Appendix H1a4

Sacramento Water Allocation Model Results for Central Valley Project Export Constraint Sensitivity Analysis

H1a4.1 Introduction

This appendix summarizes results from the Sacramento Water Allocation Model (SacWAM) for model scenarios that represent changes in hydrology and water supply that could occur as a result of the regulatory pathway of the revised proposed Plan amendments described in Chapter 13, *Revised Proposed Plan Amendments*. Model scenarios presented in this appendix were built upon similar scenarios documented and analyzed in the 2023 *Draft Staff Report/Substitute Environmental Document in Support of Potential Updates to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary for the Sacramento River and its Tributaries, Delta Eastside Tributaries, and Delta* (2023 Draft Staff Report), and reflect subsequent model updates and a new scenario described in Appendix H1a, *Sacramento Water Allocation Model Methods*.

Because a proposed new objective incorporating the San Joaquin River Inflow to Export (I:E) constraint was not retained in the revised proposed Plan amendments (see Chapter 13.3, *Revised Proposed Plan Amendments*), model results are provided in this appendix to evaluate flow scenarios ranging from 35% to 65% of unimpaired flow in which the State Water Project (SWP) continues to operate to the I:E requirement but the Central Valley Project (CVP) does not, and the 55% UF with water supply adjustments (WSAs) scenario (55 w/WSAs). Each of these scenarios is labeled with the applicable scenario name with the suffix, "no CVP SJIE." Note that the "55 w/WSAs no CVP SJIE" scenario is identical to the "55 w/WSAs" scenario presented in Appendix H1a2 and Appendix H1a3. Additionally, results are presented for the baseline scenario, labeled "Baseline," used throughout the Staff Report to represent hydrological and water supply conditions associated with the project baseline described in Chapter 6.2.1, *Baseline Conditions*, and Chapter 7.1.5.2, *Baseline, Evaluation Approach, and Modeling Tools*. Consistent with analysis throughout the Staff Report, the baseline scenario retains the I:E constraint on both SWP and CVP exports.

Please refer to Chapter 6 and Appendix A1 for discussions of the approach to modeling baseline and percent unimpaired flow scenarios. Please refer to Appendix H1a for a discussion of model updates since the 2023 Draft Staff Report and to Chapter 13.4.2 and Appendix H1a for a description of model assumptions for the 55% UF with WSAs scenario and the approach to removing the I:E constraint from CVP operations.

All results presented in this appendix were produced using the model version SacWAM_2025.08.28 using historical hydrology for the period of record of water years 1922 through 2021. Because the "Current Accounts" year of 1922 is identical for all years within a given version of SacWAM, results are reported for water years 1923 through 2021.

H1a4.2 Streamflows

H1a4.2.1 American River below Folsom Reservoir (SWRCB Folsom)

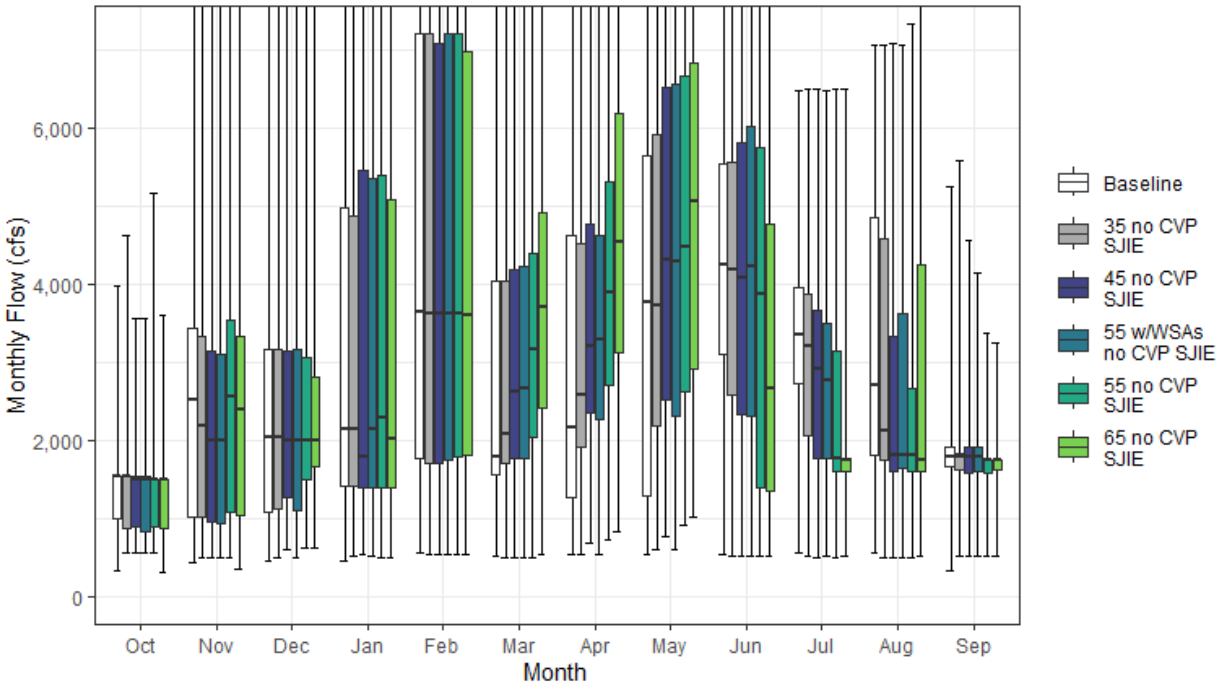

Figure H1a4-1. American River Streamflow below Folsom Reservoir Monthly Boxplot (cfs)

Table H1a4-1. Cumulative Distribution of Monthly Flow (cfs) — American River below Folsom Reservoir (SWRCB Folsom)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	317	426	461	461	563	524	534	538	544	559	549	319	477
10%	760	690	672	626	1,374	1,080	986	994	1,050	1,600	1,572	1,532	1,128
25%	1,000	1,017	1,069	1,411	1,755	1,563	1,257	1,294	3,094	2,720	1,798	1,660	1,469
50%	1,539	2,510	2,031	2,132	3,633	1,780	2,159	3,774	4,246	3,354	2,694	1,791	2,036
75%	1,541	3,424	3,170	4,979	7,203	4,030	4,619	5,640	5,533	3,948	4,843	1,914	3,296
90%	1,776	4,561	8,885	9,650	11,266	8,402	6,938	8,666	7,900	4,761	5,459	2,660	4,306
100%	3,978	16,784	20,728	26,148	31,620	14,563	15,497	13,635	14,215	6,483	7,059	5,236	6,983
Mean	1,422	2,751	3,483	4,077	5,195	3,424	3,280	4,136	4,547	3,257	3,142	1,972	2,448
35 no CVP SJIE													
0%	550	497	485	522	531	497	543	608	504	504	504	513	423
10%	675	659	743	736	1,356	1,262	1,497	1,380	1,464	1,572	1,484	1,330	1,107
25%	859	1,011	1,113	1,401	1,705	1,712	1,916	2,176	2,575	2,054	1,739	1,625	1,415
50%	1,539	2,178	2,028	2,131	3,629	2,088	2,581	3,715	4,173	3,207	2,119	1,792	2,010
75%	1,541	3,328	3,168	4,874	7,203	4,030	4,523	5,917	5,568	3,871	4,578	1,832	3,326
90%	1,850	4,424	8,884	9,649	11,266	8,402	6,935	8,663	7,490	4,447	5,456	3,050	4,273
100%	4,623	16,614	20,778	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,058	5,589	7,058
Mean	1,429	2,615	3,428	4,100	5,170	3,497	3,580	4,445	4,515	3,085	2,938	1,957	2,453
45 no CVP SJIE													
0%	550	497	605	525	531	497	681	756	504	504	504	513	445
10%	675	660	773	723	1,383	1,472	1,799	1,715	1,026	1,526	1,241	1,330	1,119
25%	885	945	1,273	1,382	1,698	1,756	2,357	2,523	2,325	1,760	1,603	1,582	1,468
50%	1,503	2,001	1,999	1,794	3,626	2,628	3,206	4,304	4,070	2,915	1,800	1,792	2,087
75%	1,540	3,141	3,146	5,448	7,085	4,178	4,766	6,519	5,805	3,658	3,333	1,908	3,261
90%	1,832	4,259	8,876	9,647	11,266	8,402	6,927	8,874	8,379	4,476	5,415	2,498	4,200
100%	3,556	15,101	20,120	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,073	4,555	7,031
Mean	1,367	2,508	3,420	4,079	5,136	3,684	3,930	4,843	4,477	2,850	2,673	1,864	2,457
55 w/WSAs no CVP SJIE													
0%	550	497	485	522	531	497	544	608	504	504	504	513	423
10%	673	660	744	788	1,391	1,331	1,509	1,319	1,087	1,551	1,332	1,438	1,109
25%	829	936	1,101	1,392	1,750	1,771	2,265	2,315	2,300	1,765	1,640	1,600	1,425
50%	1,503	2,001	1,999	2,131	3,629	2,664	3,288	4,283	4,215	2,774	1,801	1,791	2,091
75%	1,540	3,096	3,160	5,352	7,203	4,225	4,617	6,557	6,009	3,502	3,610	1,915	3,306
90%	1,792	4,100	8,873	9,649	11,266	8,402	6,925	8,987	8,233	4,307	5,389	2,979	4,267
100%	3,556	13,935	20,158	26,148	31,620	14,563	15,497	13,631	14,215	6,483	7,059	4,140	6,997
Mean	1,371	2,431	3,418	4,097	5,227	3,698	3,917	4,678	4,584	2,816	2,683	1,892	2,455
55 no CVP SJIE													
0%	551	497	611	495	531	497	722	904	511	504	504	514	468
10%	702	684	899	936	1,395	1,527	2,131	1,714	931	1,385	1,241	1,240	1,102
25%	893	1,074	1,484	1,397	1,789	2,045	2,703	2,619	1,385	1,603	1,591	1,582	1,464
50%	1,502	2,559	1,999	2,291	3,625	3,155	3,890	4,481	3,876	1,755	1,797	1,754	2,053
75%	1,503	3,528	3,057	5,401	7,203	4,394	5,300	6,673	5,751	3,137	2,670	1,754	3,273
90%	1,753	4,903	8,875	9,649	11,266	8,381	7,023	8,984	7,877	3,951	5,401	1,934	4,288
100%	5,153	16,253	21,648	26,148	31,620	14,563	15,497	13,641	14,215	6,487	7,332	3,376	7,060
Mean	1,382	2,800	3,525	4,218	5,176	3,969	4,381	4,971	4,120	2,269	2,512	1,669	2,466
65 no CVP SJIE													
0%	314	349	611	495	531	542	822	1,019	504	505	504	514	495
10%	674	718	887	966	1,400	1,721	2,500	1,707	914	1,241	1,241	1,503	1,107
25%	866	1,035	1,652	1,394	1,814	2,410	3,120	2,920	1,348	1,591	1,590	1,620	1,554
50%	1,502	2,401	1,999	2,015	3,595	3,707	4,530	5,052	2,655	1,755	1,754	1,753	2,080
75%	1,504	3,319	2,801	5,088	6,979	4,911	6,176	6,828	4,768	1,756	4,246	1,754	3,171
90%	1,911	4,605	8,743	9,561	10,555	8,462	7,734	9,269	6,651	3,310	5,871	1,840	4,252
100%	3,590	15,453	20,337	26,143	31,620	14,563	15,497	12,576	13,949	6,487	7,924	3,254	6,929
Mean	1,380	2,661	3,447	4,119	5,057	4,393	4,965	5,250	3,485	1,988	2,811	1,682	2,482

Table H1a4-2. Water Year Average of Monthly Flows (cfs) — American River below Folsom Reservoir (SWRCB Folsom)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	1,303	1,819	1,379	1,045	1,350	1,043	1,417	1,181	1,912	1,274	1,319	1,378
D	1,285	2,203	1,873	1,384	2,475	1,919	1,605	2,008	3,454	3,068	2,363	1,686
BN	1,382	2,526	2,441	2,223	4,049	2,397	2,730	3,494	3,903	3,804	2,838	1,892
AN	1,291	3,593	3,259	4,960	6,339	4,779	3,163	4,627	4,357	3,642	3,316	2,897
W	1,665	3,457	6,536	8,490	9,508	5,904	5,898	7,484	7,237	3,954	4,809	2,179
All	1,422	2,751	3,483	4,077	5,195	3,424	3,280	4,136	4,547	3,257	3,142	1,972
35 no CVP SJIE												
C	1,252	1,591	1,256	1,068	1,168	1,304	1,569	1,897	2,056	1,439	1,263	1,120
D	1,223	2,006	1,880	1,395	2,471	1,966	2,232	2,738	2,756	2,498	2,097	1,669
BN	1,480	2,510	2,406	2,359	4,087	2,507	3,158	3,685	3,924	3,509	2,610	1,768
AN	1,258	3,336	3,178	4,946	6,326	4,779	3,402	4,585	4,816	3,498	3,049	3,069
W	1,711	3,387	6,469	8,467	9,507	5,904	5,981	7,479	7,369	3,960	4,611	2,289
All	1,429	2,615	3,428	4,100	5,170	3,497	3,580	4,445	4,515	3,085	2,938	1,957
45 no CVP SJIE												
C	1,246	1,429	1,277	989	1,273	1,382	1,789	1,989	1,945	1,317	1,092	1,124
D	1,252	1,938	1,922	1,404	2,433	2,380	2,790	3,615	2,399	2,094	1,702	1,631
BN	1,408	2,211	2,342	2,213	3,979	2,771	3,745	4,271	3,971	3,235	2,167	1,755
AN	1,251	3,215	3,207	5,115	6,152	4,843	3,722	4,898	5,084	3,178	3,014	2,466
W	1,537	3,408	6,428	8,456	9,504	5,982	6,109	7,607	7,427	3,848	4,414	2,258
All	1,367	2,508	3,420	4,079	5,136	3,684	3,930	4,843	4,477	2,850	2,673	1,864
55 w/WSAs no CVP SJIE												
C	1,201	1,511	1,247	1,065	1,413	1,215	1,513	1,764	1,932	1,391	1,134	1,153
D	1,227	1,886	1,880	1,486	2,548	2,233	2,490	2,913	2,830	2,079	2,024	1,615
BN	1,419	2,262	2,349	2,228	4,100	2,870	3,766	4,191	3,903	3,174	2,298	1,822
AN	1,249	2,751	3,170	4,988	6,323	4,860	3,895	5,045	5,037	3,338	2,913	2,373
W	1,585	3,300	6,479	8,456	9,500	6,156	6,351	7,688	7,535	3,680	4,144	2,341
All	1,371	2,431	3,418	4,097	5,227	3,698	3,917	4,678	4,584	2,816	2,683	1,892
55 no CVP SJIE												
C	1,240	1,592	1,317	1,188	1,426	1,561	1,897	2,032	1,596	1,164	1,071	1,121
D	1,262	2,292	2,028	1,543	2,500	2,722	3,335	3,388	1,819	1,602	1,721	1,599
BN	1,317	2,533	2,412	2,468	4,086	3,163	4,494	4,691	3,436	1,811	1,971	1,729
AN	1,220	3,504	3,308	5,173	5,984	5,128	4,404	5,325	4,459	2,166	2,896	1,757
W	1,653	3,706	6,593	8,524	9,504	6,215	6,391	7,736	7,450	3,678	4,049	1,937
All	1,382	2,800	3,525	4,218	5,176	3,969	4,381	4,971	4,120	2,269	2,512	1,669
65 no CVP SJIE												
C	1,242	1,552	1,356	1,102	1,524	1,830	2,162	2,030	1,514	1,061	1,081	1,267
D	1,270	2,187	2,005	1,496	2,397	3,166	3,922	3,729	1,827	1,601	1,601	1,599
BN	1,345	2,416	2,364	2,403	3,750	3,751	5,281	5,053	2,932	1,732	1,795	1,729
AN	1,220	3,151	3,263	5,240	5,804	5,705	5,121	5,813	3,004	1,836	2,830	1,754
W	1,622	3,558	6,378	8,289	9,421	6,541	6,961	7,980	6,293	2,989	5,257	1,905
All	1,380	2,661	3,447	4,119	5,057	4,393	4,965	5,250	3,485	1,988	2,811	1,682

H1a4.2.2 American River above Confluence with Sacramento River (SWRCB American River)

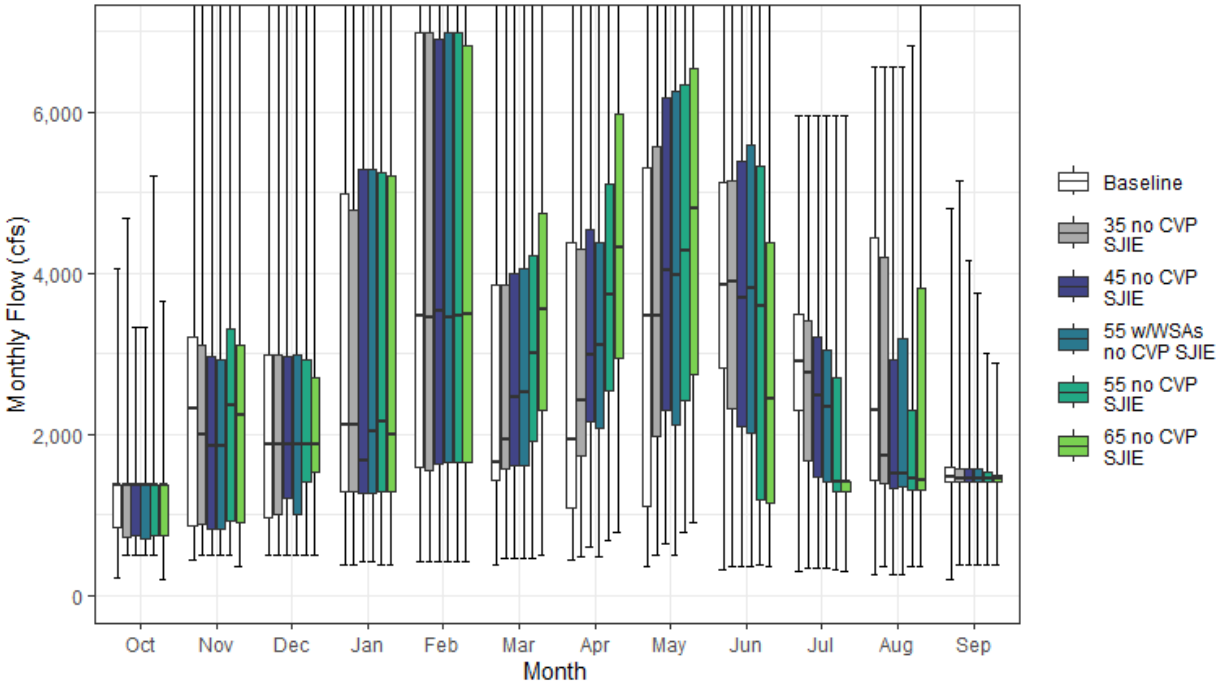

Figure H1a4-2. American River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-3. Cumulative Distribution of Monthly Flow (cfs) — American River above Confluence with Sacramento River (SWRCB American River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	224	431	500	386	416	383	430	353	312	297	252	190	367
10%	583	567	596	539	1,277	931	812	806	818	1,258	1,262	1,275	983
25%	839	865	961	1,277	1,597	1,426	1,094	1,099	2,825	2,290	1,434	1,415	1,320
50%	1,365	2,308	1,865	2,111	3,462	1,651	1,930	3,469	3,855	2,908	2,302	1,464	1,866
75%	1,366	3,214	2,993	4,993	6,982	3,849	4,382	5,302	5,119	3,487	4,435	1,597	3,117
90%	1,608	4,368	8,777	9,418	11,171	8,214	6,671	8,275	7,446	4,278	4,992	2,347	4,109
100%	4,049	16,514	20,399	26,156	31,483	14,478	15,081	13,158	13,649	5,956	6,550	4,811	6,784
Mean	1,250	2,585	3,348	3,971	5,079	3,279	3,086	3,867	4,190	2,833	2,758	1,683	2,282
35 no CVP SJIE													
0%	500	500	500	387	416	449	469	502	363	347	356	375	338
10%	544	567	656	621	1,276	1,204	1,313	1,186	1,232	1,308	1,170	1,127	981
25%	716	888	1,012	1,277	1,555	1,559	1,725	1,968	2,312	1,680	1,379	1,399	1,271
50%	1,365	2,003	1,864	2,108	3,458	1,942	2,414	3,466	3,886	2,765	1,739	1,457	1,844
75%	1,366	3,111	2,990	4,772	6,982	3,849	4,287	5,574	5,153	3,410	4,187	1,571	3,147
90%	1,671	4,198	8,697	9,417	11,170	8,214	6,667	8,272	7,043	3,973	4,989	2,773	4,082
100%	4,682	16,348	20,448	26,156	31,483	14,478	15,081	13,158	13,649	5,960	6,550	5,155	6,858
Mean	1,266	2,459	3,300	3,998	5,057	3,353	3,383	4,173	4,165	2,675	2,567	1,675	2,290
45 no CVP SJIE													
0%	500	500	500	417	416	449	603	645	363	347	250	375	359
10%	544	566	658	617	1,277	1,338	1,619	1,517	808	1,164	995	1,127	996
25%	741	823	1,215	1,275	1,620	1,619	2,151	2,301	2,094	1,473	1,320	1,398	1,319
50%	1,365	1,861	1,864	1,662	3,527	2,460	2,993	4,031	3,687	2,480	1,513	1,457	1,927
75%	1,366	2,959	2,970	5,292	6,910	3,994	4,531	6,166	5,386	3,204	2,921	1,572	3,077
90%	1,654	4,070	8,689	9,415	11,170	8,214	6,661	8,479	7,915	4,000	4,949	2,144	4,012
100%	3,322	14,860	19,801	26,156	31,483	14,479	15,081	13,158	13,649	5,960	6,564	4,146	6,831
Mean	1,214	2,361	3,303	3,982	5,027	3,540	3,728	4,570	4,131	2,454	2,316	1,592	2,299
55 w/WSAs no CVP SJIE													
0%	500	500	500	417	416	449	469	502	363	347	250	375	338
10%	544	566	656	656	1,279	1,219	1,351	1,135	855	1,215	1,010	1,224	982
25%	696	814	1,012	1,276	1,641	1,619	2,068	2,110	2,012	1,406	1,341	1,398	1,275
50%	1,365	1,861	1,864	2,042	3,458	2,509	3,103	3,969	3,808	2,344	1,516	1,457	1,945
75%	1,366	2,914	2,983	5,292	6,982	4,051	4,379	6,261	5,588	3,051	3,191	1,576	3,112
90%	1,614	3,870	8,686	9,417	11,170	8,214	6,657	8,614	7,772	3,836	4,923	2,612	4,079
100%	3,322	13,714	19,838	26,156	31,483	14,478	15,081	13,153	13,649	5,956	6,550	3,744	6,798
Mean	1,217	2,286	3,300	3,999	5,116	3,553	3,715	4,406	4,236	2,414	2,323	1,618	2,296
55 no CVP SJIE													
0%	500	500	500	387	416	449	687	789	368	307	356	375	382
10%	570	590	809	803	1,281	1,397	1,960	1,541	731	1,135	995	1,040	979
25%	740	925	1,403	1,294	1,658	1,918	2,540	2,419	1,185	1,282	1,310	1,398	1,328
50%	1,365	2,357	1,864	2,150	3,462	3,007	3,727	4,270	3,594	1,404	1,452	1,455	1,902
75%	1,365	3,308	2,928	5,245	6,982	4,219	5,098	6,338	5,333	2,697	2,289	1,520	3,107
90%	1,581	4,665	8,692	9,417	11,170	8,193	6,796	8,609	7,422	3,490	4,935	1,595	4,095
100%	5,203	15,992	21,303	26,156	31,483	14,478	15,081	13,163	13,649	5,960	6,816	2,999	6,859
Mean	1,241	2,644	3,406	4,120	5,068	3,839	4,183	4,703	3,790	1,904	2,167	1,418	2,315
65 no CVP SJIE													
0%	193	355	500	387	416	493	784	898	363	302	356	375	407
10%	544	612	796	834	1,308	1,587	2,316	1,522	722	953	995	1,267	992
25%	740	903	1,531	1,277	1,659	2,292	2,938	2,735	1,149	1,281	1,310	1,414	1,419
50%	1,365	2,239	1,864	1,991	3,492	3,554	4,323	4,810	2,433	1,404	1,426	1,455	1,929
75%	1,365	3,102	2,703	5,214	6,821	4,745	5,972	6,539	4,385	1,404	3,810	1,499	2,997
90%	1,730	4,402	8,558	9,412	10,598	8,287	7,447	8,903	6,218	2,865	5,393	1,569	4,064
100%	3,656	15,206	20,015	26,152	31,483	14,478	15,081	12,117	13,387	5,960	7,393	2,880	6,734
Mean	1,239	2,510	3,332	4,026	4,955	4,259	4,767	4,991	3,178	1,640	2,462	1,430	2,334

Table H1a4-4. Water Year Average of Monthly Flows (cfs) — American River above Confluence with Sacramento River (SWRCB American River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	1,123	1,661	1,259	923	1,250	919	1,238	982	1,631	958	1,012	1,143
D	1,116	2,039	1,763	1,263	2,350	1,778	1,434	1,794	3,142	2,647	2,015	1,445
BN	1,222	2,349	2,290	2,118	3,948	2,263	2,546	3,234	3,561	3,360	2,461	1,619
AN	1,125	3,425	3,119	4,915	6,243	4,621	2,961	4,340	3,998	3,189	2,913	2,552
W	1,485	3,293	6,386	8,378	9,372	5,746	5,677	7,138	6,797	3,494	4,359	1,837
All	1,250	2,585	3,348	3,971	5,079	3,279	3,086	3,867	4,190	2,833	2,758	1,683
35 no CVP SJIE												
C	1,094	1,452	1,155	956	1,082	1,185	1,397	1,698	1,802	1,161	1,000	930
D	1,068	1,855	1,777	1,279	2,350	1,824	2,050	2,515	2,464	2,105	1,761	1,436
BN	1,322	2,337	2,261	2,255	3,987	2,371	2,966	3,421	3,583	3,072	2,240	1,497
AN	1,098	3,177	3,047	4,901	6,230	4,620	3,196	4,299	4,449	3,048	2,654	2,719
W	1,536	3,228	6,321	8,356	9,372	5,747	5,758	7,134	6,927	3,500	4,166	1,944
All	1,266	2,459	3,300	3,998	5,057	3,353	3,383	4,173	4,165	2,675	2,567	1,675
45 no CVP SJIE												
C	1,094	1,300	1,188	891	1,198	1,270	1,619	1,793	1,699	1,049	837	934
D	1,107	1,796	1,835	1,297	2,319	2,236	2,601	3,391	2,124	1,734	1,400	1,418
BN	1,260	2,053	2,212	2,117	3,883	2,635	3,544	4,003	3,634	2,813	1,812	1,497
AN	1,094	3,062	3,084	5,070	6,058	4,683	3,510	4,606	4,712	2,737	2,619	2,132
W	1,376	3,256	6,285	8,346	9,368	5,823	5,884	7,259	6,984	3,391	3,974	1,913
All	1,214	2,361	3,303	3,982	5,027	3,540	3,728	4,570	4,131	2,454	2,316	1,592
55 w/WSAs no CVP SJIE												
C	1,046	1,378	1,153	961	1,329	1,102	1,347	1,576	1,686	1,119	877	961
D	1,083	1,745	1,793	1,378	2,433	2,091	2,305	2,697	2,545	1,701	1,705	1,397
BN	1,268	2,103	2,218	2,130	4,003	2,730	3,564	3,920	3,563	2,746	1,938	1,559
AN	1,095	2,613	3,049	4,944	6,227	4,700	3,681	4,751	4,666	2,893	2,521	2,050
W	1,424	3,151	6,336	8,347	9,364	5,995	6,122	7,339	7,090	3,228	3,711	1,995
All	1,217	2,286	3,300	3,999	5,116	3,553	3,715	4,406	4,236	2,414	2,323	1,618
55 no CVP SJIE												
C	1,094	1,457	1,226	1,083	1,350	1,456	1,730	1,838	1,363	904	818	931
D	1,130	2,139	1,936	1,438	2,388	2,597	3,160	3,183	1,574	1,272	1,429	1,397
BN	1,186	2,366	2,281	2,371	3,991	3,044	4,300	4,433	3,125	1,466	1,641	1,496
AN	1,087	3,345	3,187	5,127	5,895	4,981	4,189	5,025	4,101	1,778	2,522	1,474
W	1,498	3,545	6,448	8,413	9,368	6,067	6,164	7,388	7,007	3,228	3,619	1,621
All	1,241	2,644	3,406	4,120	5,068	3,839	4,183	4,703	3,790	1,904	2,167	1,418
65 no CVP SJIE												
C	1,096	1,418	1,266	1,003	1,450	1,723	1,987	1,838	1,284	807	827	1,069
D	1,136	2,039	1,917	1,395	2,296	3,036	3,739	3,521	1,582	1,272	1,315	1,397
BN	1,215	2,253	2,235	2,311	3,665	3,627	5,082	4,801	2,645	1,395	1,486	1,496
AN	1,087	2,999	3,145	5,201	5,722	5,555	4,915	5,541	2,706	1,474	2,459	1,474
W	1,467	3,404	6,240	8,182	9,286	6,392	6,745	7,651	5,883	2,575	4,795	1,589
All	1,239	2,510	3,332	4,026	4,955	4,259	4,767	4,991	3,178	1,640	2,462	1,430

H1a4.2.3 Antelope Creek above Confluence with Sacramento River (SWRCB Antelope Creek)

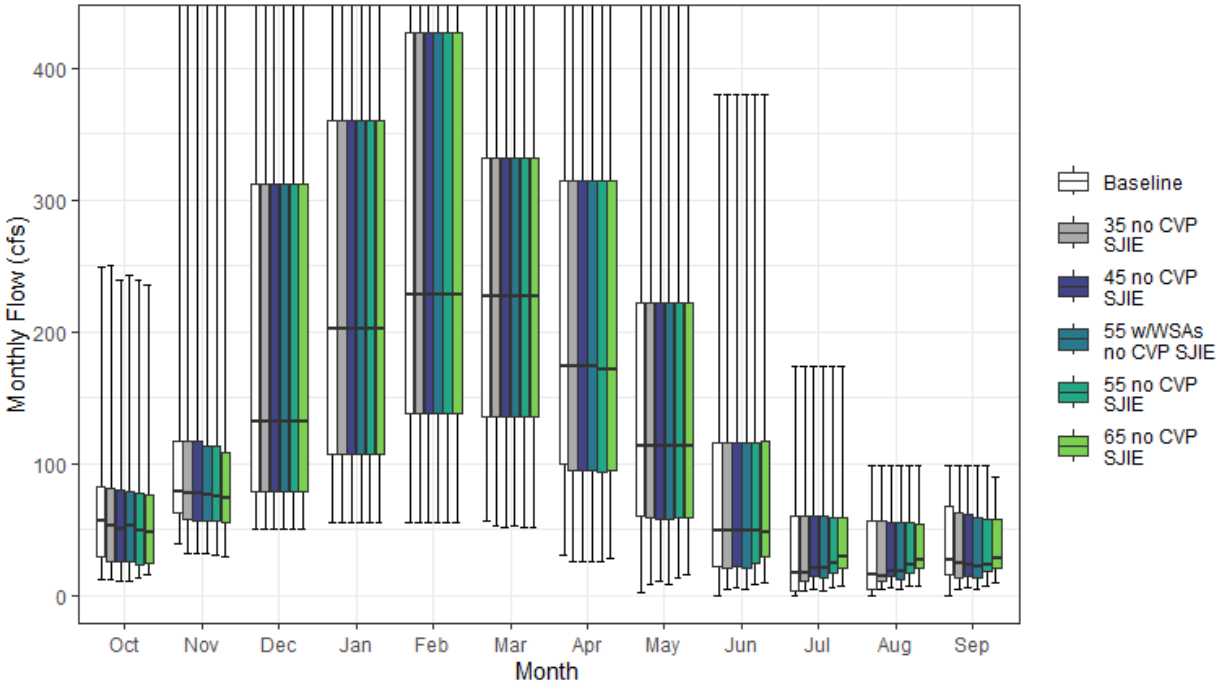

Figure H1a4-3. Antelope Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-5. Cumulative Distribution of Monthly Flow (cfs) — Antelope Creek above Confluence with Sacramento River (SWRCB Antelope Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	12	39	50	55	56	56	31	3	0	0	0	0	24
10%	20	51	64	71	97	101	68	36	10	0	0	6	41
25%	29	63	78	107	138	136	100	60	22	4	5	16	59
50%	57	78	131	202	229	227	174	113	49	17	16	27	88
75%	82	117	311	360	427	332	315	221	116	60	56	67	151
90%	91	184	506	579	625	532	435	296	173	78	69	74	200
100%	249	541	743	1,220	1,190	872	611	529	380	174	99	98	242
Mean	59	105	215	280	316	271	219	145	76	35	31	39	108
35 no CVP SJIE													
0%	12	32	50	55	56	53	26	9	5	4	4	5	25
10%	18	46	64	71	97	100	65	35	11	8	7	8	42
25%	26	58	78	107	138	136	94	59	21	11	11	13	59
50%	53	77	131	202	229	227	174	113	49	17	14	24	88
75%	81	117	311	360	427	332	315	221	116	60	56	63	151
90%	87	181	506	579	625	532	435	296	173	78	69	73	199
100%	250	541	743	1,220	1,190	872	611	529	380	174	98	98	242
Mean	55	103	215	280	316	271	218	145	76	38	32	37	107
45 no CVP SJIE													
0%	11	31	50	55	56	52	25	11	6	5	5	6	25
10%	16	43	64	71	97	100	65	35	14	10	10	10	42
25%	25	57	78	107	138	136	94	58	21	14	14	15	59
50%	51	77	131	202	229	227	173	113	49	20	19	23	88
75%	79	117	311	360	427	332	315	221	116	60	55	62	151
90%	87	179	506	579	625	532	435	296	174	77	68	73	199
100%	240	540	743	1,220	1,190	872	611	529	380	174	98	98	241
Mean	54	101	215	280	316	271	218	145	77	39	33	37	107
55 w/WSAs no CVP SJIE													
0%	11	31	50	55	56	52	25	9	5	4	4	5	25
10%	18	45	64	71	96	100	67	34	11	8	8	8	42
25%	26	57	78	107	138	136	94	58	21	13	12	14	59
50%	52	76	131	202	229	227	173	113	49	20	19	21	87
75%	78	113	311	360	427	332	315	221	116	60	56	58	151
90%	85	182	506	579	625	532	435	296	173	82	67	69	199
100%	243	540	743	1,220	1,190	872	611	529	380	174	98	98	241
Mean	54	101	215	280	316	271	218	145	76	39	32	36	107
55 no CVP SJIE													
0%	13	30	50	55	56	52	25	14	8	6	6	8	25
10%	16	43	64	71	96	100	65	34	18	12	12	13	42
25%	23	56	78	107	138	136	94	59	25	17	17	18	60
50%	49	74	131	202	229	227	172	113	49	25	23	23	88
75%	78	113	311	360	427	332	315	221	116	59	56	58	151
90%	85	178	506	579	625	532	435	296	173	82	67	69	198
100%	240	540	743	1,220	1,190	872	611	529	380	174	98	98	241
Mean	53	100	215	280	316	271	218	145	78	41	35	37	107
65 no CVP SJIE													
0%	16	29	50	55	56	52	27	16	9	7	8	9	26
10%	19	43	64	71	97	100	65	37	21	14	14	15	43
25%	25	55	78	107	138	136	94	59	29	20	20	21	61
50%	48	73	131	202	229	227	172	113	48	29	27	28	89
75%	77	109	311	360	427	332	315	221	116	59	54	57	151
90%	84	177	506	579	625	532	435	296	176	77	65	68	198
100%	235	533	743	1,220	1,190	872	611	529	380	174	98	90	241
Mean	53	98	215	280	316	271	218	145	79	43	37	38	108

Table H1a4-6. Water Year Average of Monthly Flows (cfs) — Antelope Creek above Confluence with Sacramento River (SWRCB Antelope Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	**35**	**56**	**99**	**99**	**116**	**114**	**64**	**35**	**9**	**0**	**1**	**6**
D	51	85	142	127	188	202	123	69	23	6	7	18
BN	57	87	151	208	274	237	214	114	56	17	15	26
AN	58	105	180	361	416	355	262	185	97	51	49	59
W	78	156	384	502	504	395	359	262	156	81	67	73
All	59	105	215	280	316	271	219	145	76	35	31	39
35 no CVP SJIE												
C	32	55	99	99	116	113	60	35	12	7	7	8
D	49	82	142	127	188	202	122	69	23	11	11	15
BN	53	84	151	208	274	237	213	114	55	18	15	22
AN	54	103	180	361	416	355	262	185	96	51	48	56
W	75	155	384	502	504	395	359	262	156	81	66	71
All	55	103	215	280	316	271	218	145	76	38	32	37
45 no CVP SJIE												
C	31	52	99	99	116	113	61	35	14	9	9	10
D	48	81	142	127	187	202	122	69	23	14	14	16
BN	52	83	151	208	274	237	213	114	55	20	18	21
AN	52	100	180	361	416	355	262	185	97	51	46	55
W	73	154	384	502	504	395	359	262	156	81	65	70
All	54	101	215	280	316	271	218	145	77	39	33	37
55 w/WSAs no CVP SJIE												
C	31	53	99	99	116	113	61	34	12	7	7	9
D	47	81	142	127	187	202	122	69	23	13	12	15
BN	52	82	151	208	274	237	212	115	54	20	18	21
AN	52	100	180	361	416	355	262	185	96	50	46	54
W	73	154	384	502	504	395	359	262	156	81	64	67
All	54	101	215	280	316	271	218	145	76	39	32	36
55 no CVP SJIE												
C	30	50	99	99	116	112	61	35	17	11	11	12
D	46	80	142	127	187	202	120	69	26	17	17	18
BN	51	82	151	208	274	237	212	115	55	24	22	23
AN	51	99	180	361	416	355	262	185	96	50	46	53
W	72	153	384	502	504	395	359	262	156	81	64	67
All	53	100	215	280	316	271	218	145	78	41	35	37
65 no CVP SJIE												
C	31	49	99	99	116	112	60	37	20	13	13	14
D	46	78	142	127	188	201	121	69	30	20	20	22
BN	51	80	151	208	274	236	211	116	56	29	26	27
AN	51	98	180	361	416	355	261	185	96	52	48	51
W	71	151	384	502	504	395	359	262	156	80	64	65
All	53	98	215	280	316	271	218	145	79	43	37	38

H1a4.2.4 Battle Creek above Confluence with Sacramento River (SWRCB Battle Creek)

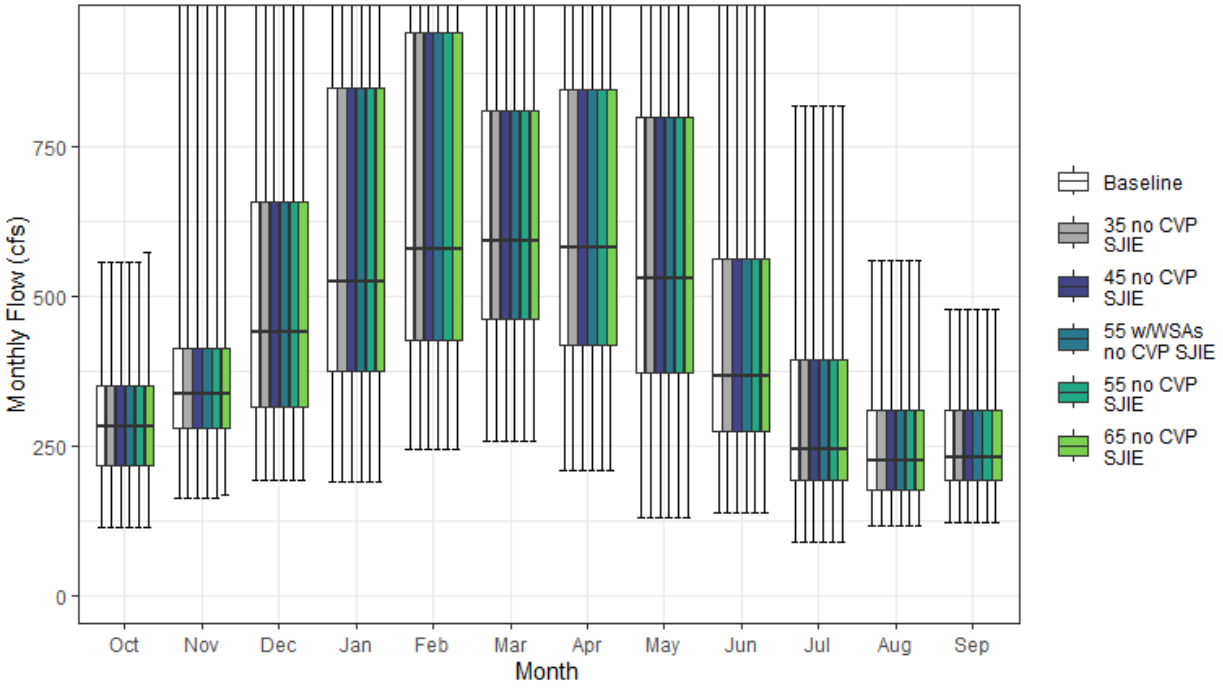

Figure H1a4-4. Battle Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-7. Cumulative Distribution of Monthly Flow (cfs) — Battle Creek above Confluence with Sacramento River (SWRCB Battle Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	113	162	192	191	246	259	209	131	139	89	116	122	161
10%	183	222	258	288	346	372	339	301	219	163	153	169	207
25%	217	279	314	376	427	462	418	373	273	194	176	192	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	559	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	286	372	542	664	723	685	652	587	445	294	244	250	346
35 no CVP SJIE													
0%	113	162	192	191	246	259	209	131	139	89	116	122	161
10%	183	222	258	288	346	372	339	301	219	163	153	169	207
25%	217	279	314	376	427	462	418	373	273	194	176	192	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	559	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	286	372	542	664	723	685	652	587	445	294	244	250	346
45 no CVP SJIE													
0%	113	162	192	191	246	259	209	131	139	89	116	122	161
10%	183	222	258	288	346	372	339	301	219	163	153	169	207
25%	217	279	314	376	427	462	418	373	273	194	176	193	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	559	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	286	372	542	664	723	685	652	587	445	294	244	250	346
55 w/WSAs no CVP SJIE													
0%	113	162	192	191	246	259	209	131	139	89	116	122	161
10%	183	222	258	288	346	372	339	301	219	163	153	169	207
25%	217	279	314	376	427	462	418	373	273	194	176	192	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	559	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	286	372	542	664	723	685	652	587	445	294	244	250	346
55 no CVP SJIE													
0%	113	162	192	191	246	259	209	131	139	89	116	122	161
10%	183	222	258	288	346	372	339	301	219	163	153	168	207
25%	217	279	314	376	427	462	418	373	273	194	176	193	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	559	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	286	372	542	664	723	685	652	587	445	294	244	250	346
65 no CVP SJIE													
0%	113	168	192	191	246	259	209	131	139	89	116	121	161
10%	183	222	258	288	346	372	339	301	219	163	152	169	207
25%	217	279	314	376	427	462	418	373	273	194	176	193	253
50%	282	336	441	524	579	592	584	531	368	244	225	232	304
75%	350	414	658	848	942	811	846	800	563	395	311	309	431
90%	401	539	1,019	1,144	1,279	1,148	1,054	975	755	459	357	345	530
100%	573	1,041	1,561	2,384	1,886	1,772	1,707	1,590	1,462	819	562	480	678
Mean	287	372	542	664	723	685	652	587	445	294	243	250	346

Table H1a4-8. Water Year Average of Monthly Flows (cfs) — Battle Creek above Confluence with Sacramento River (SWRCB Battle Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	241	260	354	349	395	400	311	276	212	157	154	173
D	282	335	455	403	524	544	495	389	286	198	183	203
BN	269	323	421	541	620	591	639	521	385	243	206	215
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	329	491	810	1,059	1,063	927	931	903	706	459	352	338
All	286	372	542	664	723	685	652	587	445	294	244	250
35 no CVP SJIE												
C	241	260	354	349	395	400	311	276	212	157	155	173
D	282	335	455	403	524	544	495	389	286	198	183	203
BN	269	323	421	541	620	591	639	521	385	243	206	215
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	329	491	810	1,059	1,063	927	931	903	706	459	352	338
All	286	372	542	664	723	685	652	587	445	294	244	250
45 no CVP SJIE												
C	241	260	354	349	395	400	311	276	212	157	154	173
D	282	335	455	403	524	544	495	389	286	198	183	203
BN	269	323	421	541	620	591	639	521	385	243	206	215
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	329	491	810	1,059	1,063	927	931	903	706	459	352	338
All	286	372	542	664	723	685	652	587	445	294	244	250
55 w/WSAs no CVP SJIE												
C	241	260	354	349	395	400	311	276	212	157	155	173
D	282	335	455	403	524	544	495	389	286	198	183	203
BN	269	323	421	541	620	591	639	521	385	243	206	215
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	329	491	810	1,059	1,063	927	931	903	706	459	352	338
All	286	372	542	664	723	685	652	587	445	294	244	250
55 no CVP SJIE												
C	241	260	354	349	395	400	311	276	212	157	154	172
D	282	335	455	403	524	544	495	389	286	198	183	202
BN	269	323	421	541	620	591	639	521	385	243	206	215
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	330	491	810	1,059	1,063	927	931	903	706	459	352	338
All	286	372	542	664	723	685	652	587	445	294	244	250
65 no CVP SJIE												
C	242	260	354	349	395	400	311	276	212	157	153	172
D	282	335	455	403	524	544	495	389	286	198	183	202
BN	269	323	421	541	620	591	639	521	385	243	206	214
AN	274	367	474	768	835	866	716	680	489	324	263	277
W	330	491	810	1,059	1,063	927	931	903	706	459	352	338
All	287	372	542	664	723	685	652	587	445	294	243	250

H1a4.2.5 Bear River below Camp Far West Reservoir (SWRCB Camp Far West)

