

Shasta Storage

ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,250	3,252	3,356	3,650	3,936	4,242	4,552	4,552	4,500	4,150	3,700	3,400
20%	3,250	3,252	3,334	3,590	3,831	4,147	4,531	4,552	4,462	3,977	3,607	3,400
30%	3,238	3,196	3,317	3,531	3,713	4,062	4,487	4,552	4,318	3,762	3,397	3,310
40%	3,055	3,135	3,285	3,466	3,654	4,008	4,426	4,522	4,125	3,593	3,234	3,158
50%	2,954	2,968	3,234	3,342	3,530	3,953	4,262	4,402	3,996	3,417	3,122	3,074
60%	2,813	2,838	3,077	3,252	3,437	3,841	4,185	4,250	3,813	3,221	2,968	2,894
70%	2,643	2,709	2,763	3,029	3,282	3,593	4,074	3,977	3,622	3,118	2,801	2,751
80%	2,327	2,314	2,368	2,781	3,193	3,416	3,939	3,700	3,259	2,860	2,503	2,457
90%	1,762	1,621	2,026	2,157	2,420	2,716	2,688	2,958	2,687	2,413	2,010	1,910
Long Term												
Full Simulation	2,718	2,722	2,854	3,101	3,354	3,695	4,052	4,048	3,758	3,286	2,952	2,829
Water Year Types												
Wet	3,175	3,178	3,267	3,455	3,652	3,869	4,348	4,489	4,369	3,932	3,539	3,317
Above Norm	2,990	2,917	3,096	3,244	3,494	4,004	4,464	4,489	4,173	3,568	3,231	3,119
Below Norm	2,924	2,972	3,045	3,159	3,448	3,846	4,283	4,274	3,909	3,382	3,064	2,979
Dry	2,568	2,626	2,842	2,957	3,325	3,781	4,016	3,891	3,474	3,010	2,722	2,665
Critical	1,439	1,390	1,510	2,341	2,503	2,703	2,781	2,625	2,266	1,909	1,615	1,555
Dry & Crit	2,116	2,132	2,309	2,711	2,996	3,350	3,522	3,385	2,991	2,570	2,279	2,221

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,884	3,886	3,983	4,274	4,554	4,863	5,186	5,186	5,134	4,784	4,334	4,034
20%	3,884	3,886	3,960	4,186	4,428	4,761	5,152	5,186	5,095	4,623	4,238	4,034
30%	3,853	3,804	3,927	4,149	4,309	4,664	5,119	5,186	4,951	4,354	4,017	3,855
40%	3,564	3,683	3,890	4,002	4,217	4,610	5,025	5,125	4,749	4,119	3,841	3,741
50%	3,487	3,541	3,810	3,926	4,114	4,499	4,832	5,010	4,511	3,917	3,607	3,524
60%	3,161	3,307	3,578	3,843	3,965	4,347	4,728	4,739	4,299	3,752	3,359	3,373
70%	3,072	3,054	3,082	3,514	3,886	4,097	4,547	4,376	4,104	3,561	3,247	3,117
80%	2,715	2,693	2,736	3,084	3,454	3,921	4,227	4,157	3,698	3,212	2,909	2,836
90%	2,021	1,858	2,164	2,356	2,594	3,060	2,955	3,209	2,979	2,634	2,274	2,171
Long Term												
Full Simulation	3,179	3,190	3,338	3,588	3,859	4,204	4,560	4,553	4,254	3,769	3,428	3,301
Water Year Types												
Wet	3,784	3,783	3,877	4,067	4,286	4,500	4,977	5,115	4,990	4,542	4,154	3,929
Above Norm	3,515	3,445	3,636	3,743	4,039	4,559	5,026	5,083	4,776	4,164	3,816	3,696
Below Norm	3,369	3,461	3,564	3,624	3,928	4,326	4,769	4,764	4,381	3,847	3,528	3,441
Dry	2,938	2,996	3,242	3,408	3,785	4,256	4,484	4,330	3,893	3,397	3,096	3,036
Critical	1,673	1,624	1,752	2,624	2,782	2,988	3,057	2,896	2,534	2,163	1,850	1,779
Dry & Crit	2,432	2,447	2,646	3,095	3,384	3,749	3,913	3,756	3,349	2,904	2,598	2,533

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	634	634	627	624	618	621	634	634	634	634	634	634
20%	634	634	626	596	597	614	621	634	633	646	631	634
30%	615	608	610	618	596	602	632	634	633	592	620	546
40%	509	549	605	536	563	602	599	603	623	526	606	583
50%	533	574	576	584	584	546	570	607	515	500	486	450
60%	348	469	501	591	528	506	543	489	486	531	390	478
70%	430	344	319	484	605	504	473	398	482	443	446	366
80%	388	379	368	303	260	505	288	456	438	352	406	379
90%	259	237	138	199	174	344	267	252	292	221	264	261
Long Term												
Full Simulation	462	468	484	487	505	509	508	505	497	482	476	472
Water Year Types												
Wet	609	604	609	613	634	631	629	625	621	610	615	613
Above Norm	525	527	540	499	546	555	562	594	603	596	585	577
Below Norm	445	488	519	465	480	480	486	490	472	466	464	461
Dry	371	370	400	451	460	475	468	439	419	388	373	371
Critical	235	233	242	283	279	285	276	271	269	254	235	224
Dry & Crit	316	315	337	384	388	399	391	372	359	334	318	312

Trinity Storage

ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,300	2,364	2,386	2,270	2,150	1,975
20%	1,850	1,845	1,850	1,900	2,000	2,100	2,278	2,318	2,306	2,261	2,123	1,975
30%	1,642	1,695	1,805	1,849	1,964	2,100	2,234	2,234	2,163	2,003	1,839	1,686
40%	1,528	1,518	1,670	1,731	1,875	2,038	2,191	2,077	2,053	1,895	1,705	1,542
50%	1,349	1,353	1,474	1,603	1,715	1,860	2,011	1,957	1,865	1,705	1,528	1,397
60%	1,286	1,290	1,348	1,406	1,580	1,725	1,844	1,820	1,813	1,642	1,465	1,337
70%	1,211	1,223	1,261	1,334	1,438	1,552	1,659	1,668	1,666	1,528	1,380	1,254
80%	977	994	1,000	1,089	1,147	1,294	1,483	1,445	1,384	1,235	1,098	1,000
90%	718	758	778	836	887	946	1,060	1,121	1,064	962	836	738
Long Term												
Full Simulation	1,350	1,362	1,414	1,477	1,588	1,709	1,864	1,858	1,825	1,695	1,545	1,410
Water Year Types												
Wet	1,747	1,762	1,776	1,772	1,934	2,065	2,251	2,285	2,260	2,138	2,007	1,846
Above Norm	1,573	1,576	1,608	1,581	1,736	1,903	2,082	2,087	2,055	1,938	1,773	1,620
Below Norm	1,234	1,267	1,352	1,362	1,437	1,531	1,708	1,694	1,661	1,535	1,388	1,262
Dry	1,135	1,144	1,253	1,371	1,452	1,585	1,721	1,672	1,621	1,466	1,299	1,182
Critical	725	722	747	1,028	1,070	1,140	1,201	1,178	1,147	1,021	869	768
Dry & Crit	971	975	1,051	1,234	1,299	1,407	1,513	1,474	1,432	1,288	1,127	1,016

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,850	1,850	1,850	1,900	2,000	2,100	2,300	2,375	2,394	2,270	2,150	1,975
20%	1,850	1,845	1,850	1,900	2,000	2,100	2,279	2,303	2,306	2,190	2,129	1,975
30%	1,642	1,686	1,809	1,861	1,956	2,082	2,235	2,234	2,164	2,003	1,839	1,677
40%	1,511	1,530	1,630	1,731	1,906	2,018	2,182	2,109	2,010	1,877	1,697	1,566
50%	1,357	1,371	1,510	1,631	1,746	1,922	2,033	1,978	1,902	1,748	1,558	1,400
60%	1,308	1,312	1,346	1,387	1,583	1,716	1,850	1,850	1,826	1,642	1,461	1,365
70%	1,214	1,200	1,262	1,316	1,396	1,515	1,662	1,698	1,664	1,524	1,361	1,252
80%	973	1,012	1,004	1,069	1,141	1,330	1,494	1,436	1,369	1,189	1,081	994
90%	718	737	757	795	844	905	1,050	1,110	1,059	958	833	737
Long Term												
Full Simulation	1,349	1,363	1,413	1,481	1,591	1,711	1,866	1,860	1,824	1,694	1,542	1,408
Water Year Types												
Wet	1,751	1,768	1,782	1,776	1,939	2,062	2,253	2,286	2,262	2,138	2,008	1,851
Above Norm	1,577	1,584	1,614	1,583	1,740	1,907	2,086	2,091	2,053	1,938	1,768	1,619
Below Norm	1,212	1,248	1,333	1,353	1,428	1,522	1,698	1,683	1,651	1,520	1,364	1,234
Dry	1,135	1,143	1,251	1,381	1,465	1,597	1,733	1,684	1,627	1,472	1,301	1,181
Critical	729	732	753	1,035	1,072	1,143	1,204	1,180	1,141	1,021	872	778
Dry & Crit	973	978	1,052	1,243	1,308	1,415	1,521	1,483	1,433	1,291	1,129	1,020

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	11	8	0	0	0
20%	0	0	0	0	0	0	1	-15	0	-71	5	0
30%	0	-9	4	12	-8	-18	1	1	1	0	0	-9
40%	-16	12	-40	0	31	-20	-9	32	-43	-18	-9	24
50%	8	18	36	28	31	62	22	21	36	43	30	3
60%	22	22	-1	-19	3	-9	6	30	13	0	-4	27
70%	3	-23	2	-18	-42	-36	4	30	-2	-4	-18	-2
80%	-5	18	4	-20	-6	36	11	-10	-15	-46	-17	-6
90%	-1	-21	-20	-41	-42	-41	-11	-11	-6	-4	-3	-2
Long Term												
Full Simulation	-1	1	0	3	3	1	3	2	-1	-1	-3	-2
Water Year Types												
Wet	4	5	5	5	4	-3	3	1	2	0	1	5
Above Norm	5	7	6	2	4	4	4	4	-2	0	-4	0
Below Norm	-22	-19	-19	-9	-9	-9	-10	-11	-10	-15	-23	-27
Dry	0	-1	-2	10	12	12	12	12	5	6	1	-1
Critical	4	10	5	7	2	3	3	3	-5	1	3	10
Dry & Crit	2	3	1	9	8	8	8	8	1	4	2	4

Folsom Storage

ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	709	567	567	567	567	661	792	967	967	942	792	750
20%	687	567	567	567	567	656	792	967	967	908	792	741
30%	592	561	567	567	563	652	792	967	967	839	744	663
40%	538	529	558	561	558	646	792	967	949	765	668	585
50%	494	484	524	543	553	634	792	967	852	663	592	551
60%	439	463	488	509	527	621	792	914	792	596	514	469
70%	408	442	430	460	475	603	748	757	708	552	482	440
80%	378	380	401	422	457	554	660	701	630	478	419	395
90%	316	335	365	370	402	476	567	576	518	418	360	326
Long Term												
Full Simulation	499	469	485	500	508	599	724	842	799	675	584	537
Water Year Types												
Wet	642	543	536	527	515	631	788	960	949	861	734	690
Above Norm	493	466	488	534	539	641	788	957	896	704	609	550
Below Norm	513	487	491	539	545	627	778	912	860	691	622	559
Dry	429	458	475	473	515	599	709	775	695	571	498	458
Critical	284	308	383	399	409	455	478	492	462	378	322	289
Dry & Crit	371	398	438	443	472	541	617	662	602	494	427	390

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	709	567	567	567	567	661	792	967	967	942	792	750
20%	687	567	567	567	567	656	792	967	967	908	786	740
30%	592	567	567	567	563	652	792	967	967	831	739	650
40%	552	565	563	563	558	646	792	967	960	742	671	594
50%	517	520	539	546	554	635	792	967	869	681	617	569
60%	486	491	512	519	530	621	792	926	813	639	573	525
70%	446	449	445	467	484	611	752	796	742	587	499	457
80%	378	390	396	427	457	552	669	721	652	513	440	413
90%	310	334	369	370	407	483	563	579	521	418	360	323
Long Term												
Full Simulation	511	482	492	504	511	602	727	848	810	686	596	549
Water Year Types												
Wet	649	552	544	528	515	631	788	960	952	868	739	696
Above Norm	504	480	497	534	539	641	788	957	904	707	621	561
Below Norm	518	495	494	538	546	628	778	913	867	682	620	556
Dry	462	487	487	486	523	605	720	792	724	610	531	490
Critical	285	309	384	406	417	463	487	501	473	390	332	299
Dry & Crit	391	416	446	454	480	548	627	676	624	522	452	413

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	-6	-1
30%	0	6	0	0	0	0	0	0	0	-8	-6	-13
40%	14	36	5	2	0	0	0	0	11	-22	2	9
50%	23	36	15	3	1	1	0	0	18	18	25	17
60%	47	29	24	10	3	0	0	12	21	43	58	56
70%	38	7	15	7	9	8	4	40	34	34	16	17
80%	0	11	-4	5	0	-2	9	20	22	35	21	19
90%	-6	-1	4	0	5	6	-4	3	3	0	0	-3
Long Term												
Full Simulation	12	13	7	4	3	3	4	5	12	11	12	12
Water Year Types												
Wet	8	9	8	1	0	0	0	0	3	7	5	6
Above Norm	12	15	9	0	0	0	0	0	8	3	12	12
Below Norm	5	9	3	-2	1	1	0	1	7	-9	-2	-3
Dry	33	30	12	12	8	7	11	17	30	38	34	32
Critical	0	0	1	8	8	7	9	9	11	11	10	10
Dry & Crit	20	18	7	10	8	7	10	14	22	28	24	23

