	2,269	2,272	2,274	2,284	2,296	2,309	2,304	2,298	2,284	2,269	2,259
Critical (15%)	2,218	2,216	2,217	2,222	2,229	2,243	2,250	2,246	2,243	2,227	2,204	2,191

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,331	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,359	2,356	2,348	2,337	2,324
30%	2,306	2,309	2,318	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,293	2,292	2,307	2,317	2,325	2,343	2,351	2,346	2,338	2,326	2,310	2,297
50%	2,278	2,280	2,291	2,303	2,317	2,325	2,337	2,331	2,320	2,308	2,295	2,286
60%	2,268	2,271	2,280	2,284	2,302	2,317	2,327	2,321	2,313	2,296	2,282	2,271
70%	2,259	2,258	2,266	2,271	2,281	2,291	2,301	2,300	2,294	2,284	2,271	2,262
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,287	2,284	2,278	2,262	2,246	2,236
90%	2,192	2,201	2,205	2,206	2,221	2,246	2,254	2,252	2,245	2,229	2,202	2,195
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,298	2,310	2,321	2,319	2,314	2,302	2,288	2,276
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,324	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,327
Above Normal (16%)	2,261	2,264	2,276	2,294	2,314	2,330	2,343	2,341	2,335	2,325	2,313	2,302
Below Normal (13%)	2,289	2,289	2,291	2,299	2,307	2,315	2,327	2,321	2,313	2,299	2,283	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,264	2,254
Critical (15%)	2,210	2,207	2,210	2,213	2,220	2,235	2,242	2,238	2,235	2,220	2,196	2,182

No Action Alternative minus Second Basis of Comparison

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

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,358	2,353	2,343
20%	2,328	2,331	2,332	2,337	2,345	2,350	2,359	2,360	2,355	2,348	2,338	2,330
30%	2,309	2,310	2,323	2,329	2,343	2,350	2,357	2,353	2,349	2,339	2,327	2,315
40%	2,293	2,298	2,308	2,320	2,333	2,346	2,352	2,347	2,338	2,325	2,309	2,296
50%	2,283	2,283	2,294	2,308	2,318	2,330	2,346	2,338	2,326	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,289	2,306	2,320	2,326	2,324	2,318	2,302	2,288	2,278
70%	2,267	2,266	2,274	2,278	2,291	2,301	2,315	2,311	2,306	2,294	2,279	2,267
80%	2,249	2,250	2,253	2,261	2,269	2,283	2,299	2,297	2,289	2,273	2,261	2,252
90%	2,207	2,208	2,212	2,220	2,232	2,246	2,261	2,252	2,245	2,230	2,215	2,209
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,325	2,322	2,317	2,305	2,291	2,280
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,270	2,273	2,286	2,303	2,320	2,335	2,347	2,346	2,339	2,329	2,315	2,304
Below Normal (13%)	2,295	2,296	2,298	2,305	2,313	2,320	2,331	2,326	2,318	2,303	2,287	2,274
Dry (24%)	2,266	2,269	2,272	2,274	2,284	2,296	2,309	2,304	2,298	2,284	2,269	2,259
Critical (15%)	2,218	2,216	2,217	2,222	2,229	2,243	2,250	2,246	2,243	2,227	2,204	2,191

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,356	2,350	2,343
20%	2,329	2,331	2,332	2,337	2,345	2,350	2,359	2,358	2,356	2,348	2,337	2,330
30%	2,310	2,312	2,321	2,328	2,342	2,349	2,357	2,353	2,348	2,339	2,327	2,315
40%	2,291	2,294	2,309	2,317	2,333	2,345	2,351	2,347	2,340	2,324	2,309	2,296
50%	2,282	2,282	2,296	2,310	2,320	2,330	2,344	2,336	2,327	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,287	2,306	2,321	2,327	2,324	2,317	2,302	2,289	2,278
70%	2,266	2,266	2,275	2,276	2,289	2,300	2,313	2,309	2,305	2,293	2,278	2,266
80%	2,245	2,250	2,251	2,260	2,272	2,281	2,297	2,295	2,288	2,272	2,257	2,248
90%	2,206	2,206	2,205	2,213	2,229	2,246	2,262	2,258	2,251	2,236	2,215	2,206
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,324	2,322	2,317	2,305	2,291	2,281
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,268	2,271	2,284	2,301	2,319	2,334	2,347	2,345	2,339	2,328	2,315	2,304
Below Normal (13%)	2,293	2,295	2,297	2,304	2,312	2,319	2,330	2,325	2,317	2,302	2,286	2,274
Dry (24%)	2,265	2,268	2,271	2,273	2,283	2,296	2,309	2,305	2,299	2,284	2,269	2,260
Critical (15%)	2,226	2,220	2,222	2,225	2,231	2,244	2,252	2,248	2,244	2,229	2,204	2,193

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	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**	**-2**	**-2**	0
20%	1	**-1**	**0**	0	0	0	0	**-2**	1	0	**-1**	**0**
30%	1	2	**-2**	**-1**	**-1**	**-1**	**0**	0	**-1**	0	0	0
40%	**-2**	**-4**	0	**-3**	0	**-1**	**-1**	1	2	**-1**	**0**	**-1**
50%	**-1**	**-1**	2	2	1	0	**-2**	**-1**	1	**0**	0	0
60%	**-1**	0	0	**-1**	0	1	1	**0**	**0**	**0**	0	0
70%	**-1**	**0**	1	**-2**	**-2**	**-1**	**-1**	**-2**	**-1**	**-1**	**0**	**-1**
80%	**-4**	0	**-2**	**-1**	2	**-2**	**-2**	**-2**	**-1**	**-1**	**-4**	**-5**
90%	**-1**	**-2**	**-7**	**-6**	**-3**	0	2	5	6	6	0	**-3**
Long Term												
Full Simulation Period[b]	1	0	0	0	**0**	**0**	**0**	**0**	0	**0**	**0**	0
Water Year Types[c]												
Wet (32%)	0	0	**0**	**0**	**0**	0	**0**	**0**	**0**	**0**	**0**	0
Above Normal (16%)	**-2**	**-2**	**-2**	**-2**	**-1**	**-1**	**-1**	**-1**	**0**	**-1**	**0**	**0**
Below Normal (13%)	**-2**	**-2**	**-1**	**-1**	**-1**	**-1**	**-1**	**-1**	**-1**	**-1**	**0**	**-1**
Dry (24%)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	0	0	0
Critical (15%)	8	5	5	4	3	2	1	2	2	1	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 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 C-8-6. Trinity Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,332	2,332	2,337	2,345	2,350	2,361	2,364	2,361	2,358	2,353	2,343
20%	2,328	2,331	2,332	2,337	2,345	2,350	2,359	2,360	2,355	2,348	2,338	2,330
30%	2,309	2,310	2,323	2,329	2,343	2,350	2,357	2,353	2,349	2,339	2,327	2,315
40%	2,293	2,298	2,308	2,320	2,333	2,346	2,352	2,347	2,338	2,325	2,309	2,296
50%	2,283	2,283	2,294	2,308	2,318	2,330	2,346	2,338	2,326	2,311	2,296	2,286
60%	2,273	2,276	2,279	2,289	2,306	2,320	2,326	2,324	2,318	2,302	2,288	2,278
70%	2,267	2,266	2,274	2,278	2,291	2,301	2,315	2,311	2,306	2,294	2,279	2,267
80%	2,249	2,250	2,253	2,261	2,269	2,283	2,299	2,297	2,289	2,273	2,261	2,252
90%	2,207	2,208	2,212	2,220	2,232	2,246	2,261	2,252	2,245	2,230	2,215	2,209
Long Term												
Full Simulation Period[b]	2,275	2,277	2,283	2,291	2,303	2,314	2,325	2,322	2,317	2,305	2,291	2,280
Water Year Types[c]												
Wet (32%)	2,301	2,305	2,314	2,325	2,339	2,347	2,357	2,358	2,355	2,347	2,338	2,328
Above Normal (16%)	2,270	2,273	2,286	2,303	2,320	2,335	2,347	2,346	2,339	2,329	2,315	2,304
Below Normal (13%)	2,295	2,296	2,298	2,305	2,313	2,320	2,331	2,326	2,318	2,303	2,287	2,274
Dry (24%)	2,266	2,269	2,272	2,274	2,284	2,296	2,309	2,304	2,298	2,284	2,269	2,259
Critical (15%)	2,218	2,216	2,217	2,222	2,229	2,243	2,250	2,246	2,243	2,227	2,204	2,191

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,332	2,330	2,332	2,337	2,345	2,350	2,360	2,364	2,361	2,359	2,353	2,339
20%	2,325	2,322	2,328	2,336	2,345	2,350	2,358	2,360	2,356	2,348	2,336	2,323
30%	2,306	2,309	2,319	2,326	2,341	2,349	2,357	2,353	2,348	2,338	2,326	2,314
40%	2,296	2,292	2,308	2,318	2,325	2,344	2,352	2,347	2,338	2,326	2,311	2,299
50%	2,279	2,281	2,292	2,304	2,317	2,326	2,336	2,332	2,322	2,308	2,296	2,286
60%	2,269	2,273	2,281	2,284	2,302	2,317	2,328	2,321	2,314	2,301	2,283	2,271
70%	2,261	2,259	2,266	2,271	2,281	2,292	2,301	2,299	2,293	2,283	2,270	2,263
80%	2,235	2,238	2,241	2,252	2,259	2,270	2,288	2,282	2,277	2,262	2,248	2,235
90%	2,190	2,200	2,201	2,206	2,221	2,245	2,253	2,251	2,246	2,232	2,203	2,193
Long Term												
Full Simulation Period[b]	2,270	2,271	2,278	2,286	2,299	2,310	2,321	2,319	2,314	2,302	2,289	2,277
Water Year Types[c]												
Wet (32%)	2,300	2,303	2,313	2,325	2,338	2,347	2,357	2,358	2,355	2,347	2,338	2,326
Above Normal (16%)	2,259	2,262	2,276	2,294	2,314	2,330	2,343	2,342	2,335	2,326	2,313	2,303
Below Normal (13%)	2,289	2,290	2,292	2,299	2,308	2,315	2,326	2,321	2,313	2,299	2,284	2,272
Dry (24%)	2,263	2,265	2,268	2,269	2,279	2,292	2,305	2,301	2,294	2,279	2,265	2,254
Critical (15%)	2,209	2,206	2,209	2,212	2,220	2,234	2,241	2,237	2,235	2,221	2,199	2,183

Alternative 5 minus Second Basis of Comparison

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

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

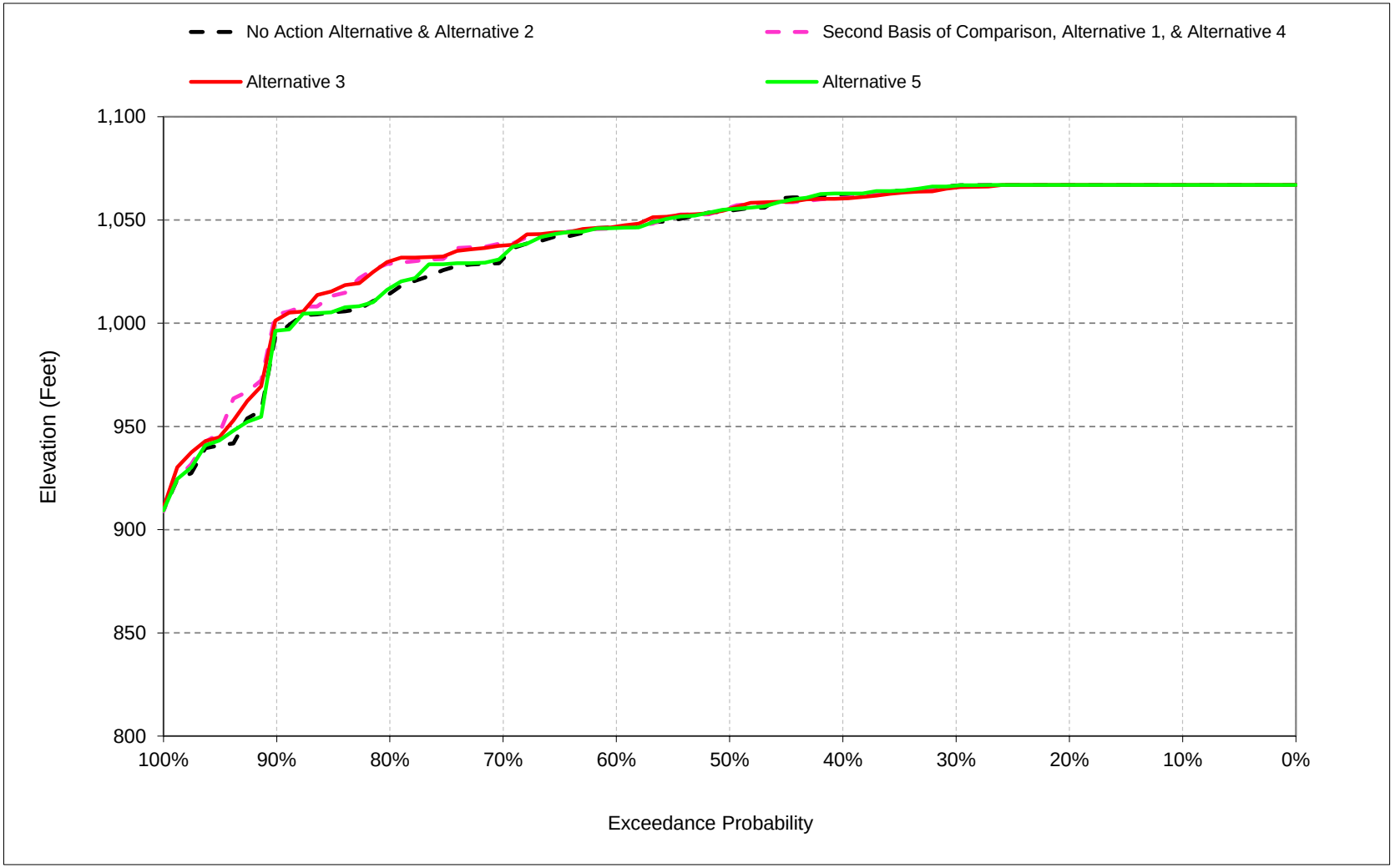
b Based on the 82-year simulation period.

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 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.

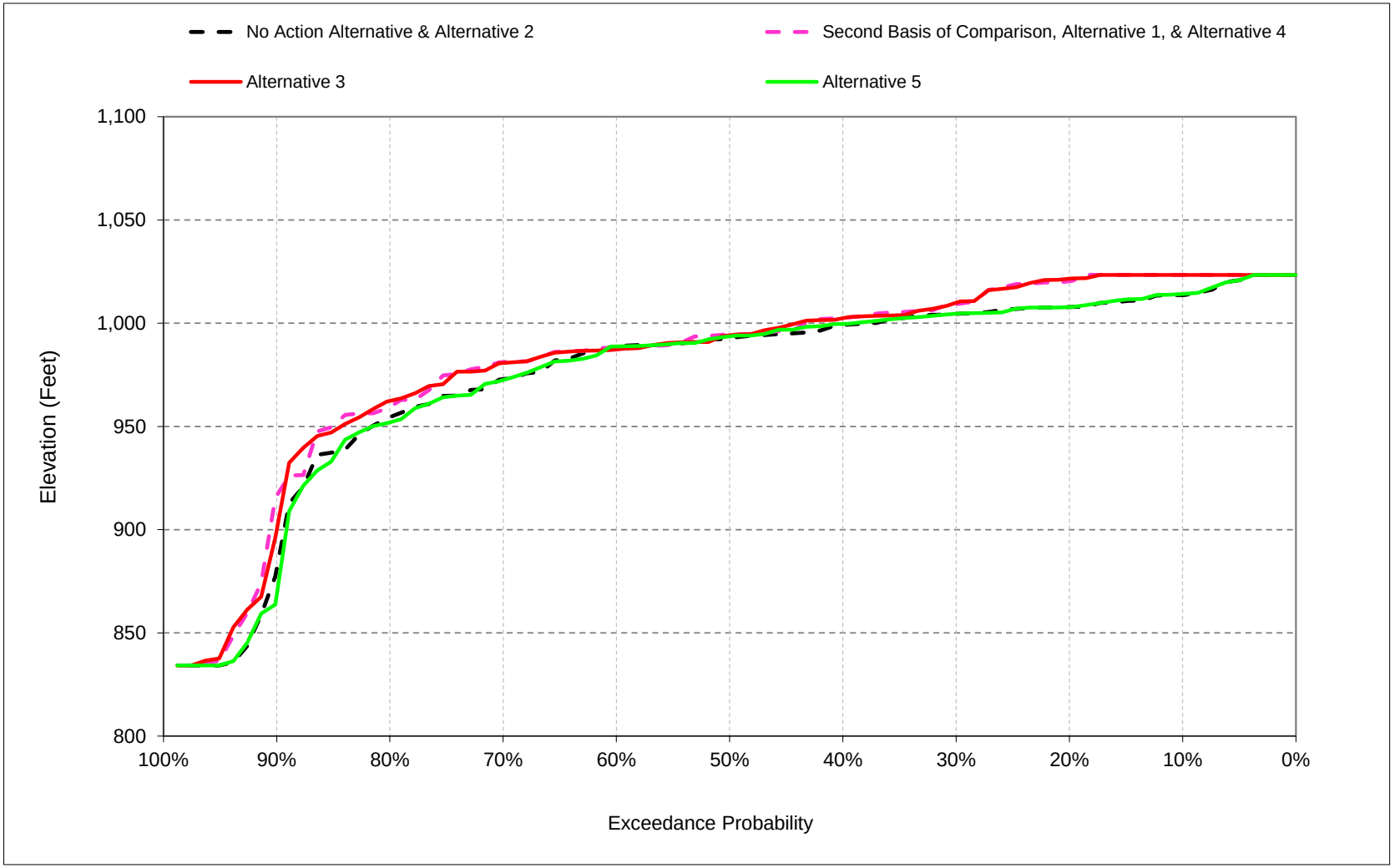
C.9. Shasta Lake Elevation

Figure C-9-1. Shasta Lake, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-9-2. Shasta Lake, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-9-1. Shasta Lake, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,015	1,020	1,033	1,041	1,055	1,064	1,067	1,063	1,044	1,031	1,014
20%	1,005	1,003	1,019	1,029	1,036	1,051	1,063	1,067	1,057	1,039	1,027	1,008
30%	1,000	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	994	992	1,007	1,017	1,027	1,045	1,057	1,062	1,048	1,020	1,007	1,000
50%	988	986	996	1,013	1,023	1,039	1,052	1,054	1,039	1,014	999	994
60%	984	981	986	1,004	1,018	1,031	1,047	1,046	1,030	1,006	994	989
70%	969	970	975	990	1,012	1,024	1,038	1,031	1,019	993	984	974
80%	953	953	964	981	996	1,012	1,025	1,014	998	974	961	957
90%	907	905	912	954	967	987	993	994	976	943	917	914
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,038	1,024	1,000	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	986	985	991	1,009	1,025	1,040	1,048	1,045	1,031	1,006	989	987
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,034	1,018	995	982	980
Critical (15%)	927	923	929	939	951	968	965	958	935	899	876	872

Alternative 1

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,022	1,033	1,044	1,055	1,065	1,067	1,063	1,044	1,030	1,023
20%	1,017	1,017	1,020	1,030	1,039	1,051	1,063	1,067	1,057	1,039	1,023	1,020
30%	1,012	1,015	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,030	1,014	1,010
40%	1,003	1,007	1,017	1,023	1,031	1,046	1,058	1,061	1,044	1,019	1,005	1,003
50%	993	995	1,012	1,020	1,027	1,044	1,054	1,056	1,037	1,012	997	995
60%	985	988	1,003	1,013	1,021	1,037	1,050	1,046	1,027	1,004	990	988
70%	975	982	991	1,001	1,017	1,028	1,043	1,039	1,020	997	986	982
80%	961	964	966	989	1,005	1,024	1,034	1,029	1,004	979	963	963
90%	918	913	926	959	978	996	994	1,004	989	955	931	926
Long Term												
Full Simulation Period[b]	979	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	986	983
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,037	1,022	1,017
Above Normal (16%)	974	978	992	1,019	1,028	1,048	1,062	1,062	1,046	1,021	1,005	1,003
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,053	1,049	1,031	1,006	987	986
Dry (24%)	972	974	982	992	1,012	1,032	1,041	1,038	1,020	997	984	982
Critical (15%)	938	935	941	950	961	977	974	967	943	910	889	884

Alternative 1 minus No Action Alternative

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

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,015	1,020	1,033	1,041	1,055	1,064	1,067	1,063	1,044	1,031	1,014
20%	1,005	1,003	1,019	1,029	1,036	1,051	1,063	1,067	1,057	1,039	1,027	1,008
30%	1,000	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	994	992	1,007	1,017	1,027	1,045	1,057	1,062	1,048	1,020	1,007	1,000
50%	988	986	996	1,013	1,023	1,039	1,052	1,054	1,039	1,014	999	994
60%	984	981	986	1,004	1,018	1,031	1,047	1,046	1,030	1,006	994	989
70%	969	970	975	990	1,012	1,024	1,038	1,031	1,019	993	984	974
80%	953	953	964	981	996	1,012	1,025	1,014	998	974	961	957
90%	907	905	912	954	967	987	993	994	976	943	917	914
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,038	1,024	1,000	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	986	985	991	1,009	1,025	1,040	1,048	1,045	1,031	1,006	989	987
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,034	1,018	995	982	980
Critical (15%)	927	923	929	939	951	968	965	958	935	899	876	872

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,021	1,034	1,044	1,055	1,064	1,067	1,063	1,043	1,031	1,023
20%	1,015	1,017	1,020	1,030	1,039	1,052	1,063	1,067	1,057	1,039	1,024	1,022
30%	1,010	1,013	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,029	1,013	1,011
40%	1,003	1,009	1,017	1,022	1,032	1,046	1,057	1,060	1,044	1,019	1,006	1,003
50%	992	996	1,010	1,018	1,027	1,042	1,054	1,055	1,038	1,012	996	995
60%	983	988	1,003	1,014	1,020	1,038	1,050	1,047	1,028	1,006	992	988
70%	977	979	990	1,001	1,017	1,028	1,044	1,038	1,022	997	986	981
80%	962	962	969	989	1,005	1,023	1,034	1,030	1,006	983	966	964
90%	926	925	930	962	977	998	993	1,002	990	961	942	933
Long Term												
Full Simulation Period[b]	978	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	987	982
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,036	1,022	1,017
Above Normal (16%)	973	976	990	1,018	1,028	1,048	1,062	1,062	1,046	1,021	1,006	1,004
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,054	1,049	1,032	1,008	991	986
Dry (24%)	974	976	983	993	1,013	1,033	1,042	1,039	1,021	998	985	983
Critical (15%)	935	933	939	948	960	975	972	966	941	910	888	882

Alternative 3 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2	2	1	1	3	0	0	0	-1	-1	0	10
20%	9	14	1	1	3	0	0	0	0	-1	-3	14
30%	10	17	2	6	3	1	0	-1	-1	-2	-2	6
40%	9	17	10	5	5	1	0	-2	-3	-1	-1	3
50%	4	11	14	5	4	4	1	1	-1	-1	-3	1
60%	-1	7	16	9	2	7	3	0	-2	0	-2	-2
70%	8	9	15	11	5	4	6	6	3	4	3	7
80%	9	9	5	8	9	11	9	16	8	8	5	7
90%	20	20	18	8	10	11	0	8	14	17	25	20
Long Term												
Full Simulation Period[b]	7	10	8	6	5	4	3	3	1	2	2	6
Water Year Types[c]												
Wet (32%)	6	10	4	1	0	0	0	0	-1	-1	-2	12
Above Normal (16%)	5	8	8	6	2	0	0	-1	-2	-2	-3	5
Below Normal (13%)	11	14	13	10	9	6	6	4	2	2	2	-2
Dry (24%)	5	9	8	7	7	6	6	5	3	3	3	2
Critical (15%)	8	10	10	9	8	7	8	8	7	11	11	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 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 C-9-3. Shasta Lake, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,015	1,020	1,033	1,041	1,055	1,064	1,067	1,063	1,044	1,031	1,014
20%	1,005	1,003	1,019	1,029	1,036	1,051	1,063	1,067	1,057	1,039	1,027	1,008
30%	1,000	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	994	992	1,007	1,017	1,027	1,045	1,057	1,062	1,048	1,020	1,007	1,000
50%	988	986	996	1,013	1,023	1,039	1,052	1,054	1,039	1,014	999	994
60%	984	981	986	1,004	1,018	1,031	1,047	1,046	1,030	1,006	994	989
70%	969	970	975	990	1,012	1,024	1,038	1,031	1,019	993	984	974
80%	953	953	964	981	996	1,012	1,025	1,014	998	974	961	957
90%	907	905	912	954	967	987	993	994	976	943	917	914
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,038	1,024	1,000	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	986	985	991	1,009	1,025	1,040	1,048	1,045	1,031	1,006	989	987
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,034	1,018	995	982	980
Critical (15%)	927	923	929	939	951	968	965	958	935	899	876	872

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,017	1,020	1,033	1,041	1,055	1,065	1,067	1,063	1,044	1,031	1,014
20%	1,007	1,002	1,019	1,029	1,037	1,051	1,063	1,067	1,057	1,039	1,026	1,008
30%	1,001	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	995	992	1,008	1,018	1,028	1,045	1,057	1,063	1,046	1,020	1,007	1,000
50%	989	986	996	1,014	1,023	1,039	1,052	1,055	1,040	1,015	1,000	994
60%	984	981	986	1,005	1,018	1,032	1,047	1,046	1,032	1,007	995	989
70%	970	970	976	990	1,013	1,024	1,038	1,033	1,019	994	984	974
80%	951	953	964	981	996	1,013	1,027	1,017	1,000	976	959	955
90%	904	902	908	952	970	987	992	996	980	944	913	910
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,039	1,025	1,001	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	987	985	992	1,009	1,025	1,040	1,048	1,045	1,031	1,006	990	988
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,035	1,019	996	982	980
Critical (15%)	925	921	928	938	950	967	965	959	937	899	874	869

Alternative 5 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	1	0	0	0	0	0	0	**0**	0	0	1
20%	1	**-1**	0	0	0	0	**0**	0	**0**	**-1**	**0**	**0**
30%	1	0	0	**0**	0	0	**0**	0	0	0	1	0
40%	1	0	1	0	0	**0**	**0**	0	**-1**	**0**	0	1
50%	1	0	1	1	0	**0**	0	1	0	1	1	0
60%	**0**	0	**0**	0	0	1	**0**	**0**	2	1	1	**0**
70%	1	**0**	1	1	1	**0**	1	2	**0**	1	**0**	0
80%	**-2**	0	**0**	**0**	**0**	1	2	3	2	2	**-3**	**-3**
90%	**-3**	**-3**	**-4**	**-2**	3	1	**-1**	2	4	1	**-4**	**-3**
Long Term												
Full Simulation Period[b]	**0**	**0**	**0**	**0**	**0**	**0**	0	1	1	0	**0**	**0**
Water Year Types[c]												
Wet (32%)	0	**0**	0	0	0	0	0	0	0	0	**0**	0
Above Normal (16%)	**0**	0	**0**	**0**	**0**	**0**	**0**	0	0	0	0	0
Below Normal (13%)	1	1	1	1	0	0	1	1	1	0	1	1
Dry (24%)	**0**	0	0	0	0	0	0	1	1	1	**0**	**0**
Critical (15%)	**-2**	**-2**	**-1**	**-1**	**-1**	**-1**	0	1	3	**-1**	**-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 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 C-9-4. Shasta Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,022	1,033	1,044	1,055	1,065	1,067	1,063	1,044	1,030	1,023
20%	1,017	1,017	1,020	1,030	1,039	1,051	1,063	1,067	1,057	1,039	1,023	1,020
30%	1,012	1,015	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,030	1,014	1,010
40%	1,003	1,007	1,017	1,023	1,031	1,046	1,058	1,061	1,044	1,019	1,005	1,003
50%	993	995	1,012	1,020	1,027	1,044	1,054	1,056	1,037	1,012	997	995
60%	985	988	1,003	1,013	1,021	1,037	1,050	1,046	1,027	1,004	990	988
70%	975	982	991	1,001	1,017	1,028	1,043	1,039	1,020	997	986	982
80%	961	964	966	989	1,005	1,024	1,034	1,029	1,004	979	963	963
90%	918	913	926	959	978	996	994	1,004	989	955	931	926
Long Term												
Full Simulation Period[b]	979	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	986	983
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,037	1,022	1,017
Above Normal (16%)	974	978	992	1,019	1,028	1,048	1,062	1,062	1,046	1,021	1,005	1,003
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,053	1,049	1,031	1,006	987	986
Dry (24%)	972	974	982	992	1,012	1,032	1,041	1,038	1,020	997	984	982
Critical (15%)	938	935	941	950	961	977	974	967	943	910	889	884

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,015	1,020	1,033	1,041	1,055	1,064	1,067	1,063	1,044	1,031	1,014
20%	1,005	1,003	1,019	1,029	1,036	1,051	1,063	1,067	1,057	1,039	1,027	1,008
30%	1,000	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	994	992	1,007	1,017	1,027	1,045	1,057	1,062	1,048	1,020	1,007	1,000
50%	988	986	996	1,013	1,023	1,039	1,052	1,054	1,039	1,014	999	994
60%	984	981	986	1,004	1,018	1,031	1,047	1,046	1,030	1,006	994	989
70%	969	970	975	990	1,012	1,024	1,038	1,031	1,019	993	984	974
80%	953	953	964	981	996	1,012	1,025	1,014	998	974	961	957
90%	907	905	912	954	967	987	993	994	976	943	917	914
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,038	1,024	1,000	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	986	985	991	1,009	1,025	1,040	1,048	1,045	1,031	1,006	989	987
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,034	1,018	995	982	980
Critical (15%)	927	923	929	939	951	968	965	958	935	899	876	872

No Action Alternative minus Second Basis of Comparison

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

Table C-9-5. Shasta Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,022	1,033	1,044	1,055	1,065	1,067	1,063	1,044	1,030	1,023
20%	1,017	1,017	1,020	1,030	1,039	1,051	1,063	1,067	1,057	1,039	1,023	1,020
30%	1,012	1,015	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,030	1,014	1,010
40%	1,003	1,007	1,017	1,023	1,031	1,046	1,058	1,061	1,044	1,019	1,005	1,003
50%	993	995	1,012	1,020	1,027	1,044	1,054	1,056	1,037	1,012	997	995
60%	985	988	1,003	1,013	1,021	1,037	1,050	1,046	1,027	1,004	990	988
70%	975	982	991	1,001	1,017	1,028	1,043	1,039	1,020	997	986	982
80%	961	964	966	989	1,005	1,024	1,034	1,029	1,004	979	963	963
90%	918	913	926	959	978	996	994	1,004	989	955	931	926
Long Term												
Full Simulation Period[b]	979	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	986	983
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,037	1,022	1,017
Above Normal (16%)	974	978	992	1,019	1,028	1,048	1,062	1,062	1,046	1,021	1,005	1,003
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,053	1,049	1,031	1,006	987	986
Dry (24%)	972	974	982	992	1,012	1,032	1,041	1,038	1,020	997	984	982
Critical (15%)	938	935	941	950	961	977	974	967	943	910	889	884

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,021	1,034	1,044	1,055	1,064	1,067	1,063	1,043	1,031	1,023
20%	1,015	1,017	1,020	1,030	1,039	1,052	1,063	1,067	1,057	1,039	1,024	1,022
30%	1,010	1,013	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,029	1,013	1,011
40%	1,003	1,009	1,017	1,022	1,032	1,046	1,057	1,060	1,044	1,019	1,006	1,003
50%	992	996	1,010	1,018	1,027	1,042	1,054	1,055	1,038	1,012	996	995
60%	983	988	1,003	1,014	1,020	1,038	1,050	1,047	1,028	1,006	992	988
70%	977	979	990	1,001	1,017	1,028	1,044	1,038	1,022	997	986	981
80%	962	962	969	989	1,005	1,023	1,034	1,030	1,006	983	966	964
90%	926	925	930	962	977	998	993	1,002	990	961	942	933
Long Term												
Full Simulation Period[b]	978	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	987	982
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,036	1,022	1,017
Above Normal (16%)	973	976	990	1,018	1,028	1,048	1,062	1,062	1,046	1,021	1,006	1,004
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,054	1,049	1,032	1,008	991	986
Dry (24%)	974	976	983	993	1,013	1,033	1,042	1,039	1,021	998	985	983
Critical (15%)	935	933	939	948	960	975	972	966	941	910	888	882

Alternative 3 minus Second Basis of Comparison

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

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,017	1,017	1,022	1,033	1,044	1,055	1,065	1,067	1,063	1,044	1,030	1,023
20%	1,017	1,017	1,020	1,030	1,039	1,051	1,063	1,067	1,057	1,039	1,023	1,020
30%	1,012	1,015	1,019	1,028	1,035	1,048	1,061	1,066	1,053	1,030	1,014	1,010
40%	1,003	1,007	1,017	1,023	1,031	1,046	1,058	1,061	1,044	1,019	1,005	1,003
50%	993	995	1,012	1,020	1,027	1,044	1,054	1,056	1,037	1,012	997	995
60%	985	988	1,003	1,013	1,021	1,037	1,050	1,046	1,027	1,004	990	988
70%	975	982	991	1,001	1,017	1,028	1,043	1,039	1,020	997	986	982
80%	961	964	966	989	1,005	1,024	1,034	1,029	1,004	979	963	963
90%	918	913	926	959	978	996	994	1,004	989	955	931	926
Long Term												
Full Simulation Period[b]	979	981	990	1,004	1,016	1,031	1,042	1,041	1,026	1,002	986	983
Water Year Types[c]												
Wet (32%)	997	1,002	1,012	1,024	1,032	1,041	1,058	1,063	1,055	1,037	1,022	1,017
Above Normal (16%)	974	978	992	1,019	1,028	1,048	1,062	1,062	1,046	1,021	1,005	1,003
Below Normal (13%)	997	998	1,004	1,019	1,034	1,046	1,053	1,049	1,031	1,006	987	986
Dry (24%)	972	974	982	992	1,012	1,032	1,041	1,038	1,020	997	984	982
Critical (15%)	938	935	941	950	961	977	974	967	943	910	889	884

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,015	1,017	1,020	1,033	1,041	1,055	1,065	1,067	1,063	1,044	1,031	1,014
20%	1,007	1,002	1,019	1,029	1,037	1,051	1,063	1,067	1,057	1,039	1,026	1,008
30%	1,001	996	1,017	1,022	1,033	1,047	1,061	1,067	1,054	1,031	1,016	1,005
40%	995	992	1,008	1,018	1,028	1,045	1,057	1,063	1,046	1,020	1,007	1,000
50%	989	986	996	1,014	1,023	1,039	1,052	1,055	1,040	1,015	1,000	994
60%	984	981	986	1,005	1,018	1,032	1,047	1,046	1,032	1,007	995	989
70%	970	970	976	990	1,013	1,024	1,038	1,033	1,019	994	984	974
80%	951	953	964	981	996	1,013	1,027	1,017	1,000	976	959	955
90%	904	902	908	952	970	987	992	996	980	944	913	910
Long Term												
Full Simulation Period[b]	972	971	982	998	1,012	1,028	1,038	1,039	1,025	1,001	985	976
Water Year Types[c]												
Wet (32%)	991	992	1,008	1,023	1,031	1,041	1,058	1,064	1,056	1,037	1,024	1,005
Above Normal (16%)	967	968	982	1,012	1,025	1,048	1,062	1,063	1,049	1,024	1,009	999
Below Normal (13%)	987	985	992	1,009	1,025	1,040	1,048	1,045	1,031	1,006	990	988
Dry (24%)	969	967	975	986	1,006	1,027	1,037	1,035	1,019	996	982	980
Critical (15%)	925	921	928	938	950	967	965	959	937	899	874	869

Alternative 5 minus Second Basis of Comparison

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

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

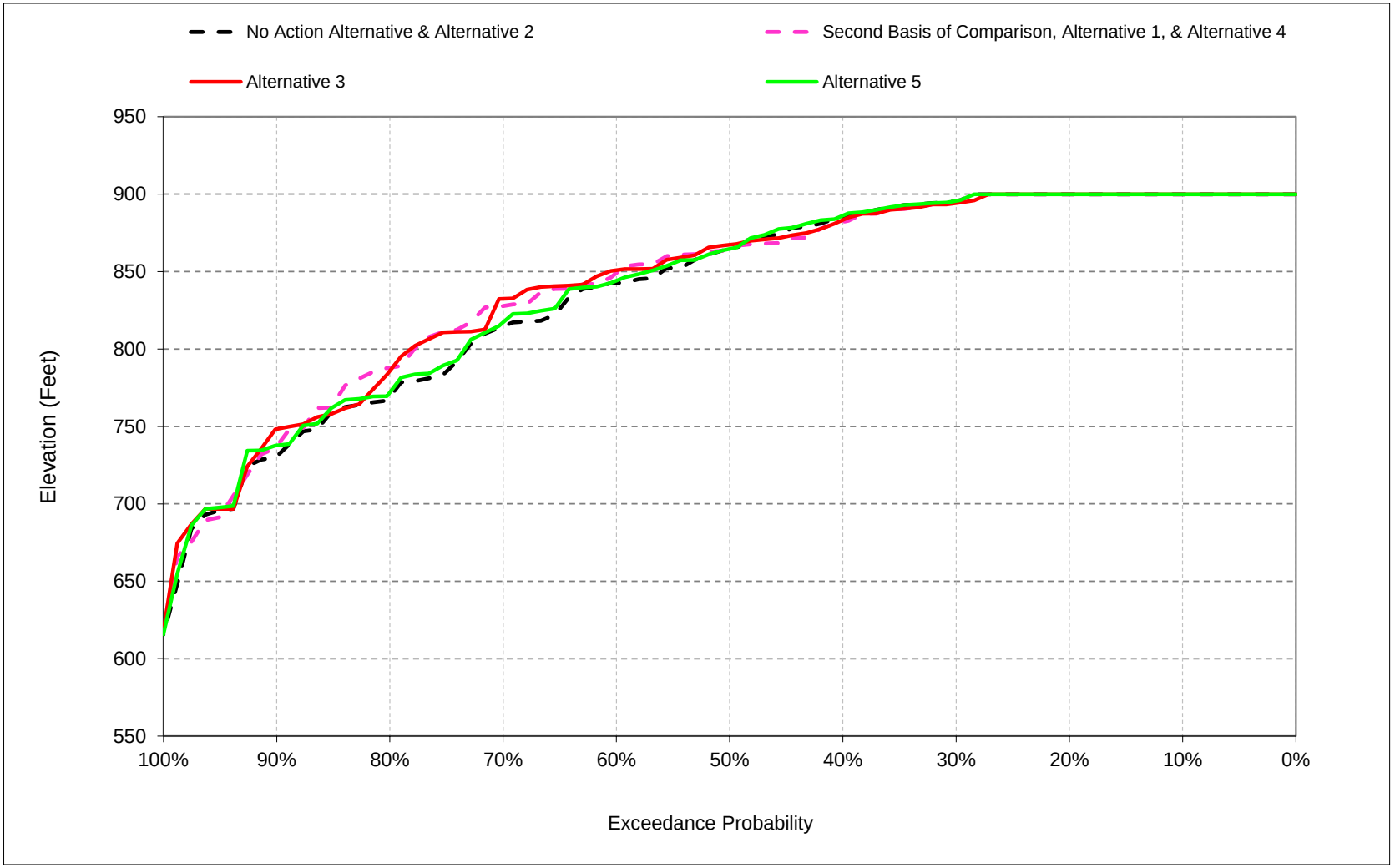
b Based on the 82-year simulation period.