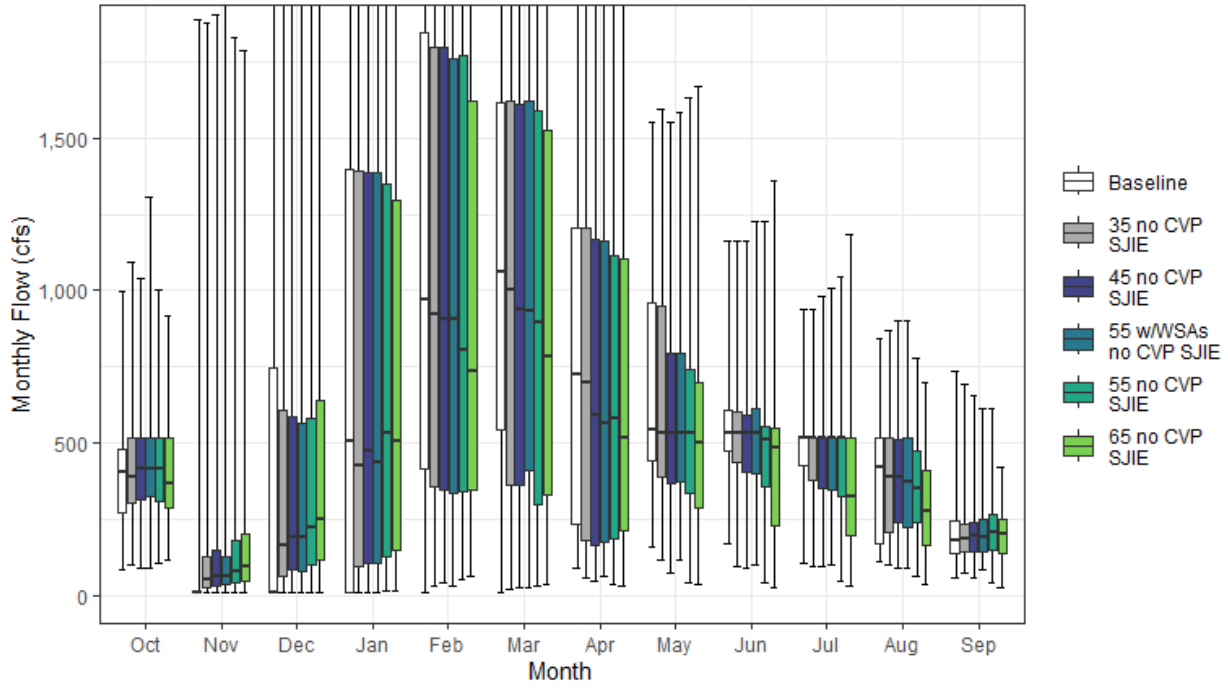

Figure H1a4-5. Bear River Streamflow below Camp Far West Reservoir Monthly Boxplot (cfs)

Table H1a4-9. Cumulative Distribution of Monthly Flow (cfs) — Bear River below Camp Far West Reservoir (SWRCB Camp Far West)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	85	10	10	10	10	10	88	158	172	106	109	56	69
10%	217	10	10	10	10	117	126	310	314	291	124	106	144
25%	272	10	10	10	417	541	236	441	472	426	171	135	223
50%	402	10	10	506	972	1,059	727	542	530	515	418	178	401
75%	477	10	745	1,395	1,846	1,616	1,204	958	609	523	515	242	681
90%	515	449	2,198	2,680	3,029	2,592	1,678	1,228	885	694	554	304	867
100%	997	1,891	3,993	4,748	6,332	4,154	3,723	1,551	1,162	939	841	733	1,228
Mean	380	157	590	986	1,303	1,194	868	685	564	493	376	199	469
35 no CVP SJIE													
0%	97	10	10	10	33	20	57	115	93	95	99	72	74
10%	246	14	29	48	114	117	121	275	292	277	152	116	144
25%	305	25	63	93	356	359	180	391	438	376	204	140	218
50%	386	50	163	423	923	1,005	697	530	530	515	388	186	389
75%	515	126	606	1,395	1,800	1,620	1,204	949	603	515	515	232	680
90%	515	513	2,129	2,668	3,029	2,604	1,701	1,197	911	692	515	304	863
100%	1,091	1,878	3,822	4,748	6,332	4,154	3,737	1,596	1,162	939	867	691	1,227
Mean	400	186	601	976	1,282	1,170	838	641	549	481	374	204	463
45 no CVP SJIE													
0%	90	10	10	11	42	25	44	75	89	97	89	56	75
10%	253	18	38	61	146	109	108	221	264	267	165	116	141
25%	311	33	83	105	345	361	164	366	406	349	240	144	212
50%	417	64	193	475	904	938	592	530	530	515	386	199	371
75%	515	151	584	1,388	1,796	1,612	1,168	794	591	515	510	239	672
90%	533	553	2,117	2,668	3,052	2,604	1,700	1,086	924	682	527	302	850
100%	1,037	1,903	3,859	4,629	6,332	4,139	3,748	1,551	1,162	983	901	655	1,237
Mean	409	203	602	970	1,270	1,149	803	597	537	476	374	209	457
55 w/WSAs no CVP SJIE													
0%	91	10	10	10	33	25	60	117	102	102	90	81	78
10%	252	16	31	51	124	134	112	248	280	255	152	112	146
25%	323	33	80	106	334	412	174	372	400	345	222	144	214
50%	414	65	189	436	904	931	565	530	530	515	370	189	372
75%	515	128	564	1,388	1,760	1,619	1,164	795	611	515	515	251	655
90%	549	521	2,086	2,670	3,024	2,604	1,676	1,085	906	655	527	300	844
100%	1,306	2,813	3,868	4,643	6,332	4,154	3,764	1,586	1,226	1,009	901	613	1,231
Mean	418	215	574	954	1,272	1,154	805	598	542	477	359	207	455
55 no CVP SJIE													
0%	106	10	10	13	51	31	34	41	40	45	61	39	67
10%	260	22	46	74	179	122	108	189	179	240	156	112	131
25%	308	40	99	124	340	298	187	334	358	322	241	147	206
50%	417	79	224	533	804	896	580	530	511	515	353	209	357
75%	515	179	580	1,352	1,769	1,588	1,117	739	555	515	473	266	653
90%	565	532	2,133	2,692	2,891	2,509	1,676	1,055	918	638	532	308	843
100%	1,004	1,830	3,703	4,617	6,332	4,139	3,764	1,631	1,226	1,046	776	613	1,223
Mean	418	207	606	958	1,249	1,109	789	575	513	461	352	213	448
65 no CVP SJIE													
0%	118	10	10	15	61	37	30	37	25	29	34	25	64
10%	235	26	54	87	206	144	95	111	118	126	120	87	118
25%	285	47	117	147	345	332	212	286	225	194	166	138	186
50%	366	93	249	508	733	782	515	503	485	325	276	203	327
75%	518	199	639	1,297	1,620	1,526	1,102	699	547	515	410	249	614
90%	584	456	2,049	2,586	2,786	2,313	1,719	1,020	786	711	556	301	809
100%	915	1,788	3,339	4,638	5,968	4,172	3,711	1,670	1,360	1,187	700	420	1,214
Mean	399	205	598	927	1,204	1,050	763	539	449	382	307	197	422

Table H1a4-10. Water Year Average of Monthly Flows (cfs) — Bear River below Camp Far West Reservoir (SWRCB Camp Far West)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	362	45	51	62	247	258	165	314	332	329	174	120
D	326	54	181	266	514	733	406	493	463	436	249	151
BN	360	43	328	497	1,112	1,099	800	601	542	475	389	180
AN	370	212	522	1,414	1,714	1,525	939	929	691	575	440	255
W	445	344	1,370	2,145	2,401	1,959	1,597	981	725	602	542	265
All	380	157	590	986	1,303	1,194	868	685	564	493	376	199
35 no CVP SJIE												
C	392	69	106	102	255	217	144	256	302	305	188	127
D	351	85	229	285	484	668	354	432	431	407	268	161
BN	362	73	345	491	1,045	1,099	741	544	532	474	383	184
AN	404	215	533	1,356	1,692	1,502	924	888	685	564	407	260
W	463	383	1,327	2,103	2,400	1,957	1,589	961	724	600	531	268
All	400	186	601	976	1,282	1,170	838	641	549	481	374	204
45 no CVP SJIE												
C	403	74	122	127	263	213	128	229	271	289	198	129
D	357	92	249	285	483	633	303	393	401	393	296	175
BN	377	83	342	500	1,006	1,066	687	512	524	474	370	197
AN	406	229	549	1,320	1,662	1,482	873	774	691	577	410	251
W	473	420	1,304	2,078	2,394	1,945	1,573	926	724	599	514	266
All	409	203	602	970	1,270	1,149	803	597	537	476	374	209
55 w/WSAs no CVP SJIE												
C	403	70	112	110	261	226	143	248	296	300	192	127
D	355	90	242	282	467	663	322	415	416	391	287	166
BN	389	79	319	471	1,037	1,054	692	510	518	472	383	202
AN	415	240	535	1,296	1,665	1,478	865	763	683	573	376	239
W	492	458	1,240	2,066	2,393	1,942	1,561	911	725	601	480	269
All	418	215	574	954	1,272	1,154	805	598	542	477	359	207
55 no CVP SJIE												
C	394	84	146	149	260	212	132	190	220	244	182	128
D	351	100	271	269	486	569	301	369	360	359	295	177
BN	396	95	323	505	980	995	660	498	500	460	342	219
AN	426	239	555	1,288	1,592	1,432	840	726	662	576	382	246
W	491	408	1,295	2,049	2,370	1,925	1,560	918	729	606	478	270
All	418	207	606	958	1,249	1,109	789	575	513	461	352	213
65 no CVP SJIE												
C	362	71	164	177	293	235	128	131	132	134	131	100
D	335	116	293	268	478	536	274	314	256	259	228	175
BN	385	117	342	504	922	818	639	482	449	343	266	191
AN	384	233	564	1,263	1,406	1,371	752	691	599	461	379	233
W	481	388	1,229	1,945	2,320	1,879	1,543	897	699	599	455	254
All	399	205	598	927	1,204	1,050	763	539	449	382	307	197

H1a4.2.6 Bear River above Confluence with Feather River (SWRCB Bear River)

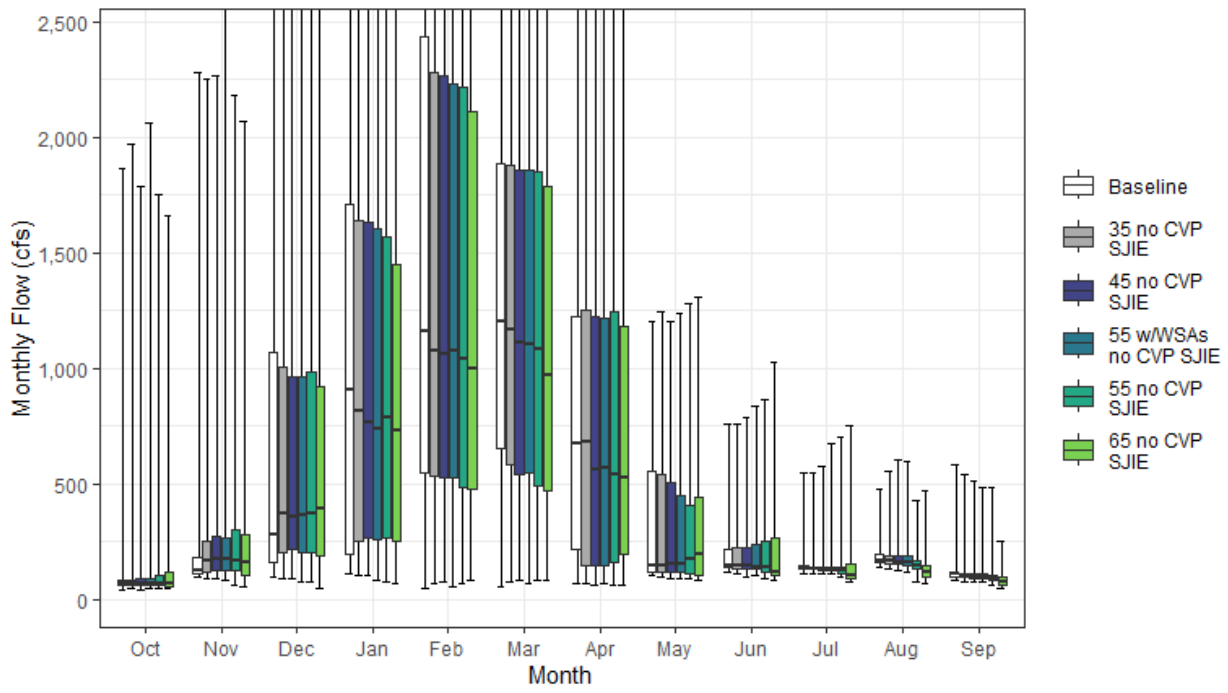

Figure H1a4-6. Bear River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a4-11. Cumulative Distribution of Monthly Flow (cfs) — Bear River above Confluence with Feather River (SWRCB Bear River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	42	94	99	108	45	57	70	102	121	111	142	79	77
10%	52	104	117	145	140	199	93	108	128	125	150	93	141
25%	59	110	159	193	546	653	219	118	137	132	157	96	202
50%	67	126	281	903	1,156	1,203	672	148	147	136	166	107	360
75%	83	182	1,069	1,708	2,434	1,885	1,220	554	215	145	193	112	691
90%	112	595	2,716	3,390	3,821	3,021	1,797	814	474	299	203	128	863
100%	1,867	2,277	4,471	6,013	7,651	5,444	4,272	1,204	757	546	475	584	1,305
Mean	96	288	868	1,341	1,715	1,455	872	339	224	172	188	121	460
35 no CVP SJIE													
0%	45	90	88	104	66	75	69	93	107	111	130	79	77
10%	55	103	137	198	221	197	89	106	126	122	146	90	134
25%	63	118	201	252	534	579	146	117	134	129	154	94	193
50%	68	164	368	817	1,073	1,165	680	145	145	134	165	101	350
75%	82	251	1,002	1,637	2,281	1,877	1,249	538	220	142	185	108	693
90%	112	651	2,661	3,262	3,742	3,033	1,843	811	518	293	235	125	864
100%	1,968	2,255	4,300	6,013	7,651	5,444	4,296	1,247	757	546	556	543	1,298
Mean	98	309	872	1,326	1,688	1,431	855	330	226	170	187	117	456
45 no CVP SJIE													
0%	42	90	88	101	75	80	64	90	94	110	128	73	78
10%	56	105	146	201	247	196	90	103	119	119	142	86	141
25%	63	124	213	269	525	542	146	118	130	125	150	90	187
50%	68	173	354	763	1,064	1,111	564	153	142	132	160	98	349
75%	88	275	964	1,630	2,263	1,859	1,221	504	225	141	185	108	684
90%	115	703	2,640	3,258	3,731	3,033	1,845	762	537	298	246	136	853
100%	1,789	2,262	4,329	6,012	7,645	5,430	4,330	1,204	789	574	601	509	1,300
Mean	98	322	868	1,316	1,672	1,410	828	314	229	174	186	115	451
55 w/WSAs no CVP SJIE													
0%	44	79	76	84	53	70	67	92	101	107	120	78	73
10%	56	99	148	200	246	201	91	104	121	118	138	84	139
25%	63	124	203	257	529	545	145	117	132	125	148	91	185
50%	69	172	365	735	1,073	1,105	570	151	142	132	160	99	346
75%	90	268	959	1,607	2,230	1,858	1,219	446	237	142	185	108	680
90%	118	613	2,639	3,251	3,805	3,033	1,848	748	508	325	266	149	845
100%	2,063	3,143	4,337	6,022	7,651	5,444	4,370	1,237	835	676	597	484	1,307
Mean	102	332	840	1,299	1,673	1,415	833	317	234	181	184	113	450
55 no CVP SJIE													
0%	44	59	73	73	71	84	62	86	91	94	78	62	74
10%	55	91	145	197	259	177	100	97	104	103	123	74	135
25%	62	122	202	263	483	489	163	113	117	111	135	83	175
50%	71	168	371	787	1,042	1,083	543	173	138	124	148	91	349
75%	104	299	981	1,568	2,214	1,850	1,241	409	249	136	169	105	666
90%	121	670	2,574	3,228	3,635	2,955	1,847	744	536	362	277	154	849
100%	1,751	2,184	4,155	6,022	7,629	5,430	4,370	1,280	862	705	429	484	1,292
Mean	100	312	856	1,288	1,632	1,369	824	318	229	178	173	108	442
65 no CVP SJIE													
0%	46	55	50	67	80	84	58	85	85	77	67	47	71
10%	51	77	127	189	244	193	96	94	93	87	83	54	138
25%	57	102	186	251	476	470	191	107	102	90	99	62	174
50%	71	162	395	727	997	966	523	196	120	100	116	72	316
75%	117	279	919	1,451	2,109	1,784	1,182	445	264	154	143	99	628
90%	140	538	2,428	3,143	3,522	2,825	1,861	763	413	378	310	174	815
100%	1,657	2,067	4,026	5,850	7,177	5,462	4,343	1,306	1,025	754	471	250	1,288
Mean	103	284	813	1,224	1,544	1,305	801	325	211	171	154	92	421

Table H1a4-12. Water Year Average of Monthly Flows (cfs) — Bear River above Confluence with Feather River (SWRCB Bear River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	74	146	230	237	426	380	144	111	136	141	188	110
D	70	172	407	452	745	920	387	169	141	154	193	117
BN	70	159	519	753	1,495	1,322	785	215	166	138	157	100
AN	72	354	767	1,923	2,290	1,839	923	533	295	195	189	154
W	152	504	1,808	2,721	3,021	2,352	1,651	585	341	213	204	130
All	96	288	868	1,341	1,715	1,455	872	339	224	172	188	121
35 no CVP SJIE												
C	73	162	275	268	427	339	124	108	128	133	173	100
D	70	195	445	465	705	857	345	158	136	148	184	112
BN	72	183	530	741	1,421	1,322	751	202	174	141	156	95
AN	73	348	767	1,857	2,265	1,817	927	528	306	194	198	137
W	159	536	1,763	2,678	3,019	2,350	1,657	577	346	216	213	135
All	98	309	872	1,326	1,688	1,431	855	330	226	170	187	117
45 no CVP SJIE												
C	75	164	285	288	428	334	120	109	122	127	163	93
D	70	198	457	461	699	821	306	154	134	144	180	110
BN	75	187	521	743	1,376	1,289	700	200	178	154	161	97
AN	75	360	780	1,817	2,232	1,797	881	447	319	209	198	136
W	154	568	1,736	2,651	3,012	2,338	1,650	559	353	220	214	132
All	98	322	868	1,316	1,672	1,410	828	314	229	174	186	115
55 w/WSAs no CVP SJIE												
C	75	159	274	270	426	346	124	108	127	131	168	97
D	71	196	451	456	683	851	317	165	133	143	180	109
BN	78	185	501	718	1,409	1,278	710	195	175	155	167	100
AN	76	368	763	1,789	2,230	1,793	892	449	326	218	190	119
W	164	604	1,672	2,639	3,008	2,336	1,644	564	365	237	204	132
All	102	332	840	1,299	1,673	1,415	833	317	234	181	184	113
55 no CVP SJIE												
C	74	154	285	284	393	326	133	110	117	116	146	85
D	71	193	461	430	682	754	301	151	120	131	156	94
BN	80	189	492	736	1,326	1,219	690	208	170	157	165	106
AN	80	360	774	1,771	2,150	1,748	868	428	315	221	186	115
W	157	543	1,713	2,610	2,975	2,319	1,643	579	370	241	201	129
All	100	312	856	1,288	1,632	1,369	824	318	229	178	173	108
65 no CVP SJIE												
C	74	124	282	289	408	343	148	117	118	110	130	77
D	73	185	450	400	639	715	288	166	113	121	135	79
BN	83	182	478	701	1,211	1,038	660	219	166	140	138	90
AN	89	318	744	1,699	1,907	1,682	765	430	257	199	172	95
W	160	492	1,601	2,469	2,880	2,271	1,628	578	342	248	185	109
All	103	284	813	1,224	1,544	1,305	801	325	211	171	154	92

H1a4.2.7 Big Chico Creek above Confluence with Sacramento River (SWRCB Big Chico)

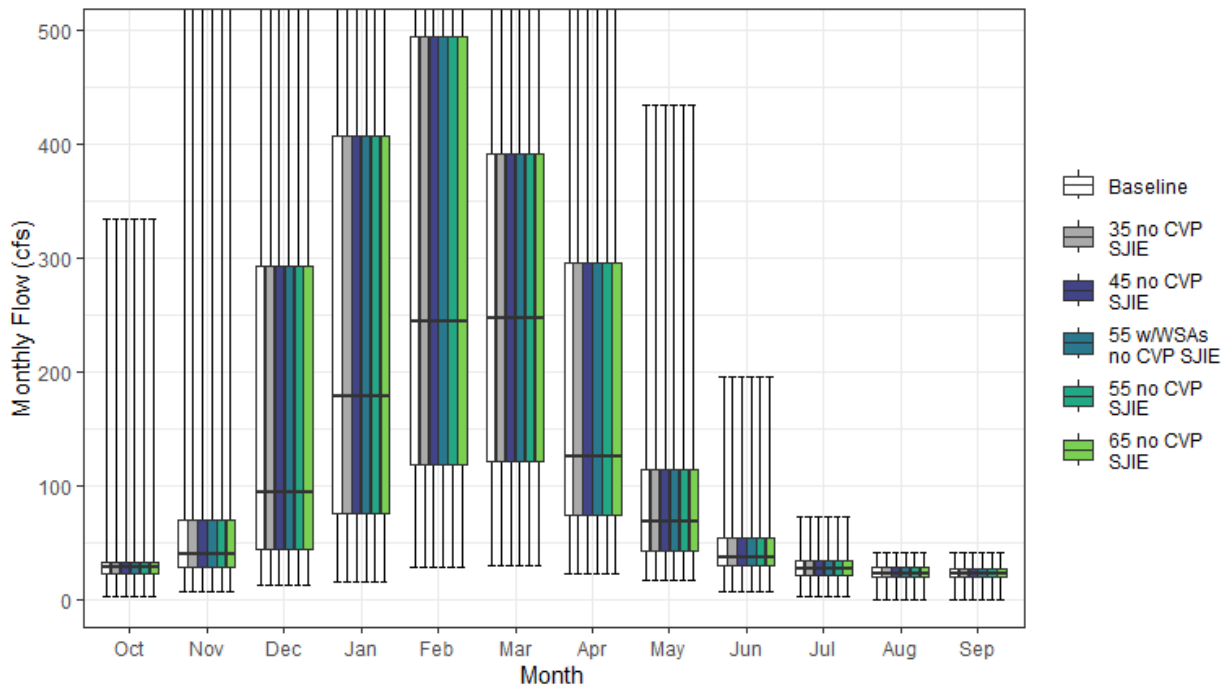

Figure H1a4-7. Big Chico Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-13. Cumulative Distribution of Monthly Flow (cfs) — Big Chico Creek above Confluence with Sacramento River (SWRCB Big Chico)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99
35 no CVP SJIE													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99
45 no CVP SJIE													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99
55 w/WSAs no CVP SJIE													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99
55 no CVP SJIE													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99
65 no CVP SJIE													
0%	3	7	12	16	27	29	22	17	7	2	0	0	18
10%	18	23	28	42	70	79	51	31	23	16	14	14	37
25%	23	28	44	76	118	120	74	43	29	21	19	20	53
50%	28	40	94	178	244	247	125	68	37	27	23	23	83
75%	32	69	293	407	494	391	296	114	54	35	28	27	134
90%	42	137	483	718	789	646	414	185	74	42	33	31	198
100%	334	651	1,006	1,503	1,421	1,332	892	434	196	72	41	40	246
Mean	32	68	185	292	357	311	201	92	45	28	23	23	99

Table H1a4-14. Water Year Average of Monthly Flows (cfs) — Big Chico Creek above Confluence with Sacramento River (SWRCB Big Chico)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23
35 no CVP SJIE												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23
45 no CVP SJIE												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23
55 w/WSAs no CVP SJIE												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23
55 no CVP SJIE												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23
65 no CVP SJIE												
C	22	25	68	80	129	116	57	36	26	14	12	12
D	27	51	114	101	181	203	107	56	31	22	19	21
BN	29	51	114	198	293	251	193	73	39	25	22	23
AN	32	68	135	417	490	373	218	122	53	33	26	25
W	42	116	365	555	596	507	343	147	67	40	30	28
All	32	68	185	292	357	311	201	92	45	28	23	23

H1a4.2.8 Butte Creek above Butte Slough (SWRCB Butte Creek)

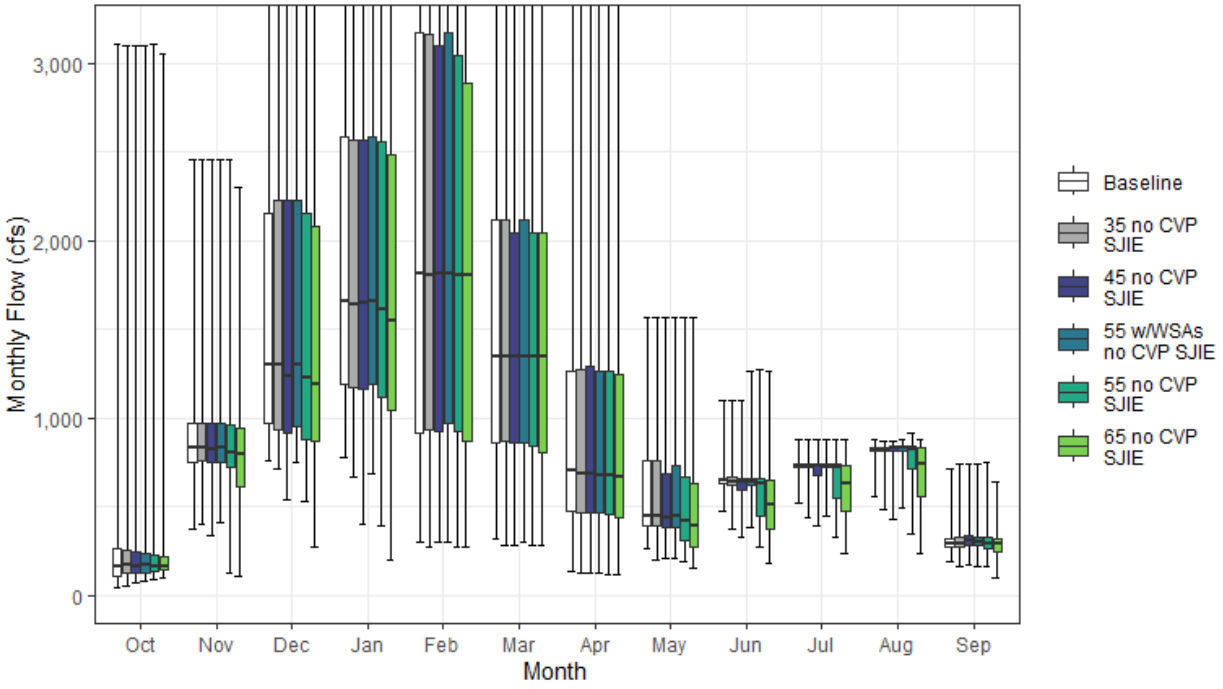

Figure H1a4-8. Butte Creek Streamflow above Butte Slough Monthly Boxplot (cfs)

Table H1a4-15. Cumulative Distribution of Monthly Flow (cfs) — Butte Creek above Butte Slough (SWRCB Butte Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	43	374	757	772	304	314	132	261	471	520	557	186	329
10%	98	692	841	940	534	532	327	361	593	654	743	247	496
25%	112	753	966	1,188	918	857	472	390	627	721	815	272	580
50%	159	835	1,300	1,656	1,810	1,341	705	446	645	728	825	292	709
75%	260	972	2,153	2,582	3,169	2,113	1,265	757	661	737	833	318	957
90%	368	1,241	3,235	3,866	4,680	3,015	1,757	1,107	758	750	840	361	1,121
100%	3,103	2,457	5,343	7,889	8,501	6,622	3,482	1,568	1,096	879	880	715	1,525
Mean	228	918	1,711	2,111	2,326	1,614	921	599	667	717	808	302	776
35 no CVP SJIE													
0%	55	400	712	664	271	281	128	203	374	441	487	160	291
10%	107	697	831	910	528	531	325	290	445	517	569	228	465
25%	123	756	934	1,174	928	866	464	387	623	720	815	276	568
50%	171	836	1,300	1,641	1,808	1,341	687	446	641	728	827	295	704
75%	252	972	2,227	2,565	3,161	2,114	1,268	758	663	737	835	327	964
90%	361	1,244	3,232	3,866	4,672	3,015	1,703	1,121	807	746	842	353	1,120
100%	3,099	2,457	5,343	7,873	8,501	6,622	3,482	1,569	1,096	879	872	738	1,519
Mean	232	922	1,706	2,094	2,312	1,614	910	586	650	698	790	306	770
45 no CVP SJIE													
0%	68	337	538	397	304	280	129	205	324	388	428	167	308
10%	101	648	823	868	529	531	325	277	437	513	567	206	455
25%	125	746	910	1,165	924	857	464	383	593	679	813	280	556
50%	162	822	1,232	1,647	1,809	1,341	683	440	637	728	828	306	687
75%	243	972	2,222	2,568	3,099	2,038	1,293	685	660	738	837	332	964
90%	361	1,244	3,223	3,864	4,672	3,015	1,702	1,097	772	753	844	354	1,133
100%	3,099	2,457	5,344	7,842	8,501	6,657	3,502	1,568	1,096	879	872	737	1,502
Mean	231	907	1,689	2,072	2,293	1,611	907	573	634	687	783	310	763
55 w/WSAs no CVP SJIE													
0%	77	414	752	684	304	303	130	205	384	444	489	160	304
10%	104	698	841	899	528	532	325	282	456	545	629	232	487
25%	126	753	955	1,187	966	857	461	385	619	720	814	278	576
50%	169	832	1,300	1,656	1,811	1,341	680	442	641	729	830	301	700
75%	238	972	2,227	2,582	3,169	2,114	1,264	729	661	738	838	329	963
90%	360	1,293	3,236	3,865	4,672	3,015	1,703	1,108	759	753	845	349	1,123
100%	3,099	2,457	5,343	7,885	8,462	6,622	3,482	1,568	1,261	879	881	737	1,518
Mean	232	927	1,716	2,102	2,315	1,614	904	581	646	701	795	308	771
55 no CVP SJIE													
0%	91	124	531	391	270	280	118	186	269	331	346	162	277
10%	108	563	780	804	513	531	323	248	379	466	536	192	450
25%	131	718	879	1,115	926	838	458	310	451	545	708	265	534
50%	158	805	1,228	1,607	1,808	1,341	672	417	628	726	827	293	676
75%	231	960	2,152	2,555	3,043	2,038	1,264	667	658	738	839	329	955
90%	344	1,293	3,188	3,865	4,582	3,015	1,698	1,107	756	754	847	352	1,132
100%	3,104	2,457	5,340	7,785	8,462	6,624	3,501	1,568	1,268	879	910	747	1,485
Mean	230	877	1,652	2,036	2,261	1,607	900	545	594	653	753	302	745
65 no CVP SJIE													
0%	98	110	270	196	269	281	114	152	181	237	239	96	237
10%	118	340	635	762	459	509	317	223	302	383	400	183	400
25%	144	611	869	1,047	868	800	441	272	372	477	558	246	508
50%	165	791	1,189	1,547	1,808	1,345	665	387	509	628	740	288	624
75%	217	939	2,081	2,485	2,885	2,038	1,247	626	649	728	833	320	900
90%	315	1,170	3,124	3,778	4,578	3,014	1,692	1,038	751	753	853	343	1,131
100%	3,051	2,300	5,333	7,073	8,462	6,623	3,501	1,566	1,262	879	881	636	1,416
Mean	226	806	1,593	1,965	2,199	1,597	890	504	531	592	684	285	713

Table H1a4-16. Water Year Average of Monthly Flows (cfs) — Butte Creek above Butte Slough (SWRCB Butte Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	150	737	1,213	1,221	1,149	888	313	348	565	626	705	235
D	170	844	1,428	1,239	1,413	1,213	611	424	639	730	828	341
BN	186	836	1,285	1,735	2,122	1,416	952	535	661	726	821	299
AN	206	880	1,559	2,717	3,111	1,884	1,037	695	678	730	824	323
W	348	1,137	2,515	3,219	3,439	2,313	1,408	863	741	746	832	303
All	228	918	1,711	2,111	2,326	1,614	921	599	667	717	808	302
35 no CVP SJIE												
C	154	732	1,183	1,180	1,114	880	311	289	455	527	593	214
D	172	866	1,439	1,217	1,394	1,213	585	424	618	717	822	339
BN	196	843	1,269	1,726	2,113	1,421	926	542	661	728	828	319
AN	210	872	1,573	2,706	3,104	1,884	1,034	673	678	730	831	336
W	351	1,135	2,512	3,213	3,434	2,313	1,408	856	760	744	830	310
All	232	922	1,706	2,094	2,312	1,614	910	586	650	698	790	306
45 no CVP SJIE												
C	155	716	1,167	1,155	1,091	881	311	271	438	503	559	206
D	170	843	1,413	1,184	1,346	1,209	583	391	590	685	813	344
BN	193	820	1,245	1,693	2,093	1,409	922	509	641	721	825	322
AN	215	870	1,554	2,677	3,100	1,886	1,029	680	678	734	833	347
W	348	1,127	2,506	3,211	3,433	2,314	1,404	866	749	747	833	317
All	231	907	1,689	2,072	2,293	1,611	907	573	634	687	783	310
55 w/WSAs no CVP SJIE												
C	152	749	1,204	1,194	1,122	883	312	294	469	534	621	221
D	169	868	1,445	1,222	1,397	1,211	588	412	606	714	815	341
BN	197	844	1,275	1,736	2,119	1,421	934	533	661	728	828	318
AN	216	895	1,601	2,724	3,106	1,884	1,011	680	678	736	834	347
W	348	1,132	2,513	3,215	3,433	2,313	1,390	850	747	748	837	308
All	232	927	1,716	2,102	2,315	1,614	904	581	646	701	795	308
55 no CVP SJIE												
C	152	639	1,080	1,059	1,000	862	302	241	377	452	496	199
D	175	819	1,369	1,151	1,313	1,203	582	338	496	591	733	321
BN	189	791	1,217	1,662	2,069	1,409	914	477	602	689	802	322
AN	210	854	1,517	2,634	3,068	1,884	1,014	659	648	734	837	347
W	346	1,109	2,495	3,203	3,428	2,316	1,398	859	753	749	840	310
All	230	877	1,652	2,036	2,261	1,607	900	545	594	653	753	302
65 no CVP SJIE												
C	169	522	956	948	929	826	293	230	326	398	416	181
D	181	794	1,353	1,128	1,302	1,201	573	277	390	499	610	301
BN	185	699	1,136	1,576	1,913	1,398	902	413	477	577	683	291
AN	197	801	1,464	2,517	2,986	1,885	999	604	568	666	785	317
W	328	1,037	2,451	3,145	3,400	2,311	1,390	835	764	745	840	311
All	226	806	1,593	1,965	2,199	1,597	890	504	531	592	684	285

H1a4.2.9 Cache Creek below Clear Lake (SWRCB Clear Lake)

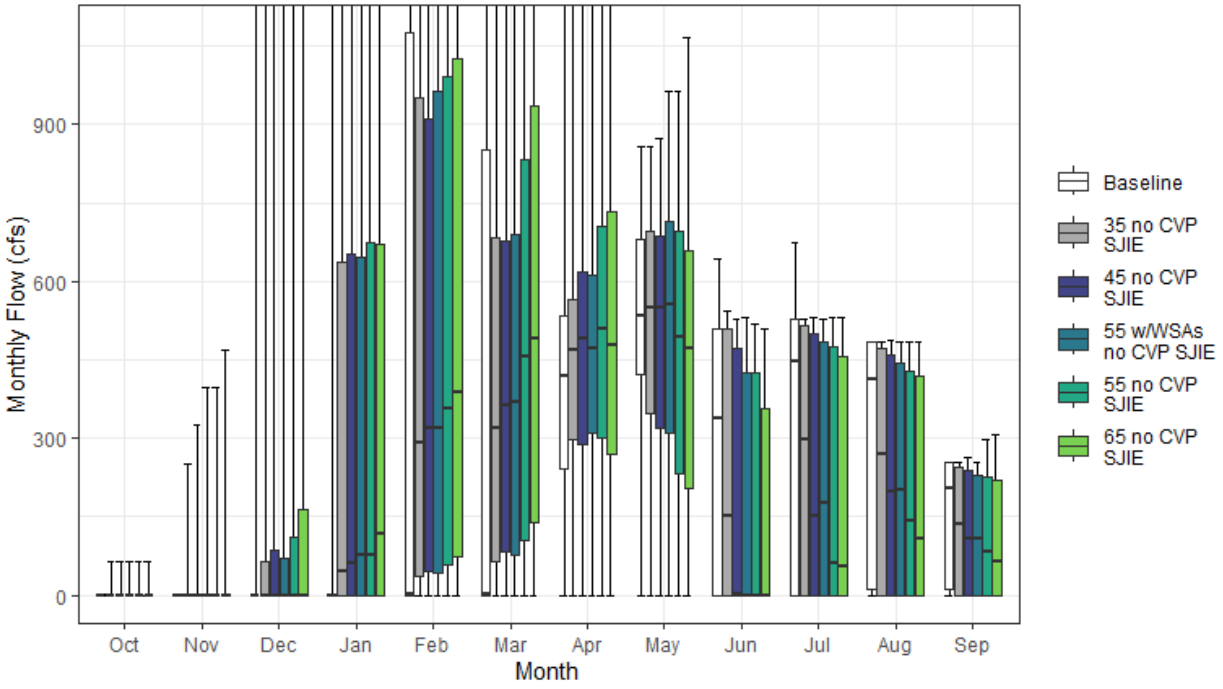

Figure H1a4-9. Cache Creek Streamflow below Clear Lake Monthly Boxplot (cfs)

Table H1a4-17. Cumulative Distribution of Monthly Flow (cfs) — Cache Creek below Clear Lake (SWRCB Clear Lake)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	0	82	132	0	0	0	0	17
25%	0	0	0	0	0	0	240	423	0	0	11	11	61
50%	0	0	0	0	1	1	418	534	340	448	413	206	165
75%	0	0	0	1	1,075	851	536	681	510	529	485	253	368
90%	1	1	1	1,644	3,366	2,150	1,288	795	510	529	485	253	563
100%	1	1	3,077	5,209	7,686	6,042	3,128	857	642	674	485	253	970
Mean	0	0	55	432	806	641	537	515	267	309	290	150	240
35 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	0	105	106	0	0	0	0	22
25%	0	0	0	0	36	65	299	348	0	0	0	0	68
50%	0	0	0	45	291	318	470	549	151	298	270	135	150
75%	0	0	64	638	952	685	564	696	510	517	473	245	366
90%	1	1	370	1,245	2,751	2,059	1,275	805	510	529	485	253	567
100%	63	252	2,755	5,209	7,387	6,042	3,128	858	543	529	485	254	967
Mean	1	5	129	478	824	680	565	507	217	249	239	126	241
45 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	1	118	109	0	0	0	0	19
25%	0	0	0	0	46	82	287	318	0	0	0	0	73
50%	0	0	0	63	321	363	491	550	1	152	200	109	141
75%	0	0	86	653	911	677	617	686	472	500	459	238	370
90%	1	1	394	1,150	2,644	2,059	1,127	823	510	529	485	253	569
100%	63	324	2,558	5,209	7,377	6,042	3,128	873	528	530	486	263	980
Mean	1	7	133	498	826	704	582	507	196	235	221	118	241
55 w/WSAs no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	1	103	103	0	0	0	0	17
25%	0	0	0	0	42	78	309	310	0	0	0	0	66
50%	0	0	0	77	321	370	472	555	0	176	202	109	149
75%	0	0	70	646	965	689	613	715	426	486	445	229	365
90%	1	1	387	1,331	2,641	2,059	1,142	849	510	529	485	253	572
100%	64	396	2,358	5,209	7,331	6,042	3,128	963	531	530	485	253	999
Mean	1	8	131	499	828	698	586	517	190	231	219	117	241
55 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	15	108	107	0	0	0	0	20
25%	0	0	0	0	59	106	301	232	0	0	0	0	68
50%	0	0	0	77	355	456	509	493	0	61	142	83	143
75%	0	1	112	673	990	834	705	695	426	475	429	227	370
90%	1	7	387	1,331	2,532	2,059	1,145	844	510	529	485	253	579
100%	64	396	2,359	5,209	7,331	6,042	3,128	962	517	530	485	297	1,014
Mean	1	11	138	520	838	733	603	482	178	214	204	108	241
65 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	1	28	99	101	0	0	0	0	24
25%	0	0	0	0	74	139	270	205	0	0	0	0	61
50%	0	0	1	116	389	491	477	473	0	54	109	66	145
75%	0	3	164	672	1,026	935	734	657	357	456	420	219	389
90%	2	20	397	1,246	2,627	2,058	1,250	828	505	524	480	251	596
100%	64	469	2,227	5,209	7,269	6,042	3,128	1,067	511	530	485	306	1,076
Mean	2	15	149	545	862	769	607	443	156	197	185	99	241

Table H1a4-18. Water Year Average of Monthly Flows (cfs) — Cache Creek below Clear Lake (SWRCB Clear Lake)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	0	0	0	0	1	0	146	216	1	17	16	8
D	0	0	0	0	0	6	385	523	74	117	139	77
BN	0	0	10	58	276	121	360	595	228	309	291	153
AN	0	0	0	71	912	701	596	537	453	496	455	237
W	0	0	173	1,359	2,119	1,754	944	607	502	530	479	241
All	0	0	55	432	806	641	537	515	267	309	290	150
35 no CVP SJIE												
C	0	0	0	48	64	35	140	186	0	0	0	0
D	0	0	21	37	129	192	403	488	32	45	57	35
BN	0	0	50	147	421	236	450	543	109	178	191	107
AN	0	1	59	292	865	632	644	575	349	418	395	206
W	3	15	355	1,315	1,976	1,682	952	644	485	510	467	240
All	1	5	129	478	824	680	565	507	217	249	239	126
45 no CVP SJIE												
C	0	0	0	54	73	50	136	173	0	0	0	0
D	0	0	23	39	165	245	410	476	26	46	47	31
BN	0	0	52	181	425	282	496	510	73	141	149	87
AN	0	2	58	335	900	672	667	598	282	375	351	188
W	3	22	366	1,339	1,937	1,669	966	671	469	502	460	235
All	1	7	133	498	826	704	582	507	196	235	221	118
55 w/WSAs no CVP SJIE												
C	0	0	0	48	65	36	132	173	0	0	0	0
D	0	1	21	40	162	229	392	465	25	47	53	34
BN	0	0	52	178	440	283	487	526	76	142	150	88
AN	0	1	62	339	939	670	678	604	266	362	342	182
W	3	25	359	1,343	1,926	1,668	996	700	455	494	452	232
All	1	8	131	499	828	698	586	517	190	231	219	117
55 no CVP SJIE												
C	1	0	1	60	79	66	118	137	0	0	0	0
D	0	1	24	43	197	295	386	403	24	43	43	26
BN	0	1	57	217	455	333	526	455	50	104	121	67
AN	0	4	63	372	962	737	731	614	237	312	312	169
W	3	32	375	1,366	1,907	1,662	1,020	687	441	482	440	228
All	1	11	138	520	838	733	603	482	178	214	204	108
65 no CVP SJIE												
C	1	1	3	69	85	80	107	133	0	0	2	1
D	1	6	29	53	221	343	362	325	16	29	30	19
BN	1	2	72	263	504	401	514	377	35	96	103	57
AN	0	8	64	380	1,033	839	745	555	181	275	259	146
W	4	42	396	1,406	1,905	1,655	1,058	692	410	459	419	219
All	2	15	149	545	862	769	607	443	156	197	185	99

H1a4.2.10Cache Creek above Yolo Bypass (SWRCB Cache Creek)

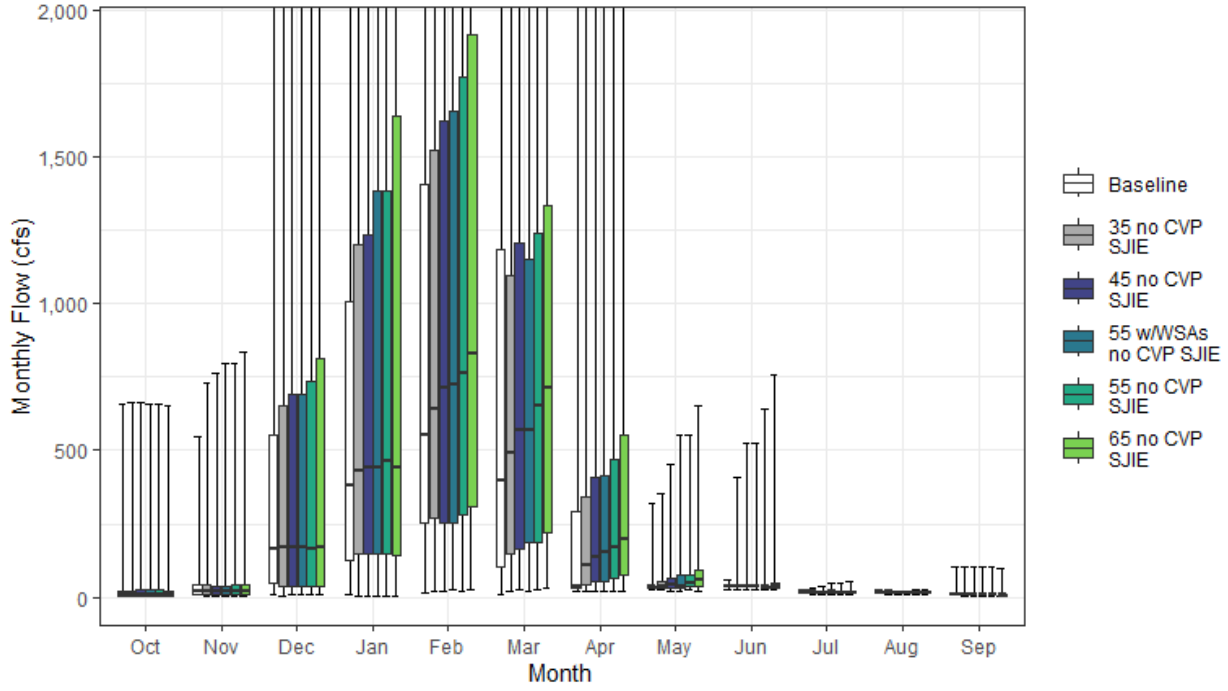

Figure H1a4-10. Cache Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a4-19. Cumulative Distribution of Monthly Flow (cfs) — Cache Creek above Yolo Bypass (SWRCB Cache Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3	8	9	11	12	10	20	24	27	15	16	7	16
10%	5	10	18	42	45	39	23	28	30	16	17	9	39
25%	6	12	46	123	251	105	31	33	36	17	18	9	65
50%	9	20	165	380	554	395	36	35	37	18	19	9	123
75%	23	40	550	1,004	1,404	1,184	293	37	39	19	20	10	366
90%	35	123	896	2,445	4,344	2,510	1,385	51	40	19	20	11	630
100%	656	548	4,636	6,823	11,644	8,616	3,815	320	60	26	23	103	1,247
Mean	26	47	381	947	1,389	946	367	47	37	18	18	11	252
35 no CVP SJIE													
0%	2	4	5	5	18	22	19	23	26	11	10	4	16
10%	4	8	18	53	63	62	31	29	29	15	14	7	44
25%	6	10	40	147	268	148	41	33	36	16	16	9	88
50%	10	19	169	428	642	494	107	37	37	18	18	9	161
75%	23	40	654	1,198	1,522	1,095	341	52	39	19	19	9	380
90%	37	123	1,147	2,291	3,929	2,473	1,323	156	41	20	20	10	623
100%	661	731	4,387	6,679	11,408	8,616	3,815	351	409	30	23	102	1,242
Mean	26	48	438	975	1,385	960	395	66	42	18	17	11	261
45 no CVP SJIE													
0%	2	5	7	5	23	26	19	23	26	10	9	3	17
10%	4	7	17	53	65	68	32	29	29	15	13	7	47
25%	6	10	38	147	255	166	51	34	35	17	16	8	94
50%	9	20	168	441	716	567	137	43	37	18	17	9	172
75%	24	40	690	1,235	1,623	1,205	411	64	39	19	19	10	388
90%	35	118	1,235	2,366	3,901	2,447	1,163	198	48	24	20	11	619
100%	661	764	4,234	6,669	10,968	8,616	3,815	452	526	38	21	103	1,261
Mean	26	48	454	994	1,388	972	416	80	45	18	17	11	266
55 w/WSAs no CVP SJIE													
0%	2	4	7	5	23	21	19	23	25	10	9	3	17
10%	4	7	18	53	65	65	31	29	29	15	13	7	47
25%	6	11	39	148	253	186	56	34	35	17	16	8	91
50%	9	19	168	440	722	567	152	38	37	18	18	9	167
75%	24	39	689	1,385	1,654	1,153	416	78	39	19	19	9	385
90%	35	118	1,258	2,513	3,868	2,417	1,138	216	57	26	20	10	622
100%	661	799	4,080	6,677	10,447	8,616	3,815	552	526	46	21	103	1,288
Mean	27	48	452	1,014	1,368	957	417	87	47	19	17	11	266
55 no CVP SJIE													
0%	2	4	7	5	22	27	19	24	26	9	8	3	17
10%	4	7	17	55	65	77	33	30	29	14	11	6	49
25%	6	10	37	147	281	184	63	35	34	15	15	7	101
50%	9	20	167	464	764	653	167	51	37	17	17	9	198
75%	23	40	735	1,385	1,770	1,241	469	78	39	19	19	10	417
90%	35	118	1,438	2,721	3,836	2,210	1,095	242	59	28	20	11	632
100%	656	798	4,081	6,660	10,446	8,616	3,815	552	643	46	24	103	1,290
Mean	27	49	483	1,073	1,421	982	445	95	48	19	16	10	278
65 no CVP SJIE													
0%	2	3	9	5	25	31	19	22	24	10	8	4	16
10%	4	6	17	57	69	86	36	32	29	12	10	5	52
25%	5	9	37	145	309	218	74	39	33	15	13	6	109
50%	9	18	168	444	830	716	198	58	37	17	16	9	212
75%	22	42	810	1,637	1,915	1,333	555	92	47	20	18	10	453
90%	35	135	1,700	3,204	3,784	2,440	1,243	286	70	33	20	12	661
100%	651	833	3,921	6,655	9,906	8,616	3,428	652	760	54	29	97	1,326
Mean	27	52	525	1,184	1,490	1,023	479	111	52	20	16	10	297