Oroville Storage

ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,088	2,952	2,844	2,846	2,962	3,096	3,362	3,538	3,538	3,317	3,055	3,071
20%	2,545	2,609	2,782	2,788	2,874	3,019	3,305	3,538	3,538	3,045	2,771	2,699
30%	2,289	2,328	2,464	2,787	2,788	2,951	3,281	3,538	3,474	2,975	2,504	2,421
40%	2,081	2,113	2,285	2,539	2,788	2,847	3,233	3,438	3,266	2,732	2,302	2,224
50%	1,548	1,612	1,895	2,315	2,582	2,788	3,166	3,294	3,125	2,502	2,048	1,746
60%	1,507	1,405	1,548	1,824	2,227	2,670	2,989	2,893	2,710	2,073	1,683	1,552
70%	1,311	1,262	1,282	1,501	1,795	2,142	2,553	2,654	2,420	1,835	1,541	1,460
80%	1,232	1,130	1,123	1,295	1,620	1,957	2,198	2,218	1,885	1,540	1,432	1,336
90%	1,102	1,022	1,010	1,129	1,351	1,544	1,601	1,817	1,542	1,348	1,218	1,195
Long Term												
Full Simulation	1,848	1,816	1,897	2,088	2,305	2,518	2,800	2,924	2,776	2,341	2,054	1,958
Water Year Types												
Wet	2,733	2,692	2,657	2,673	2,872	2,945	3,304	3,507	3,481	3,149	2,905	2,853
Above Norm	2,146	2,102	2,128	2,206	2,528	2,885	3,281	3,489	3,392	2,849	2,403	2,291
Below Norm	1,545	1,516	1,706	1,943	2,195	2,467	2,843	3,042	2,877	2,305	1,845	1,641
Dry	1,298	1,278	1,492	1,706	1,927	2,249	2,448	2,459	2,177	1,684	1,499	1,409
Critical	815	789	851	1,446	1,548	1,689	1,703	1,655	1,415	1,113	940	879
Dry & Crit	1,105	1,082	1,236	1,602	1,775	2,025	2,150	2,137	1,872	1,456	1,275	1,197

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,083	2,950	2,843	2,846	2,962	3,096	3,362	3,538	3,538	3,317	3,050	3,067
20%	2,546	2,611	2,788	2,788	2,856	3,018	3,305	3,538	3,538	3,046	2,768	2,696
30%	2,337	2,343	2,441	2,708	2,788	2,949	3,281	3,538	3,474	2,976	2,503	2,412
40%	2,108	2,109	2,285	2,574	2,788	2,839	3,233	3,438	3,265	2,734	2,297	2,224
50%	1,559	1,604	1,956	2,318	2,583	2,788	3,143	3,294	3,128	2,501	2,023	1,785
60%	1,475	1,407	1,547	1,827	2,227	2,627	2,898	2,942	2,783	2,091	1,700	1,544
70%	1,349	1,286	1,278	1,551	1,757	2,154	2,548	2,650	2,357	1,812	1,539	1,464
80%	1,238	1,107	1,138	1,292	1,599	1,969	2,211	2,268	1,884	1,540	1,432	1,343
90%	1,097	1,020	1,019	1,122	1,349	1,541	1,597	1,814	1,542	1,349	1,220	1,196
Long Term												
Full Simulation	1,848	1,817	1,898	2,090	2,307	2,520	2,802	2,927	2,781	2,343	2,053	1,958
Water Year Types												
Wet	2,730	2,689	2,654	2,671	2,870	2,945	3,304	3,507	3,482	3,152	2,898	2,848
Above Norm	2,151	2,106	2,134	2,200	2,521	2,881	3,277	3,485	3,389	2,843	2,399	2,289
Below Norm	1,542	1,519	1,708	1,949	2,203	2,475	2,851	3,051	2,893	2,318	1,858	1,646
Dry	1,304	1,283	1,498	1,717	1,938	2,256	2,455	2,470	2,189	1,684	1,500	1,414
Critical	810	786	848	1,445	1,546	1,688	1,703	1,655	1,413	1,110	935	876
Dry & Crit	1,106	1,084	1,238	1,608	1,781	2,029	2,154	2,144	1,879	1,454	1,274	1,199

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-4	-2	0	0	0	0	0	0	0	0	-4	-4
20%	1	2	6	0	-18	-1	0	0	0	1	-3	-3
30%	48	15	-24	-79	0	-2	0	0	0	1	0	-9
40%	28	-4	-1	35	0	-8	0	0	0	2	-5	0
50%	11	-8	61	3	1	0	-23	0	3	-2	-25	40
60%	-32	3	-1	3	0	-43	-90	49	73	18	17	-7
70%	37	23	-4	50	-37	12	-5	-5	-63	-23	-2	4
80%	6	-23	16	-3	-20	12	13	50	-1	0	0	6
90%	-6	-2	9	-7	-3	-3	-4	-3	0	1	2	1
Long Term												
Full Simulation	0	1	1	2	2	2	2	4	5	2	-1	-1
Water Year Types												
Wet	-3	-3	-3	-2	-2	0	0	0	1	4	-7	-5
Above Norm	5	5	5	-6	-7	-4	-4	-3	-3	-6	-4	-2
Below Norm	-3	3	2	6	8	8	8	9	15	14	14	5
Dry	6	5	6	10	10	7	7	11	12	0	1	5
Critical	-5	-3	-3	-1	-1	-1	-1	-1	-2	-4	-5	-3
Dry & Crit	1	2	2	6	6	4	4	7	6	-2	-1	2

San Luis (Combined State and Federal) Storage

ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,041	1,278	1,484	1,806	2,026	2,039	2,039	1,944	1,766	1,437	1,180	1,068
20%	747	900	1,143	1,433	1,710	1,883	1,990	1,827	1,416	1,067	793	697
30%	535	733	981	1,268	1,542	1,750	1,841	1,699	1,236	908	702	512
40%	417	620	872	1,147	1,419	1,639	1,662	1,503	1,065	803	610	424
50%	329	499	783	1,059	1,331	1,478	1,522	1,291	950	661	471	353
60%	279	442	682	996	1,263	1,402	1,410	1,209	852	599	419	297
70%	235	373	621	875	1,171	1,309	1,288	1,117	803	535	356	233
80%	199	348	536	835	1,045	1,211	1,234	1,042	695	468	278	204
90%	100	314	475	763	999	1,129	1,137	911	542	394	206	131
Long Term												
Full Simulation	471	654	879	1,147	1,387	1,534	1,566	1,401	1,056	791	587	465
Water Year Types												
Wet	656	879	1,133	1,300	1,557	1,739	1,833	1,704	1,375	1,112	903	672
Above Norm	233	457	680	1,134	1,364	1,497	1,571	1,388	979	711	543	239
Below Norm	634	796	1,030	1,126	1,385	1,502	1,535	1,337	919	691	558	582
Dry	347	500	695	1,052	1,270	1,405	1,376	1,193	876	636	331	331
Critical	303	431	626	996	1,221	1,357	1,303	1,143	870	527	363	309
Dry & Crit	329	472	667	1,030	1,250	1,386	1,347	1,173	874	592	344	322

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	1,043	1,203	1,438	1,808	2,012	2,039	2,039	1,942	1,761	1,436	1,180	1,065
20%	696	923	1,230	1,466	1,722	1,915	2,009	1,816	1,424	1,061	776	646
30%	533	724	926	1,270	1,507	1,737	1,801	1,690	1,211	903	710	549
40%	422	623	876	1,146	1,425	1,650	1,701	1,474	1,034	796	595	442
50%	314	484	771	1,062	1,316	1,464	1,525	1,285	946	648	486	363
60%	281	433	700	994	1,263	1,412	1,420	1,222	862	613	434	300
70%	235	384	618	915	1,150	1,330	1,318	1,127	775	533	356	237
80%	220	356	572	842	1,078	1,221	1,234	1,059	710	469	287	202
90%	100	315	476	766	1,014	1,150	1,137	934	566	387	198	128
Long Term												
Full Simulation	470	652	878	1,147	1,388	1,537	1,567	1,398	1,050	788	585	464
Water Year Types												
Wet	653	877	1,136	1,299	1,560	1,740	1,829	1,699	1,368	1,106	901	665
Above Norm	226	447	668	1,156	1,391	1,527	1,595	1,399	984	714	543	233
Below Norm	628	800	1,030	1,112	1,376	1,507	1,538	1,334	908	689	542	575
Dry	350	498	693	1,049	1,264	1,400	1,372	1,187	866	633	334	341
Critical	312	431	627	992	1,214	1,348	1,299	1,137	868	522	370	314
Dry & Crit	335	471	667	1,026	1,244	1,379	1,343	1,167	867	588	348	330

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Storage (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2	-75	-47	2	-14	0	0	-3	-6	-1	0	-3
20%	-52	22	87	33	12	32	19	-11	8	-7	-17	-51
30%	-2	-9	-56	2	-35	-13	-40	-9	-25	-6	8	37
40%	5	3	4	0	6	11	39	-29	-30	-7	-15	18
50%	-15	-15	-11	4	-15	-14	3	-5	-5	-12	15	10
60%	2	-9	18	-3	1	10	9	13	10	14	15	4
70%	0	10	-3	40	-21	20	30	10	-28	-2	0	4
80%	20	7	35	7	33	9	0	17	15	1	9	-2
90%	0	1	2	3	15	21	0	23	23	-8	-9	-3
Long Term												
Full Simulation	-1	-2	-1	0	1	3	1	-2	-6	-3	-2	-1
Water Year Types												
Wet	-3	-3	3	0	3	1	-4	-5	-7	-6	-2	-7
Above Norm	-7	-11	-12	22	27	30	24	12	5	3	0	-5
Below Norm	-6	4	0	-14	-10	5	3	-3	-11	-2	-16	-7
Dry	3	-2	-1	-3	-5	-5	-3	-6	-10	-3	3	9
Critical	9	0	1	-4	-7	-9	-4	-6	-2	-4	7	6
Dry & Crit	6	-1	0	-3	-6	-7	-3	-6	-7	-4	5	8

Keswick Release

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,737	8,728	16,939	21,852	29,598	19,144	11,736	11,432	13,734	16,000	12,305	10,989
20%	8,361	7,289	10,970	13,878	18,619	12,834	6,803	10,185	12,459	15,513	11,369	9,000
30%	7,421	6,427	5,642	7,628	9,639	9,737	5,771	9,140	11,315	13,938	10,819	7,401
40%	6,996	5,779	4,959	5,000	6,397	5,728	4,873	8,713	10,330	13,509	10,570	6,812
50%	6,479	5,422	4,579	3,259	4,000	3,917	4,014	8,243	9,801	12,705	9,944	6,166
60%	6,017	5,092	3,764	3,250	3,250	3,250	3,250	7,684	9,136	11,800	9,662	5,474
70%	5,603	4,960	3,270	3,250	3,250	3,250	3,250	7,047	8,870	11,447	9,528	5,248
80%	5,291	4,000	3,250	3,250	3,250	3,250	3,250	6,368	8,265	10,846	9,226	4,923
90%	4,686	3,343	3,250	3,250	3,250	3,250	3,250	5,594	7,831	9,624	8,431	4,366
Long Term												
Full Simulation	6,631	6,087	7,213	8,652	10,522	8,779	5,872	8,402	10,326	12,741	10,239	6,899
Water Year Types												
Wet	8,079	6,649	8,330	16,993	18,630	16,270	8,964	9,726	9,312	13,043	11,618	9,597
Above Norm	6,499	8,307	6,667	7,987	14,543	9,085	5,694	8,530	10,544	14,621	10,555	7,201
Below Norm	6,058	5,533	8,117	4,462	6,736	4,719	4,066	7,466	10,878	13,135	9,599	5,808
Dry	5,747	4,980	7,494	3,621	3,642	4,107	4,139	7,819	11,492	12,478	9,291	5,063
Critical	5,623	4,957	3,862	3,682	3,668	3,991	4,060	7,372	9,913	10,139	9,105	4,777
Dry & Crit	5,697	4,970	6,041	3,645	3,652	4,060	4,107	7,640	10,860	11,542	9,217	4,949

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,721	8,471	16,317	20,922	27,326	19,286	11,723	11,561	13,975	16,000	12,278	10,968
20%	8,282	6,992	10,965	13,874	18,613	12,579	7,518	10,034	12,636	15,831	11,399	9,579
30%	7,577	6,176	5,447	7,624	9,627	9,674	5,771	9,122	11,688	14,259	10,933	7,466
40%	7,087	5,811	5,000	4,672	5,697	5,030	4,510	8,797	10,581	13,542	10,485	6,610
50%	6,528	5,531	4,182	3,250	3,769	4,470	3,994	8,199	9,821	13,010	10,209	5,955
60%	6,088	5,021	3,758	3,250	3,250	3,250	3,250	7,748	9,303	12,420	9,865	5,562
70%	5,758	4,736	3,250	3,250	3,250	3,250	3,250	7,026	8,995	11,719	9,666	5,248
80%	5,240	3,987	3,250	3,250	3,250	3,250	3,250	6,466	8,260	11,040	9,383	5,056
90%	4,797	3,250	3,250	3,250	3,250	3,250	3,250	5,831	7,789	9,771	8,607	4,451
Long Term												
Full Simulation	6,682	5,955	6,957	8,538	10,211	8,718	5,859	8,451	10,496	12,962	10,353	6,938
Water Year Types												
Wet	8,132	6,702	8,240	16,825	18,249	16,354	8,900	9,796	9,354	13,225	11,480	9,566
Above Norm	6,658	8,253	6,487	7,830	13,722	8,928	5,574	7,989	10,472	14,673	10,782	7,242
Below Norm	6,225	4,751	7,616	4,428	6,455	4,722	3,958	7,415	11,155	13,286	9,744	5,919
Dry	5,731	5,007	6,999	3,468	3,442	3,874	4,243	8,282	11,925	12,977	9,561	5,133
Critical	5,524	4,868	3,814	3,694	3,818	3,893	4,199	7,463	10,080	10,278	9,379	4,836
Dry & Crit	5,648	4,951	5,725	3,559	3,592	3,882	4,226	7,954	11,187	11,898	9,488	5,014

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-16	-257	-621	-930	-2,272	142	-14	129	241	0	-27	-22
20%	-79	-297	-5	-5	-6	-255	715	-151	177	319	30	579
30%	156	-252	-195	-4	-12	-62	0	-18	372	321	114	65
40%	91	32	41	-328	-701	-698	-362	84	250	33	-85	-202
50%	50	109	-397	-9	-231	553	-19	-44	20	305	265	-211
60%	71	-70	-6	0	0	0	0	64	166	620	202	88
70%	155	-224	-20	0	0	0	0	-21	125	272	138	0
80%	-51	-13	0	0	0	0	0	98	-5	194	157	133
90%	112	-93	0	0	0	0	0	238	-42	147	176	84
Long Term												
Full Simulation	51	-132	-256	-114	-311	-61	-13	49	170	221	113	39
Water Year Types												
Wet	53	53	-90	-168	-380	84	-65	70	42	181	-138	-31
Above Norm	159	-54	-180	-157	-821	-156	-120	-542	-72	52	226	41
Below Norm	167	-782	-501	-34	-281	4	-108	-52	278	151	145	110
Dry	-16	27	-495	-153	-200	-233	104	463	433	500	270	70
Critical	-99	-89	-48	12	150	-98	139	90	167	139	274	59
Dry & Crit	-49	-19	-316	-87	-60	-179	118	314	327	356	271	65