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.

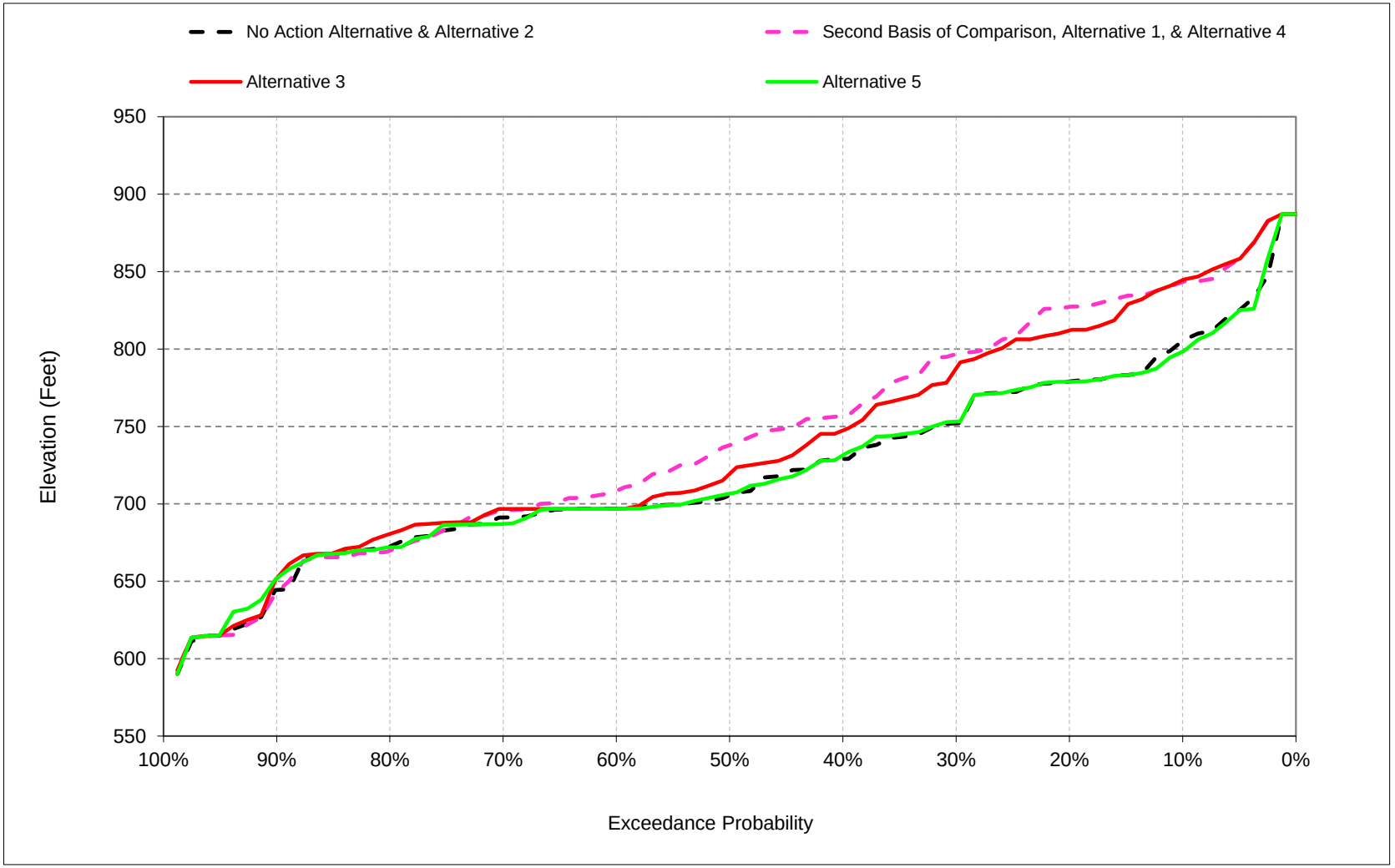
C.10. Oroville Lake Elevation

Figure C-10-1. Lake Oroville, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-10-2. Lake Oroville, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-10-1. Lake Oroville, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	844	849	858	866	887	900	900	866	847	805
20%	760	762	786	837	849	861	884	900	900	860	829	779
30%	742	748	762	813	849	856	882	896	888	846	815	765
40%	716	717	739	776	833	849	877	885	871	827	779	733
50%	697	697	715	751	800	839	858	865	852	804	755	708
60%	687	682	698	740	773	810	836	843	826	765	729	697
70%	679	669	679	704	749	786	805	815	783	723	698	691
80%	668	658	665	685	719	751	773	769	750	696	683	676
90%	650	648	648	668	696	727	749	731	699	679	664	647
Long Term												
Full Simulation Period[b]	711	710	728	758	789	811	831	838	824	783	755	724
Water Year Types[c]												
Wet (32%)	743	748	794	829	852	859	884	897	894	861	836	790
Above Normal (16%)	698	703	722	776	828	856	880	890	879	835	794	746
Below Normal (13%)	730	725	726	751	793	818	838	842	828	773	729	704
Dry (24%)	688	683	686	704	737	775	798	800	775	724	702	684
Critical (15%)	674	667	664	678	693	712	715	712	693	663	648	640

Alternative 1

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	832	849	850	860	867	887	900	900	866	853	843
20%	811	814	827	849	852	863	884	900	900	861	835	827
30%	776	786	800	833	849	859	882	896	883	848	823	797
40%	752	761	785	820	849	852	877	882	862	820	783	762
50%	719	721	754	802	834	849	868	865	840	798	762	741
60%	685	679	716	754	797	839	856	849	825	774	740	712
70%	672	667	677	704	770	807	831	828	789	758	719	696
80%	666	662	666	680	733	763	782	788	759	720	695	673
90%	651	644	647	667	691	725	736	737	707	683	666	652
Long Term												
Full Simulation Period[b]	730	729	746	771	799	818	838	842	823	788	762	744
Water Year Types[c]												
Wet (32%)	768	773	810	837	854	859	884	896	891	861	844	831
Above Normal (16%)	717	723	745	796	838	859	882	888	869	826	790	763
Below Normal (13%)	757	752	757	779	812	834	854	852	823	775	743	719
Dry (24%)	706	701	705	721	755	791	814	813	784	748	718	698
Critical (15%)	677	668	668	680	694	715	716	714	691	664	647	636

Alternative 1 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	49	38	5	1	2	1	0	0	0	0	7	38
20%	51	52	40	12	3	2	0	0	0	1	6	48
30%	34	39	37	20	0	3	0	0	-5	2	8	32
40%	36	44	46	44	16	4	0	-3	-9	-7	4	28
50%	22	24	39	51	34	10	10	1	-12	-6	7	34
60%	-2	-2	18	14	24	29	20	6	-1	9	11	14
70%	-7	-2	-2	0	20	20	26	13	6	34	20	5
80%	-2	4	1	-4	15	12	9	19	9	24	12	-3
90%	1	-3	-2	-1	-5	-2	-13	6	8	4	2	5
Long Term												
Full Simulation Period[b]	19	19	18	14	10	7	6	4	-1	5	8	21
Water Year Types[c]												
Wet (32%)	24	25	16	8	3	0	0	-1	-3	0	8	41
Above Normal (16%)	19	21	24	20	10	3	2	-3	-10	-10	-4	18
Below Normal (13%)	27	27	31	28	20	17	16	9	-5	1	14	14
Dry (24%)	18	18	18	17	18	16	15	14	9	24	17	15
Critical (15%)	3	1	3	3	1	3	2	2	-2	0	-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 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 C-10-2. Lake Oroville, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	844	849	858	866	887	900	900	866	847	805
20%	760	762	786	837	849	861	884	900	900	860	829	779
30%	742	748	762	813	849	856	882	896	888	846	815	765
40%	716	717	739	776	833	849	877	885	871	827	779	733
50%	697	697	715	751	800	839	858	865	852	804	755	708
60%	687	682	698	740	773	810	836	843	826	765	729	697
70%	679	669	679	704	749	786	805	815	783	723	698	691
80%	668	658	665	685	719	751	773	769	750	696	683	676
90%	650	648	648	668	696	727	749	731	699	679	664	647
Long Term												
Full Simulation Period[b]	711	710	728	758	789	811	831	838	824	783	755	724
Water Year Types[c]												
Wet (32%)	743	748	794	829	852	859	884	897	894	861	836	790
Above Normal (16%)	698	703	722	776	828	856	880	890	879	835	794	746
Below Normal (13%)	730	725	726	751	793	818	838	842	828	773	729	704
Dry (24%)	688	683	686	704	737	775	798	800	775	724	702	684
Critical (15%)	674	667	664	678	693	712	715	712	693	663	648	640

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	839	832	849	850	859	867	887	900	900	866	849	845
20%	793	799	829	849	850	862	884	900	899	856	830	812
30%	773	771	791	826	849	859	882	894	875	833	811	787
40%	745	751	768	811	844	852	877	883	860	815	781	752
50%	699	703	746	794	834	849	869	867	846	794	753	724
60%	691	682	713	750	796	839	855	851	826	769	719	698
70%	680	674	680	710	765	801	831	832	802	741	705	697
80%	670	660	666	686	723	756	786	786	757	709	697	684
90%	652	650	650	669	696	723	748	748	703	687	673	662
Long Term												
Full Simulation Period[b]	727	726	744	770	798	818	838	842	824	783	755	739
Water Year Types[c]												
Wet (32%)	763	767	805	834	853	859	884	895	889	856	836	825
Above Normal (16%)	711	717	738	791	836	859	882	889	872	827	786	758
Below Normal (13%)	758	754	759	781	813	835	854	855	836	780	730	710
Dry (24%)	702	697	703	720	752	789	811	810	779	733	709	691
Critical (15%)	679	671	671	684	699	718	719	718	693	665	648	640

Alternative 3 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	50	38	5	1	2	1	0	0	0	1	2	39
20%	33	37	43	12	1	1	0	0	-1	-4	1	33
30%	31	24	28	13	0	3	0	-1	-13	-13	-4	23
40%	29	34	29	36	11	3	0	-2	-11	-12	2	19
50%	2	6	31	43	33	10	11	3	-6	-10	-2	17
60%	4	1	15	10	23	29	19	8	-1	4	-10	0
70%	1	5	2	6	16	15	26	18	19	18	6	5
80%	1	2	1	2	4	5	13	17	6	13	14	8
90%	1	2	2	1	0	-4	-1	18	4	8	10	15
Long Term												
Full Simulation Period[b]	16	16	15	13	9	7	6	4	-1	0	1	16
Water Year Types[c]												
Wet (32%)	19	19	11	5	2	0	0	-1	-5	-5	0	35
Above Normal (16%)	13	14	16	15	9	4	2	-2	-7	-9	-9	13
Below Normal (13%)	28	29	32	30	21	17	16	13	8	6	1	6
Dry (24%)	14	14	16	16	15	13	13	10	3	8	7	7
Critical (15%)	5	5	7	7	6	6	5	6	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 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 C-10-3. Lake Oroville, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	844	849	858	866	887	900	900	866	847	805
20%	760	762	786	837	849	861	884	900	900	860	829	779
30%	742	748	762	813	849	856	882	896	888	846	815	765
40%	716	717	739	776	833	849	877	885	871	827	779	733
50%	697	697	715	751	800	839	858	865	852	804	755	708
60%	687	682	698	740	773	810	836	843	826	765	729	697
70%	679	669	679	704	749	786	805	815	783	723	698	691
80%	668	658	665	685	719	751	773	769	750	696	683	676
90%	650	648	648	668	696	727	749	731	699	679	664	647
Long Term												
Full Simulation Period[b]	711	710	728	758	789	811	831	838	824	783	755	724
Water Year Types[c]												
Wet (32%)	743	748	794	829	852	859	884	897	894	861	836	790
Above Normal (16%)	698	703	722	776	828	856	880	890	879	835	794	746
Below Normal (13%)	730	725	726	751	793	818	838	842	828	773	729	704
Dry (24%)	688	683	686	704	737	775	798	800	775	724	702	684
Critical (15%)	674	667	664	678	693	712	715	712	693	663	648	640

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	847	849	858	866	887	900	900	864	843	798
20%	760	762	787	840	849	861	884	900	900	860	830	779
30%	742	747	763	810	849	856	882	896	888	847	815	765
40%	716	712	735	776	833	849	877	886	872	829	783	736
50%	697	698	720	753	801	839	858	865	853	805	757	710
60%	688	685	698	740	777	812	836	844	830	769	720	697
70%	679	673	679	705	751	787	806	817	788	725	697	689
80%	668	662	667	687	721	753	774	772	754	696	684	673
90%	648	648	649	671	698	727	748	738	704	687	673	658
Long Term												
Full Simulation Period[b]	711	710	729	758	789	812	832	839	826	785	755	724
Water Year Types[c]												
Wet (32%)	742	746	793	829	852	859	884	897	894	860	835	789
Above Normal (16%)	698	701	720	775	827	856	880	891	880	836	795	747
Below Normal (13%)	731	726	728	752	794	818	839	845	831	777	730	704
Dry (24%)	691	685	688	706	738	777	799	804	779	727	703	685
Critical (15%)	676	668	665	679	694	712	716	715	696	667	650	642

Alternative 5 minus No Action Alternative

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

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	832	849	850	860	867	887	900	900	866	853	843
20%	811	814	827	849	852	863	884	900	900	861	835	827
30%	776	786	800	833	849	859	882	896	883	848	823	797
40%	752	761	785	820	849	852	877	882	862	820	783	762
50%	719	721	754	802	834	849	868	865	840	798	762	741
60%	685	679	716	754	797	839	856	849	825	774	740	712
70%	672	667	677	704	770	807	831	828	789	758	719	696
80%	666	662	666	680	733	763	782	788	759	720	695	673
90%	651	644	647	667	691	725	736	737	707	683	666	652
Long Term												
Full Simulation Period[b]	730	729	746	771	799	818	838	842	823	788	762	744
Water Year Types[c]												
Wet (32%)	768	773	810	837	854	859	884	896	891	861	844	831
Above Normal (16%)	717	723	745	796	838	859	882	888	869	826	790	763
Below Normal (13%)	757	752	757	779	812	834	854	852	823	775	743	719
Dry (24%)	706	701	705	721	755	791	814	813	784	748	718	698
Critical (15%)	677	668	668	680	694	715	716	714	691	664	647	636

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	844	849	858	866	887	900	900	866	847	805
20%	760	762	786	837	849	861	884	900	900	860	829	779
30%	742	748	762	813	849	856	882	896	888	846	815	765
40%	716	717	739	776	833	849	877	885	871	827	779	733
50%	697	697	715	751	800	839	858	865	852	804	755	708
60%	687	682	698	740	773	810	836	843	826	765	729	697
70%	679	669	679	704	749	786	805	815	783	723	698	691
80%	668	658	665	685	719	751	773	769	750	696	683	676
90%	650	648	648	668	696	727	749	731	699	679	664	647
Long Term												
Full Simulation Period[b]	711	710	728	758	789	811	831	838	824	783	755	724
Water Year Types[c]												
Wet (32%)	743	748	794	829	852	859	884	897	894	861	836	790
Above Normal (16%)	698	703	722	776	828	856	880	890	879	835	794	746
Below Normal (13%)	730	725	726	751	793	818	838	842	828	773	729	704
Dry (24%)	688	683	686	704	737	775	798	800	775	724	702	684
Critical (15%)	674	667	664	678	693	712	715	712	693	663	648	640

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-49	-38	-5	-1	-2	-1	0	0	0	0	-7	-38
20%	-51	-52	-40	-12	-3	-2	0	0	0	-1	-6	-48
30%	-34	-39	-37	-20	0	-3	0	0	5	-2	-8	-32
40%	-36	-44	-46	-44	-16	-4	0	3	9	7	-4	-28
50%	-22	-24	-39	-51	-34	-10	-10	-1	12	6	-7	-34
60%	2	2	-18	-14	-24	-29	-20	-6	1	-9	-11	-14
70%	7	2	2	0	-20	-20	-26	-13	-6	-34	-20	-5
80%	2	-4	-1	4	-15	-12	-9	-19	-9	-24	-12	3
90%	-1	3	2	1	5	2	13	-6	-8	-4	-2	-5
Long Term												
Full Simulation Period[b]	-19	-19	-18	-14	-10	-7	-6	-4	1	-5	-8	-21
Water Year Types[c]												
Wet (32%)	-24	-25	-16	-8	-3	0	0	1	3	0	-8	-41
Above Normal (16%)	-19	-21	-24	-20	-10	-3	-2	3	10	10	4	-18
Below Normal (13%)	-27	-27	-31	-28	-20	-17	-16	-9	5	-1	-14	-14
Dry (24%)	-18	-18	-18	-17	-18	-16	-15	-14	-9	-24	-17	-15
Critical (15%)	-3	-1	-3	-3	-1	-3	-2	-2	2	0	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 C-10-5. Lake Oroville, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	832	849	850	860	867	887	900	900	866	853	843
20%	811	814	827	849	852	863	884	900	900	861	835	827
30%	776	786	800	833	849	859	882	896	883	848	823	797
40%	752	761	785	820	849	852	877	882	862	820	783	762
50%	719	721	754	802	834	849	868	865	840	798	762	741
60%	685	679	716	754	797	839	856	849	825	774	740	712
70%	672	667	677	704	770	807	831	828	789	758	719	696
80%	666	662	666	680	733	763	782	788	759	720	695	673
90%	651	644	647	667	691	725	736	737	707	683	666	652
Long Term												
Full Simulation Period[b]	730	729	746	771	799	818	838	842	823	788	762	744
Water Year Types[c]												
Wet (32%)	768	773	810	837	854	859	884	896	891	861	844	831
Above Normal (16%)	717	723	745	796	838	859	882	888	869	826	790	763
Below Normal (13%)	757	752	757	779	812	834	854	852	823	775	743	719
Dry (24%)	706	701	705	721	755	791	814	813	784	748	718	698
Critical (15%)	677	668	668	680	694	715	716	714	691	664	647	636

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	839	832	849	850	859	867	887	900	900	866	849	845
20%	793	799	829	849	850	862	884	900	899	856	830	812
30%	773	771	791	826	849	859	882	894	875	833	811	787
40%	745	751	768	811	844	852	877	883	860	815	781	752
50%	699	703	746	794	834	849	869	867	846	794	753	724
60%	691	682	713	750	796	839	855	851	826	769	719	698
70%	680	674	680	710	765	801	831	832	802	741	705	697
80%	670	660	666	686	723	756	786	786	757	709	697	684
90%	652	650	650	669	696	723	748	748	703	687	673	662
Long Term												
Full Simulation Period[b]	727	726	744	770	798	818	838	842	824	783	755	739
Water Year Types[c]												
Wet (32%)	763	767	805	834	853	859	884	895	889	856	836	825
Above Normal (16%)	711	717	738	791	836	859	882	889	872	827	786	758
Below Normal (13%)	758	754	759	781	813	835	854	855	836	780	730	710
Dry (24%)	702	697	703	720	752	789	811	810	779	733	709	691
Critical (15%)	679	671	671	684	699	718	719	718	693	665	648	640

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2	0	0	0	0	0	0	0	0	1	-4	1
20%	-18	-15	2	0	-2	0	0	0	-1	-5	-5	-15
30%	-3	-15	-9	-7	0	0	0	-1	-7	-14	-12	-9
40%	-7	-10	-17	-9	-4	0	0	1	-2	-5	-2	-10
50%	-20	-19	-8	-8	-1	0	1	2	6	-4	-9	-17
60%	6	3	-3	-5	-1	0	0	2	1	-5	-21	-14
70%	8	7	4	6	-4	-5	0	5	12	-17	-14	1
80%	4	-2	0	6	-10	-7	4	-2	-3	-11	1	10
90%	1	5	3	2	5	-1	12	11	-4	4	8	10
Long Term												
Full Simulation Period[b]	-3	-3	-2	-1	-1	0	0	0	1	-4	-7	-5
Water Year Types[c]												
Wet (32%)	-5	-6	-4	-2	-1	0	0	0	-2	-5	-8	-6
Above Normal (16%)	-6	-7	-8	-5	-2	1	1	1	3	1	-5	-5
Below Normal (13%)	1	2	2	2	1	1	0	3	13	5	-13	-8
Dry (24%)	-4	-4	-2	-2	-3	-3	-3	-4	-6	-16	-10	-7
Critical (15%)	2	3	3	4	5	3	3	4	2	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 C-10-6. Lake Oroville, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	837	832	849	850	860	867	887	900	900	866	853	843
20%	811	814	827	849	852	863	884	900	900	861	835	827
30%	776	786	800	833	849	859	882	896	883	848	823	797
40%	752	761	785	820	849	852	877	882	862	820	783	762
50%	719	721	754	802	834	849	868	865	840	798	762	741
60%	685	679	716	754	797	839	856	849	825	774	740	712
70%	672	667	677	704	770	807	831	828	789	758	719	696
80%	666	662	666	680	733	763	782	788	759	720	695	673
90%	651	644	647	667	691	725	736	737	707	683	666	652
Long Term												
Full Simulation Period[b]	730	729	746	771	799	818	838	842	823	788	762	744
Water Year Types[c]												
Wet (32%)	768	773	810	837	854	859	884	896	891	861	844	831
Above Normal (16%)	717	723	745	796	838	859	882	888	869	826	790	763
Below Normal (13%)	757	752	757	779	812	834	854	852	823	775	743	719
Dry (24%)	706	701	705	721	755	791	814	813	784	748	718	698
Critical (15%)	677	668	668	680	694	715	716	714	691	664	647	636

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	788	795	847	849	858	866	887	900	900	864	843	798
20%	760	762	787	840	849	861	884	900	900	860	830	779
30%	742	747	763	810	849	856	882	896	888	847	815	765
40%	716	712	735	776	833	849	877	886	872	829	783	736
50%	697	698	720	753	801	839	858	865	853	805	757	710
60%	688	685	698	740	777	812	836	844	830	769	720	697
70%	679	673	679	705	751	787	806	817	788	725	697	689
80%	668	662	667	687	721	753	774	772	754	696	684	673
90%	648	648	649	671	698	727	748	738	704	687	673	658
Long Term												
Full Simulation Period[b]	711	710	729	758	789	812	832	839	826	785	755	724
Water Year Types[c]												
Wet (32%)	742	746	793	829	852	859	884	897	894	860	835	789
Above Normal (16%)	698	701	720	775	827	856	880	891	880	836	795	747
Below Normal (13%)	731	726	728	752	794	818	839	845	831	777	730	704
Dry (24%)	691	685	688	706	738	777	799	804	779	727	703	685
Critical (15%)	676	668	665	679	694	712	716	715	696	667	650	642

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-49	-38	-2	-1	-2	-1	0	0	0	-1	-10	-45
20%	-51	-52	-40	-9	-3	-2	0	0	0	-1	-6	-48
30%	-34	-40	-37	-23	0	-3	0	0	6	-1	-8	-31
40%	-36	-48	-50	-44	-16	-4	0	4	10	9	1	-26
50%	-22	-24	-34	-49	-33	-10	-10	-1	13	7	-4	-32
60%	3	5	-18	-15	-21	-27	-19	-5	5	-5	-20	-15
70%	8	6	2	0	-18	-19	-25	-11	-2	-32	-22	-8
80%	2	0	1	7	-13	-10	-9	-16	-5	-24	-12	0
90%	-3	3	2	4	6	2	12	0	-2	4	8	7
Long Term												
Full Simulation Period[b]	-18	-19	-17	-13	-9	-7	-6	-2	3	-3	-7	-20
Water Year Types[c]												
Wet (32%)	-26	-26	-16	-7	-3	0	0	1	3	-1	-9	-42
Above Normal (16%)	-19	-22	-25	-21	-11	-3	-2	3	11	10	5	-17
Below Normal (13%)	-26	-26	-29	-27	-19	-16	-15	-7	8	2	-13	-14
Dry (24%)	-15	-16	-16	-16	-17	-15	-14	-9	-5	-22	-15	-13
Critical (15%)	-1	0	-2	-1	-1	-3	-1	1	5	4	3	6

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

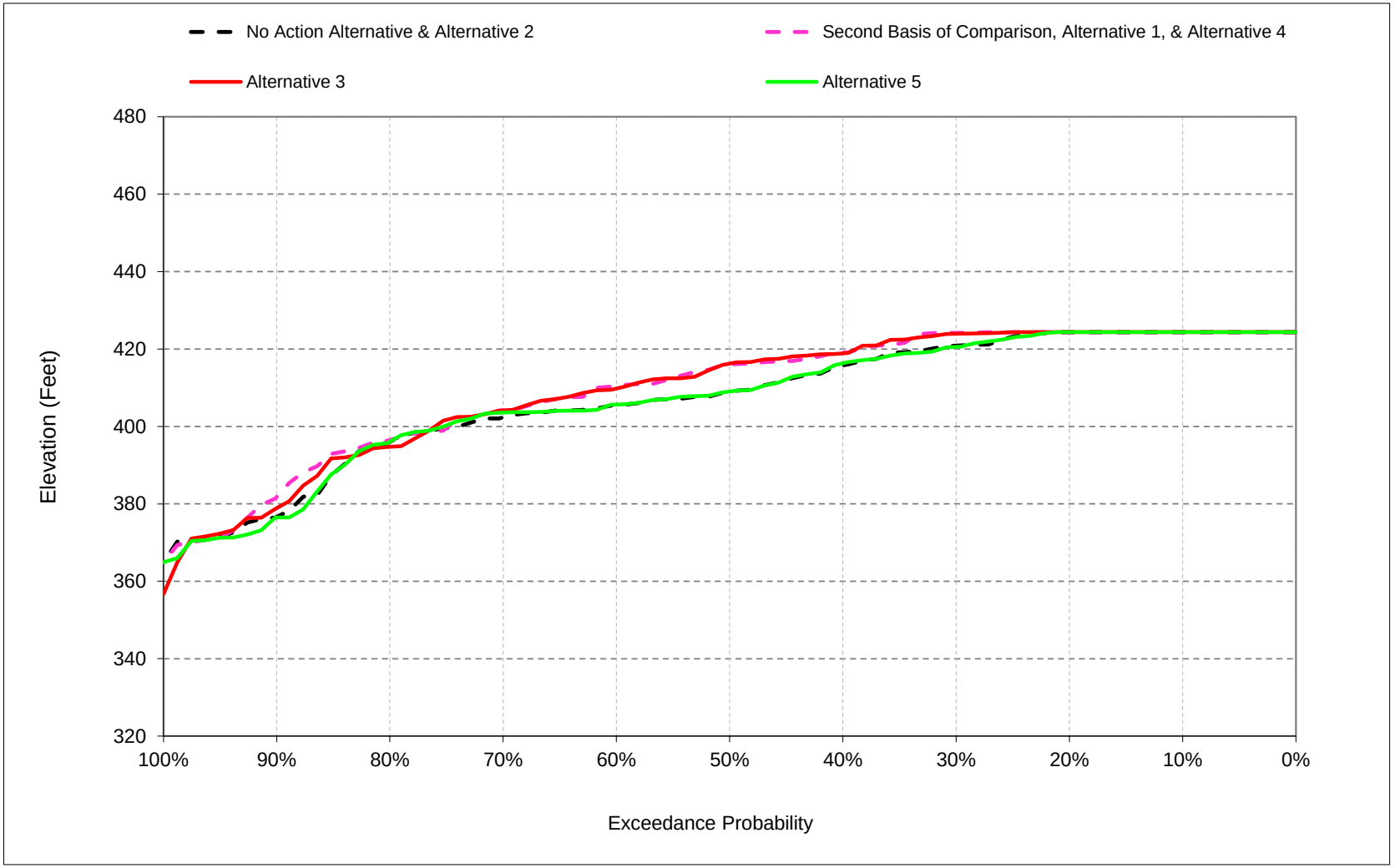
b Based on the 82-year simulation period.

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.

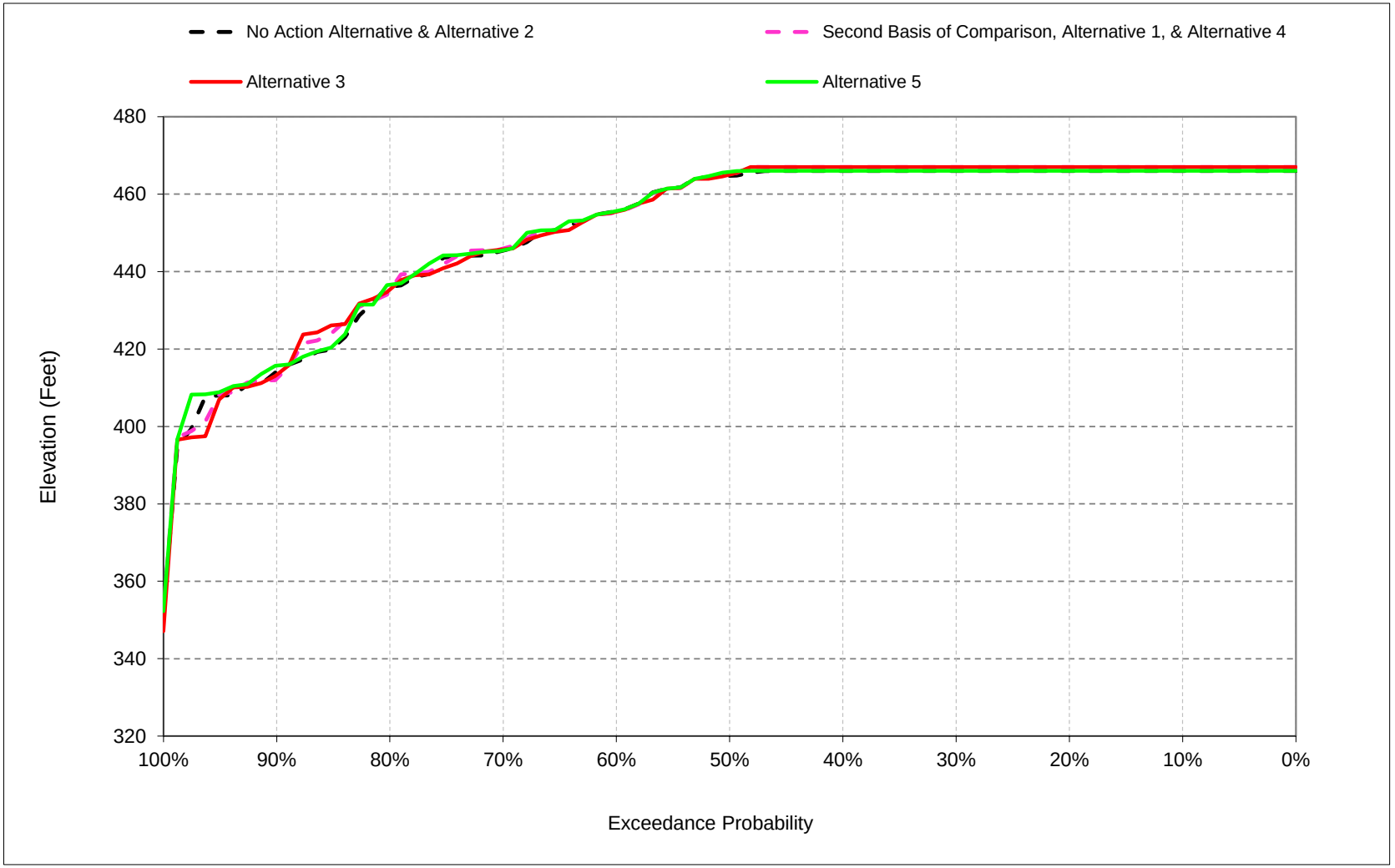
C.11. Folsom Lake Elevation

Figure C-11-1 . Folsom Lake, Reservoir Pool Elevation, December



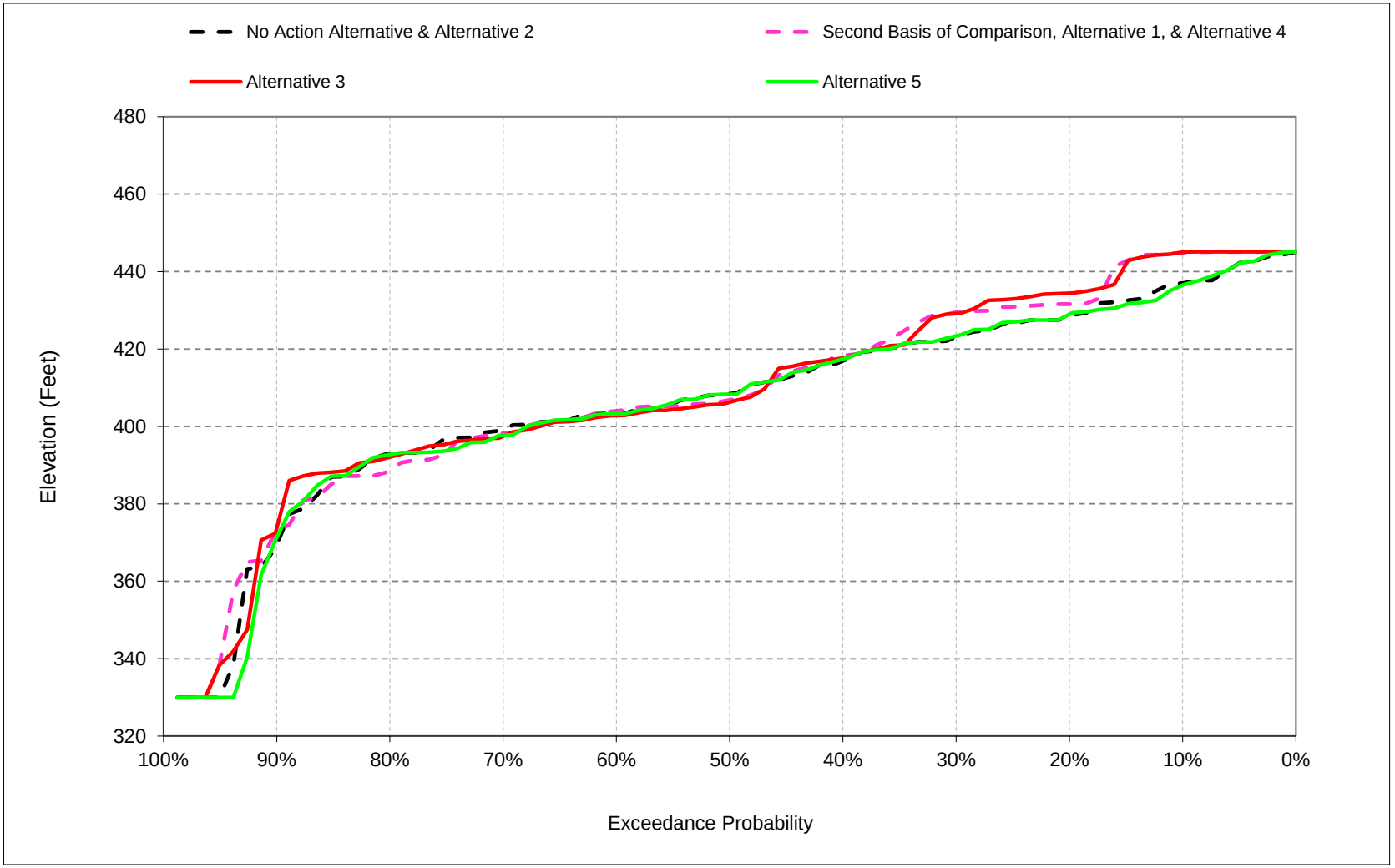
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-11-2. Folsom Lake, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-11-3. Folsom Lake, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-11-1. Folsom Lake, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	460	449	437
20%	421	415	424	424	424	435	449	466	466	453	443	428
30%	416	411	421	423	423	435	449	466	466	444	438	423
40%	410	407	416	421	423	434	449	466	463	436	429	419
50%	405	404	409	413	420	433	449	465	457	427	418	410
60%	397	403	405	409	415	431	449	456	446	419	410	404
70%	393	397	402	407	411	428	443	445	438	407	401	400
80%	387	389	396	399	405	421	432	436	422	401	397	393
90%	373	378	377	388	402	407	413	414	407	392	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	450	444	424	416	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	464	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	430	422	413
Below Normal (13%)	408	406	411	414	420	431	445	454	447	418	411	409
Dry (24%)	400	399	403	405	413	426	438	445	434	414	408	405
Critical (15%)	386	384	389	390	396	406	411	412	401	386	374	366

Alternative 1

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	460	449	445
20%	426	424	424	424	424	436	449	467	467	451	439	432
30%	423	419	424	424	423	435	449	467	467	443	433	429
40%	412	416	419	423	423	434	449	467	460	434	425	419
50%	404	407	416	419	421	433	449	465	450	422	412	408
60%	396	402	410	412	416	431	449	455	444	417	409	405
70%	394	397	404	407	411	429	443	446	432	408	402	399
80%	386	393	396	402	408	424	433	435	422	400	392	391
90%	379	380	382	390	403	410	415	412	407	389	377	375
Long Term												
Full Simulation Period[b]	404	404	410	412	415	427	440	451	444	423	413	409
Water Year Types[c]												
Wet (32%)	412	412	419	419	418	432	448	465	464	449	438	433
Above Normal (16%)	397	400	410	421	421	433	448	465	456	427	419	414
Below Normal (13%)	415	414	416	417	421	432	446	455	443	410	401	398
Dry (24%)	401	401	405	407	414	427	439	446	435	413	406	403
Critical (15%)	389	386	390	391	397	406	410	411	404	391	378	372

Alternative 1 minus No Action Alternative

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

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	460	449	437
20%	421	415	424	424	424	435	449	466	466	453	443	428
30%	416	411	421	423	423	435	449	466	466	444	438	423
40%	410	407	416	421	423	434	449	466	463	436	429	419
50%	405	404	409	413	420	433	449	465	457	427	418	410
60%	397	403	405	409	415	431	449	456	446	419	410	404
70%	393	397	402	407	411	428	443	445	438	407	401	400
80%	387	389	396	399	405	421	432	436	422	401	397	393
90%	373	378	377	388	402	407	413	414	407	392	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	450	444	424	416	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	464	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	430	422	413
Below Normal (13%)	408	406	411	414	420	431	445	454	447	418	411	409
Dry (24%)	400	399	403	405	413	426	438	445	434	414	408	405
Critical (15%)	386	384	389	390	396	406	411	412	401	386	374	366