Table H1a4-20. Water Year Average of Monthly Flows (cfs) — Cache Creek above Yolo Bypass (SWRCB Cache Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	13	13	151	217	242	130	26	30	29	18	19	10
D	10	32	248	187	335	194	98	39	38	18	18	12
BN	28	23	185	408	737	377	103	36	38	18	18	14
AN	26	57	350	920	1,717	1,003	300	57	38	17	19	10
W	44	89	738	2,246	3,056	2,270	939	64	38	18	19	9
All	26	47	381	947	1,389	946	367	47	37	18	18	11
35 no CVP SJIE												
C	12	12	148	251	289	156	33	31	29	17	18	9
D	10	30	260	212	431	339	111	47	37	17	16	11
BN	28	21	210	471	838	462	203	46	57	17	16	13
AN	25	54	390	1,092	1,673	946	338	87	39	19	19	9
W	46	94	888	2,191	2,901	2,165	940	102	43	19	18	10
All	26	48	438	975	1,385	960	395	66	42	18	17	11
45 no CVP SJIE												
C	12	11	146	254	295	167	37	33	29	17	17	9
D	10	29	260	214	469	389	135	53	37	17	15	11
BN	27	20	224	497	856	498	259	52	63	17	15	13
AN	25	54	386	1,167	1,735	978	357	110	41	21	19	9
W	46	96	934	2,205	2,842	2,128	947	130	48	20	18	10
All	26	48	454	994	1,388	972	416	80	45	18	17	11
55 w/WSAs no CVP SJIE												
C	12	12	146	250	288	156	33	31	29	17	17	9
D	10	30	259	214	456	376	124	51	37	17	15	11
BN	27	21	223	497	861	498	242	49	64	17	15	13
AN	24	53	389	1,180	1,698	964	363	115	43	22	19	9
W	47	96	927	2,269	2,802	2,096	968	156	54	21	18	10
All	27	48	452	1,014	1,368	957	417	87	47	19	17	11
55 no CVP SJIE												
C	13	11	146	270	317	180	42	34	29	17	17	9
D	10	31	268	228	516	449	162	63	36	17	14	10
BN	27	19	244	536	939	554	317	60	70	17	15	13
AN	24	54	407	1,341	1,845	1,014	393	134	44	22	18	9
W	47	101	1,003	2,354	2,809	2,060	970	158	55	21	18	10
All	27	49	483	1,073	1,421	982	445	95	48	19	16	10
65 no CVP SJIE												
C	12	9	143	285	335	194	48	37	29	18	17	9
D	10	33	282	243	569	519	191	72	38	17	14	10
BN	27	20	269	593	1,056	617	374	67	77	18	14	12
AN	24	56	451	1,551	2,033	1,127	465	159	48	23	16	8
W	47	109	1,100	2,581	2,839	2,051	992	187	62	22	17	11
All	27	52	525	1,184	1,490	1,023	479	111	52	20	16	10

H1a4.2.11 Calaveras River below New Hogan Reservoir (SWRCB New Hogan)

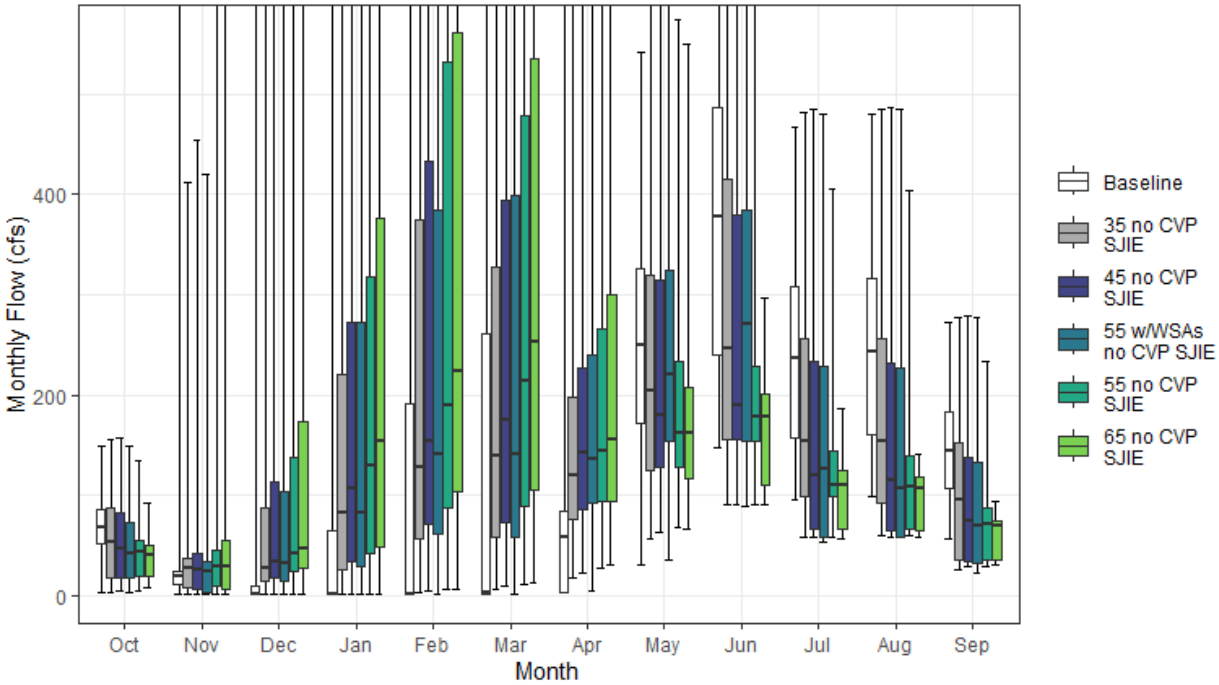

Figure H1a4-11. Calaveras River Streamflow below New Hogan Reservoir Monthly Boxplot (cfs)

Table H1a4-21. Cumulative Distribution of Monthly Flow (cfs) — Calaveras River below New Hogan Reservoir (SWRCB New Hogan)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3	2	1	1	1	2	2	30	147	95	98	56	36
10%	35	2	1	1	1	2	2	121	175	115	116	78	48
25%	51	11	1	1	1	2	3	171	240	158	160	107	63
50%	68	19	1	1	2	2	58	250	377	237	243	144	94
75%	85	24	8	65	192	262	83	326	486	309	315	184	207
90%	113	31	141	787	1,267	1,116	104	384	561	362	361	234	294
100%	149	862	1,411	3,005	3,679	2,697	1,370	542	749	467	479	273	539
Mean	71	36	83	209	327	278	85	250	379	242	245	149	142
35 no CVP SJIE													
0%	3	1	1	1	3	7	17	57	91	58	59	26	23
10%	16	3	6	15	21	33	60	101	95	60	60	33	37
25%	18	7	14	26	56	57	76	124	155	99	93	35	58
50%	54	27	26	82	128	139	119	203	247	154	154	95	93
75%	88	36	88	221	374	327	198	320	415	256	256	152	213
90%	103	60	217	646	1,189	1,075	300	371	525	324	328	187	305
100%	156	412	1,348	3,005	3,679	2,697	1,370	590	782	481	486	277	550
Mean	58	35	121	260	391	336	169	225	292	183	181	105	142
45 no CVP SJIE													
0%	4	1	1	1	4	9	22	62	91	58	59	28	24
10%	16	4	8	19	27	42	46	78	94	59	60	33	39
25%	18	5	17	33	71	73	86	128	155	66	64	34	59
50%	47	26	34	106	154	175	142	180	189	120	115	74	91
75%	83	42	113	272	433	395	227	315	379	233	232	138	209
90%	100	76	279	766	1,046	904	370	381	495	305	307	175	300
100%	158	455	1,325	3,005	3,679	2,697	1,370	635	790	486	488	279	549
Mean	53	39	131	279	408	344	197	223	270	166	162	94	142
55 w/WSAs no CVP SJIE													
0%	2	1	1	1	1	1	4	35	89	54	57	22	21
10%	14	2	5	14	21	29	71	89	91	57	59	32	36
25%	17	3	14	29	61	58	93	154	154	57	59	32	55
50%	41	24	32	82	141	141	135	221	271	125	107	69	92
75%	73	34	103	273	385	399	240	324	385	229	227	132	209
90%	89	52	279	681	1,101	1,004	393	386	506	312	295	172	304
100%	149	420	1,348	3,005	3,679	2,697	1,505	636	798	480	485	277	547
Mean	47	31	126	275	392	343	211	244	288	163	154	88	142
55 no CVP SJIE													
0%	5	1	1	1	5	11	28	67	91	58	59	28	25
10%	16	4	10	23	33	50	56	81	97	62	60	33	45
25%	19	10	24	41	87	89	94	128	155	99	65	36	67
50%	44	29	41	130	189	214	144	163	178	110	109	71	98
75%	55	46	138	319	533	479	266	233	228	144	139	87	200
90%	73	92	388	917	1,183	987	447	303	335	210	202	120	289
100%	134	695	1,538	3,005	3,653	2,697	1,505	574	665	406	403	233	551
Mean	44	49	154	325	461	379	226	193	208	129	121	73	142
65 no CVP SJIE													
0%	7	2	1	1	6	13	31	67	91	57	58	30	26
10%	16	4	12	27	39	58	54	79	96	59	60	33	43
25%	18	6	27	49	103	105	93	117	111	66	64	35	66
50%	39	29	47	153	223	253	155	162	179	110	107	69	110
75%	50	55	174	377	561	535	299	208	201	125	118	74	196
90%	54	130	403	927	1,104	898	504	260	222	139	124	83	268
100%	91	1,072	1,634	3,005	2,982	2,697	1,778	550	296	186	140	94	563
Mean	36	85	174	346	477	406	256	173	167	102	95	57	142

Table H1a4-22. Water Year Average of Monthly Flows (cfs) — Calaveras River below New Hogan Reservoir (SWRCB New Hogan)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	61	19	7	2	2	7	62	134	183	121	122	84
D	71	20	13	1	9	15	71	209	285	183	186	117
BN	76	17	33	28	171	102	41	264	376	238	243	143
AN	71	16	87	157	383	253	40	307	443	279	285	167
W	74	77	206	606	811	736	152	312	528	337	337	204
All	71	36	83	209	327	278	85	250	379	242	245	149
35 no CVP SJIE												
C	36	11	16	31	63	49	52	94	109	63	64	34
D	60	24	43	48	129	112	95	142	177	106	103	58
BN	56	26	64	106	289	196	144	197	245	155	154	87
AN	50	49	135	304	435	318	153	273	342	213	215	128
W	72	56	264	617	803	750	306	356	483	311	306	180
All	58	35	121	260	391	336	169	225	292	183	181	105
45 no CVP SJIE												
C	31	10	20	40	81	61	53	89	108	61	62	34
D	55	26	55	62	166	145	109	137	155	90	85	49
BN	52	30	79	128	326	226	169	186	221	133	127	70
AN	46	59	131	361	441	335	187	257	304	189	187	106
W	65	63	277	629	798	719	358	366	460	290	285	168
All	53	39	131	279	408	344	197	223	270	166	162	94
55 w/WSAs no CVP SJIE												
C	27	8	15	32	63	32	63	102	97	57	58	32
D	47	22	40	57	134	113	128	236	269	94	60	32
BN	53	24	67	117	303	210	151	183	223	141	135	78
AN	38	46	141	286	451	354	181	267	323	201	198	116
W	56	48	279	662	791	759	401	355	431	269	267	155
All	47	31	126	275	392	343	211	244	288	163	154	88
55 no CVP SJIE												
C	29	11	25	49	99	75	59	91	115	72	65	35
D	48	29	68	76	203	177	123	135	149	93	87	52
BN	44	35	97	150	369	270	194	162	174	109	98	60
AN	37	70	122	449	523	396	215	202	209	130	123	78
W	51	84	336	717	877	752	415	306	323	198	190	115
All	44	49	154	325	461	379	226	193	208	129	121	73
65 no CVP SJIE												
C	26	11	29	58	117	87	60	90	109	71	66	35
D	37	83	83	89	240	208	132	128	140	84	83	50
BN	33	77	114	178	420	294	221	152	156	97	92	52
AN	33	82	140	476	561	462	248	195	187	110	102	63
W	43	132	370	743	844	770	478	255	219	133	117	74
All	36	85	174	346	477	406	256	173	167	102	95	57

H1a4.2.12 Calaveras River above Delta (SWRCB Calaveras River)

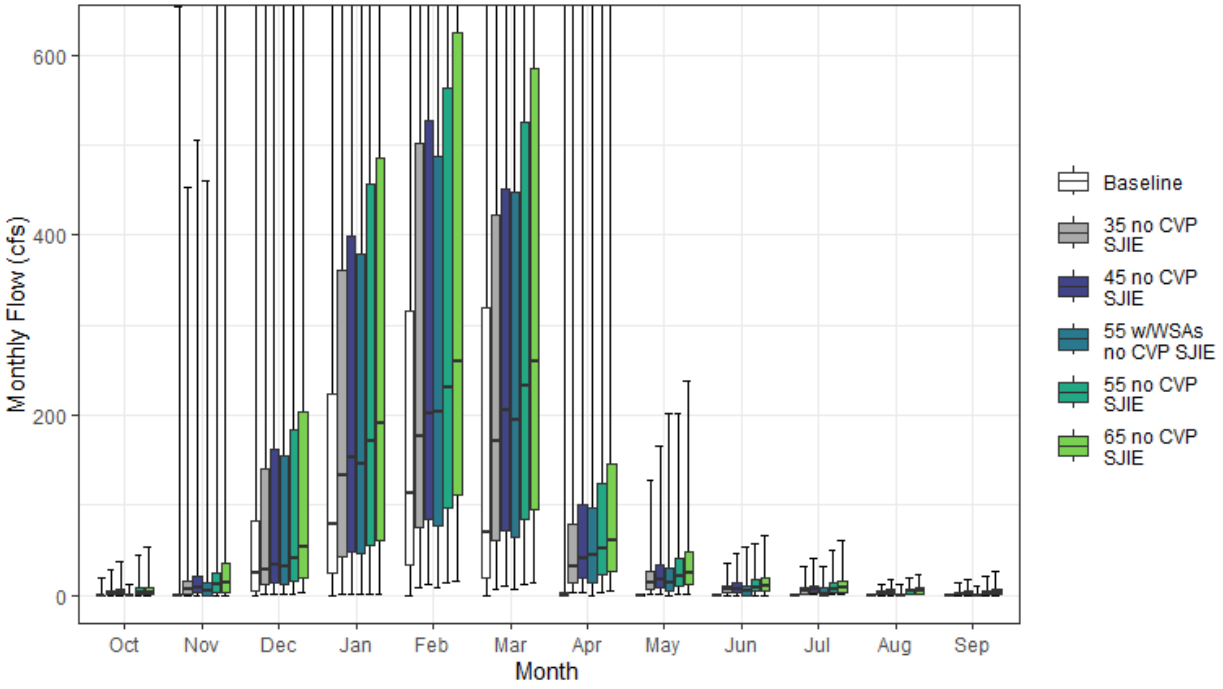

Figure H1a4-12. Calaveras River Streamflow above Delta Monthly Boxplot (cfs)

Table H1a4-23. Cumulative Distribution of Monthly Flow (cfs) — Calaveras River above Delta (SWRCB Calaveras River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	0	0	0	0	0	0	0	0	0	0	0	1
10%	0	0	0	12	9	0	0	0	0	0	0	0	6
25%	0	0	6	25	33	19	0	0	0	0	0	0	12
50%	0	0	24	78	113	70	0	0	0	0	0	0	22
75%	0	0	83	223	317	320	4	0	0	0	0	0	121
90%	0	14	236	862	1,303	1,185	36	0	0	0	0	0	191
100%	19	654	1,371	2,882	3,533	2,620	884	0	0	1	1	1	416
Mean	0	21	117	284	400	314	31	0	0	0	0	0	70
35 no CVP SJIE													
0%	0	0	1	1	9	7	2	0	0	0	0	0	3
10%	0	0	6	25	32	27	9	4	1	1	1	0	15
25%	1	2	11	44	75	61	14	7	3	2	1	0	26
50%	2	7	29	134	177	171	32	14	6	4	3	2	50
75%	5	16	140	361	502	422	79	26	11	8	5	4	127
90%	11	49	321	858	1,209	1,134	154	40	15	14	7	6	206
100%	28	453	1,288	2,878	3,528	2,620	883	129	36	32	13	14	431
Mean	4	24	143	323	449	361	76	20	8	6	3	3	85
45 no CVP SJIE													
0%	0	0	2	1	11	10	3	1	0	0	0	0	4
10%	0	1	8	27	36	35	11	5	2	1	1	0	18
25%	1	2	14	49	84	73	19	8	3	3	1	1	31
50%	3	9	34	152	201	205	42	18	7	6	4	2	58
75%	6	20	163	399	528	452	101	34	14	11	6	5	129
90%	14	63	367	915	1,151	992	196	51	20	18	9	8	204
100%	37	506	1,252	2,877	3,528	2,620	883	165	46	42	17	18	434
Mean	5	29	150	338	463	366	92	25	10	8	4	3	89
55 w/WSAs no CVP SJIE													
0%	0	0	1	1	9	7	0	0	0	0	0	0	2
10%	0	0	7	27	31	26	9	0	0	0	0	0	14
25%	0	0	12	47	77	65	14	5	0	0	0	0	25
50%	0	5	32	146	203	195	44	14	5	0	0	0	48
75%	0	15	154	379	487	449	97	29	11	8	2	0	128
90%	0	35	352	893	1,168	1,040	221	56	15	14	6	1	205
100%	12	460	1,269	2,876	3,528	2,620	949	202	53	33	13	11	437
Mean	0	21	146	335	450	366	94	24	7	5	2	1	86
55 no CVP SJIE													
0%	0	0	2	1	14	12	4	1	0	1	1	0	5
10%	0	1	10	31	38	42	14	6	2	1	1	0	21
25%	1	3	16	55	98	84	23	10	4	3	1	1	36
50%	3	11	40	172	231	233	51	21	9	7	4	2	68
75%	8	25	185	456	564	525	124	41	17	13	7	6	144
90%	17	75	431	1,041	1,274	1,062	238	63	24	22	11	10	205
100%	45	670	1,457	2,874	3,507	2,620	947	202	57	51	20	22	456
Mean	6	36	167	374	505	394	108	31	12	9	5	4	98
65 no CVP SJIE													
0%	0	0	2	1	16	14	4	1	0	1	0	0	5
10%	0	1	11	35	44	50	16	7	2	1	1	0	23
25%	1	3	19	61	112	95	27	12	5	3	1	1	42
50%	4	14	53	190	259	259	60	25	10	8	5	3	78
75%	9	35	204	486	625	585	146	49	20	15	9	7	156
90%	21	115	457	1,048	1,233	975	280	74	28	25	13	11	212
100%	53	959	1,528	2,872	3,069	2,620	1,081	239	67	60	24	26	489
Mean	7	66	182	390	517	415	126	37	14	11	6	5	106

Table H1a4-24. Water Year Average of Monthly Flows (cfs) — Calaveras River above Delta (SWRCB Calaveras River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	1	1	22	41	58	28	0	0	0	0	0	0
D	0	2	42	50	81	62	1	0	0	0	0	0
BN	0	2	63	106	278	160	9	0	0	0	0	0
AN	0	14	125	302	476	324	7	0	0	0	0	0
W	0	62	255	693	864	745	93	0	0	0	0	0
All	0	21	117	284	400	314	31	0	0	0	0	0
35 no CVP SJIE												
C	3	3	29	63	107	65	10	5	2	3	2	1
D	4	10	61	84	177	140	26	8	4	3	3	2
BN	3	14	84	166	370	234	58	14	6	5	3	3
AN	3	44	158	417	516	374	65	22	8	6	3	3
W	6	45	294	698	855	755	165	39	15	11	5	4
All	4	24	143	323	449	361	76	20	8	6	3	3
45 no CVP SJIE												
C	4	4	32	70	121	76	13	6	3	4	3	2
D	5	12	70	96	207	165	33	11	5	3	4	2
BN	3	17	95	183	399	257	73	18	8	6	3	3
AN	3	52	155	462	521	388	82	29	11	8	4	4
W	7	52	303	707	850	730	192	50	19	14	6	4
All	5	29	150	338	463	366	92	25	10	8	4	3
55 w/WSAs no CVP SJIE												
C	1	2	30	63	105	49	8	1	0	0	0	0
D	0	8	57	91	180	140	26	7	1	0	0	0
BN	0	10	86	174	380	244	64	14	5	3	0	0
AN	0	42	161	401	529	403	80	26	8	5	3	0
W	1	39	304	734	845	761	214	53	16	11	5	2
All	0	21	146	335	450	366	94	24	7	5	2	1
55 no CVP SJIE												
C	5	5	35	77	135	87	16	7	3	4	4	2
D	6	15	79	106	236	190	40	13	5	4	5	3
BN	4	21	108	200	433	292	89	22	9	7	4	4
AN	4	61	147	532	586	437	99	35	13	9	5	4
W	9	69	346	777	913	755	223	61	23	17	8	5
All	6	36	167	374	505	394	108	31	12	9	5	4
65 no CVP SJIE												
C	6	6	38	84	150	98	18	9	4	5	4	3
D	7	59	91	117	265	215	48	16	6	5	5	3
BN	5	56	122	221	474	310	104	26	11	8	5	5
AN	5	72	160	553	617	490	116	41	15	11	6	5
W	10	108	371	797	886	768	258	72	27	21	9	6
All	7	66	182	390	517	415	126	37	14	11	6	5

H1a4.2.13 Clear Creek above Confluence with Sacramento River (SWRCB Clear Creek)

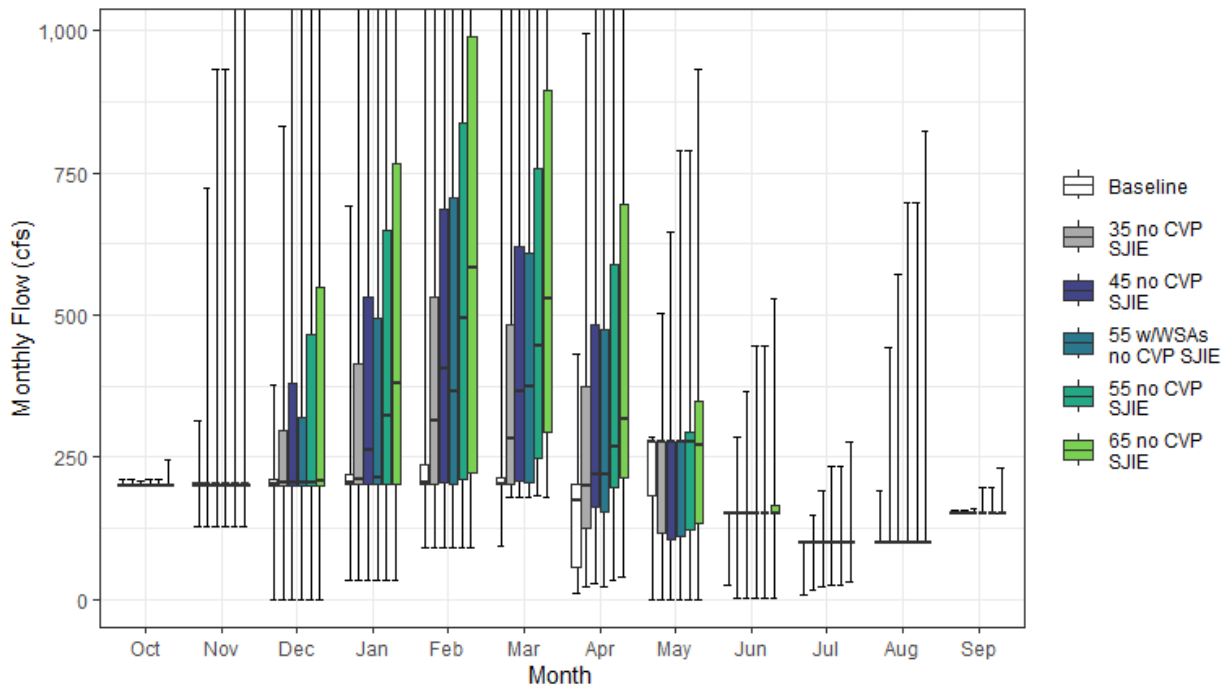

Figure H1a4-13. Clear Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-25. Cumulative Distribution of Monthly Flow (cfs) — Clear Creek above Confluence with Sacramento River (SWRCB Clear Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	200	129	0	32	92	93	9	0	24	7	100	150	86
10%	200	194	96	200	200	200	30	27	86	100	100	150	102
25%	200	200	200	202	201	201	57	183	150	101	101	150	116
50%	201	201	204	206	206	203	175	278	151	101	101	151	129
75%	202	202	210	219	236	212	202	278	151	101	101	151	142
90%	203	204	227	305	386	314	217	278	151	101	101	151	152
100%	210	314	378	693	1,572	1,341	432	284	152	102	191	156	232
Mean	201	198	192	228	262	238	143	220	138	98	102	151	131
35 no CVP SJIE													
0%	200	129	0	32	92	181	21	0	1	17	100	150	87
10%	200	194	84	200	200	201	68	46	67	100	100	150	109
25%	200	200	200	202	202	202	126	116	150	100	100	150	129
50%	201	201	204	211	314	284	200	278	150	101	101	151	155
75%	202	202	296	413	533	482	374	278	151	101	101	151	197
90%	203	212	490	669	847	718	500	279	152	101	101	151	233
100%	210	724	833	1,511	2,023	1,960	994	502	284	149	443	156	380
Mean	201	211	254	346	427	383	260	219	139	99	105	151	168
45 no CVP SJIE													
0%	200	129	0	32	92	181	27	0	1	21	100	150	88
10%	200	194	84	200	200	201	87	59	69	100	100	150	114
25%	200	200	200	202	204	207	161	104	150	100	100	150	133
50%	201	201	206	263	404	365	220	278	150	101	101	151	173
75%	202	203	381	531	685	620	481	278	151	101	101	151	232
90%	203	269	630	860	1,089	923	642	325	179	101	101	151	282
100%	209	931	1,071	1,943	2,601	2,520	1,278	645	365	191	571	161	478
Mean	201	223	296	419	529	474	331	227	143	101	107	151	192
55 w/WSAs no CVP SJIE													
0%	200	129	0	32	92	181	21	0	1	26	100	150	87
10%	200	194	84	200	200	201	69	46	69	100	100	150	110
25%	200	200	200	202	203	204	154	112	150	101	101	150	133
50%	201	201	206	213	366	374	220	278	150	101	101	151	171
75%	202	203	319	495	706	610	473	279	152	101	101	151	236
90%	203	295	664	1,021	1,020	938	724	360	190	101	101	152	296
100%	209	931	1,310	1,834	2,601	3,080	1,562	788	446	234	697	196	576
Mean	201	226	301	430	537	496	349	237	149	103	110	151	198
55 no CVP SJIE													
0%	200	129	0	32	92	181	33	0	1	26	100	150	89
10%	200	194	84	200	201	201	106	66	66	100	100	150	119
25%	200	200	200	203	211	248	197	123	150	100	100	150	143
50%	200	201	206	322	494	446	269	278	150	101	101	150	190
75%	202	203	465	649	837	758	588	294	152	101	101	151	271
90%	203	329	770	1,051	1,332	1,128	785	397	218	114	101	152	331
100%	210	1,138	1,310	2,374	3,179	3,080	1,562	788	446	234	697	196	576
Mean	201	235	342	493	635	569	402	245	150	105	110	151	218
65 no CVP SJIE													
0%	200	129	0	32	92	181	39	0	1	30	100	150	93
10%	200	194	84	200	200	201	126	78	75	100	100	150	125
25%	200	200	200	204	223	293	213	135	150	100	100	150	157
50%	200	201	207	381	584	527	318	270	150	100	100	150	209
75%	202	204	550	767	989	895	695	348	164	101	101	151	313
90%	203	389	909	1,242	1,574	1,333	928	468	258	135	110	152	380
100%	245	1,344	1,547	2,806	3,757	3,640	1,846	932	527	276	824	231	675
Mean	202	249	388	570	742	666	474	272	160	110	114	152	246

Table H1a4-26. Water Year Average of Monthly Flows (cfs) — Clear Creek above Confluence with Sacramento River (SWRCB Clear Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	201	190	158	185	191	196	65	170	137	101	101	151
D	201	198	172	202	216	212	94	195	143	101	101	151
BN	201	192	161	200	218	210	132	194	129	95	101	151
AN	202	201	214	248	277	235	192	272	142	101	101	151
W	202	206	236	279	356	299	208	261	139	95	104	151
All	201	198	192	228	262	238	143	220	138	98	102	151
35 no CVP SJIE												
C	201	190	173	187	238	222	98	170	126	101	100	151
D	201	203	188	221	297	308	160	177	143	101	101	151
BN	201	200	182	278	338	284	223	172	127	97	101	151
AN	201	208	258	441	574	466	299	287	152	101	103	151
W	202	237	389	527	619	553	427	278	144	97	113	151
All	201	211	254	346	427	383	260	219	139	99	105	151
45 no CVP SJIE												
C	201	190	187	197	269	238	120	168	121	100	100	151
D	201	209	204	235	347	379	203	174	142	100	101	151
BN	201	205	198	332	409	344	283	169	128	99	101	151
AN	202	220	296	561	737	597	380	314	166	101	106	151
W	202	262	485	669	793	703	546	301	157	103	119	151
All	201	223	296	419	529	474	331	227	143	101	107	151
55 w/WSAs no CVP SJIE												
C	201	190	173	187	239	222	100	168	125	101	100	151
D	201	216	198	235	324	355	182	175	143	101	101	151
BN	201	211	198	318	405	338	269	169	128	99	101	151
AN	201	226	290	523	710	598	396	314	170	101	109	151
W	202	263	514	736	866	805	638	330	171	109	127	152
All	201	226	301	430	537	496	349	237	149	103	110	151
55 no CVP SJIE												
C	201	190	201	211	304	263	145	173	117	102	100	150
D	201	218	226	251	401	451	248	177	143	101	100	151
BN	201	211	215	385	487	410	344	179	130	102	103	151
AN	202	234	339	682	900	729	460	344	180	103	110	151
W	202	288	583	813	969	856	666	336	174	111	127	152
All	201	235	342	493	635	569	402	245	150	105	110	151
65 no CVP SJIE												
C	201	190	215	228	341	291	169	184	120	103	101	150
D	201	229	247	273	458	525	293	186	142	102	100	151
BN	201	218	234	442	568	479	406	195	136	106	104	150
AN	205	249	386	803	1,064	862	541	377	196	109	115	154
W	202	316	683	958	1,145	1,010	786	388	197	121	136	153
All	202	249	388	570	742	666	474	272	160	110	114	152

H1a4.2.14 Cosumnes River above Confluence with Delta (SWRCB Cosumnes River)

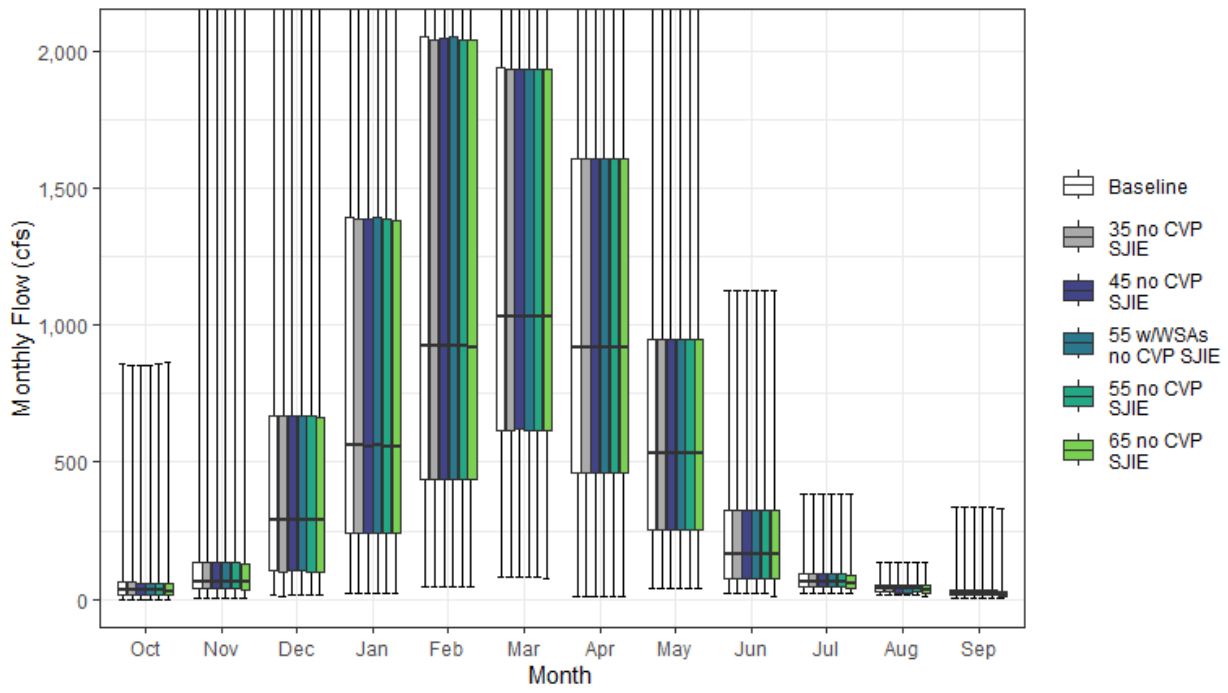

Figure H1a4-14. Cosumnes River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a4-27. Cumulative Distribution of Monthly Flow (cfs) — Cosumnes River above Confluence with Delta (SWRCB Cosumnes River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	1	3	13	22	48	79	10	39	21	24	18	5	23
10%	11	23	59	136	210	337	241	96	51	31	22	14	121
25%	19	38	103	242	438	618	463	252	77	44	26	18	188
50%	33	65	291	565	923	1,029	921	535	165	62	38	24	366
75%	62	135	671	1,392	2,052	1,937	1,609	946	325	91	50	35	617
90%	134	325	1,888	3,219	3,749	3,057	2,212	1,426	582	141	64	48	874
100%	862	2,873	4,651	8,844	9,471	6,484	5,808	2,404	1,126	386	136	337	1,531
Mean	60	168	669	1,197	1,519	1,457	1,152	674	249	81	41	32	437
35 no CVP SJIE													
0%	1	5	13	21	46	80	10	39	20	24	18	5	22
10%	10	23	59	134	210	336	241	95	50	30	22	14	121
25%	18	38	102	242	438	619	463	252	77	44	25	18	188
50%	35	65	288	560	923	1,029	921	535	164	62	38	24	365
75%	61	135	671	1,388	2,043	1,932	1,609	946	325	91	50	35	616
90%	134	325	1,888	3,219	3,749	3,057	2,212	1,426	582	141	64	48	873
100%	855	2,866	4,645	8,844	9,470	6,484	5,808	2,404	1,126	386	136	337	1,531
Mean	60	168	667	1,196	1,518	1,457	1,151	674	249	81	41	32	437
45 no CVP SJIE													
0%	0	5	13	21	46	80	10	39	20	24	18	5	22
10%	10	24	59	134	210	337	241	95	50	30	22	13	121
25%	18	38	102	242	438	619	463	252	77	44	25	17	188
50%	35	65	287	556	923	1,029	921	535	164	62	38	24	365
75%	60	135	671	1,386	2,044	1,936	1,609	946	325	91	50	35	616
90%	134	324	1,887	3,219	3,749	3,058	2,212	1,426	582	141	64	48	873
100%	855	2,865	4,649	8,844	9,470	6,484	5,808	2,404	1,126	386	136	337	1,531
Mean	60	168	667	1,196	1,518	1,457	1,151	674	249	81	41	32	437
55 w/WSAs no CVP SJIE													
0%	1	5	13	21	46	80	10	39	21	24	15	5	22
10%	10	24	59	137	210	337	241	96	51	31	22	14	121
25%	17	37	103	242	438	618	463	252	77	44	25	16	188
50%	34	65	291	565	923	1,028	921	535	165	62	38	24	365
75%	60	135	671	1,392	2,051	1,936	1,609	946	325	91	50	35	616
90%	134	324	1,887	3,219	3,749	3,058	2,212	1,426	582	141	64	48	873
100%	854	2,866	4,651	8,844	9,471	6,484	5,808	2,404	1,126	386	136	337	1,531
Mean	60	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32	437
55 no CVP SJIE													
0%	0	5	13	21	46	80	10	38	20	24	18	5	22
10%	10	24	59	134	210	336	241	95	49	30	22	12	120
25%	16	38	102	242	438	617	463	252	76	44	25	15	188
50%	32	64	287	556	923	1,029	921	535	164	62	37	23	364
75%	59	135	671	1,386	2,041	1,932	1,609	946	325	91	50	35	615
90%	134	324	1,887	3,219	3,749	3,057	2,212	1,426	582	141	64	48	873
100%	862	2,865	4,645	8,844	9,470	6,484	5,808	2,404	1,126	386	136	335	1,531
Mean	59	167	667	1,195	1,518	1,456	1,151	674	249	81	41	31	437
65 no CVP SJIE													
0%	0	5	13	21	45	78	10	38	12	19	12	5	21
10%	8	24	59	133	209	336	240	95	46	28	15	10	118
25%	16	34	101	241	437	617	463	252	76	41	22	13	185
50%	26	61	286	556	920	1,028	921	534	164	60	36	18	364
75%	56	130	664	1,380	2,038	1,935	1,609	945	324	90	50	28	615
90%	130	319	1,888	3,219	3,744	3,054	2,212	1,426	582	140	64	42	872
100%	864	2,866	4,643	8,843	9,470	6,484	5,807	2,403	1,126	386	136	332	1,529
Mean	56	165	664	1,193	1,516	1,456	1,151	673	247	79	39	27	435

Table H1a4-28. Water Year Average of Monthly Flows (cfs) — Cosumnes River above Confluence with Delta (SWRCB Cosumnes River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	44	38	170	232	415	386	235	157	73	36	25	15
D	42	91	312	345	704	826	645	368	105	45	30	38
BN	41	104	412	648	1,255	1,222	1,217	594	210	66	36	28
AN	56	318	597	1,745	1,921	1,906	1,165	747	235	79	41	28
W	95	273	1,388	2,467	2,713	2,461	1,966	1,196	479	142	60	41
All	60	168	669	1,197	1,519	1,457	1,152	674	249	81	41	32
35 no CVP SJIE												
C	43	39	167	230	413	387	235	156	73	35	25	15
D	42	91	310	344	703	825	644	368	104	44	30	38
BN	41	104	411	646	1,253	1,221	1,217	594	210	66	36	28
AN	56	317	595	1,743	1,920	1,906	1,165	746	235	79	41	28
W	95	273	1,387	2,466	2,713	2,461	1,966	1,196	479	142	60	41
All	60	168	667	1,196	1,518	1,457	1,151	674	249	81	41	32
45 no CVP SJIE												
C	43	39	167	230	413	386	234	156	73	35	25	15
D	42	91	310	344	703	825	645	367	104	44	30	37
BN	41	104	410	645	1,253	1,220	1,217	594	210	66	36	28
AN	56	317	595	1,743	1,920	1,906	1,165	746	235	79	41	28
W	95	273	1,387	2,466	2,713	2,461	1,966	1,196	479	142	60	41
All	60	168	667	1,196	1,518	1,457	1,151	674	249	81	41	32
55 w/WSAs no CVP SJIE												
C	43	38	168	230	414	387	235	156	73	36	24	15
D	42	91	311	344	703	825	644	368	105	44	30	37
BN	41	104	411	647	1,254	1,221	1,217	594	210	66	36	28
AN	56	317	595	1,744	1,921	1,906	1,165	746	235	79	41	28
W	95	272	1,388	2,466	2,713	2,461	1,966	1,196	479	142	60	41
All	60	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32
55 no CVP SJIE												
C	43	38	167	229	412	386	234	156	72	35	24	14
D	41	91	309	343	702	824	644	367	104	44	30	36
BN	40	103	410	644	1,252	1,220	1,217	594	209	66	36	27
AN	55	317	593	1,741	1,920	1,905	1,165	747	235	79	41	28
W	95	272	1,387	2,466	2,712	2,461	1,965	1,196	479	142	60	41
All	59	167	667	1,195	1,518	1,456	1,151	674	249	81	41	31
65 no CVP SJIE												
C	42	37	165	228	410	385	234	155	66	28	18	13
D	38	89	307	342	700	824	644	367	103	43	28	33
BN	38	101	409	643	1,250	1,219	1,216	594	208	64	35	22
AN	51	315	592	1,738	1,918	1,904	1,165	747	235	78	40	22
W	90	269	1,384	2,464	2,711	2,461	1,965	1,196	478	142	60	35
All	56	165	664	1,193	1,516	1,456	1,151	673	247	79	39	27

H1a4.2.15 Cottonwood Creek above Confluence with Sacramento River (SWRCB Cottonwood Creek)

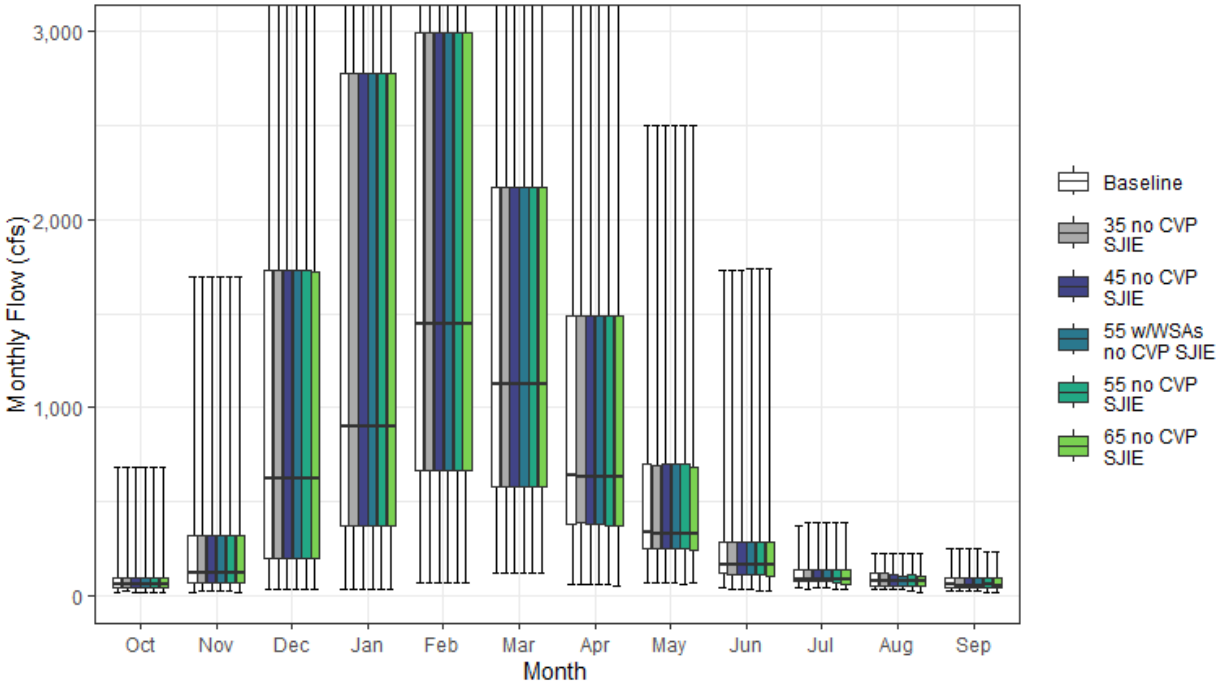

Figure H1a4-15. Cottonwood Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-29. Cumulative Distribution of Monthly Flow (cfs) — Cottonwood Creek above Confluence with Sacramento River (SWRCB Cottonwood Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	14	17	34	28	63	116	54	66	39	40	36	20	51
10%	27	47	79	197	265	296	202	151	80	53	46	32	146
25%	41	70	192	370	666	577	380	245	115	72	52	40	251
50%	59	122	617	899	1,444	1,123	635	337	162	87	75	54	423
75%	94	315	1,726	2,776	2,994	2,173	1,491	699	280	135	117	92	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	976	410	184	135	110	1,062
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,499	1,733	367	221	250	1,896
Mean	89	270	1,186	1,835	2,180	1,653	980	521	233	110	84	69	551
35 no CVP SJIE													
0%	19	21	34	28	63	116	54	66	32	36	32	20	49
10%	29	47	79	197	265	296	202	151	80	53	46	32	146
25%	41	70	192	370	666	577	387	245	113	72	51	39	251
50%	62	121	617	899	1,444	1,123	627	328	162	87	75	47	424
75%	92	315	1,726	2,776	2,994	2,173	1,491	690	285	135	118	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	976	411	184	138	110	1,062
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,499	1,733	391	221	250	1,895
Mean	89	270	1,186	1,835	2,180	1,653	980	520	233	110	84	69	551
45 no CVP SJIE													
0%	13	22	34	28	63	116	54	62	29	41	28	20	50
10%	27	47	79	197	265	296	202	151	78	53	46	31	146
25%	41	70	192	370	666	577	382	245	112	72	51	39	251
50%	61	121	617	899	1,444	1,123	627	328	162	87	75	47	424
75%	89	315	1,726	2,776	2,994	2,173	1,491	698	280	135	111	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	984	394	184	133	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,733	391	221	250	1,897
Mean	89	270	1,186	1,835	2,180	1,653	979	520	231	110	83	69	551
55 w/WSAs no CVP SJIE													
0%	15	20	34	28	63	116	54	65	32	41	34	20	50
10%	27	47	79	197	265	296	202	151	80	53	46	32	146
25%	41	70	192	370	666	577	378	245	114	72	52	39	251
50%	59	122	617	899	1,444	1,123	627	328	162	87	75	47	423
75%	88	315	1,726	2,776	2,994	2,173	1,491	699	280	135	104	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	984	410	178	130	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,738	391	221	250	1,896
Mean	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69	551
55 no CVP SJIE													
0%	14	21	34	28	64	116	54	61	27	33	23	17	48
10%	28	47	79	197	264	296	202	149	79	51	45	30	146
25%	40	70	192	369	666	577	373	245	112	64	51	39	251
50%	61	122	617	899	1,444	1,123	627	328	162	86	75	54	423
75%	88	315	1,726	2,776	2,994	2,173	1,491	697	280	135	106	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	984	394	170	123	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,738	391	221	228	1,897
Mean	88	270	1,186	1,835	2,180	1,653	979	519	230	108	82	69	551
65 no CVP SJIE													
0%	16	19	34	28	64	116	53	63	25	30	13	12	48
10%	26	48	79	197	265	296	202	147	76	49	45	24	145
25%	41	70	192	369	666	577	373	238	105	59	52	39	250
50%	61	122	617	899	1,444	1,123	627	328	159	83	75	48	417
75%	95	315	1,726	2,776	2,994	2,173	1,491	682	279	134	100	92	767
90%	153	646	3,160	4,389	5,082	3,571	2,081	976	401	170	122	108	1,061
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,499	1,738	391	221	228	1,897
Mean	89	270	1,185	1,835	2,180	1,653	979	516	229	106	82	67	550