Nimbus Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,074	4,665	7,285	11,051	12,434	9,415	6,282	7,652	5,948	4,968	3,880	2,426
20%	1,825	4,000	4,803	7,026	9,549	6,265	5,401	4,924	4,671	4,230	3,510	1,968
30%	1,500	3,235	2,848	4,993	6,824	4,739	4,190	3,997	3,918	3,695	2,714	1,750
40%	1,500	2,268	2,230	3,769	5,276	3,846	3,448	3,468	3,243	3,288	2,416	1,750
50%	1,500	2,000	2,000	1,947	3,565	2,919	2,558	2,370	2,711	2,950	1,998	1,750
60%	1,500	1,916	2,000	1,654	2,555	2,152	2,330	1,905	2,420	2,609	1,866	1,750
70%	1,136	1,136	1,916	1,400	1,750	1,750	1,500	1,500	2,107	2,417	1,750	1,649
80%	701	752	1,057	1,400	1,400	1,488	1,050	1,082	1,094	1,990	1,523	1,523
90%	605	595	636	701	1,359	953	953	953	851	1,315	877	877
Long Term												
Full Simulation	1,438	2,639	3,475	4,553	5,401	4,153	3,351	3,304	3,252	3,045	2,323	1,729
Water Year Types												
Wet	1,746	4,177	4,131	9,279	9,637	6,865	5,386	5,625	5,202	3,603	3,350	1,974
Above Norm	1,587	2,435	3,062	5,113	6,500	5,892	3,474	3,440	3,378	4,113	2,520	1,986
Below Norm	1,819	3,154	4,113	2,260	4,657	2,629	3,194	2,860	2,783	3,625	2,000	2,005
Dry	1,168	1,500	4,209	1,434	1,971	2,306	1,847	1,706	2,181	2,183	1,758	1,529
Critical	580	619	620	1,104	1,135	1,087	1,256	1,053	1,052	1,383	1,123	917
Dry & Crit	933	1,148	2,773	1,302	1,637	1,818	1,610	1,445	1,729	1,863	1,504	1,285

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	2,196	4,731	7,285	11,051	12,434	9,412	6,282	7,652	5,948	4,968	3,880	2,442
20%	1,769	3,969	4,903	7,026	9,549	6,249	5,369	4,924	4,671	4,246	3,510	1,909
30%	1,500	3,239	2,945	4,993	6,796	4,739	4,190	3,969	3,696	3,818	2,850	1,750
40%	1,500	2,319	2,265	3,875	5,469	3,840	3,448	3,468	3,114	3,429	2,439	1,750
50%	1,500	2,000	2,000	2,030	3,565	2,919	2,548	2,370	2,618	2,787	1,944	1,750
60%	1,500	1,877	2,000	1,646	2,516	2,152	2,149	1,845	2,260	2,542	1,750	1,750
70%	1,136	1,136	1,923	1,400	1,750	1,750	1,458	1,366	1,602	2,402	1,750	1,649
80%	701	752	1,057	1,400	1,400	1,488	1,006	1,063	1,006	1,915	1,523	1,523
90%	605	595	636	738	1,359	953	953	953	827	1,248	958	877
Long Term												
Full Simulation	1,419	2,623	3,572	4,600	5,413	4,152	3,329	3,271	3,139	3,040	2,304	1,728
Water Year Types												
Wet	1,720	4,155	4,152	9,286	9,653	6,863	5,384	5,624	5,153	3,539	3,383	1,950
Above Norm	1,580	2,380	3,160	5,094	6,496	5,889	3,472	3,434	3,243	4,194	2,373	1,997
Below Norm	1,683	3,086	4,204	2,512	4,607	2,618	3,210	2,833	2,665	3,879	1,873	2,021
Dry	1,129	1,553	4,485	1,457	2,050	2,317	1,759	1,584	1,939	2,013	1,811	1,541
Critical	732	613	620	1,102	1,130	1,087	1,227	1,050	1,024	1,365	1,141	917
Dry & Crit	970	1,177	2,939	1,315	1,682	1,825	1,546	1,370	1,573	1,754	1,543	1,292

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	122	66	0	0	0	-3	0	0	0	0	0	16
20%	-56	-31	100	0	0	-16	-33	0	0	16	0	-59
30%	0	4	97	0	-28	0	0	-28	-222	123	137	0
40%	0	51	35	107	193	-6	0	0	-129	140	23	0
50%	0	0	0	83	0	0	-10	0	-93	-163	-54	0
60%	0	-40	0	-8	-39	0	-181	-60	-160	-68	-116	0
70%	0	0	7	0	0	0	-42	-134	-505	-15	0	0
80%	0	0	0	0	0	0	-45	-18	-88	-75	0	0
90%	0	0	0	37	0	0	0	0	-24	-67	80	0
Long Term												
Full Simulation	-19	-16	97	47	12	-1	-22	-33	-113	-5	-18	0
Water Year Types												
Wet	-26	-23	21	6	16	-2	-2	-1	-50	-64	33	-24
Above Norm	-7	-55	98	-18	-4	-4	-2	-6	-135	81	-147	12
Below Norm	-135	-68	91	252	-50	-11	17	-27	-118	253	-127	17
Dry	-39	53	277	23	78	10	-88	-121	-242	-170	53	12
Critical	152	-6	0	-2	-6	0	-29	-3	-28	-18	18	0
Dry & Crit	37	29	166	13	45	6	-64	-74	-157	-109	39	7

Sacramento River at Red Bluff Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,755	12,584	26,461	38,742	43,884	29,638	17,712	13,915	13,540	14,897	11,463	11,466
20%	8,991	9,503	17,254	23,589	30,232	20,067	13,380	11,823	12,340	14,535	10,727	9,291
30%	8,247	8,093	10,972	15,607	20,843	16,506	8,743	10,445	11,319	13,141	10,067	7,592
40%	7,664	7,699	8,973	12,599	13,997	11,238	7,496	9,340	10,666	12,528	9,819	6,999
50%	7,151	7,034	7,029	9,013	10,942	9,031	6,947	8,991	9,862	11,887	9,361	6,198
60%	6,616	6,686	6,606	7,528	8,616	7,991	5,947	8,458	9,413	11,243	9,181	5,744
70%	6,241	6,363	6,037	6,793	7,625	7,518	5,431	8,025	9,044	10,712	8,997	5,429
80%	5,977	6,092	5,821	5,979	6,318	5,908	5,118	7,583	8,479	10,174	8,667	5,022
90%	5,726	5,653	5,260	5,036	5,433	5,487	4,769	6,949	8,240	9,243	8,081	4,715
Long Term												
Full Simulation	7,453	8,340	12,057	15,649	18,460	14,847	9,374	9,929	10,529	12,014	9,674	7,132
Water Year Types												
Wet	8,915	9,162	13,058	28,805	30,720	25,263	14,648	12,142	9,880	12,321	10,935	9,830
Above Norm	7,440	10,616	11,643	16,670	24,039	16,716	9,787	10,195	10,398	13,486	9,759	7,403
Below Norm	7,112	7,869	13,257	9,517	13,064	8,910	7,068	8,522	10,847	12,210	8,917	5,989
Dry	6,475	7,250	13,363	6,858	9,021	8,690	6,074	8,786	11,499	11,826	8,863	5,373
Critical	6,165	6,465	6,943	6,463	6,770	6,573	5,176	8,226	10,238	9,929	8,958	4,988
Dry & Crit	6,351	6,936	10,795	6,700	8,121	7,843	5,715	8,562	10,994	11,067	8,901	5,219

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,690	11,239	26,456	38,126	43,879	29,628	17,634	13,878	13,544	14,901	11,603	11,447
20%	8,929	8,827	16,583	23,594	30,226	20,061	13,311	11,808	12,453	14,655	10,603	9,740
30%	8,430	8,101	10,335	15,846	20,836	16,571	8,805	10,297	11,567	13,409	10,170	7,820
40%	7,751	7,513	8,508	12,558	13,137	10,695	7,587	9,519	10,692	12,701	9,802	6,825
50%	7,348	6,994	7,032	9,016	10,944	9,038	6,835	8,979	10,043	12,039	9,452	6,260
60%	6,914	6,727	6,623	7,471	8,682	7,905	5,796	8,456	9,551	11,560	9,258	5,792
70%	6,305	6,523	6,124	6,802	7,625	7,110	5,372	8,010	9,168	10,821	9,042	5,408
80%	5,975	6,078	5,915	5,980	6,319	6,065	5,018	7,572	8,570	10,219	8,824	5,139
90%	5,786	5,621	5,260	5,044	5,433	5,487	4,776	7,193	8,235	9,231	8,115	4,805
Long Term												
Full Simulation	7,498	8,209	11,803	15,537	18,150	14,782	9,329	9,930	10,635	12,162	9,729	7,149
Water Year Types												
Wet	8,968	9,216	12,968	28,641	30,340	25,348	14,566	12,204	9,911	12,491	10,787	9,798
Above Norm	7,596	10,561	11,465	16,515	23,219	16,561	9,647	9,653	10,309	13,515	9,967	7,434
Below Norm	7,276	7,086	12,762	9,485	12,784	8,906	6,900	8,412	11,053	12,275	8,994	6,072
Dry	6,441	7,279	12,869	6,707	8,823	8,446	6,117	9,100	11,741	12,110	8,959	5,379
Critical	6,064	6,379	6,896	6,476	6,921	6,467	5,316	8,295	10,380	10,040	9,211	5,036
Dry & Crit	6,290	6,919	10,480	6,614	8,062	7,655	5,797	8,778	11,197	11,282	9,060	5,242

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-64	-1,345	-5	-617	-5	-10	-78	-37	4	5	140	-19
20%	-61	-676	-671	5	-6	-5	-69	-15	112	120	-124	449
30%	183	7	-638	239	-6	65	62	-149	248	268	103	228
40%	87	-186	-465	-41	-859	-543	91	179	26	173	-17	-174
50%	197	-39	3	3	2	7	-112	-12	181	152	91	62
60%	298	41	17	-57	66	-85	-150	-2	137	317	77	48
70%	63	160	86	9	0	-408	-59	-14	124	109	45	-20
80%	-2	-13	94	1	1	157	-101	-11	92	45	157	117
90%	59	-33	0	7	1	0	7	244	-5	-13	34	91
Long Term												
Full Simulation	45	-131	-254	-112	-310	-65	-45	1	106	148	55	17
Water Year Types												
Wet	53	53	-89	-164	-380	84	-82	63	31	170	-148	-32
Above Norm	156	-55	-179	-155	-820	-154	-140	-542	-89	29	208	31
Below Norm	163	-782	-495	-32	-280	-4	-168	-109	206	66	78	83
Dry	-34	29	-494	-151	-198	-243	44	314	242	284	96	6
Critical	-101	-86	-46	13	151	-106	140	69	143	112	253	48
Dry & Crit	-61	-17	-315	-85	-59	-188	82	216	203	215	159	23

Sacramento River near Wilkins Slough Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,247	12,436	21,191	22,247	22,552	21,567	19,984	15,000	8,442	9,229	6,863	10,866
20%	8,162	9,318	19,369	21,083	21,433	20,300	17,787	10,450	7,969	8,693	6,371	8,439
30%	7,541	7,359	14,840	19,321	20,657	18,854	11,766	7,032	7,277	7,723	5,860	7,420
40%	6,791	6,717	11,924	18,005	19,723	17,015	9,738	5,494	5,995	7,264	5,541	6,547
50%	6,339	6,135	8,589	11,206	16,325	14,241	8,325	4,988	5,256	6,756	5,172	5,412
60%	5,820	5,801	7,563	9,520	13,331	11,572	7,589	4,629	4,924	5,801	4,803	4,979
70%	5,508	5,494	6,430	8,199	10,397	9,342	6,775	4,315	4,735	5,063	4,587	4,626
80%	5,203	5,001	6,041	7,062	8,277	7,989	6,212	3,893	4,628	4,604	4,514	4,519
90%	4,834	4,737	5,633	6,027	6,443	7,526	5,105	3,567	4,091	4,042	4,138	3,821
Long Term												
Full Simulation	6,807	7,533	11,593	13,721	15,411	14,178	10,633	6,970	6,178	6,588	5,448	6,512
Water Year Types												
Wet	8,360	8,491	12,066	19,158	19,714	18,215	15,244	10,353	6,774	7,167	6,430	9,367
Above Norm	6,918	8,818	12,248	16,754	19,387	17,676	12,678	7,756	6,347	7,852	5,532	6,819
Below Norm	6,694	7,706	12,861	12,461	14,767	11,779	9,226	5,469	5,994	6,400	4,497	5,340
Dry	5,595	6,490	11,662	8,565	11,557	11,568	7,227	4,710	6,021	6,251	4,763	4,666
Critical	5,281	5,534	8,328	8,114	8,644	8,647	5,348	3,995	5,166	4,791	5,373	4,160
Dry & Crit	5,469	6,108	10,329	8,385	10,392	10,399	6,475	4,424	5,679	5,667	5,007	4,463

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,251	12,071	21,074	22,212	22,553	21,566	19,984	13,823	8,527	9,177	7,145	10,846
20%	8,263	9,309	19,058	21,086	21,389	20,298	17,789	10,439	7,961	8,752	6,614	8,417
30%	7,471	7,537	13,981	19,481	20,630	18,848	11,759	6,709	7,536	7,958	5,848	7,421
40%	6,788	6,693	11,835	18,006	19,566	16,879	9,528	5,319	6,254	7,638	5,570	6,669
50%	6,486	6,165	8,529	11,222	16,337	13,763	8,351	5,038	5,730	6,950	5,180	5,476
60%	6,178	5,713	7,566	9,551	13,332	11,555	7,589	4,815	5,002	5,877	4,901	4,990
70%	5,764	5,539	6,552	8,082	10,400	9,423	6,775	4,663	4,768	5,456	4,605	4,634
80%	5,194	5,237	6,012	7,074	8,315	8,094	6,123	4,550	4,655	4,712	4,518	4,526
90%	4,835	4,768	5,627	6,051	6,493	7,287	5,048	3,896	4,282	4,009	4,329	3,821
Long Term												
Full Simulation	6,857	7,449	11,525	13,691	15,398	14,148	10,608	6,976	6,284	6,732	5,503	6,534
Water Year Types												
Wet	8,416	8,544	12,046	19,100	19,698	18,273	15,214	10,423	6,804	7,335	6,278	9,347
Above Norm	7,077	8,806	12,126	16,727	19,257	17,765	12,535	7,230	6,284	7,878	5,735	6,839
Below Norm	6,858	7,101	12,677	12,430	14,760	11,779	9,059	5,370	6,198	6,460	4,589	5,431
Dry	5,570	6,561	11,634	8,543	11,510	11,363	7,281	5,023	6,248	6,527	4,856	4,680
Critical	5,188	5,461	8,289	8,130	8,798	8,537	5,501	4,059	5,311	4,901	5,628	4,202
Dry & Crit	5,417	6,121	10,296	8,378	10,426	10,232	6,569	4,637	5,873	5,877	5,165	4,489