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	462	449	445
20%	427	424	424	424	424	435	449	467	467	451	441	434
30%	422	421	424	424	423	435	449	467	465	443	434	429
40%	414	415	419	423	423	434	449	467	459	433	424	419
50%	403	408	416	418	422	433	449	465	449	422	412	407
60%	396	402	410	412	416	431	449	455	445	414	408	403
70%	393	397	404	407	411	429	443	446	435	407	401	399
80%	389	393	395	402	408	424	435	435	422	403	395	393
90%	380	381	379	387	402	409	414	413	407	390	385	386
Long Term												
Full Simulation Period[b]	404	404	409	412	415	427	440	451	444	423	414	409
Water Year Types[c]												
Wet (32%)	413	412	419	419	418	432	448	465	463	448	438	433
Above Normal (16%)	395	397	408	421	421	433	448	465	455	425	418	413
Below Normal (13%)	416	415	416	417	421	432	446	454	446	415	404	401
Dry (24%)	401	401	405	407	414	426	438	445	434	414	407	404
Critical (15%)	388	386	390	390	396	406	411	411	403	389	379	372

Alternative 3 minus No Action Alternative

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

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	460	449	437
20%	421	415	424	424	424	435	449	466	466	453	443	428
30%	416	411	421	423	423	435	449	466	466	444	438	423
40%	410	407	416	421	423	434	449	466	463	436	429	419
50%	405	404	409	413	420	433	449	465	457	427	418	410
60%	397	403	405	409	415	431	449	456	446	419	410	404
70%	393	397	402	407	411	428	443	445	438	407	401	400
80%	387	389	396	399	405	421	432	436	422	401	397	393
90%	373	378	377	388	402	407	413	414	407	392	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	450	444	424	416	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	464	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	430	422	413
Below Normal (13%)	408	406	411	414	420	431	445	454	447	418	411	409
Dry (24%)	400	399	403	405	413	426	438	445	434	414	408	405
Critical (15%)	386	384	389	390	396	406	411	412	401	386	374	366

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	457	449	437
20%	421	415	424	424	424	435	449	466	466	452	443	429
30%	416	411	421	423	423	435	449	466	466	444	436	423
40%	410	407	416	421	423	434	449	466	463	437	429	419
50%	405	405	409	413	420	433	449	466	457	428	418	410
60%	397	403	406	410	415	431	449	456	447	419	411	404
70%	393	397	404	406	410	428	444	446	438	408	402	398
80%	387	390	396	399	405	421	432	437	423	401	396	393
90%	374	378	376	388	401	407	414	416	407	393	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	451	444	424	415	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	465	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	431	423	413
Below Normal (13%)	406	405	410	413	420	431	445	454	447	417	411	408
Dry (24%)	400	400	404	406	413	426	438	446	435	413	406	403
Critical (15%)	386	384	389	390	396	406	412	414	400	385	370	365

Alternative 5 minus No Action Alternative

Statistic	End of Month Elevation (Feet)											
	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	-4	0	-1
20%	0	0	0	0	0	0	0	0	0	-1	0	0
30%	1	0	0	0	0	0	0	0	0	0	-2	0
40%	0	0	1	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	1	0	0	0	0
60%	0	0	0	1	0	0	0	0	1	0	1	0
70%	0	0	1	0	-1	0	0	0	0	1	1	-2
80%	0	1	0	1	0	0	-1	1	0	0	-1	0
90%	0	0	0	0	0	0	1	2	0	0	1	1
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	-1	-1	-1
Water Year Types[c]												
Wet (32%)	0	0	0	0	0	0	0	0	0	-1	0	0
Above Normal (16%)	-1	0	0	0	0	0	0	0	0	0	0	0
Below Normal (13%)	-2	-2	-1	0	0	0	0	0	0	-1	0	0
Dry (24%)	0	0	0	0	0	0	0	1	1	-1	-2	-2
Critical (15%)	0	0	0	0	0	0	1	2	-1	-2	-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 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 C-11-4. Folsom Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	460	449	445
20%	426	424	424	424	424	436	449	467	467	451	439	432
30%	423	419	424	424	423	435	449	467	467	443	433	429
40%	412	416	419	423	423	434	449	467	460	434	425	419
50%	404	407	416	419	421	433	449	465	450	422	412	408
60%	396	402	410	412	416	431	449	455	444	417	409	405
70%	394	397	404	407	411	429	443	446	432	408	402	399
80%	386	393	396	402	408	424	433	435	422	400	392	391
90%	379	380	382	390	403	410	415	412	407	389	377	375
Long Term												
Full Simulation Period[b]	404	404	410	412	415	427	440	451	444	423	413	409
Water Year Types[c]												
Wet (32%)	412	412	419	419	418	432	448	465	464	449	438	433
Above Normal (16%)	397	400	410	421	421	433	448	465	456	427	419	414
Below Normal (13%)	415	414	416	417	421	432	446	455	443	410	401	398
Dry (24%)	401	401	405	407	414	427	439	446	435	413	406	403
Critical (15%)	389	386	390	391	397	406	410	411	404	391	378	372

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	460	449	437
20%	421	415	424	424	424	435	449	466	466	453	443	428
30%	416	411	421	423	423	435	449	466	466	444	438	423
40%	410	407	416	421	423	434	449	466	463	436	429	419
50%	405	404	409	413	420	433	449	465	457	427	418	410
60%	397	403	405	409	415	431	449	456	446	419	410	404
70%	393	397	402	407	411	428	443	445	438	407	401	400
80%	387	389	396	399	405	421	432	436	422	401	397	393
90%	373	378	377	388	402	407	413	414	407	392	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	450	444	424	416	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	464	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	430	422	413
Below Normal (13%)	408	406	411	414	420	431	445	454	447	418	411	409
Dry (24%)	400	399	403	405	413	426	438	445	434	414	408	405
Critical (15%)	386	384	389	390	396	406	411	412	401	386	374	366

No Action Alternative minus Second Basis of Comparison

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

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	460	449	445
20%	426	424	424	424	424	436	449	467	467	451	439	432
30%	423	419	424	424	423	435	449	467	467	443	433	429
40%	412	416	419	423	423	434	449	467	460	434	425	419
50%	404	407	416	419	421	433	449	465	450	422	412	408
60%	396	402	410	412	416	431	449	455	444	417	409	405
70%	394	397	404	407	411	429	443	446	432	408	402	399
80%	386	393	396	402	408	424	433	435	422	400	392	391
90%	379	380	382	390	403	410	415	412	407	389	377	375
Long Term												
Full Simulation Period[b]	404	404	410	412	415	427	440	451	444	423	413	409
Water Year Types[c]												
Wet (32%)	412	412	419	419	418	432	448	465	464	449	438	433
Above Normal (16%)	397	400	410	421	421	433	448	465	456	427	419	414
Below Normal (13%)	415	414	416	417	421	432	446	455	443	410	401	398
Dry (24%)	401	401	405	407	414	427	439	446	435	413	406	403
Critical (15%)	389	386	390	391	397	406	410	411	404	391	378	372

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	462	449	445
20%	427	424	424	424	424	435	449	467	467	451	441	434
30%	422	421	424	424	423	435	449	467	465	443	434	429
40%	414	415	419	423	423	434	449	467	459	433	424	419
50%	403	408	416	418	422	433	449	465	449	422	412	407
60%	396	402	410	412	416	431	449	455	445	414	408	403
70%	393	397	404	407	411	429	443	446	435	407	401	399
80%	389	393	395	402	408	424	435	435	422	403	395	393
90%	380	381	379	387	402	409	414	413	407	390	385	386
Long Term												
Full Simulation Period[b]	404	404	409	412	415	427	440	451	444	423	414	409
Water Year Types[c]												
Wet (32%)	413	412	419	419	418	432	448	465	463	448	438	433
Above Normal (16%)	395	397	408	421	421	433	448	465	455	425	418	413
Below Normal (13%)	416	415	416	417	421	432	446	454	446	415	404	401
Dry (24%)	401	401	405	407	414	426	438	445	434	414	407	404
Critical (15%)	388	386	390	390	396	406	411	411	403	389	379	372

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	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	1	0	0
20%	1	0	0	0	0	0	0	0	0	0	2	3
30%	-1	1	0	0	0	0	0	0	-1	0	1	0
40%	2	-1	0	0	0	0	0	0	-1	-1	0	0
50%	-1	0	0	0	1	0	0	0	-1	0	0	0
60%	-1	0	-1	0	0	0	0	0	0	-2	-1	-1
70%	-1	0	0	0	0	0	0	0	3	0	-1	0
80%	2	-1	-2	0	0	0	2	0	0	3	4	2
90%	1	0	-3	-2	-1	-1	-1	1	0	1	8	11
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	1	0
Water Year Types[c]												
Wet (32%)	1	1	0	0	0	0	0	0	-1	0	0	0
Above Normal (16%)	-2	-3	-3	0	0	0	0	0	-1	-1	-1	-1
Below Normal (13%)	1	1	0	0	0	0	0	0	3	5	3	3
Dry (24%)	0	0	0	0	-1	-1	-1	-1	-1	1	0	0
Critical (15%)	-1	0	0	0	0	0	0	0	0	-2	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.

Table C-11-6. Folsom Lake, End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	424	424	424	424	436	449	467	467	460	449	445
20%	426	424	424	424	424	436	449	467	467	451	439	432
30%	423	419	424	424	423	435	449	467	467	443	433	429
40%	412	416	419	423	423	434	449	467	460	434	425	419
50%	404	407	416	419	421	433	449	465	450	422	412	408
60%	396	402	410	412	416	431	449	455	444	417	409	405
70%	394	397	404	407	411	429	443	446	432	408	402	399
80%	386	393	396	402	408	424	433	435	422	400	392	391
90%	379	380	382	390	403	410	415	412	407	389	377	375
Long Term												
Full Simulation Period[b]	404	404	410	412	415	427	440	451	444	423	413	409
Water Year Types[c]												
Wet (32%)	412	412	419	419	418	432	448	465	464	449	438	433
Above Normal (16%)	397	400	410	421	421	433	448	465	456	427	419	414
Below Normal (13%)	415	414	416	417	421	432	446	455	443	410	401	398
Dry (24%)	401	401	405	407	414	427	439	446	435	413	406	403
Critical (15%)	389	386	390	391	397	406	410	411	404	391	378	372

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	427	420	424	424	424	436	449	466	466	457	449	437
20%	421	415	424	424	424	435	449	466	466	452	443	429
30%	416	411	421	423	423	435	449	466	466	444	436	423
40%	410	407	416	421	423	434	449	466	463	437	429	419
50%	405	405	409	413	420	433	449	466	457	428	418	410
60%	397	403	406	410	415	431	449	456	447	419	411	404
70%	393	397	404	406	410	428	444	446	438	408	402	398
80%	387	390	396	399	405	421	432	437	423	401	396	393
90%	374	378	376	388	401	407	414	416	407	393	385	378
Long Term												
Full Simulation Period[b]	401	400	407	410	414	427	440	451	444	424	415	407
Water Year Types[c]												
Wet (32%)	409	407	418	418	418	432	448	465	464	449	440	425
Above Normal (16%)	394	395	405	418	420	433	449	464	458	431	423	413
Below Normal (13%)	406	405	410	413	420	431	445	454	447	417	411	408
Dry (24%)	400	400	404	406	413	426	438	446	435	413	406	403
Critical (15%)	386	384	389	390	396	406	412	414	400	385	370	365

Alternative 5 minus Second Basis of Comparison

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

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

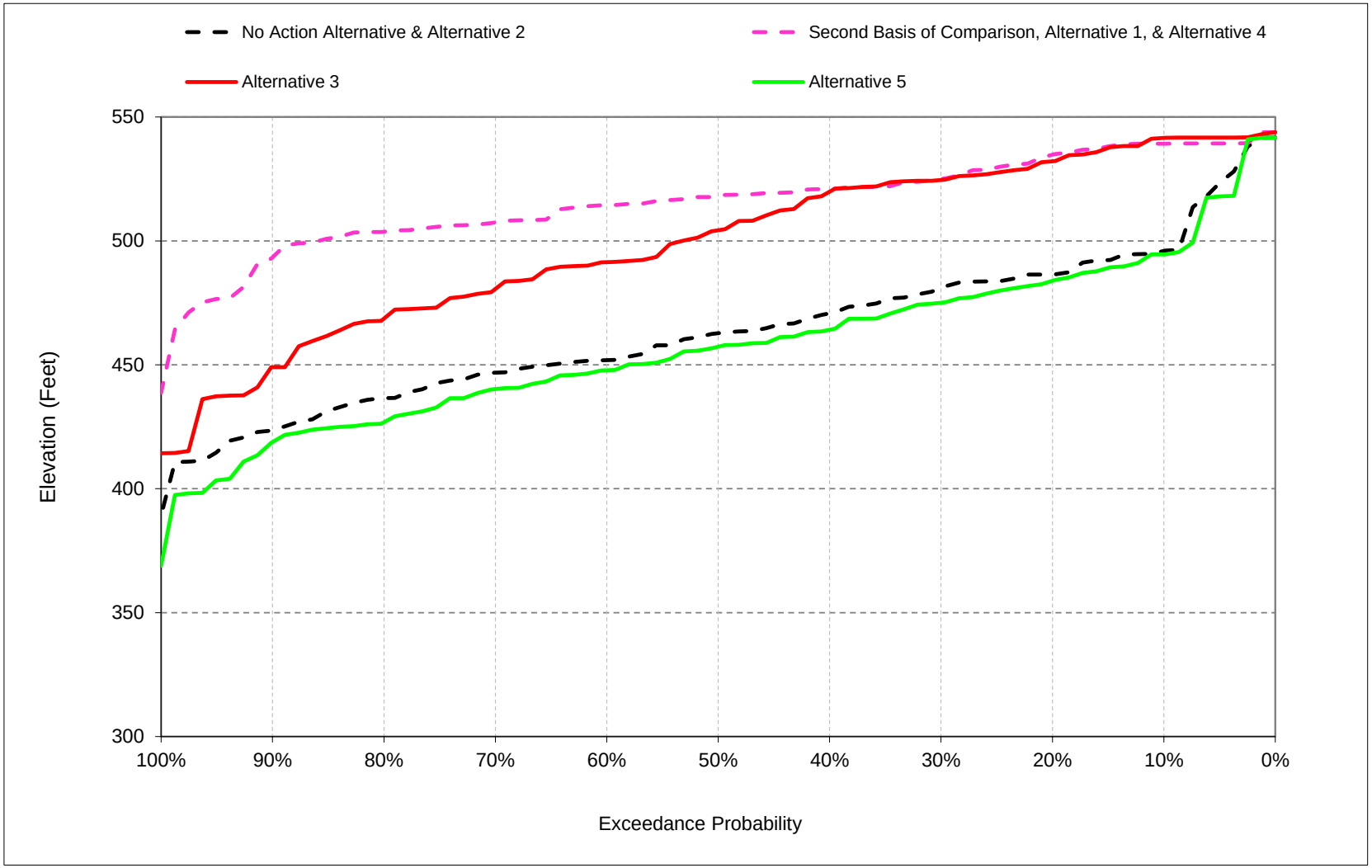
b Based on the 82-year simulation period.

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 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.

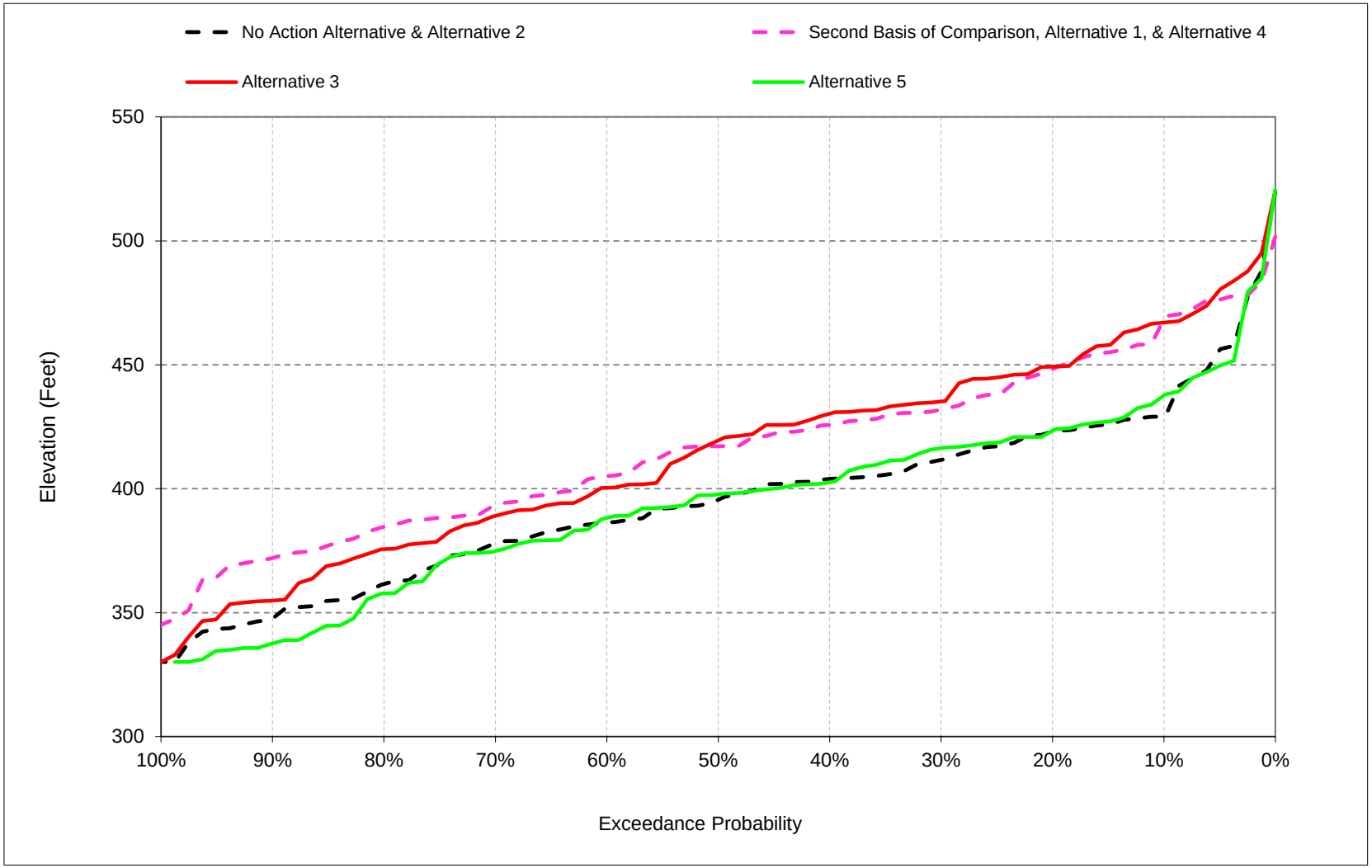
C.12. San Luis Lake Elevation

Figure C-12-1. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-12-2. San Luis Reservoir (SWP and CVP), Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-12-1. San Luis Reservoir (SWP and CVP), 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%	439	456	483	519	543	544	528	496	469	450	435	429
20%	424	437	468	489	511	533	520	487	455	439	417	423
30%	405	425	460	484	506	525	510	481	444	430	405	412
40%	397	416	451	478	499	518	503	471	432	417	398	404
50%	393	407	434	466	491	510	495	463	422	404	388	396
60%	386	395	426	454	478	500	487	452	417	395	381	386
70%	374	386	421	450	467	482	473	447	410	388	369	378
80%	364	377	409	433	457	478	464	437	397	377	357	362
90%	351	369	392	427	447	461	455	424	380	370	347	348
Long Term												
Full Simulation Period[b]	394	409	439	467	488	504	492	464	428	410	391	395
Water Year Types[c]												
Wet (32%)	399	414	443	473	500	523	507	475	444	422	409	416
Above Normal (16%)	391	411	445	472	492	512	493	456	415	389	386	398
Below Normal (13%)	397	410	442	465	481	496	481	448	400	393	383	389
Dry (24%)	391	406	437	466	484	498	490	468	434	426	390	389
Critical (15%)	390	400	423	454	470	475	469	453	422	399	369	366

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%	469	494	519	543	544	544	544	539	520	487	462	468
20%	452	470	503	532	544	544	544	535	504	473	445	448
30%	439	459	491	528	544	544	544	525	497	465	429	432
40%	433	454	478	515	540	544	544	521	486	455	419	426
50%	423	441	467	509	536	544	543	518	481	447	413	417
60%	408	427	459	501	531	544	537	514	476	442	408	405
70%	391	416	450	496	525	539	531	507	473	437	404	393
80%	377	404	438	482	514	530	527	504	468	433	399	385
90%	363	378	416	469	500	518	520	493	459	427	388	372
Long Term												
Full Simulation Period[b]	418	439	468	505	526	536	533	516	484	451	419	416
Water Year Types[c]												
Wet (32%)	426	451	485	520	538	543	543	529	497	468	440	443
Above Normal (16%)	412	437	470	513	534	541	540	518	477	437	409	411
Below Normal (13%)	435	457	483	519	533	539	533	510	476	448	412	406
Dry (24%)	407	425	450	492	518	535	530	513	484	453	415	406
Critical (15%)	409	419	441	475	502	512	509	494	468	432	400	389

Alternative 1 minus 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%	30	38	36	24	1	0	16	43	51	38	27	39
20%	28	33	36	42	32	11	24	48	49	34	29	25
30%	34	34	31	44	37	19	34	44	53	35	24	20
40%	36	38	28	37	41	26	41	50	54	38	21	22
50%	30	35	33	43	44	34	47	55	59	42	25	22
60%	22	32	33	46	53	44	50	63	60	47	27	19
70%	18	30	29	47	58	56	58	61	63	50	35	15
80%	12	27	29	49	57	52	63	67	72	57	42	23
90%	12	9	24	43	53	57	65	70	79	57	41	24
Long Term												
Full Simulation Period[b]	24	30	29	38	38	31	41	52	56	41	28	21
Water Year Types[c]												
Wet (32%)	26	37	42	46	38	20	36	53	53	46	30	27
Above Normal (16%)	21	26	25	41	41	29	47	61	62	48	23	14
Below Normal (13%)	38	47	42	54	52	43	52	62	76	56	30	17
Dry (24%)	17	19	12	25	34	37	40	45	51	27	25	18
Critical (15%)	19	20	18	21	32	38	40	41	45	32	32	24

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 C-12-2. San Luis Reservoir (SWP and CVP), 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%	439	456	483	519	543	544	528	496	469	450	435	429
20%	424	437	468	489	511	533	520	487	455	439	417	423
30%	405	425	460	484	506	525	510	481	444	430	405	412
40%	397	416	451	478	499	518	503	471	432	417	398	404
50%	393	407	434	466	491	510	495	463	422	404	388	396
60%	386	395	426	454	478	500	487	452	417	395	381	386
70%	374	386	421	450	467	482	473	447	410	388	369	378
80%	364	377	409	433	457	478	464	437	397	377	357	362
90%	351	369	392	427	447	461	455	424	380	370	347	348
Long Term												
Full Simulation Period[b]	394	409	439	467	488	504	492	464	428	410	391	395
Water Year Types[c]												
Wet (32%)	399	414	443	473	500	523	507	475	444	422	409	416
Above Normal (16%)	391	411	445	472	492	512	493	456	415	389	386	398
Below Normal (13%)	397	410	442	465	481	496	481	448	400	393	383	389
Dry (24%)	391	406	437	466	484	498	490	468	434	426	390	389
Critical (15%)	390	400	423	454	470	475	469	453	422	399	369	366

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%	475	494	514	532	544	544	544	542	515	493	465	467
20%	451	475	494	517	537	544	544	532	503	477	450	449
30%	442	459	483	506	527	543	541	525	491	465	440	435
40%	432	451	477	498	516	533	538	520	484	451	423	430
50%	423	439	465	489	509	526	522	504	468	444	418	419
60%	402	428	455	482	499	517	514	491	457	432	408	400
70%	380	417	445	473	494	508	503	481	449	421	393	389
80%	372	396	429	459	479	491	490	469	436	408	382	376
90%	356	377	410	439	453	469	471	449	411	392	366	355
Long Term												
Full Simulation Period[b]	416	437	463	487	504	516	515	499	469	443	416	414
Water Year Types[c]												
Wet (32%)	427	452	477	503	525	537	539	529	502	473	447	449
Above Normal (16%)	406	431	459	482	504	520	521	505	467	433	417	420
Below Normal (13%)	431	454	480	497	509	519	512	484	440	423	405	401
Dry (24%)	410	430	456	480	494	508	506	490	464	444	405	397
Critical (15%)	399	409	430	458	472	475	473	457	434	403	375	371

Alternative 3 minus 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%	36	38	31	13	1	0	16	46	46	43	30	38
20%	27	38	27	28	26	11	24	46	48	38	34	26
30%	38	34	23	22	20	19	32	44	47	36	35	24
40%	35	34	26	20	17	15	35	49	52	34	25	26
50%	30	32	31	23	17	16	27	42	46	40	30	24
60%	16	34	30	28	21	17	27	40	40	37	27	14
70%	6	31	24	23	26	25	30	34	39	34	24	11
80%	7	19	20	26	22	13	26	32	39	31	24	14
90%	5	8	18	13	7	8	16	25	31	22	19	7
Long Term												
Full Simulation Period[b]	22	28	24	19	16	11	23	36	41	32	25	19
Water Year Types[c]												
Wet (32%)	28	38	34	29	24	14	32	53	58	52	38	33
Above Normal (16%)	14	21	15	11	11	8	28	49	51	44	31	23
Below Normal (13%)	33	44	39	32	28	23	30	36	40	30	23	12
Dry (24%)	19	24	18	14	10	10	16	23	30	18	15	9
Critical (15%)	9	10	6	4	2	1	4	4	12	4	6	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.

Table C-12-3. San Luis Reservoir (SWP and CVP), 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%	439	456	483	519	543	544	528	496	469	450	435	429
20%	424	437	468	489	511	533	520	487	455	439	417	423
30%	405	425	460	484	506	525	510	481	444	430	405	412
40%	397	416	451	478	499	518	503	471	432	417	398	404
50%	393	407	434	466	491	510	495	463	422	404	388	396
60%	386	395	426	454	478	500	487	452	417	395	381	386
70%	374	386	421	450	467	482	473	447	410	388	369	378
80%	364	377	409	433	457	478	464	437	397	377	357	362
90%	351	369	392	427	447	461	455	424	380	370	347	348
Long Term												
Full Simulation Period[b]	394	409	439	467	488	504	492	464	428	410	391	395
Water Year Types[c]												
Wet (32%)	399	414	443	473	500	523	507	475	444	422	409	416
Above Normal (16%)	391	411	445	472	492	512	493	456	415	389	386	398
Below Normal (13%)	397	410	442	465	481	496	481	448	400	393	383	389
Dry (24%)	391	406	437	466	484	498	490	468	434	426	390	389
Critical (15%)	390	400	423	454	470	475	469	453	422	399	369	366

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%	436	451	482	507	541	544	526	495	473	450	433	438
20%	422	440	466	491	513	534	519	484	454	440	424	423
30%	410	425	457	484	507	527	509	475	440	427	408	416
40%	402	416	452	475	499	518	500	464	423	411	395	403
50%	395	408	440	466	490	509	492	457	419	402	386	398
60%	385	398	426	457	480	498	481	448	412	390	379	388
70%	371	386	421	450	469	489	472	440	400	383	368	375
80%	363	376	408	435	459	479	464	427	389	371	353	358
90%	348	361	391	428	446	457	445	419	377	363	340	338
Long Term												
Full Simulation Period[b]	394	408	438	467	488	504	489	457	422	406	390	394
Water Year Types[c]												
Wet (32%)	402	417	446	475	501	525	509	478	448	427	416	422
Above Normal (16%)	391	408	443	471	492	512	494	456	416	390	386	398
Below Normal (13%)	399	411	443	467	483	498	481	444	397	390	381	388
Dry (24%)	389	404	436	465	483	497	482	451	417	413	381	381
Critical (15%)	383	393	417	450	467	471	460	437	405	383	359	357

Alternative 5 minus 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%	-3	-5	-1	-11	-2	0	-1	-1	5	0	-2	8
20%	-2	3	-2	1	1	2	-1	-3	-1	1	7	0
30%	6	0	-3	1	1	2	-1	-6	-4	-3	2	5
40%	5	-1	1	-3	-1	1	-3	-7	-9	-7	-3	-1
50%	2	1	7	0	-1	-1	-4	-5	-3	-2	-2	2
60%	0	4	0	3	2	-1	-5	-4	-5	-5	-2	2
70%	-3	0	1	1	2	6	-1	-7	-10	-5	-1	-3
80%	-2	-1	-1	3	2	1	0	-10	-7	-6	-4	-4
90%	-3	-7	-1	1	-1	-4	-10	-5	-3	-7	-6	-10
Long Term												
Full Simulation Period[b]	0	-1	0	0	0	0	-3	-6	-6	-4	-2	-1
Water Year Types[c]												
Wet (32%)	3	3	3	1	1	1	2	3	4	5	6	6
Above Normal (16%)	0	-3	-2	-1	0	0	0	0	1	1	1	1
Below Normal (13%)	2	1	2	2	2	2	-1	-4	-3	-3	-2	-1
Dry (24%)	-2	-2	-1	-1	-1	-1	-8	-16	-17	-13	-9	-7
Critical (15%)	-7	-7	-6	-4	-3	-3	-9	-16	-18	-16	-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 C-12-4. San Luis Reservoir (SWP and CVP), End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	469	494	519	543	544	544	544	539	520	487	462	468
20%	452	470	503	532	544	544	544	535	504	473	445	448
30%	439	459	491	528	544	544	544	525	497	465	429	432
40%	433	454	478	515	540	544	544	521	486	455	419	426
50%	423	441	467	509	536	544	543	518	481	447	413	417
60%	408	427	459	501	531	544	537	514	476	442	408	405
70%	391	416	450	496	525	539	531	507	473	437	404	393
80%	377	404	438	482	514	530	527	504	468	433	399	385
90%	363	378	416	469	500	518	520	493	459	427	388	372
Long Term												
Full Simulation Period[b]	418	439	468	505	526	536	533	516	484	451	419	416
Water Year Types[c]												
Wet (32%)	426	451	485	520	538	543	543	529	497	468	440	443
Above Normal (16%)	412	437	470	513	534	541	540	518	477	437	409	411
Below Normal (13%)	435	457	483	519	533	539	533	510	476	448	412	406
Dry (24%)	407	425	450	492	518	535	530	513	484	453	415	406
Critical (15%)	409	419	441	475	502	512	509	494	468	432	400	389

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	439	456	483	519	543	544	528	496	469	450	435	429
20%	424	437	468	489	511	533	520	487	455	439	417	423
30%	405	425	460	484	506	525	510	481	444	430	405	412
40%	397	416	451	478	499	518	503	471	432	417	398	404
50%	393	407	434	466	491	510	495	463	422	404	388	396
60%	386	395	426	454	478	500	487	452	417	395	381	386
70%	374	386	421	450	467	482	473	447	410	388	369	378
80%	364	377	409	433	457	478	464	437	397	377	357	362
90%	351	369	392	427	447	461	455	424	380	370	347	348
Long Term												
Full Simulation Period[b]	394	409	439	467	488	504	492	464	428	410	391	395
Water Year Types[c]												
Wet (32%)	399	414	443	473	500	523	507	475	444	422	409	416
Above Normal (16%)	391	411	445	472	492	512	493	456	415	389	386	398
Below Normal (13%)	397	410	442	465	481	496	481	448	400	393	383	389
Dry (24%)	391	406	437	466	484	498	490	468	434	426	390	389
Critical (15%)	390	400	423	454	470	475	469	453	422	399	369	366

No Action Alternative minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-30	-38	-36	-24	-1	0	-16	-43	-51	-38	-27	-39
20%	-28	-33	-36	-42	-32	-11	-24	-48	-49	-34	-29	-25
30%	-34	-34	-31	-44	-37	-19	-34	-44	-53	-35	-24	-20
40%	-36	-38	-28	-37	-41	-26	-41	-50	-54	-38	-21	-22
50%	-30	-35	-33	-43	-44	-34	-47	-55	-59	-42	-25	-22
60%	-22	-32	-33	-46	-53	-44	-50	-63	-60	-47	-27	-19
70%	-18	-30	-29	-47	-58	-56	-58	-61	-63	-50	-35	-15
80%	-12	-27	-29	-49	-57	-52	-63	-67	-72	-57	-42	-23
90%	-12	-9	-24	-43	-53	-57	-65	-70	-79	-57	-41	-24
Long Term												
Full Simulation Period[b]	-24	-30	-29	-38	-38	-31	-41	-52	-56	-41	-28	-21
Water Year Types[c]												
Wet (32%)	-26	-37	-42	-46	-38	-20	-36	-53	-53	-46	-30	-27
Above Normal (16%)	-21	-26	-25	-41	-41	-29	-47	-61	-62	-48	-23	-14
Below Normal (13%)	-38	-47	-42	-54	-52	-43	-52	-62	-76	-56	-30	-17
Dry (24%)	-17	-19	-12	-25	-34	-37	-40	-45	-51	-27	-25	-18
Critical (15%)	-19	-20	-18	-21	-32	-38	-40	-41	-45	-32	-32	-24

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 C-12-5. San Luis Reservoir (SWP and CVP), End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	469	494	519	543	544	544	544	539	520	487	462	468
20%	452	470	503	532	544	544	544	535	504	473	445	448
30%	439	459	491	528	544	544	544	525	497	465	429	432
40%	433	454	478	515	540	544	544	521	486	455	419	426
50%	423	441	467	509	536	544	543	518	481	447	413	417
60%	408	427	459	501	531	544	537	514	476	442	408	405
70%	391	416	450	496	525	539	531	507	473	437	404	393
80%	377	404	438	482	514	530	527	504	468	433	399	385
90%	363	378	416	469	500	518	520	493	459	427	388	372
Long Term												
Full Simulation Period[b]	418	439	468	505	526	536	533	516	484	451	419	416
Water Year Types[c]												
Wet (32%)	426	451	485	520	538	543	543	529	497	468	440	443
Above Normal (16%)	412	437	470	513	534	541	540	518	477	437	409	411
Below Normal (13%)	435	457	483	519	533	539	533	510	476	448	412	406
Dry (24%)	407	425	450	492	518	535	530	513	484	453	415	406
Critical (15%)	409	419	441	475	502	512	509	494	468	432	400	389

Alternative 3

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	475	494	514	532	544	544	544	542	515	493	465	467
20%	451	475	494	517	537	544	544	532	503	477	450	449
30%	442	459	483	506	527	543	541	525	491	465	440	435
40%	432	451	477	498	516	533	538	520	484	451	423	430
50%	423	439	465	489	509	526	522	504	468	444	418	419
60%	402	428	455	482	499	517	514	491	457	432	408	400
70%	380	417	445	473	494	508	503	481	449	421	393	389
80%	372	396	429	459	479	491	490	469	436	408	382	376
90%	356	377	410	439	453	469	471	449	411	392	366	355
Long Term												
Full Simulation Period[b]	416	437	463	487	504	516	515	499	469	443	416	414
Water Year Types[c]												
Wet (32%)	427	452	477	503	525	537	539	529	502	473	447	449
Above Normal (16%)	406	431	459	482	504	520	521	505	467	433	417	420
Below Normal (13%)	431	454	480	497	509	519	512	484	440	423	405	401
Dry (24%)	410	430	456	480	494	508	506	490	464	444	405	397
Critical (15%)	399	409	430	458	472	475	473	457	434	403	375	371

Alternative 3 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6	0	-4	-11	0	0	0	2	-5	5	3	-1
20%	-1	5	-9	-14	-7	0	0	-3	-1	4	5	1
30%	4	0	-8	-22	-17	0	-3	0	-6	1	11	3
40%	-1	-3	-2	-17	-24	-11	-6	-1	-2	-4	4	5
50%	1	-2	-3	-20	-27	-18	-20	-14	-13	-2	5	2
60%	-6	2	-4	-18	-32	-27	-23	-23	-20	-10	0	-5
70%	-12	1	-5	-24	-31	-31	-28	-27	-24	-16	-11	-4
80%	-5	-8	-9	-23	-35	-39	-37	-35	-33	-26	-18	-9
90%	-7	-1	-6	-30	-47	-49	-49	-44	-48	-35	-22	-17
Long Term												
Full Simulation Period[b]	-2	-1	-5	-18	-22	-20	-19	-17	-15	-9	-3	-2
Water Year Types[c]												
Wet (32%)	1	1	-8	-17	-13	-6	-5	0	5	6	8	6
Above Normal (16%)	-7	-6	-11	-31	-30	-21	-20	-13	-11	-4	8	9
Below Normal (13%)	-4	-3	-3	-22	-24	-20	-22	-26	-36	-26	-7	-4
Dry (24%)	3	5	6	-11	-24	-27	-24	-23	-21	-9	-9	-9
Critical (15%)	-10	-10	-12	-17	-30	-37	-36	-36	-34	-28	-25	-19

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 C-12-6. San Luis Reservoir (SWP and CVP), End of Month Elevation

Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	469	494	519	543	544	544	544	539	520	487	462	468
20%	452	470	503	532	544	544	544	535	504	473	445	448
30%	439	459	491	528	544	544	544	525	497	465	429	432
40%	433	454	478	515	540	544	544	521	486	455	419	426
50%	423	441	467	509	536	544	543	518	481	447	413	417
60%	408	427	459	501	531	544	537	514	476	442	408	405
70%	391	416	450	496	525	539	531	507	473	437	404	393
80%	377	404	438	482	514	530	527	504	468	433	399	385
90%	363	378	416	469	500	518	520	493	459	427	388	372
Long Term												
Full Simulation Period[b]	418	439	468	505	526	536	533	516	484	451	419	416
Water Year Types[c]												
Wet (32%)	426	451	485	520	538	543	543	529	497	468	440	443
Above Normal (16%)	412	437	470	513	534	541	540	518	477	437	409	411
Below Normal (13%)	435	457	483	519	533	539	533	510	476	448	412	406
Dry (24%)	407	425	450	492	518	535	530	513	484	453	415	406
Critical (15%)	409	419	441	475	502	512	509	494	468	432	400	389