Table H1a4-30. Water Year Average of Monthly Flows (cfs) — Cottonwood Creek above Confluence with Sacramento River (SWRCB Cottonwood Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	66	74	441	507	748	537	256	177	100	58	54	39
D	63	241	697	625	1,213	1,008	474	272	133	72	55	57
BN	70	180	615	1,320	1,595	1,087	795	374	181	82	61	46
AN	113	287	1,232	2,589	2,954	2,127	1,110	811	305	141	99	93
W	122	445	2,285	3,455	3,713	2,890	1,804	864	383	171	130	100
All	89	270	1,186	1,835	2,180	1,653	980	521	233	110	84	69
35 no CVP SJIE												
C	67	74	441	507	748	539	256	174	92	59	52	39
D	65	242	697	625	1,213	1,008	471	273	133	72	55	57
BN	70	180	615	1,319	1,595	1,087	792	375	181	82	61	46
AN	115	287	1,232	2,589	2,954	2,127	1,110	812	305	141	99	91
W	121	445	2,285	3,455	3,713	2,890	1,805	862	386	172	131	100
All	89	270	1,186	1,835	2,180	1,653	980	520	233	110	84	69
45 no CVP SJIE												
C	65	74	441	506	747	540	256	172	91	58	52	37
D	64	241	697	625	1,213	1,008	470	271	133	71	55	58
BN	69	180	615	1,319	1,595	1,087	792	373	179	82	61	46
AN	113	287	1,232	2,589	2,954	2,127	1,108	812	305	141	96	91
W	121	445	2,285	3,455	3,713	2,890	1,804	865	383	171	127	100
All	89	270	1,186	1,835	2,180	1,653	979	520	231	110	83	69
55 w/WSAs no CVP SJIE												
C	66	74	441	507	748	540	256	175	93	58	54	39
D	62	242	697	625	1,213	1,008	471	272	132	72	55	57
BN	71	180	615	1,319	1,595	1,087	792	374	181	82	61	46
AN	112	287	1,232	2,589	2,954	2,127	1,108	812	305	141	96	91
W	121	445	2,285	3,455	3,713	2,890	1,804	864	383	171	126	101
All	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69
55 no CVP SJIE												
C	65	75	440	506	747	538	256	170	88	53	49	35
D	65	242	696	625	1,213	1,008	470	270	131	70	57	58
BN	67	180	615	1,319	1,595	1,087	792	372	179	81	63	46
AN	112	288	1,232	2,589	2,954	2,127	1,108	810	302	141	96	91
W	122	445	2,285	3,455	3,713	2,890	1,804	864	383	170	124	101
All	88	270	1,186	1,835	2,180	1,653	979	519	230	108	82	69
65 no CVP SJIE												
C	65	75	440	506	747	538	256	168	83	48	44	31
D	66	242	696	625	1,213	1,008	470	268	130	65	64	54
BN	67	180	615	1,319	1,595	1,087	792	370	175	79	61	46
AN	112	287	1,231	2,589	2,954	2,127	1,108	810	302	140	94	89
W	122	445	2,284	3,455	3,713	2,890	1,804	858	386	170	123	99
All	89	270	1,185	1,835	2,180	1,653	979	516	229	106	82	67

H1a4.2.16 Cow Creek above Confluence with Sacramento River (SWRCB Cow Creek)

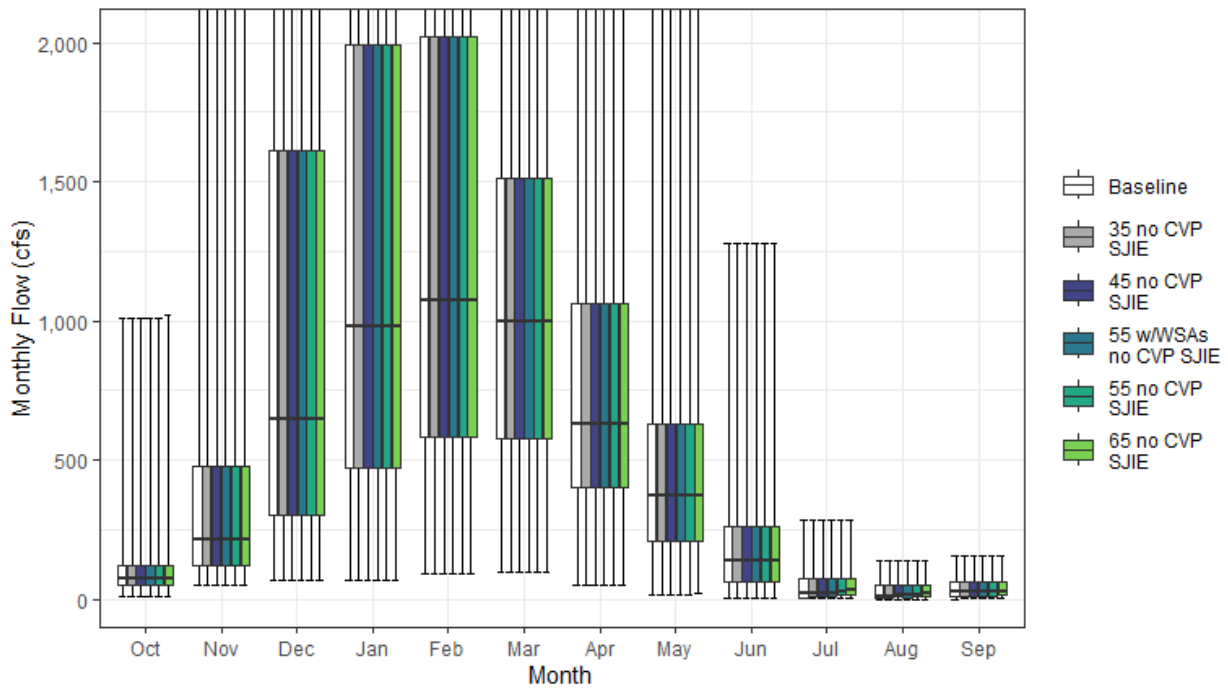

Figure H1a4-16. Cow Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-31. Cumulative Distribution of Monthly Flow (cfs) — Cow Creek above Confluence with Sacramento River (SWRCB Cow Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	10	51	67	66	94	98	52	17	1	1	1	1	43
10%	29	89	121	267	302	351	234	103	24	2	2	3	168
25%	49	119	302	471	580	576	399	211	62	5	4	8	232
50%	76	215	645	981	1,073	1,000	627	373	139	21	9	29	366
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,012	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	43	28	39	422
35 no CVP SJIE													
0%	10	51	67	66	94	98	52	17	3	1	1	1	43
10%	29	89	121	267	302	351	234	103	24	5	4	6	168
25%	49	119	302	471	580	576	399	211	62	9	6	8	233
50%	76	215	645	981	1,073	1,000	627	373	139	21	11	29	366
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,012	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	45	28	39	422
45 no CVP SJIE													
0%	10	51	67	66	94	98	52	17	4	2	1	1	43
10%	29	89	121	267	302	351	234	103	24	7	5	7	168
25%	49	119	302	471	580	576	399	211	62	11	8	10	233
50%	76	215	645	981	1,073	1,000	627	373	139	22	14	29	367
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,012	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	46	29	40	422
55 w/WSAs no CVP SJIE													
0%	10	51	67	66	94	98	52	17	3	1	1	1	43
10%	29	89	121	267	302	351	234	103	24	5	4	6	168
25%	49	119	302	471	580	576	399	211	62	10	7	10	233
50%	76	215	645	981	1,073	1,000	627	373	139	21	13	29	366
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,012	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	45	29	39	422
55 no CVP SJIE													
0%	12	51	67	66	94	98	52	18	5	2	1	2	43
10%	29	89	121	267	302	351	234	103	26	8	5	9	169
25%	49	119	302	471	580	576	399	211	62	14	9	13	233
50%	76	215	645	981	1,073	1,000	627	373	139	26	17	29	367
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,011	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	47	30	40	423
65 no CVP SJIE													
0%	12	51	67	66	94	98	52	22	6	2	1	2	43
10%	29	89	121	267	302	351	234	103	30	10	6	10	169
25%	48	119	302	471	580	576	399	211	62	16	11	15	234
50%	76	215	645	981	1,073	1,000	627	373	139	31	20	29	368
75%	120	477	1,614	1,992	2,020	1,511	1,061	630	258	76	49	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,021	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	49	32	41	423

Table H1a4-32. Water Year Average of Monthly Flows (cfs) — Cow Creek above Confluence with Sacramento River (SWRCB Cow Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	83	122	440	460	614	487	232	155	52	6	6	7
D	74	322	731	572	912	844	507	249	72	7	5	21
BN	77	232	638	1,140	1,277	983	802	395	139	18	12	20
AN	108	317	969	1,851	1,804	1,575	880	638	228	53	39	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	101	62	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	43	28	39
35 no CVP SJIE												
C	83	122	440	460	614	487	232	155	52	8	7	9
D	74	322	731	572	912	844	507	249	72	10	7	21
BN	77	232	638	1,140	1,277	983	802	395	139	20	13	20
AN	108	317	969	1,851	1,804	1,575	880	638	228	53	39	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	101	62	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	45	28	39
45 no CVP SJIE												
C	83	122	440	459	614	487	232	155	52	9	7	10
D	74	322	731	572	912	844	507	249	72	13	8	23
BN	77	232	638	1,140	1,277	983	802	395	139	22	14	20
AN	108	317	969	1,851	1,804	1,575	880	638	228	53	39	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	101	62	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	46	29	40
55 w/WSAs no CVP SJIE												
C	83	122	440	460	614	487	232	155	52	8	7	9
D	74	322	731	572	912	844	507	249	72	11	7	22
BN	77	232	638	1,140	1,277	983	802	395	139	22	14	20
AN	108	317	969	1,851	1,804	1,575	880	638	228	53	39	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	101	62	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	45	29	39
55 no CVP SJIE												
C	83	122	439	459	614	487	232	156	53	10	8	11
D	74	322	731	572	912	844	507	249	72	15	10	24
BN	77	232	638	1,140	1,277	983	802	395	139	24	16	21
AN	108	317	969	1,851	1,804	1,575	880	638	228	53	40	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	101	62	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	47	30	40
65 no CVP SJIE												
C	83	122	439	459	614	487	232	156	55	12	9	12
D	74	322	731	572	912	844	507	249	73	18	12	26
BN	77	232	638	1,140	1,277	983	802	395	139	28	18	23
AN	108	317	968	1,851	1,804	1,575	880	638	228	55	41	63
W	135	587	1,839	2,379	2,205	1,789	1,282	783	360	102	63	71
All	99	352	1,031	1,365	1,434	1,188	799	471	188	49	32	41

H1a4.2.17 Deer Creek above Confluence with Sacramento River (SWRCB Deer Creek)

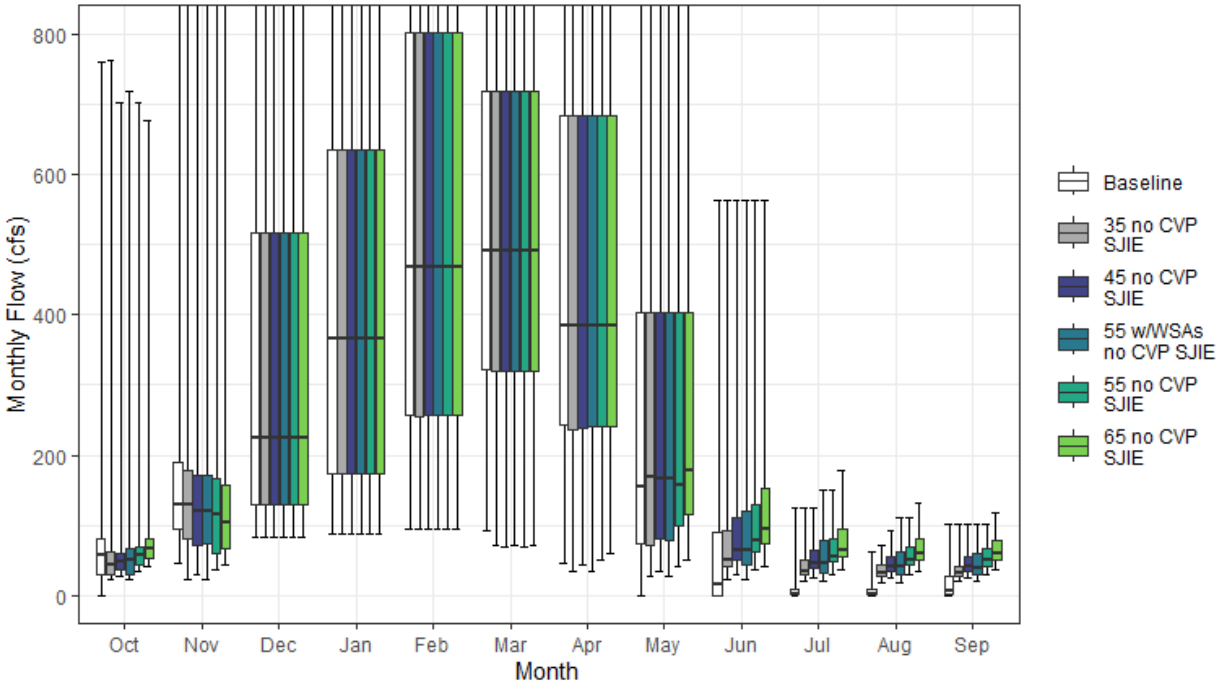

Figure H1a4-17. Deer Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-33. Cumulative Distribution of Monthly Flow (cfs) — Deer Creek above Confluence with Sacramento River (SWRCB Deer Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	47	82	87	95	92	45	0	0	0	0	0	33
10%	15	78	100	129	161	210	131	1	0	0	0	0	73
25%	29	95	129	173	257	321	243	73	0	1	1	1	100
50%	58	130	223	365	468	491	386	155	15	1	1	6	156
75%	80	189	517	635	802	719	684	404	89	9	9	26	258
90%	119	312	899	1,180	1,284	1,141	1,009	661	235	31	9	41	356
100%	761	969	1,797	2,427	2,567	2,079	1,696	1,102	563	125	63	101	463
Mean	67	178	380	510	616	588	494	261	69	11	7	15	192
35 no CVP SJIE													
0%	22	23	82	87	95	72	34	27	23	19	19	19	34
10%	24	40	100	129	161	206	121	45	33	25	23	23	77
25%	29	81	129	173	256	320	237	70	40	30	27	27	105
50%	43	128	223	365	468	491	386	168	50	35	32	32	158
75%	61	177	517	635	802	719	684	404	92	51	44	42	264
90%	92	306	899	1,180	1,284	1,141	1,009	661	235	66	52	48	357
100%	763	969	1,797	2,427	2,567	2,079	1,696	1,102	563	125	71	102	466
Mean	57	165	380	510	616	587	488	266	92	43	35	35	196
45 no CVP SJIE													
0%	28	29	82	87	95	68	44	34	29	25	24	25	38
10%	31	40	100	129	161	209	128	58	42	32	29	29	79
25%	37	71	129	173	256	320	239	81	51	38	35	35	107
50%	47	120	223	365	468	491	386	166	65	45	41	41	160
75%	60	172	517	635	802	719	684	404	110	65	56	54	266
90%	77	306	899	1,180	1,284	1,141	1,009	661	235	85	67	61	357
100%	702	969	1,797	2,427	2,567	2,079	1,696	1,102	563	125	91	100	469
Mean	58	157	380	510	616	587	489	271	103	54	45	44	199
55 w/WSAs no CVP SJIE													
0%	22	23	82	87	95	70	34	27	23	19	19	19	34
10%	24	40	100	129	161	204	124	47	34	26	23	23	76
25%	30	74	129	173	256	320	241	79	44	31	29	29	106
50%	50	120	223	365	468	491	386	166	64	45	41	40	159
75%	66	171	517	635	802	719	684	404	120	79	62	61	267
90%	76	312	899	1,180	1,284	1,141	1,009	661	235	104	81	73	362
100%	720	969	1,797	2,427	2,567	2,079	1,696	1,102	563	151	111	101	474
Mean	57	158	380	510	616	586	487	269	104	57	48	46	199
55 no CVP SJIE													
0%	34	36	82	87	95	69	51	42	36	30	29	30	42
10%	38	46	100	129	161	212	125	70	51	39	36	36	80
25%	45	60	129	173	257	320	240	98	63	47	42	42	110
50%	57	114	223	365	468	491	386	158	79	55	50	50	163
75%	68	167	517	635	802	719	684	404	129	80	69	66	270
90%	78	305	899	1,180	1,284	1,141	1,009	661	235	104	82	75	362
100%	702	969	1,797	2,427	2,567	2,079	1,696	1,102	563	151	111	101	473
Mean	65	152	380	510	616	586	486	277	115	66	56	53	202
65 no CVP SJIE													
0%	40	42	82	87	95	71	60	49	42	36	34	36	46
10%	45	54	100	129	161	206	132	83	60	46	42	42	84
25%	53	66	129	173	256	320	240	116	74	56	50	50	114
50%	67	105	223	365	468	491	386	177	94	65	59	59	167
75%	81	156	517	635	802	719	684	402	152	95	81	78	274
90%	92	298	899	1,180	1,284	1,141	1,009	661	260	123	97	88	366
100%	676	925	1,797	2,427	2,567	2,079	1,696	1,102	563	179	131	119	479
Mean	75	148	380	510	615	585	486	288	130	78	66	63	206

Table H1a4-34. Water Year Average of Monthly Flows (cfs) — Deer Creek above Confluence with Sacramento River (SWRCB Deer Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	41	90	168	170	242	246	131	37	0	0	0	1
D	51	148	256	212	354	415	297	95	3	1	1	6
BN	57	140	236	355	492	496	494	191	36	1	2	4
AN	69	182	312	642	800	748	553	310	55	8	9	17
W	98	269	703	956	1,012	892	808	527	181	31	17	35
All	67	178	380	510	616	588	494	261	69	11	7	15
35 no CVP SJIE												
C	41	80	168	170	242	243	113	52	32	25	23	23
D	45	131	256	212	354	412	288	106	41	30	27	28
BN	46	126	236	355	492	495	490	194	64	36	31	30
AN	51	167	312	642	800	748	548	307	79	44	38	38
W	84	261	703	956	1,012	892	808	527	186	66	50	48
All	57	165	380	510	616	587	488	266	92	43	35	35
45 no CVP SJIE												
C	44	64	168	170	242	240	119	62	41	32	29	29
D	49	125	256	212	353	412	289	115	52	39	35	36
BN	48	119	236	355	492	495	488	199	78	46	40	39
AN	50	151	312	642	800	748	552	309	93	57	48	48
W	81	256	703	956	1,012	892	808	528	192	82	64	59
All	58	157	380	510	616	587	489	271	103	54	45	44
55 w/WSAs no CVP SJIE												
C	38	69	168	170	242	241	117	52	33	25	23	23
D	48	129	256	212	353	411	289	110	46	34	31	31
BN	49	113	236	355	492	495	483	200	76	45	38	37
AN	49	153	312	642	800	748	550	308	100	62	53	53
W	84	256	703	956	1,012	892	808	528	204	98	77	70
All	57	158	380	510	616	586	487	269	104	57	48	46
55 no CVP SJIE												
C	49	58	168	170	241	240	123	73	50	39	36	36
D	55	121	256	212	353	411	281	124	64	47	43	44
BN	56	117	236	355	492	495	481	209	92	57	48	47
AN	60	152	312	642	800	748	550	310	108	69	59	59
W	89	248	703	956	1,012	892	808	528	205	100	78	71
All	65	152	380	510	616	586	486	277	115	66	56	53
65 no CVP SJIE												
C	58	63	168	170	241	236	130	86	60	46	42	43
D	65	117	256	212	354	409	284	138	75	56	51	52
BN	66	111	236	355	491	493	477	226	106	67	57	56
AN	70	146	312	642	800	748	545	316	125	82	70	70
W	98	239	703	956	1,012	892	808	533	224	118	92	84
All	75	148	380	510	615	585	486	288	130	78	66	63

H1a4.2.18 Elder Creek above Confluence with Sacramento River

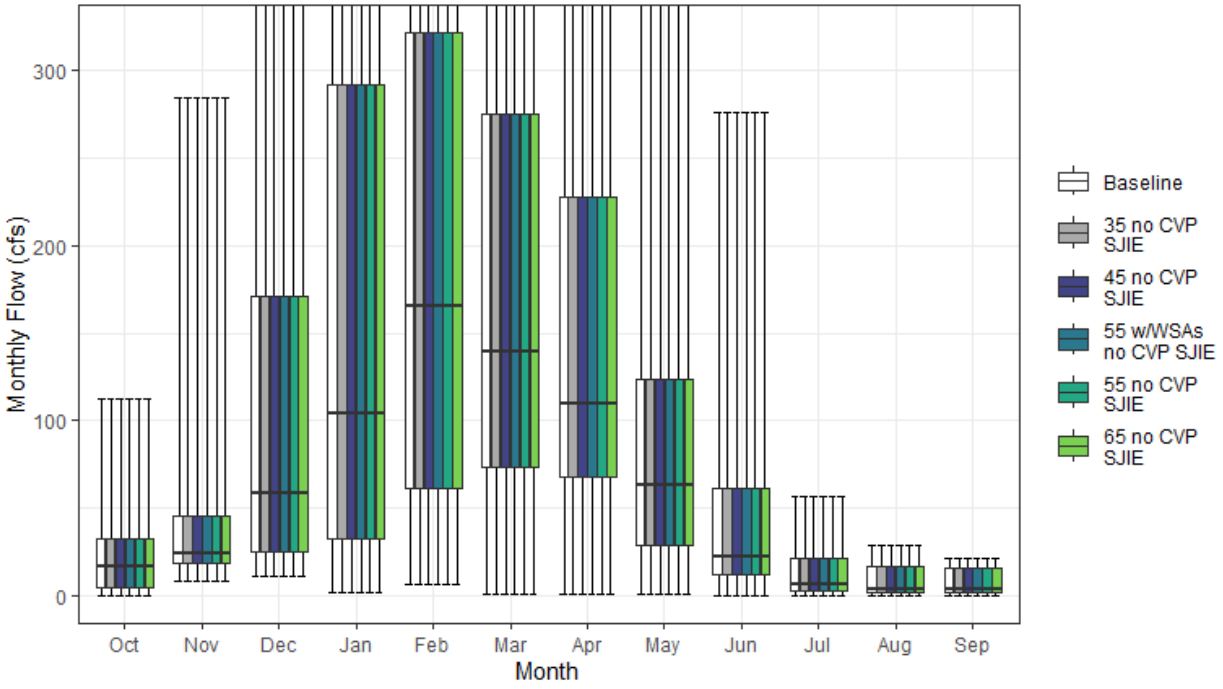

Figure H1a4-18. Elder Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-35. Cumulative Distribution of Monthly Flow (cfs) — Elder Creek above Confluence with Sacramento River

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67
35 no CVP SJIE													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67
45 no CVP SJIE													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67
55 w/WSAs no CVP SJIE													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67
55 no CVP SJIE													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67
65 no CVP SJIE													
0%	0	8	11	1	6	1	1	0	0	0	0	0	3
10%	2	13	18	14	22	32	25	13	5	1	0	0	15
25%	4	18	25	32	61	73	68	28	12	3	1	1	29
50%	17	24	59	104	165	139	110	63	22	6	4	4	52
75%	32	45	171	292	322	276	228	123	61	21	16	15	96
90%	35	107	309	423	556	400	304	196	82	28	19	17	127
100%	112	284	580	1,118	1,513	1,088	666	462	276	56	28	21	213
Mean	19	44	122	186	237	194	152	87	41	13	8	8	67

Table H1a4-36. Water Year Average of Monthly Flows (cfs) — Elder Creek above Confluence with Sacramento River

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8
35 no CVP SJIE												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8
45 no CVP SJIE												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8
55 w/WSAs no CVP SJIE												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8
55 no CVP SJIE												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8
65 no CVP SJIE												
C	9	15	51	44	71	71	42	25	8	2	0	0
D	17	38	71	68	127	127	72	36	13	4	2	2
BN	18	36	65	132	155	121	133	51	21	5	3	3
AN	20	51	134	288	364	258	186	137	65	20	14	14
W	26	67	227	342	409	329	268	162	83	26	18	16
All	19	44	122	186	237	194	152	87	41	13	8	8

H1a4.2.19 Feather River below Oroville Reservoir (SWRCB Oroville)

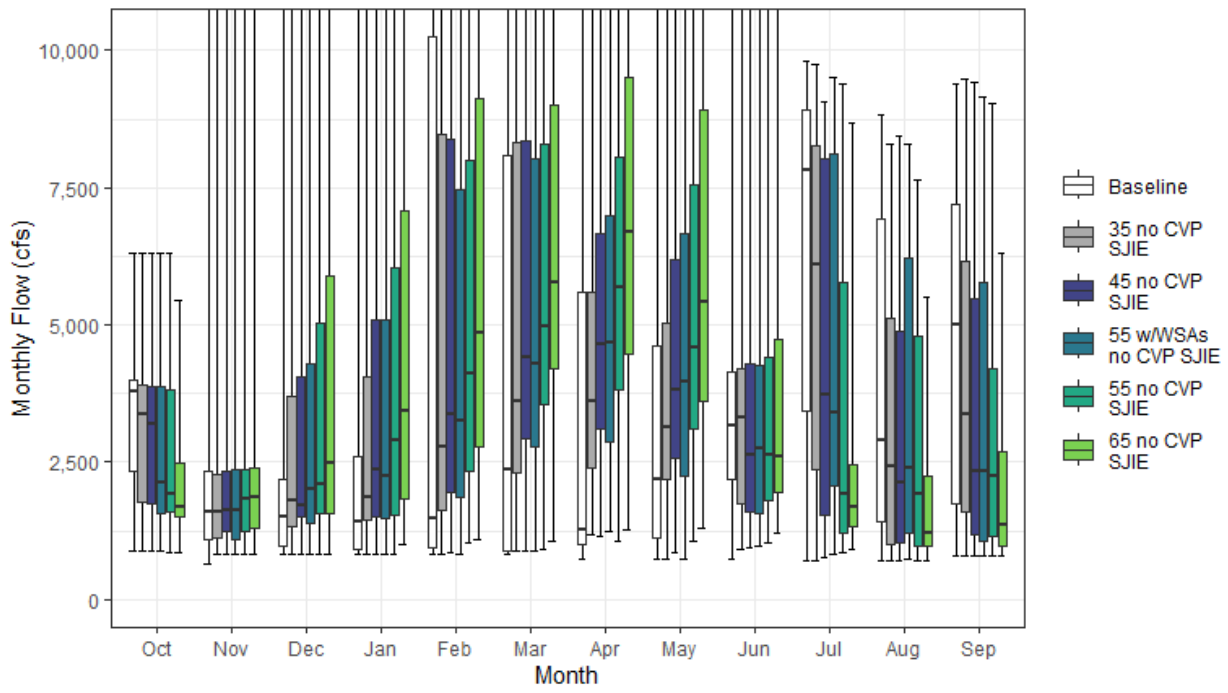

Figure H1a4-19. Feather River Streamflow below Oroville Reservoir Monthly Boxplot (cfs)

Table H1a4-37. Cumulative Distribution of Monthly Flow (cfs) — Feather River below Oroville Reservoir (SWRCB Oroville)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	868	635	812	811	815	811	718	726	732	717	716	788	685
10%	1,399	829	841	823	840	821	763	981	1,422	2,287	719	959	1,387
25%	2,342	1,094	973	912	930	889	995	1,122	2,182	3,435	1,417	1,749	1,866
50%	3,789	1,592	1,494	1,410	1,469	2,355	1,266	2,183	3,160	7,833	2,908	5,000	2,603
75%	4,007	2,327	2,186	2,598	10,249	8,083	5,603	4,621	4,151	8,919	6,918	7,194	4,140
90%	4,730	2,404	8,355	12,174	17,893	17,071	11,069	9,726	6,629	9,400	8,082	8,886	5,548
100%	6,299	15,494	24,353	38,957	47,868	37,169	22,208	21,120	13,401	9,821	8,833	9,406	8,218
Mean	3,333	1,965	3,158	4,205	6,081	6,204	3,938	3,925	3,700	6,425	3,959	4,786	3,116
35 no CVP SJIE													
0%	872	810	808	808	814	884	1,189	745	897	712	715	788	920
10%	1,217	824	841	965	1,304	1,596	1,777	1,605	1,113	1,343	742	967	1,211
25%	1,784	1,115	1,335	1,443	1,610	2,303	2,406	2,178	1,740	2,366	1,001	1,581	1,930
50%	3,378	1,603	1,809	1,868	2,791	3,612	3,611	3,123	3,309	6,094	2,418	3,372	2,797
75%	3,902	2,288	3,709	4,068	8,472	8,325	5,600	5,028	4,202	8,255	5,123	6,170	4,036
90%	4,601	2,400	7,331	12,174	13,265	14,224	11,068	9,298	6,472	9,028	7,297	8,929	5,671
100%	6,299	15,494	24,353	38,957	46,243	30,830	22,208	20,892	13,401	9,761	8,304	9,477	8,220
Mean	3,076	2,000	3,399	4,616	5,946	6,405	5,090	4,465	3,615	5,427	3,473	4,174	3,116
45 no CVP SJIE													
0%	872	808	808	808	855	887	1,138	862	954	769	711	784	1,032
10%	1,482	844	930	1,102	1,517	1,997	2,147	1,750	1,135	966	864	928	1,370
25%	1,728	1,227	1,502	1,494	1,936	2,934	3,092	2,562	1,599	1,538	1,043	1,174	1,629
50%	3,204	1,608	1,722	2,374	3,368	4,402	4,644	3,809	2,645	3,729	2,112	2,339	2,805
75%	3,874	2,341	4,067	5,097	8,388	8,364	6,674	6,175	4,295	8,015	4,874	5,488	4,076
90%	4,027	2,400	8,104	12,170	13,175	13,181	10,687	8,923	6,609	8,504	7,156	8,400	5,666
100%	6,299	15,494	24,353	38,957	41,708	30,830	22,208	20,892	13,401	9,078	8,439	9,433	8,220
Mean	3,029	2,051	3,673	4,988	6,152	6,542	5,712	4,936	3,500	4,554	3,133	3,619	3,127
55 w/WSAs no CVP SJIE													
0%	868	811	808	808	815	884	1,235	746	976	806	729	792	1,040
10%	1,128	825	840	960	1,375	1,875	1,778	1,745	1,102	1,318	994	932	1,232
25%	1,558	1,099	1,374	1,464	1,858	2,771	2,855	2,254	1,550	2,066	1,208	1,061	1,587
50%	2,136	1,607	2,021	2,244	3,255	4,303	4,681	3,964	2,753	3,386	2,406	2,337	2,707
75%	3,868	2,370	4,292	5,095	7,466	8,015	6,989	6,664	4,260	8,118	6,229	5,780	4,144
90%	3,959	2,401	7,674	12,278	12,626	13,828	10,834	9,400	6,542	8,778	7,556	8,239	5,732
100%	6,299	15,494	24,353	36,838	40,561	30,830	22,208	20,819	12,989	9,512	8,307	9,146	8,220
Mean	2,653	2,017	3,622	4,900	5,892	6,354	5,734	5,053	3,458	4,779	3,608	3,604	3,116
55 no CVP SJIE													
0%	838	808	807	808	1,040	901	1,062	1,060	1,039	837	711	784	927
10%	1,173	837	1,065	1,361	1,655	2,401	2,623	1,897	1,275	943	901	925	1,407
25%	1,586	1,241	1,557	1,530	2,340	3,558	3,802	3,103	1,807	1,202	955	1,155	1,767
50%	1,923	1,844	2,100	2,885	4,117	4,978	5,672	4,579	2,615	1,904	1,919	2,253	2,535
75%	3,807	2,376	5,034	6,027	7,997	8,297	8,051	7,544	4,419	5,770	4,806	4,198	4,220
90%	3,888	2,402	8,687	12,927	12,581	13,574	11,337	10,057	7,626	8,054	6,683	6,068	5,647
100%	6,299	15,494	24,353	37,043	33,892	30,830	22,208	18,544	12,990	9,381	7,638	9,027	8,220
Mean	2,489	2,084	4,053	5,310	6,421	6,853	6,521	5,616	3,550	3,404	2,923	3,038	3,148
65 no CVP SJIE													
0%	859	808	808	1,013	1,081	1,065	1,256	1,295	1,201	902	711	784	1,044
10%	1,048	929	1,113	1,509	1,956	2,837	3,101	2,156	1,625	1,089	933	925	1,604
25%	1,509	1,294	1,566	1,842	2,766	4,204	4,463	3,620	1,947	1,311	979	977	1,896
50%	1,683	1,873	2,477	3,421	4,865	5,772	6,704	5,405	2,587	1,687	1,219	1,362	2,572
75%	2,473	2,389	5,886	7,086	9,130	9,015	9,512	8,917	4,747	2,466	2,251	2,694	4,419
90%	3,865	2,403	10,753	12,165	13,959	14,672	13,255	11,579	7,897	6,410	4,570	3,962	5,607
100%	5,456	15,494	24,304	37,042	33,454	30,830	22,208	19,706	11,722	8,675	5,513	6,296	7,809
Mean	2,074	2,102	4,611	5,700	6,988	7,524	7,487	6,511	3,756	2,534	1,858	1,963	3,197

Table H1a4-38. Water Year Average of Monthly Flows (cfs) — Feather River below Oroville Reservoir (SWRCB Oroville)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	3,291	1,658	1,254	1,047	999	1,081	1,378	1,886	2,995	4,031	3,037	1,996
D	3,186	1,573	1,473	1,222	1,649	1,517	963	1,860	3,351	7,959	5,583	2,189
BN	3,518	1,886	1,919	1,862	2,963	3,869	1,747	1,703	2,636	8,818	6,737	5,867
AN	3,027	1,573	2,573	2,991	7,361	7,554	3,577	3,186	2,680	7,743	4,083	8,703
W	3,470	2,624	6,429	10,045	13,503	13,313	9,017	8,228	5,414	4,535	1,452	5,927
All	3,333	1,965	3,158	4,205	6,081	6,204	3,938	3,925	3,700	6,425	3,959	4,786
35 no CVP SJIE												
C	2,975	1,370	1,409	1,245	1,471	1,839	1,703	1,593	1,787	2,425	2,152	1,738
D	3,006	1,669	2,127	1,521	2,530	2,870	2,812	2,587	2,287	4,672	4,070	1,834
BN	3,234	1,917	2,109	2,342	3,705	4,282	4,102	3,341	3,522	7,963	6,143	3,600
AN	2,635	1,548	2,136	4,140	7,240	8,041	4,593	3,846	3,098	7,512	4,611	8,439
W	3,258	2,813	6,717	10,314	11,741	12,124	9,392	8,332	5,830	5,141	1,593	5,846
All	3,076	2,000	3,399	4,616	5,946	6,405	5,090	4,465	3,615	5,427	3,473	4,174
45 no CVP SJIE												
C	2,977	1,430	1,537	1,302	1,818	2,201	2,046	1,860	1,704	2,093	1,739	1,467
D	3,013	1,832	2,215	1,671	2,988	3,631	3,620	2,942	1,726	3,076	2,754	1,520
BN	3,146	1,841	2,343	2,658	4,100	4,960	5,197	4,151	3,028	5,995	4,739	2,176
AN	2,545	1,582	2,539	5,091	7,246	7,514	5,600	4,953	3,542	7,116	4,761	7,466
W	3,189	2,865	7,178	10,822	11,645	11,606	9,572	8,529	6,041	5,013	2,486	5,683
All	3,029	2,051	3,673	4,988	6,152	6,542	5,712	4,936	3,500	4,554	3,133	3,619
55 w/WSAs no CVP SJIE												
C	2,466	1,301	1,429	1,197	1,515	1,874	1,753	1,577	1,565	1,868	2,130	1,756
D	2,475	1,765	2,221	1,571	2,638	3,253	3,165	2,625	1,638	2,962	3,009	1,631
BN	2,896	1,791	2,449	2,517	3,837	4,595	5,078	4,039	2,884	7,098	4,909	2,889
AN	2,235	1,682	2,991	4,806	6,296	7,071	5,757	5,356	3,573	6,565	5,059	6,297
W	2,896	2,861	6,816	10,862	11,753	11,846	10,149	9,210	6,119	5,481	3,431	5,412
All	2,653	2,017	3,622	4,900	5,892	6,354	5,734	5,053	3,458	4,779	3,608	3,604
55 no CVP SJIE												
C	2,421	1,220	1,529	1,535	2,151	2,655	2,448	2,178	1,692	1,799	1,793	1,495
D	2,504	1,849	2,614	1,880	3,305	4,347	4,436	3,490	1,900	1,384	1,317	1,539
BN	2,455	1,945	2,794	3,002	4,712	5,494	6,351	4,965	2,874	3,428	3,504	2,279
AN	2,083	1,767	3,268	5,916	6,964	7,928	6,710	6,062	3,356	4,288	4,348	4,161
W	2,699	2,934	7,565	11,059	11,850	11,361	10,255	9,241	6,255	5,374	3,767	4,991
All	2,489	2,084	4,053	5,310	6,421	6,853	6,521	5,616	3,550	3,404	2,923	3,038
65 no CVP SJIE												
C	1,923	1,224	1,716	2,072	2,529	3,134	2,873	2,595	2,082	2,005	1,890	1,561
D	2,090	1,874	3,205	2,168	3,870	5,137	5,228	4,028	2,025	1,209	934	990
BN	2,160	1,797	3,175	3,532	4,964	6,035	7,504	5,746	2,991	1,469	1,529	1,450
AN	1,829	1,789	3,387	6,608	7,880	9,368	7,927	7,132	3,353	1,665	1,528	2,216
W	2,185	3,056	8,586	11,235	12,577	11,823	11,416	10,656	6,566	4,811	2,857	3,113
All	2,074	2,102	4,611	5,700	6,988	7,524	7,487	6,511	3,756	2,534	1,858	1,963

H1a4.2.20 Feather River above Confluence with Sacramento River (SWRCB Feather River)

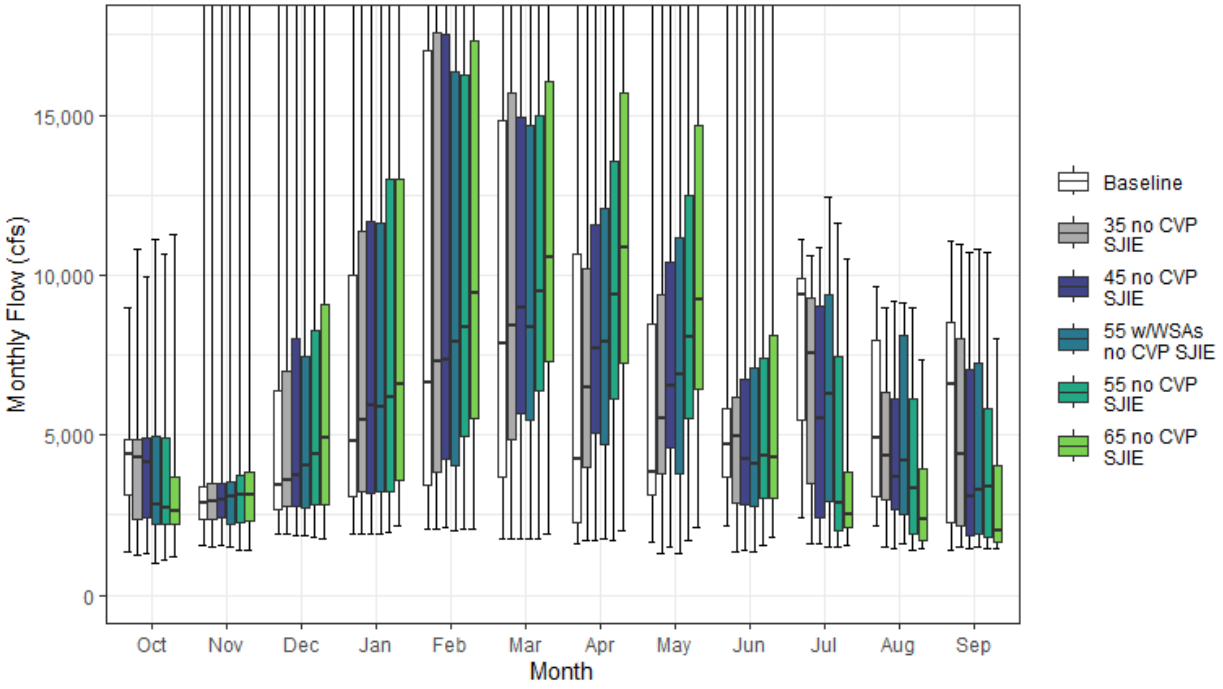

Figure H1a4-20. Feather River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-39. Cumulative Distribution of Monthly Flow (cfs) — Feather River above Confluence with Sacramento River (SWRCB Feather River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	1,350	1,537	1,913	1,924	2,042	1,755	1,597	1,637	2,152	2,427	2,186	1,415	1,618
10%	2,034	1,854	2,166	2,353	2,728	2,572	1,907	2,374	2,765	3,631	2,931	1,712	2,114
25%	3,127	2,373	2,683	3,091	3,452	3,705	2,293	3,144	3,683	5,469	3,097	2,268	3,087
50%	4,402	2,869	3,432	4,829	6,619	7,864	4,273	3,864	4,686	9,401	4,901	6,587	4,216
75%	4,874	3,414	6,405	9,980	16,997	14,809	10,672	8,452	5,843	9,888	7,939	8,537	6,933
90%	6,144	3,911	19,033	23,276	28,751	27,426	17,942	15,745	10,734	10,272	8,778	10,374	8,942
100%	8,965	21,701	39,711	66,522	78,623	57,569	36,791	29,829	22,723	11,096	9,661	11,088	13,342
Mean	4,138	3,427	6,580	9,422	11,951	11,492	7,499	6,811	5,931	7,821	5,415	5,959	5,204
35 no CVP SJIE													
0%	1,280	1,530	1,891	1,930	2,076	1,763	1,724	1,319	1,341	1,635	1,520	1,487	1,492
10%	1,815	1,889	2,188	2,577	2,865	3,339	2,978	2,527	1,964	1,855	2,366	1,726	2,090
25%	2,392	2,391	2,803	3,230	3,865	4,874	3,996	3,810	2,877	3,488	2,981	2,184	3,122
50%	4,307	2,917	3,618	5,493	7,284	8,426	6,512	5,506	4,979	7,549	4,360	4,405	4,392
75%	4,865	3,483	6,995	11,363	17,564	15,703	10,196	9,371	6,176	9,284	6,315	8,000	6,813
90%	5,710	4,424	16,799	24,169	25,562	24,693	17,939	15,860	10,784	9,710	8,381	10,109	9,157
100%	10,794	22,356	40,590	66,465	77,069	50,371	36,843	29,810	22,294	10,592	8,982	10,971	13,340
Mean	3,910	3,521	6,879	9,826	11,906	11,896	8,747	7,598	5,823	6,527	4,779	5,290	5,219
45 no CVP SJIE													
0%	1,319	1,560	1,889	1,935	2,107	1,771	1,702	1,484	1,387	1,634	1,476	1,479	1,485
10%	1,833	1,923	2,216	2,602	3,043	3,492	3,650	2,832	1,889	1,779	1,906	1,660	2,232
25%	2,420	2,407	2,782	3,162	4,261	5,676	5,063	4,593	2,836	2,436	2,689	1,875	2,927
50%	4,168	2,983	3,764	5,910	7,355	8,983	7,717	6,532	4,252	5,514	3,692	3,109	4,243
75%	4,933	3,511	7,998	11,662	17,505	14,924	11,585	10,415	6,731	9,025	6,153	7,049	6,995
90%	5,229	4,769	15,586	25,929	25,506	23,190	17,915	15,728	10,580	9,641	8,341	9,894	9,283
100%	9,945	22,628	40,332	66,338	72,744	50,004	36,648	29,688	21,934	10,883	9,162	10,713	13,339
Mean	3,862	3,615	7,110	10,138	12,133	12,039	9,580	8,252	5,661	5,682	4,424	4,718	5,249
55 w/WSAs no CVP SJIE													
0%	1,016	1,520	1,842	1,935	2,035	1,764	1,763	1,313	1,343	1,512	1,615	1,491	1,428
10%	1,629	1,845	2,066	2,521	2,971	3,447	3,039	2,437	1,867	1,996	1,991	1,671	2,030
25%	2,232	2,202	2,717	3,256	4,027	5,475	4,710	3,814	2,758	2,915	2,539	1,928	2,777
50%	2,840	3,100	4,042	5,883	7,936	8,368	7,914	6,917	4,121	6,275	4,202	3,295	4,184
75%	4,961	3,556	7,458	11,603	16,345	14,694	12,060	11,178	7,123	9,364	8,094	7,261	7,394
90%	5,095	4,805	14,156	22,285	24,844	23,370	17,701	15,434	10,819	10,168	8,526	9,745	9,331
100%	11,130	22,179	39,264	63,532	71,739	50,739	36,576	29,981	21,160	12,432	9,138	10,829	13,356
Mean	3,519	3,633	6,944	9,970	11,739	11,733	9,616	8,373	5,604	6,159	5,012	4,781	5,243
55 no CVP SJIE													
0%	1,094	1,420	1,813	1,968	2,050	1,774	1,731	1,694	1,580	1,488	1,386	1,447	1,395
10%	1,631	1,835	2,145	2,801	3,234	4,059	4,459	3,017	2,010	1,691	1,585	1,601	2,307
25%	2,220	2,296	2,853	3,234	4,957	6,406	6,152	5,512	3,011	2,008	1,904	1,794	3,095
50%	2,721	3,136	4,395	6,172	8,352	9,490	9,388	8,059	4,336	2,865	3,349	3,375	4,354
75%	4,897	3,755	8,278	12,990	16,233	14,992	13,568	12,466	7,395	7,472	6,156	5,828	7,476
90%	5,161	5,045	16,095	24,583	25,572	25,126	19,584	16,897	11,635	9,300	8,026	7,698	9,243
100%	10,644	22,813	40,166	63,973	65,104	49,989	36,501	27,748	21,172	11,625	8,981	10,726	13,353
Mean	3,376	3,670	7,472	10,323	12,372	12,409	10,731	9,331	5,746	4,556	4,092	4,079	5,305
65 no CVP SJIE													
0%	1,224	1,429	1,740	2,178	2,060	1,939	2,006	2,143	1,812	1,569	1,456	1,435	1,512
10%	1,586	1,815	2,167	3,022	3,612	4,670	5,268	3,421	2,232	1,771	1,632	1,602	2,572
25%	2,210	2,298	2,837	3,593	5,511	7,304	7,237	6,429	3,046	2,104	1,706	1,667	3,203
50%	2,620	3,145	4,891	6,575	9,450	10,577	10,857	9,227	4,287	2,550	2,361	2,007	4,399
75%	3,686	3,865	9,085	13,019	17,320	16,033	15,667	14,665	8,105	3,838	3,937	4,054	7,624
90%	4,957	5,262	18,278	22,429	25,937	26,881	21,745	19,469	12,836	8,385	5,777	5,395	9,177
100%	11,288	22,882	40,277	63,147	62,026	50,000	36,661	29,738	20,699	10,497	7,339	7,996	13,080
Mean	3,003	3,688	8,063	10,684	12,911	13,130	12,097	10,702	6,109	3,699	2,997	2,975	5,417