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4	-365	-117	-35	1	-1	-1	-1,177	84	-51	282	-19
20%	101	-9	-311	3	-44	-1	2	-10	-8	59	242	-22
30%	-71	178	-859	160	-27	-6	-6	-323	259	235	-12	1
40%	-3	-25	-90	2	-157	-136	-210	-175	259	374	30	123
50%	148	31	-59	16	13	-478	27	49	475	194	9	64
60%	357	-88	3	31	1	-17	-1	186	78	76	98	11
70%	256	45	123	-116	3	81	0	348	32	393	18	8
80%	-9	236	-29	11	37	105	-89	657	28	107	5	6
90%	1	31	-6	24	50	-238	-58	329	190	-33	190	0
Long Term												
Full Simulation	50	-84	-68	-30	-13	-30	-25	6	106	144	55	21
Water Year Types												
Wet	55	53	-20	-58	-16	58	-29	70	30	168	-152	-20
Above Norm	159	-12	-122	-27	-129	89	-143	-526	-64	26	203	20
Below Norm	164	-605	-184	-31	-6	-1	-167	-99	205	60	92	92
Dry	-25	71	-28	-22	-47	-205	54	313	228	276	93	14
Critical	-93	-73	-39	15	154	-110	153	64	145	110	255	43
Dry & Crit	-52	13	-32	-7	34	-167	93	213	195	209	158	25

Feather River Below Thermalito Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,770	2,500	5,948	13,307	16,571	14,177	7,799	10,424	6,425	9,682	8,054	3,934
20%	3,385	2,500	4,185	4,878	10,840	10,127	3,840	5,825	5,051	9,344	7,685	2,371
30%	2,937	2,202	3,228	1,700	7,488	6,450	1,994	3,485	4,755	9,032	7,300	2,031
40%	2,563	1,865	2,094	1,700	2,625	4,677	1,347	2,556	4,420	8,568	5,839	1,535
50%	1,991	1,700	1,700	1,700	1,700	1,700	1,000	1,901	3,989	8,095	4,524	1,377
60%	1,770	1,700	1,700	1,700	1,700	1,700	1,000	1,485	3,580	6,831	3,218	1,214
70%	1,700	1,425	1,700	1,200	1,700	1,700	1,000	1,000	3,318	4,605	2,505	1,061
80%	1,200	1,200	1,200	900	1,200	1,000	1,000	1,000	2,946	3,758	2,043	1,000
90%	1,106	1,065	916	900	900	800	779	1,000	2,179	2,967	1,680	1,000
Long Term												
Full Simulation	2,283	2,032	3,285	4,437	5,363	5,819	2,929	3,848	4,303	6,918	4,754	1,906
Water Year Types												
Wet	2,853	3,014	5,668	10,350	11,208	12,566	6,508	7,535	5,169	6,330	4,666	1,630
Above Norm	3,233	2,231	3,486	2,388	5,288	6,408	1,671	3,197	3,213	8,638	7,316	2,223
Below Norm	2,331	1,685	1,640	1,916	2,805	2,010	1,118	1,514	3,750	8,738	7,338	3,221
Dry	1,428	1,350	2,056	1,394	1,575	1,458	1,190	2,121	4,500	7,110	2,694	1,377
Critical	1,325	1,131	1,682	1,180	1,442	1,597	1,155	1,826	3,868	4,061	2,456	1,449
Dry & Crit	1,387	1,263	1,907	1,309	1,522	1,514	1,176	2,003	4,247	5,890	2,599	1,406

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,682	2,500	5,947	13,307	16,571	14,180	7,799	10,424	6,132	9,706	8,048	3,719
20%	3,394	2,500	4,191	4,878	10,840	10,127	3,840	5,825	5,117	9,364	7,858	2,572
30%	2,868	2,477	3,228	1,700	7,488	6,450	1,993	3,485	4,817	9,123	7,452	1,967
40%	2,406	1,863	2,205	1,700	2,637	4,685	1,304	2,545	4,418	8,573	5,613	1,549
50%	1,899	1,700	1,700	1,700	1,700	2,245	1,000	1,956	3,959	8,152	4,926	1,376
60%	1,770	1,700	1,700	1,700	1,700	1,700	1,000	1,412	3,654	6,636	3,271	1,213
70%	1,700	1,418	1,700	1,200	1,700	1,700	1,000	1,000	3,317	4,446	2,494	1,061
80%	1,200	1,200	1,200	900	1,200	1,000	1,000	1,000	2,944	3,833	2,070	1,000
90%	1,094	1,065	918	900	900	800	778	1,000	2,161	3,268	1,561	1,000
Long Term												
Full Simulation	2,260	2,028	3,286	4,427	5,361	5,814	2,929	3,825	4,285	6,962	4,801	1,903
Water Year Types												
Wet	2,809	3,014	5,676	10,328	11,208	12,532	6,508	7,535	5,159	6,283	4,845	1,601
Above Norm	3,100	2,234	3,476	2,372	5,268	6,363	1,671	3,179	3,216	8,681	7,283	2,191
Below Norm	2,379	1,674	1,660	1,918	2,806	2,011	1,118	1,487	3,651	8,761	7,336	3,362
Dry	1,413	1,353	2,043	1,394	1,575	1,513	1,190	2,051	4,490	7,310	2,652	1,340
Critical	1,359	1,108	1,682	1,175	1,445	1,596	1,150	1,824	3,889	4,090	2,490	1,413
Dry & Crit	1,392	1,255	1,899	1,307	1,523	1,546	1,174	1,960	4,250	6,022	2,587	1,369

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-88	0	-1	0	0	2	0	0	-293	24	-6	-214
20%	9	0	6	0	0	0	0	0	65	20	172	201
30%	-69	275	0	0	0	0	-1	0	62	91	153	-65
40%	-157	-2	110	0	12	8	-42	-11	-1	6	-226	14
50%	-93	0	0	0	0	545	0	55	-31	57	403	0
60%	0	0	0	0	0	0	0	-73	75	-195	53	-1
70%	0	-7	0	0	0	0	0	0	-1	-160	-11	0
80%	0	0	0	0	0	0	0	0	-1	74	27	0
90%	-12	0	1	0	0	0	0	0	-18	302	-119	0
Long Term												
Full Simulation	-23	-4	1	-10	-2	-5	-1	-23	-19	43	47	-3
Water Year Types												
Wet	-44	0	7	-23	0	-34	0	0	-10	-47	179	-28
Above Norm	-133	3	-10	-16	-21	-45	0	-18	3	43	-34	-32
Below Norm	48	-11	19	2	1	1	0	-27	-99	23	-2	141
Dry	-14	3	-13	0	0	55	0	-70	-9	200	-41	-37
Critical	33	-24	0	-5	3	-1	-5	-2	21	29	33	-36
Dry & Crit	5	-8	-8	-2	1	33	-2	-43	3	132	-11	-36

Fremont Weir Spill

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	397	7,126	24,465	38,532	17,733	1,219	0	0	0	0	0
20%	0	33	2,039	9,138	11,130	4,590	0	0	0	0	0	0
30%	0	9	478	3,737	7,656	2,518	0	0	0	0	0	0
40%	0	1	180	1,301	3,879	1,081	0	0	0	0	0	0
50%	0	0	101	664	2,175	287	0	0	0	0	0	0
60%	0	0	26	236	959	135	0	0	0	0	0	0
70%	0	0	10	39	309	77	0	0	0	0	0	0
80%	0	0	1	20	101	14	0	0	0	0	0	0
90%	0	0	0	5	30	0	0	0	0	0	0	0
Long Term												
Full Simulation	18	322	2,635	7,851	10,711	6,209	1,096	101	29	0	0	0
Water Year Types												
Wet	0	437	4,168	21,846	26,140	16,226	3,348	319	93	0	0	0
Above Norm	0	633	1,027	4,719	10,610	6,147	171	0	0	0	0	0
Below Norm	103	237	2,092	797	3,260	467	56	0	0	0	0	0
Dry	0	231	3,631	376	1,224	350	0	0	0	0	0	0
Critical	0	2	62	104	304	55	0	0	0	0	0	0
Dry & Crit	0	140	2,203	267	856	232	0	0	0	0	0	0

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	398	7,199	24,466	33,515	17,730	1,215	0	0	0	0	0
20%	0	32	1,985	9,136	11,123	4,015	0	0	0	0	0	0
30%	0	9	480	3,443	7,654	2,518	0	0	0	0	0	0
40%	0	1	161	1,240	3,881	1,081	0	0	0	0	0	0
50%	0	0	101	679	2,134	280	0	0	0	0	0	0
60%	0	0	25	236	959	136	0	0	0	0	0	0
70%	0	0	12	36	310	78	0	0	0	0	0	0
80%	0	0	1	20	104	14	0	0	0	0	0	0
90%	0	0	0	5	35	0	0	0	0	0	0	0
Long Term												
Full Simulation	15	296	2,544	7,783	10,562	6,192	1,091	101	29	0	0	0
Water Year Types												
Wet	0	436	4,160	21,716	25,821	16,235	3,333	318	93	0	0	0
Above Norm	0	604	1,018	4,598	10,451	6,019	170	0	0	0	0	0
Below Norm	88	132	2,016	796	3,168	468	55	0	0	0	0	0
Dry	0	213	3,293	336	1,182	344	0	0	0	0	0	0
Critical	0	2	62	104	307	55	0	0	0	0	0	0
Dry & Crit	0	129	2,001	244	832	228	0	0	0	0	0	0

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	1	72	1	-5,017	-3	-3	0	0	0	0	0
20%	0	-1	-54	-2	-7	-575	0	0	0	0	0	0
30%	0	0	2	-294	-2	-1	0	0	0	0	0	0
40%	0	0	-20	-61	2	0	0	0	0	0	0	0
50%	0	0	0	15	-40	-6	0	0	0	0	0	0
60%	0	0	-1	0	0	2	0	0	0	0	0	0
70%	0	0	2	-2	1	1	0	0	0	0	0	0
80%	0	0	0	0	3	0	0	0	0	0	0	0
90%	0	0	0	0	4	0	0	0	0	0	0	0
Long Term												
Full Simulation	-2	-26	-91	-68	-149	-17	-5	0	0	0	0	0
Water Year Types												
Wet	0	0	-9	-130	-319	9	-15	0	0	0	0	0
Above Norm	0	-28	-9	-122	-159	-128	-1	0	0	0	0	0
Below Norm	-15	-104	-76	-1	-92	1	0	0	0	0	0	0
Dry	0	-18	-338	-39	-43	-7	0	0	0	0	0	0
Critical	0	0	0	0	3	0	0	0	0	0	0	0
Dry & Crit	0	-11	-203	-24	-24	-4	0	0	0	0	0	0

Yolo Bypass Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	63	735	11,455	33,867	45,187	22,988	6,589	278	68	48	186	128
20%	62	160	5,071	15,968	18,672	8,926	3,336	78	68	48	55	59
30%	58	50	1,564	6,541	10,992	5,285	1,146	73	68	48	55	59
40%	53	27	437	3,219	8,991	2,915	250	70	68	48	55	59
50%	45	10	255	1,225	4,300	1,269	131	68	67	48	55	59
60%	40	8	135	527	1,685	458	111	64	67	48	55	59
70%	29	5	55	273	584	274	87	63	66	48	55	57
80%	16	1	17	75	215	94	78	58	64	48	55	55
90%	5	0	0	24	71	45	56	53	62	48	54	52
Long Term												
Full Simulation	123	503	3,926	10,628	14,375	8,761	2,551	266	120	48	100	73
Water Year Types												
Wet	86	714	5,272	28,110	33,906	21,896	6,719	629	237	48	143	73
Above Norm	37	761	2,062	7,931	14,448	9,175	1,665	194	66	48	95	65
Below Norm	435	489	3,656	1,818	5,170	1,157	547	67	66	48	114	85
Dry	47	355	5,812	830	2,409	1,037	308	77	67	48	62	70
Critical	41	24	358	422	673	347	107	68	64	48	54	75
Dry & Crit	45	223	3,630	667	1,715	761	227	73	66	48	59	72

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	63	731	11,455	33,868	44,952	22,981	6,589	278	68	48	186	128
20%	62	156	4,857	15,966	18,602	8,630	3,336	78	68	48	55	59
30%	58	50	1,436	6,668	10,897	5,285	1,146	73	68	48	55	59
40%	53	28	437	3,062	8,697	2,915	250	70	68	48	55	59
50%	45	10	257	1,223	4,136	1,262	131	68	67	48	55	59
60%	40	8	135	527	1,687	458	111	64	67	48	55	59
70%	29	5	55	273	583	186	87	63	66	48	55	57
80%	16	1	17	74	216	86	78	58	64	48	55	55
90%	5	0	0	37	71	42	56	53	62	48	54	52
Long Term												
Full Simulation	121	470	3,842	10,558	14,220	8,729	2,545	266	120	48	100	74
Water Year Types												
Wet	86	714	5,263	27,971	33,572	21,904	6,703	629	237	48	143	73
Above Norm	37	732	2,053	7,816	14,283	9,036	1,664	194	66	48	95	65
Below Norm	422	342	3,514	1,817	5,067	1,159	547	67	66	48	114	85
Dry	47	339	5,559	789	2,374	970	308	77	67	48	62	70
Critical	41	24	358	427	674	347	107	68	64	48	54	79
Dry & Crit	45	213	3,479	644	1,694	721	227	73	66	48	59	74

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-4	0	1	-236	-8	0	0	0	0	0	0
20%	0	-3	-215	-2	-70	-296	0	0	0	0	0	0
30%	0	0	-128	127	-96	0	0	0	0	0	0	0
40%	0	0	0	-158	-295	0	0	0	0	0	0	0
50%	0	0	2	-2	-164	-6	0	0	0	0	0	0
60%	0	0	0	0	1	0	0	0	0	0	0	0
70%	0	0	0	0	-1	-88	0	0	0	0	0	0
80%	0	0	0	-1	1	-8	0	0	0	0	0	0
90%	0	0	0	14	0	-3	0	0	0	0	0	0
Long Term												
Full Simulation	-2	-33	-84	-70	-156	-32	-5	0	0	0	0	1
Water Year Types												
Wet	0	0	-9	-139	-334	9	-16	0	0	0	0	0
Above Norm	0	-29	-9	-116	-166	-139	-1	0	0	0	0	0
Below Norm	-13	-147	-141	-1	-103	1	0	0	0	0	0	0
Dry	0	-16	-253	-41	-36	-67	0	0	0	0	0	0
Critical	0	0	0	4	1	0	0	0	0	0	0	4
Dry & Crit	0	-10	-152	-23	-21	-40	0	0	0	0	0	1