Alternative 5

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	436	451	482	507	541	544	526	495	473	450	433	438
20%	422	440	466	491	513	534	519	484	454	440	424	423
30%	410	425	457	484	507	527	509	475	440	427	408	416
40%	402	416	452	475	499	518	500	464	423	411	395	403
50%	395	408	440	466	490	509	492	457	419	402	386	398
60%	385	398	426	457	480	498	481	448	412	390	379	388
70%	371	386	421	450	469	489	472	440	400	383	368	375
80%	363	376	408	435	459	479	464	427	389	371	353	358
90%	348	361	391	428	446	457	445	419	377	363	340	338
Long Term												
Full Simulation Period[b]	394	408	438	467	488	504	489	457	422	406	390	394
Water Year Types[c]												
Wet (32%)	402	417	446	475	501	525	509	478	448	427	416	422
Above Normal (16%)	391	408	443	471	492	512	494	456	416	390	386	398
Below Normal (13%)	399	411	443	467	483	498	481	444	397	390	381	388
Dry (24%)	389	404	436	465	483	497	482	451	417	413	381	381
Critical (15%)	383	393	417	450	467	471	460	437	405	383	359	357

Alternative 5 minus Second Basis of Comparison

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-34	-43	-37	-36	-3	0	-17	-45	-46	-37	-30	-31
20%	-30	-30	-37	-41	-31	-9	-25	-51	-50	-33	-21	-25
30%	-28	-34	-34	-43	-36	-17	-35	-50	-57	-38	-22	-16
40%	-31	-38	-26	-40	-42	-26	-44	-57	-63	-45	-24	-23
50%	-28	-33	-27	-43	-45	-35	-51	-61	-62	-44	-27	-19
60%	-22	-28	-33	-44	-51	-46	-56	-67	-65	-52	-29	-17
70%	-20	-30	-28	-46	-56	-50	-59	-67	-73	-54	-36	-18
80%	-14	-28	-30	-47	-55	-51	-63	-77	-79	-63	-46	-27
90%	-15	-17	-25	-42	-54	-61	-75	-75	-82	-64	-47	-35
Long Term												
Full Simulation Period[b]	-24	-30	-29	-38	-39	-31	-44	-58	-62	-45	-30	-22
Water Year Types[c]												
Wet (32%)	-24	-34	-40	-45	-36	-19	-34	-51	-49	-41	-24	-22
Above Normal (16%)	-21	-29	-28	-42	-41	-29	-47	-62	-61	-47	-23	-13
Below Normal (13%)	-36	-46	-40	-53	-50	-41	-53	-66	-80	-58	-31	-17
Dry (24%)	-18	-21	-14	-26	-35	-38	-48	-62	-68	-39	-34	-25
Critical (15%)	-26	-26	-24	-26	-36	-41	-49	-57	-63	-48	-42	-33

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

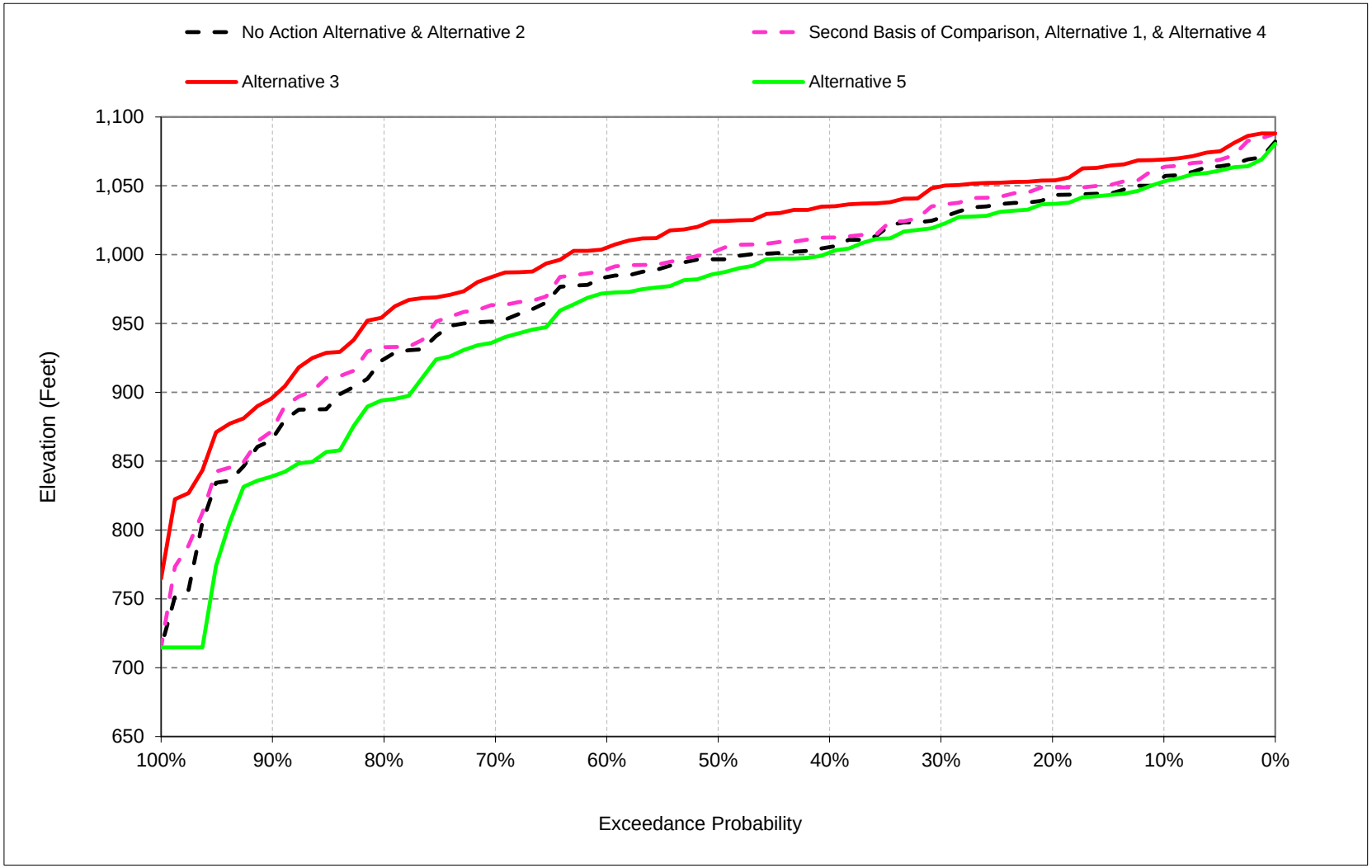
b Based on the 82-year simulation period.

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.

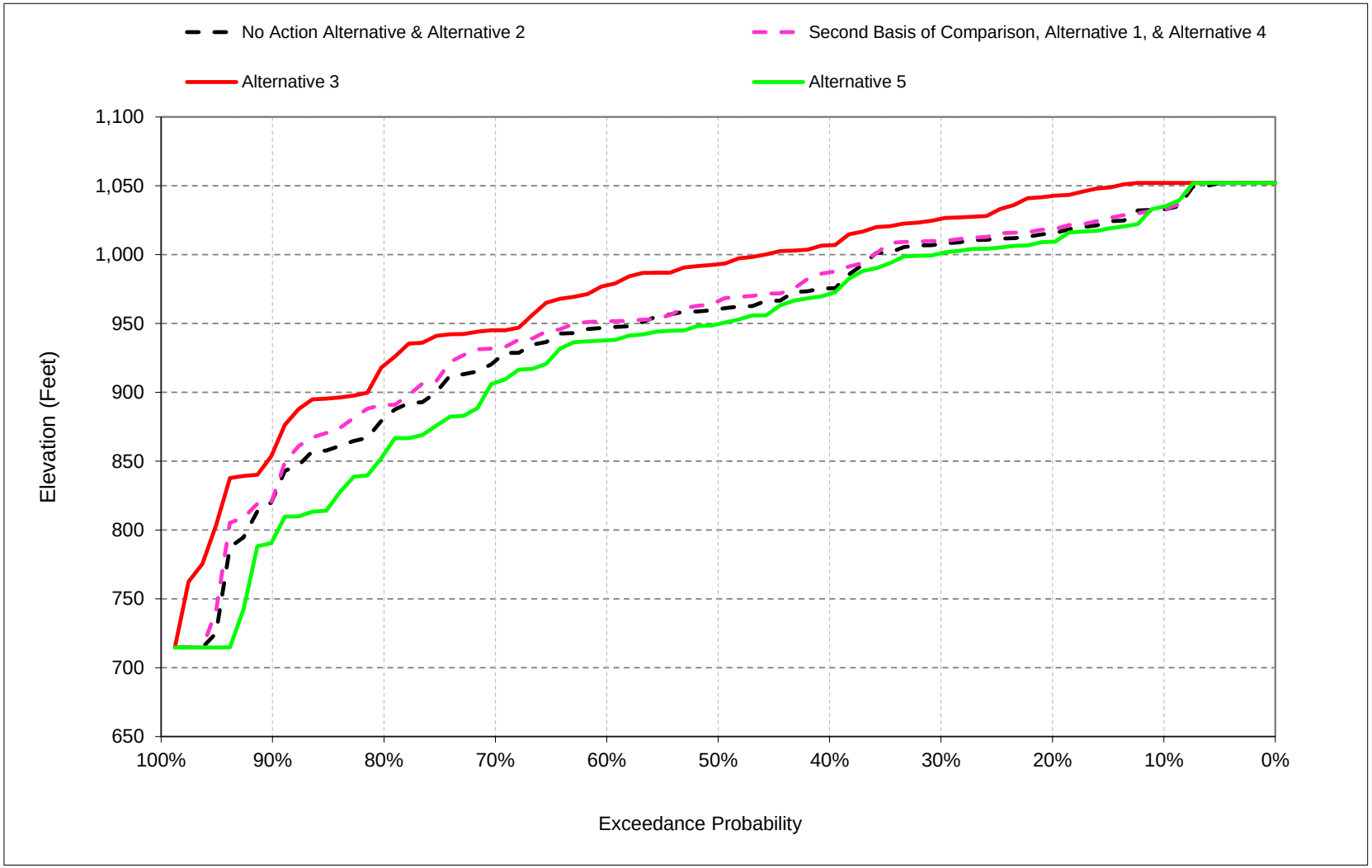
C.13. New Melones Lake Elevation

Figure C-13-1. New Melones Reservoir, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-13-2. New Melones Reservoir, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-13-1. New Melones Reservoir, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	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

Statistic	End of Month Elevation (Feet)											
	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

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

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 C-13-3. New Melones Reservoir, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (Feet)											
	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 5

Statistic	End of Month Elevation (Feet)											
	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 No Action Alternative

Statistic	End of Month Elevation (Feet)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	1	0	2	-1	-4	-3	4	3	3	2
20%	-2	-4	-5	-6	1	0	-8	-6	-6	-6	-6	-6
30%	-7	-8	-7	-5	-6	-6	-1	-5	-6	-7	-7	-6
40%	-3	-3	-9	-8	-7	-5	-8	-4	-3	-3	-5	-3
50%	-11	-9	-1	-10	0	-8	-7	-10	-13	-12	-12	-10
60%	-6	-6	-7	-10	-8	-15	-16	-12	-8	-9	-9	-9
70%	-21	-18	-17	-14	-13	-11	-10	-15	-13	-12	-14	-19
80%	-19	-21	-13	-13	-23	-22	-38	-30	-21	-25	-24	-21
90%	-32	-28	-29	-23	-23	-25	-38	-27	-28	-29	-32	-33
Long Term												
Full Simulation Period[b]	-12	-12	-12	-11	-11	-10	-12	-14	-13	-13	-13	-13
Water Year Types[c]												
Wet (32%)	-11	-11	-10	-9	-8	-7	-7	-7	-7	-7	-6	-6
Above Normal (16%)	-8	-7	-6	-6	-6	-6	-6	-8	-8	-9	-10	-7
Below Normal (13%)	-13	-13	-13	-13	-12	-12	-13	-15	-15	-15	-16	-16
Dry (24%)	-13	-13	-12	-13	-12	-12	-15	-17	-17	-17	-17	-17
Critical (15%)	-19	-18	-20	-19	-17	-16	-26	-30	-25	-24	-22	-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.

Table C-13-4. 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

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

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

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

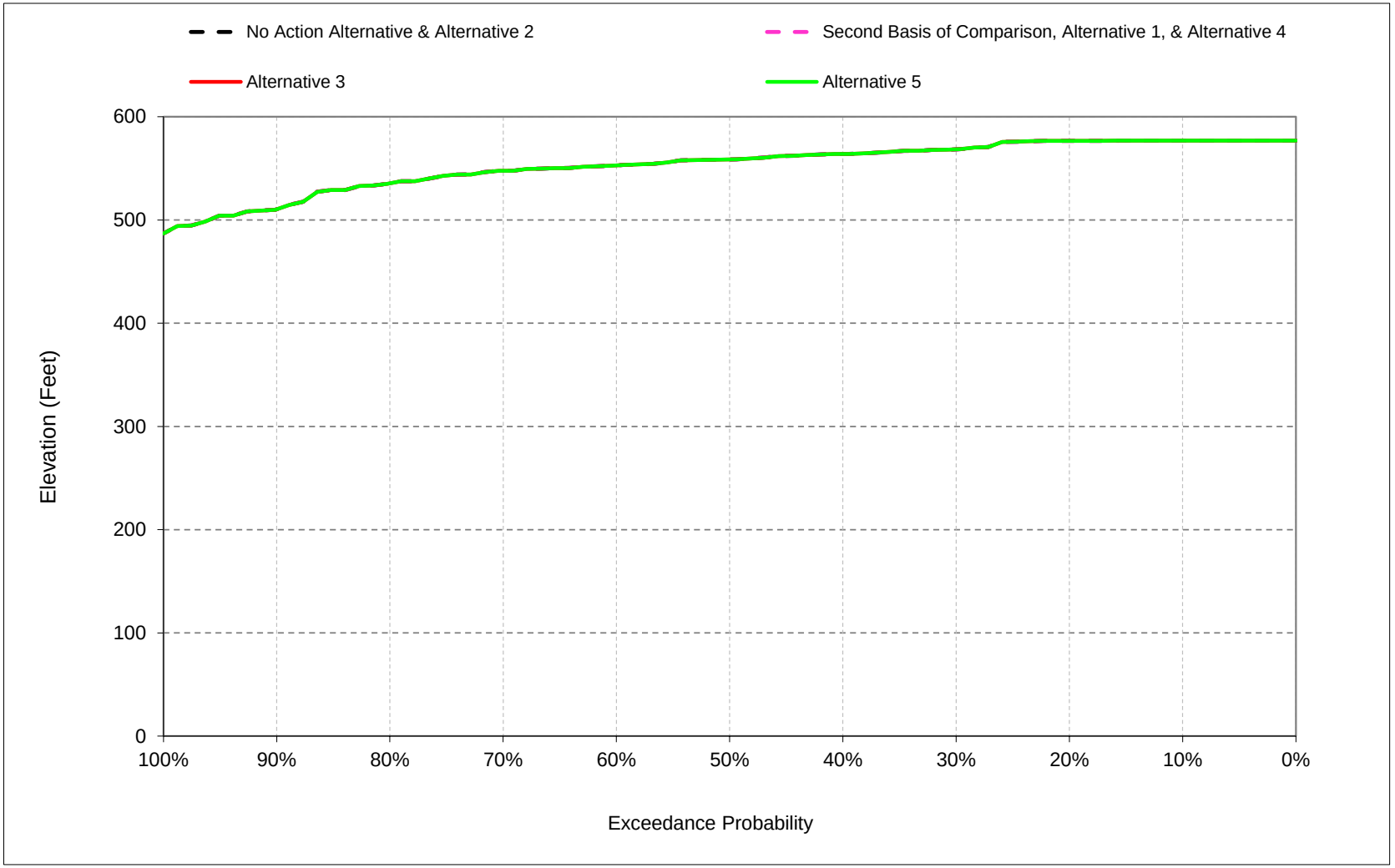
b Based on the 82-year simulation period.

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.

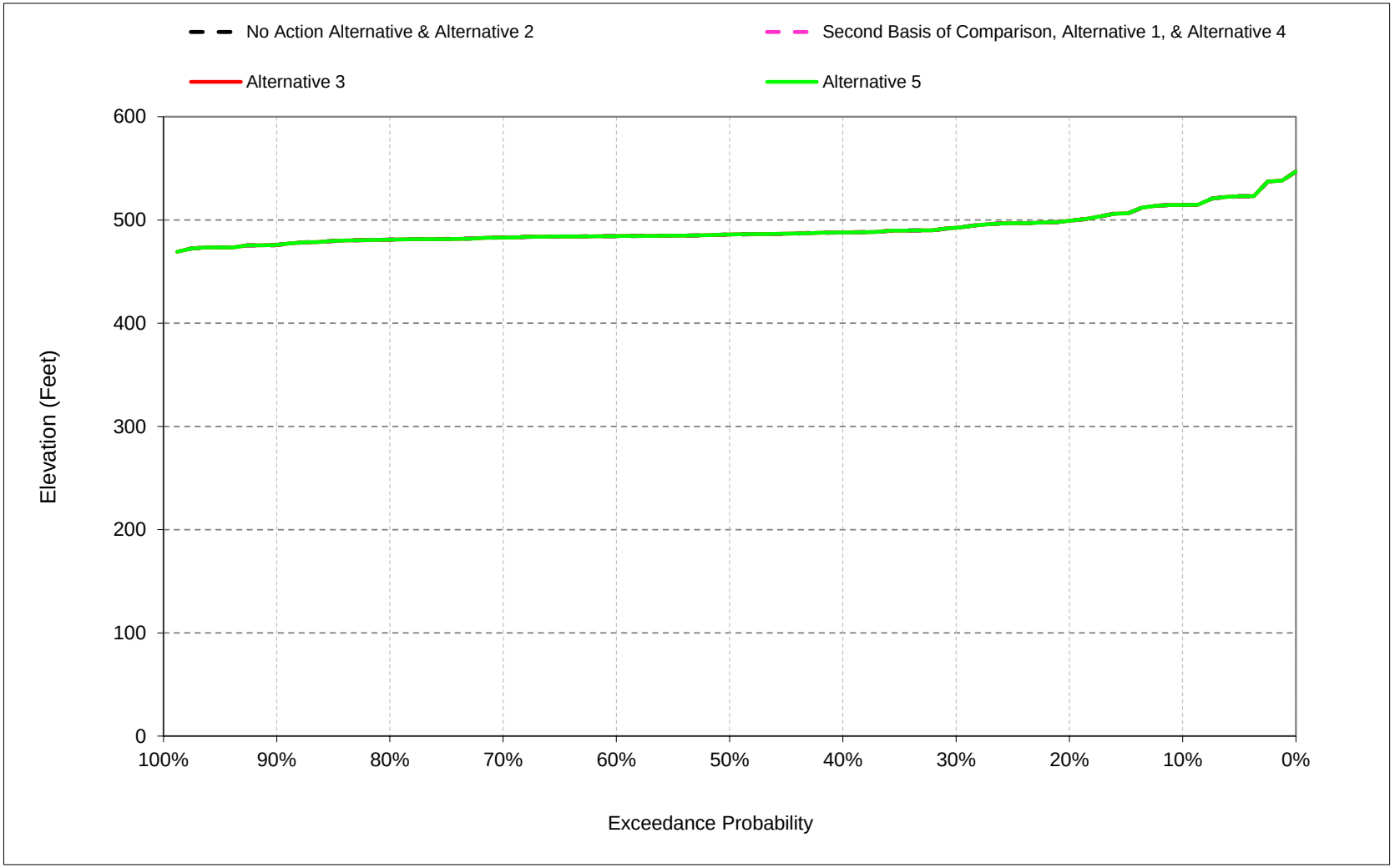
C.14. Millerton Lake Elevation

Figure C-14-1. Millerton Lake, Reservoir Pool Elevation, May



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-14-2. Millerton Lake, Reservoir Pool Elevation, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-14-1. Millerton Lake, End of Month Elevation

No Action Alternative

	End of Month Elevation (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 1

	End of Month Elevation (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 1 minus No Action Alternative

	End of Month Elevation (TAF)											
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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 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 C-14-2. Millerton Lake, End of Month Elevation

No Action Alternative

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 3

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 3 minus No Action Alternative

	End of Month Elevation (TAF)											
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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-14-3. Millerton Lake, End of Month Elevation

No Action Alternative

Statistic	End of Month Elevation (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 5

Statistic	End of Month Elevation (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 5 minus No Action Alternative

Statistic	End of Month Elevation (TAF)											
	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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-14-4. Millerton Lake, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

No Action Alternative

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

No Action Alternative minus Second Basis of Comparison

	End of Month Elevation (TAF)											
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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-14-5. Millerton Lake, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 3

	End of Month Elevation (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 3 minus Second Basis of Comparison

	End of Month Elevation (TAF)											
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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	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 C-14-6. Millerton Lake, End of Month Elevation

Second Basis of Comparison

	End of Month Elevation (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 5

	End of Month Elevation (TAF)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	515	524	546	561	561	568	570	577	577	571	530	515
20%	503	517	532	555	561	568	562	577	576	559	515	499
30%	498	512	525	540	561	567	557	568	573	543	498	493
40%	493	502	518	536	556	560	551	564	568	533	490	488
50%	491	498	513	528	549	551	546	559	556	522	486	486
60%	486	492	506	523	537	545	538	553	551	514	482	484
70%	483	485	499	514	531	534	529	548	544	504	479	483
80%	479	481	493	506	517	519	517	536	531	493	477	481
90%	475	475	483	490	496	496	503	510	510	479	467	477
Long Term												
Full Simulation Period[b]	493	500	513	527	538	542	539	553	552	524	494	491
Water Year Types[c]												
Wet (23%)	494	502	527	547	558	562	538	556	574	565	528	512
Above Normal (24%)	494	502	516	536	555	562	551	570	572	541	497	487
Below Normal (10%)	490	502	511	524	540	542	539	552	550	521	488	487
Dry (16%)	498	507	516	526	533	535	546	556	545	505	479	487
Critical (27%)	488	490	497	503	508	511	526	533	518	486	472	482

Alternative 5 minus Second Basis of Comparison

	End of Month Elevation (TAF)											
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	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (23%)	0	0	0	0	0	0	0	0	0	0	0	0
Above Normal (24%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal (10%)	0	0	0	0	0	0	0	0	0	0	0	0
Dry (16%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical (27%)	0	0	0	0	0	0	0	0	0	0	0	0

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

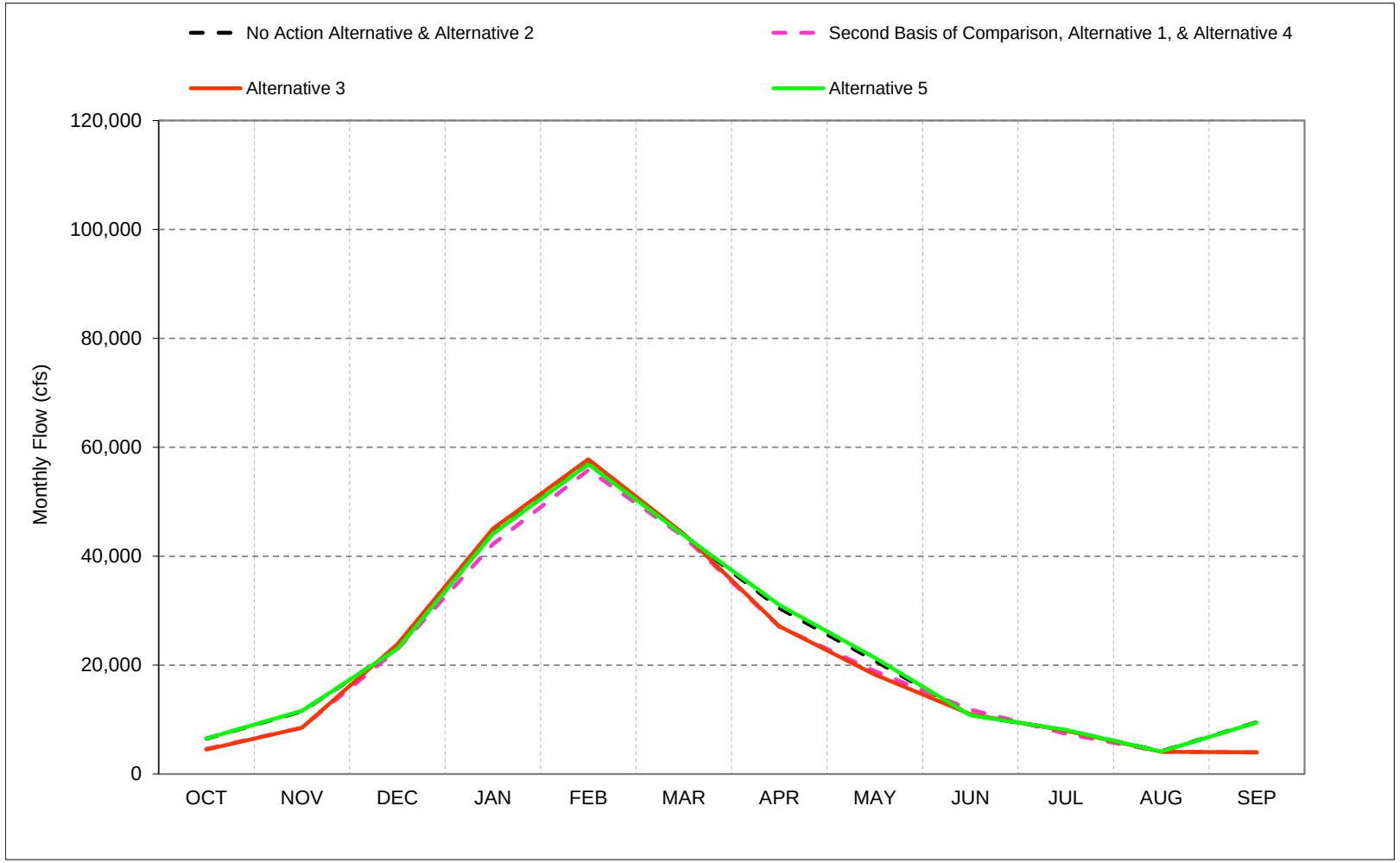
b Based on the 82-year simulation period.

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.

C.15. Delta Outflow

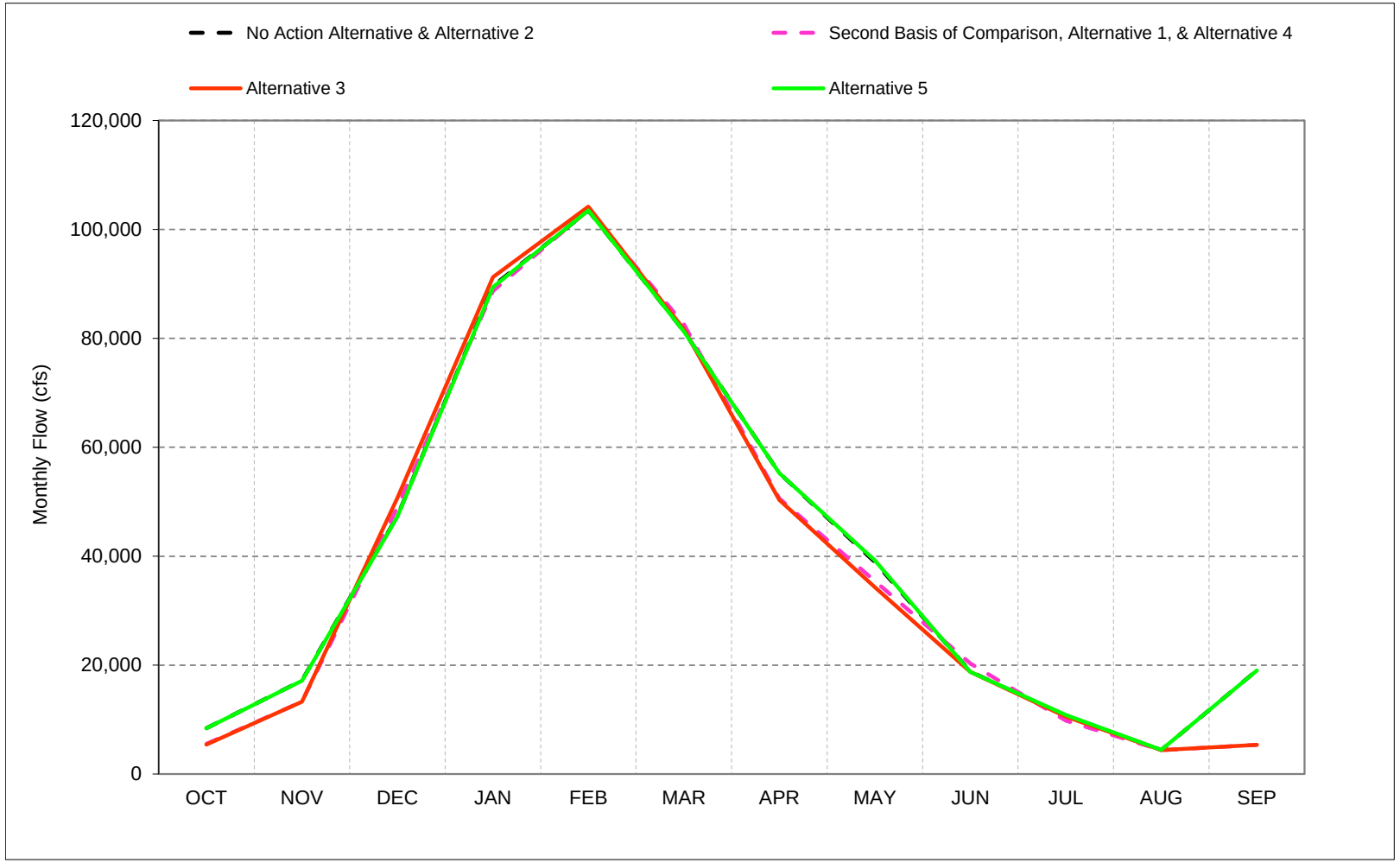
Figure C-15-1-1. Sacramento/San Joaquin River Delta Outflow, Long-Term* Average Flow



*Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-15-1-2. Sacramento/San Joaquin River Delta Outflow, Wet Year* Long-Term Average Flow**

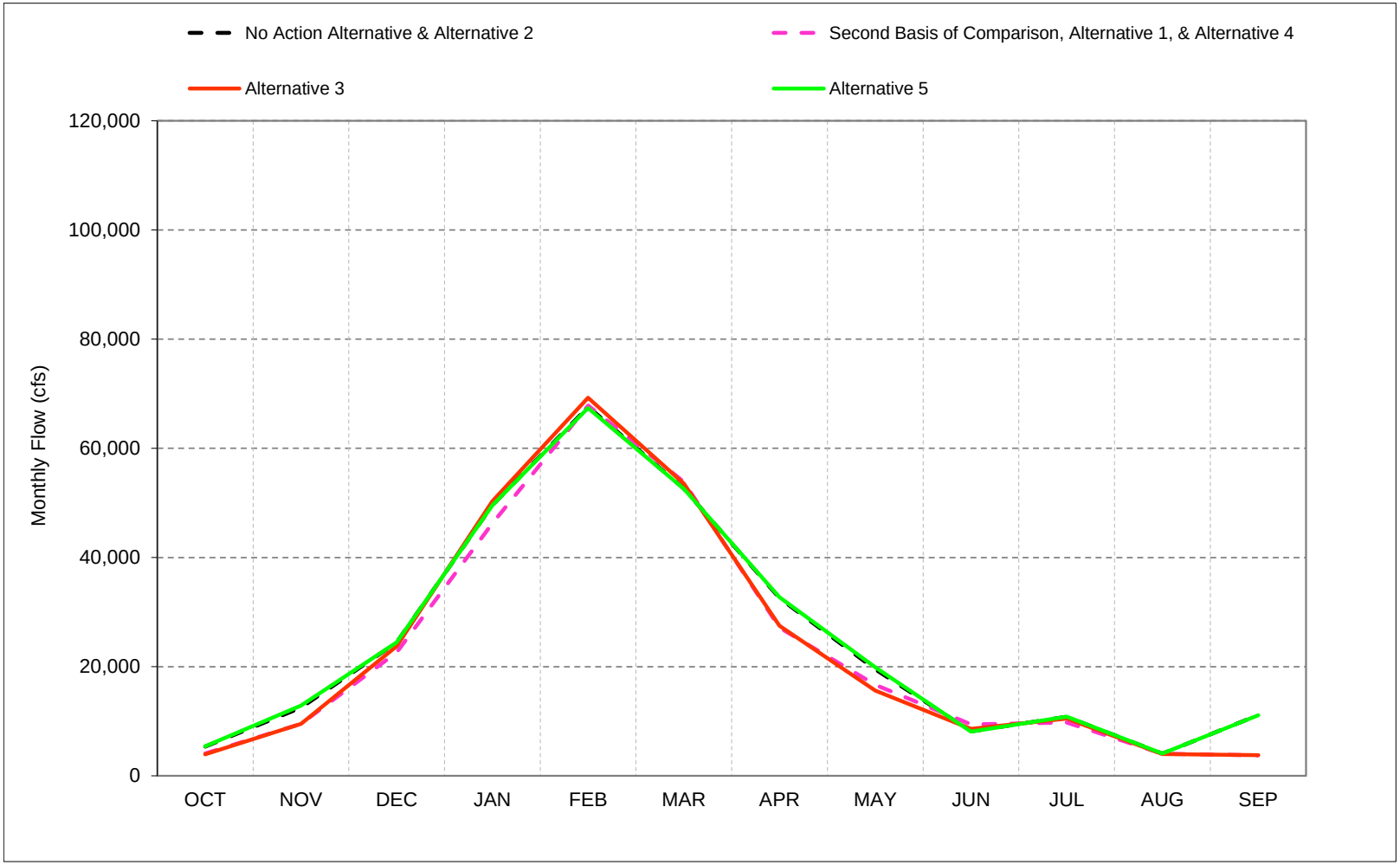


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-15-1-3. Sacramento/San Joaquin River Delta Outflow, Above Normal Year* Long-Term Average Flow**

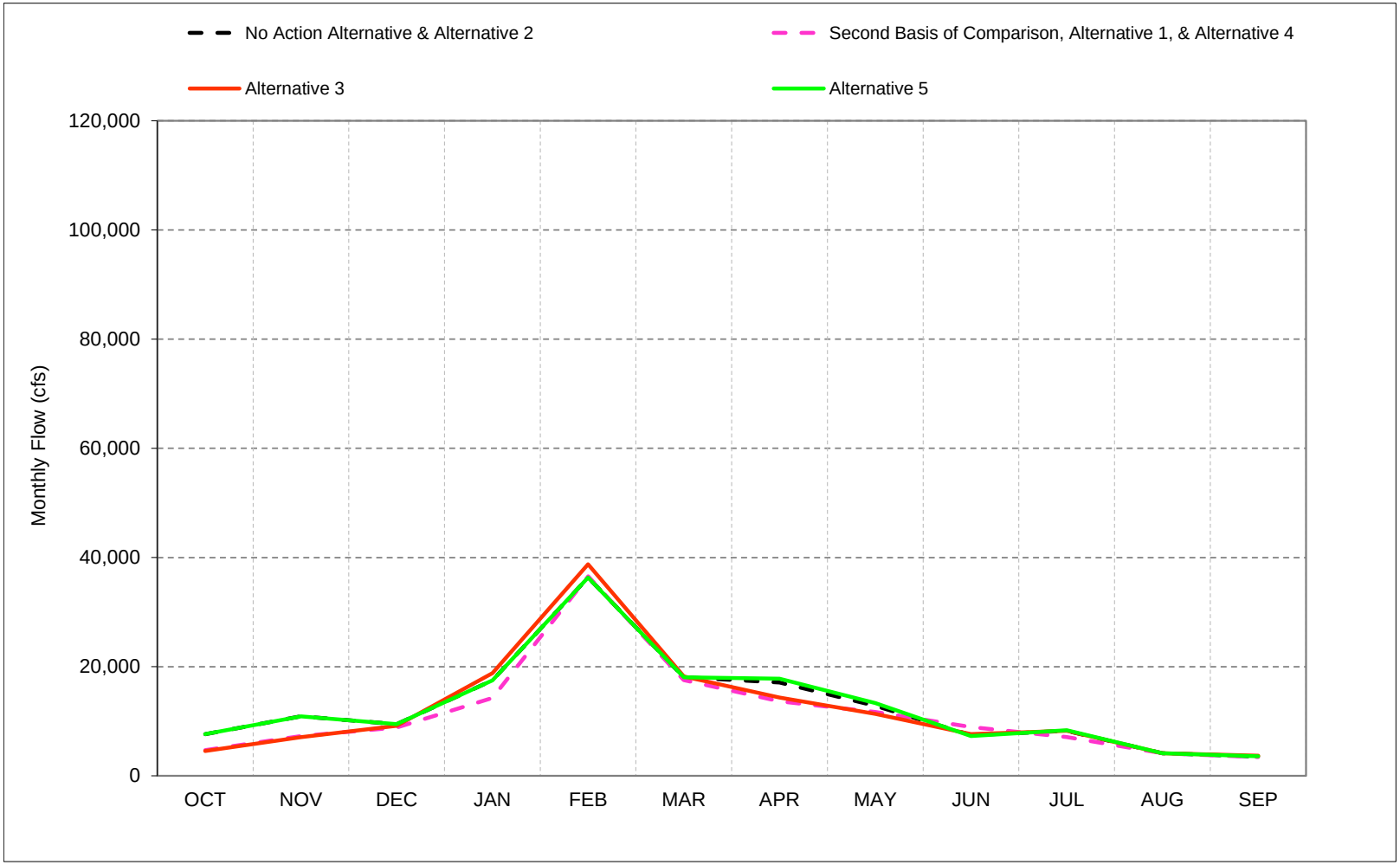


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-15-1-4. Sacramento/San Joaquin River Delta Outflow, Below Normal Year* Long-Term Average Flow**