Table H1a4-40. Water Year Average of Monthly Flows (cfs) — Feather River above Confluence with Sacramento River (SWRCB Feather River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	3,780	2,714	2,688	2,713	2,903	2,739	2,118	2,580	3,421	4,333	3,501	2,457
D	3,910	2,796	3,408	3,501	4,509	4,795	2,671	3,314	4,339	8,584	6,398	2,998
BN	4,246	3,045	3,943	5,365	7,852	8,102	5,191	4,122	4,448	9,688	7,837	6,763
AN	3,717	3,293	5,783	9,522	14,505	14,758	7,642	6,704	5,063	9,373	5,926	10,203
W	4,595	4,565	12,970	19,872	23,807	21,911	15,313	13,377	9,724	7,318	3,978	7,792
All	4,138	3,427	6,580	9,422	11,951	11,492	7,499	6,811	5,931	7,821	5,415	5,959
35 no CVP SJIE												
C	3,494	2,454	2,901	2,911	3,429	3,575	2,762	2,552	2,416	2,898	2,732	2,235
D	3,747	2,926	4,102	3,712	5,303	6,282	4,879	4,320	3,355	5,348	4,843	2,548
BN	3,992	3,095	4,145	5,699	8,423	9,009	7,565	6,003	5,327	8,680	7,014	4,490
AN	3,376	3,392	5,283	10,882	14,375	15,490	8,355	7,590	5,310	8,788	6,221	9,769
W	4,412	4,846	13,408	20,188	22,487	20,840	15,681	13,706	9,969	7,058	3,833	7,644
All	3,910	3,521	6,879	9,826	11,906	11,896	8,747	7,598	5,823	6,527	4,779	5,290
45 no CVP SJIE												
C	3,505	2,510	3,058	3,020	3,831	4,111	3,341	2,966	2,354	2,531	2,281	1,954
D	3,753	3,100	4,219	3,831	5,902	7,053	6,007	4,989	2,813	3,785	3,539	2,223
BN	3,915	3,045	4,364	5,978	8,792	9,614	8,926	7,018	4,798	6,794	5,610	3,004
AN	3,274	3,468	5,706	11,731	14,367	14,808	9,485	8,805	5,704	8,420	6,313	8,804
W	4,334	5,002	13,691	20,557	22,352	20,351	15,979	14,025	10,043	6,953	4,709	7,472
All	3,862	3,615	7,110	10,138	12,133	12,039	9,580	8,252	5,661	5,682	4,424	4,718
55 w/WSAs no CVP SJIE												
C	3,012	2,371	2,906	2,889	3,455	3,662	2,836	2,490	2,154	2,315	2,637	2,201
D	3,246	3,047	4,214	3,763	5,500	6,615	5,384	4,467	2,647	3,672	3,806	2,343
BN	3,680	3,014	4,441	5,929	8,535	8,995	8,748	6,824	4,605	7,891	5,982	3,888
AN	2,981	3,573	6,072	11,198	13,430	14,115	10,076	9,384	5,863	8,113	6,761	7,834
W	4,103	5,153	13,035	20,365	22,087	20,572	16,700	14,954	10,143	8,153	5,849	7,289
All	3,519	3,633	6,944	9,970	11,739	11,733	9,616	8,373	5,604	6,159	5,012	4,781
55 no CVP SJIE												
C	3,004	2,266	3,038	3,228	4,192	4,751	3,999	3,488	2,384	2,192	2,252	1,945
D	3,268	3,137	4,689	3,941	6,402	7,964	7,236	5,917	3,022	2,082	2,070	2,195
BN	3,275	3,159	4,754	6,293	9,294	10,116	10,544	8,351	4,769	4,296	4,328	2,999
AN	2,864	3,628	6,491	12,420	14,211	15,228	11,038	10,498	5,619	5,695	5,664	5,298
W	3,923	5,150	13,990	20,502	22,326	20,077	16,881	15,105	10,205	7,342	5,778	6,795
All	3,376	3,670	7,472	10,323	12,372	12,409	10,731	9,331	5,746	4,556	4,092	4,079
65 no CVP SJIE												
C	2,545	2,194	3,223	3,731	4,681	5,437	4,680	4,119	2,845	2,366	2,281	1,904
D	2,882	3,162	5,323	4,179	7,110	9,038	8,460	6,859	3,244	1,877	1,642	1,643
BN	2,987	2,981	5,178	6,843	9,634	10,747	12,249	9,696	4,975	2,288	2,282	2,144
AN	2,662	3,670	6,563	13,201	14,804	16,808	12,700	12,242	5,759	3,073	2,835	3,400
W	3,483	5,326	15,078	20,590	22,873	20,271	18,383	17,054	10,807	6,891	4,889	4,880
All	3,003	3,688	8,063	10,684	12,911	13,130	12,097	10,702	6,109	3,699	2,997	2,975

H1a4.2.21 Mill Creek above Confluence with Sacramento River (SWRCB Mill Creek)

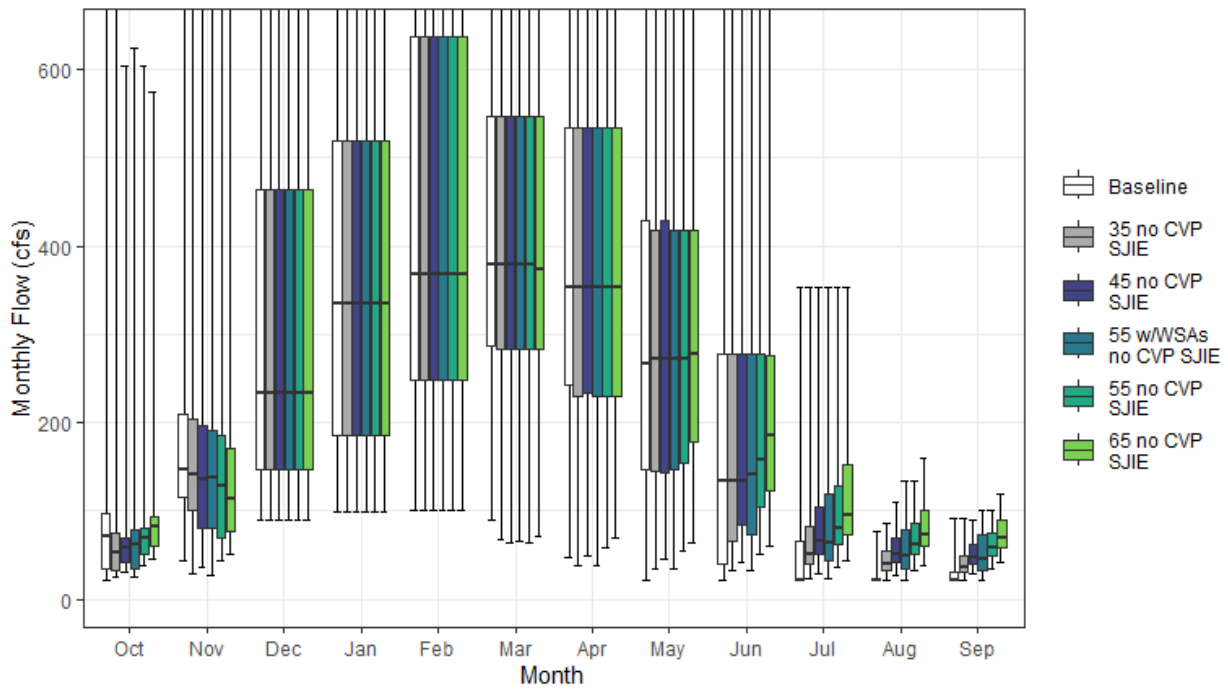

Figure H1a4-21. Mill Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-41. Cumulative Distribution of Monthly Flow (cfs) — Mill Creek above Confluence with Sacramento River (SWRCB Mill Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	21	43	90	100	101	90	48	21	21	21	21	21	39
10%	21	93	119	142	176	191	166	70	21	21	21	21	88
25%	34	115	147	185	247	287	243	147	40	21	21	21	109
50%	71	147	234	334	368	378	354	266	135	21	21	21	147
75%	98	209	464	519	637	547	533	429	277	66	21	31	239
90%	134	314	776	895	873	795	716	598	401	139	29	52	301
100%	671	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	77	91	383
Mean	79	192	349	422	476	448	399	304	175	56	25	29	177
35 no CVP SJIE													
0%	24	29	90	100	101	67	38	35	32	23	21	22	37
10%	29	51	119	142	176	199	158	83	47	34	27	27	88
25%	33	100	147	185	247	283	229	144	66	39	32	31	111
50%	53	142	234	334	368	378	354	272	135	52	39	37	151
75%	74	205	464	519	637	547	533	417	277	82	54	48	241
90%	100	314	776	895	873	795	716	598	401	139	61	54	300
100%	673	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	86	92	385
Mean	66	178	349	422	476	446	392	304	183	73	43	40	179
45 no CVP SJIE													
0%	31	36	90	100	101	63	48	45	41	30	27	29	41
10%	37	48	119	142	176	199	158	105	60	44	35	34	90
25%	42	81	147	185	247	283	234	143	85	51	41	40	113
50%	59	135	234	334	368	378	354	272	134	66	50	48	156
75%	69	197	464	519	637	547	533	428	277	105	70	62	244
90%	94	314	776	895	873	795	716	598	401	139	79	68	302
100%	603	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	110	91	387
Mean	66	168	349	422	475	446	393	307	190	86	55	50	181
55 w/WSAs no CVP SJIE													
0%	24	28	90	100	101	66	38	35	32	23	21	22	36
10%	29	49	119	142	176	199	158	83	50	35	28	27	87
25%	34	81	147	185	247	283	229	147	73	44	34	33	111
50%	62	138	234	334	368	378	354	272	141	65	49	46	154
75%	78	191	464	519	637	547	533	418	277	120	78	73	244
90%	86	314	776	895	873	795	716	598	401	165	96	83	305
100%	624	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	135	101	390
Mean	66	169	349	422	476	446	392	304	188	89	58	52	181
55 no CVP SJIE													
0%	38	43	90	100	101	63	59	55	50	36	33	35	45
10%	45	56	119	142	176	200	158	127	74	54	43	42	90
25%	51	70	147	185	247	283	229	153	104	62	50	49	117
50%	69	129	234	334	368	378	354	272	159	81	62	58	156
75%	80	185	464	519	637	547	533	418	277	128	86	76	248
90%	89	314	776	895	873	795	716	598	401	168	96	83	305
100%	603	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	135	101	390
Mean	74	162	349	422	475	445	390	311	201	101	68	61	184
65 no CVP SJIE													
0%	45	51	90	100	101	71	70	65	60	43	39	41	50
10%	53	65	119	142	176	190	159	143	87	64	51	49	95
25%	60	77	147	185	247	283	230	179	122	73	60	58	122
50%	82	114	234	334	368	373	354	278	185	96	73	69	161
75%	94	170	464	519	637	547	533	417	276	151	101	90	252
90%	106	271	776	895	873	795	689	597	401	199	114	98	310
100%	574	976	1,345	1,816	1,725	1,266	1,101	804	668	353	159	120	394
Mean	85	157	349	422	475	444	390	321	217	118	80	73	188

Table H1a4-42. Water Year Average of Monthly Flows (cfs) — Mill Creek above Confluence with Sacramento River (SWRCB Mill Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	54	108	184	180	232	238	150	89	30	21	21	21
D	62	158	245	214	319	356	291	173	59	21	21	25
BN	69	154	235	334	399	397	412	260	143	28	21	21
AN	82	195	300	535	597	566	458	384	209	45	23	31
W	110	285	605	715	721	612	579	510	343	123	32	41
All	79	192	349	422	476	448	399	304	175	56	25	29
35 no CVP SJIE												
C	49	97	184	180	232	235	130	93	50	32	28	27
D	54	139	245	214	319	353	281	174	76	40	33	32
BN	55	137	235	334	399	395	407	260	150	54	38	35
AN	60	178	300	535	597	566	453	380	207	72	48	45
W	93	275	605	715	721	612	579	510	344	133	60	54
All	66	178	349	422	476	446	392	304	183	73	43	40
45 no CVP SJIE												
C	52	78	184	180	232	232	135	100	64	41	36	35
D	58	132	245	214	318	353	282	179	92	52	42	41
BN	57	129	235	334	399	395	404	261	156	69	49	45
AN	58	159	300	535	597	566	457	381	209	90	62	58
W	90	270	605	715	721	612	579	510	344	144	77	66
All	66	168	349	422	475	446	393	307	190	86	55	50
55 w/WSAs no CVP SJIE												
C	45	84	184	180	232	232	134	92	51	33	29	27
D	56	137	245	214	318	352	282	172	84	46	37	36
BN	58	123	235	334	399	395	400	265	156	66	47	43
AN	57	162	300	535	597	566	454	380	217	98	68	64
W	92	270	605	715	721	612	579	508	346	161	93	79
All	66	169	349	422	476	446	392	304	188	89	58	52
55 no CVP SJIE												
C	58	70	184	180	231	231	139	112	78	50	44	42
D	64	127	245	214	318	352	273	186	112	63	51	50
BN	66	127	235	334	399	395	397	268	169	84	60	54
AN	69	159	300	535	597	566	454	381	220	110	76	71
W	98	260	605	715	721	612	579	508	346	163	95	80
All	74	162	349	422	475	445	390	311	201	101	68	61
65 no CVP SJIE												
C	69	75	184	180	231	227	145	131	92	59	52	50
D	76	123	245	214	319	349	275	201	132	75	60	59
BN	77	121	235	334	398	393	392	281	191	100	71	64
AN	81	153	300	535	597	566	449	387	239	130	89	84
W	108	251	605	715	721	612	579	510	353	186	112	95
All	85	157	349	422	475	444	390	321	217	118	80	73

H1a4.2.22 Mokelumne River above Pardee Reservoir (SWRCB Pardee Inflow)

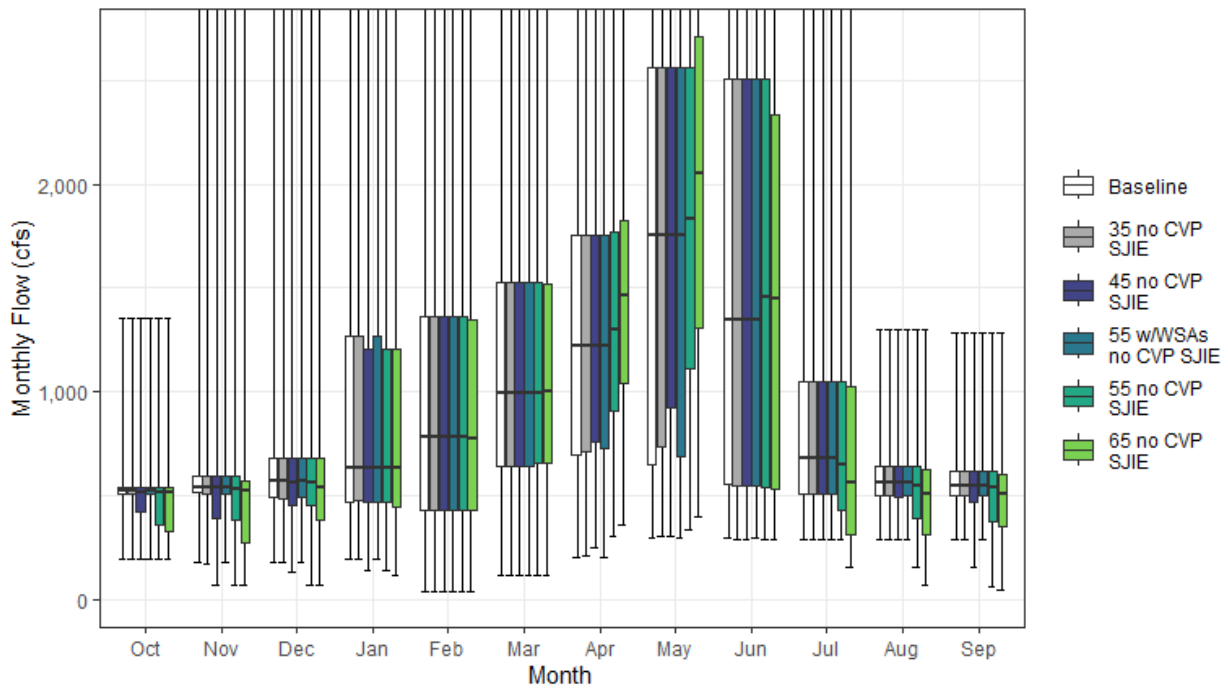

Figure H1a4-22. Mokelumne River Streamflow above Pardee Reservoir Monthly Boxplot (cfs)

Table H1a4-43. Cumulative Distribution of Monthly Flow (cfs) — Mokelumne River above Pardee Reservoir (SWRCB Pardee Inflow)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	195	178	179	196	33	116	201	295	291	287	285	288	170
10%	350	250	307	270	264	362	347	341	500	493	475	414	301
25%	504	513	488	466	429	642	694	645	552	505	496	497	412
50%	519	541	567	636	785	989	1,224	1,756	1,343	677	563	550	656
75%	539	593	681	1,269	1,360	1,523	1,756	2,561	2,509	1,048	641	615	961
90%	554	792	1,660	1,926	2,128	2,149	2,194	3,265	3,472	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,921	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	513	598	801	971	1,049	1,152	1,308	1,777	1,779	862	594	571	722
35 no CVP SJIE													
0%	195	169	179	196	33	116	211	305	288	287	285	288	171
10%	333	236	292	270	264	362	460	502	481	407	374	361	302
25%	503	505	486	479	429	642	707	736	546	505	496	497	417
50%	519	537	567	636	785	989	1,222	1,756	1,343	677	563	549	656
75%	539	593	681	1,269	1,360	1,523	1,756	2,561	2,509	1,048	641	615	961
90%	554	792	1,660	1,926	2,128	2,149	2,194	3,265	3,470	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,920	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	506	587	797	971	1,048	1,152	1,330	1,808	1,772	855	587	563	722
45 no CVP SJIE													
0%	192	72	129	135	33	116	246	305	288	287	285	156	167
10%	319	222	287	269	264	362	591	581	347	321	359	343	303
25%	423	386	450	471	430	642	757	922	545	504	493	470	425
50%	515	536	564	636	785	989	1,222	1,756	1,343	677	563	549	649
75%	539	590	681	1,205	1,360	1,523	1,756	2,561	2,509	1,048	637	615	961
90%	552	792	1,660	1,926	2,128	2,149	2,194	3,243	3,462	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,920	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	486	573	791	966	1,047	1,151	1,369	1,859	1,763	845	580	550	722
55 w/WSAs no CVP SJIE													
0%	195	178	179	196	33	116	201	295	291	287	285	288	165
10%	335	238	304	270	264	362	399	484	499	486	397	362	302
25%	503	510	488	466	429	642	723	690	549	505	496	497	417
50%	519	537	567	636	785	989	1,224	1,756	1,343	677	563	549	656
75%	539	590	681	1,269	1,360	1,523	1,756	2,561	2,509	1,048	641	615	961
90%	554	792	1,660	1,926	2,128	2,149	2,194	3,265	3,470	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,920	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	508	591	799	970	1,048	1,152	1,324	1,788	1,777	859	591	567	722
55 no CVP SJIE													
0%	192	68	71	135	33	116	300	333	288	287	154	58	157
10%	272	213	263	265	264	382	690	711	311	296	290	292	313
25%	355	381	450	471	430	653	910	1,107	540	431	386	375	431
50%	515	532	560	636	785	989	1,299	1,832	1,454	650	544	542	633
75%	538	590	678	1,205	1,360	1,524	1,771	2,561	2,509	1,048	637	615	958
90%	553	792	1,660	1,926	2,128	2,150	2,194	3,233	3,462	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,920	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	473	558	780	962	1,047	1,154	1,429	1,942	1,740	823	554	522	723
65 no CVP SJIE													
0%	192	68	71	115	33	116	355	394	288	151	72	45	157
10%	200	198	239	265	264	429	785	839	311	295	289	288	313
25%	330	275	383	441	431	657	1,036	1,309	532	311	308	351	436
50%	511	523	537	634	770	1,003	1,466	2,047	1,447	562	510	505	645
75%	537	570	677	1,205	1,349	1,518	1,821	2,709	2,337	1,022	626	599	949
90%	553	792	1,660	1,926	2,128	2,144	2,261	3,468	3,449	1,435	786	724	1,235
100%	1,356	3,382	3,947	5,738	6,892	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,944
Mean	450	533	756	951	1,046	1,162	1,523	2,101	1,668	788	520	489	723

Table H1a4-44. Water Year Average of Monthly Flows (cfs) — Mokelumne River above Pardee Reservoir (SWRCB Pardee Inflow)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	474	411	385	342	279	365	363	430	587	428	403	401
D	492	518	549	484	564	764	844	955	912	554	506	506
BN	494	549	606	662	893	1,018	1,254	1,514	1,440	704	563	545
AN	490	732	835	1,253	1,260	1,496	1,509	2,230	1,871	894	598	591
W	571	735	1,316	1,747	1,828	1,804	2,105	3,082	3,230	1,408	777	716
All	513	598	801	971	1,049	1,152	1,308	1,777	1,779	862	594	571
35 no CVP SJIE												
C	463	399	374	345	279	368	463	535	551	397	375	369
D	476	493	546	488	563	764	870	1,013	903	545	498	495
BN	489	540	603	662	892	1,018	1,258	1,524	1,440	704	563	545
AN	487	731	828	1,253	1,260	1,496	1,509	2,230	1,871	894	598	591
W	569	728	1,316	1,743	1,828	1,803	2,105	3,081	3,230	1,408	777	716
All	506	587	797	971	1,048	1,152	1,330	1,808	1,772	855	587	563
45 no CVP SJIE												
C	427	368	364	343	286	376	553	648	514	370	364	334
D	449	476	534	482	563	764	945	1,142	894	522	475	465
BN	478	538	595	662	889	1,016	1,299	1,553	1,440	702	562	540
AN	487	721	828	1,243	1,257	1,494	1,506	2,229	1,869	894	598	591
W	549	716	1,316	1,736	1,825	1,797	2,105	3,077	3,228	1,408	777	716
All	486	573	791	966	1,047	1,151	1,369	1,859	1,763	845	580	550
55 w/WSAs no CVP SJIE												
C	458	407	380	345	279	365	381	449	586	421	395	391
D	484	507	549	484	564	764	882	996	903	545	502	498
BN	494	540	604	662	892	1,018	1,271	1,517	1,440	704	563	545
AN	487	732	835	1,253	1,260	1,496	1,520	2,220	1,872	893	598	590
W	569	726	1,316	1,743	1,828	1,803	2,105	3,081	3,229	1,408	777	716
All	508	591	799	970	1,048	1,152	1,324	1,788	1,777	859	591	567
55 no CVP SJIE												
C	401	351	354	335	292	399	654	781	499	338	314	260
D	436	457	522	478	563	764	1,070	1,316	858	467	419	417
BN	472	521	578	657	888	1,016	1,373	1,659	1,394	676	535	515
AN	476	698	804	1,234	1,251	1,490	1,520	2,248	1,836	892	595	589
W	536	711	1,314	1,736	1,825	1,795	2,105	3,077	3,228	1,408	777	716
All	473	558	780	962	1,047	1,154	1,429	1,942	1,740	823	554	522
65 no CVP SJIE												
C	380	309	309	319	302	435	762	917	501	297	240	202
D	421	436	501	467	562	771	1,228	1,537	768	422	374	364
BN	442	498	562	650	888	1,027	1,525	1,909	1,265	606	488	475
AN	427	670	775	1,230	1,240	1,483	1,585	2,469	1,738	860	578	562
W	523	691	1,297	1,722	1,821	1,793	2,119	3,119	3,178	1,404	773	712
All	450	533	756	951	1,046	1,162	1,523	2,101	1,668	788	520	489

H1a4.2.23 Mokelumne River below Camanche Reservoir (SWRCB Camanche)

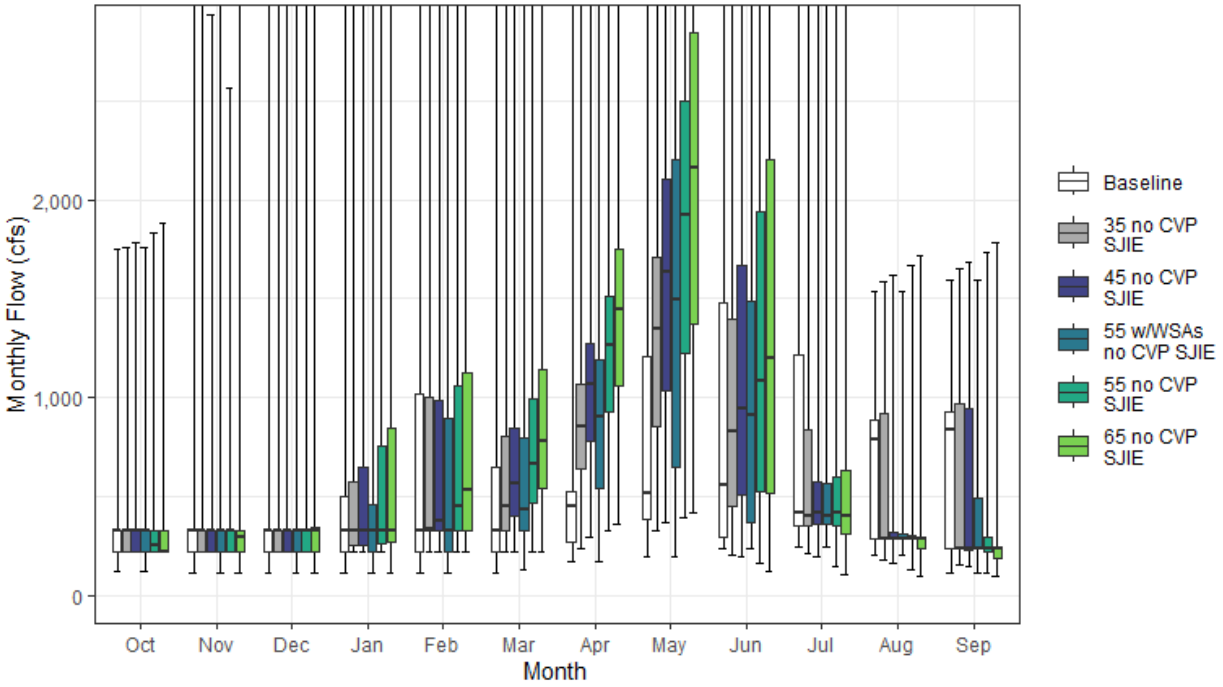

Figure H1a4-23. Mokelumne River Streamflow below Camanche Reservoir Monthly Boxplot (cfs)

Table H1a4-45. Cumulative Distribution of Monthly Flow (cfs) — Mokelumne River below Camanche Reservoir (SWRCB Camanche)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	124	115	115	115	115	116	169	198	234	245	204	115	116
10%	220	220	220	220	220	220	170	198	234	286	233	190	172
25%	220	221	220	220	221	221	270	388	292	355	287	239	224
50%	326	326	325	325	326	325	450	518	553	417	787	838	345
75%	326	326	326	503	1,019	649	526	1,204	1,481	1,214	889	929	700
90%	552	409	1,683	1,977	2,173	1,629	1,818	2,616	2,153	1,559	1,021	1,040	1,028
100%	1,754	4,173	3,898	6,084	7,129	3,423	4,346	4,141	4,432	2,998	1,538	1,593	1,751
Mean	344	389	591	724	792	626	655	988	960	807	618	630	490
35 no CVP SJIE													
0%	220	220	220	220	220	220	237	329	202	210	177	153	170
10%	220	220	220	220	221	302	490	555	285	259	204	174	228
25%	220	221	220	250	325	326	642	853	449	350	287	239	293
50%	325	326	325	325	335	453	854	1,344	829	401	288	240	386
75%	326	326	326	570	1,001	803	1,064	1,712	1,399	837	915	970	720
90%	571	461	1,683	1,950	1,880	1,629	1,816	2,639	2,141	1,619	1,070	1,100	1,022
100%	1,754	4,204	3,898	6,083	7,129	3,390	4,346	4,155	4,476	3,059	1,587	1,652	1,717
Mean	344	398	589	743	814	720	989	1,452	1,052	685	516	567	535
45 no CVP SJIE													
0%	220	220	220	220	220	220	296	371	193	192	163	143	180
10%	220	220	220	220	221	326	599	659	325	262	200	172	245
25%	220	221	220	249	325	400	780	1,038	504	356	287	231	325
50%	325	326	325	325	376	568	1,064	1,633	940	415	288	240	444
75%	326	326	326	645	986	845	1,269	2,107	1,668	574	314	944	735
90%	560	494	1,531	1,950	1,633	1,629	1,819	2,749	2,215	1,647	1,076	1,108	1,037
100%	1,781	2,932	3,898	6,085	7,128	3,403	4,348	4,180	4,505	3,089	1,617	1,682	1,710
Mean	338	380	571	753	809	781	1,150	1,684	1,169	622	454	495	555
55 w/WSAs no CVP SJIE													
0%	124	115	115	115	115	127	169	198	234	245	204	116	150
10%	220	220	220	220	220	220	244	333	234	286	233	190	172
25%	220	220	220	220	221	325	539	649	368	355	287	239	279
50%	326	325	325	325	325	437	899	1,497	912	401	288	240	379
75%	326	326	326	458	893	792	1,191	2,204	1,488	566	307	493	692
90%	546	331	1,530	1,950	1,892	1,630	1,877	2,790	2,549	1,146	997	1,040	1,006
100%	1,754	3,887	3,898	6,085	7,129	3,412	4,345	4,140	4,432	2,998	1,538	1,592	1,684
Mean	327	369	553	698	753	687	979	1,558	1,079	585	422	429	509
55 no CVP SJIE													
0%	220	220	220	220	220	220	323	395	161	148	129	116	186
10%	220	220	220	220	228	326	701	787	328	215	181	155	262
25%	220	220	221	258	326	467	929	1,227	525	350	287	220	354
50%	251	325	326	326	451	663	1,266	1,922	1,083	419	287	240	495
75%	326	326	326	757	1,056	996	1,508	2,498	1,938	602	305	297	768
90%	611	409	1,204	1,950	1,674	1,630	1,924	2,976	2,550	1,330	1,084	1,127	1,045
100%	1,831	2,567	3,800	6,085	7,129	3,147	4,347	4,231	4,556	3,138	1,668	1,732	1,728
Mean	343	375	559	758	843	860	1,313	1,926	1,312	584	405	421	585
65 no CVP SJIE													
0%	220	115	115	115	220	220	362	414	120	100	100	100	194
10%	220	220	220	220	245	339	795	902	293	130	106	100	254
25%	220	220	221	265	326	543	1,062	1,374	517	308	235	188	372
50%	221	292	326	326	533	777	1,442	2,163	1,199	405	287	239	557
75%	326	326	341	843	1,126	1,145	1,746	2,844	2,200	633	292	245	806
90%	611	404	1,183	1,948	1,848	1,778	2,162	3,410	2,918	972	458	1,147	1,064
100%	1,881	3,030	3,364	6,083	7,101	3,147	4,348	4,320	4,714	3,066	1,717	1,783	1,757
Mean	339	375	555	757	889	953	1,476	2,164	1,461	546	329	365	615

Table H1a4-46. Water Year Average of Monthly Flows (cfs) — Mokelumne River below Camanche Reservoir (SWRCB Camanche)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	261	247	246	246	247	247	205	269	241	282	230	189
D	284	295	277	277	278	278	295	430	368	392	330	290
BN	351	328	388	337	435	377	465	606	725	635	548	631
AN	292	602	579	779	798	696	563	972	1,009	923	769	850
W	449	486	1,138	1,530	1,684	1,213	1,317	2,029	1,905	1,454	1,021	1,025
All	344	389	591	724	792	626	655	988	960	807	618	630
35 no CVP SJIE												
C	267	258	257	257	270	295	465	584	388	262	215	181
D	288	304	295	282	317	403	767	1,021	567	354	276	255
BN	365	322	382	335	456	519	943	1,308	861	429	331	412
AN	290	630	597	852	878	850	907	1,611	1,086	681	505	692
W	434	495	1,109	1,557	1,669	1,255	1,492	2,259	1,870	1,318	975	1,050
All	344	398	589	743	814	720	989	1,452	1,052	685	516	567
45 no CVP SJIE												
C	268	251	248	248	278	327	578	714	427	255	206	174
D	291	304	298	285	346	486	940	1,257	653	359	273	222
BN	354	313	373	342	476	611	1,174	1,582	1,006	432	297	294
AN	281	512	579	886	883	921	1,124	1,931	1,211	572	392	517
W	424	492	1,067	1,574	1,612	1,291	1,605	2,479	2,029	1,153	842	985
All	338	380	571	753	809	781	1,150	1,684	1,169	622	454	495
55 w/WSAs no CVP SJIE												
C	260	247	246	246	246	247	254	310	251	282	230	189
D	275	278	269	272	274	347	646	934	524	365	280	230
BN	340	309	369	321	427	489	970	1,390	882	417	290	272
AN	265	561	563	700	775	754	1,056	1,938	1,143	566	407	489
W	416	462	1,037	1,490	1,572	1,271	1,586	2,636	2,028	1,022	718	780
All	327	369	553	698	753	687	979	1,558	1,079	585	422	429
55 no CVP SJIE												
C	271	255	250	249	298	370	680	843	449	220	177	153
D	294	293	304	290	381	574	1,119	1,486	722	350	264	218
BN	358	316	361	361	555	728	1,378	1,845	1,143	440	290	238
AN	268	469	580	909	913	1,051	1,349	2,276	1,380	546	310	358
W	437	497	1,027	1,564	1,628	1,339	1,737	2,737	2,286	1,056	739	854
All	343	375	559	758	843	860	1,313	1,926	1,312	584	405	421
65 no CVP SJIE												
C	242	237	242	240	315	420	777	959	454	164	135	124
D	296	283	310	300	423	655	1,276	1,682	768	310	237	199
BN	365	318	348	384	639	839	1,575	2,095	1,277	431	283	233
AN	263	493	498	939	969	1,218	1,542	2,587	1,549	563	289	252
W	435	505	1,057	1,529	1,663	1,421	1,905	3,036	2,587	987	543	745
All	339	375	555	757	889	953	1,476	2,164	1,461	546	329	365

H1a4.2.24 Mokelumne River above Confluence with Delta (SWRCB Mokelumne River)

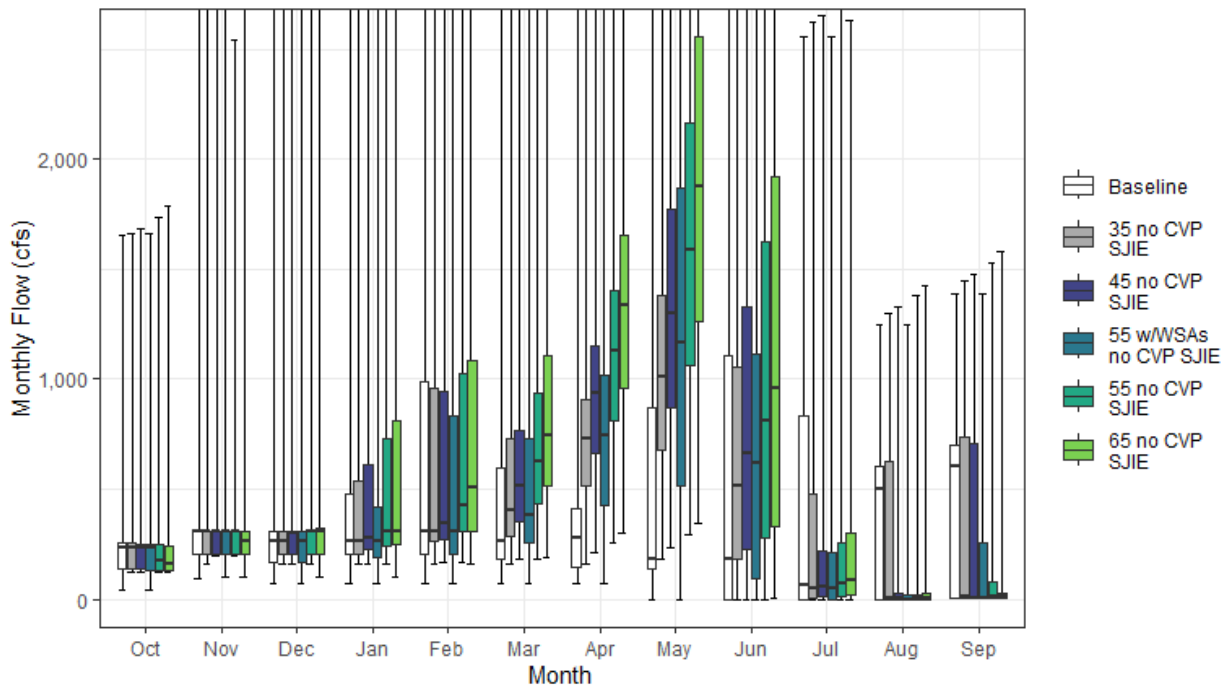

Figure H1a4-24. Mokelumne River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a4-47. Cumulative Distribution of Monthly Flow (cfs) — Mokelumne River above Confluence with Delta (SWRCB Mokelumne River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	42	97	75	75	75	75	72	0	0	0	0	2	35
10%	125	185	162	163	164	156	73	1	0	0	0	7	78
25%	136	202	164	205	205	184	147	135	1	1	0	7	116
50%	231	305	267	268	308	264	279	186	182	62	499	605	229
75%	260	306	308	481	988	596	415	871	1,108	830	602	699	578
90%	473	387	1,635	1,932	2,134	1,557	1,707	2,300	1,779	1,123	734	828	903
100%	1,658	4,108	3,879	6,063	7,106	3,328	4,241	3,806	4,057	2,560	1,250	1,390	1,629
Mean	257	361	549	683	759	559	529	687	636	450	342	413	375
35 no CVP SJIE													
0%	125	161	162	163	162	160	164	185	0	0	0	2	102
10%	126	201	164	165	203	247	395	425	67	0	0	7	148
25%	136	203	202	205	267	286	519	678	181	8	0	7	192
50%	231	305	267	268	308	401	730	1,011	515	46	5	10	278
75%	259	307	308	541	959	727	908	1,379	1,055	482	628	737	600
90%	493	437	1,624	1,932	1,822	1,573	1,705	2,323	1,767	1,183	782	889	904
100%	1,658	4,179	3,878	6,062	7,106	3,336	4,240	3,820	4,101	2,621	1,299	1,450	1,590
Mean	256	371	549	701	780	663	865	1,184	751	339	244	351	425
45 no CVP SJIE													
0%	125	200	162	163	164	180	211	237	1	0	0	2	117
10%	126	201	181	165	205	283	508	547	86	1	0	7	165
25%	136	202	204	228	268	355	667	872	228	10	1	7	222
50%	231	305	300	280	348	514	938	1,300	662	60	5	9	334
75%	252	306	308	610	945	769	1,155	1,774	1,329	219	27	711	616
90%	469	435	1,480	1,900	1,583	1,576	1,708	2,442	1,841	1,211	788	878	916
100%	1,685	2,908	3,878	6,064	7,105	3,350	4,243	3,845	4,129	2,651	1,329	1,480	1,584
Mean	251	356	540	714	778	727	1,028	1,418	874	281	184	281	448
55 w/WSAs no CVP SJIE													
0%	42	98	75	75	75	75	72	0	0	0	0	2	64
10%	125	200	162	163	168	158	147	135	0	0	0	7	79
25%	133	201	164	192	205	258	429	519	92	1	0	7	178
50%	231	305	267	268	306	382	742	1,164	620	46	1	8	268
75%	251	306	308	419	835	730	1,017	1,870	1,115	210	20	260	566
90%	465	312	1,504	1,914	1,863	1,567	1,725	2,455	2,175	718	709	828	881
100%	1,658	3,822	3,871	6,064	7,106	3,329	4,240	3,805	4,057	2,560	1,250	1,390	1,560
Mean	239	346	515	656	718	627	853	1,275	771	236	146	211	397
55 no CVP SJIE													
0%	126	200	162	163	166	185	258	290	0	0	0	4	136
10%	126	200	202	184	213	289	621	668	104	1	0	7	187
25%	134	203	205	238	308	433	815	1,066	278	13	1	7	256
50%	175	305	307	308	426	628	1,131	1,588	809	72	5	9	400
75%	248	306	308	730	1,029	939	1,401	2,167	1,625	257	21	82	651
90%	519	390	1,177	1,896	1,621	1,577	1,767	2,641	2,177	908	796	894	923
100%	1,735	2,543	3,780	6,064	7,106	3,093	4,242	3,896	4,180	2,700	1,380	1,529	1,602
Mean	257	353	534	721	814	810	1,196	1,666	1,038	256	142	212	482
65 no CVP SJIE													
0%	126	101	101	101	162	192	305	343	4	0	0	7	157
10%	126	200	203	203	230	314	734	789	123	1	0	7	202
25%	132	202	206	250	308	512	962	1,259	328	18	0	7	292
50%	162	265	307	309	509	743	1,337	1,877	957	85	8	12	462
75%	241	307	322	809	1,082	1,105	1,655	2,556	1,919	303	25	27	694
90%	521	385	1,149	1,922	1,808	1,750	2,048	3,122	2,571	634	181	914	952
100%	1,785	3,007	3,343	6,022	7,078	3,093	4,242	4,031	4,338	2,628	1,429	1,580	1,639
Mean	254	355	533	727	861	915	1,384	1,942	1,220	255	85	168	524

Table H1a4-48. Water Year Average of Monthly Flows (cfs) — Mokelumne River above Confluence with Delta (SWRCB Mokelumne River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	174	227	203	200	214	204	105	59	0	1	2	6
D	197	268	232	236	251	209	156	138	77	47	51	71
BN	267	304	347	296	401	308	320	287	387	279	261	404
AN	204	571	541	732	765	621	436	639	657	541	481	629
W	361	452	1,099	1,492	1,648	1,140	1,197	1,698	1,533	1,055	734	800
All	257	361	549	683	759	559	529	687	636	450	342	413
35 no CVP SJIE												
C	178	235	214	205	237	259	384	465	185	12	3	7
D	200	282	256	234	288	347	636	801	301	21	0	36
BN	280	297	341	295	430	458	794	1,002	557	75	44	181
AN	202	593	563	815	841	785	774	1,277	754	306	218	471
W	343	467	1,069	1,519	1,626	1,190	1,372	1,928	1,505	927	687	824
All	256	371	549	701	780	663	865	1,184	751	339	244	351
45 no CVP SJIE												
C	180	232	214	201	249	289	494	597	239	15	4	8
D	203	281	271	244	320	434	817	1,030	387	27	1	7
BN	270	292	345	307	451	555	1,021	1,288	712	78	10	65
AN	195	489	553	851	847	862	995	1,604	892	210	105	296
W	333	463	1,031	1,537	1,574	1,231	1,485	2,149	1,667	765	555	758
All	251	356	540	714	778	727	1,028	1,418	874	281	184	281
55 w/WSAs no CVP SJIE												
C	172	227	207	197	213	201	153	117	10	1	2	6
D	187	258	234	235	239	286	516	690	236	19	0	7
BN	255	285	335	270	397	427	818	1,091	577	62	4	42
AN	178	538	526	665	741	691	923	1,604	824	204	120	268
W	327	436	994	1,449	1,532	1,206	1,466	2,305	1,670	642	430	553
All	239	346	515	656	718	627	853	1,275	771	236	146	211
55 no CVP SJIE												
C	185	236	227	205	275	337	603	730	291	20	6	10
D	210	274	283	258	356	526	999	1,258	473	33	2	8
BN	274	295	339	332	532	676	1,248	1,574	870	95	5	8
AN	182	449	558	869	881	999	1,216	1,960	1,090	196	23	138
W	347	472	995	1,523	1,588	1,280	1,617	2,405	1,937	671	452	629
All	257	353	534	721	814	810	1,196	1,666	1,038	256	142	212
65 no CVP SJIE												
C	162	219	224	215	295	392	713	862	345	26	15	19
D	213	264	292	280	403	621	1,180	1,487	558	40	4	10
BN	282	299	329	357	617	801	1,474	1,860	1,028	112	6	8
AN	180	474	478	907	939	1,181	1,436	2,316	1,287	232	11	31
W	347	481	1,024	1,492	1,622	1,374	1,813	2,752	2,267	635	261	519
All	254	355	533	727	861	915	1,384	1,942	1,220	255	85	168