Sacramento River at Freepoint Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,217	23,865	49,521	63,196	66,407	63,147	52,016	42,002	26,410	24,097	18,090	16,529
20%	13,218	15,209	34,519	54,007	59,776	51,360	41,524	29,794	19,660	22,993	17,552	15,130
30%	12,643	14,051	22,801	41,149	51,019	42,300	25,921	18,743	16,027	22,052	17,220	14,458
40%	12,206	13,595	19,108	27,505	45,783	32,542	23,370	14,959	15,466	19,544	16,661	13,788
50%	11,619	12,772	15,632	23,939	32,432	24,893	18,464	13,439	15,184	18,808	15,833	12,872
60%	10,155	11,170	15,188	18,559	25,495	21,941	14,457	12,511	14,598	17,460	15,032	10,899
70%	8,935	10,140	14,640	14,653	20,731	19,092	12,918	11,624	14,100	16,360	11,722	9,950
80%	8,548	9,075	12,620	13,007	17,254	15,408	11,822	10,798	13,216	14,058	10,423	9,363
90%	7,444	7,476	10,017	11,985	14,658	11,941	10,815	9,530	11,734	10,235	9,579	7,570
Long Term												
Full Simulation	11,422	14,405	23,143	30,867	37,658	32,761	24,908	19,514	17,552	18,274	14,609	12,548
Water Year Types												
Wet	13,789	17,577	26,507	50,017	56,996	50,042	40,159	31,656	23,795	20,065	17,337	15,760
Above Norm	12,653	16,589	23,808	37,542	44,917	43,831	27,568	21,281	17,225	22,137	17,511	13,820
Below Norm	12,750	15,512	26,703	22,494	32,499	22,783	19,573	14,716	15,730	20,363	15,838	13,195
Dry	8,843	11,784	21,962	16,451	22,764	20,605	14,494	11,888	14,553	16,627	10,980	10,020
Critical	7,384	7,988	12,807	14,094	16,858	14,123	11,050	8,473	10,975	10,561	9,805	7,355
Dry & Crit	8,259	10,266	18,300	15,508	20,401	18,012	13,117	10,522	13,122	14,201	10,510	8,954

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	14,217	22,954	48,866	63,081	66,404	63,145	52,209	42,003	24,897	24,162	18,090	16,509
20%	13,340	14,831	34,528	54,011	59,772	51,104	41,525	29,763	19,660	23,355	17,525	15,109
30%	12,738	14,054	22,781	40,246	49,361	42,277	25,667	18,892	16,027	21,997	17,192	14,458
40%	12,435	13,656	19,110	27,337	44,514	32,551	23,329	14,955	15,415	20,256	16,661	13,969
50%	11,639	12,970	15,476	23,965	30,587	25,128	18,467	13,439	15,152	19,055	15,792	13,069
60%	9,784	11,509	15,188	18,561	25,496	21,948	14,452	12,511	14,604	18,268	15,129	10,957
70%	8,992	9,932	14,588	15,452	20,736	19,108	12,918	11,788	13,979	16,193	12,649	9,951
80%	8,514	8,996	12,624	13,101	17,260	15,372	11,748	10,817	13,168	14,158	10,296	9,431
90%	7,394	7,476	10,039	11,987	14,875	11,964	10,836	9,530	12,047	10,250	9,692	7,573
Long Term												
Full Simulation	11,431	14,288	23,075	30,866	37,523	32,733	24,848	19,466	17,529	18,453	14,672	12,556
Water Year Types												
Wet	13,774	17,608	26,458	49,983	56,982	50,094	40,086	31,723	23,773	20,112	17,399	15,685
Above Norm	12,672	16,508	23,714	37,475	44,242	43,778	27,423	20,726	17,030	22,285	17,497	13,823
Below Norm	12,836	14,792	26,488	22,719	32,301	22,789	19,423	14,588	15,717	20,700	15,781	13,428
Dry	8,763	11,889	21,980	16,365	22,671	20,510	14,459	12,005	14,529	16,935	11,051	9,974
Critical	7,476	7,883	12,768	14,096	17,012	14,012	11,168	8,531	11,112	10,681	10,079	7,365
Dry & Crit	8,248	10,287	18,296	15,457	20,407	17,911	13,142	10,616	13,162	14,433	10,662	8,930

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-1	-911	-655	-115	-3	-2	193	1	-1,513	65	0	-20
20%	121	-379	9	4	-4	-256	1	-30	0	362	-27	-21
30%	95	3	-21	-902	-1,658	-24	-254	150	0	-54	-28	0
40%	229	61	2	-168	-1,269	9	-41	-3	-51	712	0	182
50%	20	198	-156	26	-1,845	235	3	0	-32	247	-41	197
60%	-371	339	0	2	1	6	-5	0	6	808	97	58
70%	57	-208	-51	800	5	15	0	164	-121	-167	926	1
80%	-34	-78	5	95	6	-36	-75	18	-48	100	-127	68
90%	-50	0	22	2	217	23	21	0	312	15	113	3
Long Term												
Full Simulation	9	-117	-68	-1	-135	-27	-60	-48	-23	179	63	8
Water Year Types												
Wet	-15	32	-50	-34	-14	52	-72	67	-23	47	61	-76
Above Norm	19	-81	-94	-68	-675	-52	-145	-555	-195	148	-14	3
Below Norm	86	-720	-215	225	-198	6	-149	-128	-14	337	-57	234
Dry	-80	105	18	-86	-93	-95	-35	118	-24	308	71	-46
Critical	92	-105	-39	2	154	-111	118	59	137	120	274	10
Dry & Crit	-11	21	-5	-51	6	-102	26	94	40	233	152	-23

Sacramento River at Rio Vista Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,918	19,870	58,529	88,189	106,342	76,061	54,351	35,314	20,902	14,032	10,529	9,590
20%	9,113	11,047	34,890	57,858	68,315	52,857	37,525	24,197	11,607	13,290	10,167	8,727
30%	7,856	9,369	19,473	42,299	57,233	41,164	21,603	14,534	9,060	12,629	9,905	8,184
40%	7,150	8,768	15,827	27,282	46,276	28,370	19,131	11,099	8,638	11,042	9,447	7,743
50%	6,586	8,185	11,900	20,748	30,356	21,355	14,690	9,829	8,423	10,458	8,886	7,133
60%	5,526	7,317	11,087	15,463	23,272	18,992	11,118	9,053	8,119	9,571	8,353	6,021
70%	4,903	6,342	10,086	12,285	17,652	15,453	9,676	8,362	7,709	8,903	6,093	5,181
80%	4,457	5,506	8,903	10,305	13,955	12,002	8,766	7,488	7,161	7,201	5,183	4,791
90%	3,675	4,082	6,573	9,396	11,790	9,006	7,931	6,431	6,147	4,561	4,648	3,548
Long Term												
Full Simulation	7,116	10,624	22,405	36,847	46,344	36,037	22,657	15,381	10,903	10,098	8,088	6,942
Water Year Types												
Wet	9,428	13,519	26,493	71,410	82,852	64,336	40,185	26,310	16,548	11,306	9,966	9,098
Above Norm	7,824	12,542	21,190	40,261	52,989	46,061	24,052	16,870	10,722	12,710	10,064	7,773
Below Norm	8,231	11,668	25,319	20,517	32,671	19,695	15,965	10,965	8,861	11,505	8,938	7,388
Dry	4,700	8,324	23,403	14,164	21,224	17,680	11,337	8,564	8,016	8,998	5,576	5,246
Critical	3,718	4,662	9,870	11,626	14,229	11,300	8,075	5,586	5,568	4,876	4,818	3,465
Dry & Crit	4,307	6,860	17,989	13,149	18,426	15,128	10,032	7,373	7,037	7,350	5,273	4,533

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,924	19,863	57,628	88,268	106,354	76,051	54,329	35,307	15,452	14,079	10,529	9,576
20%	9,102	11,032	34,083	57,882	68,309	52,735	37,517	24,156	11,607	13,572	10,169	8,717
30%	7,951	9,460	19,439	41,460	56,152	40,575	21,572	14,663	9,062	12,592	9,853	8,184
40%	7,394	8,827	15,822	27,280	45,322	28,375	19,081	11,240	8,603	11,451	9,458	7,843
50%	6,740	8,258	11,960	20,775	30,096	21,357	14,693	9,857	8,421	10,633	8,838	7,374
60%	5,416	7,319	11,090	15,464	23,274	18,206	11,114	9,055	8,135	10,176	8,402	5,807
70%	4,955	6,404	10,086	12,551	17,625	15,510	9,676	8,422	7,682	8,799	6,685	5,150
80%	4,420	5,499	8,902	10,371	14,257	11,971	8,751	7,520	6,933	7,308	5,110	4,810
90%	3,676	4,166	6,731	9,406	11,792	9,026	7,949	6,431	6,248	4,571	4,692	3,549
Long Term												
Full Simulation	7,142	10,494	22,256	36,778	46,073	35,980	22,600	15,339	10,834	10,220	8,132	6,948
Water Year Types												
Wet	9,433	13,536	26,441	71,242	82,505	64,390	40,105	26,368	16,531	11,338	10,007	9,047
Above Norm	7,911	12,459	21,098	40,086	52,237	45,877	23,925	16,388	10,228	12,810	10,055	7,775
Below Norm	8,359	10,874	24,980	20,711	32,402	19,701	15,836	10,853	8,852	11,733	8,899	7,546
Dry	4,656	8,435	23,150	14,048	21,109	17,531	11,306	8,666	7,999	9,209	5,628	5,215
Critical	3,721	4,585	9,829	11,636	14,368	11,197	8,177	5,637	5,665	4,957	5,006	3,475
Dry & Crit	4,282	6,895	17,822	13,083	18,412	14,997	10,054	7,454	7,065	7,508	5,379	4,519

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	6	-7	-902	79	12	-10	-22	-8	-5,450	47	0	-14
20%	-12	-15	-807	24	-6	-123	-8	-41	0	281	2	-11
30%	95	90	-34	-839	-1,081	-588	-31	130	2	-37	-52	0
40%	244	59	-5	-2	-954	5	-51	141	-35	409	11	100
50%	154	73	60	26	-260	1	3	28	-2	175	-48	241
60%	-110	2	4	1	2	-785	-4	2	16	604	49	-214
70%	53	62	0	266	-27	57	0	59	-27	-103	591	-31
80%	-36	-7	-1	66	302	-31	-15	32	-228	108	-72	19
90%	1	84	158	9	3	20	18	0	102	10	44	2
Long Term												
Full Simulation	27	-129	-149	-70	-271	-57	-58	-42	-69	122	44	6
Water Year Types												
Wet	5	17	-52	-168	-346	54	-79	58	-16	32	41	-51
Above Norm	87	-83	-92	-174	-752	-185	-127	-482	-494	100	-9	2
Below Norm	127	-794	-339	194	-269	7	-130	-112	-10	228	-38	158
Dry	-44	111	-252	-116	-116	-150	-31	102	-17	211	52	-31
Critical	4	-77	-41	10	138	-103	102	51	97	81	188	10
Dry & Crit	-25	36	-168	-66	-14	-131	22	82	28	159	106	-15

Delta Cross Channel Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,762	4,694	7,645	9,472	9,900	9,424	7,949	6,628	7,019	8,736	6,826	6,336
20%	4,431	4,542	5,660	8,228	8,988	7,876	6,570	5,014	5,809	8,376	6,648	5,886
30%	4,233	4,407	4,288	6,534	7,853	6,668	4,504	3,548	5,610	8,074	6,541	5,670
40%	4,063	4,097	4,095	4,733	7,145	5,376	4,165	3,042	5,522	7,272	6,362	5,454
50%	3,877	3,791	3,865	4,261	5,369	4,373	3,520	2,839	5,436	7,032	6,096	5,161
60%	3,770	3,620	3,720	3,544	4,454	3,983	2,988	2,717	5,296	6,595	5,841	4,527
70%	3,592	3,427	3,541	3,037	3,828	3,602	2,783	2,604	5,099	6,248	4,775	4,219
80%	3,387	3,209	3,211	2,809	3,366	3,117	2,640	2,492	4,899	5,499	4,355	4,033
90%	3,276	2,951	3,079	2,673	3,022	2,656	2,505	2,324	4,464	4,254	4,085	3,454
Long Term												
Full Simulation	3,953	3,959	4,562	5,177	6,069	5,410	4,368	3,648	5,509	6,857	5,703	5,057
Water Year Types												
Wet	3,935	4,451	5,103	7,715	8,628	7,695	6,386	5,253	6,262	7,435	6,580	6,090
Above Norm	4,370	4,456	4,660	6,065	7,034	6,872	4,720	3,883	5,292	8,102	6,637	5,465
Below Norm	4,518	4,009	4,967	4,068	5,389	4,092	3,663	3,013	5,655	7,530	6,097	5,265
Dry	3,735	3,520	4,324	3,266	4,097	3,805	2,991	2,640	5,302	6,327	4,535	4,244
Critical	3,240	2,993	3,175	2,951	3,311	2,945	2,534	2,187	4,236	4,365	4,158	3,386
Dry & Crit	3,537	3,309	3,864	3,140	3,782	3,461	2,808	2,458	4,876	5,542	4,384	3,901

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,737	4,679	7,573	9,457	9,898	9,424	7,974	6,628	7,130	8,753	6,826	6,330
20%	4,328	4,542	5,661	8,228	8,988	7,843	6,568	5,006	5,966	8,498	6,644	5,879
30%	4,180	4,365	4,288	6,413	7,644	6,664	4,468	3,568	5,623	8,056	6,532	5,670
40%	4,022	4,097	4,092	4,707	6,981	5,377	4,161	3,044	5,523	7,497	6,363	5,512
50%	3,912	3,863	3,900	4,264	5,149	4,404	3,520	2,839	5,464	7,108	6,090	5,237
60%	3,773	3,527	3,720	3,544	4,455	3,984	2,987	2,730	5,317	6,859	5,874	4,543
70%	3,644	3,388	3,541	3,126	3,824	3,604	2,783	2,622	5,092	6,195	5,069	4,221
80%	3,447	3,209	3,215	2,819	3,370	3,112	2,630	2,498	4,895	5,532	4,313	4,054
90%	3,281	2,915	3,080	2,673	3,048	2,660	2,508	2,324	4,547	4,258	4,118	3,455
Long Term												
Full Simulation	3,933	3,937	4,558	5,177	6,051	5,407	4,360	3,641	5,555	6,914	5,723	5,059
Water Year Types												
Wet	3,915	4,465	5,096	7,711	8,626	7,702	6,376	5,262	6,256	7,450	6,600	6,065
Above Norm	4,302	4,430	4,648	6,056	6,945	6,865	4,701	3,809	5,591	8,150	6,633	5,466
Below Norm	4,464	3,936	4,944	4,098	5,363	4,093	3,643	2,996	5,651	7,638	6,079	5,341
Dry	3,702	3,493	4,341	3,255	4,085	3,792	2,987	2,655	5,295	6,426	4,558	4,229
Critical	3,329	2,965	3,177	2,951	3,331	2,931	2,549	2,194	4,276	4,404	4,246	3,390
Dry & Crit	3,553	3,282	3,876	3,133	3,783	3,448	2,812	2,471	4,888	5,617	4,433	3,894