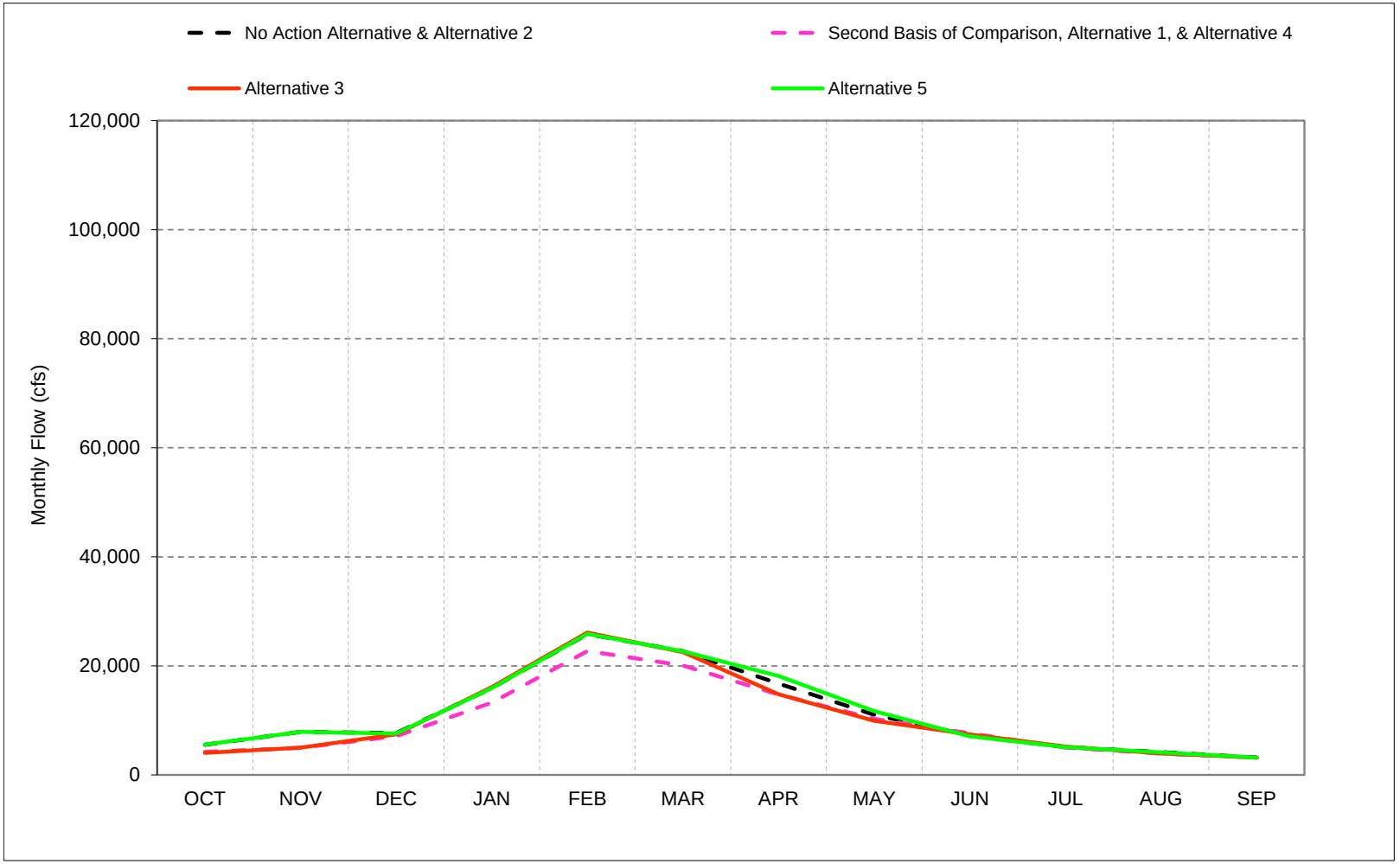


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-15-1-5. Sacramento/San Joaquin River Delta Outflow, Dry Year* Long-Term Average Flow**

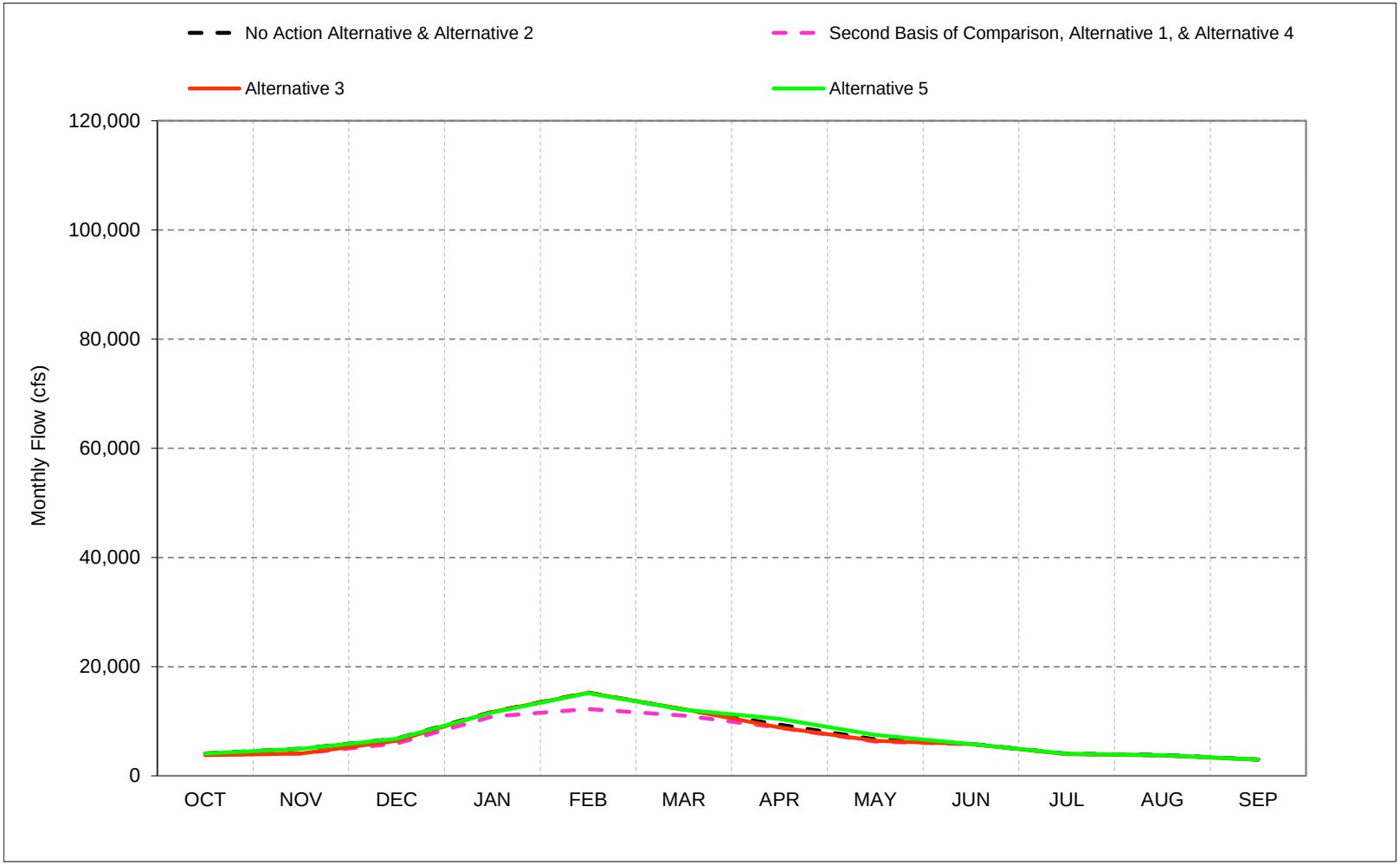


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-15-1-6. Sacramento/San Joaquin River Delta Outflow, Critical Year* Long-Term Average Flow**

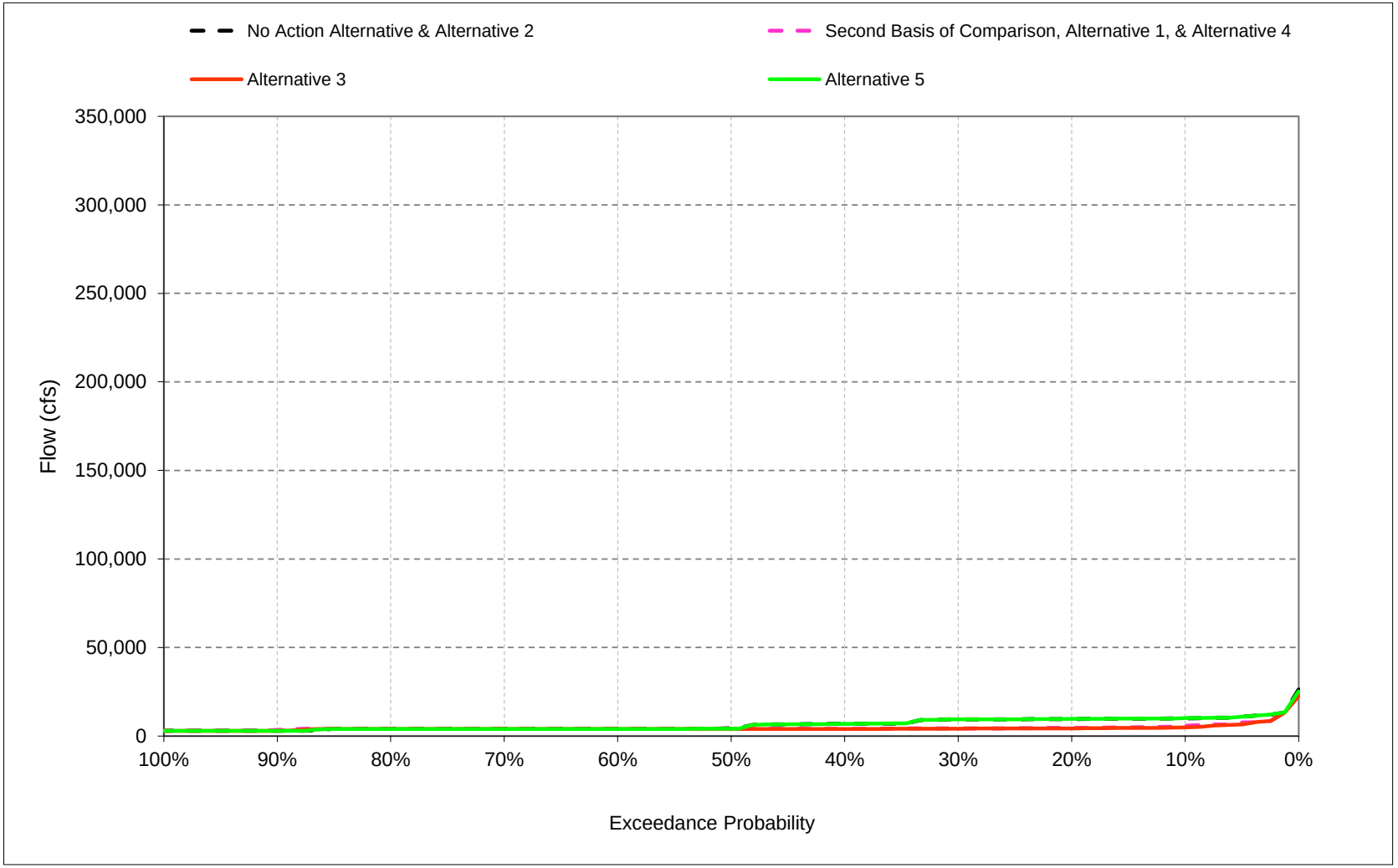


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

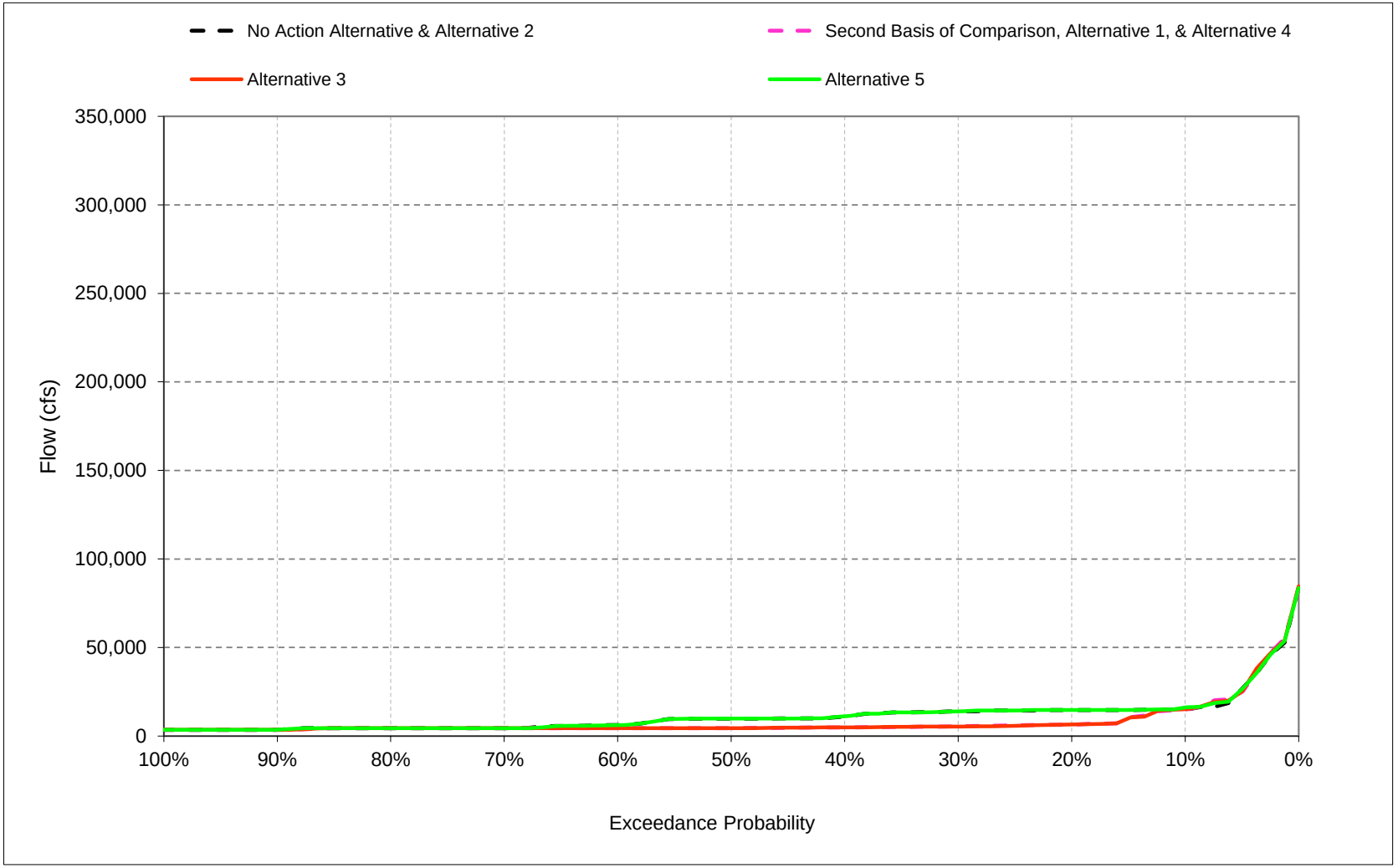
Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed 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.

Figure C-15-2-1. Sacramento/San Joaquin River Delta Outflow, October



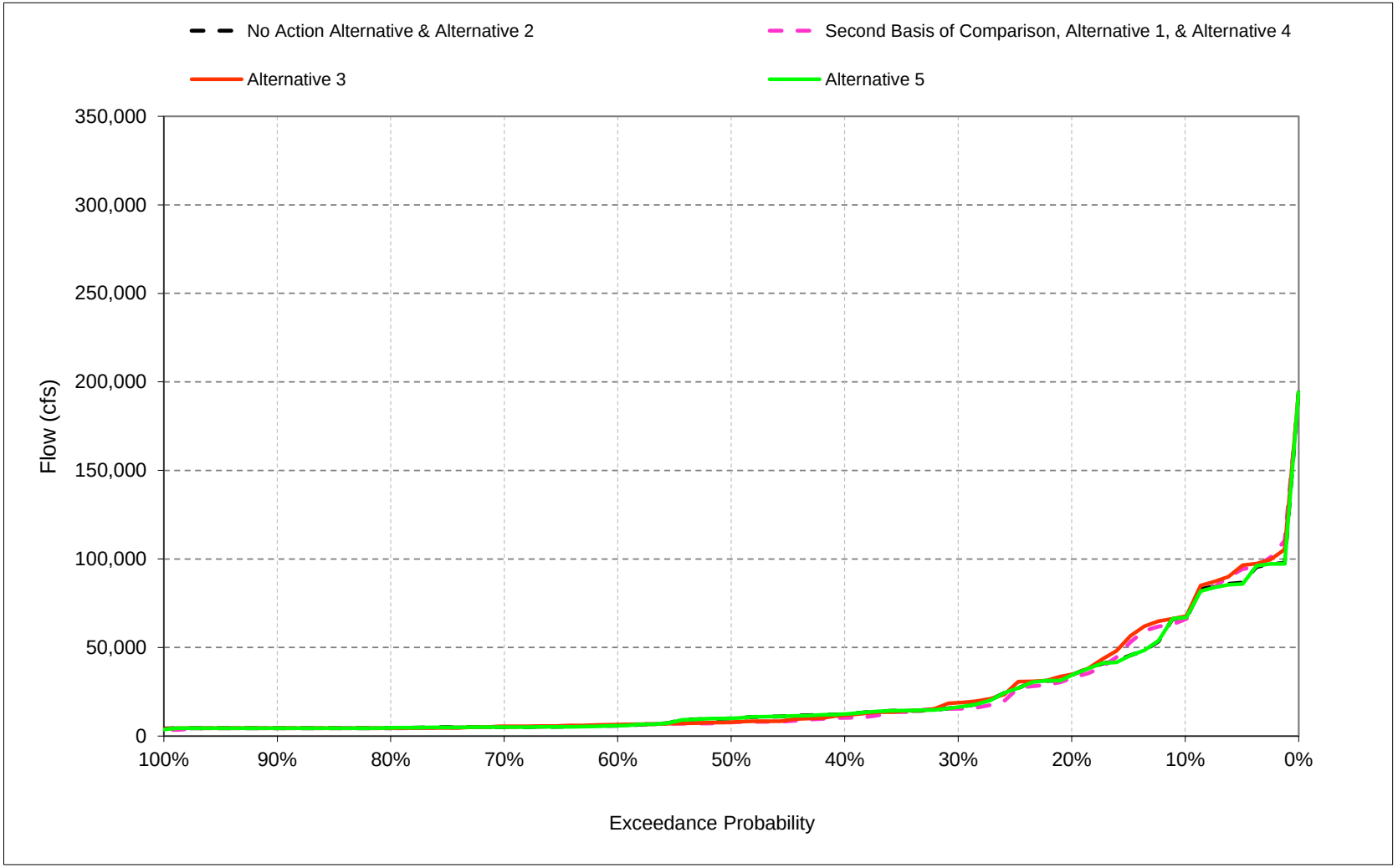
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-2. Sacramento/San Joaquin River Delta Outflow, November



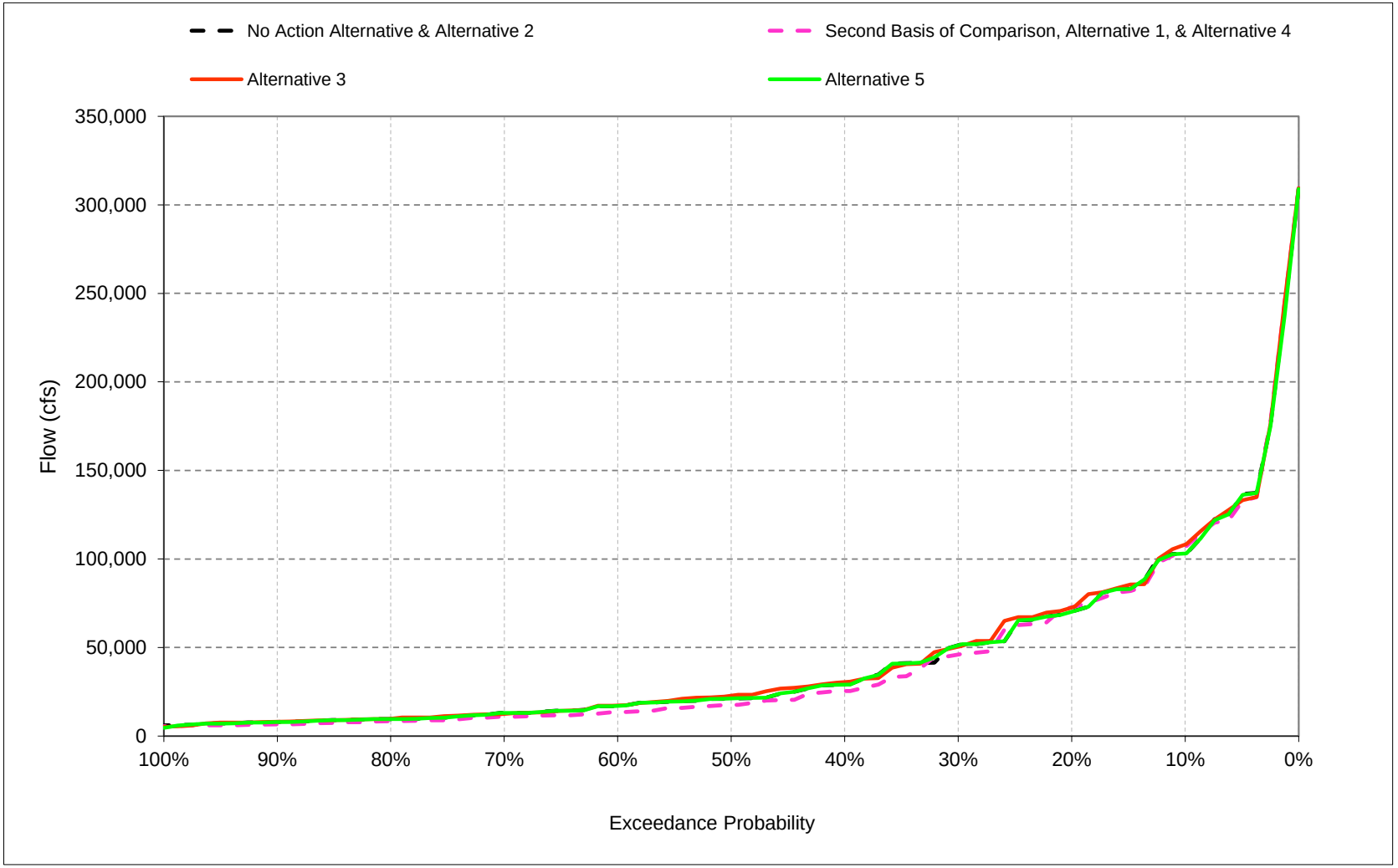
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-3. Sacramento/San Joaquin River Delta Outflow, December



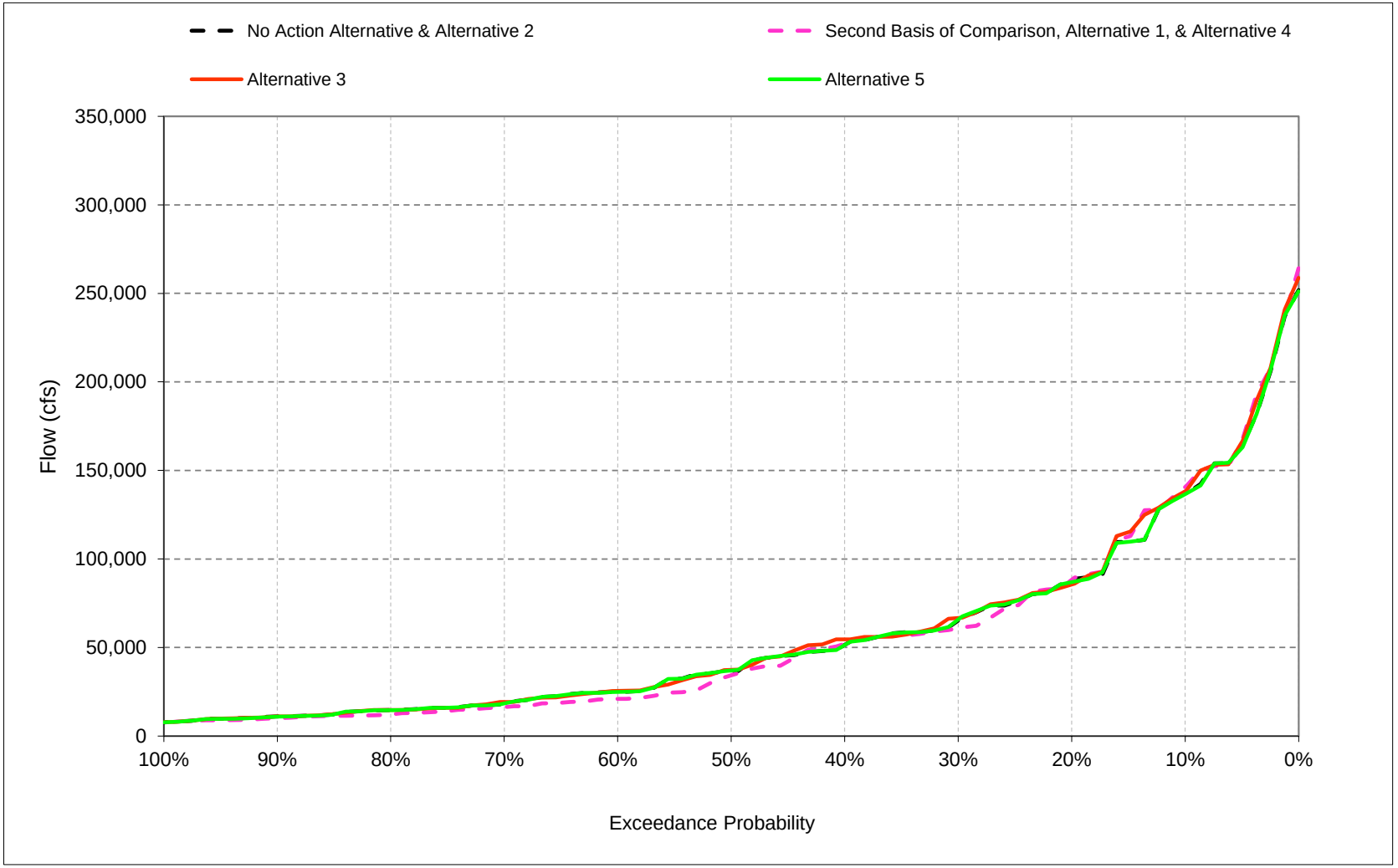
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-4. Sacramento/San Joaquin River Delta Outflow, January



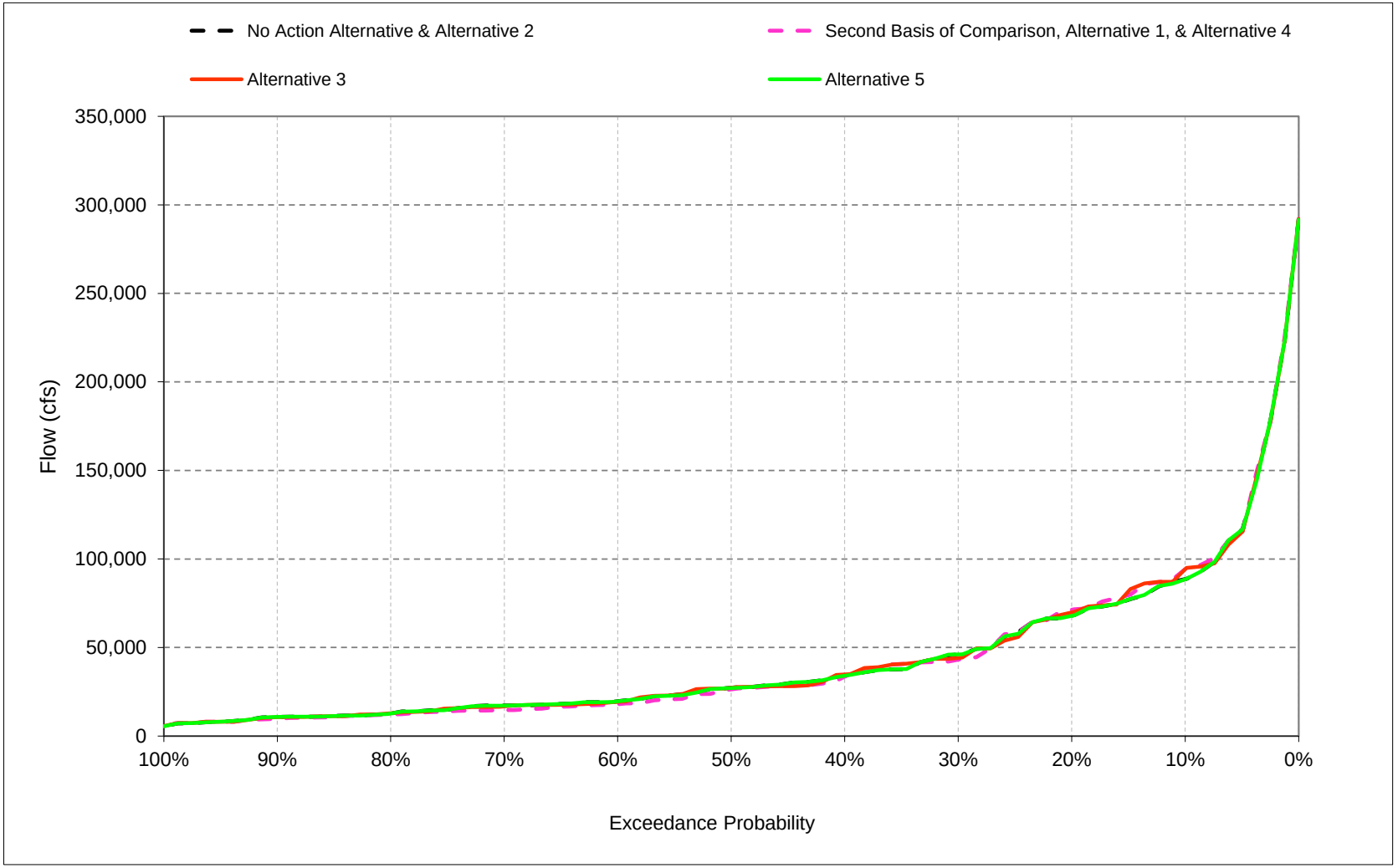
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-5. Sacramento/San Joaquin River Delta Outflow, February



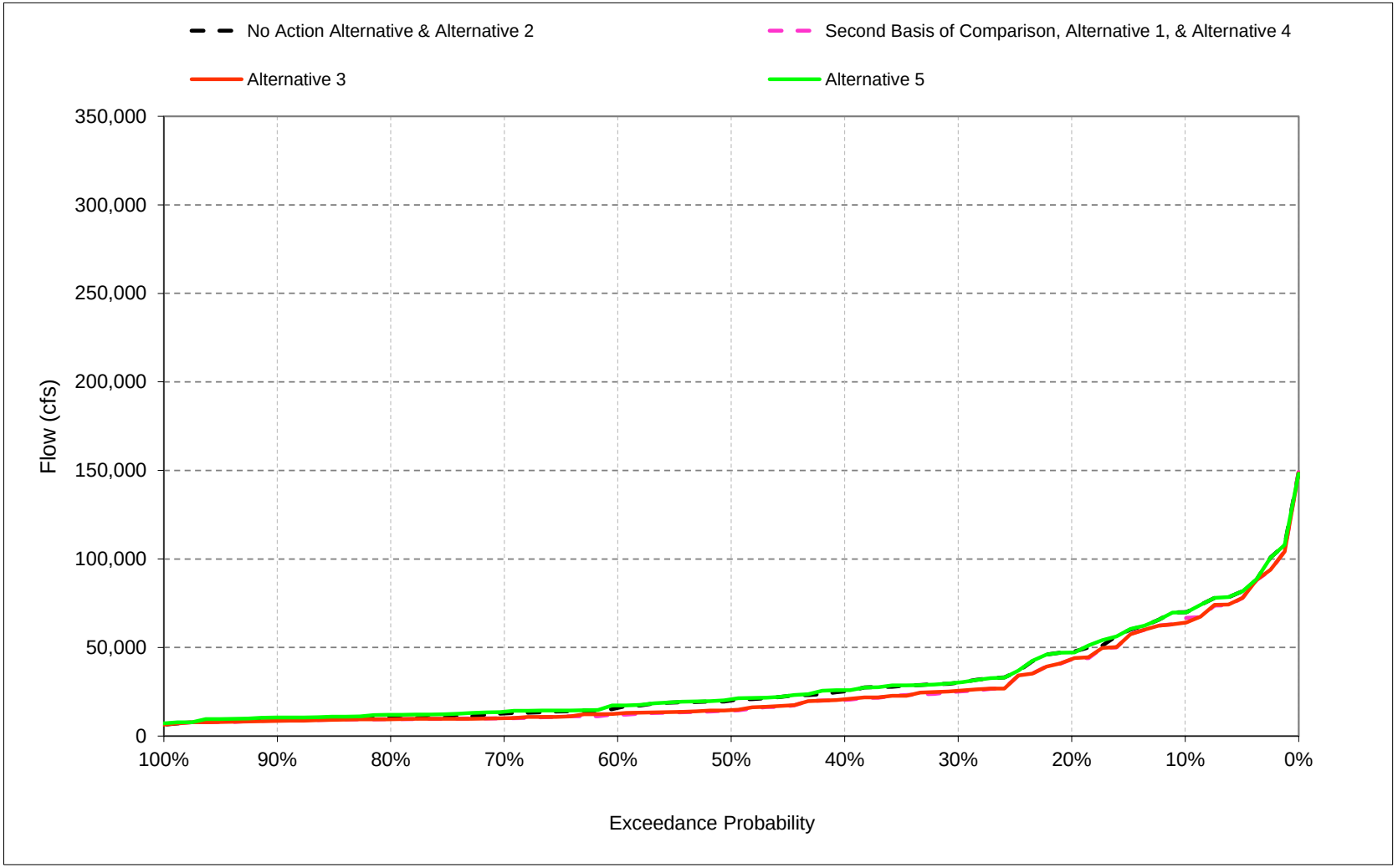
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-6. Sacramento/San Joaquin River Delta Outflow, March



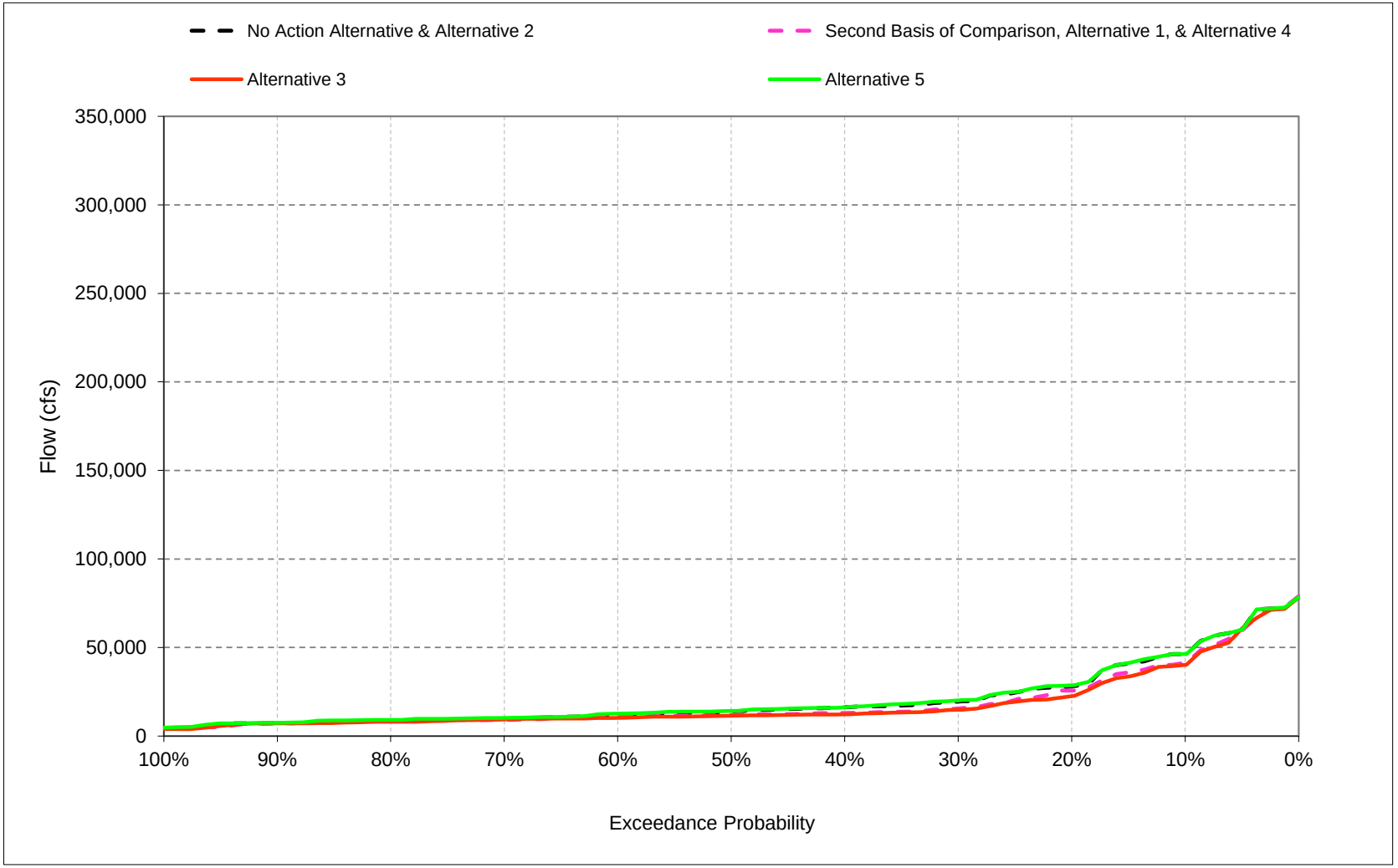
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-7. Sacramento/San Joaquin River Delta Outflow, April