H1a4.2.25 Paynes Creek above Confluence with Sacramento River

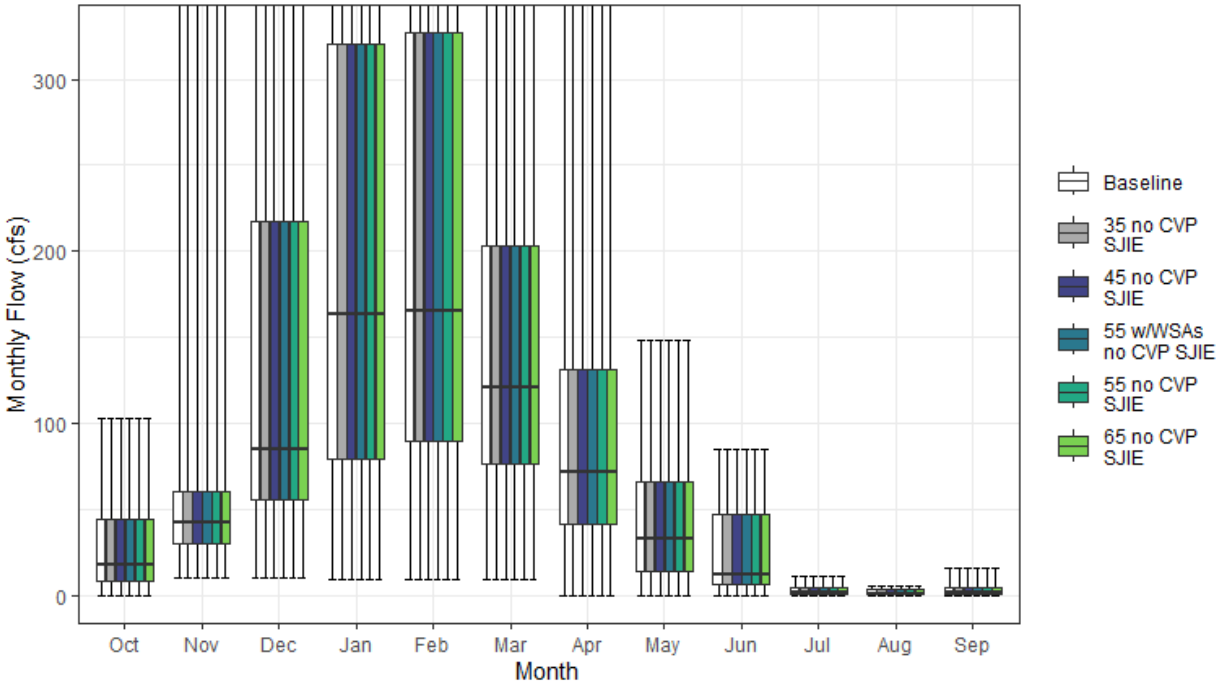

Figure H1a4-25. Paynes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-49. Cumulative Distribution of Monthly Flow (cfs) — Paynes Creek above Confluence with Sacramento River

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61
35 no CVP SJIE													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61
45 no CVP SJIE													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61
55 w/WSAs no CVP SJIE													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61
55 no CVP SJIE													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61
65 no CVP SJIE													
0%	0	10	10	9	9	9	0	0	0	0	0	0	3
10%	5	22	36	49	64	50	23	8	3	0	0	0	23
25%	8	30	55	79	90	76	41	13	6	1	1	1	35
50%	17	43	84	164	165	121	71	33	12	2	1	2	52
75%	44	60	217	321	327	203	131	66	47	4	4	5	85
90%	48	100	371	466	477	337	183	91	53	5	4	5	110
100%	102	381	572	934	900	594	430	148	84	11	5	16	139
Mean	26	57	150	216	234	161	94	44	25	3	2	3	61

Table H1a4-50. Water Year Average of Monthly Flows (cfs) — Paynes Creek above Confluence with Sacramento River

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3
35 no CVP SJIE												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3
45 no CVP SJIE												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3
55 w/WSAs no CVP SJIE												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3
55 no CVP SJIE												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3
65 no CVP SJIE												
C	14	31	61	63	70	57	22	8	2	1	0	0
D	24	51	104	95	145	117	47	18	7	1	1	1
BN	25	44	102	161	220	152	97	31	12	1	1	2
AN	23	51	119	280	294	205	105	63	40	4	3	5
W	36	86	275	397	370	237	162	84	54	5	4	5
All	26	57	150	216	234	161	94	44	25	3	2	3

H1a4.2.26 Putah Creek below Lake Berryessa (SWRCB Lake Berryessa)

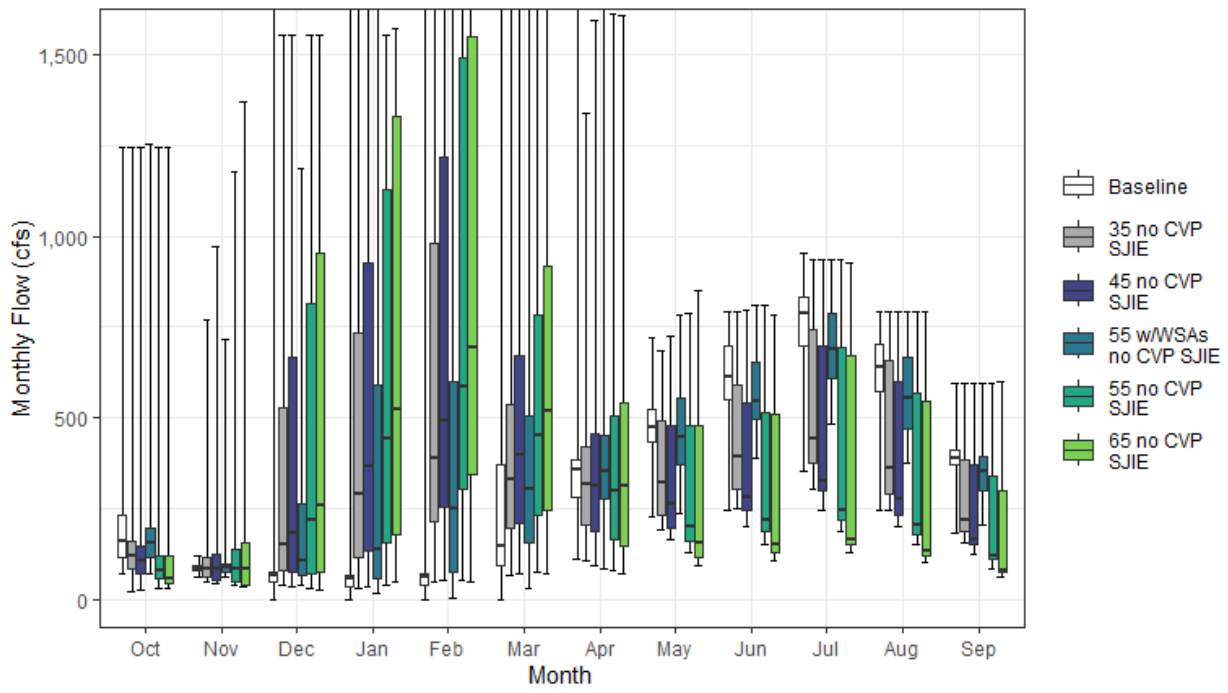

Figure H1a4-26. Putah Creek Streamfow below Lake Berryessa Monthly Boxplot (cfs)

Table H1a4-51. Cumulative Distribution of Monthly Flow (cfs) — Putah Creek below Lake Berryessa (SWRCB Lake Berryessa)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	71	63	0	0	0	0	110	229	245	352	246	180	112
10%	110	77	22	2	4	68	143	397	526	660	535	337	218
25%	117	81	47	36	40	93	280	433	552	700	572	373	225
50%	161	85	64	57	59	148	357	475	613	786	642	390	233
75%	232	92	74	67	71	372	382	526	700	831	701	410	252
90%	266	102	79	127	713	1,057	693	597	752	860	731	431	474
100%	1,246	120	2,006	5,183	6,718	6,316	3,624	720	792	955	794	596	1,050
Mean	182	87	77	214	375	462	475	481	626	765	630	388	288
35 no CVP SJIE													
0%	19	48	39	31	48	64	108	191	249	304	246	154	126
10%	64	54	51	63	82	136	183	217	273	339	277	180	148
25%	85	61	77	114	213	194	206	233	301	375	292	187	186
50%	121	84	153	292	390	328	317	320	395	443	361	219	240
75%	162	113	528	733	979	537	419	492	591	742	656	384	361
90%	227	246	847	1,325	1,438	908	654	602	703	840	705	425	470
100%	1,244	768	1,554	2,995	5,289	6,316	1,338	686	790	938	794	596	1,022
Mean	140	122	333	503	667	499	378	375	456	553	458	281	287
45 no CVP SJIE													
0%	24	43	34	33	52	68	93	163	201	246	199	123	102
10%	54	47	45	71	95	140	155	181	222	270	218	144	127
25%	70	53	75	134	255	208	185	194	244	298	233	149	179
50%	105	82	185	366	494	398	312	264	281	328	276	162	230
75%	146	124	669	928	1,220	669	458	477	542	700	598	373	378
90%	174	294	1,090	1,550	1,550	1,143	704	624	665	817	698	421	476
100%	1,246	973	1,554	1,975	4,814	6,316	1,594	726	798	935	794	596	939
Mean	125	134	408	582	712	571	393	342	394	477	395	242	287
55 w/WSAs no CVP SJIE													
0%	69	60	40	16	4	32	85	238	390	484	375	205	166
10%	92	67	54	43	47	82	225	322	433	535	441	286	178
25%	116	74	67	57	74	156	278	371	498	608	471	299	208
50%	158	86	107	136	249	303	354	448	545	690	555	354	260
75%	194	97	263	590	601	503	452	554	651	789	666	395	331
90%	238	167	716	750	750	750	680	630	731	838	711	424	422
100%	1,254	717	1,186	2,698	5,464	6,316	2,516	786	811	935	794	596	1,001
Mean	167	112	224	324	451	442	416	464	569	690	570	351	289
55 no CVP SJIE													
0%	30	38	29	39	51	76	81	129	153	189	151	82	82
10%	45	42	40	73	108	142	128	143	170	206	164	109	116
25%	57	47	73	157	304	231	166	159	187	221	177	113	167
50%	81	84	219	443	586	453	298	202	220	244	205	120	237
75%	121	136	814	1,129	1,494	785	504	478	514	692	567	341	386
90%	165	329	1,330	1,550	1,550	1,396	785	647	665	813	698	421	501
100%	1,246	1,178	1,554	1,554	4,004	4,520	1,615	786	809	938	794	596	845
Mean	111	147	473	653	777	614	407	314	338	407	338	207	288
65 no CVP SJIE													
0%	31	33	25	47	49	68	72	91	105	131	101	60	62
10%	36	36	36	82	122	138	95	103	120	138	112	71	104
25%	43	41	76	179	345	247	148	116	130	150	119	76	163
50%	57	83	259	524	693	520	314	156	150	164	135	81	235
75%	120	154	955	1,329	1,550	916	539	478	508	672	548	298	399
90%	163	371	1,542	1,550	1,550	1,550	887	661	664	798	690	408	518
100%	1,246	1,371	1,554	1,571	3,277	3,745	1,608	849	785	929	794	598	816
Mean	97	160	527	719	826	670	422	288	286	340	284	173	288

Table H1a4-52. Water Year Average of Monthly Flows (cfs) — Putah Creek below Lake Berryessa (SWRCB Lake Berryessa)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	154	90	64	53	83	208	307	462	582	689	598	373
D	176	89	58	59	62	149	330	469	649	766	604	378
BN	183	85	65	46	173	151	303	476	642	775	625	382
AN	171	89	59	33	38	257	317	459	676	750	662	400
W	207	85	112	594	1,021	1,105	844	512	601	803	658	404
All	182	87	77	214	375	462	475	481	626	765	630	388
35 no CVP SJIE												
C	110	67	135	158	223	233	185	253	312	365	311	197
D	126	105	219	188	345	279	279	315	416	482	384	239
BN	139	86	207	330	499	347	300	320	400	476	384	234
AN	117	122	351	728	772	449	371	379	532	585	514	309
W	176	186	594	939	1,203	918	607	517	567	742	613	374
All	140	122	333	503	667	499	378	375	456	553	458	281
45 no CVP SJIE												
C	92	59	157	195	271	245	157	201	245	286	244	153
D	106	112	271	231	431	333	263	258	332	382	306	190
BN	121	87	251	419	619	425	310	279	335	394	321	194
AN	101	135	424	844	928	563	386	342	427	478	412	252
W	167	219	735	1,045	1,127	1,016	669	520	542	702	582	356
All	125	134	408	582	712	571	393	342	394	477	395	242
55 w/WSAs no CVP SJIE												
C	143	81	88	123	106	190	274	408	518	615	526	331
D	154	99	155	150	213	231	333	448	611	719	570	355
BN	165	87	162	197	260	219	293	397	524	630	510	310
AN	157	107	219	324	433	409	411	426	599	660	587	352
W	194	158	390	640	937	886	631	564	583	758	624	383
All	167	112	224	324	451	442	416	464	569	690	570	351
55 no CVP SJIE												
C	74	52	179	233	311	259	135	158	188	217	184	115
D	91	120	323	277	504	385	250	209	252	290	230	142
BN	103	89	296	508	710	502	314	229	257	296	244	148
AN	86	149	482	943	1,054	677	412	319	351	392	339	208
W	159	253	847	1,129	1,157	1,015	723	525	526	671	559	341
All	111	147	473	653	777	614	407	314	338	407	338	207
65 no CVP SJIE												
C	57	46	202	271	354	259	113	115	131	147	124	78
D	78	128	366	323	566	438	240	164	179	205	160	98
BN	81	91	334	598	779	576	324	187	189	211	176	106
AN	73	165	541	1,025	1,113	793	433	301	284	310	273	165
W	151	288	934	1,203	1,184	1,072	778	530	508	637	533	324
All	97	160	527	719	826	670	422	288	286	340	284	173

H1a4.2.27 Putah Creek above Yolo Bypass (SWRCB Putah Creek)

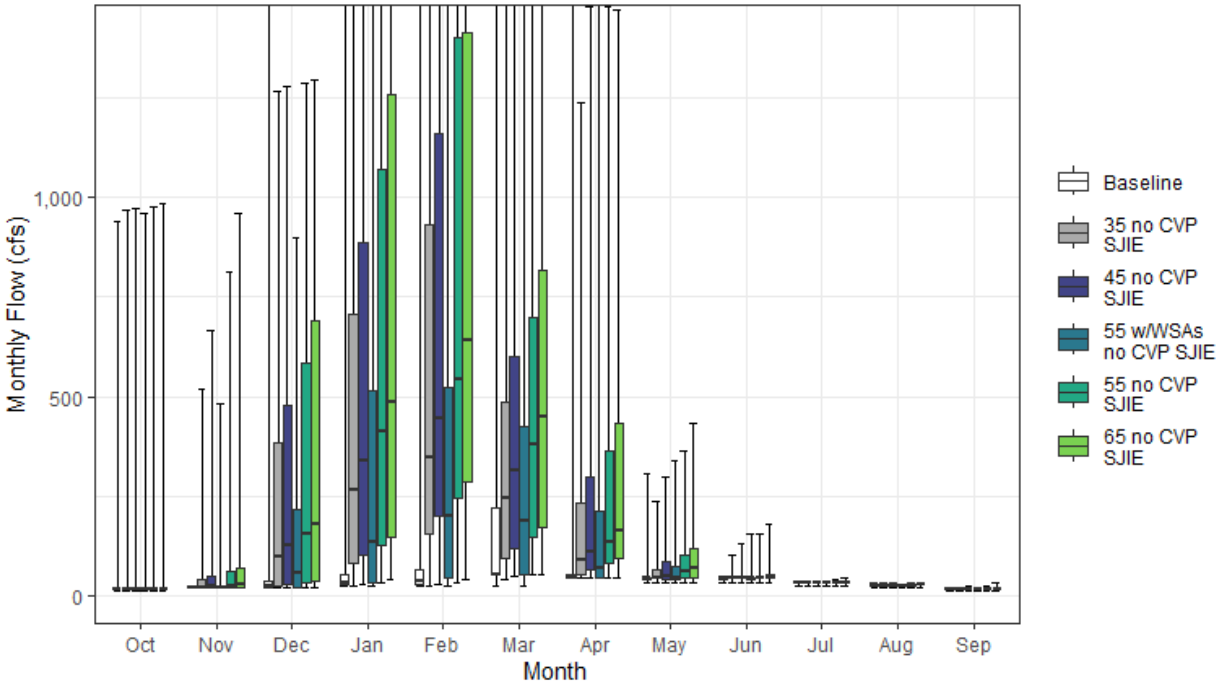

Figure H1a4-27. Putah Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a4-53. Cumulative Distribution of Monthly Flow (cfs) — Putah Creek above Yolo Bypass (SWRCB Putah Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	11	18	18	22	23	24	43	31	31	24	19	11	18
10%	14	18	20	24	23	50	43	33	33	25	20	12	21
25%	15	19	21	26	26	50	44	40	42	32	25	14	23
50%	16	20	24	32	37	52	46	43	43	33	26	16	24
75%	17	20	34	51	63	218	48	44	44	34	27	17	49
90%	17	21	51	250	600	934	392	45	44	34	27	17	268
100%	942	23	1,491	4,834	6,207	5,724	3,391	307	45	34	28	21	773
Mean	26	20	47	198	333	351	226	46	42	32	25	15	81
35 no CVP SJIE													
0%	11	18	18	25	23	39	44	32	32	25	19	11	23
10%	14	19	20	41	53	53	46	42	40	32	25	14	39
25%	16	20	24	79	154	92	51	43	42	32	25	16	57
50%	16	21	98	265	348	243	88	44	43	33	26	16	101
75%	17	39	385	706	931	486	233	64	43	33	26	16	184
90%	18	140	630	1,209	1,322	813	552	130	45	34	27	17	254
100%	967	518	1,267	2,876	4,928	5,724	1,238	235	102	34	28	21	740
Mean	27	57	241	467	607	407	206	66	44	33	25	16	131
45 no CVP SJIE													
0%	11	18	18	27	28	48	43	31	31	24	19	11	23
10%	14	19	20	53	65	65	45	40	42	31	25	14	46
25%	16	20	26	101	198	118	65	41	42	32	25	15	69
50%	16	21	125	337	445	313	109	49	43	33	26	16	126
75%	17	49	478	887	1,161	599	299	83	44	33	26	16	222
90%	19	182	812	1,418	1,459	1,019	644	169	51	34	27	17	275
100%	974	666	1,280	1,963	4,503	5,724	1,479	297	128	34	28	21	663
Mean	28	71	299	542	652	479	244	77	46	32	25	16	150
55 w/WSAs no CVP SJIE													
0%	11	18	18	22	23	24	43	31	31	24	19	11	19
10%	14	18	19	23	28	50	43	40	40	31	25	14	22
25%	16	18	21	31	46	50	44	40	42	31	25	15	30
50%	16	20	55	134	200	186	68	43	42	32	25	16	70
75%	17	24	214	516	524	426	212	72	44	33	26	16	127
90%	17	83	531	692	746	683	508	155	50	34	27	17	189
100%	960	481	900	2,610	5,085	5,724	2,324	339	156	36	28	21	723
Mean	26	43	157	300	406	341	193	72	46	32	25	15	99
55 no CVP SJIE													
0%	12	18	19	33	33	50	43	31	31	24	19	11	25
10%	15	19	20	65	80	79	44	40	42	32	25	14	54
25%	16	20	31	124	242	144	79	42	42	32	25	16	83
50%	16	24	152	412	542	381	136	59	43	33	26	16	151
75%	17	59	582	1,073	1,404	697	364	101	46	33	26	17	228
90%	22	221	989	1,450	1,467	1,245	659	207	61	34	27	17	299
100%	979	814	1,288	1,658	3,778	4,116	1,479	364	156	39	28	21	577
Mean	29	84	349	609	715	524	280	90	49	32	26	16	168
65 no CVP SJIE													
0%	12	18	19	39	39	50	43	31	32	24	19	11	26
10%	16	19	20	77	94	94	44	40	42	32	25	14	61
25%	16	20	36	146	285	170	93	42	42	32	26	16	96
50%	16	29	179	487	640	450	162	69	43	33	26	16	169
75%	17	70	689	1,258	1,414	818	431	119	51	33	26	16	247
90%	26	261	1,119	1,461	1,481	1,395	759	242	78	34	27	17	331
100%	984	962	1,296	1,662	3,128	3,429	1,470	432	180	46	33	30	551
Mean	29	98	391	671	764	582	317	104	52	33	26	16	185

Table H1a4-54. Water Year Average of Monthly Flows (cfs) — Putah Creek above Yolo Bypass (SWRCB Putah Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	15	20	27	35	34	48	45	39	39	30	24	14
D	16	20	29	29	35	49	46	42	42	32	26	16
BN	17	20	24	37	143	78	46	41	41	32	25	16
AN	16	19	36	57	54	190	47	65	43	33	26	16
W	48	20	90	565	942	971	640	47	43	33	26	15
All	26	20	47	198	333	351	226	46	42	32	25	15
35 no CVP SJIE												
C	16	20	91	143	181	128	52	42	41	31	25	15
D	16	45	155	156	300	195	97	49	42	33	26	16
BN	17	32	134	301	446	264	138	51	42	32	26	16
AN	17	59	259	692	724	376	166	80	43	33	26	16
W	51	103	446	883	1,114	813	426	94	49	33	25	16
All	27	57	241	467	607	407	206	66	44	33	25	16
45 no CVP SJIE												
C	17	21	111	181	230	158	55	42	41	31	25	15
D	16	54	196	199	380	250	118	52	42	32	26	16
BN	17	37	170	385	561	339	175	57	42	31	25	16
AN	18	74	316	800	868	484	212	100	45	33	26	16
W	53	130	550	981	1,049	904	493	119	54	33	26	16
All	28	71	299	542	652	479	244	77	46	32	25	16
55 w/WSAs no CVP SJIE												
C	15	19	48	103	63	50	44	39	39	30	24	14
D	16	33	103	116	174	133	63	44	41	31	25	15
BN	17	26	98	177	228	144	83	44	41	31	25	15
AN	17	37	155	321	412	331	166	80	43	33	26	16
W	50	76	293	610	870	778	448	124	56	33	26	16
All	26	43	157	300	406	341	193	72	46	32	25	15
55 no CVP SJIE												
C	17	22	132	220	279	191	61	43	41	31	25	15
D	16	64	237	243	449	306	142	57	43	32	26	16
BN	18	43	206	469	648	413	214	64	43	32	25	16
AN	19	89	361	893	985	591	259	121	49	33	26	16
W	54	158	634	1,059	1,078	906	548	144	61	33	26	16
All	29	84	349	609	715	524	280	90	49	32	26	16
65 no CVP SJIE												
C	18	24	153	259	328	209	67	46	42	31	25	15
D	16	73	271	287	507	361	166	62	44	32	26	17
BN	19	48	237	553	716	483	252	72	45	32	26	16
AN	21	104	407	970	1,041	698	306	144	53	34	26	16
W	56	186	699	1,128	1,106	960	605	170	68	34	26	16
All	29	98	391	671	764	582	317	104	52	33	26	16

H1a4.2.28 Sacramento River below Shasta Reservoir (SWRCB Shasta)

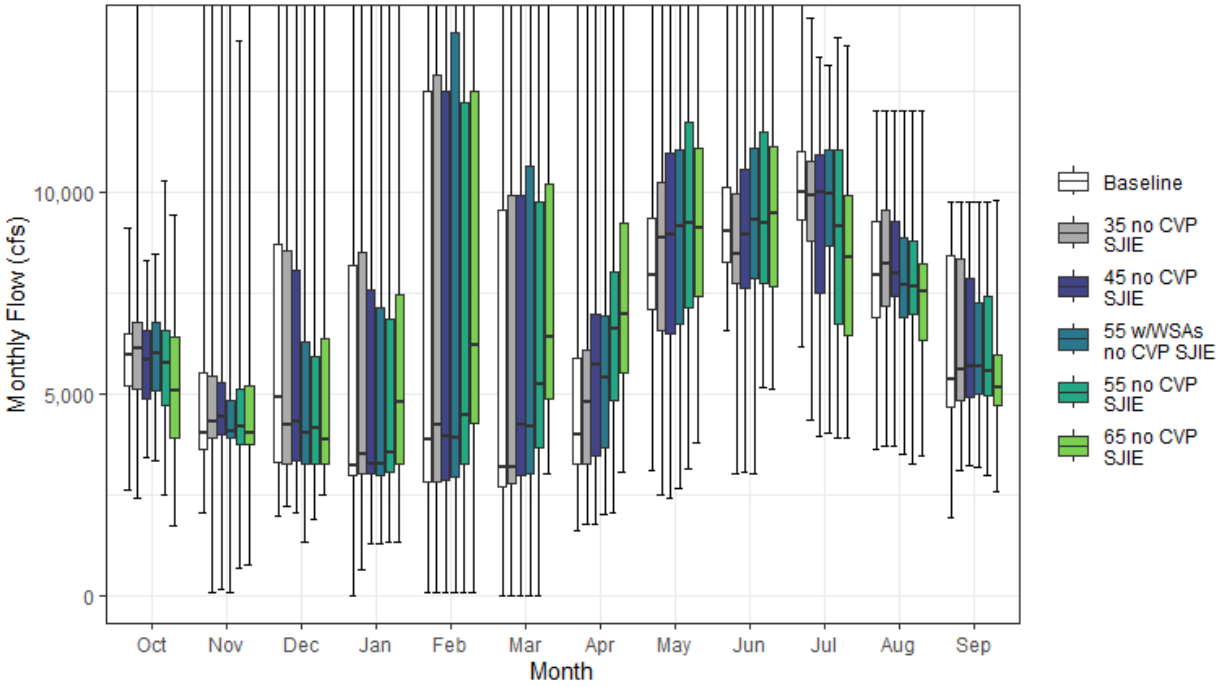

Figure H1a4-28. Sacramento River Streamflow below Shasta Reservoir Monthly Boxplot (cfs)

Table H1a4-55. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River below Shasta Reservoir (SWRCB Shasta)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	2,612	2,042	1,959	0	55	0	1,594	3,107	6,578	6,144	3,628	1,943	3,186
10%	4,518	3,251	2,971	2,327	2,014	2,143	3,195	5,770	7,681	8,434	5,794	3,809	3,750
25%	5,185	3,630	3,283	2,977	2,821	2,680	3,253	7,108	8,250	9,328	6,879	4,668	4,111
50%	5,972	4,035	4,899	3,228	3,877	3,194	3,999	7,951	9,026	10,010	7,923	5,360	4,865
75%	6,465	5,510	8,702	8,198	12,512	9,533	5,873	9,363	10,108	11,024	9,288	8,413	6,472
90%	7,021	7,312	16,111	18,606	28,490	17,885	10,673	10,992	11,976	12,756	10,844	8,873	8,283
100%	9,119	26,467	27,665	48,623	50,384	44,066	28,864	17,628	29,676	16,013	12,022	9,772	10,669
Mean	5,802	4,954	7,089	7,392	9,734	7,499	5,845	8,327	9,521	10,257	8,090	6,209	5,473
35 no CVP SJIE													
0%	2,423	77	2,217	634	55	0	1,743	2,501	3,000	4,326	3,686	3,111	3,147
10%	4,353	3,292	3,059	2,410	2,174	2,277	3,202	5,186	6,476	6,073	6,240	4,475	3,615
25%	5,112	3,919	3,248	2,999	2,832	2,758	3,253	6,566	7,723	8,801	7,171	4,812	4,091
50%	6,136	4,288	4,232	3,505	4,213	3,188	4,790	8,864	8,459	9,919	8,217	5,598	4,966
75%	6,755	5,428	8,560	8,482	12,884	9,911	6,086	10,237	9,954	10,751	9,563	8,335	6,479
90%	7,381	7,113	16,111	18,606	28,490	17,885	10,673	11,135	11,489	12,045	10,918	8,898	8,102
100%	16,341	26,318	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,317	12,022	9,772	10,669
Mean	6,027	4,988	6,855	7,535	9,758	7,651	6,119	8,585	8,995	9,504	8,327	6,362	5,472
45 no CVP SJIE													
0%	3,416	138	2,053	1,298	55	0	1,743	2,402	3,043	3,942	3,701	3,203	3,212
10%	4,417	3,482	3,102	2,493	2,351	2,540	3,252	5,520	6,399	5,874	6,295	4,391	3,531
25%	4,853	3,984	3,342	2,999	2,870	2,956	3,477	6,473	7,598	7,488	7,416	4,897	4,071
50%	5,828	4,413	4,311	3,250	3,926	4,235	5,734	8,934	8,955	9,976	7,982	5,684	4,899
75%	6,565	5,267	8,047	7,583	12,512	9,911	6,988	10,952	10,545	10,904	9,275	7,871	6,476
90%	7,187	6,348	14,490	18,606	28,490	17,885	10,673	11,749	11,820	11,890	10,754	8,665	8,104
100%	8,289	23,200	27,665	48,623	49,683	44,066	28,864	17,628	29,676	13,346	12,022	9,772	10,669
Mean	5,772	4,938	6,685	7,386	9,693	7,768	6,612	8,780	9,276	9,182	8,321	6,283	5,471
55 w/WSAs no CVP SJIE													
0%	3,334	85	1,332	1,298	55	0	1,986	2,667	2,996	4,036	3,502	3,187	2,880
10%	4,078	3,352	3,022	2,425	2,315	2,699	3,252	5,547	6,625	5,921	5,978	4,484	3,516
25%	5,075	3,888	3,261	2,985	2,919	3,000	3,671	6,738	7,859	8,674	6,885	5,002	4,153
50%	6,015	4,068	4,011	3,249	3,902	4,197	5,393	9,167	9,309	9,935	7,695	5,672	4,807
75%	6,778	4,842	6,282	7,143	13,947	10,637	6,919	11,059	11,075	11,034	8,877	7,232	6,558
90%	7,269	5,773	14,366	18,434	28,708	18,031	10,673	12,173	12,035	11,787	9,743	8,617	8,063
100%	8,471	24,203	27,665	48,623	49,683	44,066	28,864	17,628	29,676	13,142	12,022	9,772	10,669
Mean	5,893	4,582	6,341	7,252	9,811	8,030	6,584	9,062	9,506	9,464	7,884	6,230	5,467
55 no CVP SJIE													
0%	2,500	679	1,895	1,307	51	0	2,034	3,139	5,138	3,897	3,265	2,956	3,050
10%	3,920	3,251	3,143	2,829	2,887	3,133	3,694	6,075	6,799	5,501	6,106	4,394	3,529
25%	4,711	3,729	3,250	3,074	3,239	3,665	4,818	7,144	7,716	6,720	6,963	4,964	4,073
50%	5,769	4,197	4,135	3,558	4,457	5,218	6,605	9,240	9,242	9,142	7,647	5,545	4,927
75%	6,548	5,106	5,918	6,857	12,224	9,753	8,021	11,718	11,499	11,036	8,796	7,421	6,469
90%	7,237	6,128	11,788	17,533	26,006	16,824	10,673	12,734	12,850	12,846	10,484	8,682	8,161
100%	10,270	13,749	27,665	48,623	49,683	44,066	28,864	17,330	29,676	13,837	12,022	9,772	10,669
Mean	5,662	4,615	5,977	7,132	9,688	8,205	7,354	9,387	9,722	8,979	7,900	6,186	5,476
65 no CVP SJIE													
0%	1,707	773	2,492	1,316	50	3,013	3,043	3,762	5,116	3,897	3,455	2,556	3,145
10%	3,148	3,370	3,127	3,009	3,132	3,972	4,480	6,437	6,862	5,064	5,509	4,314	3,614
25%	3,908	3,751	3,239	3,237	4,253	4,878	5,518	7,403	7,660	6,433	6,319	4,692	3,974
50%	5,069	4,027	3,879	4,779	6,210	6,397	6,988	9,119	9,457	8,363	7,531	5,157	5,048
75%	6,404	5,213	6,383	7,468	12,490	10,214	9,235	11,091	11,116	9,896	8,222	5,941	6,706
90%	7,130	6,961	12,127	17,660	25,568	15,349	10,953	13,331	13,547	11,032	9,375	8,271	8,224
100%	9,413	16,904	27,648	48,624	45,687	44,067	28,113	14,862	28,464	13,629	12,025	9,775	10,671
Mean	5,181	4,724	5,852	7,672	10,280	8,881	7,983	9,419	9,730	8,136	7,445	5,580	5,477

Table H1a4-56. Water Year Average of Monthly Flows (cfs) — Sacramento River below Shasta Reservoir (SWRCB Shasta)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	5,189	4,062	4,462	3,704	2,615	3,395	4,153	7,594	9,076	8,773	7,457	4,999
D	6,058	4,385	4,745	3,324	2,919	3,566	3,975	7,933	10,336	10,000	7,385	4,434
BN	5,715	4,516	5,226	3,422	7,516	3,617	4,284	7,725	9,754	11,521	7,699	5,027
AN	5,604	5,320	5,651	6,910	13,926	8,677	4,934	9,173	8,687	11,669	7,199	7,354
W	6,077	5,979	11,964	15,049	18,255	14,559	9,474	9,049	9,348	9,873	9,549	8,445
All	5,802	4,954	7,089	7,392	9,734	7,499	5,845	8,327	9,521	10,257	8,090	6,209
35 no CVP SJIE												
C	6,025	4,430	4,241	4,023	2,872	3,510	4,281	5,917	6,644	6,047	7,776	5,112
D	5,937	4,796	4,744	3,570	2,798	3,677	4,859	9,004	9,437	9,095	8,080	4,971
BN	5,986	4,493	5,025	3,830	7,746	3,667	4,467	8,737	9,623	11,238	7,828	5,252
AN	6,004	4,848	5,088	6,996	14,395	9,432	5,060	9,421	8,893	10,963	7,300	7,250
W	6,129	5,796	11,664	14,878	17,954	14,586	9,493	9,269	9,567	9,966	9,528	8,396
All	6,027	4,988	6,855	7,535	9,758	7,651	6,119	8,585	8,995	9,504	8,327	6,362
45 no CVP SJIE												
C	5,301	4,455	3,975	3,321	3,354	3,915	4,454	6,010	6,507	5,662	7,893	4,898
D	5,582	4,820	4,470	3,520	2,859	3,914	5,908	8,161	8,936	8,493	8,306	5,081
BN	5,945	4,608	5,106	3,744	7,195	3,991	5,215	9,237	10,348	10,693	8,206	5,183
AN	5,954	4,681	5,401	6,828	14,003	8,868	5,278	10,446	9,744	10,601	7,184	7,724
W	5,980	5,596	11,268	14,920	17,943	14,600	9,698	9,757	10,134	10,040	9,089	8,022
All	5,772	4,938	6,685	7,386	9,693	7,768	6,612	8,780	9,276	9,182	8,321	6,283
55 w/WSAs no CVP SJIE												
C	5,712	3,951	3,395	3,151	2,839	3,527	3,775	5,701	6,473	5,606	7,064	5,720
D	5,567	4,271	4,418	3,508	2,972	4,173	5,414	8,169	8,370	9,795	7,666	5,119
BN	6,029	4,243	5,064	3,429	7,392	4,839	5,370	9,466	10,305	10,882	7,907	5,154
AN	5,756	4,141	5,334	6,772	15,124	9,273	5,540	11,188	10,608	10,368	6,955	7,250
W	6,196	5,537	10,535	14,797	17,951	14,783	10,128	10,404	11,009	10,019	8,839	7,589
All	5,893	4,582	6,341	7,252	9,811	8,030	6,584	9,062	9,506	9,464	7,884	6,230
55 no CVP SJIE												
C	5,087	4,420	3,659	3,257	3,430	3,992	4,680	6,144	6,576	5,227	6,256	4,941
D	5,246	4,201	4,208	3,301	3,560	4,760	6,993	8,591	8,944	7,206	7,608	5,131
BN	5,828	4,202	4,613	3,954	6,850	5,045	6,487	9,730	9,997	10,439	8,454	5,070
AN	5,930	4,126	4,629	6,580	13,924	9,052	5,935	11,822	11,158	11,305	7,326	7,392
W	6,061	5,480	9,913	14,243	17,621	14,642	10,162	10,510	11,220	10,426	8,870	7,848
All	5,662	4,615	5,977	7,132	9,688	8,205	7,354	9,387	9,722	8,979	7,900	6,186
65 no CVP SJIE												
C	4,304	4,473	3,899	4,701	3,662	4,639	5,060	6,682	6,622	5,118	5,656	4,719
D	4,777	4,528	4,031	3,768	4,969	6,217	6,409	8,102	8,440	6,470	6,377	4,687
BN	5,306	4,183	4,281	4,517	7,915	6,542	7,687	9,174	9,514	8,312	7,920	4,964
AN	5,285	4,116	4,155	6,942	14,208	8,671	7,311	11,956	11,759	9,854	7,704	5,607
W	5,825	5,587	9,903	14,410	17,631	14,663	11,153	10,986	11,659	10,168	8,779	7,074
All	5,181	4,724	5,852	7,672	10,280	8,881	7,983	9,419	9,730	8,136	7,445	5,580

H1a4.2.29 Sacramento River above Bend Bridge (SWRCB Sac Abv Bend Bridge)

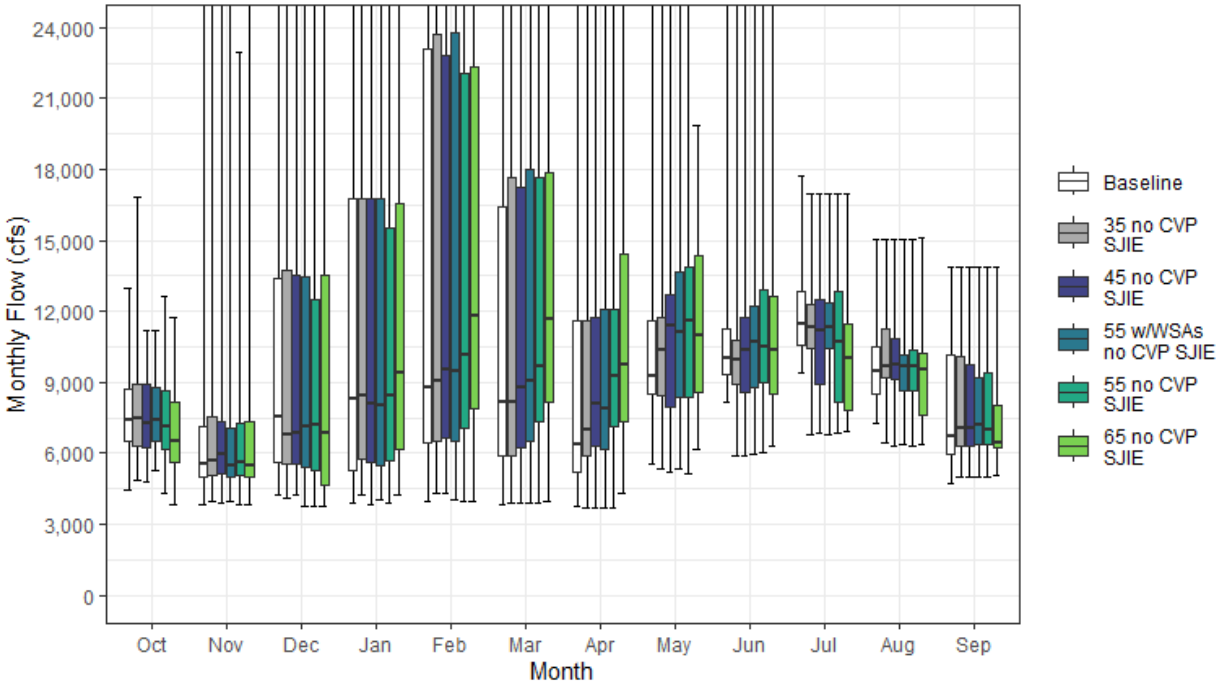

Figure H1a4-29. Sacramento River Streamflow above Bend Bridge Monthly Boxplot (cfs)

Table H1a4-57. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River above Bend Bridge (SWRCB Sac Abv Bend Bridge)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	4,484	3,837	4,236	3,880	3,997	3,829	3,775	5,573	8,181	9,428	7,298	4,703	4,264
10%	5,393	4,236	4,778	4,564	5,401	5,057	4,734	7,414	8,916	10,097	8,058	5,353	5,086
25%	6,537	4,987	5,607	5,272	6,470	5,872	5,236	8,488	9,348	10,555	8,515	5,952	5,591
50%	7,399	5,544	7,524	8,330	8,793	8,168	6,354	9,234	10,000	11,494	9,477	6,687	7,053
75%	8,733	7,109	13,395	16,801	23,091	16,446	11,593	11,636	11,266	12,814	10,477	10,172	9,755
90%	9,698	10,422	26,946	33,909	43,532	29,990	18,217	14,815	13,540	14,688	12,638	11,341	12,594
100%	13,016	35,458	42,071	74,705	83,601	73,277	44,397	26,534	30,912	17,710	15,072	13,888	17,709
Mean	7,588	6,879	11,768	14,214	17,690	13,930	9,608	10,399	10,755	11,927	9,892	7,916	7,985
35 no CVP SJIE													
0%	4,894	3,940	4,114	4,232	4,341	3,916	3,688	5,338	5,920	6,809	6,428	4,989	3,873
10%	5,877	4,809	4,681	4,814	5,502	5,111	5,173	6,341	7,064	7,536	8,252	5,991	4,851
25%	6,295	5,063	5,531	5,777	6,484	5,928	5,926	8,414	8,942	10,451	9,192	6,292	5,678
50%	7,477	5,682	6,824	8,434	9,079	8,169	6,974	10,335	9,988	11,323	9,714	7,040	7,223
75%	8,910	7,579	13,744	16,801	23,693	17,657	11,618	11,719	10,781	12,293	11,249	10,064	9,725
90%	9,823	10,347	27,178	33,909	43,531	29,989	18,218	14,799	13,235	14,267	12,628	11,393	12,409
100%	16,809	35,311	42,071	74,705	83,601	73,277	44,397	26,534	30,912	16,959	15,072	13,888	17,709
Mean	7,784	6,959	11,538	14,352	17,719	14,077	9,909	10,645	10,230	11,228	10,080	8,083	7,987
45 no CVP SJIE													
0%	4,768	3,927	4,232	3,835	4,343	3,915	3,701	5,175	5,930	6,826	6,277	5,004	4,076
10%	5,669	4,833	4,812	4,610	5,663	5,419	5,274	6,681	7,113	7,642	8,244	6,036	4,772
25%	6,271	5,152	5,583	5,648	6,626	6,215	6,295	7,953	8,577	8,898	9,160	6,337	5,683
50%	7,278	5,969	6,845	8,099	9,508	8,801	8,117	11,427	10,355	11,202	9,736	7,096	7,154
75%	8,902	7,362	13,532	16,801	22,800	17,277	11,731	12,710	11,761	12,490	10,863	9,723	9,745
90%	9,656	9,447	25,279	33,909	43,532	29,978	18,218	14,351	13,399	13,755	12,402	11,270	12,470
100%	11,202	32,249	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,538	6,911	11,370	14,205	17,655	14,191	10,414	10,832	10,509	10,920	10,079	8,007	7,988
55 w/WSAs no CVP SJIE													
0%	5,277	3,947	3,754	4,063	4,009	3,932	3,689	5,340	5,983	6,809	6,352	4,995	3,904
10%	5,733	4,793	4,515	4,619	5,426	5,297	4,680	6,538	7,246	7,697	7,896	6,143	4,763
25%	6,517	4,995	5,421	5,476	6,545	6,521	6,150	8,350	8,785	10,428	8,646	6,350	5,665
50%	7,422	5,478	7,128	8,046	9,499	9,082	7,884	11,101	10,706	11,328	9,660	7,237	7,173
75%	8,771	7,099	13,463	16,801	23,780	18,004	12,082	13,703	12,236	12,395	10,137	9,229	9,781
90%	9,707	8,987	25,093	33,909	43,638	29,978	18,218	15,006	13,251	13,706	11,617	11,061	12,611
100%	11,202	33,234	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,653	6,560	11,033	14,073	17,771	14,449	10,385	11,107	10,733	11,187	9,648	7,950	7,983
55 no CVP SJIE													
0%	4,308	3,862	3,741	3,868	3,988	3,924	3,720	5,144	6,004	6,869	6,321	5,035	3,904
10%	5,527	4,709	4,499	4,723	5,441	5,594	5,435	6,862	7,572	7,524	7,174	5,984	4,758
25%	6,191	5,085	5,274	5,689	7,043	7,343	7,150	8,388	8,965	8,167	8,655	6,344	5,749
50%	7,143	5,596	7,227	8,436	10,138	9,701	9,251	11,584	10,524	10,734	9,675	7,012	6,827
75%	8,637	7,270	12,477	15,559	22,044	17,657	12,082	13,871	12,931	12,861	10,368	9,403	9,770
90%	9,567	8,871	22,879	31,857	43,532	29,913	17,881	15,152	14,563	14,480	12,351	11,061	12,667
100%	12,637	22,962	42,071	74,705	83,601	73,277	44,397	26,136	30,912	16,959	15,072	13,888	17,709
Mean	7,429	6,593	10,674	13,955	17,650	14,622	11,166	11,425	10,952	10,738	9,678	7,918	7,997
65 no CVP SJIE													
0%	3,831	3,830	3,743	4,230	3,991	3,937	4,318	6,178	6,292	6,938	6,383	5,037	4,083
10%	4,717	4,773	4,247	4,834	4,770	6,104	6,175	7,244	7,431	7,452	6,530	5,673	4,794
25%	5,636	5,023	4,674	6,197	7,889	8,142	7,348	8,560	8,530	7,810	7,583	6,230	5,629
50%	6,541	5,484	6,854	9,373	11,796	11,676	9,721	10,993	10,380	10,001	9,572	6,477	7,063
75%	8,186	7,363	13,511	16,576	22,347	17,897	14,399	14,331	12,671	11,478	10,223	8,007	10,017
90%	9,523	9,528	21,420	33,127	41,124	26,135	19,890	16,427	14,716	12,917	11,716	10,396	12,535
100%	11,768	26,061	42,072	74,705	79,667	73,277	44,399	19,840	29,721	16,980	15,098	13,877	17,712
Mean	6,957	6,699	10,550	14,485	18,231	15,287	11,814	11,463	10,972	9,933	9,248	7,355	8,005