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-25	-14	-72	-15	-2	0	25	0	111	18	0	-6
20%	-104	0	1	1	-1	-34	-2	-8	157	122	-4	-7
30%	-53	-42	0	-121	-209	-3	-36	20	14	-18	-9	0
40%	-41	1	-3	-26	-164	1	-4	2	0	225	0	57
50%	35	72	35	3	-220	31	0	0	27	76	-6	76
60%	2	-93	0	0	1	1	-1	13	21	265	34	17
70%	52	-39	0	90	-4	3	0	18	-7	-54	295	3
80%	60	0	4	10	3	-5	-10	6	-4	33	-41	21
90%	6	-35	1	0	27	3	3	0	83	5	33	1
Long Term												
Full Simulation	-20	-22	-4	0	-18	-4	-8	-6	45	58	20	2
Water Year Types												
Wet	-20	14	-6	-4	-2	7	-10	9	-6	15	20	-24
Above Norm	-68	-26	-12	-9	-89	-7	-19	-73	299	48	-4	1
Below Norm	-54	-73	-23	30	-26	1	-20	-17	-4	108	-18	75
Dry	-33	-27	18	-11	-12	-13	-5	16	-7	99	23	-15
Critical	88	-28	2	0	20	-15	16	8	41	39	88	3
Dry & Crit	16	-27	11	-7	1	-13	3	12	12	75	49	-8

San Joaquin River at Vernalis Flow

ROC Proposed Action (ROC PAv23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,559	3,001	3,993	9,545	13,887	14,790	13,650	12,661	12,203	7,296	3,351	3,337
20%	3,182	2,784	2,891	5,125	10,064	9,751	10,592	7,978	8,138	3,726	2,793	2,791
30%	3,014	2,545	2,393	3,804	6,982	8,363	8,840	5,640	3,323	2,571	2,429	2,541
40%	2,881	2,407	2,208	2,708	4,298	6,598	7,966	4,793	2,517	1,771	1,887	2,319
50%	2,605	2,217	2,105	2,382	3,148	4,317	6,607	4,108	2,040	1,524	1,501	1,935
60%	2,459	2,162	2,046	2,288	2,649	3,620	5,282	3,370	1,775	1,355	1,410	1,844
70%	2,249	2,070	1,936	2,071	2,363	2,826	3,574	2,383	1,459	1,180	1,329	1,762
80%	2,101	1,950	1,837	1,883	2,132	2,409	2,869	2,148	1,338	1,072	1,235	1,665
90%	1,825	1,759	1,669	1,698	1,897	2,225	1,755	1,469	981	882	1,062	1,464
Long Term												
Full Simulation	2,713	2,604	3,225	4,822	6,313	7,160	7,480	5,691	4,519	3,203	2,039	2,327
Water Year Types												
Wet	3,450	3,608	4,520	9,333	11,508	13,279	12,738	10,298	9,342	6,723	3,187	3,282
Above Norm	2,821	2,406	2,631	4,218	6,250	7,485	8,164	5,670	4,671	2,612	2,002	2,332
Below Norm	2,701	2,330	3,759	3,034	5,379	5,128	6,889	4,671	2,391	1,816	1,829	2,108
Dry	2,212	2,083	2,336	2,146	2,467	3,063	3,715	2,590	1,475	1,176	1,292	1,764
Critical	1,772	1,728	1,723	1,748	1,976	2,095	1,739	1,568	969	827	955	1,355
Dry & Crit	2,036	1,941	2,091	1,987	2,271	2,676	2,925	2,181	1,272	1,036	1,157	1,600

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	3,559	3,001	3,993	9,545	13,884	14,790	13,650	12,661	12,203	7,296	3,351	3,341
20%	3,182	2,784	2,891	5,125	10,053	9,751	10,595	7,978	8,139	3,727	2,801	2,791
30%	3,014	2,545	2,393	3,804	6,982	8,363	8,840	5,639	3,330	2,571	2,429	2,543
40%	2,880	2,408	2,208	2,708	4,298	6,598	7,966	4,792	2,517	1,771	1,887	2,319
50%	2,606	2,217	2,105	2,382	3,148	4,317	6,607	4,108	2,040	1,524	1,501	1,938
60%	2,460	2,162	2,046	2,288	2,649	3,620	5,282	3,374	1,775	1,355	1,411	1,845
70%	2,250	2,070	1,936	2,071	2,364	2,826	3,574	2,383	1,459	1,180	1,329	1,761
80%	2,101	1,950	1,837	1,883	2,132	2,409	2,869	2,148	1,340	1,076	1,237	1,664
90%	1,825	1,759	1,669	1,698	1,897	2,225	1,754	1,468	981	884	1,061	1,466
Long Term												
Full Simulation	2,713	2,604	3,225	4,822	6,312	7,160	7,480	5,691	4,520	3,204	2,040	2,328
Water Year Types												
Wet	3,450	3,608	4,520	9,333	11,508	13,279	12,738	10,298	9,342	6,724	3,187	3,282
Above Norm	2,822	2,406	2,631	4,218	6,250	7,485	8,164	5,671	4,671	2,613	2,003	2,332
Below Norm	2,701	2,330	3,758	3,034	5,377	5,128	6,889	4,672	2,392	1,818	1,830	2,109
Dry	2,212	2,083	2,336	2,146	2,467	3,063	3,715	2,591	1,476	1,176	1,292	1,764
Critical	1,772	1,728	1,723	1,748	1,976	2,095	1,739	1,568	969	828	956	1,355
Dry & Crit	2,036	1,941	2,091	1,987	2,271	2,676	2,925	2,182	1,273	1,037	1,158	1,601

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAv23)

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

Delta Outflow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,625	17,167	66,442	99,374	127,577	90,817	67,182	45,020	30,419	11,167	6,174	12,333
20%	8,231	7,271	36,337	65,922	79,872	65,829	51,013	28,121	14,277	9,903	6,174	11,123
30%	8,000	5,490	19,206	48,060	66,175	47,617	27,528	18,427	10,525	8,519	6,174	10,691
40%	7,561	5,101	12,723	29,038	53,427	35,553	23,580	13,775	9,044	8,000	4,844	10,198
50%	5,180	5,000	9,748	23,479	36,375	26,898	17,705	11,570	8,367	8,000	4,232	4,179
60%	4,617	5,000	7,368	15,771	24,822	22,277	13,798	9,752	7,600	7,000	4,000	3,152
70%	4,500	5,000	5,218	11,826	18,291	17,597	11,630	8,273	7,100	5,000	4,000	3,000
80%	4,500	5,000	5,000	9,358	13,814	13,048	9,673	7,092	7,100	5,000	3,719	3,000
90%	4,500	4,547	5,000	7,848	10,565	9,613	8,592	6,020	4,844	4,000	3,500	3,000
Long Term												
Full Simulation	6,615	8,956	22,614	42,421	53,763	43,981	28,811	18,987	12,859	8,142	4,965	7,100
Water Year Types												
Wet	8,565	11,677	26,891	85,686	98,600	80,796	52,895	35,511	22,763	11,627	6,631	11,880
Above Norm	7,777	8,743	19,965	46,882	62,198	55,939	29,866	19,980	12,027	9,814	5,535	10,855
Below Norm	6,228	10,399	26,510	22,178	38,048	23,943	20,242	12,408	9,142	7,630	4,155	3,719
Dry	4,666	7,101	24,366	13,692	22,378	20,072	13,316	8,537	6,989	5,088	3,819	3,047
Critical	4,605	4,372	8,824	10,927	13,741	11,495	8,816	5,540	5,375	4,094	3,450	3,015
Dry & Crit	4,641	6,010	18,149	12,586	18,863	16,641	11,516	7,338	6,343	4,690	3,672	3,034

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	8,625	15,947	65,218	99,374	127,083	90,806	67,178	45,005	30,404	11,560	6,174	12,334
20%	8,156	6,402	36,692	65,905	79,866	65,366	49,524	27,716	14,278	9,903	6,174	11,126
30%	8,000	5,592	19,165	46,987	65,142	47,224	27,341	18,407	10,525	8,517	6,174	10,749
40%	7,500	5,119	12,732	29,036	53,430	35,562	23,588	13,732	9,049	8,000	4,844	10,165
50%	5,706	5,000	9,977	23,509	36,387	27,422	17,619	11,429	8,200	8,000	4,241	4,179
60%	4,722	5,000	6,704	15,805	24,613	21,981	13,840	9,952	7,600	7,000	4,000	3,258
70%	4,500	5,000	5,218	11,898	18,261	17,596	11,502	8,718	7,100	5,000	3,955	3,000
80%	4,500	5,000	5,025	9,070	13,820	13,057	9,673	7,100	7,100	5,000	3,579	3,000
90%	4,500	4,646	5,000	7,850	10,650	9,613	8,598	6,378	4,844	4,000	3,410	3,000
Long Term												
Full Simulation	6,612	8,805	22,405	42,315	53,430	43,928	28,753	18,948	12,810	8,160	4,930	7,116
Water Year Types												
Wet	8,551	11,703	26,694	85,513	98,199	80,877	52,859	35,576	22,740	11,630	6,626	11,889
Above Norm	7,738	8,705	19,855	46,569	61,388	55,747	29,735	19,501	11,818	9,892	5,483	10,868
Below Norm	6,244	9,365	26,211	22,402	37,589	23,917	20,088	12,279	9,098	7,635	4,159	3,779
Dry	4,691	7,180	24,060	13,536	22,149	19,913	13,288	8,655	6,969	5,078	3,734	3,046
Critical	4,599	4,411	8,743	10,870	13,876	11,425	8,847	5,586	5,380	4,142	3,393	3,021
Dry & Crit	4,654	6,072	17,933	12,469	18,840	16,518	11,512	7,427	6,333	4,703	3,598	3,036

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	-1,219	-1,225	1	-493	-11	-4	-15	-15	393	0	1
20%	-75	-869	355	-17	-6	-463	-1,489	-405	1	0	0	3
30%	0	102	-41	-1,074	-1,032	-393	-186	-20	0	-2	0	58
40%	-61	18	9	-2	3	9	8	-44	5	0	0	-34
50%	526	0	229	30	12	524	-86	-141	-167	0	9	0
60%	105	0	-664	35	-209	-295	42	199	0	0	0	106
70%	0	0	0	72	-30	-1	-129	445	0	0	-45	0
80%	0	0	25	-288	6	9	0	8	0	0	-140	0
90%	0	99	0	2	86	0	6	359	0	0	-90	0
Long Term												
Full Simulation	-3	-151	-209	-105	-332	-52	-58	-39	-49	18	-35	16
Water Year Types												
Wet	-14	26	-197	-173	-400	81	-36	65	-22	2	-5	9
Above Norm	-39	-38	-110	-314	-810	-191	-131	-480	-209	79	-52	13
Below Norm	16	-1,034	-300	224	-460	-26	-154	-129	-44	5	5	60
Dry	26	78	-305	-157	-128	-159	-28	118	-20	-10	-85	-1
Critical	-6	39	-81	-57	135	-70	31	46	5	48	-58	7
Dry & Crit	13	63	-216	-117	-23	-124	-5	89	-10	13	-74	2

Old and Middle River Flow

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,801	-3,170	-4,292	-3,645	-3,153	-1,822	-908	-1,568	-2,409	-2,964	-3,915	-2,324
20%	-3,317	-3,934	-5,087	-3,645	-4,464	-3,258	-1,999	-2,054	-4,023	-5,219	-5,148	-2,866
30%	-3,848	-4,954	-5,290	-4,516	-4,464	-3,258	-2,132	-2,718	-5,000	-7,611	-6,217	-3,004
40%	-4,105	-5,830	-5,290	-4,516	-4,464	-3,258	-2,322	-2,971	-5,000	-8,355	-7,989	-3,438
50%	-4,343	-6,994	-5,290	-4,516	-4,464	-3,258	-2,624	-3,236	-5,000	-9,239	-9,794	-4,898
60%	-4,921	-8,827	-6,163	-5,000	-4,483	-3,258	-3,197	-3,442	-5,000	-9,699	-10,181	-5,524
70%	-5,412	-9,135	-7,929	-5,226	-5,000	-3,258	-3,500	-3,500	-5,000	-10,098	-10,413	-6,074
80%	-6,540	-9,201	-9,509	-5,226	-5,000	-3,258	-3,500	-3,500	-5,000	-10,636	-10,618	-6,996
90%	-7,509	-9,394	-9,695	-5,226	-5,000	-3,708	-3,500	-3,500	-5,000	-11,080	-10,966	-9,301
Long Term												
Full Simulation	-4,794	-6,720	-6,334	-3,958	-3,978	-2,498	-2,264	-2,672	-4,451	-8,119	-8,263	-5,012
Water Year Types												
Wet	-5,343	-8,286	-7,307	-2,380	-2,675	-968	-1,624	-2,306	-4,492	-8,556	-10,081	-4,252
Above Norm	-4,705	-8,954	-7,610	-4,212	-3,925	-2,731	-3,216	-3,427	-4,937	-9,645	-10,277	-2,588
Below Norm	-6,841	-6,443	-6,295	-4,707	-4,652	-3,251	-3,032	-3,300	-4,806	-9,653	-9,960	-8,585
Dry	-4,013	-5,303	-5,116	-5,087	-4,847	-3,294	-2,345	-2,842	-4,795	-8,315	-5,391	-6,003
Critical	-2,476	-3,542	-4,823	-4,553	-4,768	-3,505	-1,685	-1,722	-2,943	-3,564	-4,636	-3,427
Dry & Crit	-3,398	-4,599	-4,999	-4,873	-4,816	-3,379	-2,081	-2,394	-4,054	-6,414	-5,089	-4,973