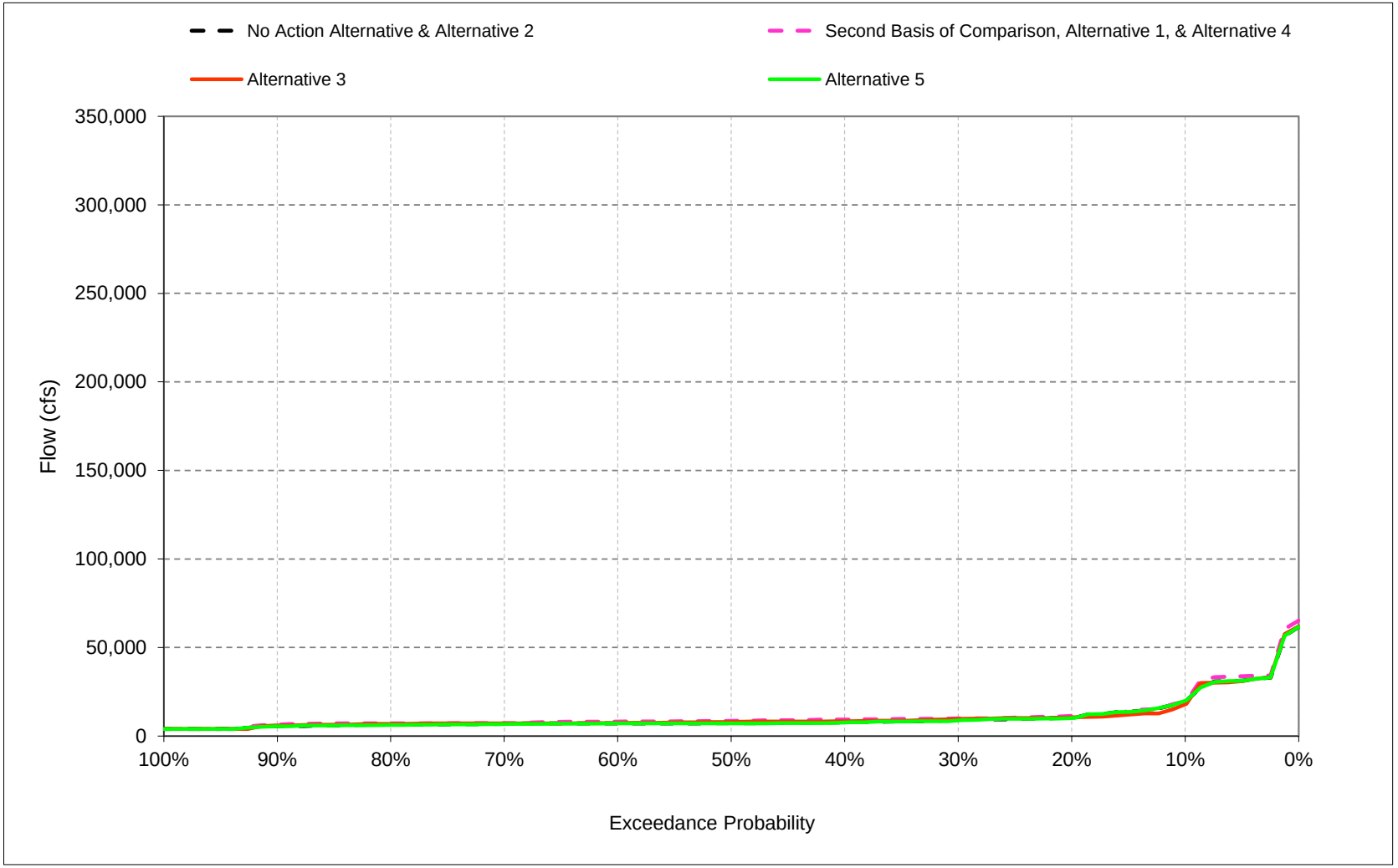
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-8. Sacramento/San Joaquin River Delta Outflow, May



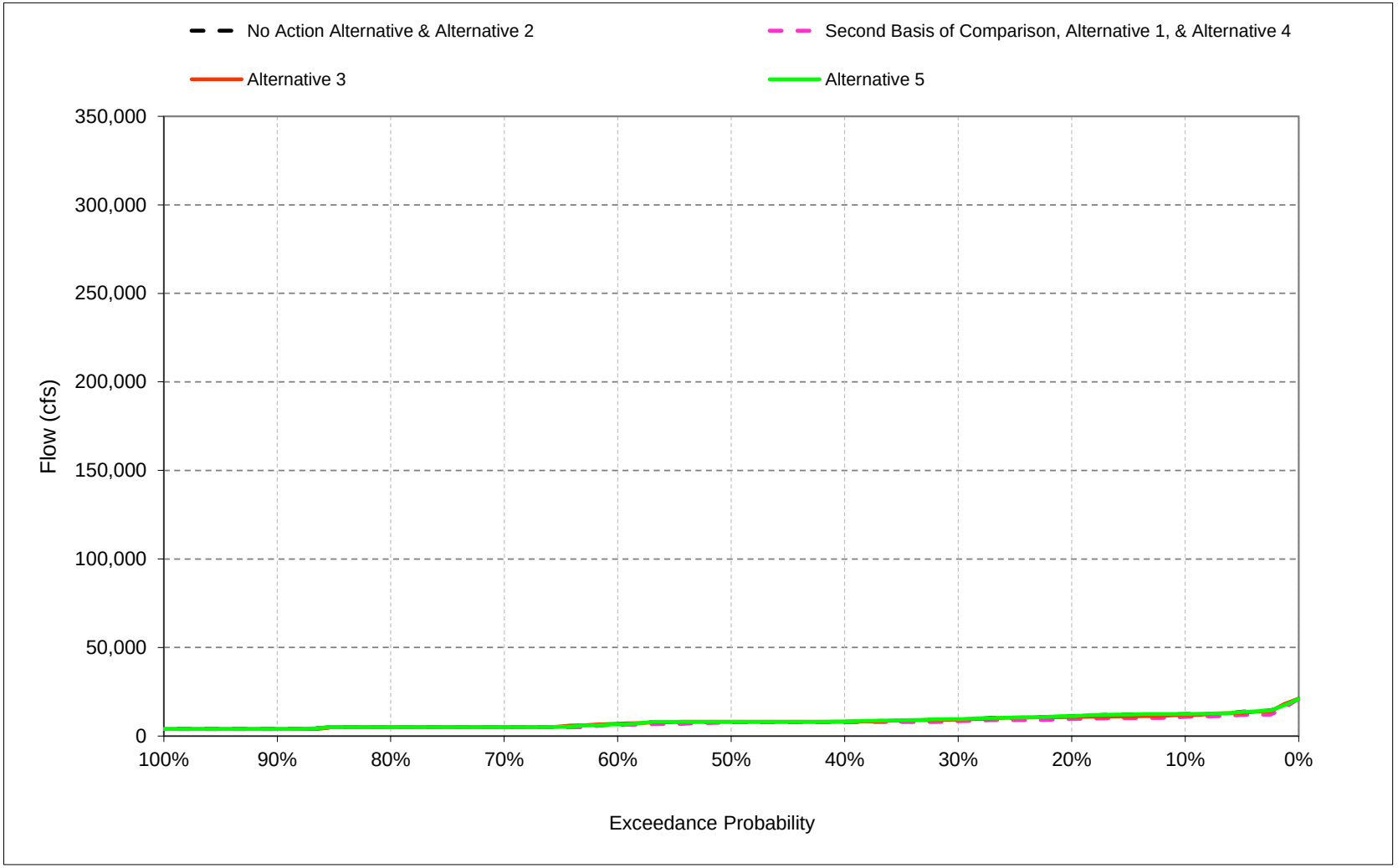
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-9. Sacramento/San Joaquin River Delta Outflow, June



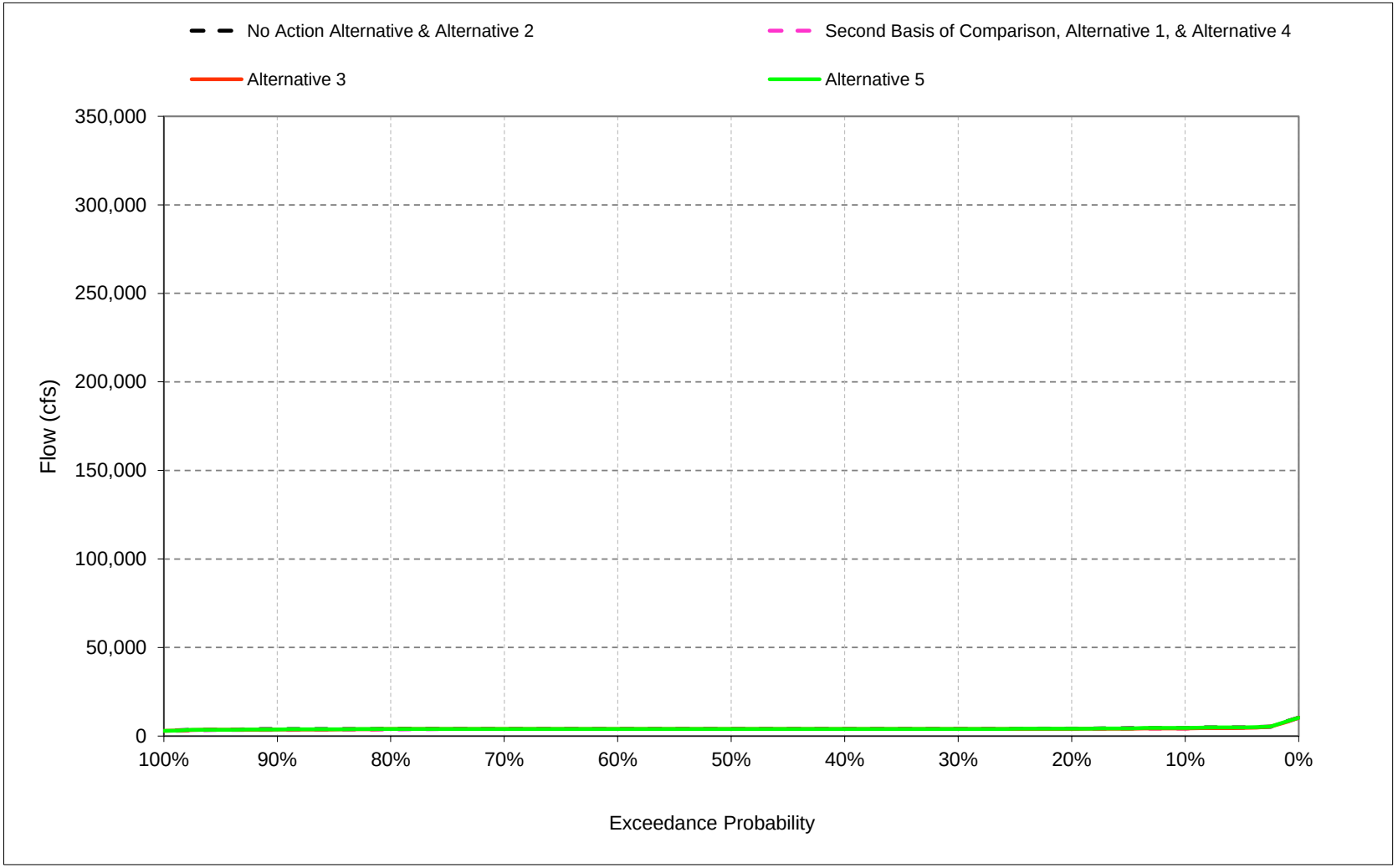
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-10. Sacramento/San Joaquin River Delta Outflow, July



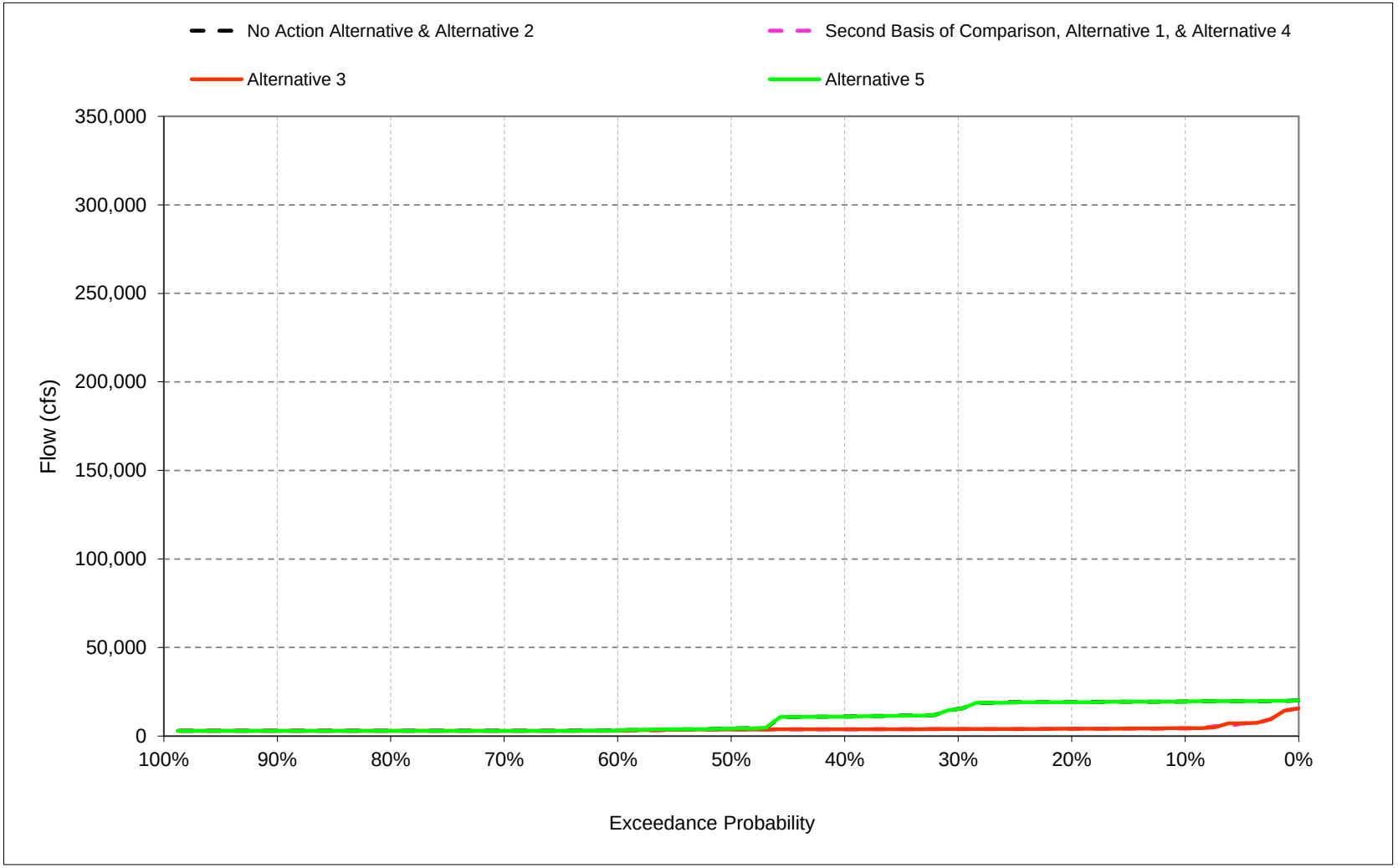
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 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.

Figure C-15-2-11. Sacramento/San Joaquin River Delta Outflow, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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.

Figure C-15-2-12. Sacramento/San Joaquin River Delta Outflow, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 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 Alternatives 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 C-15-1-1. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	9,992	15,000	66,586	102,991	136,665	88,553	69,913	46,324	19,838	12,406	4,507	19,516
20%	9,531	14,688	34,349	70,303	88,107	67,957	47,628	28,079	10,238	11,185	4,216	19,063
30%	9,375	13,860	16,305	51,208	65,254	46,096	30,159	19,514	9,204	9,315	4,000	15,282
40%	6,875	11,037	12,381	29,158	51,473	34,027	25,272	16,321	7,814	8,085	4,000	11,031
50%	4,392	9,844	9,938	21,131	36,676	27,251	20,111	13,711	7,243	8,000	4,000	4,385
60%	4,000	6,183	5,835	17,085	24,952	19,582	15,896	11,883	7,100	6,500	4,000	3,376
70%	4,000	4,500	5,118	13,018	18,411	17,261	12,735	9,629	6,864	5,000	4,000	3,000
80%	4,000	4,500	4,522	9,524	14,648	12,732	10,054	8,460	6,435	5,000	4,000	3,000
90%	3,000	3,537	4,500	7,899	11,020	10,766	9,479	7,246	5,606	4,002	3,899	3,000
Long Term												
Full Simulation Period[b]	6,518	11,533	23,026	44,232	56,916	43,869	30,448	20,838	10,885	8,050	4,189	9,501
Water Year Types[c]												
Wet (32%)	8,450	17,141	47,372	89,598	103,413	81,313	55,257	38,940	18,827	10,658	4,436	19,044
Above Normal (16%)	5,392	12,471	24,425	49,593	67,594	52,635	32,571	19,525	8,150	10,846	4,084	11,130
Below Normal (13%)	7,664	10,918	9,460	17,510	36,331	18,095	17,124	12,827	7,473	8,256	4,136	3,549
Dry (24%)	5,547	7,902	7,667	15,952	25,846	22,699	16,782	11,064	7,243	5,131	4,182	3,208
Critical (15%)	4,118	4,980	6,796	11,761	15,260	12,156	9,387	6,671	5,840	4,045	3,829	3,000

Alternative 1

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5,803	15,044	65,929	106,799	140,602	94,253	66,380	41,321	19,611	10,902	4,356	4,374
20%	4,603	6,436	32,639	72,700	88,242	71,240	43,356	25,729	11,405	9,646	4,087	4,037
30%	4,296	5,501	15,458	45,999	60,904	43,140	25,102	15,512	9,888	8,374	4,000	3,937
40%	4,085	4,892	10,325	25,436	52,110	33,538	20,427	13,024	9,349	8,000	4,000	3,819
50%	4,000	4,500	7,764	17,566	34,276	26,362	14,374	11,939	8,527	7,726	4,000	3,682
60%	4,000	4,500	6,206	13,540	21,001	17,962	12,164	10,966	8,142	6,500	4,000	3,034
70%	4,000	4,500	5,105	10,942	16,348	14,661	10,041	9,151	7,269	5,000	4,000	3,000
80%	4,000	4,500	4,500	8,429	12,229	12,229	9,534	8,708	7,100	5,000	3,773	3,000
90%	3,438	3,500	4,500	6,588	10,088	9,776	8,880	7,114	6,340	4,000	3,502	3,000
Long Term												
Full Simulation Period[b]	4,645	8,510	22,907	42,197	55,831	43,614	27,068	18,884	11,853	7,445	4,102	3,983
Water Year Types[c]												
Wet (32%)	5,533	13,286	48,963	88,678	103,568	82,641	50,579	35,425	20,319	9,843	4,400	5,361
Above Normal (16%)	4,112	9,509	22,621	46,272	67,829	53,845	27,145	16,693	9,448	9,777	4,053	3,770
Below Normal (13%)	4,735	7,275	8,857	14,292	36,552	17,538	13,660	11,701	8,957	7,113	4,145	3,456
Dry (24%)	4,234	4,975	7,135	13,254	22,732	20,102	14,775	10,322	7,628	5,038	3,937	3,209
Critical (15%)	3,904	4,104	5,928	10,890	12,243	11,062	8,824	6,276	5,809	4,038	3,749	3,000

Alternative 1 minus No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-4,189	44	-657	3,809	3,937	5,701	-3,533	-5,003	-227	-1,504	-151	-15,141
20%	-4,928	-8,251	-1,710	2,397	135	3,283	-4,273	-2,350	1,167	-1,539	-130	-15,026
30%	-5,079	-8,359	-847	-5,208	-4,350	-2,956	-5,057	-4,002	684	-941	0	-11,345
40%	-2,790	-6,145	-2,056	-3,722	637	-489	-4,845	-3,297	1,535	-85	0	-7,212
50%	-392	-5,344	-2,174	-3,565	-2,400	-889	-5,737	-1,771	1,283	-274	0	-702
60%	0	-1,683	372	-3,544	-3,950	-1,620	-3,732	-917	1,042	0	0	-342
70%	0	0	-12	-2,076	-2,063	-2,600	-2,694	-478	405	0	0	0
80%	0	0	-22	-1,095	-2,419	-503	-521	248	665	0	-227	0
90%	438	-37	0	-1,311	-932	-990	-599	-132	733	-2	-397	0
Long Term												
Full Simulation Period[b]	-1,872	-3,022	-120	-2,035	-1,085	-255	-3,380	-1,953	967	-605	-87	-5,518
Water Year Types[c]												
Wet (32%)	-2,916	-3,855	1,590	-919	155	1,328	-4,679	-3,515	1,492	-815	-36	-13,683
Above Normal (16%)	-1,281	-2,961	-1,804	-3,321	235	1,210	-5,425	-2,832	1,298	-1,069	-31	-7,360
Below Normal (13%)	-2,929	-3,643	-603	-3,218	221	-557	-3,464	-1,126	1,484	-1,143	9	-94
Dry (24%)	-1,313	-2,926	-532	-2,698	-3,114	-2,597	-2,007	-742	385	-93	-245	1
Critical (15%)	-214	-876	-869	-871	-3,016	-1,094	-563	-395	-31	-7	-80	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 C-15-1-2. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	9,992	15,000	66,586	102,991	136,665	88,553	69,913	46,324	19,838	12,406	4,507	19,516
20%	9,531	14,688	34,349	70,303	88,107	67,957	47,628	28,079	10,238	11,185	4,216	19,063
30%	9,375	13,860	16,305	51,208	65,254	46,096	30,159	19,514	9,204	9,315	4,000	15,282
40%	6,875	11,037	12,381	29,158	51,473	34,027	25,272	16,321	7,814	8,085	4,000	11,031
50%	4,392	9,844	9,938	21,131	36,676	27,251	20,111	13,711	7,243	8,000	4,000	4,385
60%	4,000	6,183	5,835	17,085	24,952	19,582	15,896	11,883	7,100	6,500	4,000	3,376
70%	4,000	4,500	5,118	13,018	18,411	17,261	12,735	9,629	6,864	5,000	4,000	3,000
80%	4,000	4,500	4,522	9,524	14,648	12,732	10,054	8,460	6,435	5,000	4,000	3,000
90%	3,000	3,537	4,500	7,899	11,020	10,766	9,479	7,246	5,606	4,002	3,899	3,000
Long Term												
Full Simulation Period[b]	6,518	11,533	23,026	44,232	56,916	43,869	30,448	20,838	10,885	8,050	4,189	9,501
Water Year Types[c]												
Wet (32%)	8,450	17,141	47,372	89,598	103,413	81,313	55,257	38,940	18,827	10,658	4,436	19,044
Above Normal (16%)	5,392	12,471	24,425	49,593	67,594	52,635	32,571	19,525	8,150	10,846	4,084	11,130
Below Normal (13%)	7,664	10,918	9,460	17,510	36,331	18,095	17,124	12,827	7,473	8,256	4,136	3,549
Dry (24%)	5,547	7,902	7,667	15,952	25,846	22,699	16,782	11,064	7,243	5,131	4,182	3,208
Critical (15%)	4,118	4,980	6,796	11,761	15,260	12,156	9,387	6,671	5,840	4,045	3,829	3,000

Alternative 3

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,847	15,154	67,577	108,085	138,218	94,128	64,058	40,190	17,907	11,848	4,317	4,383
20%	4,327	6,536	34,797	72,564	85,533	69,817	43,431	22,486	10,580	10,710	4,000	4,124
30%	4,176	5,360	18,763	50,474	66,669	44,146	25,623	14,849	9,614	9,349	4,000	3,952
40%	4,000	4,875	11,747	30,502	54,582	34,751	20,811	12,202	8,431	8,000	4,000	3,846
50%	4,000	4,500	7,809	22,735	37,427	27,283	14,576	11,448	8,008	8,000	4,000	3,723
60%	4,000	4,500	6,476	17,252	25,450	19,269	12,680	10,242	7,327	6,964	4,000	3,203
70%	4,000	4,500	5,469	12,485	19,194	16,786	10,104	9,418	7,100	5,000	4,000	3,000
80%	4,000	4,500	4,503	9,746	14,731	12,839	9,507	8,024	6,875	5,000	3,920	3,000
90%	3,001	3,500	4,500	8,078	11,090	10,632	8,602	7,100	5,892	4,000	3,615	3,000
Long Term												
Full Simulation Period[b]	4,505	8,498	23,825	45,081	57,802	44,096	27,167	18,245	11,031	7,975	4,104	4,026
Water Year Types[c]												
Wet (32%)	5,423	13,295	50,679	91,224	104,154	81,635	50,352	34,298	18,791	10,556	4,409	5,366
Above Normal (16%)	3,934	9,552	23,767	50,344	69,257	53,533	27,491	15,605	8,638	10,485	4,000	3,825
Below Normal (13%)	4,567	7,085	9,173	18,801	38,748	18,208	14,380	11,370	7,675	8,245	4,137	3,713
Dry (24%)	4,068	5,000	7,431	16,141	26,123	22,516	14,820	9,949	7,478	5,225	3,977	3,204
Critical (15%)	3,807	4,091	6,456	11,729	15,231	12,233	8,880	6,454	5,809	4,000	3,740	3,000

Alternative 3 minus No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-5,145**	154	991	5,095	1,553	5,575	**-5,855**	**-6,135**	**-1,931**	**-558**	**-189**	**-15,132**
20%	**-5,204**	**-8,152**	449	2,261	**-2,574**	1,860	**-4,197**	**-5,593**	342	**-475**	**-216**	**-14,938**
30%	**-5,199**	**-8,500**	2,458	**-734**	1,415	**-1,950**	**-4,536**	**-4,664**	410	34	0	**-11,330**
40%	**-2,875**	**-6,162**	**-634**	1,344	3,109	723	**-4,461**	**-4,119**	617	**-85**	0	**-7,186**
50%	**-392**	**-5,344**	**-2,129**	1,604	751	32	**-5,534**	**-2,263**	765	0	0	**-661**
60%	0	**-1,683**	641	167	498	**-313**	**-3,217**	**-1,641**	227	464	0	**-174**
70%	0	0	352	**-533**	783	**-475**	**-2,631**	**-211**	236	0	0	0
80%	0	0	**-19**	222	84	107	**-548**	**-436**	440	0	**-80**	0
90%	1	**-37**	0	179	70	**-134**	**-877**	**-146**	286	**-2**	**-283**	0
Long Term												
Full Simulation Period[b]	**-2,012**	**-3,034**	798	849	886	226	**-3,281**	**-2,593**	145	**-75**	**-85**	**-5,474**
Water Year Types[c]												
Wet (32%)	**-3,026**	**-3,846**	3,307	1,626	740	322	**-4,905**	**-4,642**	**-37**	**-103**	**-27**	**-13,678**
Above Normal (16%)	**-1,458**	**-2,919**	**-658**	751	1,663	898	**-5,080**	**-3,921**	487	**-361**	**-84**	**-7,305**
Below Normal (13%)	**-3,097**	**-3,834**	**-287**	1,291	2,418	113	**-2,744**	**-1,458**	202	**-11**	1	164
Dry (24%)	**-1,479**	**-2,902**	**-236**	189	277	**-183**	**-1,961**	**-1,115**	235	94	**-205**	**-4**
Critical (15%)	**-311**	**-889**	**-340**	**-32**	**-29**	78	**-507**	**-217**	**-31**	**-44**	**-89**	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 C-15-1-3. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	9,992	15,000	66,586	102,991	136,665	88,553	69,913	46,324	19,838	12,406	4,507	19,516
20%	9,531	14,688	34,349	70,303	88,107	67,957	47,628	28,079	10,238	11,185	4,216	19,063
30%	9,375	13,860	16,305	51,208	65,254	46,096	30,159	19,514	9,204	9,315	4,000	15,282
40%	6,875	11,037	12,381	29,158	51,473	34,027	25,272	16,321	7,814	8,085	4,000	11,031
50%	4,392	9,844	9,938	21,131	36,676	27,251	20,111	13,711	7,243	8,000	4,000	4,385
60%	4,000	6,183	5,835	17,085	24,952	19,582	15,896	11,883	7,100	6,500	4,000	3,376
70%	4,000	4,500	5,118	13,018	18,411	17,261	12,735	9,629	6,864	5,000	4,000	3,000
80%	4,000	4,500	4,522	9,524	14,648	12,732	10,054	8,460	6,435	5,000	4,000	3,000
90%	3,000	3,537	4,500	7,899	11,020	10,766	9,479	7,246	5,606	4,002	3,899	3,000
Long Term												
Full Simulation Period[b]	6,518	11,533	23,026	44,232	56,916	43,869	30,448	20,838	10,885	8,050	4,189	9,501
Water Year Types[c]												
Wet (32%)	8,450	17,141	47,372	89,598	103,413	81,313	55,257	38,940	18,827	10,658	4,436	19,044
Above Normal (16%)	5,392	12,471	24,425	49,593	67,594	52,635	32,571	19,525	8,150	10,846	4,084	11,130
Below Normal (13%)	7,664	10,918	9,460	17,510	36,331	18,095	17,124	12,827	7,473	8,256	4,136	3,549
Dry (24%)	5,547	7,902	7,667	15,952	25,846	22,699	16,782	11,064	7,243	5,131	4,182	3,208
Critical (15%)	4,118	4,980	6,796	11,761	15,260	12,156	9,387	6,671	5,840	4,045	3,829	3,000

Alternative 5

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	10,133	16,136	66,931	103,093	136,599	88,457	69,913	46,327	19,833	12,471	4,626	19,516
20%	9,656	14,688	34,352	70,235	86,928	67,878	47,175	28,669	10,186	11,191	4,165	19,063
30%	9,375	13,956	16,399	51,208	65,777	46,107	30,216	20,119	8,813	9,640	4,000	15,287
40%	6,875	11,099	12,398	29,024	51,418	34,026	25,913	16,298	7,617	8,150	4,000	10,938
50%	4,183	9,844	10,026	21,152	36,972	27,098	20,741	14,190	7,113	8,000	4,000	4,292
60%	4,000	6,200	5,833	17,051	24,932	19,564	17,274	12,619	7,100	6,500	4,000	3,425
70%	4,000	4,500	5,046	13,016	18,412	17,193	13,722	10,228	6,742	5,013	4,000	3,000
80%	4,000	4,500	4,650	9,518	14,601	12,730	11,957	9,116	6,225	5,000	4,000	3,000
90%	3,000	3,543	4,500	7,907	11,015	10,768	10,467	7,519	5,545	4,000	3,742	3,000
Long Term												
Full Simulation Period[b]	6,517	11,601	22,977	44,143	56,887	43,828	31,056	21,333	10,797	8,125	4,179	9,499
Water Year Types[c]												
Wet (32%)	8,415	17,140	47,249	89,426	103,463	81,244	55,257	39,213	18,770	10,842	4,436	19,027
Above Normal (16%)	5,427	12,884	24,469	49,565	67,378	52,557	32,721	19,885	8,108	10,860	4,082	11,106
Below Normal (13%)	7,655	10,920	9,460	17,477	36,320	18,058	17,828	13,354	7,294	8,350	4,137	3,594
Dry (24%)	5,567	7,917	7,596	15,936	25,862	22,697	18,159	11,710	7,102	5,143	4,164	3,216
Critical (15%)	4,127	4,974	6,794	11,614	15,167	12,145	10,437	7,514	5,809	4,043	3,792	3,000

Alternative 5 minus No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	141	1,136	345	102	**-66**	**-96**	0	3	**-5**	65	119	0
20%	125	0	3	**-68**	**-1,179**	**-79**	**-454**	590	**-52**	6	**-51**	0
30%	0	97	94	0	523	11	57	605	**-391**	325	0	5
40%	0	62	17	**-134**	**-55**	**-2**	641	**-23**	**-197**	65	0	**-94**
50%	**-209**	0	88	21	296	**-153**	630	479	**-131**	0	0	**-93**
60%	0	17	**-2**	**-34**	**-20**	**-18**	1,378	737	0	0	0	48
70%	0	0	**-72**	**-2**	1	**-68**	987	598	**-122**	13	0	0
80%	0	0	128	**-6**	**-46**	**-3**	1,903	656	**-210**	0	**0**	0
90%	0	6	0	8	**-5**	2	988	273	**-62**	**-2**	**-156**	0
Long Term												
Full Simulation Period[b]	**0**	68	**-50**	**-89**	**-29**	**-41**	608	495	**-88**	76	**-10**	**-1**
Water Year Types[c]												
Wet (32%)	**-34**	**-1**	**-123**	**-172**	50	**-68**	**-1**	273	**-58**	183	0	**-18**
Above Normal (16%)	35	413	44	**-28**	**-216**	**-78**	151	360	**-43**	14	**-2**	**-24**
Below Normal (13%)	**-9**	1	**0**	**-33**	**-11**	**-37**	703	526	**-179**	94	0	45
Dry (24%)	21	15	**-71**	**-16**	16	**-2**	1,377	646	**-141**	12	**-18**	8
Critical (15%)	9	**-7**	**-2**	**-146**	**-93**	**-11**	1,049	843	**-31**	**-2**	**-38**	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 C-15-1-4. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5,803	15,044	65,929	106,799	140,602	94,253	66,380	41,321	19,611	10,902	4,356	4,374
20%	4,603	6,436	32,639	72,700	88,242	71,240	43,356	25,729	11,405	9,646	4,087	4,037
30%	4,296	5,501	15,458	45,999	60,904	43,140	25,102	15,512	9,888	8,374	4,000	3,937
40%	4,085	4,892	10,325	25,436	52,110	33,538	20,427	13,024	9,349	8,000	4,000	3,819
50%	4,000	4,500	7,764	17,566	34,276	26,362	14,374	11,939	8,527	7,726	4,000	3,682
60%	4,000	4,500	6,206	13,540	21,001	17,962	12,164	10,966	8,142	6,500	4,000	3,034
70%	4,000	4,500	5,105	10,942	16,348	14,661	10,041	9,151	7,269	5,000	4,000	3,000
80%	4,000	4,500	4,500	8,429	12,229	12,229	9,534	8,708	7,100	5,000	3,773	3,000
90%	3,438	3,500	4,500	6,588	10,088	9,776	8,880	7,114	6,340	4,000	3,502	3,000
Long Term												
Full Simulation Period[b]	4,645	8,510	22,907	42,197	55,831	43,614	27,068	18,884	11,853	7,445	4,102	3,983
Water Year Types[c]												
Wet (32%)	5,533	13,286	48,963	88,678	103,568	82,641	50,579	35,425	20,319	9,843	4,400	5,361
Above Normal (16%)	4,112	9,509	22,621	46,272	67,829	53,845	27,145	16,693	9,448	9,777	4,053	3,770
Below Normal (13%)	4,735	7,275	8,857	14,292	36,552	17,538	13,660	11,701	8,957	7,113	4,145	3,456
Dry (24%)	4,234	4,975	7,135	13,254	22,732	20,102	14,775	10,322	7,628	5,038	3,937	3,209
Critical (15%)	3,904	4,104	5,928	10,890	12,243	11,062	8,824	6,276	5,809	4,038	3,749	3,000

No Action Alternative

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	9,992	15,000	66,586	102,991	136,665	88,553	69,913	46,324	19,838	12,406	4,507	19,516
20%	9,531	14,688	34,349	70,303	88,107	67,957	47,628	28,079	10,238	11,185	4,216	19,063
30%	9,375	13,860	16,305	51,208	65,254	46,096	30,159	19,514	9,204	9,315	4,000	15,282
40%	6,875	11,037	12,381	29,158	51,473	34,027	25,272	16,321	7,814	8,085	4,000	11,031
50%	4,392	9,844	9,938	21,131	36,676	27,251	20,111	13,711	7,243	8,000	4,000	4,385
60%	4,000	6,183	5,835	17,085	24,952	19,582	15,896	11,883	7,100	6,500	4,000	3,376
70%	4,000	4,500	5,118	13,018	18,411	17,261	12,735	9,629	6,864	5,000	4,000	3,000
80%	4,000	4,500	4,522	9,524	14,648	12,732	10,054	8,460	6,435	5,000	4,000	3,000
90%	3,000	3,537	4,500	7,899	11,020	10,766	9,479	7,246	5,606	4,002	3,899	3,000
Long Term												
Full Simulation Period[b]	6,518	11,533	23,026	44,232	56,916	43,869	30,448	20,838	10,885	8,050	4,189	9,501
Water Year Types[c]												
Wet (32%)	8,450	17,141	47,372	89,598	103,413	81,313	55,257	38,940	18,827	10,658	4,436	19,044
Above Normal (16%)	5,392	12,471	24,425	49,593	67,594	52,635	32,571	19,525	8,150	10,846	4,084	11,130
Below Normal (13%)	7,664	10,918	9,460	17,510	36,331	18,095	17,124	12,827	7,473	8,256	4,136	3,549
Dry (24%)	5,547	7,902	7,667	15,952	25,846	22,699	16,782	11,064	7,243	5,131	4,182	3,208
Critical (15%)	4,118	4,980	6,796	11,761	15,260	12,156	9,387	6,671	5,840	4,045	3,829	3,000

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,189	-44	657	-3,809	-3,937	-5,701	3,533	5,003	227	1,504	151	15,141
20%	4,928	8,251	1,710	-2,397	-135	-3,283	4,273	2,350	-1,167	1,539	130	15,026
30%	5,079	8,359	847	5,208	4,350	2,956	5,057	4,002	-684	941	0	11,345
40%	2,790	6,145	2,056	3,722	-637	489	4,845	3,297	-1,535	85	0	7,212
50%	392	5,344	2,174	3,565	2,400	889	5,737	1,771	-1,283	274	0	702
60%	0	1,683	-372	3,544	3,950	1,620	3,732	917	-1,042	0	0	342
70%	0	0	12	2,076	2,063	2,600	2,694	478	-405	0	0	0
80%	0	0	22	1,095	2,419	503	521	-248	-665	0	227	0
90%	-438	37	0	1,311	932	990	599	132	-733	2	397	0
Long Term												
Full Simulation Period[b]	1,872	3,022	120	2,035	1,085	255	3,380	1,953	-967	605	87	5,518
Water Year Types[c]												
Wet (32%)	2,916	3,855	-1,590	919	-155	-1,328	4,679	3,515	-1,492	815	36	13,683
Above Normal (16%)	1,281	2,961	1,804	3,321	-235	-1,210	5,425	2,832	-1,298	1,069	31	7,360
Below Normal (13%)	2,929	3,643	603	3,218	-221	557	3,464	1,126	-1,484	1,143	-9	94
Dry (24%)	1,313	2,926	532	2,698	3,114	2,597	2,007	742	-385	93	245	-1
Critical (15%)	214	876	869	871	3,016	1,094	563	395	31	7	80	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 C-15-1-5. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5,803	15,044	65,929	106,799	140,602	94,253	66,380	41,321	19,611	10,902	4,356	4,374
20%	4,603	6,436	32,639	72,700	88,242	71,240	43,356	25,729	11,405	9,646	4,087	4,037
30%	4,296	5,501	15,458	45,999	60,904	43,140	25,102	15,512	9,888	8,374	4,000	3,937
40%	4,085	4,892	10,325	25,436	52,110	33,538	20,427	13,024	9,349	8,000	4,000	3,819
50%	4,000	4,500	7,764	17,566	34,276	26,362	14,374	11,939	8,527	7,726	4,000	3,682
60%	4,000	4,500	6,206	13,540	21,001	17,962	12,164	10,966	8,142	6,500	4,000	3,034
70%	4,000	4,500	5,105	10,942	16,348	14,661	10,041	9,151	7,269	5,000	4,000	3,000
80%	4,000	4,500	4,500	8,429	12,229	12,229	9,534	8,708	7,100	5,000	3,773	3,000
90%	3,438	3,500	4,500	6,588	10,088	9,776	8,880	7,114	6,340	4,000	3,502	3,000
Long Term												
Full Simulation Period[b]	4,645	8,510	22,907	42,197	55,831	43,614	27,068	18,884	11,853	7,445	4,102	3,983
Water Year Types[c]												
Wet (32%)	5,533	13,286	48,963	88,678	103,568	82,641	50,579	35,425	20,319	9,843	4,400	5,361
Above Normal (16%)	4,112	9,509	22,621	46,272	67,829	53,845	27,145	16,693	9,448	9,777	4,053	3,770
Below Normal (13%)	4,735	7,275	8,857	14,292	36,552	17,538	13,660	11,701	8,957	7,113	4,145	3,456
Dry (24%)	4,234	4,975	7,135	13,254	22,732	20,102	14,775	10,322	7,628	5,038	3,937	3,209
Critical (15%)	3,904	4,104	5,928	10,890	12,243	11,062	8,824	6,276	5,809	4,038	3,749	3,000