Table H1a4-58. Water Year Average of Monthly Flows (cfs) — Sacramento River above Bend Bridge (SWRCB Sac Abv Bend Bridge)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	6,499	5,024	6,550	6,006	6,010	5,808	4,960	8,285	9,689	10,535	8,714	5,650
D	7,662	6,115	7,838	6,100	8,425	8,039	5,725	8,886	11,149	11,458	9,195	6,054
BN	7,517	5,935	8,004	9,012	13,716	8,656	7,660	9,205	10,689	12,575	9,237	6,470
AN	7,478	7,179	10,268	16,332	23,598	17,138	9,576	12,164	10,039	13,352	9,214	9,380
W	8,202	8,908	20,416	26,989	30,867	24,639	16,183	12,686	11,364	12,032	11,717	10,819
All	7,588	6,879	11,768	14,214	17,690	13,930	9,608	10,399	10,755	11,927	9,892	7,916
35 no CVP SJIE												
C	7,317	5,401	6,326	6,315	6,262	5,870	5,113	6,663	7,357	8,117	8,846	5,907
D	7,523	6,577	7,837	6,332	8,319	8,143	6,644	9,923	10,264	10,568	9,834	6,572
BN	7,711	6,064	7,806	9,413	13,942	8,704	7,874	10,176	10,555	12,295	9,362	6,664
AN	7,827	6,754	9,722	16,416	24,059	17,881	9,745	12,400	10,179	12,660	9,313	9,278
W	8,253	8,720	20,120	26,821	30,579	24,685	16,216	12,892	11,553	12,123	11,680	10,772
All	7,784	6,959	11,538	14,352	17,719	14,077	9,909	10,645	10,230	11,228	10,080	8,083
45 no CVP SJIE												
C	6,612	5,426	6,064	5,623	6,736	6,268	5,300	6,756	7,230	7,753	8,966	5,716
D	7,177	6,600	7,567	6,282	8,379	8,376	7,704	9,090	9,777	10,001	10,070	6,677
BN	7,677	6,177	7,885	9,328	13,400	9,024	8,632	10,662	11,267	11,768	9,737	6,594
AN	7,791	6,590	10,028	16,251	23,673	17,326	9,983	13,389	11,017	12,304	9,199	9,743
W	8,108	8,523	19,731	26,862	30,568	24,700	16,428	13,367	12,111	12,194	11,248	10,406
All	7,538	6,911	11,370	14,205	17,655	14,191	10,414	10,832	10,509	10,920	10,079	8,007
55 w/WSAs no CVP SJIE												
C	7,007	4,930	5,495	5,457	6,230	5,887	4,625	6,450	7,188	7,701	8,150	6,484
D	7,171	6,060	7,516	6,270	8,490	8,631	7,200	9,102	9,223	11,247	9,438	6,717
BN	7,746	5,819	7,845	9,018	13,594	9,858	8,788	10,884	11,220	11,939	9,442	6,568
AN	7,588	6,061	9,964	16,195	24,777	17,724	10,246	14,114	11,867	12,076	8,975	9,278
W	8,319	8,466	19,011	26,741	30,577	24,879	16,859	14,000	12,970	12,171	11,001	9,981
All	7,653	6,560	11,033	14,073	17,771	14,449	10,385	11,107	10,733	11,187	9,648	7,950
55 no CVP SJIE												
C	6,400	5,390	5,752	5,559	6,811	6,344	5,541	6,891	7,307	7,369	7,410	5,773
D	6,841	5,992	7,309	6,066	9,068	9,208	8,804	9,516	9,787	8,768	9,414	6,736
BN	7,572	5,778	7,401	9,534	13,060	10,061	9,906	11,153	10,934	11,538	9,974	6,489
AN	7,762	6,044	9,270	16,007	23,596	17,507	10,661	14,711	12,413	12,995	9,338	9,417
W	8,184	8,410	18,400	26,196	30,252	24,740	16,898	14,099	13,178	12,571	11,031	10,235
All	7,429	6,593	10,674	13,955	17,650	14,622	11,166	11,425	10,952	10,738	9,678	7,918
65 no CVP SJIE												
C	5,640	5,440	5,986	6,979	7,037	6,982	5,929	7,433	7,373	7,292	6,871	5,587
D	6,382	6,311	7,134	6,525	10,454	10,643	8,270	9,053	9,280	8,080	8,185	6,357
BN	7,062	5,760	7,074	10,087	14,107	11,534	11,114	10,634	10,490	9,483	9,494	6,413
AN	7,130	6,035	8,803	16,362	23,874	17,132	12,054	14,813	13,021	11,585	9,721	7,712
W	7,944	8,514	18,389	26,360	30,261	24,761	17,899	14,563	13,617	12,326	10,950	9,484
All	6,957	6,699	10,550	14,485	18,231	15,287	11,814	11,463	10,972	9,933	9,248	7,355

H1a4.2.30Sacramento River below Wilkins Slough (SWRCB Sac Blw Wilkins Slough)

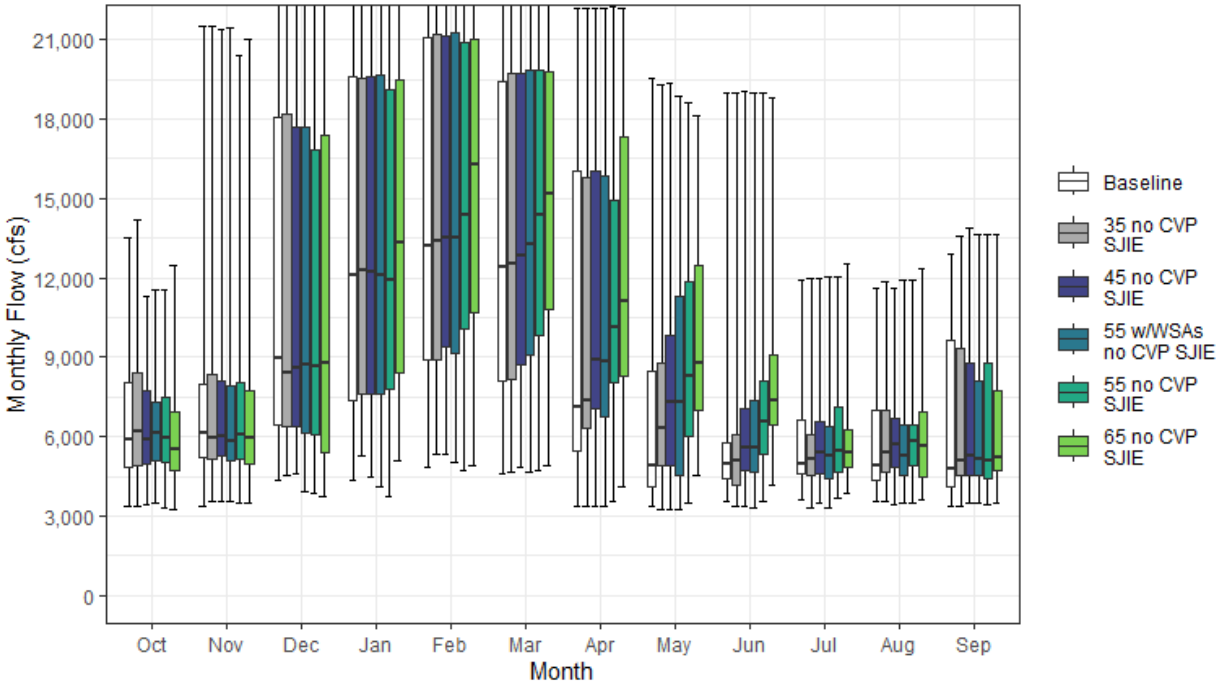

Figure H1a4-30. Sacramento River Streamflow below Wilkins Slough Monthly Boxplot (cfs)

Table H1a4-59. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River below Wilkins Slough (SWRCB Sac Blw Wilkins Slough)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3,335	3,351	4,351	4,353	4,818	4,576	3,361	3,357	3,518	3,604	3,520	3,348	3,229
10%	3,723	4,146	5,592	5,688	6,952	6,700	4,693	3,562	3,753	3,789	3,706	3,460	3,955
25%	4,834	5,193	6,467	7,335	8,875	8,105	5,475	4,117	4,379	4,588	4,355	4,126	4,813
50%	5,873	6,155	8,959	12,105	13,174	12,415	7,104	4,900	4,950	4,987	4,873	4,793	6,062
75%	8,066	7,973	18,038	19,590	21,102	19,385	16,018	8,485	5,778	6,641	6,998	9,647	8,076
90%	9,422	12,080	21,238	21,856	22,473	21,584	19,734	13,778	7,909	8,701	9,042	10,164	9,298
100%	13,488	21,521	22,570	23,658	24,653	23,824	22,181	19,529	19,010	11,921	11,623	12,893	11,890
Mean	6,501	7,405	11,568	13,393	14,659	13,653	9,956	7,001	5,666	5,698	5,715	6,507	6,485
35 no CVP SJIE													
0%	3,361	3,531	4,541	5,270	5,326	4,631	3,347	3,266	3,352	3,287	3,518	3,389	3,423
10%	4,259	4,312	5,412	6,014	7,142	6,794	5,417	3,811	3,788	3,806	4,107	4,042	4,278
25%	4,913	5,146	6,379	7,611	8,903	8,151	6,332	4,888	4,189	4,529	4,654	4,523	4,941
50%	6,168	5,943	8,413	12,296	13,368	12,539	7,375	6,345	5,062	5,136	5,369	5,100	6,317
75%	8,388	8,341	18,194	19,566	21,220	19,709	15,789	8,761	6,072	6,064	6,972	9,328	7,975
90%	9,516	12,055	21,262	21,894	22,471	21,583	19,736	13,602	7,772	7,986	9,222	10,143	9,308
100%	14,164	21,510	22,568	23,658	24,651	23,824	22,181	19,302	18,963	11,989	11,834	13,602	11,949
Mean	6,681	7,342	11,450	13,527	14,764	13,783	10,324	7,552	5,680	5,611	6,058	6,684	6,590
45 no CVP SJIE													
0%	3,394	3,572	4,589	4,491	5,341	4,819	3,347	3,266	3,359	3,472	3,426	3,460	3,380
10%	4,383	4,580	5,156	5,861	7,533	7,344	5,502	3,814	4,142	3,970	4,224	4,069	4,332
25%	4,951	5,289	6,359	7,580	9,417	8,700	7,055	4,930	4,730	4,583	4,857	4,546	5,070
50%	5,871	5,992	8,560	12,207	13,483	12,826	8,887	7,310	5,559	5,386	5,728	5,254	6,455
75%	7,754	8,089	17,700	19,585	21,139	19,732	16,005	9,833	7,082	6,536	6,690	8,771	8,239
90%	9,420	11,431	21,190	21,894	22,471	21,585	19,740	13,467	8,249	7,514	8,886	10,285	9,537
100%	11,309	21,352	22,568	23,608	24,651	23,824	22,180	19,354	19,037	12,003	11,589	13,906	11,956
Mean	6,484	7,263	11,384	13,374	14,871	13,958	10,836	7,990	6,195	5,662	6,058	6,646	6,665
55 w/WSAs no CVP SJIE													
0%	3,517	3,529	3,937	4,080	5,010	4,631	3,347	3,266	3,291	3,287	3,498	3,464	3,188
10%	4,610	4,344	4,937	5,677	7,313	7,053	4,642	3,684	3,771	3,774	3,866	4,161	4,186
25%	5,108	5,107	6,159	7,576	9,155	9,094	6,740	4,517	4,632	4,427	4,523	4,531	4,935
50%	6,157	5,836	8,727	12,101	13,484	13,251	8,816	7,296	5,584	5,269	5,292	5,136	6,297
75%	7,277	7,884	17,698	19,632	21,254	19,839	15,824	11,302	7,336	6,372	6,416	8,079	8,348
90%	9,645	9,963	21,120	21,882	22,511	21,585	19,773	13,318	9,258	7,311	8,341	10,117	9,362
100%	11,563	21,447	22,568	23,608	24,651	23,824	22,181	18,846	19,005	12,046	11,910	13,634	11,992
Mean	6,535	6,975	11,252	13,279	14,825	14,060	10,770	8,145	6,330	5,558	5,734	6,504	6,620
55 no CVP SJIE													
0%	3,327	3,469	3,871	3,705	4,716	4,721	3,573	3,486	3,518	3,645	3,456	3,433	3,242
10%	4,470	4,338	4,769	5,823	7,442	7,972	5,981	4,685	4,756	4,246	4,037	4,031	4,571
25%	5,050	5,126	6,063	7,767	10,094	9,816	8,062	6,007	5,351	4,633	4,915	4,413	5,284
50%	5,968	6,072	8,651	11,899	14,388	14,350	10,155	8,271	6,583	5,470	5,794	5,111	6,508
75%	7,475	8,014	16,833	19,082	20,878	19,840	14,944	11,859	8,094	7,103	6,468	8,766	8,417
90%	9,704	10,743	20,955	21,856	22,471	21,467	19,749	13,656	9,586	8,345	7,622	10,106	9,566
100%	11,563	20,421	22,568	23,658	24,652	23,824	22,230	18,644	19,011	12,046	11,910	13,634	11,983
Mean	6,466	6,963	11,172	13,358	15,080	14,430	11,589	9,021	7,108	5,976	5,906	6,550	6,840
65 no CVP SJIE													
0%	3,259	3,458	3,712	5,091	4,920	4,923	4,087	4,531	4,169	3,847	3,606	3,481	3,484
10%	4,277	4,297	4,599	6,049	6,595	7,888	6,751	6,042	5,686	4,432	4,006	4,238	4,515
25%	4,743	4,961	5,407	8,376	10,702	10,806	8,253	6,989	6,429	4,816	4,451	4,731	5,451
50%	5,514	5,927	8,793	13,333	16,291	15,145	11,113	8,748	7,370	5,379	5,639	5,225	6,857
75%	6,925	7,699	17,396	19,477	21,001	19,789	17,323	12,454	9,092	6,284	6,929	7,724	8,663
90%	9,503	10,669	20,483	21,809	22,396	21,463	19,840	14,978	10,881	7,800	7,948	10,052	9,607
100%	12,491	21,000	22,593	23,608	24,612	23,824	22,154	18,111	18,775	12,531	12,348	13,610	12,039
Mean	6,113	6,988	11,001	13,795	15,587	15,144	12,312	9,798	7,948	5,854	5,934	6,416	7,035

Table H1a4-60. Water Year Average of Monthly Flows (cfs) — Sacramento River below Wilkins Slough (SWRCB Sac Blw Wilkins Slough)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	4,864	5,012	7,602	7,823	8,257	7,506	4,585	3,942	4,431	3,980	4,065	3,613
D	6,334	6,682	9,340	8,146	11,169	10,524	5,899	4,514	5,399	4,723	4,594	4,328
BN	6,471	6,536	8,432	12,733	14,044	12,291	9,136	5,444	5,218	5,772	4,623	4,776
AN	6,513	8,048	11,286	17,508	18,594	18,140	12,078	8,652	5,214	7,447	5,508	8,479
W	7,509	9,504	17,415	18,983	19,448	18,294	15,466	10,782	6,985	6,583	8,190	9,957
All	6,501	7,405	11,568	13,393	14,659	13,653	9,956	7,001	5,666	5,698	5,715	6,507
35 no CVP SJIE												
C	5,744	5,089	7,393	8,120	8,591	7,696	4,984	4,133	4,495	4,247	5,669	3,990
D	6,250	6,927	9,261	8,325	11,237	10,671	6,864	5,611	5,134	4,561	4,761	4,767
BN	6,666	6,418	8,258	13,038	14,210	12,438	9,475	6,351	5,194	5,508	4,687	4,909
AN	6,657	7,404	11,092	17,498	18,646	18,362	12,220	8,863	5,313	6,781	5,682	8,409
W	7,516	9,407	17,385	18,946	19,438	18,332	15,490	11,034	7,168	6,705	8,235	9,961
All	6,681	7,342	11,450	13,527	14,764	13,783	10,324	7,552	5,680	5,611	6,058	6,684
45 no CVP SJIE												
C	5,156	5,176	7,071	7,488	9,044	8,097	5,186	4,570	4,557	4,267	5,947	4,012
D	6,017	6,833	9,132	8,267	11,320	11,025	7,946	5,483	5,317	4,772	4,892	4,823
BN	6,618	6,495	8,440	12,925	14,230	12,638	10,190	7,007	6,125	5,501	4,963	4,812
AN	6,669	7,057	10,868	17,455	18,625	18,144	12,496	9,855	6,200	6,492	5,685	8,785
W	7,375	9,259	17,406	18,910	19,488	18,395	15,715	11,529	7,754	6,827	7,816	9,693
All	6,484	7,263	11,384	13,374	14,871	13,958	10,836	7,990	6,195	5,662	6,058	6,646
55 w/WSAs no CVP SJIE												
C	5,373	4,737	6,584	7,255	8,589	7,688	4,467	3,909	4,279	4,011	4,907	4,107
D	5,956	6,403	9,192	8,259	11,413	11,080	7,463	5,135	4,602	4,841	4,725	4,849
BN	6,627	6,168	8,306	12,659	14,102	13,165	10,362	7,134	6,006	5,219	4,804	4,824
AN	6,378	6,646	11,024	17,179	18,786	18,152	12,745	10,673	6,936	6,297	5,459	8,339
W	7,582	9,232	17,209	19,007	19,528	18,573	16,025	12,240	8,654	6,830	7,615	9,324
All	6,535	6,975	11,252	13,279	14,825	14,060	10,770	8,145	6,330	5,558	5,734	6,504
55 no CVP SJIE												
C	5,217	4,998	6,597	7,361	9,149	8,191	5,663	5,237	5,274	4,403	4,757	4,189
D	5,758	6,245	9,039	8,252	11,898	11,899	9,075	6,831	6,324	4,824	5,179	4,633
BN	6,566	6,070	8,362	13,047	14,256	13,549	11,331	8,063	6,451	6,026	5,165	4,754
AN	6,664	6,668	10,889	17,350	18,746	18,294	13,105	11,270	7,726	7,098	5,641	8,507
W	7,510	9,222	17,069	18,899	19,632	18,624	16,149	12,353	8,829	7,179	7,627	9,571
All	6,466	6,963	11,172	13,358	15,080	14,430	11,589	9,021	7,108	5,976	5,906	6,550
65 no CVP SJIE												
C	4,706	5,016	6,610	8,728	9,389	8,871	6,188	6,202	5,691	4,608	4,551	4,105
D	5,432	6,413	8,751	8,575	12,753	13,085	9,151	7,506	6,935	4,977	4,786	4,929
BN	6,158	6,047	7,959	13,210	14,866	14,660	12,571	8,758	7,698	5,353	5,020	5,028
AN	6,044	6,670	10,653	17,817	19,272	18,701	14,263	11,881	8,977	6,184	6,264	7,571
W	7,361	9,184	17,058	19,085	19,952	18,885	16,951	13,221	9,643	7,345	7,959	9,156
All	6,113	6,988	11,001	13,795	15,587	15,144	12,312	9,798	7,948	5,854	5,934	6,416

H1a4.2.31 Sacramento River at Knights Landing (SWRCB Sac at Knights Landing)

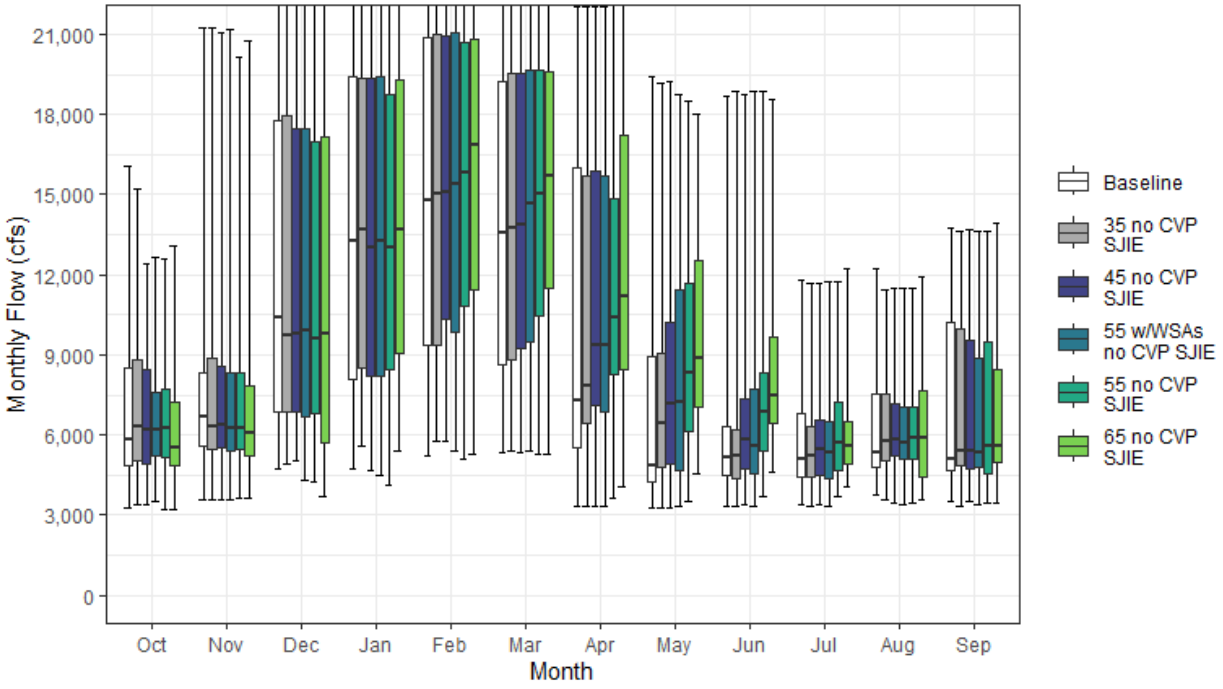

Figure H1a4-31. Sacramento River Streamflow at Knights Landing Monthly Boxplot (cfs)

Table H1a4-61. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River at Knights Landing (SWRCB Sac at Knights Landing)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3,260	3,598	4,704	4,704	5,224	5,354	3,356	3,284	3,354	3,402	3,785	3,532	3,361
10%	3,802	4,411	5,941	6,596	7,509	7,014	4,785	3,490	3,646	3,567	4,153	3,716	4,294
25%	4,871	5,556	6,848	8,101	9,345	8,627	5,549	4,271	4,479	4,443	4,774	4,647	5,092
50%	5,852	6,662	10,396	13,232	14,787	13,585	7,313	4,848	5,148	5,093	5,342	5,110	6,220
75%	8,503	8,323	17,776	19,397	20,901	19,208	16,011	8,905	6,333	6,831	7,540	10,231	8,384
90%	9,982	12,459	20,956	21,628	22,250	21,375	19,607	13,539	7,772	8,652	9,911	10,925	9,438
100%	16,048	21,267	22,301	23,406	24,394	23,579	22,041	19,405	18,660	11,779	12,246	13,717	12,001
Mean	6,784	7,723	12,072	13,869	15,111	13,996	10,114	7,040	5,742	5,697	6,250	7,020	6,708
35 no CVP SJIE													
0%	3,396	3,577	4,941	5,567	5,770	5,406	3,343	3,294	3,306	3,350	3,597	3,325	3,599
10%	4,291	4,504	5,820	6,715	7,670	7,224	5,520	3,708	3,783	3,767	4,534	4,217	4,465
25%	5,012	5,488	6,873	8,519	9,349	8,838	6,439	4,796	4,392	4,417	5,066	4,842	5,199
50%	6,306	6,289	9,734	13,673	15,019	13,743	7,816	6,417	5,242	5,229	5,759	5,414	6,429
75%	8,839	8,899	17,972	19,374	21,017	19,531	15,667	9,066	6,220	6,310	7,554	9,967	8,309
90%	10,087	12,445	21,005	21,666	22,248	21,375	19,608	13,509	7,769	8,137	9,760	10,983	9,431
100%	15,188	21,257	22,300	23,406	24,392	23,579	22,041	19,179	18,834	11,689	11,440	13,620	11,921
Mean	6,923	7,631	11,946	13,991	15,188	14,120	10,472	7,571	5,866	5,659	6,489	7,147	6,804
45 no CVP SJIE													
0%	3,364	3,586	5,048	4,698	5,777	5,329	3,342	3,294	3,417	3,362	3,469	3,534	3,491
10%	4,246	4,601	5,646	6,528	8,088	7,816	5,474	3,719	4,197	3,940	4,758	4,180	4,567
25%	4,937	5,499	6,849	8,179	10,309	9,212	7,104	4,943	4,709	4,469	5,249	4,736	5,273
50%	6,195	6,378	9,765	13,031	15,111	13,860	9,352	7,166	5,801	5,445	5,822	5,412	6,582
75%	8,450	8,555	17,491	19,374	20,937	19,554	15,882	10,207	7,342	6,580	7,199	9,545	8,450
90%	10,053	12,116	20,915	21,665	22,248	21,376	19,612	13,320	8,400	7,760	9,703	11,015	9,665
100%	12,415	21,061	22,300	23,357	24,392	23,579	22,040	19,231	18,725	11,703	11,475	13,657	11,940
Mean	6,735	7,549	11,873	13,812	15,293	14,274	10,975	8,038	6,353	5,727	6,458	7,081	6,873
55 w/WSAs no CVP SJIE													
0%	3,536	3,573	4,314	4,510	5,410	5,404	3,342	3,304	3,349	3,343	3,388	3,373	3,312
10%	4,682	4,566	5,463	6,529	7,869	7,458	4,610	3,590	3,665	3,722	4,206	4,342	4,444
25%	5,222	5,430	6,687	8,219	9,853	9,462	6,877	4,663	4,572	4,350	5,101	4,767	5,154
50%	6,224	6,239	9,883	13,235	15,413	14,685	9,366	7,241	5,575	5,318	5,697	5,341	6,493
75%	7,601	8,327	17,489	19,398	21,051	19,659	15,701	11,457	7,686	6,497	7,046	8,873	8,595
90%	10,202	10,308	20,828	21,656	22,287	21,376	19,645	13,433	9,818	7,484	8,825	10,896	9,541
100%	12,653	21,194	22,299	23,357	24,392	23,579	22,041	18,726	18,855	11,745	11,514	13,652	11,960
Mean	6,776	7,297	11,746	13,725	15,243	14,382	10,915	8,199	6,466	5,583	6,188	6,944	6,831
55 no CVP SJIE													
0%	3,234	3,606	4,237	4,125	5,077	5,288	3,641	3,522	3,713	3,693	3,482	3,426	3,370
10%	4,412	4,586	5,255	6,589	8,023	8,518	6,003	4,846	4,836	4,277	4,068	4,006	4,712
25%	5,151	5,442	6,794	8,438	10,851	10,464	8,276	6,153	5,430	4,697	5,120	4,559	5,504
50%	6,248	6,235	9,604	12,989	15,788	15,048	10,387	8,305	6,850	5,701	5,871	5,575	6,698
75%	7,698	8,334	16,949	18,768	20,680	19,660	14,857	11,681	8,327	7,241	7,071	9,457	8,686
90%	10,215	11,249	20,690	21,590	22,247	21,260	19,621	13,640	10,025	8,512	8,436	10,897	9,670
100%	12,564	20,146	22,300	23,406	24,394	23,579	22,089	18,525	18,850	11,745	11,514	13,652	11,948
Mean	6,700	7,258	11,637	13,795	15,456	14,728	11,726	9,089	7,281	6,085	6,231	6,941	7,039
65 no CVP SJIE													
0%	3,225	3,616	3,694	5,396	5,279	5,283	4,072	4,534	4,639	4,051	3,586	3,482	3,636
10%	4,383	4,420	4,972	6,746	7,107	8,314	6,720	6,045	5,709	4,335	4,036	4,206	4,703
25%	4,829	5,209	5,725	9,036	11,458	11,490	8,417	7,044	6,428	4,905	4,445	4,997	5,666
50%	5,510	6,091	9,788	13,708	16,846	15,670	11,215	8,896	7,458	5,573	5,865	5,563	6,986
75%	7,202	7,835	17,143	19,275	20,802	19,610	17,193	12,534	9,695	6,521	7,679	8,463	8,895
90%	10,038	11,256	20,209	21,567	22,174	21,249	19,712	15,305	11,108	8,021	8,633	10,894	9,761
100%	13,107	20,755	22,324	23,357	24,354	23,579	22,074	17,994	18,547	12,225	11,948	13,932	12,009
Mean	6,345	7,238	11,435	14,162	15,922	15,338	12,425	9,922	8,157	6,006	6,237	6,834	7,224

Table H1a4-62. Water Year Average of Monthly Flows (cfs) — Sacramento River at Knights Landing (SWRCB Sac at Knights Landing)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	4,969	5,331	8,211	8,589	9,338	8,113	4,564	3,741	4,155	3,734	4,242	3,801
D	6,526	7,007	10,149	8,954	11,857	11,115	6,043	4,500	5,316	4,581	5,012	4,777
BN	6,757	6,910	9,019	13,447	14,603	12,880	9,374	5,432	5,210	5,613	5,042	5,138
AN	6,710	8,337	11,979	17,683	18,803	18,114	12,310	8,907	5,508	7,576	6,279	9,168
W	7,987	9,793	17,511	19,031	19,423	18,307	15,650	10,934	7,332	6,865	8,981	10,715
All	6,784	7,723	12,072	13,869	15,111	13,996	10,114	7,040	5,742	5,697	6,250	7,020
35 no CVP SJIE												
C	5,780	5,315	7,967	8,857	9,642	8,292	4,967	4,083	4,467	4,223	5,645	3,958
D	6,438	7,156	10,069	9,116	11,919	11,250	7,011	5,547	5,185	4,450	5,060	5,189
BN	6,903	6,759	8,840	13,742	14,656	13,021	9,704	6,309	5,282	5,375	5,174	5,279
AN	6,810	7,748	11,769	17,680	18,854	18,334	12,444	9,073	5,692	7,028	6,333	9,037
W	7,947	9,721	17,482	18,986	19,414	18,344	15,646	11,113	7,550	6,942	8,883	10,710
All	6,923	7,631	11,946	13,991	15,188	14,120	10,472	7,571	5,866	5,659	6,489	7,147
45 no CVP SJIE												
C	5,149	5,389	7,666	8,242	10,085	8,691	5,161	4,516	4,492	4,237	5,889	3,993
D	6,191	7,040	9,947	9,049	11,999	11,533	8,073	5,473	5,272	4,746	5,070	5,118
BN	6,874	6,825	9,025	13,488	14,675	13,216	10,418	7,017	6,192	5,421	5,394	5,144
AN	6,869	7,381	11,557	17,637	18,833	18,118	12,708	10,134	6,624	6,730	6,311	9,524
W	7,837	9,601	17,460	18,951	19,462	18,394	15,862	11,606	8,131	7,034	8,511	10,418
All	6,735	7,549	11,873	13,812	15,293	14,274	10,975	8,038	6,353	5,727	6,458	7,081
55 w/WSAs no CVP SJIE												
C	5,420	5,009	7,188	8,023	9,647	8,294	4,465	3,869	4,226	3,996	4,784	4,078
D	6,104	6,703	10,000	9,018	12,090	11,653	7,607	5,133	4,615	4,683	5,086	5,178
BN	6,883	6,511	8,896	13,245	14,547	13,637	10,580	7,120	5,918	5,064	5,378	5,174
AN	6,560	6,989	11,726	17,468	18,991	18,218	12,958	10,915	7,409	6,508	6,116	9,040
W	8,011	9,574	17,270	19,025	19,481	18,569	16,174	12,353	8,989	7,050	8,289	10,050
All	6,776	7,297	11,746	13,725	15,243	14,382	10,915	8,199	6,466	5,583	6,188	6,944
55 no CVP SJIE												
C	5,227	5,171	7,102	8,101	9,981	8,787	5,625	5,222	5,228	4,368	4,685	4,139
D	5,927	6,507	9,844	9,032	12,563	12,426	9,177	6,876	6,361	4,927	5,218	4,823
BN	6,796	6,388	8,900	13,592	14,694	14,019	11,596	8,038	6,509	6,015	5,459	5,045
AN	6,873	7,021	11,519	17,591	18,951	18,265	13,311	11,514	8,139	7,292	6,361	9,194
W	7,924	9,566	17,150	18,935	19,582	18,620	16,299	12,470	9,198	7,413	8,234	10,289
All	6,700	7,258	11,637	13,795	15,456	14,728	11,726	9,089	7,281	6,085	6,231	6,941
65 no CVP SJIE												
C	4,753	5,161	7,041	9,285	10,082	9,254	6,145	6,134	5,671	4,582	4,537	4,066
D	5,629	6,634	9,487	9,328	13,382	13,443	9,281	7,579	7,023	5,095	4,820	5,149
BN	6,398	6,352	8,450	13,739	15,282	15,024	12,767	8,836	7,746	5,417	5,057	5,348
AN	6,198	7,004	11,295	17,950	19,448	18,655	14,428	12,182	9,412	6,465	7,051	8,325
W	7,744	9,445	17,153	19,059	19,894	18,844	17,061	13,445	10,073	7,624	8,605	9,892
All	6,345	7,238	11,435	14,162	15,922	15,338	12,425	9,922	8,157	6,006	6,237	6,834

H1a4.2.32Sacramento River at Freeport (SWRCB Sac at Freeport)

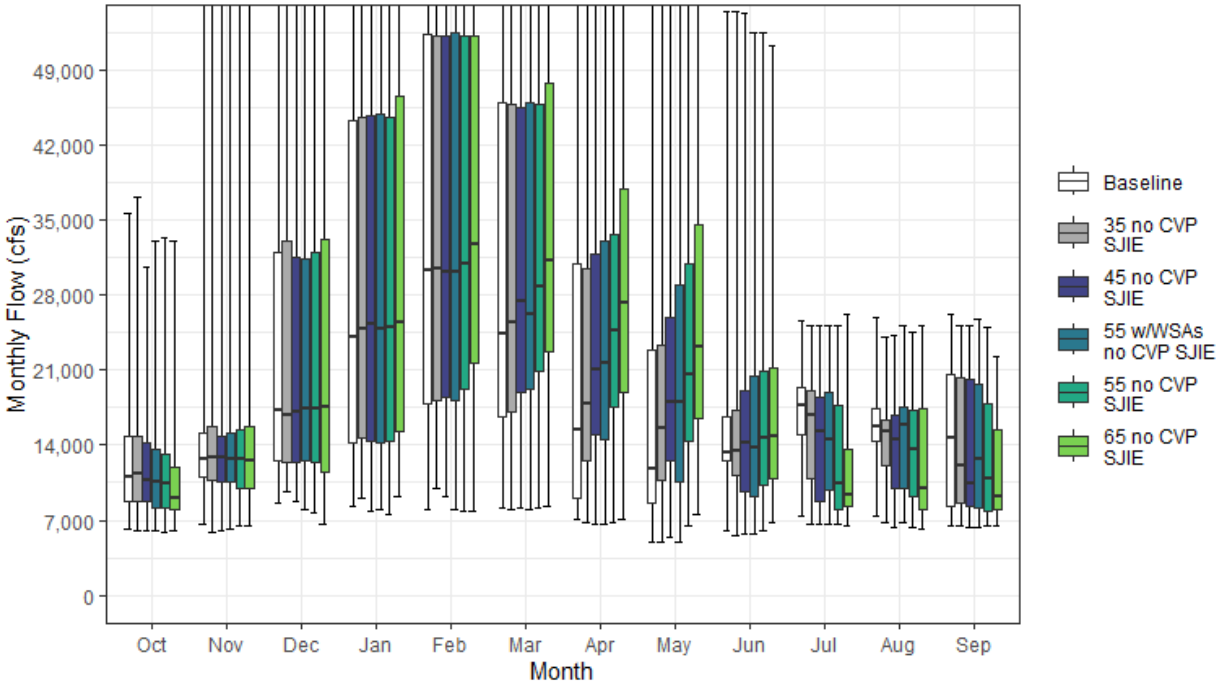

Figure H1a4-32. Sacramento River Streamflow at Freeport Monthly Boxplot (cfs)

Table H1a4-63. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River at Freeport (SWRCB Sac at Freeport)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	6,203	6,571	8,552	8,255	8,052	8,084	7,013	4,895	5,952	7,387	7,427	6,537	5,899
10%	6,729	8,542	11,505	11,372	12,755	11,985	8,095	7,837	9,922	8,295	9,417	6,948	7,935
25%	8,781	11,072	12,499	14,178	17,804	16,598	9,100	8,556	12,507	14,953	14,387	8,299	10,024
50%	11,078	12,748	17,296	24,151	30,337	24,353	15,426	11,728	13,277	17,651	15,733	14,689	12,870
75%	14,821	15,148	31,929	44,205	52,222	45,885	30,886	22,805	16,690	19,397	17,468	20,660	19,837
90%	17,388	23,172	53,741	60,496	66,611	57,080	50,784	40,543	25,840	21,686	18,918	22,588	24,216
100%	35,589	56,904	72,293	75,591	77,015	74,297	70,682	55,797	54,413	25,593	25,828	26,223	32,365
Mean	12,098	15,026	25,072	30,493	35,214	30,671	22,016	17,828	16,190	16,664	15,225	14,873	15,129
35 no CVP SJIE													
0%	6,010	5,886	9,704	9,092	9,949	8,035	6,850	5,012	5,637	6,564	6,829	6,424	5,815
10%	6,663	8,730	11,213	12,035	12,829	12,568	9,912	8,840	8,683	7,439	9,529	6,702	8,182
25%	8,786	10,739	12,411	14,722	18,138	17,112	12,490	10,683	11,151	10,919	12,143	8,527	10,334
50%	11,304	12,798	16,748	24,829	30,397	25,507	17,904	15,530	13,476	16,728	15,258	12,093	13,172
75%	14,767	15,738	33,046	44,616	52,193	45,732	30,522	23,336	17,271	19,034	16,409	20,306	19,838
90%	16,603	23,428	53,255	60,814	65,570	56,664	50,760	39,978	25,626	20,311	18,309	22,481	24,091
100%	37,126	57,045	72,484	75,589	76,969	74,297	70,694	55,820	54,388	25,086	24,101	25,093	32,193
Mean	12,002	14,807	25,016	30,830	35,463	31,422	23,857	19,450	16,139	15,148	14,549	14,319	15,226
45 no CVP SJIE													
0%	5,953	5,958	8,752	7,843	9,148	8,116	6,582	5,472	5,761	6,587	6,391	6,380	5,764
10%	6,752	7,945	10,960	11,514	13,626	14,228	11,794	8,395	8,521	7,226	9,205	6,660	8,347
25%	8,719	10,609	12,378	14,292	18,493	18,994	14,940	12,608	9,719	8,699	9,970	8,294	10,283
50%	10,677	12,855	17,033	25,300	30,117	27,343	21,100	17,940	14,141	15,349	14,451	10,446	13,528
75%	14,265	14,825	31,518	44,742	52,183	45,409	31,763	25,860	19,101	18,460	16,754	20,098	20,203
90%	16,236	22,854	53,148	60,809	65,139	56,648	50,781	40,534	25,394	20,259	18,462	21,674	23,993
100%	30,564	57,135	72,388	75,585	76,845	74,297	70,647	55,828	54,295	25,109	24,173	25,107	32,204
Mean	11,714	14,663	25,032	30,794	35,698	32,020	25,553	20,958	16,398	14,129	13,876	13,587	15,310
55 w/WSAs no CVP SJIE													
0%	6,044	6,108	7,989	8,017	7,940	7,945	6,689	4,947	5,741	6,615	6,779	6,398	5,559
10%	6,625	7,858	10,136	11,479	13,678	13,369	8,996	8,086	8,460	7,392	9,127	7,330	8,085
25%	8,172	10,518	12,484	14,277	18,096	19,214	14,544	10,554	9,203	9,743	9,955	8,175	9,871
50%	10,506	12,650	17,459	24,765	30,105	26,210	21,635	18,008	13,781	14,510	15,925	12,731	13,486
75%	13,625	15,149	31,353	44,915	52,437	45,899	32,964	28,932	20,445	18,977	17,504	19,633	20,494
90%	16,504	20,564	52,971	59,903	64,723	56,623	50,825	40,271	27,360	20,280	18,491	21,038	24,187
100%	33,001	57,001	72,174	75,504	76,816	74,296	70,616	55,579	52,487	25,204	25,082	25,752	32,256
Mean	11,419	14,380	24,801	30,660	35,580	31,909	25,470	21,064	16,593	14,437	14,203	13,575	15,290
55 no CVP SJIE													
0%	5,935	6,525	7,689	7,560	7,770	8,148	6,744	6,459	6,065	6,669	6,258	6,497	5,762
10%	6,506	8,149	9,753	11,276	13,580	15,914	12,383	9,883	8,583	7,177	7,851	6,637	8,472
25%	8,166	10,036	12,416	14,293	19,286	20,847	17,535	14,338	10,260	7,934	9,238	7,774	10,473
50%	10,359	12,653	17,422	24,973	30,920	28,728	24,651	20,644	14,602	10,389	13,584	10,802	13,592
75%	13,093	15,364	31,926	44,629	52,162	45,773	33,669	30,842	20,837	17,644	17,185	17,809	20,794
90%	16,245	21,705	53,301	59,584	65,292	56,226	51,200	41,373	28,632	20,109	18,496	19,970	23,845
100%	33,326	57,169	72,341	75,516	76,624	74,296	70,599	55,564	52,502	25,208	24,516	24,919	32,186
Mean	11,218	14,639	24,923	30,934	36,079	33,101	27,835	23,138	17,006	12,795	13,120	12,634	15,488
65 no CVP SJIE													
0%	5,966	6,550	6,594	9,242	7,779	8,370	7,075	7,473	6,707	6,532	6,144	6,523	6,303
10%	6,505	7,785	9,046	11,941	13,642	15,405	13,600	10,882	8,853	7,292	7,269	6,673	8,759
25%	7,950	9,927	11,543	15,351	21,642	22,692	18,987	16,437	10,934	8,275	7,925	8,045	10,882
50%	9,118	12,472	17,574	25,419	32,673	31,251	27,218	23,115	14,764	9,337	9,932	9,222	13,779
75%	12,012	15,658	33,117	46,608	52,209	47,743	37,835	34,489	21,134	13,616	17,375	15,411	20,540
90%	16,052	20,896	53,430	59,215	65,148	57,193	52,306	43,085	30,343	19,401	19,240	16,826	24,742
100%	33,059	56,992	72,332	75,485	76,415	74,295	70,539	55,637	51,281	26,202	25,112	22,205	31,891
Mean	10,515	14,404	24,933	31,473	36,805	34,762	30,345	25,532	17,536	11,529	12,213	11,395	15,728

Table H1a4-64. Water Year Average of Monthly Flows (cfs) — Sacramento River at Freeport (SWRCB Sac at Freeport)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	9,576	10,624	14,128	14,137	15,403	12,983	8,103	7,068	9,239	8,874	9,116	7,234
D	11,356	12,858	17,890	15,824	21,623	19,940	10,710	9,437	13,037	16,098	14,221	9,472
BN	12,086	13,278	17,856	23,917	31,659	25,369	18,221	12,686	13,444	18,909	16,176	13,706
AN	11,444	16,059	23,356	40,122	46,611	40,884	24,243	20,483	14,839	20,598	16,116	22,211
W	14,256	19,658	41,431	50,288	53,439	47,246	39,241	31,913	24,490	18,237	18,262	20,711
All	12,098	15,026	25,072	30,493	35,214	30,671	22,016	17,828	16,190	16,664	15,225	14,873
35 no CVP SJIE												
C	10,040	10,114	13,879	14,470	15,962	14,189	9,163	7,956	8,513	8,044	9,416	6,888
D	11,026	12,908	18,403	16,151	22,199	21,429	14,450	12,226	11,157	12,180	12,403	9,411
BN	12,053	13,177	17,567	24,620	31,927	26,319	21,221	15,687	14,377	17,368	15,199	11,523
AN	11,144	15,267	22,825	40,538	47,250	42,266	25,348	21,522	15,757	19,329	16,130	21,856
W	14,076	19,550	41,400	50,369	53,115	46,836	39,666	32,432	25,127	18,035	17,816	20,637
All	12,002	14,807	25,016	30,830	35,463	31,422	23,857	19,450	16,139	15,148	14,549	14,319
45 no CVP SJIE												
C	9,442	9,953	13,731	13,853	16,881	15,191	10,172	8,894	8,326	7,529	8,988	6,627
D	10,828	12,859	18,330	16,189	22,732	22,787	17,172	13,631	10,298	10,511	10,745	8,984
BN	11,889	12,820	17,801	24,425	31,726	27,324	23,917	17,998	14,782	15,293	13,553	9,903
AN	11,085	14,912	23,034	40,972	47,078	41,950	27,010	24,078	17,292	18,334	16,123	20,734
W	13,717	19,565	41,354	50,501	53,207	46,767	40,355	33,392	25,843	17,882	18,086	20,148
All	11,714	14,663	25,032	30,794	35,698	32,020	25,553	20,958	16,398	14,129	13,876	13,587
55 w/WSAs no CVP SJIE												
C	9,164	9,643	13,150	13,673	16,219	14,216	8,738	7,556	7,913	7,220	8,394	7,030
D	10,204	12,453	18,323	16,181	22,621	22,371	15,774	12,134	9,922	10,347	11,312	9,179
BN	11,668	12,585	17,876	24,192	31,757	27,310	23,911	17,795	14,278	15,982	14,045	10,923
AN	10,505	14,205	23,513	40,467	46,865	41,615	28,024	25,528	18,202	17,969	16,273	19,288
W	13,722	19,528	40,667	50,512	53,316	47,370	41,470	35,103	26,937	18,894	18,694	19,683
All	11,419	14,380	24,801	30,660	35,580	31,909	25,470	21,064	16,593	14,437	14,203	13,575
55 no CVP SJIE												
C	9,005	9,564	13,105	14,011	17,148	16,111	11,314	10,098	8,671	7,107	7,668	6,692
D	10,093	12,643	18,523	16,176	23,777	24,657	20,039	15,649	10,829	8,455	9,323	8,633
BN	11,096	12,799	17,989	25,084	32,343	28,872	27,490	20,651	14,500	12,077	12,141	9,782
AN	10,678	14,859	23,552	41,234	46,606	42,524	29,871	27,521	18,092	15,270	15,469	16,335
W	13,517	19,886	40,858	50,367	53,352	47,263	41,767	35,405	27,134	18,475	18,492	19,062
All	11,218	14,639	24,923	30,934	36,079	33,101	27,835	23,138	17,006	12,795	13,120	12,634
65 no CVP SJIE												
C	8,135	9,288	13,133	15,445	17,735	17,424	12,693	11,627	9,435	7,320	7,445	6,690
D	9,462	12,707	18,705	16,745	25,427	27,144	21,806	17,519	11,519	8,253	8,134	8,296
BN	10,448	12,316	17,613	25,865	32,838	31,125	31,078	23,124	15,242	9,304	9,372	9,152
AN	9,830	14,520	23,179	41,810	47,167	44,339	33,720	30,148	18,054	11,539	13,276	13,593
W	12,872	19,654	41,133	50,240	53,685	48,069	44,208	38,505	27,513	17,581	19,123	16,719
All	10,515	14,404	24,933	31,473	36,805	34,762	30,345	25,532	17,536	11,529	12,213	11,395

H1a4.2.33Sacramento River at Rio Vista (SWRCB Sac at Rio Vista)

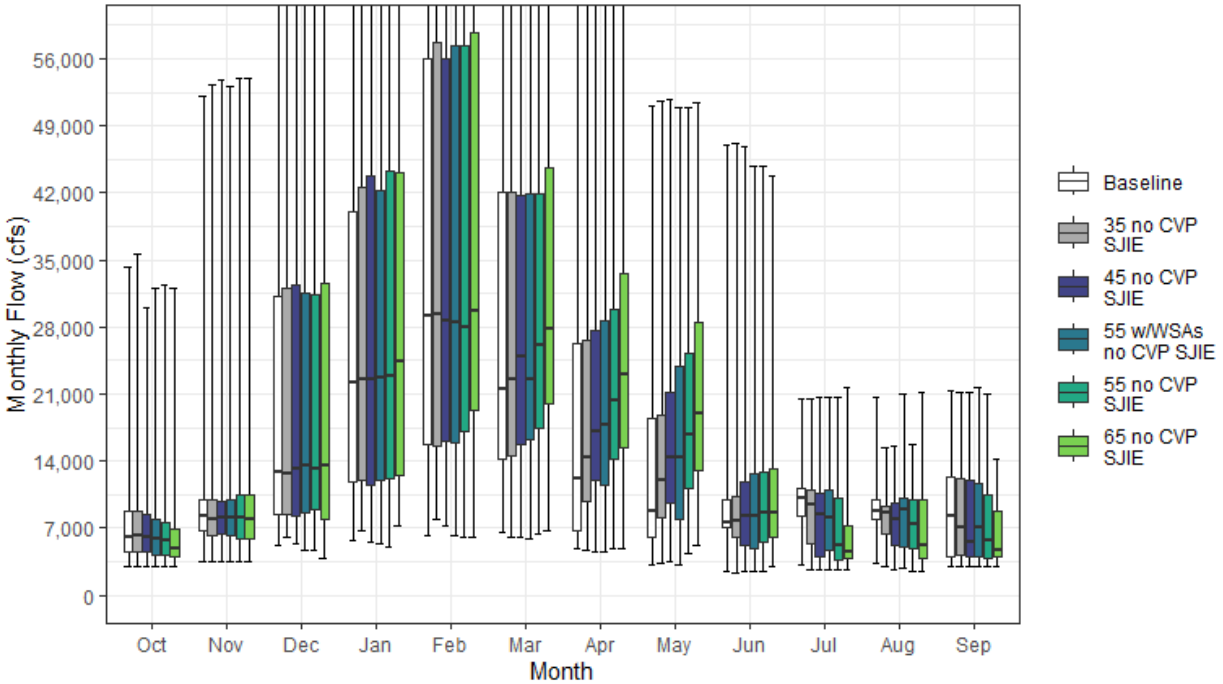

Figure H1a4-33. Sacramento River Streamflow at Rio Vista Monthly Boxplot (cfs)