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-2,923	-3,165	-4,043	-3,645	-3,330	-1,468	-1,603	-1,568	-2,694	-2,978	-4,485	-2,324
20%	-3,310	-4,200	-5,216	-3,645	-4,464	-3,258	-1,999	-2,055	-4,400	-5,192	-5,026	-2,849
30%	-3,876	-4,842	-5,290	-4,516	-4,464	-3,258	-2,132	-2,667	-5,000	-7,610	-6,872	-2,996
40%	-4,108	-5,713	-5,290	-4,516	-4,464	-3,258	-2,291	-2,971	-5,000	-8,614	-8,523	-3,424
50%	-4,472	-7,131	-5,320	-4,516	-4,483	-3,258	-2,588	-3,155	-5,000	-9,570	-9,750	-4,904
60%	-4,910	-8,833	-6,161	-5,000	-4,483	-3,258	-3,187	-3,442	-5,000	-9,833	-10,197	-5,532
70%	-5,337	-9,154	-8,535	-5,226	-5,000	-3,258	-3,500	-3,500	-5,000	-10,271	-10,425	-6,074
80%	-6,533	-9,248	-9,562	-5,226	-5,000	-3,258	-3,500	-3,500	-5,000	-10,636	-10,664	-6,990
90%	-7,458	-9,394	-9,695	-5,226	-5,250	-3,500	-3,500	-3,500	-5,000	-11,080	-10,940	-9,520
Long Term												
Full Simulation	-4,803	-6,720	-6,385	-3,990	-4,019	-2,490	-2,258	-2,664	-4,475	-8,242	-8,338	-4,998
Water Year Types												
Wet	-5,342	-8,291	-7,434	-2,380	-2,724	-949	-1,574	-2,307	-4,492	-8,598	-10,142	-4,174
Above Norm	-4,758	-8,888	-7,615	-4,331	-3,894	-2,731	-3,202	-3,358	-4,950	-9,709	-10,313	-2,579
Below Norm	-6,894	-6,595	-6,239	-4,707	-4,802	-3,282	-3,036	-3,300	-4,835	-9,934	-9,872	-8,729
Dry	-3,920	-5,310	-5,181	-5,113	-4,847	-3,293	-2,339	-2,842	-4,793	-8,510	-5,493	-5,942
Critical	-2,568	-3,411	-4,862	-4,615	-4,791	-3,462	-1,765	-1,734	-3,066	-3,630	-4,933	-3,433
Dry & Crit	-3,379	-4,550	-5,053	-4,914	-4,825	-3,360	-2,109	-2,399	-4,102	-6,558	-5,269	-4,938

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-122	5	249	0	-176	354	-695	0	-284	-14	-569	0
20%	7	-266	-129	0	0	0	0	0	-377	27	122	17
30%	-28	112	0	0	0	0	0	51	0	1	-654	8
40%	-3	117	0	0	0	0	31	0	0	-259	-534	14
50%	-129	-137	-30	0	-18	0	36	81	0	-330	44	-6
60%	10	-6	1	0	0	0	9	0	0	-133	-15	-9
70%	75	-19	-607	0	0	0	0	0	0	-172	-11	0
80%	7	-46	-53	0	0	0	0	0	0	0	-46	6
90%	51	0	0	0	-250	208	0	0	0	0	26	-220
Long Term												
Full Simulation	-10	0	-51	-32	-40	7	6	8	-24	-123	-75	14
Water Year Types												
Wet	1	-5	-126	0	-49	19	49	-1	0	-42	-61	78
Above Norm	-53	66	-6	-119	30	0	14	69	-13	-64	-36	9
Below Norm	-53	-152	56	0	-150	-32	-5	-1	-29	-281	88	-145
Dry	93	-6	-65	-27	0	2	6	-1	3	-195	-102	61
Critical	-92	131	-39	-62	-22	43	-80	-12	-122	-66	-297	-6
Dry & Crit	19	49	-55	-41	-9	18	-28	-5	-47	-144	-180	34

Jones Export

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,600	4,600	4,600	4,600	4,600	4,600	4,578	4,132	4,600	4,600	4,600	4,600
20%	4,600	4,600	4,600	4,441	4,600	4,600	4,104	3,913	4,600	4,600	4,600	4,600
30%	4,387	4,600	4,600	4,282	4,600	3,850	3,701	3,611	3,627	4,600	4,600	4,503
40%	3,663	4,600	4,459	4,198	4,376	3,492	3,406	3,388	3,434	4,277	4,600	4,199
50%	3,236	4,556	4,290	4,065	4,041	3,303	2,798	3,206	3,293	3,689	4,268	3,687
60%	3,041	3,464	4,182	3,945	3,919	3,058	2,487	2,817	3,193	3,270	3,878	3,328
70%	2,930	2,872	3,916	3,527	3,800	2,868	2,105	2,472	3,138	2,723	3,746	3,019
80%	2,753	2,487	3,362	3,234	3,640	2,643	1,665	1,883	2,800	1,876	3,471	2,624
90%	2,394	2,235	2,500	2,969	2,805	1,895	800	1,629	1,625	1,266	2,775	1,665
Long Term												
Full Simulation	3,432	3,646	3,914	3,861	3,935	3,315	2,836	3,000	3,278	3,364	3,948	3,513
Water Year Types												
Wet	4,152	4,519	4,298	3,946	3,945	3,578	3,771	3,756	4,136	4,384	4,560	3,709
Above Norm	3,200	4,484	4,452	3,926	4,060	3,723	3,568	3,539	3,713	3,810	4,256	2,163
Below Norm	3,774	3,272	4,150	3,863	3,965	3,148	2,848	3,170	3,211	3,245	3,665	4,483
Dry	3,062	2,861	3,471	3,965	3,988	3,076	2,158	2,378	2,953	3,045	3,333	4,007
Critical	2,259	2,529	2,936	3,451	3,672	2,891	1,079	1,557	1,552	1,327	3,564	2,569
Dry & Crit	2,741	2,728	3,257	3,759	3,862	3,002	1,726	2,049	2,392	2,358	3,426	3,432

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	4,600	4,600	4,600	4,600	4,600	4,600	4,599	4,013	4,600	4,600	4,600	4,600
20%	4,600	4,600	4,600	4,600	4,600	4,497	4,007	3,933	4,600	4,600	4,600	4,600
30%	4,387	4,600	4,600	4,310	4,600	3,766	3,607	3,637	3,627	4,600	4,600	4,535
40%	3,665	4,600	4,527	4,245	4,385	3,458	3,406	3,427	3,477	4,377	4,600	4,179
50%	3,283	4,540	4,305	4,096	4,067	3,287	2,805	3,215	3,317	3,817	4,398	3,745
60%	3,117	3,467	4,195	3,966	3,939	3,073	2,517	2,886	3,232	3,370	4,061	3,452
70%	3,016	3,243	3,960	3,674	3,811	2,873	2,122	2,645	3,149	3,047	3,832	3,044
80%	2,832	2,545	3,520	3,234	3,641	2,744	1,795	1,945	3,014	2,517	3,510	2,775
90%	2,348	2,241	2,475	2,974	2,805	1,987	800	1,781	1,838	1,392	3,152	1,769
Long Term												
Full Simulation	3,463	3,705	3,948	3,905	4,004	3,311	2,852	3,058	3,318	3,485	4,028	3,526
Water Year Types												
Wet	4,195	4,520	4,367	3,960	3,997	3,565	3,790	3,818	4,136	4,506	4,562	3,684
Above Norm	3,396	4,483	4,456	4,040	4,127	3,659	3,499	3,533	3,714	3,835	4,330	2,196
Below Norm	3,742	3,635	4,087	3,939	4,179	3,263	2,835	3,174	3,232	3,544	3,605	4,502
Dry	2,987	2,890	3,566	3,965	4,005	3,073	2,201	2,550	3,031	3,119	3,522	4,032
Critical	2,327	2,464	2,943	3,520	3,692	2,827	1,166	1,565	1,680	1,402	3,824	2,617
Dry & Crit	2,723	2,720	3,317	3,787	3,880	2,974	1,787	2,156	2,491	2,432	3,643	3,466

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	21	-119	0	0	0	0
20%	0	0	0	159	0	-103	-98	20	0	0	0	0
30%	0	0	0	28	0	-84	-94	26	0	0	0	32
40%	2	0	68	48	9	-34	0	39	42	100	0	-20
50%	46	-15	14	31	26	-16	7	9	24	128	130	58
60%	77	3	13	21	20	15	30	69	40	101	183	125
70%	86	372	43	147	12	6	17	173	11	324	86	25
80%	80	58	157	0	1	101	130	62	213	641	38	150
90%	-47	6	-25	5	0	92	0	152	213	126	377	104
Long Term												
Full Simulation	30	59	34	44	70	-4	16	59	40	121	81	13
Water Year Types												
Wet	43	1	69	14	53	-13	19	63	0	122	2	-25
Above Norm	196	0	4	114	67	-64	-68	-6	1	25	74	33
Below Norm	-32	363	-62	76	214	115	-13	4	21	299	-59	19
Dry	-75	29	95	0	17	-3	42	172	79	74	188	26
Critical	68	-65	7	69	21	-65	87	9	128	75	260	48
Dry & Crit	-18	-9	60	28	18	-28	60	107	99	75	217	35

Banks Export

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,673	6,680	7,125	5,473	8,095	6,107	5,981	5,144	5,290	6,680	6,680	6,680
20%	4,335	6,680	7,068	3,908	5,671	4,350	4,727	2,966	3,228	6,680	6,680	4,761
30%	3,551	6,680	7,031	3,428	3,987	3,618	4,160	2,399	2,358	6,680	6,680	3,064
40%	3,056	6,680	5,126	2,951	3,455	3,170	3,339	2,239	2,092	6,680	6,680	2,582
50%	2,613	5,422	4,122	2,841	3,057	2,511	2,832	2,141	1,906	6,680	6,680	2,314
60%	2,414	4,605	3,189	2,753	2,778	2,305	2,536	1,816	1,790	6,664	5,563	1,768
70%	1,965	3,481	2,908	2,644	2,648	2,066	2,168	1,477	1,742	5,684	2,827	1,133
80%	1,502	2,733	2,736	2,453	2,541	1,916	1,683	974	1,698	2,857	300	572
90%	970	1,940	2,588	2,179	2,426	1,756	1,070	651	300	1,069	300	396
Long Term												
Full Simulation	2,991	4,879	4,640	3,383	4,055	3,271	3,212	2,338	2,440	5,361	4,594	2,636
Water Year Types												
Wet	3,312	6,237	6,103	4,418	5,698	4,968	4,600	3,767	3,846	6,553	6,454	2,119
Above Norm	3,217	6,339	5,138	3,214	3,976	3,164	3,769	2,479	2,566	6,391	6,427	1,324
Below Norm	4,833	4,824	4,565	3,000	4,059	3,012	3,578	2,180	1,935	6,383	6,450	5,497
Dry	2,231	3,883	3,292	2,884	2,710	2,040	1,886	1,431	1,754	4,776	1,782	2,908
Critical	1,060	2,033	3,083	2,507	2,586	1,851	1,210	649	883	1,434	785	1,318
Dry & Crit	1,763	3,143	3,208	2,733	2,660	1,964	1,616	1,118	1,406	3,439	1,384	2,272

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	5,786	6,680	7,125	5,473	8,093	6,107	6,029	5,134	5,290	6,680	6,680	6,680
20%	4,371	6,680	7,069	3,817	5,653	4,350	4,621	2,966	2,934	6,680	6,680	4,760
30%	3,243	6,680	7,042	3,395	3,987	3,780	4,161	2,399	2,296	6,680	6,680	3,031
40%	2,916	6,680	5,210	2,949	3,535	3,229	3,337	2,232	2,044	6,680	6,680	2,519
50%	2,638	5,352	4,068	2,841	3,058	2,511	2,801	2,040	1,895	6,680	6,680	2,158
60%	2,430	4,446	3,212	2,753	2,766	2,309	2,536	1,624	1,786	6,664	5,631	1,763
70%	1,949	3,441	2,922	2,644	2,636	2,066	2,138	1,287	1,719	5,804	3,647	963
80%	1,459	2,546	2,736	2,553	2,541	1,916	1,708	988	1,688	3,004	319	583
90%	1,018	1,929	2,593	2,179	2,426	1,750	1,057	568	300	921	300	381
Long Term												
Full Simulation	2,970	4,826	4,667	3,375	4,029	3,267	3,189	2,271	2,424	5,379	4,607	2,612
Water Year Types												
Wet	3,268	6,249	6,173	4,404	5,698	4,960	4,528	3,705	3,846	6,496	6,520	2,059
Above Norm	3,079	6,294	5,169	3,230	3,879	3,227	3,823	2,410	2,580	6,426	6,427	1,281
Below Norm	4,919	4,628	4,565	2,924	4,008	2,931	3,596	2,177	1,946	6,389	6,412	5,644
Dry	2,203	3,861	3,268	2,913	2,693	2,041	1,837	1,260	1,673	4,904	1,733	2,833
Critical	1,093	1,954	3,119	2,510	2,590	1,868	1,211	654	874	1,442	846	1,269
Dry & Crit	1,759	3,098	3,209	2,752	2,652	1,972	1,586	1,017	1,353	3,519	1,378	2,208

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	112	0	0	0	-2	0	48	-11	0	0	0	0
20%	36	0	1	-92	-18	0	-107	0	-294	0	0	-2
30%	-307	0	11	-33	0	162	0	0	-62	0	0	-33
40%	-140	0	84	-1	80	58	-2	-8	-48	0	0	-63
50%	25	-71	-54	0	1	0	-31	-101	-11	0	0	-156
60%	15	-160	23	0	-11	4	0	-191	-4	-1	68	-5
70%	-15	-40	14	0	-12	0	-30	-190	-23	120	820	-170
80%	-43	-187	0	100	0	0	25	15	-10	147	19	11
90%	48	-10	5	0	0	-6	-14	-82	0	-148	0	-15
Long Term												
Full Simulation	-21	-53	27	-8	-26	-4	-23	-67	-15	17	13	-24
Water Year Types												
Wet	-44	12	70	-14	-1	-7	-72	-62	0	-57	66	-60
Above Norm	-138	-45	31	17	-97	64	53	-69	13	35	0	-43
Below Norm	86	-196	1	-76	-50	-80	18	-3	11	6	-38	147
Dry	-27	-22	-24	29	-16	2	-49	-171	-81	128	-49	-75
Critical	33	-79	36	3	4	17	0	5	-10	8	61	-49
Dry & Crit	-3	-45	0	19	-8	8	-29	-101	-53	80	-5	-65

Total Export

ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,934	11,280	11,701	9,239	11,086	9,438	9,410	9,276	9,890	11,280	11,280	11,189
20%	8,226	11,280	11,648	8,037	9,313	8,127	8,354	7,257	7,333	11,280	11,280	8,879
30%	7,468	11,280	11,289	7,300	8,549	7,644	7,817	6,054	5,833	11,263	11,280	7,378
40%	6,647	11,089	9,073	7,115	7,667	6,277	7,349	5,647	5,393	10,556	10,845	6,543
50%	5,871	9,063	7,761	6,945	7,037	5,815	6,211	5,273	5,125	10,284	10,481	5,708
60%	5,544	7,892	7,249	6,753	6,695	5,572	5,276	4,590	4,980	9,268	9,054	4,596
70%	5,223	6,569	6,856	6,561	6,532	5,220	3,739	3,732	4,852	8,658	6,705	3,810
80%	4,731	5,404	6,587	6,301	6,333	4,978	3,336	3,048	4,641	5,344	4,900	3,536
90%	3,983	4,261	5,613	5,389	6,068	4,679	2,595	2,399	2,786	2,290	3,771	3,192
Long Term												
Full Simulation	6,423	8,525	8,555	7,244	7,990	6,586	6,048	5,338	5,718	8,725	8,542	6,149
Water Year Types												
Wet	7,465	10,756	10,401	8,364	9,643	8,545	8,371	7,523	7,982	10,937	11,014	5,828
Above Norm	6,417	10,823	9,590	7,140	8,036	6,886	7,337	6,018	6,279	10,201	10,683	3,487
Below Norm	6,608	8,096	8,714	6,863	8,024	6,160	6,426	5,350	5,146	9,628	10,115	9,980
Dry	5,293	6,744	6,763	6,849	6,698	5,116	4,044	3,809	4,707	7,821	5,116	6,915
Critical	3,320	4,562	6,019	5,958	6,258	4,742	2,289	2,205	2,435	2,761	4,349	3,887
Dry & Crit	4,503	5,871	6,466	6,492	6,522	4,966	3,342	3,167	3,798	5,797	4,809	5,704