Alternative 3

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,847	15,154	67,577	108,085	138,218	94,128	64,058	40,190	17,907	11,848	4,317	4,383
20%	4,327	6,536	34,797	72,564	85,533	69,817	43,431	22,486	10,580	10,710	4,000	4,124
30%	4,176	5,360	18,763	50,474	66,669	44,146	25,623	14,849	9,614	9,349	4,000	3,952
40%	4,000	4,875	11,747	30,502	54,582	34,751	20,811	12,202	8,431	8,000	4,000	3,846
50%	4,000	4,500	7,809	22,735	37,427	27,283	14,576	11,448	8,008	8,000	4,000	3,723
60%	4,000	4,500	6,476	17,252	25,450	19,269	12,680	10,242	7,327	6,964	4,000	3,203
70%	4,000	4,500	5,469	12,485	19,194	16,786	10,104	9,418	7,100	5,000	4,000	3,000
80%	4,000	4,500	4,503	9,746	14,731	12,839	9,507	8,024	6,875	5,000	3,920	3,000
90%	3,001	3,500	4,500	8,078	11,090	10,632	8,602	7,100	5,892	4,000	3,615	3,000
Long Term												
Full Simulation Period[b]	4,505	8,498	23,825	45,081	57,802	44,096	27,167	18,245	11,031	7,975	4,104	4,026
Water Year Types[c]												
Wet (32%)	5,423	13,295	50,679	91,224	104,154	81,635	50,352	34,298	18,791	10,556	4,409	5,366
Above Normal (16%)	3,934	9,552	23,767	50,344	69,257	53,533	27,491	15,605	8,638	10,485	4,000	3,825
Below Normal (13%)	4,567	7,085	9,173	18,801	38,748	18,208	14,380	11,370	7,675	8,245	4,137	3,713
Dry (24%)	4,068	5,000	7,431	16,141	26,123	22,516	14,820	9,949	7,478	5,225	3,977	3,204
Critical (15%)	3,807	4,091	6,456	11,729	15,231	12,233	8,880	6,454	5,809	4,000	3,740	3,000

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-956**	110	1,648	1,286	**-2,383**	**-126**	**-2,322**	**-1,131**	**-1,704**	946	**-39**	9
20%	**-276**	99	2,158	**-136**	**-2,709**	**-1,423**	75	**-3,243**	**-824**	1,064	**-86**	88
30%	**-121**	**-141**	3,305	4,475	5,765	1,006	521	**-663**	**-274**	975	0	15
40%	**-85**	**-17**	1,422	5,066	2,471	1,212	384	**-822**	**-918**	0	0	27
50%	0	0	45	5,169	3,152	921	203	**-491**	**-519**	274	0	41
60%	0	0	269	3,712	4,449	1,308	515	**-724**	**-815**	464	0	169
70%	0	0	364	1,543	2,846	2,125	63	267	**-169**	0	0	0
80%	0	0	3	1,317	2,503	610	**-27**	**-684**	**-225**	0	148	0
90%	**-436**	0	0	1,489	1,002	856	**-278**	**-14**	**-448**	0	113	0
Long Term												
Full Simulation Period[b]	**-140**	**-12**	918	2,885	1,971	482	99	**-639**	**-822**	530	2	44
Water Year Types[c]												
Wet (32%)	**-110**	9	1,717	2,546	586	**-1,006**	**-226**	**-1,127**	**-1,529**	713	9	5
Above Normal (16%)	**-178**	42	1,146	4,072	1,427	**-311**	345	**-1,088**	**-810**	709	**-53**	55
Below Normal (13%)	**-167**	**-191**	316	4,509	2,197	670	720	**-331**	**-1,282**	1,132	**-8**	257
Dry (24%)	**-166**	24	296	2,887	3,391	2,414	46	**-373**	**-150**	187	40	**-5**
Critical (15%)	**-97**	**-13**	529	838	2,987	1,172	56	178	0	**-37**	**-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 C-15-1-6. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Rate

Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5,803	15,044	65,929	106,799	140,602	94,253	66,380	41,321	19,611	10,902	4,356	4,374
20%	4,603	6,436	32,639	72,700	88,242	71,240	43,356	25,729	11,405	9,646	4,087	4,037
30%	4,296	5,501	15,458	45,999	60,904	43,140	25,102	15,512	9,888	8,374	4,000	3,937
40%	4,085	4,892	10,325	25,436	52,110	33,538	20,427	13,024	9,349	8,000	4,000	3,819
50%	4,000	4,500	7,764	17,566	34,276	26,362	14,374	11,939	8,527	7,726	4,000	3,682
60%	4,000	4,500	6,206	13,540	21,001	17,962	12,164	10,966	8,142	6,500	4,000	3,034
70%	4,000	4,500	5,105	10,942	16,348	14,661	10,041	9,151	7,269	5,000	4,000	3,000
80%	4,000	4,500	4,500	8,429	12,229	12,229	9,534	8,708	7,100	5,000	3,773	3,000
90%	3,438	3,500	4,500	6,588	10,088	9,776	8,880	7,114	6,340	4,000	3,502	3,000
Long Term												
Full Simulation Period[b]	4,645	8,510	22,907	42,197	55,831	43,614	27,068	18,884	11,853	7,445	4,102	3,983
Water Year Types[c]												
Wet (32%)	5,533	13,286	48,963	88,678	103,568	82,641	50,579	35,425	20,319	9,843	4,400	5,361
Above Normal (16%)	4,112	9,509	22,621	46,272	67,829	53,845	27,145	16,693	9,448	9,777	4,053	3,770
Below Normal (13%)	4,735	7,275	8,857	14,292	36,552	17,538	13,660	11,701	8,957	7,113	4,145	3,456
Dry (24%)	4,234	4,975	7,135	13,254	22,732	20,102	14,775	10,322	7,628	5,038	3,937	3,209
Critical (15%)	3,904	4,104	5,928	10,890	12,243	11,062	8,824	6,276	5,809	4,038	3,749	3,000

Alternative 5

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	10,133	16,136	66,931	103,093	136,599	88,457	69,913	46,327	19,833	12,471	4,626	19,516
20%	9,656	14,688	34,352	70,235	86,928	67,878	47,175	28,669	10,186	11,191	4,165	19,063
30%	9,375	13,956	16,399	51,208	65,777	46,107	30,216	20,119	8,813	9,640	4,000	15,287
40%	6,875	11,099	12,398	29,024	51,418	34,026	25,913	16,298	7,617	8,150	4,000	10,938
50%	4,183	9,844	10,026	21,152	36,972	27,098	20,741	14,190	7,113	8,000	4,000	4,292
60%	4,000	6,200	5,833	17,051	24,932	19,564	17,274	12,619	7,100	6,500	4,000	3,425
70%	4,000	4,500	5,046	13,016	18,412	17,193	13,722	10,228	6,742	5,013	4,000	3,000
80%	4,000	4,500	4,650	9,518	14,601	12,730	11,957	9,116	6,225	5,000	4,000	3,000
90%	3,000	3,543	4,500	7,907	11,015	10,768	10,467	7,519	5,545	4,000	3,742	3,000
Long Term												
Full Simulation Period[b]	6,517	11,601	22,977	44,143	56,887	43,828	31,056	21,333	10,797	8,125	4,179	9,499
Water Year Types[c]												
Wet (32%)	8,415	17,140	47,249	89,426	103,463	81,244	55,257	39,213	18,770	10,842	4,436	19,027
Above Normal (16%)	5,427	12,884	24,469	49,565	67,378	52,557	32,721	19,885	8,108	10,860	4,082	11,106
Below Normal (13%)	7,655	10,920	9,460	17,477	36,320	18,058	17,828	13,354	7,294	8,350	4,137	3,594
Dry (24%)	5,567	7,917	7,596	15,936	25,862	22,697	18,159	11,710	7,102	5,143	4,164	3,216
Critical (15%)	4,127	4,974	6,794	11,614	15,167	12,145	10,437	7,514	5,809	4,043	3,792	3,000

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Outflow Rate (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,330	1,092	1,002	**-3,706**	**-4,003**	**-5,796**	3,533	5,006	222	1,569	270	15,141
20%	5,053	8,251	1,713	**-2,465**	**-1,314**	**-3,362**	3,819	2,940	**-1,219**	1,545	79	15,026
30%	5,079	8,456	941	5,209	4,873	2,967	5,114	4,607	**-1,075**	1,266	0	11,350
40%	2,790	6,207	2,073	3,588	**-692**	487	5,487	3,274	**-1,732**	150	0	7,119
50%	183	5,344	2,262	3,586	2,696	736	6,367	2,251	**-1,414**	274	0	610
60%	0	1,700	**-374**	3,511	3,931	1,603	5,110	1,654	**-1,042**	0	0	391
70%	0	0	**-59**	2,074	2,064	2,532	3,681	1,076	**-526**	13	0	0
80%	0	0	150	1,089	2,373	501	2,424	407	**-875**	0	227	0
90%	**-438**	43	0	1,319	928	992	1,587	405	**-795**	0	240	0
Long Term												
Full Simulation Period[b]	1,872	3,091	70	1,946	1,056	214	3,988	2,449	**-1,055**	681	77	5,516
Water Year Types[c]												
Wet (32%)	2,882	3,854	**-1,713**	748	**-105**	**-1,396**	4,678	3,788	**-1,550**	999	36	13,666
Above Normal (16%)	1,316	3,374	1,848	3,293	**-452**	**-1,288**	5,576	3,192	**-1,340**	1,084	29	7,336
Below Normal (13%)	2,920	3,644	603	3,185	**-231**	520	4,168	1,652	**-1,663**	1,237	**-8**	139
Dry (24%)	1,333	2,941	460	2,682	3,130	2,595	3,384	1,388	**-526**	105	227	7
Critical (15%)	223	870	867	724	2,924	1,083	1,613	1,238	0	5	43	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 C-15-2-1. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

No Action Alternative

Statistic	Monthly Outflow Volume (TAF)											
	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

Statistic	Monthly Outflow Volume (TAF)											
	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

Statistic	Monthly Outflow Volume (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-258	3	-40	234	226	351	-210	-308	-14	-93	-9	-901
20%	-303	-491	-105	147	0	202	-254	-145	69	-95	-8	-894
30%	-312	-497	-52	-320	-242	-182	-301	-246	41	-58	0	-675
40%	-172	-366	-126	-229	26	-30	-288	-203	91	-5	0	-429
50%	-24	-318	-134	-219	-133	-55	-341	-109	76	-17	0	-42
60%	0	-100	23	-218	-228	-100	-222	-56	62	0	0	-20
70%	0	0	-1	-128	-115	-160	-160	-29	24	0	0	0
80%	0	0	-1	-67	-125	-31	-31	15	40	0	-14	0
90%	27	-2	0	-81	-71	-61	-36	-8	44	0	-24	0
Long Term												
Full Simulation Period[b]	-115	-180	-7	-125	-60	-16	-201	-120	58	-37	-5	-328
Water Year Types[c]												
Wet (32%)	-179	-229	98	-57	9	82	-278	-216	89	-50	-2	-814
Above Normal (16%)	-79	-176	-111	-204	15	74	-323	-174	77	-66	-2	-438
Below Normal (13%)	-180	-217	-37	-198	15	-34	-206	-69	88	-70	1	-6
Dry (24%)	-81	-174	-33	-166	-174	-160	-119	-46	23	-6	-15	0
Critical (15%)	-13	-52	-53	-54	-171	-67	-34	-24	-2	0	-5	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 C-15-2-2. Sacramento/San Joaquin River Delta Outflow, Monthly Outflow Volume

No Action Alternative

Statistic	Monthly Outflow Volume (TAF)											
	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 3

Statistic	Monthly Outflow Volume (TAF)											
	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 No Action Alternative

Statistic	Monthly Outflow Volume (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-316	9	61	313	89	343	-348	-377	-115	-34	-12	-900
20%	-320	-485	28	139	-125	114	-250	-344	20	-29	-13	-889
30%	-320	-506	151	-45	171	-120	-270	-287	24	2	0	-674
40%	-177	-367	-39	83	163	44	-265	-253	37	-5	0	-428
50%	-24	-318	-131	99	42	2	-329	-139	46	0	0	-39
60%	0	-100	39	10	8	-19	-191	-101	14	29	0	-10
70%	0	0	22	-33	56	-29	-157	-13	14	0	0	0
80%	0	0	-1	14	-3	7	-33	-27	26	0	-5	0
90%	0	-2	0	11	1	-8	-52	-9	17	0	-17	0
Long Term												
Full Simulation Period[b]	-124	-181	49	52	50	14	-195	-159	9	-5	-5	-326
Water Year Types[c]												
Wet (32%)	-186	-229	203	100	41	20	-292	-285	-2	-6	-2	-814
Above Normal (16%)	-90	-174	-40	46	96	55	-302	-241	29	-22	-5	-435
Below Normal (13%)	-190	-228	-18	79	138	7	-163	-90	12	-1	0	10
Dry (24%)	-91	-173	-15	12	15	-11	-117	-69	14	6	-13	0
Critical (15%)	-19	-53	-21	-2	-2	5	-30	-13	-2	-3	-5	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 C-15-2-3. 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 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 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%	9	68	21	6	-4	-6	0	0	0	4	7	0
20%	8	0	0	-4	-20	-5	-27	36	-3	0	-3	0
30%	0	6	6	0	29	1	3	37	-23	20	0	0
40%	0	4	1	-8	0	0	38	-1	-12	4	0	-6
50%	-13	0	5	1	16	-9	37	29	-8	0	0	-6
60%	0	1	0	-2	-2	-1	82	45	0	0	0	3
70%	0	0	-4	0	2	-4	59	37	-7	1	0	0
80%	0	0	8	0	0	0	113	40	-12	0	0	0
90%	0	0	0	0	0	0	59	17	-4	0	-10	0
Long Term												
Full Simulation Period[b]	0	4	-3	-5	-2	-3	36	30	-5	5	-1	0
Water Year Types[c]												
Wet (32%)	-2	0	-8	-11	3	-4	0	17	-3	11	0	-1
Above Normal (16%)	2	25	3	-2	-12	-5	9	22	-3	1	0	-1
Below Normal (13%)	-1	0	0	-2	-1	-2	42	32	-11	6	0	3
Dry (24%)	1	1	-4	-1	1	0	82	40	-8	1	-1	0
Critical (15%)	1	0	0	-9	-5	-1	62	52	-2	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 C-15-2-4. 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

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 (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	258	-3	40	-234	-226	-351	210	308	14	93	9	901
20%	303	491	105	-147	0	-202	254	145	-69	95	8	894
30%	312	497	52	320	242	182	301	246	-41	58	0	675
40%	172	366	126	229	-26	30	288	203	-91	5	0	429
50%	24	318	134	219	133	55	341	109	-76	17	0	42
60%	0	100	-23	218	228	100	222	56	-62	0	0	20
70%	0	0	1	128	115	160	160	29	-24	0	0	0
80%	0	0	1	67	125	31	31	-15	-40	0	14	0
90%	-27	2	0	81	71	61	36	8	-44	0	24	0
Long Term												
Full Simulation Period[b]	115	180	7	125	60	16	201	120	-58	37	5	328
Water Year Types[c]												
Wet (32%)	179	229	-98	57	-9	-82	278	216	-89	50	2	814
Above Normal (16%)	79	176	111	204	-15	-74	323	174	-77	66	2	438
Below Normal (13%)	180	217	37	198	-15	34	206	69	-88	70	-1	6
Dry (24%)	81	174	33	166	174	160	119	46	-23	6	15	0
Critical (15%)	13	52	53	54	171	67	34	24	2	0	5	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 C-15-2-5. 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 (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-59	7	101	79	-137	-8	-138	-70	-101	58	-2	1
20%	-17	6	133	-8	-125	-88	4	-199	-49	65	-5	5
30%	-7	-8	203	275	413	62	31	-41	-16	60	0	1
40%	-5	-1	87	311	137	75	23	-51	-55	0	0	2
50%	0	0	3	318	175	57	12	-30	-31	17	0	2
60%	0	0	17	228	236	80	31	-44	-48	29	0	10
70%	0	0	22	95	171	131	4	16	-10	0	0	0
80%	0	0	0	81	122	37	-2	-42	-13	0	9	0
90%	-27	0	0	92	72	53	-17	-1	-27	0	7	0
Long Term												
Full Simulation Period[b]	-9	-1	56	177	111	30	6	-39	-49	33	0	3
Water Year Types[c]												
Wet (32%)	-7	1	106	157	32	-62	-13	-69	-91	44	1	0
Above Normal (16%)	-11	3	70	250	81	-19	21	-67	-48	44	-3	3
Below Normal (13%)	-10	-11	19	277	123	41	43	-20	-76	70	0	15
Dry (24%)	-10	1	18	178	190	148	3	-23	-9	11	2	0
Critical (15%)	-6	-1	33	52	169	72	3	11	0	-2	-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.

Table C-15-2-6. 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 (TAF)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	266	65	62	-228	-230	-356	210	308	13	96	17	901
20%	311	491	105	-152	-20	-207	227	181	-73	95	5	894
30%	312	503	58	320	271	182	304	283	-64	78	0	675
40%	172	369	127	221	-25	30	326	201	-103	9	0	424
50%	11	318	139	220	150	45	379	138	-84	17	0	36
60%	0	101	-23	216	226	99	304	102	-62	0	0	23
70%	0	0	-4	128	117	156	219	66	-31	1	0	0
80%	0	0	9	67	125	31	144	25	-52	0	14	0
90%	-27	3	0	81	71	61	94	25	-47	0	15	0
Long Term												
Full Simulation Period[b]	115	184	4	120	59	13	237	151	-63	42	5	328
Water Year Types[c]												
Wet (32%)	177	229	-105	46	-6	-86	278	233	-92	61	2	813
Above Normal (16%)	81	201	114	202	-27	-79	332	196	-80	67	2	437
Below Normal (13%)	180	217	37	196	-16	32	248	102	-99	76	-1	8
Dry (24%)	82	175	28	165	175	160	201	85	-31	6	14	0
Critical (15%)	14	52	53	45	166	67	96	76	0	0	3	0

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

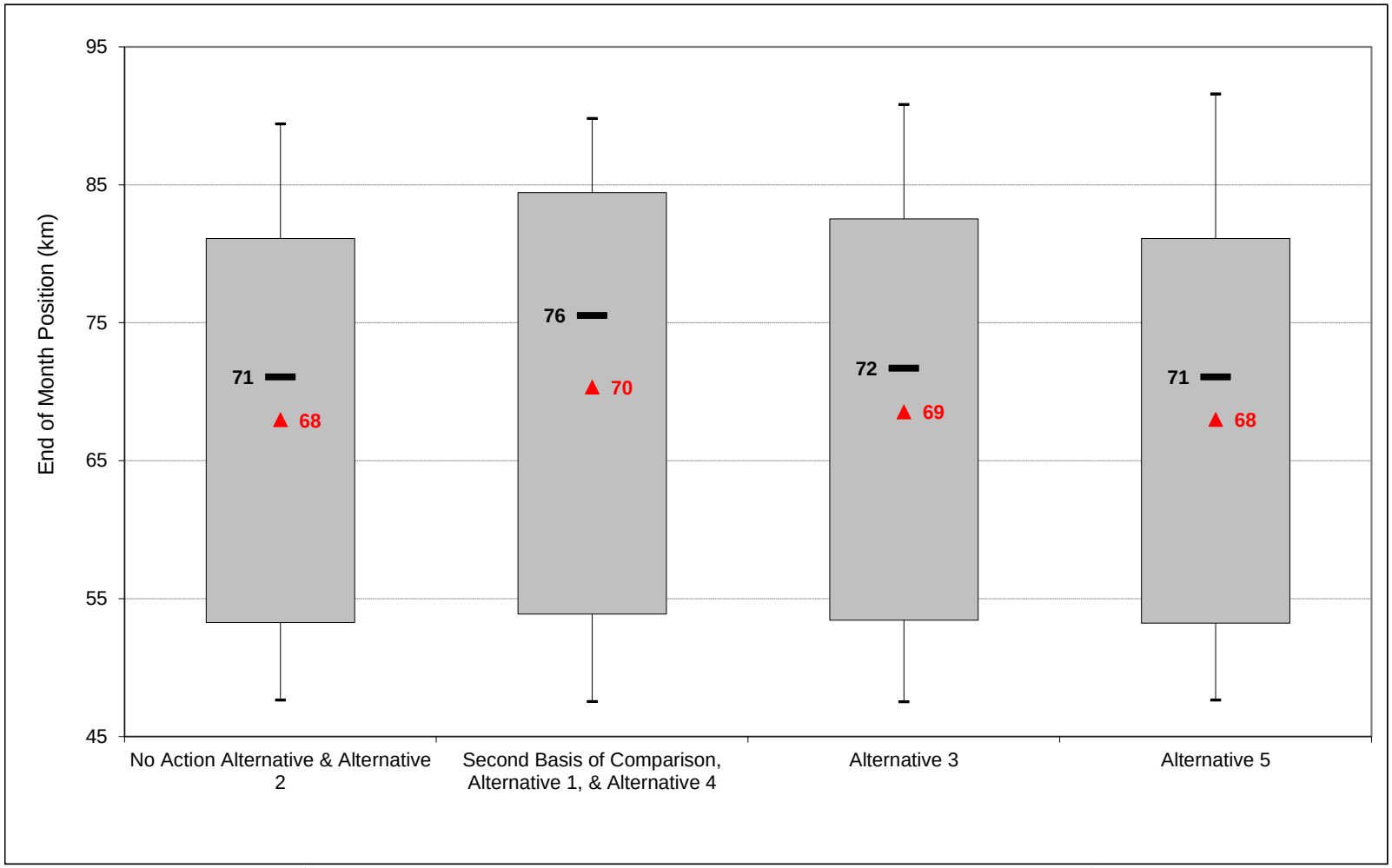
b Based on the 82-year simulation period.

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 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.

C.16. X2 Position

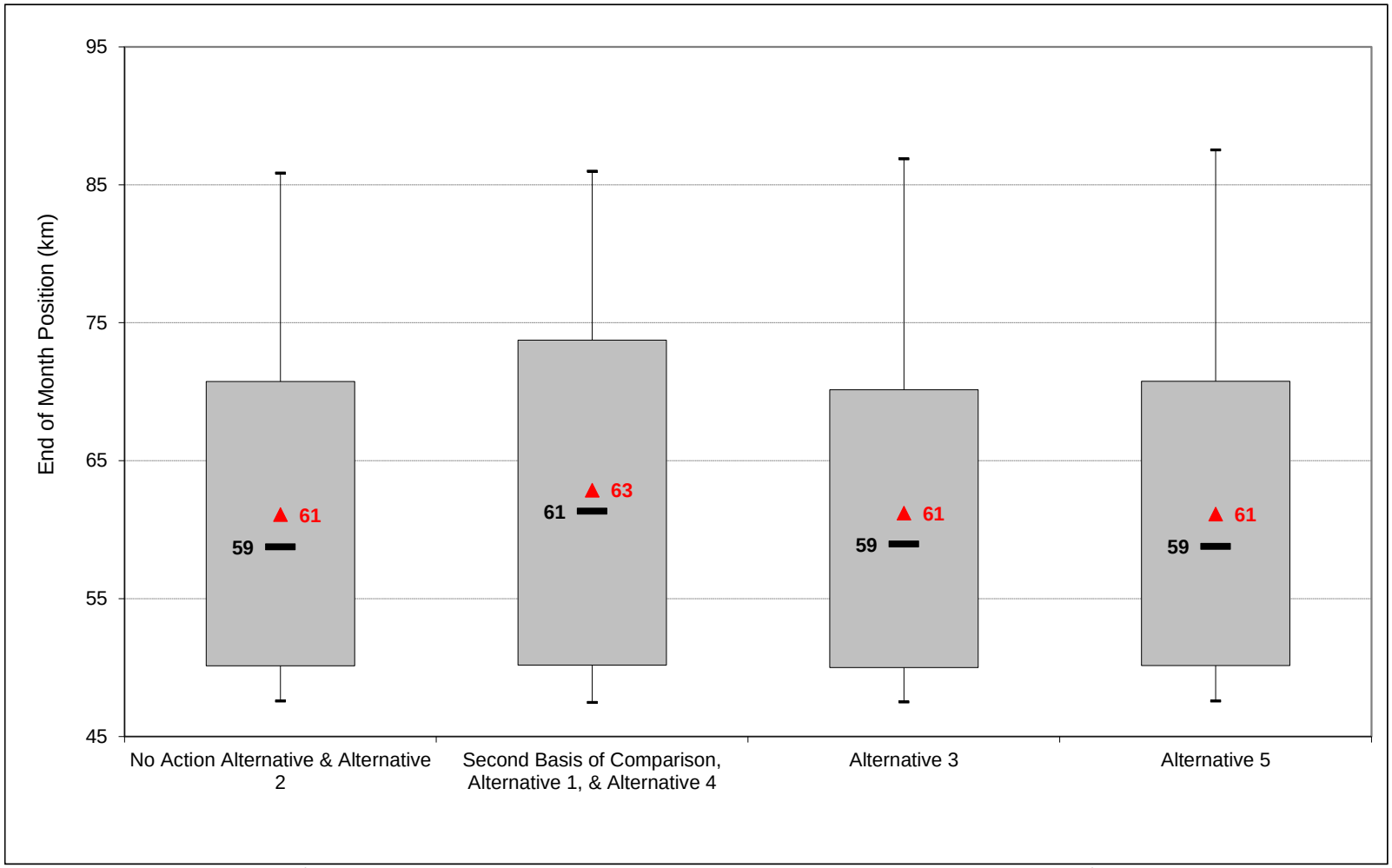
Figure C-16-1-1. X2, February Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

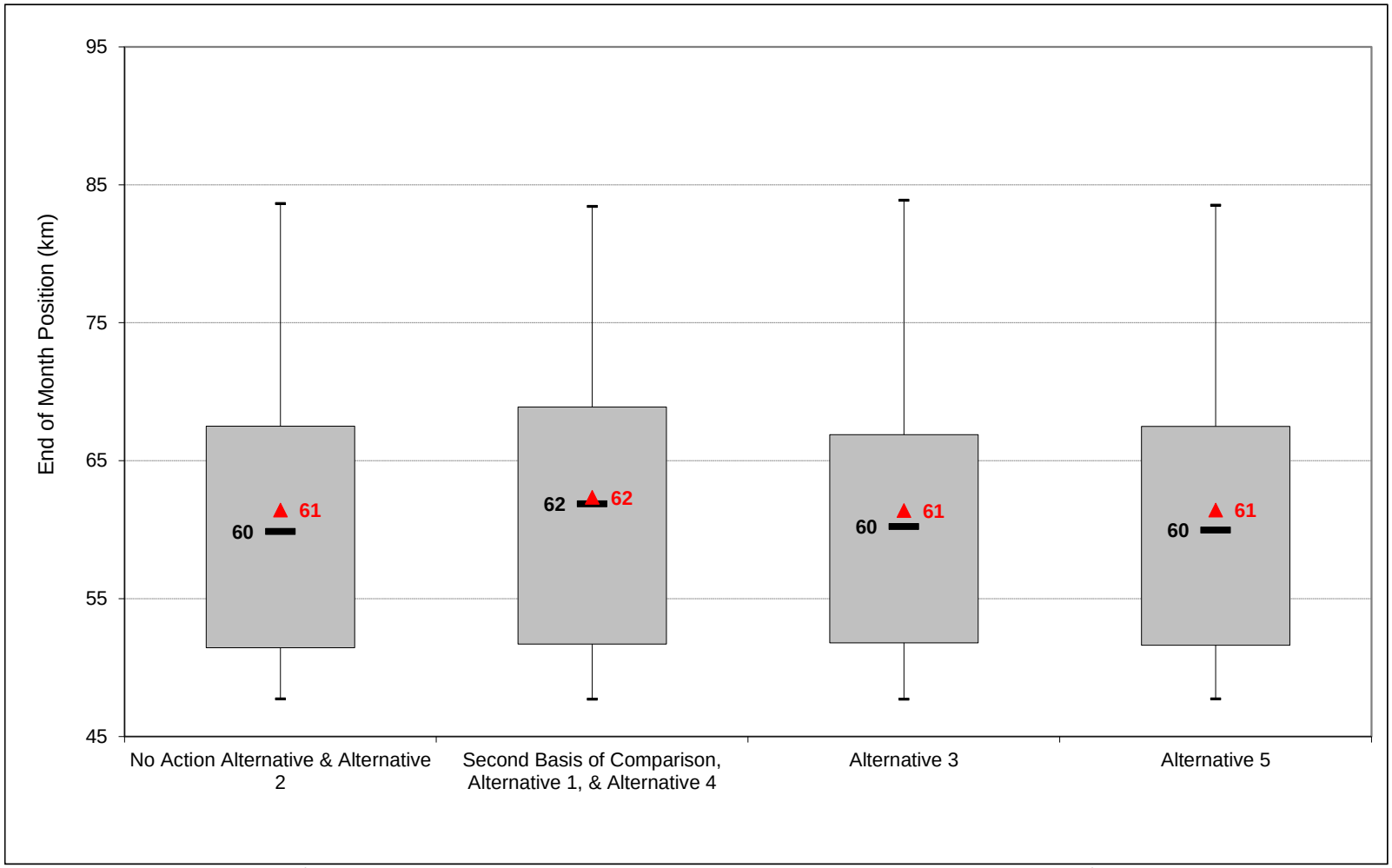
Figure C-16-1-2. X2, March Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

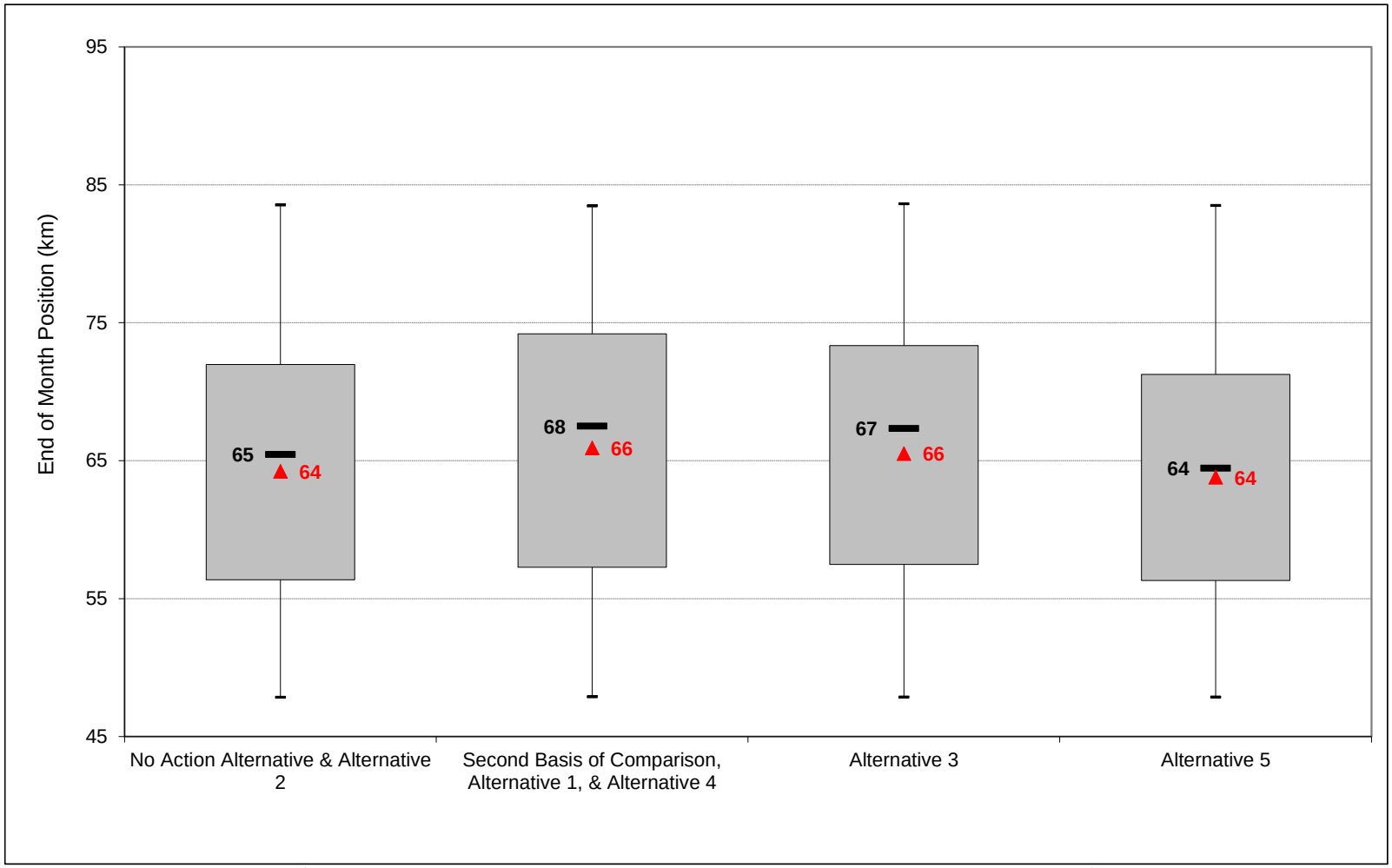
Figure C-16-1-3. X2, April Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

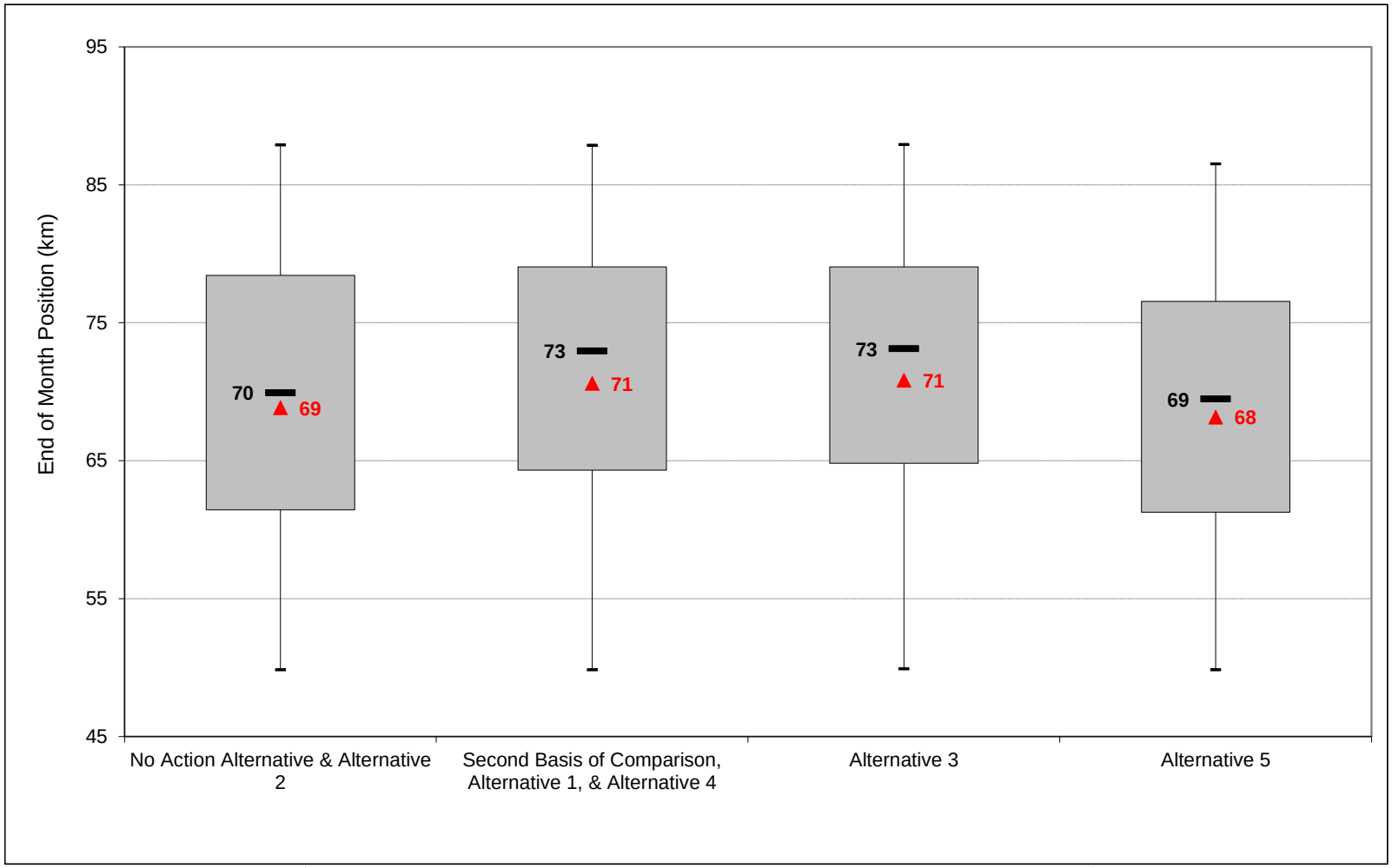
Figure C-16-1-4. X2, May Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