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	9,899	11,280	11,706	9,239	12,132	9,933	9,410	9,091	9,890	11,280	11,280	11,280
20%	8,219	11,280	11,655	8,037	9,218	8,127	8,375	7,257	7,336	11,280	11,280	8,915
30%	7,200	11,280	11,346	7,298	8,549	7,644	7,817	6,062	5,833	11,263	11,280	7,304
40%	6,697	11,265	9,153	7,115	7,698	6,278	7,252	5,647	5,393	10,683	10,888	6,542
50%	6,010	9,046	7,761	6,945	7,037	5,791	6,205	5,273	5,125	10,307	10,425	5,839
60%	5,656	7,420	7,271	6,753	6,695	5,572	5,276	4,610	4,980	9,777	9,092	4,596
70%	5,244	6,573	6,840	6,575	6,532	5,221	3,721	3,737	4,852	9,160	6,857	3,751
80%	4,724	5,432	6,632	6,333	6,333	4,978	3,336	3,048	4,661	5,810	4,873	3,521
90%	3,942	4,257	5,609	5,446	6,068	4,679	2,594	2,426	2,792	2,456	3,836	3,239
Long Term												
Full Simulation	6,433	8,531	8,615	7,280	8,033	6,578	6,041	5,330	5,742	8,863	8,635	6,138
Water Year Types												
Wet	7,464	10,769	10,540	8,364	9,695	8,525	8,318	7,523	7,982	11,002	11,082	5,743
Above Norm	6,475	10,777	9,625	7,270	8,006	6,886	7,322	5,943	6,294	10,261	10,757	3,477
Below Norm	8,662	8,263	8,652	6,863	8,187	6,194	6,431	5,351	5,178	9,933	10,018	10,146
Dry	5,191	6,751	6,835	6,878	6,699	5,114	4,037	3,810	4,704	8,024	5,255	6,866
Critical	3,420	4,418	6,062	6,030	6,282	4,695	2,376	2,219	2,554	2,844	4,670	3,886
Dry & Crit	4,483	5,818	6,526	6,539	6,532	4,946	3,373	3,174	3,844	5,952	5,021	5,674

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	-35	0	5	0	1,046	495	0	-185	0	0	0	91
20%	-6	0	6	0	-95	0	21	0	3	0	0	35
30%	-267	0	56	-2	0	0	0	8	0	0	0	-74
40%	50	176	80	0	31	0	-97	0	0	127	43	-1
50%	139	-17	0	0	0	-25	-6	0	0	23	-56	131
60%	112	-473	22	0	0	0	0	20	0	509	38	0
70%	21	5	-15	14	0	1	-18	4	0	502	152	-59
80%	-7	28	45	31	0	0	0	1	21	466	-27	-15
90%	-41	-4	-4	57	0	0	-1	27	6	166	65	46
Long Term												
Full Simulation	10	7	60	36	44	-8	-7	-8	25	138	93	-11
Water Year Types												
Wet	-1	13	139	0	52	-20	-53	1	0	65	68	-85
Above Norm	59	-45	35	131	-30	0	-15	-75	15	60	74	-10
Below Norm	54	167	-62	0	163	35	5	1	32	305	-97	166
Dry	-102	7	71	29	1	-2	-7	1	-3	202	139	-50
Critical	101	-144	43	72	25	-47	87	14	119	83	321	-1
Dry & Crit	-21	-53	60	47	10	-20	31	6	46	155	212	-30

Total CVP Delivery North of Delta

ROC Proposed Action (ROC PAv23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	106	93	34	21	16	42	174	430	483	532	442	161
20%	100	90	32	17	16	31	155	420	471	526	429	158
30%	94	84	30	15	16	24	147	411	464	521	421	155
40%	87	80	28	15	16	18	137	397	459	514	410	148
50%	79	77	25	15	15	16	125	391	447	510	399	141
60%	73	72	23	15	15	15	122	369	442	501	381	131
70%	68	69	21	15	14	15	111	359	433	468	367	123
80%	62	66	21	14	14	14	102	344	422	452	341	115
90%	57	63	20	13	13	14	62	318	394	415	313	110
Long Term												
Full Simulation	80	77	26	16	15	24	126	379	445	489	388	136
Water Year Types												
Wet	87	81	29	16	15	20	115	386	445	521	431	152
Above Norm	81	78	26	15	15	17	128	381	462	517	407	148
Below Norm	77	81	25	17	14	25	134	399	463	505	396	135
Dry	80	73	27	16	15	23	131	377	458	472	358	124
Critical	67	68	22	15	15	37	134	341	387	399	308	110
Dry & Crit	75	71	25	16	15	28	132	363	429	443	338	118

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	107	93	35	21	16	45	180	431	486	532	442	161
20%	101	90	32	17	16	32	159	424	477	526	432	158
30%	94	84	30	16	16	25	150	419	469	522	421	155
40%	88	80	28	15	16	18	138	408	463	518	411	151
50%	81	77	25	15	16	16	129	397	457	513	402	143
60%	73	72	24	15	15	15	125	376	447	509	389	135
70%	68	70	21	15	15	15	113	359	438	496	379	130
80%	62	66	21	14	14	15	102	347	426	461	351	118
90%	57	63	21	13	13	14	63	322	395	417	314	109
Long Term												
Full Simulation	81	77	27	16	15	24	129	382	449	494	392	138
Water Year Types												
Wet	88	81	29	16	15	20	116	386	445	522	432	153
Above Norm	82	78	26	15	15	18	129	382	463	519	408	149
Below Norm	78	81	25	17	15	26	138	403	468	511	401	138
Dry	82	74	27	16	16	24	138	388	470	487	371	129
Critical	68	68	22	15	16	37	135	342	388	401	309	111
Dry & Crit	76	72	25	16	16	29	137	370	437	452	346	122

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAv23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	4	6	1	3	0	0	0
20%	1	0	0	0	0	0	4	4	6	0	3	0
30%	0	0	0	0	0	0	3	8	6	1	0	0
40%	1	0	0	0	0	0	1	11	4	4	0	3
50%	2	0	0	0	0	0	5	5	10	3	3	3
60%	0	0	1	0	0	0	3	7	5	8	7	4
70%	0	1	0	1	1	0	3	0	5	27	11	7
80%	0	0	0	1	0	1	1	3	4	9	10	3
90%	0	0	1	0	0	0	0	4	1	1	1	-1
Long Term												
Full Simulation	1	0	0	0	0	1	3	4	4	5	4	2
Water Year Types												
Wet	0	0	0	0	0	0	1	0	1	1	1	0
Above Norm	0	0	0	0	0	0	1	1	1	1	1	1
Below Norm	1	0	0	0	0	1	4	4	5	6	5	2
Dry	2	1	1	0	0	1	7	11	13	15	12	5
Critical	1	0	0	0	0	1	1	1	2	2	1	1
Dry & Crit	1	1	0	0	0	1	5	7	8	10	8	3

Total CVP Delivery South of Delta

ROC Proposed Action (ROC PAv23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	201	122	108	140	166	180	228	342	502	583	475	258
20%	201	122	108	140	160	170	214	342	501	583	475	258
30%	196	119	104	132	154	160	204	326	476	551	442	247
40%	189	114	96	119	141	151	189	305	441	508	414	233
50%	181	107	87	104	125	143	179	279	400	457	380	221
60%	176	103	82	96	116	133	165	264	376	428	359	207
70%	167	96	72	80	99	129	159	236	332	373	321	201
80%	162	93	67	72	90	123	148	222	310	345	299	174
90%	137	81	60	62	78	109	130	192	270	302	262	157
Long Term												
Full Simulation	177	105	86	104	124	145	179	276	396	453	377	215
Water Year Types												
Wet	197	120	105	115	138	172	216	333	487	565	455	241
Above Norm	190	114	97	105	125	153	195	305	441	508	417	204
Below Norm	178	105	84	106	127	139	171	271	387	441	371	224
Dry	167	97	74	99	119	128	158	240	338	381	327	208
Critical	136	78	56	84	101	108	125	182	251	278	246	167
Dry & Crit	155	89	66	93	112	120	145	217	303	340	295	192

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	201	122	108	140	166	180	229	342	502	583	475	258
20%	201	122	108	140	161	172	218	342	502	583	475	258
30%	196	119	104	132	156	163	204	328	479	555	452	248
40%	190	115	98	121	145	157	195	306	443	511	420	234
50%	182	108	89	106	128	144	179	283	406	465	385	221
60%	178	104	83	98	117	133	165	269	383	437	363	209
70%	172	100	78	89	109	129	159	253	359	406	346	203
80%	164	94	69	76	92	123	149	228	319	357	310	175
90%	138	81	59	63	79	111	130	188	265	298	257	156
Long Term												
Full Simulation	178	106	87	106	126	146	181	279	401	460	382	216
Water Year Types												
Wet	198	120	106	116	138	174	218	335	490	568	460	241
Above Norm	191	115	98	105	125	156	197	308	447	515	422	206
Below Norm	181	107	87	108	129	141	174	278	398	455	381	228
Dry	168	97	75	102	122	128	158	243	343	387	332	209
Critical	137	78	57	87	105	108	125	185	256	284	251	169
Dry & Crit	156	90	67	96	115	120	145	220	308	346	299	193

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAv23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	1	2	4	0	0	0	0	0
30%	0	0	0	0	2	3	0	2	3	4	10	0
40%	0	1	1	2	4	6	6	1	2	3	6	1
50%	1	1	1	2	4	1	0	4	6	7	5	0
60%	2	1	2	3	0	0	0	5	7	9	3	2
70%	6	4	6	9	11	0	0	17	27	33	25	3
80%	2	1	2	4	2	1	1	6	9	12	11	1
90%	1	0	-1	1	2	2	0	-3	-6	-4	-5	-1
Long Term												
Full Simulation	1	1	1	2	2	1	2	3	5	7	6	1
Water Year Types												
Wet	0	0	1	1	1	2	3	2	3	3	5	0
Above Norm	2	1	1	1	1	3	2	4	6	7	5	2
Below Norm	2	2	2	2	3	2	3	7	11	14	10	3
Dry	1	1	1	3	4	1	0	3	5	6	4	1
Critical	1	1	1	3	3	0	0	3	5	7	5	2
Dry & Crit	1	1	1	3	3	0	0	3	5	6	5	2

Total SWP Delivery

ROC Proposed Action (ROC PAV23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	353	322	320	206	204	264	241	346	417	439	445	372
20%	329	303	298	122	174	179	223	319	388	412	420	351
30%	315	290	284	100	119	159	200	307	371	399	410	335
40%	272	269	270	92	84	150	186	279	341	386	399	323
50%	246	241	249	49	60	91	141	231	319	376	389	305
60%	207	225	224	20	34	38	125	195	304	366	377	288
70%	170	187	193	13	19	26	114	166	285	346	337	217
80%	131	128	156	5	12	17	28	135	219	278	251	167
90%	92	77	85	5	8	13	22	96	154	192	166	122
Long Term												
Full Simulation	231	224	232	79	91	111	146	230	305	348	346	267
Water Year Types												
Wet	302	295	289	138	163	191	213	307	377	405	418	335
Above Norm	262	279	290	77	103	142	175	266	351	397	408	305
Below Norm	284	234	238	69	72	110	165	256	333	378	395	314
Dry	160	168	166	39	38	31	87	162	247	311	277	207
Critical	88	83	140	27	24	25	40	96	156	197	176	119
Dry & Crit	131	134	156	34	32	29	68	135	210	265	236	172

Shasta Dam Raise, CP4A, with ROC Proposed Action

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	353	325	324	205	202	263	241	346	417	439	445	372
20%	325	310	304	117	170	178	222	319	383	411	419	348
30%	309	284	283	98	117	159	200	303	363	396	403	331
40%	271	271	267	91	85	149	181	279	339	384	394	322
50%	243	246	255	53	56	88	142	237	321	375	389	303
60%	202	223	233	23	39	37	125	198	305	367	378	284
70%	175	184	200	13	19	28	115	167	284	345	331	210
80%	120	124	158	6	11	18	28	134	217	273	258	153
90%	92	79	83	5	8	13	22	92	148	186	166	121
Long Term												
Full Simulation	229	223	233	79	90	107	145	229	305	347	344	265
Water Year Types												
Wet	298	294	291	137	162	190	212	307	377	405	416	335
Above Norm	265	274	291	76	95	136	176	270	353	396	408	309
Below Norm	281	233	236	72	74	96	164	255	331	374	392	310
Dry	159	173	170	39	37	30	85	161	247	310	271	195
Critical	90	83	140	28	25	25	39	95	155	196	177	119
Dry & Crit	131	137	158	34	32	28	67	135	210	265	233	165

Shasta Dam Raise, CP4A, with ROC Proposed Action minus ROC Proposed Action (ROC PAV23)

Statistic	Delivery (TAF)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance												
10%	0	3	5	-1	-1	-1	-1	0	0	0	0	0
20%	-4	7	6	-5	-5	-1	0	-1	-5	-1	-1	-2
30%	-6	-6	-1	-2	-2	0	0	-4	-7	-3	-7	-3
40%	-1	2	-3	0	1	-1	-5	0	-2	-2	-5	-2
50%	-2	6	7	3	-5	-3	1	6	2	0	1	-1
60%	-5	-1	9	3	4	-1	0	2	1	1	1	-4
70%	5	-2	6	0	0	1	1	1	0	-1	-6	-8
80%	-11	-4	2	0	-1	1	-1	-1	-3	-5	7	-14
90%	0	2	-2	0	0	0	0	-4	-6	-6	0	-1
Long Term												
Full Simulation	-2	-1	1	0	-1	-4	-1	0	0	-1	-2	-3
Water Year Types												
Wet	-5	-1	2	-1	-1	-1	-1	-1	-1	0	-2	1
Above Norm	2	-5	1	-1	-8	-7	1	4	2	0	0	3
Below Norm	-2	-2	-2	4	2	-14	0	0	-2	-4	-3	-3
Dry	-1	5	4	0	-1	-1	-2	-1	0	-1	-6	-12
Critical	2	-1	0	1	1	0	-1	-1	-1	-1	1	0
Dry & Crit	0	3	2	0	0	-1	-2	-1	0	-1	-3	-7