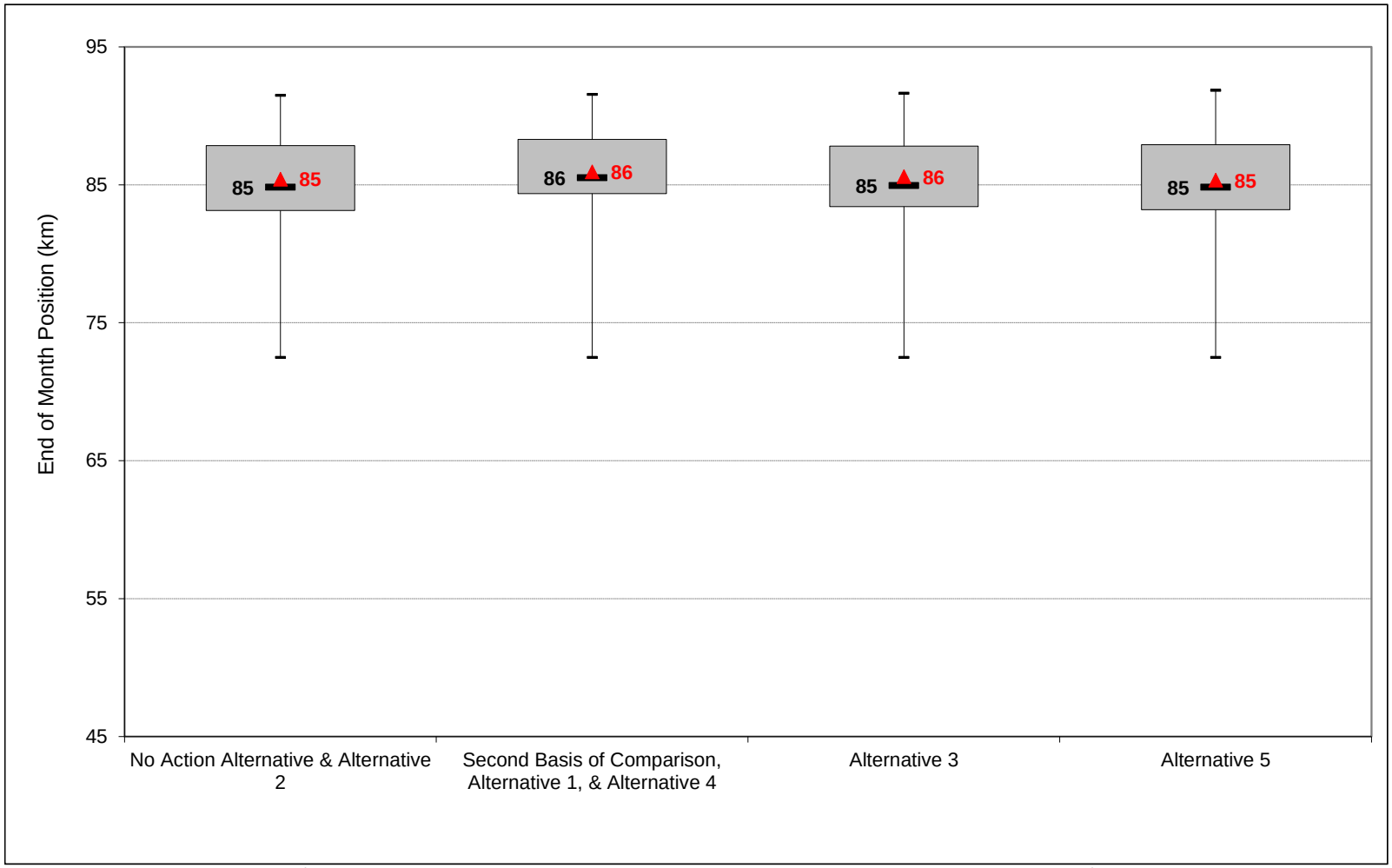
Figure C-16-1-5. X2, June Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

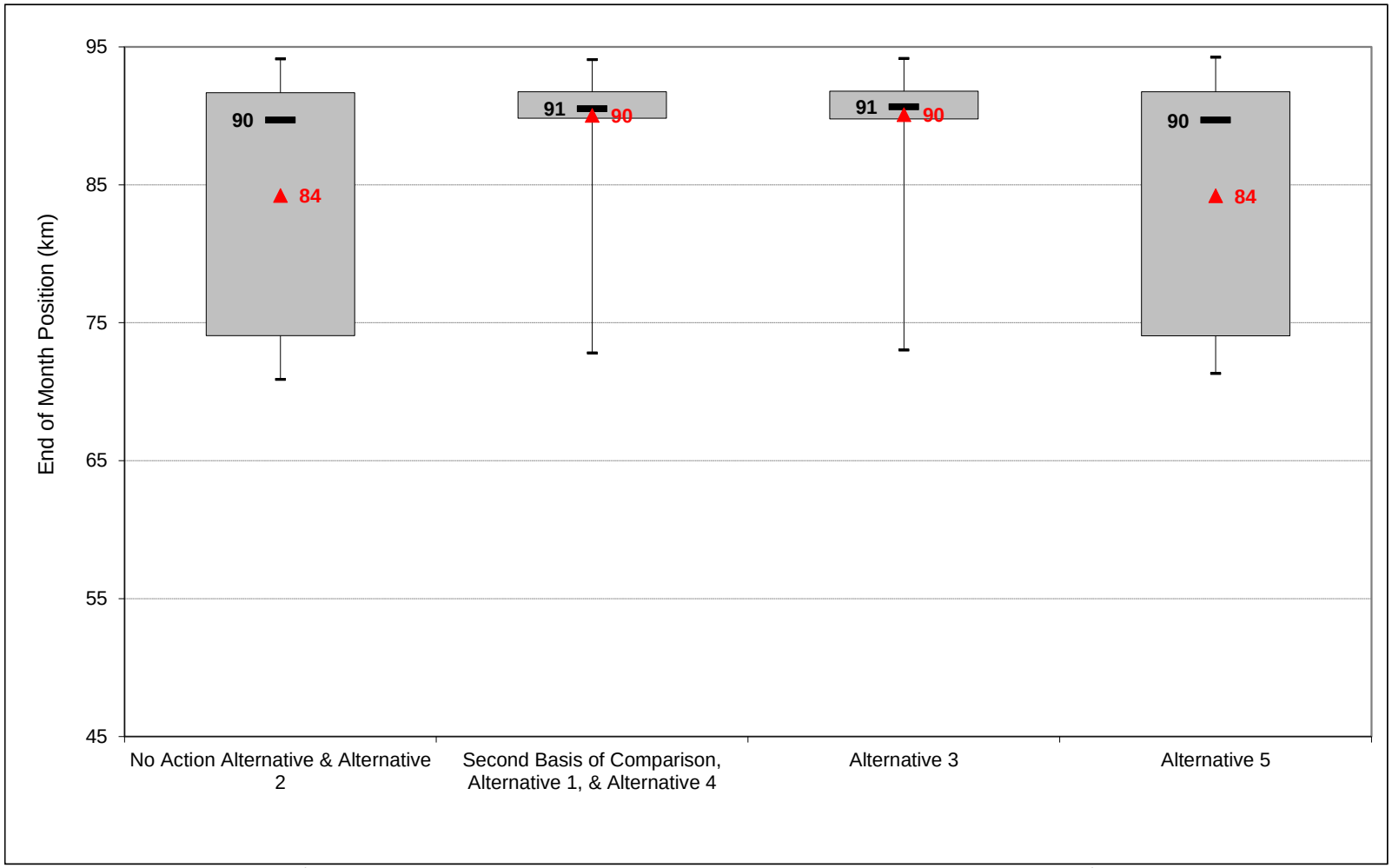
Figure C-16-1-6. X2, September Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

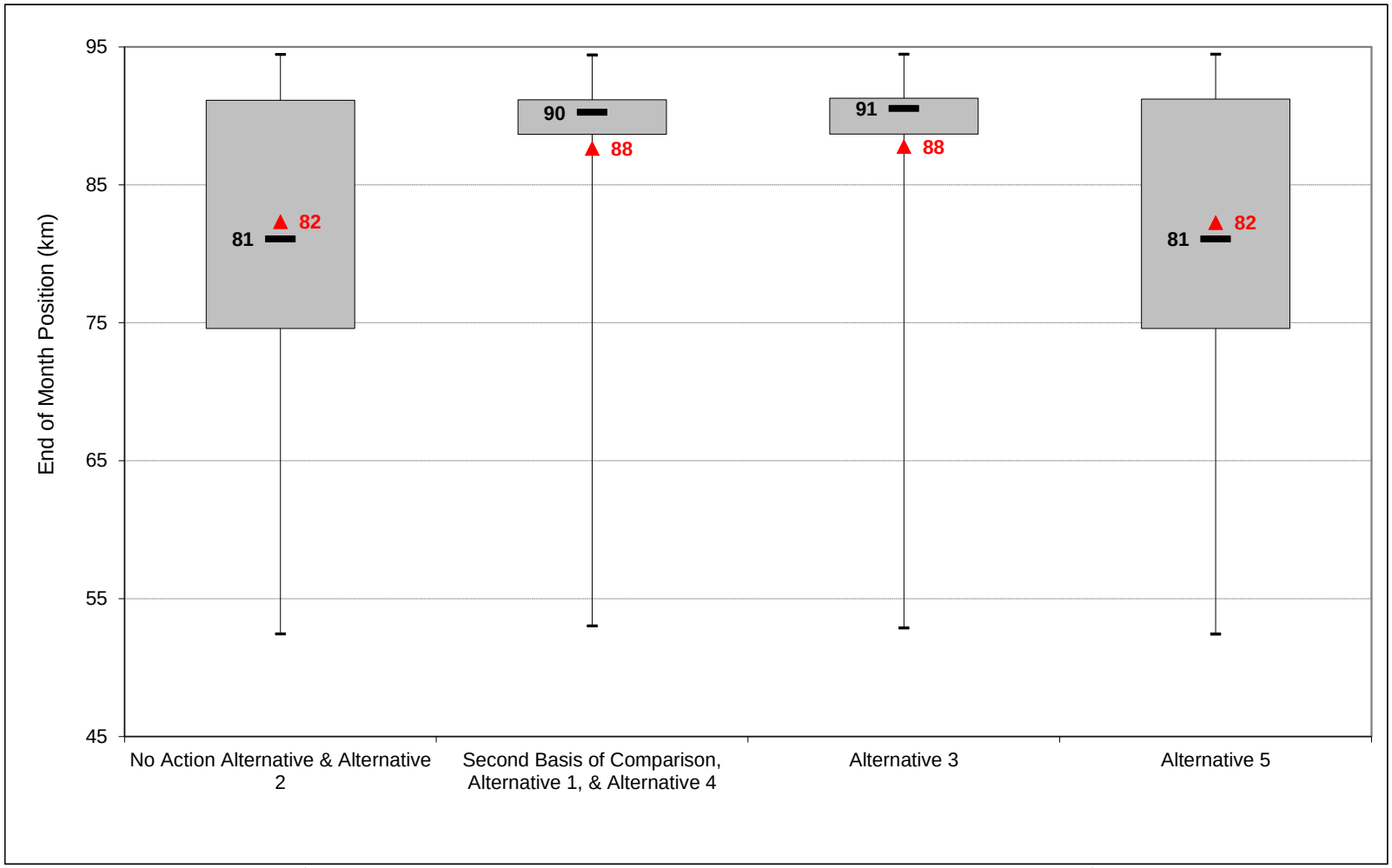
Figure C-16-1-7. X2, October Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

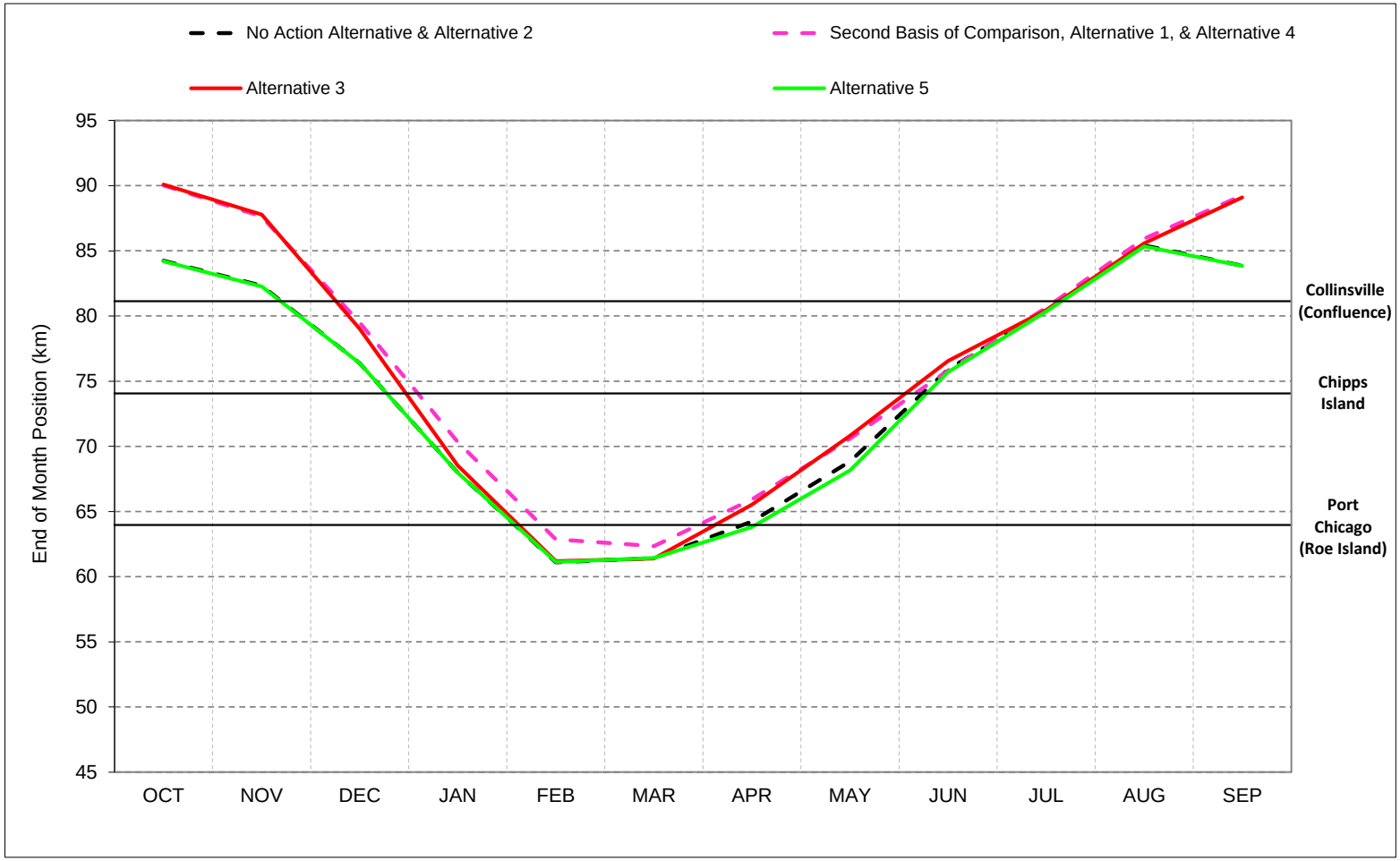
Figure C-16-1-8. X2, November Average Position



(Box=25th to 75th percentile range, whiskers=min and max, dash=median, triangle=mean)

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 Alternatives 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.

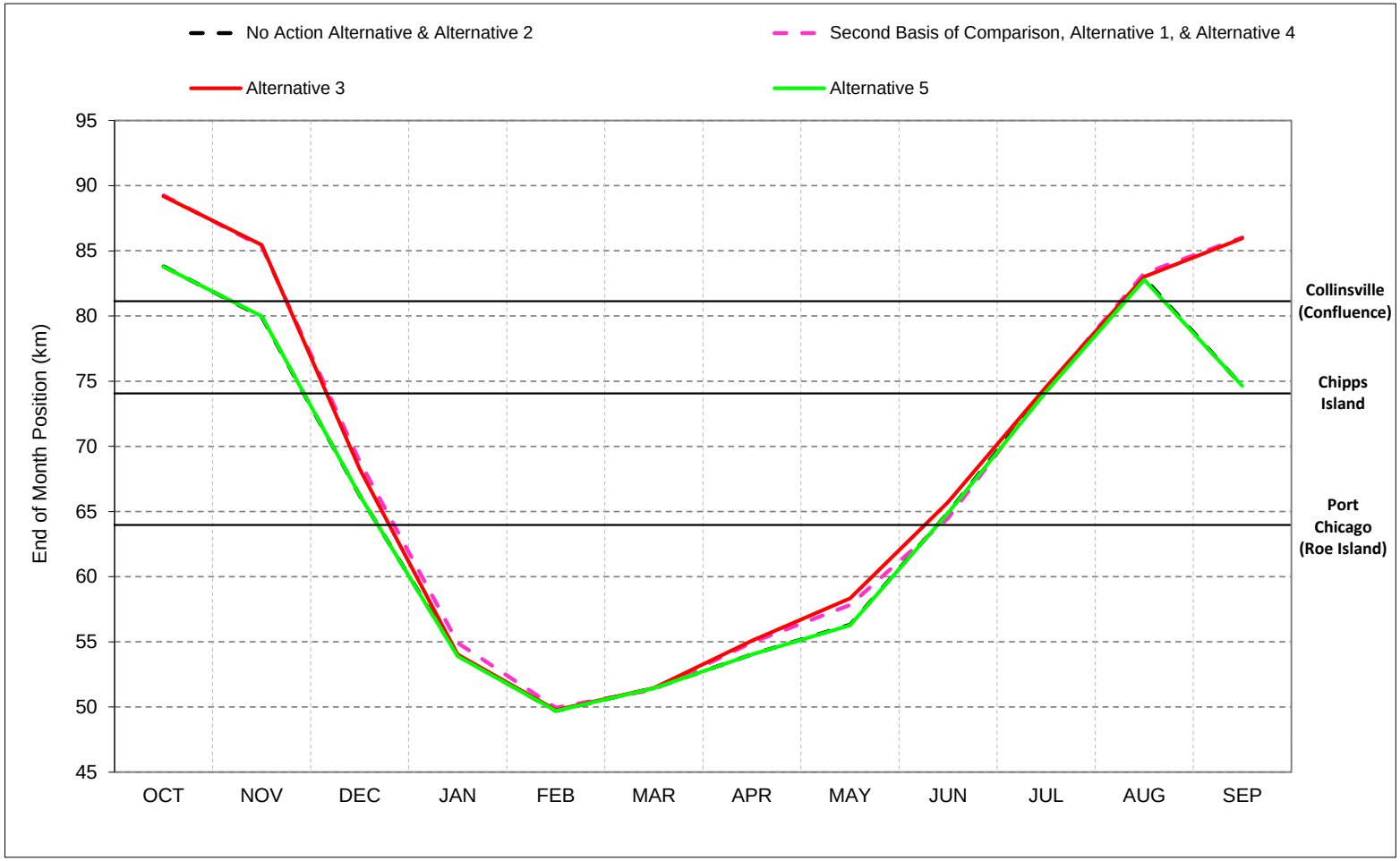
Figure C-16-2-1. X2, Long-Term* Average Position



*Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-16-2-2. X2, Wet Year* Long-Term Average Position**

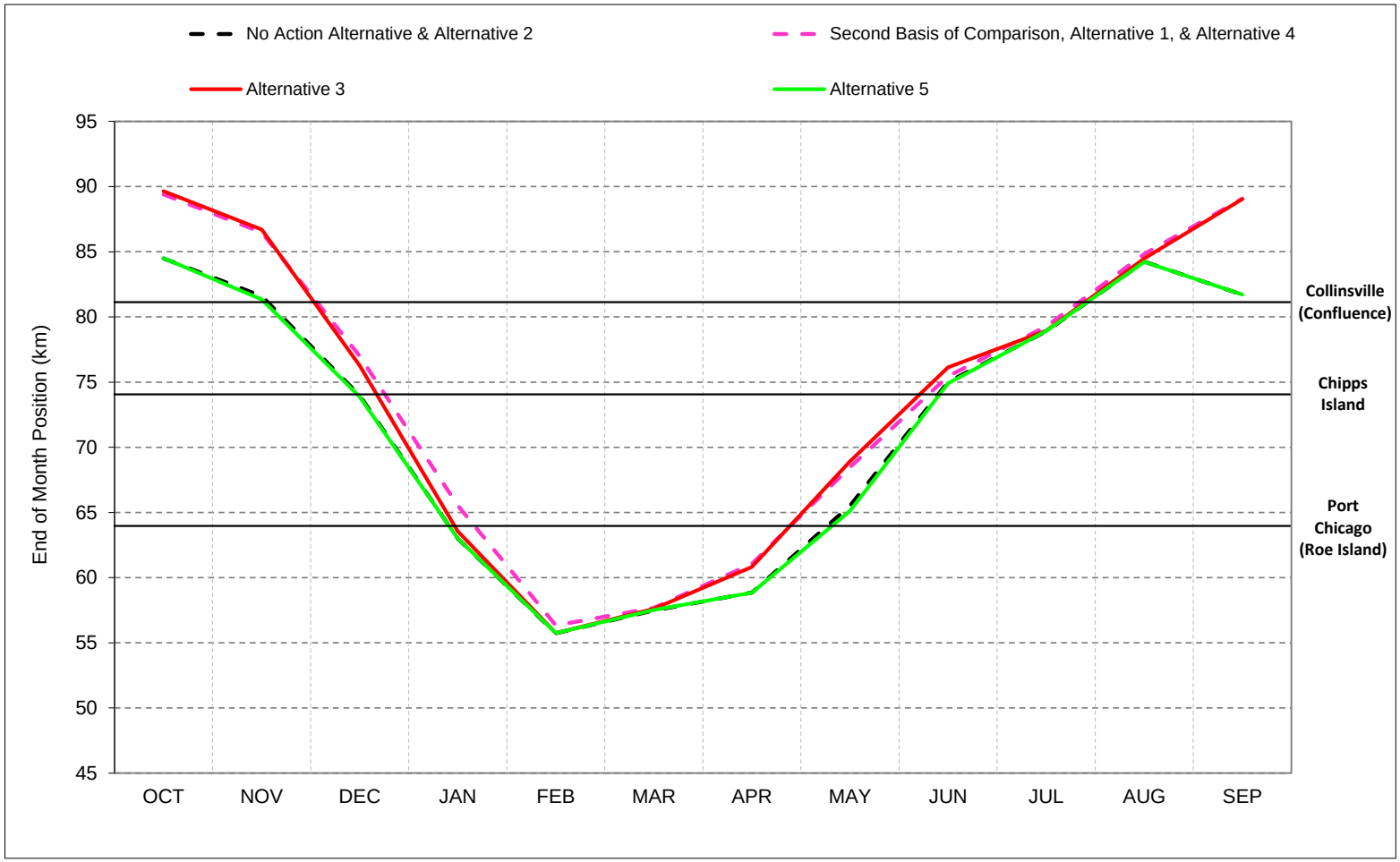


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-16-2-3. X2, Above Normal Year* Long-Term Average Position**

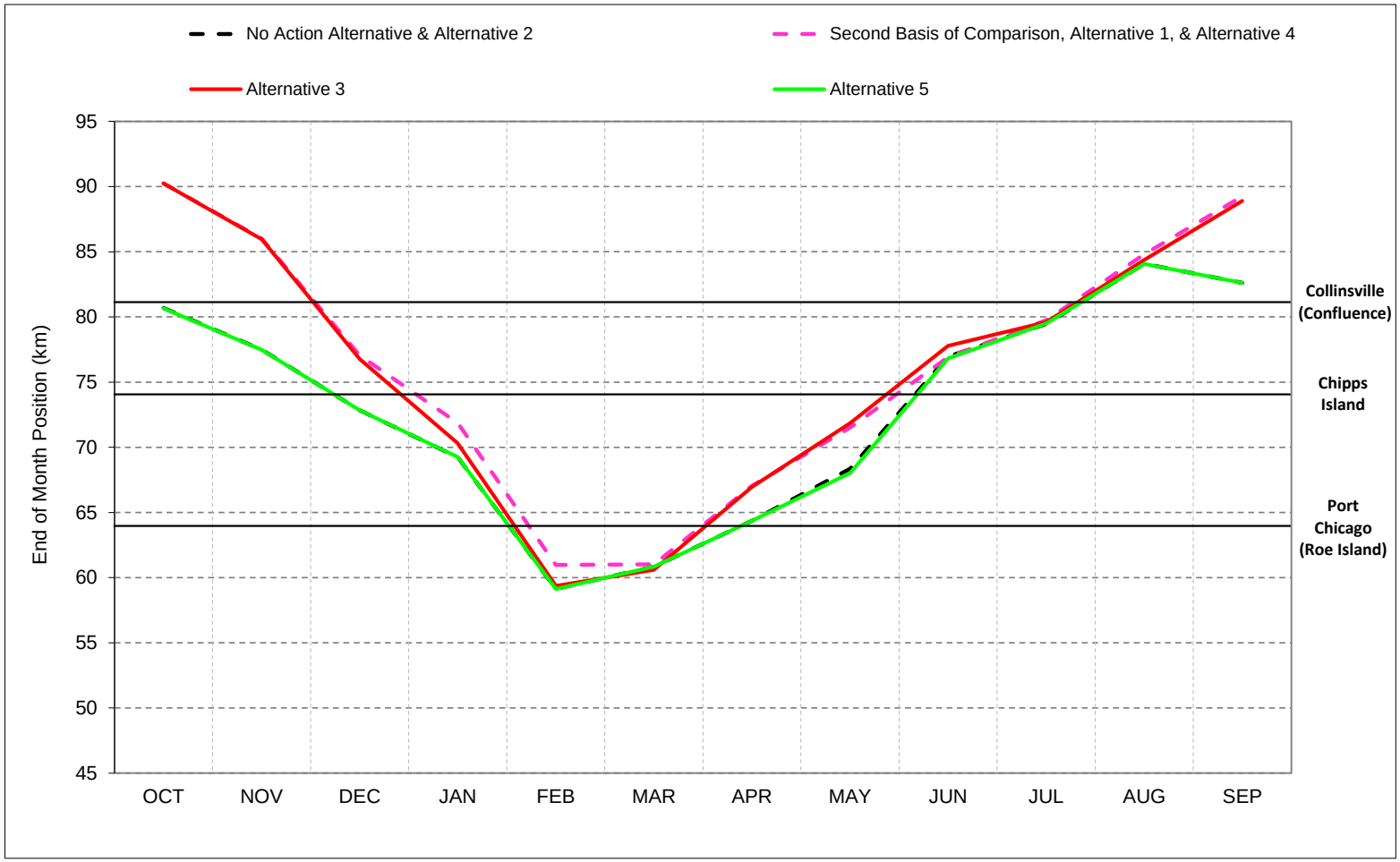


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-16-2-4. X2, Below Normal Year* Long-Term Average Position**

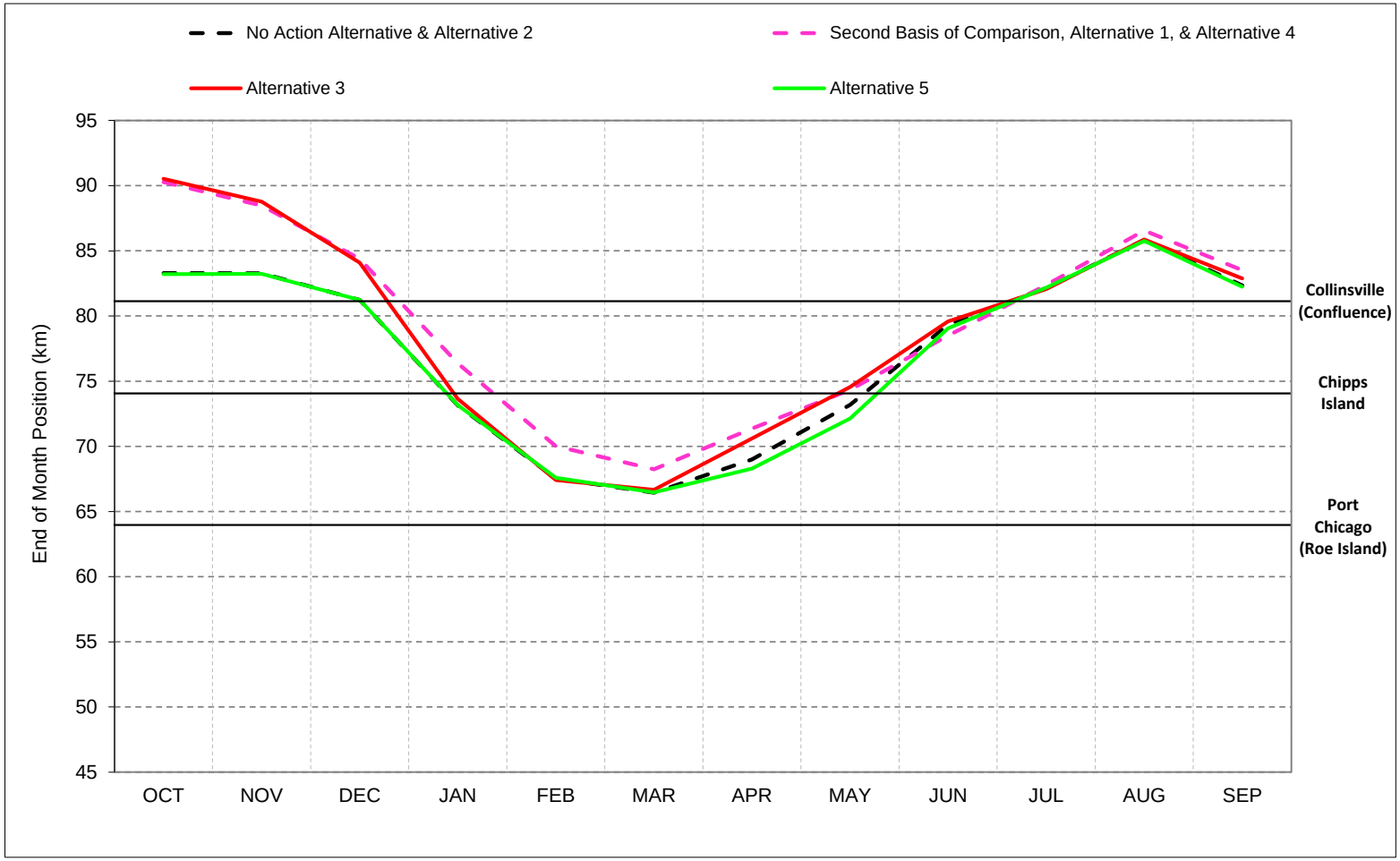


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-16-2-5. X2, Dry Year* Long-Term Average Position**

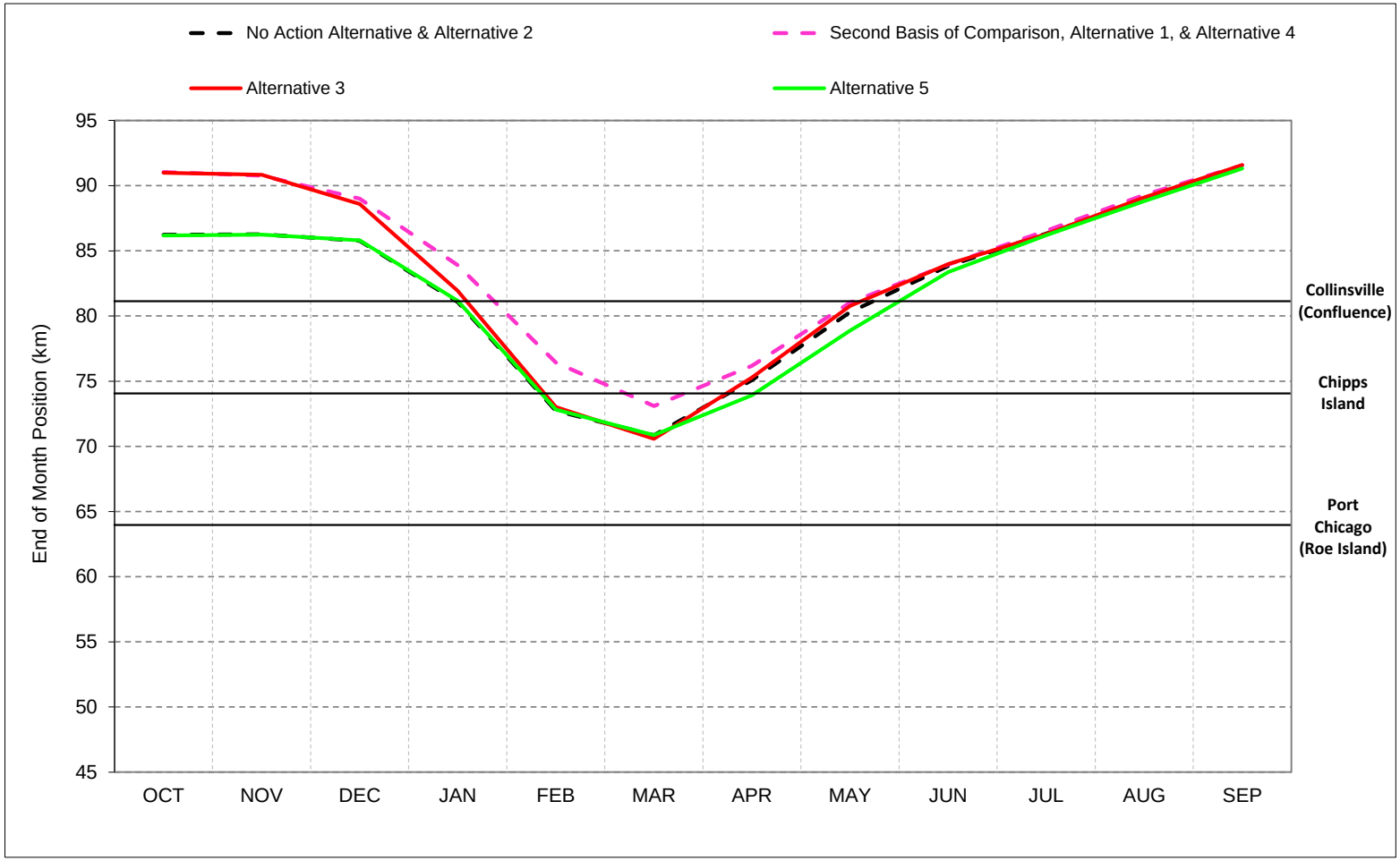


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

**Based on the 82-year simulation period.

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 Alternatives 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.

Figure C-16-2-6. X2, Critical Year* Long-Term Average Position**



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

**Based on the 82-year simulation period.

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 Alternatives 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 C-16-1. 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 (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

Statistic	End of Month Position (km)											
	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

Statistic	End of Month Position (km)											
	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 C-16-2. 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 (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 3

Statistic	End of Month Position (km)											
	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 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%	-0.2	-0.1	**0.0**	**2.1**	**0.5**	-0.1	**0.0**	**0.4**	**0.0**	-0.1	**0.3**	**0.3**
20%	**0.1**	**0.0**	**2.8**	**1.4**	0.0	-0.2	**1.1**	**0.3**	**0.2**	-0.1	**0.3**	**0.3**
30%	**0.0**	**0.2**	**5.5**	**1.7**	**0.4**	**0.4**	**1.2**	**1.2**	0.0	**0.0**	**0.2**	**0.2**
40%	**0.1**	**2.7**	**5.9**	**1.3**	**0.1**	0.0	**3.0**	**3.3**	**0.2**	-0.6	-0.2	-0.3
50%	**1.0**	**9.5**	**5.6**	**0.6**	**0.4**	**0.2**	**2.5**	**3.3**	**1.1**	**0.1**	**0.1**	**0.8**
60%	**9.2**	**8.8**	**2.9**	**0.2**	-0.8	**0.1**	**2.7**	**4.1**	**0.5**	**0.3**	0.0	**7.7**
70%	**15.8**	**13.9**	**2.2**	**0.0**	**0.3**	**0.4**	**1.8**	**2.9**	**1.7**	**0.3**	**0.1**	**14.4**
80%	**15.5**	**13.9**	**2.9**	-0.1	0.0	-0.2	**1.0**	**2.6**	**1.9**	**0.3**	**0.5**	**14.1**
90%	**14.2**	**5.7**	**0.2**	**0.1**	-0.1	-0.2	**0.5**	**1.5**	**1.4**	**0.4**	**0.1**	**13.6**
Long Term												
Full Simulation Period[b]	**5.9**	**5.5**	**2.6**	**0.6**	**0.1**	0.0	**1.3**	**2.0**	**0.6**	**0.0**	**0.2**	**5.2**
Water Year Types[c]												
Wet	**13.9**	**11.9**	**4.3**	**0.0**	**0.1**	**0.1**	**1.4**	**2.4**	**1.0**	**0.2**	**0.1**	**12.6**
Above Normal	**9.3**	**8.7**	**4.0**	**0.5**	0.0	-0.2	**1.9**	**3.2**	**0.9**	**0.1**	**0.3**	**7.0**
Below Normal	**0.1**	**1.2**	**1.4**	**0.8**	-0.3	-0.3	**1.6**	**2.1**	**0.5**	-0.1	**0.0**	-0.1
Dry	-0.1	**0.5**	**1.0**	**1.1**	**0.2**	**0.1**	**1.2**	**1.5**	**0.3**	-0.2	**0.2**	**0.2**
Critical	-0.1	**0.1**	**1.4**	**0.7**	**0.3**	**0.0**	**0.4**	**0.5**	**0.2**	**0.1**	**0.2**	**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) 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 C-16-3. 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 (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 5

Statistic	End of Month Position (km)											
	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 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%	-0.2	-0.3	**0.0**	**0.0**	**0.0**	0.0	-1.0	-1.9	-0.1	0.0	-0.1	**0.0**
20%	**0.1**	**0.0**	0.0	**0.0**	**0.0**	**0.0**	-1.1	-1.3	-0.3	0.0	**0.0**	0.0
30%	**0.0**	**0.1**	**0.0**	0.0	0.0	**0.0**	-0.5	-1.4	-0.1	-0.1	-0.1	-0.1
40%	-0.1	-0.1	-0.2	0.0	0.0	**0.0**	-0.3	-0.8	-0.6	-0.1	-0.1	-0.1
50%	-0.1	0.0	**0.0**	0.0	**0.0**	**0.1**	-0.5	-0.5	0.0	**0.1**	**0.0**	**0.0**
60%	0.0	0.0	**0.0**	**0.1**	-0.1	0.0	-0.1	**0.1**	0.0	**0.0**	0.0	**0.0**
70%	0.0	**0.0**	-0.1	0.0	0.0	0.0	**0.0**	-0.1	0.0	**0.0**	0.0	0.0
80%	0.0	**0.0**	0.0	-0.1	**0.0**	**0.0**	-0.2	-0.2	0.0	0.0	-0.1	0.0
90%	0.0	0.0	**0.2**	**0.0**	**0.0**	**0.0**	**0.0**	0.0	**0.0**	**0.0**	-0.1	0.0
Long Term												
Full Simulation Period[b]	0.0	-0.1	0.0	**0.0**	**0.0**	**0.0**	-0.4	-0.7	-0.2	-0.1	-0.1	0.0
Water Year Types[c]												
Wet	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	-0.1	0.0
Above Normal	0.0	0.0	**0.0**	0.0	0.0	**0.0**	0.0	-0.2	-0.1	**0.0**	0.0	**0.0**
Below Normal	0.0	-0.4	-0.2	**0.0**	0.0	**0.0**	-0.5	-0.8	-0.1	0.0	-0.1	-0.1
Dry	0.0	**0.1**	**0.0**	**0.1**	**0.0**	**0.0**	-0.9	-1.1	-0.3	**0.0**	0.0	0.0
Critical	-0.1	-0.1	**0.0**	**0.2**	**0.2**	**0.1**	-0.9	-1.6	-0.7	-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 C-16-4. X2, End of Month Position

Second Basis of Comparison

Statistic	End of Month Position (km)											
	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

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 (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

Statistic	End of Month Position (km)											
	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 C-16-5. X2, End of Month Position

Second Basis of Comparison

Statistic	End of Month Position (km)											
	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

Statistic	End of Month Position (km)											
	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

Statistic	End of Month Position (km)											
	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 C-16-6. X2, End of Month Position

Second Basis of Comparison

Statistic	End of Month Position (km)											
	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

Statistic	End of Month Position (km)											
	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

Statistic	End of Month Position (km)											
	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.