Table H1a4-65. Cumulative Distribution of Monthly Flow (cfs) — Sacramento River at Rio Vista (SWRCB Sac at Rio Vista)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3,000	3,511	5,184	5,751	6,278	6,599	4,867	3,233	2,506	3,143	3,295	3,001	3,619
10%	3,125	4,781	7,714	8,786	10,392	9,765	5,927	5,579	5,290	3,690	4,595	3,143	5,787
25%	4,576	6,713	8,435	11,862	15,806	14,177	6,699	6,113	7,024	8,254	7,978	4,074	6,939
50%	6,075	8,264	12,903	22,266	29,088	21,591	12,182	8,817	7,639	10,058	8,832	8,332	9,542
75%	8,739	9,967	31,170	40,001	55,918	42,041	26,295	18,538	9,975	11,174	10,030	12,377	18,595
90%	10,281	15,944	55,573	79,702	105,307	73,060	46,410	33,734	20,740	12,673	10,985	13,729	25,496
100%	34,269	52,117	121,047	177,089	201,265	175,683	108,681	51,048	47,062	20,501	20,732	21,353	39,775
Mean	7,019	10,390	23,920	34,836	43,873	33,267	20,194	14,332	10,445	9,418	8,568	8,567	13,485
35 no CVP SJIE													
0%	3,000	3,536	6,007	6,694	7,885	5,976	4,662	3,297	2,352	2,664	2,964	3,000	3,561
10%	3,106	4,820	7,294	9,544	10,364	10,255	7,411	6,459	4,459	3,170	4,879	3,032	5,880
25%	4,494	6,295	8,518	11,955	15,584	14,625	9,759	8,049	6,143	5,388	6,459	4,179	7,402
50%	6,287	8,006	12,761	22,454	29,333	22,586	14,355	12,042	7,788	9,422	8,533	7,021	10,006
75%	8,718	10,048	32,001	42,555	57,680	42,078	26,557	18,780	10,388	10,915	9,361	12,128	18,625
90%	9,791	16,194	58,971	80,281	100,936	70,855	46,071	34,021	20,630	11,728	10,873	13,669	25,454
100%	35,546	53,269	121,160	174,756	200,707	175,681	107,002	51,507	47,104	20,575	15,441	21,167	39,492
Mean	6,953	10,201	24,101	35,486	44,043	33,887	21,786	15,791	10,410	8,421	8,138	8,203	13,642
45 no CVP SJIE													
0%	3,000	3,545	5,318	5,484	7,203	6,099	4,514	3,492	2,469	2,701	2,699	3,000	3,533
10%	3,163	4,459	7,269	8,771	11,045	11,527	9,030	6,155	4,383	3,040	4,608	3,011	5,849
25%	4,532	6,324	8,281	11,547	16,083	15,772	12,071	9,593	5,205	4,008	5,201	4,104	7,539
50%	5,981	8,167	13,187	22,486	28,615	24,846	17,120	14,370	8,271	8,476	7,892	5,527	10,364
75%	8,374	9,735	32,411	43,709	55,955	41,802	27,586	21,107	11,751	10,602	9,581	12,015	18,692
90%	9,558	15,941	57,435	80,768	100,003	70,971	46,183	34,498	20,436	11,721	10,655	13,089	25,511
100%	29,920	53,701	120,854	173,563	196,369	175,684	107,094	51,679	46,797	20,599	15,488	21,180	39,438
Mean	6,751	10,011	24,133	35,668	44,169	34,344	23,294	17,115	10,564	7,753	7,721	7,726	13,752
55 w/WSAs no CVP SJIE													
0%	3,000	3,537	4,726	5,451	6,183	5,896	4,526	3,191	2,431	2,735	2,914	3,003	3,361
10%	3,089	4,332	6,863	8,756	11,175	10,795	6,615	5,636	4,422	3,114	4,488	3,439	5,647
25%	4,187	6,223	8,657	12,084	15,864	16,192	11,446	7,933	4,812	4,770	4,990	4,018	7,069
50%	5,909	8,062	13,467	22,700	28,484	22,561	17,732	14,441	8,204	8,076	8,979	7,002	10,356
75%	7,953	9,997	31,471	42,304	57,330	41,892	28,607	23,840	12,689	10,973	10,105	11,704	19,049
90%	9,784	14,082	53,645	79,410	99,293	67,839	46,667	34,302	22,216	11,767	10,794	12,690	25,778
100%	32,020	53,121	119,429	171,374	194,702	175,670	106,466	50,863	44,761	20,689	21,067	21,737	39,831
Mean	6,559	9,829	23,607	35,233	43,761	34,167	23,253	17,191	10,795	7,969	7,971	7,714	13,680
55 no CVP SJIE													
0%	3,000	3,503	4,626	5,080	6,041	6,415	4,889	4,300	2,551	2,698	2,561	3,000	3,525
10%	3,003	4,505	6,604	8,736	11,196	12,833	9,970	7,384	4,378	3,007	3,572	3,004	6,058
25%	4,127	5,941	8,980	12,183	17,149	17,450	14,224	11,225	5,498	3,605	4,897	3,892	7,687
50%	5,744	8,131	13,233	22,820	27,966	26,019	20,374	16,688	8,593	5,235	7,355	5,732	10,755
75%	7,591	10,419	31,433	44,305	57,309	41,959	29,824	25,280	12,883	10,111	9,979	10,437	18,936
90%	9,634	14,939	55,371	79,182	100,081	68,144	48,227	35,423	23,266	11,627	10,819	11,941	25,441
100%	32,446	54,015	120,532	170,978	188,663	174,061	107,098	50,893	44,774	20,695	15,719	21,022	39,393
Mean	6,433	10,014	23,887	35,765	44,425	35,336	25,411	19,006	11,181	6,866	7,288	7,105	13,959
65 no CVP SJIE													
0%	3,000	3,522	3,921	7,289	6,048	6,811	4,889	5,168	3,019	2,596	2,565	3,000	3,991
10%	3,004	4,494	6,101	9,548	11,228	12,439	10,656	8,279	4,608	3,131	3,358	3,001	6,286
25%	4,037	5,967	7,853	12,537	19,242	19,938	15,460	13,026	6,109	3,814	3,862	3,959	8,205
50%	4,873	7,896	13,478	24,350	29,639	27,769	23,042	18,959	8,668	4,593	5,204	4,741	11,052
75%	6,863	10,451	32,598	44,100	58,688	44,686	33,508	28,557	13,210	7,326	9,985	8,829	19,148
90%	9,406	14,536	55,801	85,160	99,325	69,752	51,522	37,987	24,608	11,205	11,542	9,819	26,887
100%	32,087	53,948	120,438	172,001	186,236	173,368	106,464	51,430	43,840	21,633	21,141	14,291	39,054
Mean	5,929	9,927	24,156	36,404	45,271	36,967	27,926	21,091	11,744	6,040	6,735	6,231	14,301

Table H1a4-66. Water Year Average of Monthly Flows (cfs) — Sacramento River at Rio Vista (SWRCB Sac at Rio Vista)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	5,105	6,331	10,837	12,213	13,622	10,784	5,895	4,919	4,827	4,116	4,399	3,354
D	6,302	8,354	14,365	13,270	19,796	17,150	8,302	6,911	7,489	8,993	7,817	4,870
BN	6,868	8,413	14,727	21,563	31,661	22,271	14,890	9,712	7,730	10,880	9,160	7,751
AN	6,476	11,197	21,062	41,909	55,745	41,745	20,409	16,600	8,700	12,010	9,156	13,470
W	8,878	14,976	44,870	68,295	80,650	60,650	39,813	26,815	18,027	10,596	10,732	12,613
All	7,019	10,390	23,920	34,836	43,873	33,267	20,194	14,332	10,445	9,418	8,568	8,567
35 no CVP SJIE												
C	5,406	5,924	10,687	12,620	14,264	11,899	6,812	5,661	4,334	3,596	4,691	3,196
D	6,079	8,378	15,035	13,688	20,743	18,928	11,571	9,339	6,168	6,390	6,694	4,822
BN	6,846	8,326	14,817	22,451	32,842	23,546	17,661	12,334	8,361	9,821	8,513	6,256
AN	6,274	10,579	20,178	43,859	56,478	43,105	21,505	17,564	9,330	11,113	9,247	13,221
W	8,758	14,854	45,353	68,573	79,132	59,446	39,988	27,405	18,491	10,521	10,355	12,579
All	6,953	10,201	24,101	35,486	44,043	33,887	21,786	15,791	10,410	8,421	8,138	8,203
45 no CVP SJIE												
C	5,023	5,838	10,562	12,116	15,098	12,802	7,695	6,500	4,214	3,256	4,392	3,032
D	5,947	8,215	14,944	13,759	21,360	20,275	13,976	10,609	5,620	5,285	5,701	4,580
BN	6,741	8,062	14,973	22,521	32,743	24,689	20,076	14,306	8,667	8,446	7,446	5,189
AN	6,232	10,321	20,608	44,719	56,153	42,180	23,008	19,751	10,386	10,461	9,199	12,472
W	8,478	14,665	45,321	69,002	78,842	59,133	40,599	28,271	18,849	10,437	10,560	12,246
All	6,751	10,011	24,133	35,668	44,169	34,344	23,294	17,115	10,564	7,753	7,721	7,726
55 w/WSAs no CVP SJIE												
C	4,827	5,610	10,079	11,891	14,372	11,851	6,435	5,335	3,934	3,059	4,056	3,306
D	5,529	7,861	14,807	13,707	21,012	19,856	12,698	9,286	5,347	5,161	5,973	4,698
BN	6,584	7,896	14,966	22,113	32,498	24,784	19,980	14,148	8,336	8,920	7,694	5,867
AN	5,853	9,737	20,707	43,695	55,965	41,767	23,846	21,011	11,060	10,250	9,315	11,497
W	8,504	14,783	43,909	68,391	78,369	59,465	41,799	29,711	19,900	11,133	11,160	11,934
All	6,559	9,829	23,607	35,233	43,761	34,167	23,253	17,191	10,795	7,969	7,971	7,714
55 no CVP SJIE												
C	4,751	5,572	10,134	12,305	15,595	13,635	8,712	7,539	4,462	2,958	3,478	3,060
D	5,452	8,037	15,135	13,809	22,492	22,194	16,506	12,380	5,979	3,920	4,888	4,418
BN	6,209	8,096	14,818	23,183	33,066	26,508	23,319	16,653	8,526	6,320	6,559	5,160
AN	5,973	10,316	20,699	45,187	56,006	43,138	25,555	22,728	11,392	8,432	8,826	9,512
W	8,376	14,927	44,659	68,578	78,447	59,019	42,114	29,981	20,178	10,830	10,926	11,502
All	6,433	10,014	23,887	35,765	44,425	35,336	25,411	19,006	11,181	6,866	7,288	7,105
65 no CVP SJIE												
C	4,195	5,407	10,205	13,705	16,264	14,990	9,916	8,854	4,980	3,101	3,290	3,045
D	5,050	8,239	15,504	14,345	24,257	24,826	18,106	14,047	6,577	3,853	4,071	4,198
BN	5,794	7,732	14,733	23,966	33,904	28,898	26,839	18,803	9,585	4,458	4,848	4,759
AN	5,406	10,042	20,362	46,176	56,650	44,937	29,020	25,059	11,397	5,923	7,288	7,695
W	7,793	14,921	45,426	68,654	78,801	59,514	44,984	32,643	20,649	10,260	11,500	9,766
All	5,929	9,927	24,156	36,404	45,271	36,967	27,926	21,091	11,744	6,040	6,735	6,231

H1a4.2.34 Stony Creek below Black Butte Reservoir (SWRCB Black Butte)

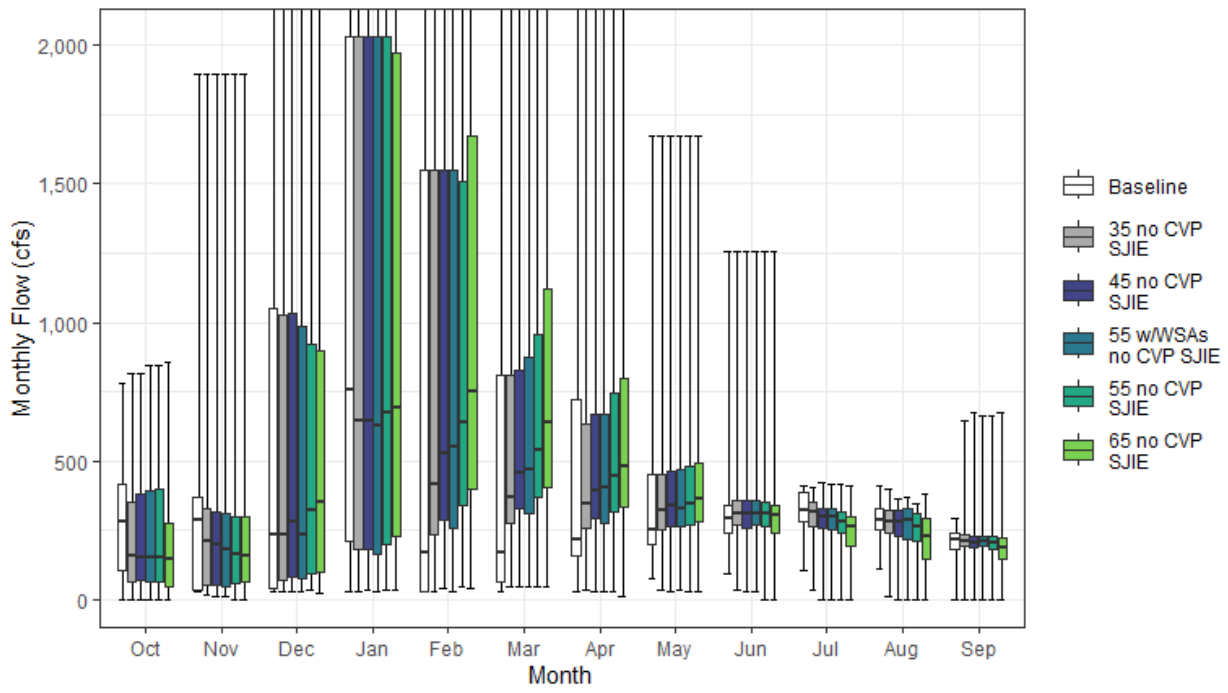

Figure H1a4-34. Stony Creek Streamflow below Black Butte Reservoir Monthly Boxplot (cfs)

Table H1a4-67. Cumulative Distribution of Monthly Flow (cfs) — Stony Creek below Black Butte Reservoir (SWRCB Black Butte)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	30	30	30	30	30	30	73	94	104	108	0	44
10%	53	30	30	64	30	54	89	182	211	248	219	112	125
25%	102	31	42	209	30	61	159	199	238	279	248	182	165
50%	279	284	231	755	169	167	213	248	293	320	284	213	283
75%	416	366	1,052	2,031	1,549	809	724	451	342	384	326	239	590
90%	532	680	2,192	3,933	3,202	1,744	1,336	888	383	410	385	255	753
100%	778	1,895	4,949	8,485	9,018	6,740	3,880	1,672	1,254	410	410	294	1,396
Mean	284	320	776	1,384	1,096	686	569	400	306	324	289	199	399
35 no CVP SJIE													
0%	0	13	30	30	30	44	35	33	33	33	11	0	26
10%	41	31	37	85	116	170	203	214	221	232	213	145	152
25%	63	51	70	182	233	272	260	251	266	261	240	190	190
50%	157	210	234	647	417	370	345	319	311	317	280	210	285
75%	350	326	1,028	2,031	1,549	809	632	450	359	352	319	231	591
90%	590	473	2,097	3,825	3,202	1,675	1,279	761	400	370	341	254	735
100%	816	1,895	4,949	8,032	9,018	6,740	3,880	1,672	1,254	405	399	644	1,383
Mean	234	257	752	1,337	1,196	786	605	421	324	300	269	205	402
45 no CVP SJIE													
0%	0	11	30	32	38	44	30	30	30	0	0	0	22
10%	29	31	46	101	144	203	208	207	220	183	106	109	156
25%	71	48	80	180	285	325	292	260	259	255	228	188	199
50%	150	195	280	647	527	455	393	339	311	297	280	206	291
75%	377	313	1,032	2,031	1,549	827	669	464	355	329	322	227	595
90%	677	448	2,097	3,825	3,202	1,621	1,279	729	388	356	336	267	727
100%	816	1,895	4,949	7,921	9,018	6,740	3,880	1,672	1,254	421	360	676	1,388
Mean	242	239	734	1,318	1,231	832	624	428	319	280	254	210	403
55 w/WSAs no CVP SJIE													
0%	0	8	30	30	30	43	30	33	30	0	0	0	20
10%	34	31	45	89	135	203	209	209	219	188	93	146	153
25%	64	48	73	164	256	308	277	261	271	251	217	190	194
50%	150	182	234	629	551	470	405	327	307	299	285	209	298
75%	393	313	988	2,031	1,549	875	669	468	356	329	325	229	607
90%	765	446	2,097	3,825	3,202	1,621	1,271	729	399	357	338	255	729
100%	847	1,895	4,949	7,937	9,018	6,740	3,880	1,672	1,254	418	369	660	1,398
Mean	247	239	727	1,312	1,231	828	622	427	318	279	255	220	403
55 no CVP SJIE													
0%	0	0	31	35	46	42	27	30	0	0	0	0	21
10%	0	29	53	113	164	237	217	217	213	83	30	2	165
25%	61	56	90	201	341	368	315	271	261	236	208	179	211
50%	148	161	322	672	638	541	444	343	307	280	264	204	306
75%	400	299	920	2,031	1,509	958	746	480	350	317	312	228	602
90%	765	432	1,989	3,825	3,202	1,621	1,271	737	395	337	325	268	723
100%	847	1,895	4,949	7,823	9,018	6,740	3,880	1,672	1,254	418	345	660	1,398
Mean	243	227	706	1,307	1,273	887	649	436	316	257	232	211	405
65 no CVP SJIE													
0%	0	0	25	32	38	44	12	30	0	0	0	0	17
10%	0	20	55	128	185	259	228	216	201	59	0	0	158
25%	46	62	100	227	397	404	335	281	241	193	144	144	216
50%	144	157	353	693	748	638	479	365	301	265	226	189	335
75%	273	300	900	1,972	1,673	1,122	797	492	340	299	291	220	574
90%	770	455	1,974	3,647	3,164	1,740	1,217	812	394	324	311	288	737
100%	857	1,895	4,949	7,618	9,018	6,740	3,577	1,672	1,254	408	381	675	1,398
Mean	233	229	696	1,283	1,335	964	666	447	307	233	201	192	407

Table H1a4-68. Water Year Average of Monthly Flows (cfs) — Stony Creek below Black Butte Reservoir (SWRCB Black Butte)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	162	111	153	292	123	134	135	187	227	285	246	155
D	255	270	373	385	236	184	210	251	274	317	268	182
BN	305	289	404	786	538	259	345	269	290	305	299	210
AN	282	341	848	2,077	1,734	855	556	475	314	350	299	221
W	358	478	1,611	2,801	2,345	1,553	1,212	676	378	353	317	220
All	284	320	776	1,384	1,096	686	569	400	306	324	289	199
35 no CVP SJIE												
C	98	78	140	250	262	248	200	214	221	256	182	108
D	240	205	361	378	377	348	287	287	294	295	283	202
BN	241	215	399	708	656	395	413	321	308	314	286	210
AN	143	217	786	1,992	1,744	908	578	448	357	333	310	228
W	334	432	1,575	2,755	2,419	1,593	1,186	683	396	305	278	246
All	234	257	752	1,337	1,196	786	605	421	324	300	269	205
45 no CVP SJIE												
C	123	81	163	242	296	289	206	217	214	236	144	85
D	240	193	353	387	432	426	326	298	295	293	282	193
BN	250	188	379	664	695	450	448	332	307	296	307	206
AN	132	183	707	1,946	1,761	936	574	480	342	322	289	223
W	344	410	1,555	2,738	2,444	1,619	1,196	676	392	268	244	286
All	242	239	734	1,318	1,231	832	624	428	319	280	254	210
55 w/WSAs no CVP SJIE												
C	124	81	142	228	260	258	197	214	214	252	190	105
D	260	203	342	374	403	397	311	293	282	306	282	194
BN	250	177	377	679	692	457	449	323	310	310	306	210
AN	128	178	735	1,947	1,794	937	580	485	350	318	297	226
W	350	412	1,541	2,724	2,471	1,638	1,202	683	393	239	222	305
All	247	239	727	1,312	1,231	828	622	427	318	279	255	220
55 no CVP SJIE												
C	125	81	193	254	342	329	209	217	205	178	123	79
D	240	198	341	388	492	503	367	316	286	297	273	169
BN	245	180	347	682	766	538	518	330	321	294	276	205
AN	134	183	675	1,841	1,796	974	582	497	340	297	281	211
W	350	374	1,487	2,726	2,455	1,653	1,201	683	385	230	213	315
All	243	227	706	1,307	1,273	887	649	436	316	257	232	211
65 no CVP SJIE												
C	92	71	219	291	392	373	219	215	188	148	104	66
D	210	179	359	396	575	580	401	331	281	275	218	123
BN	224	181	351	709	860	633	572	358	303	284	259	168
AN	119	191	695	1,725	1,889	1,073	617	503	342	268	258	201
W	377	394	1,418	2,649	2,474	1,726	1,179	688	377	203	181	321
All	233	229	696	1,283	1,335	964	666	447	307	233	201	192

H1a4.2.35 Stony Creek above Confluence with Sacramento River (SWRCB Stony Creek)

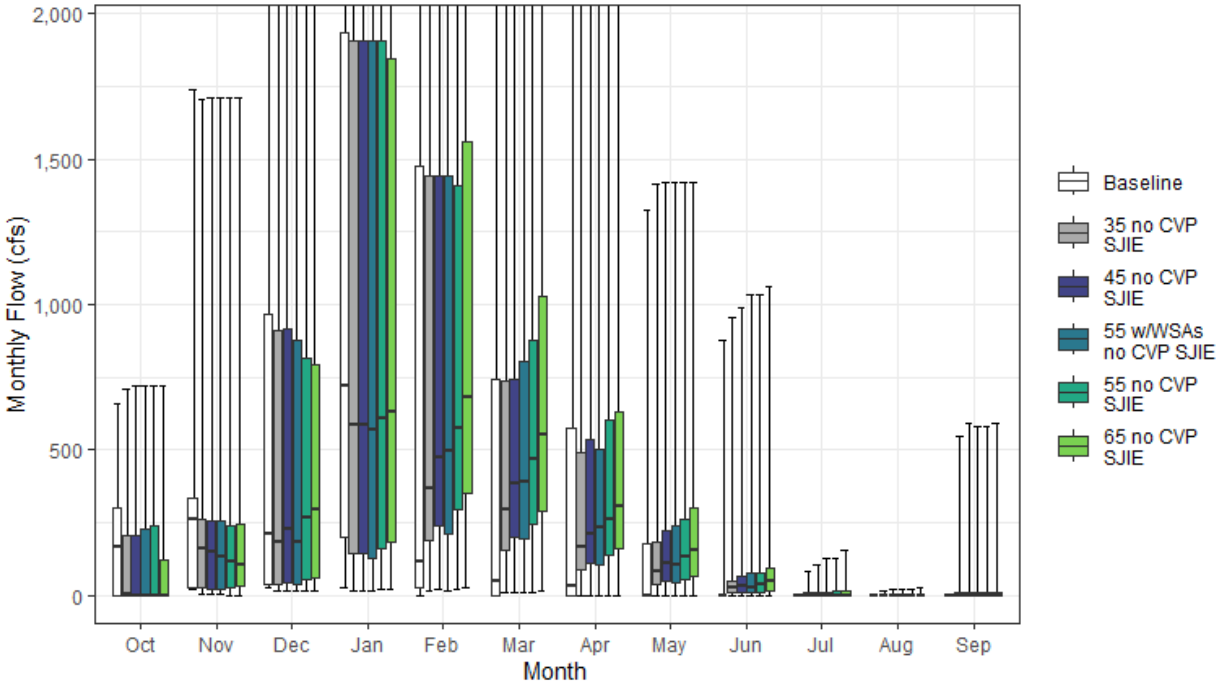

Figure H1a4-35. Stony Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-69. Cumulative Distribution of Monthly Flow (cfs) — Stony Creek above Confluence with Sacramento River (SWRCB Stony Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	23	27	29	0	0	0	0	0	0	0	0	5
10%	0	27	27	61	29	0	0	0	0	0	0	0	30
25%	0	28	37	199	29	0	0	0	0	0	0	0	63
50%	169	260	211	719	115	49	34	1	0	0	0	0	180
75%	302	335	964	1,934	1,475	741	573	177	1	0	0	0	455
90%	433	622	2,010	3,745	3,048	1,632	1,111	536	3	0	0	0	606
100%	658	1,738	4,538	8,078	8,586	6,389	3,344	1,325	874	0	0	0	1,204
Mean	182	292	711	1,318	1,040	598	394	156	21	0	0	0	283
35 no CVP SJIE													
0%	0	5	14	15	15	7	1	1	0	0	0	0	6
10%	0	14	17	51	69	80	37	16	1	0	0	0	46
25%	0	23	36	144	187	155	87	36	7	0	0	1	80
50%	2	162	184	586	367	297	165	84	25	0	0	3	172
75%	206	261	913	1,904	1,445	737	491	184	50	8	0	5	455
90%	424	404	1,893	3,612	3,018	1,548	1,058	480	108	15	3	9	597
100%	709	1,707	4,508	7,617	8,556	6,387	3,340	1,414	956	82	14	547	1,253
Mean	121	210	662	1,243	1,104	691	422	194	54	6	1	13	283
45 no CVP SJIE													
0%	0	6	14	15	18	10	1	1	0	0	0	0	6
10%	0	16	21	66	88	103	47	20	1	0	0	0	56
25%	0	22	43	142	241	199	112	46	9	0	0	0	90
50%	1	149	226	586	472	382	212	108	32	0	0	3	170
75%	204	254	916	1,904	1,444	740	536	220	64	10	0	7	458
90%	491	376	1,893	3,612	3,018	1,507	1,066	504	139	20	4	15	600
100%	721	1,708	4,508	7,511	8,556	6,387	3,340	1,422	990	105	19	592	1,263
Mean	128	192	645	1,225	1,137	732	442	212	66	8	1	30	289
55 w/WSAs no CVP SJIE													
0%	0	5	15	15	15	7	1	1	0	0	0	0	6
10%	0	15	20	55	90	93	44	19	1	0	0	0	48
25%	0	23	37	126	209	194	105	43	8	0	0	1	83
50%	0	134	184	569	494	392	231	103	28	0	0	3	181
75%	226	254	876	1,904	1,444	803	500	239	75	12	0	8	468
90%	587	371	1,893	3,612	3,018	1,508	1,062	513	153	23	4	23	602
100%	721	1,708	4,508	7,526	8,556	6,387	3,340	1,422	1,036	129	23	578	1,274
Mean	138	192	639	1,219	1,138	728	437	215	70	9	1	42	289
55 no CVP SJIE													
0%	0	0	14	18	22	12	0	1	0	0	0	0	7
10%	0	15	25	77	108	126	58	24	0	0	0	0	67
25%	0	26	52	161	295	243	137	57	11	0	0	0	101
50%	0	117	265	610	577	467	259	132	39	0	0	4	190
75%	241	241	814	1,904	1,406	874	601	260	79	12	0	9	467
90%	602	363	1,794	3,612	3,018	1,508	1,068	520	171	24	5	38	615
100%	721	1,708	4,508	7,418	8,556	6,387	3,340	1,422	1,036	129	23	578	1,274
Mean	137	181	619	1,215	1,178	784	467	231	75	9	2	46	296
65 no CVP SJIE													
0%	0	0	16	22	26	14	0	1	0	0	0	0	8
10%	0	14	30	91	128	149	68	29	0	0	0	0	76
25%	0	29	62	186	348	287	162	67	13	0	0	0	119
50%	0	105	293	630	682	551	306	156	46	0	0	5	216
75%	120	243	795	1,848	1,562	1,030	632	299	93	15	0	11	461
90%	640	382	1,780	3,442	2,982	1,627	1,027	570	208	29	6	115	619
100%	721	1,708	4,508	7,223	8,556	6,387	3,076	1,422	1,059	152	27	591	1,276
Mean	138	182	610	1,192	1,238	855	488	249	84	11	2	55	305

Table H1a4-70. Water Year Average of Monthly Flows (cfs) — Stony Creek above Confluence with Sacramento River (SWRCB Stony Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	82	101	140	278	103	25	2	4	1	0	0	0
D	157	246	342	366	222	103	67	35	0	0	0	0
BN	192	263	370	748	507	201	179	43	1	0	0	0
AN	187	312	777	1,978	1,651	779	397	212	8	0	0	0
W	247	438	1,477	2,667	2,232	1,445	976	375	64	0	0	0
All	182	292	711	1,318	1,040	598	394	156	21	0	0	0
35 no CVP SJIE												
C	34	56	106	212	202	142	50	27	9	0	0	2
D	123	164	303	330	322	254	122	68	13	1	1	3
BN	116	172	341	645	588	322	237	93	26	2	0	2
AN	42	171	691	1,866	1,631	831	417	217	48	7	0	4
W	202	367	1,414	2,593	2,273	1,481	960	431	129	14	2	38
All	121	210	662	1,243	1,104	691	422	194	54	6	1	13
45 no CVP SJIE												
C	48	57	125	203	235	183	65	34	11	0	0	2
D	125	152	295	338	377	321	156	82	16	2	1	4
BN	123	144	320	602	626	372	272	115	33	3	0	2
AN	41	142	618	1,823	1,646	857	419	247	62	9	1	5
W	210	345	1,396	2,576	2,297	1,506	969	449	153	18	3	92
All	128	192	645	1,225	1,137	732	442	212	66	8	1	30
55 w/WSAs no CVP SJIE												
C	55	57	108	191	203	148	52	27	9	0	0	2
D	137	159	284	326	350	298	136	73	14	2	1	3
BN	131	134	319	616	624	378	267	107	31	3	0	2
AN	31	137	643	1,823	1,678	857	424	258	67	10	1	5
W	231	347	1,383	2,563	2,322	1,524	977	469	168	22	4	130
All	138	192	639	1,219	1,138	728	437	215	70	9	1	42
55 no CVP SJIE												
C	63	58	152	214	281	223	79	42	14	0	0	3
D	129	154	283	339	437	392	191	100	20	2	1	4
BN	126	135	290	620	690	452	328	128	41	4	0	3
AN	33	143	589	1,722	1,680	892	431	279	76	11	1	6
W	232	312	1,334	2,565	2,308	1,538	978	475	170	22	4	145
All	137	181	619	1,215	1,178	784	467	231	75	9	2	46
65 no CVP SJIE												
C	50	52	180	250	333	264	93	50	16	0	0	2
D	114	136	299	347	516	464	225	118	23	2	1	4
BN	131	136	293	645	781	535	388	151	48	4	0	3
AN	19	146	607	1,612	1,768	985	466	303	91	13	1	14
W	256	330	1,270	2,492	2,326	1,609	963	491	184	26	5	170
All	138	182	610	1,192	1,238	855	488	249	84	11	2	55

H1a4.2.36Sutter Bypass near Karnak

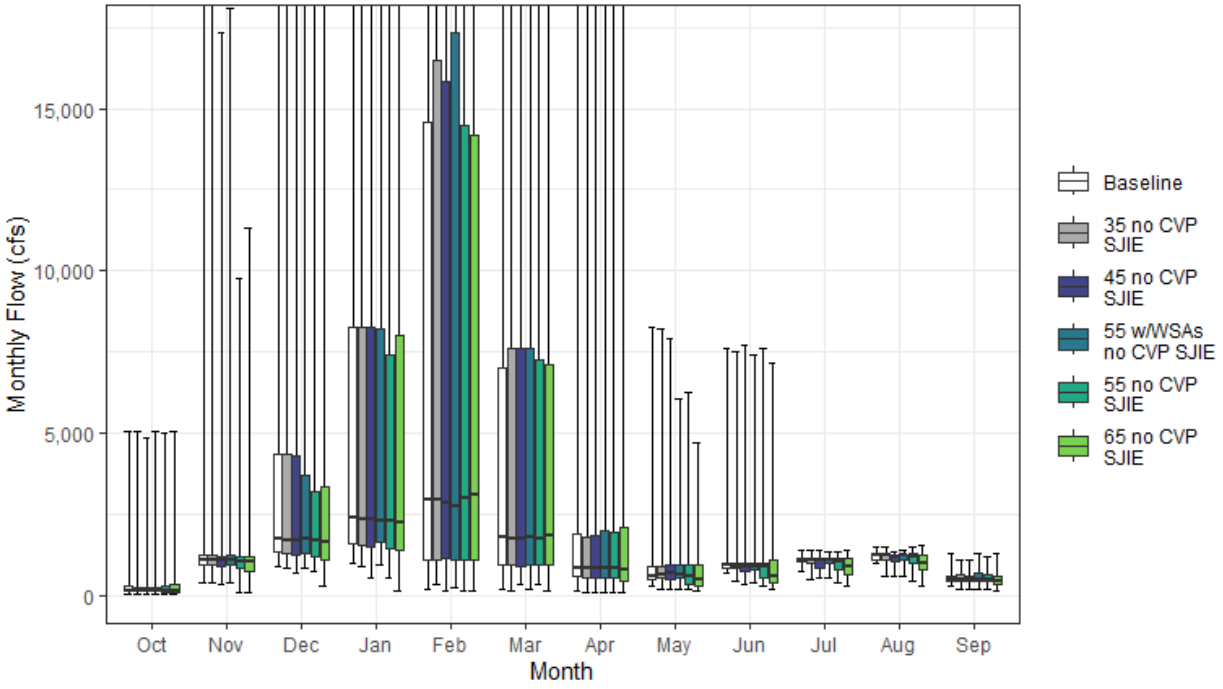

Figure H1a4-36. Sutter Bypass Streamflow near Karnak Monthly Boxplot (cfs)

Table H1a4-71. Cumulative Distribution of Monthly Flow (cfs) — Sutter Bypass near Karnak

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	59	396	908	997	174	177	132	283	673	741	975	292	472
10%	104	843	1,145	1,233	587	577	363	355	775	877	1,061	363	676
25%	122	962	1,333	1,569	1,091	927	569	473	829	1,060	1,098	436	835
50%	155	1,100	1,729	2,372	2,945	1,769	836	603	922	1,097	1,248	481	1,391
75%	264	1,248	4,352	8,277	14,606	7,008	1,905	910	1,000	1,152	1,291	605	3,569
90%	539	1,495	17,897	27,589	38,972	21,497	7,847	1,177	1,106	1,223	1,443	689	6,432
100%	5,072	20,109	41,198	71,772	103,813	74,776	37,338	8,274	7,619	1,390	1,503	1,265	10,125
Mean	288	1,419	5,393	9,117	12,378	7,065	2,941	864	1,044	1,092	1,229	521	2,586
35 no CVP SJIE													
0%	47	390	812	873	314	124	84	190	429	500	583	198	356
10%	97	842	984	1,168	579	571	286	291	535	780	874	378	624
25%	116	961	1,276	1,538	1,095	913	518	523	819	966	1,072	426	781
50%	146	1,084	1,714	2,332	2,946	1,725	841	626	908	1,085	1,233	481	1,344
75%	251	1,244	4,355	8,284	16,487	7,620	1,783	888	990	1,127	1,275	644	3,556
90%	473	1,464	16,457	27,492	38,917	21,486	7,852	1,318	1,112	1,179	1,301	701	6,165
100%	5,048	19,927	41,171	71,709	103,786	74,774	37,335	8,214	7,485	1,386	1,480	1,102	10,088
Mean	269	1,363	5,216	9,015	12,333	7,148	2,901	873	1,000	1,029	1,153	523	2,554
45 no CVP SJIE													
0%	58	347	690	552	124	314	94	191	360	512	588	192	348
10%	86	741	968	1,135	615	599	327	279	515	658	776	344	628
25%	111	872	1,262	1,496	1,136	909	553	500	747	833	1,046	433	753
50%	143	1,087	1,686	2,330	2,847	1,764	841	668	899	1,065	1,212	472	1,281
75%	256	1,210	4,309	8,259	15,846	7,586	1,865	927	975	1,117	1,263	609	3,498
90%	542	1,543	15,218	27,488	38,872	21,478	7,867	1,316	1,081	1,168	1,297	722	6,196
100%	4,853	17,331	41,170	71,788	103,703	74,774	37,335	7,929	7,699	1,372	1,359	1,097	10,081
Mean	271	1,296	5,063	8,982	12,169	7,115	2,915	869	972	991	1,127	511	2,522
55 w/WSAs no CVP SJIE													
0%	47	406	848	924	228	163	95	189	392	524	589	201	384
10%	97	818	1,120	1,187	568	572	352	295	534	782	894	380	626
25%	114	938	1,277	1,635	1,111	930	527	515	809	1,004	1,068	450	780
50%	144	1,075	1,726	2,315	2,743	1,783	841	637	905	1,080	1,214	504	1,356
75%	253	1,245	3,700	8,235	17,336	7,597	1,986	952	1,004	1,120	1,255	663	3,556
90%	547	1,541	15,645	26,980	38,828	21,479	7,787	1,177	1,169	1,167	1,289	713	6,173
100%	5,037	18,095	41,170	71,746	103,702	74,774	37,335	6,074	7,403	1,328	1,396	1,280	10,075
Mean	276	1,345	4,928	8,977	12,349	7,254	2,950	865	1,006	1,028	1,143	554	2,545
55 no CVP SJIE													
0%	46	75	725	544	150	316	83	167	288	392	435	192	333
10%	82	626	897	1,083	556	572	277	246	415	593	706	258	588
25%	106	858	1,187	1,433	1,084	926	537	327	514	807	964	413	732
50%	139	1,041	1,688	2,288	2,993	1,758	832	599	862	1,053	1,179	487	1,246
75%	260	1,184	3,173	7,429	14,458	7,251	1,959	936	998	1,121	1,269	645	3,510
90%	471	1,507	14,301	27,600	38,866	20,321	7,856	1,249	1,196	1,187	1,300	708	6,047
100%	4,992	9,787	41,170	71,698	103,676	74,774	37,286	6,270	7,622	1,334	1,487	1,173	10,086
Mean	263	1,204	4,507	8,693	11,951	7,096	2,960	795	920	960	1,085	513	2,441
65 no CVP SJIE													
0%	46	68	275	121	123	120	79	132	175	303	303	154	267
10%	83	303	800	962	504	561	205	196	321	469	504	219	509
25%	101	752	1,112	1,402	1,078	929	414	271	410	643	786	330	697
50%	140	1,032	1,622	2,254	3,110	1,840	789	473	611	892	1,002	461	1,259
75%	318	1,212	3,327	7,998	14,187	7,132	2,094	920	1,104	1,123	1,241	590	3,464
90%	504	1,544	12,194	26,791	37,460	18,762	8,272	1,358	1,210	1,272	1,307	688	6,129
100%	5,068	11,305	41,166	71,710	99,970	74,775	37,039	4,697	7,172	1,382	1,533	1,277	10,141
Mean	275	1,150	4,407	8,622	11,959	7,060	3,096	703	837	885	981	468	2,410

Table H1a4-72. Water Year Average of Monthly Flows (cfs) — Sutter Bypass near Karnak

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	157	994	1,895	1,764	1,634	1,161	405	526	815	918	1,108	379
D	221	1,095	2,550	1,958	2,794	2,132	705	543	957	1,119	1,296	528
BN	240	1,037	3,238	2,805	6,766	1,994	1,256	584	905	1,095	1,316	501
AN	258	1,041	3,782	10,790	16,743	8,154	1,570	1,222	936	1,167	1,257	589
W	450	2,276	11,354	21,616	26,945	16,607	7,548	1,315	1,362	1,134	1,177	577
All	288	1,419	5,393	9,117	12,378	7,065	2,941	864	1,044	1,092	1,229	521
35 no CVP SJIE												
C	149	999	1,814	1,639	1,572	1,107	285	335	551	735	818	323
D	187	1,082	2,540	1,922	2,690	2,205	686	586	871	1,036	1,243	546
BN	210	1,064	3,153	2,765	6,864	2,007	1,165	676	887	1,068	1,260	541
AN	236	1,000	3,373	10,740	17,080	8,662	1,609	1,265	986	1,150	1,218	632
W	444	2,098	11,036	21,420	26,710	16,645	7,535	1,339	1,412	1,107	1,174	557
All	269	1,363	5,216	9,015	12,333	7,148	2,901	873	1,000	1,029	1,153	523
45 no CVP SJIE												
C	160	874	1,790	1,602	1,570	1,109	316	319	516	675	778	309
D	193	1,046	2,354	1,901	2,647	2,138	696	507	794	973	1,219	539
BN	220	989	2,994	2,696	6,346	2,132	1,232	700	866	1,049	1,223	526
AN	226	1,058	3,750	10,540	16,746	8,382	1,577	1,267	957	1,128	1,198	579
W	439	1,995	10,630	21,468	26,662	16,618	7,530	1,376	1,419	1,080	1,156	561
All	271	1,296	5,063	8,982	12,169	7,115	2,915	869	972	991	1,127	511
55 w/WSAs no CVP SJIE												
C	150	997	1,854	1,682	1,560	1,128	333	346	567	740	844	365
D	185	1,087	2,316	1,931	2,698	2,297	670	572	814	1,047	1,217	588
BN	227	1,040	3,121	2,741	6,687	2,420	1,223	680	906	1,099	1,243	590
AN	245	1,084	3,621	10,799	17,631	8,738	1,590	1,228	984	1,129	1,212	642
W	454	2,017	10,151	21,256	26,655	16,625	7,654	1,328	1,453	1,082	1,158	571
All	276	1,345	4,928	8,977	12,349	7,254	2,950	865	1,006	1,028	1,143	554
55 no CVP SJIE												
C	132	795	1,718	1,521	1,450	1,120	248	244	425	577	667	272
D	168	989	2,119	1,677	2,730	2,112	701	407	597	868	1,059	534
BN	212	989	2,507	2,709	6,031	2,272	1,416	586	810	1,035	1,209	530
AN	238	941	2,903	10,232	16,544	8,431	1,637	1,262	967	1,155	1,260	605
W	447	1,819	9,653	20,838	26,226	16,460	7,569	1,319	1,472	1,106	1,178	579
All	263	1,204	4,507	8,693	11,951	7,096	2,960	795	920	960	1,085	513
65 no CVP SJIE												
C	151	635	1,604	1,374	1,366	1,027	204	218	359	518	539	253
D	191	1,019	2,200	1,769	3,236	2,339	551	271	425	706	852	446
BN	204	852	2,402	2,903	6,270	2,599	1,627	504	559	869	1,015	466
AN	248	951	2,643	9,806	16,245	7,764	2,022	1,002	933	1,116	1,251	567
W	459	1,790	9,497	20,662	25,894	16,283	7,867	1,286	1,532	1,129	1,184	560
All	275	1,150	4,407	8,622	11,959	7,060	3,096	703	837	885	981	468

H1a4.2.37 Thomes Creek above Confluence with Sacramento River (SWRCB Thomes Creek)

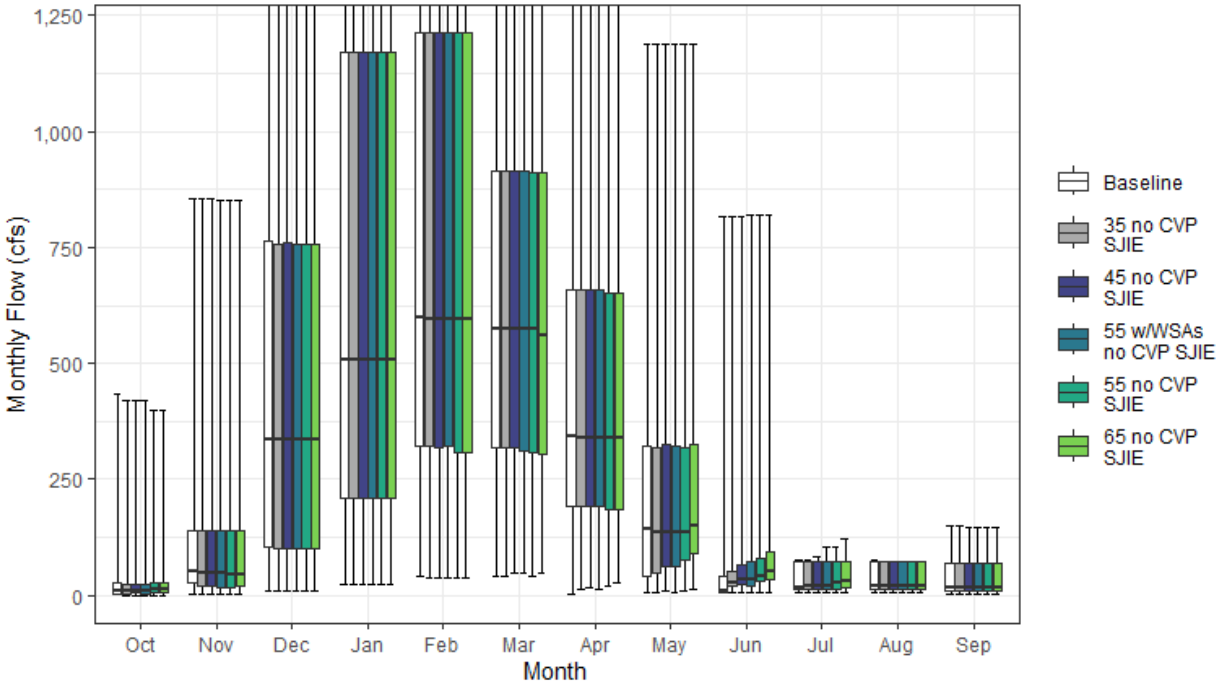

Figure H1a4-37. Thomes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a4-73. Cumulative Distribution of Monthly Flow (cfs) — Thomes Creek above Confluence with Sacramento River (SWRCB Thomes Creek)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	1	4	9	25	39	43	3	5	6	6	5	4	20
10%	2	12	37	115	152	193	85	14	6	8	7	5	73
25%	3	27	102	211	320	318	191	42	7	14	14	11	128
50%	10	52	335	509	600	576	342	144	9	18	19	17	195
75%	25	140	762	1,170	1,213	914	660	321	41	71	71	69	331
90%	64	286	1,241	1,784	2,097	1,471	920	609	137	73	73	70	450
100%	435	854	2,757	4,180	5,326	2,975	2,054	1,187	816	75	75	148	700
Mean	29	120	519	781	931	702	463	242	50	37	37	37	236
35 no CVP SJIE													
0%	1	3	10	22	39	43	14	7	6	6	5	4	22
10%	3	11	37	114	152	193	81	35	12	8	7	5	72
25%	4	18	101	211	320	319	191	49	19	14	14	11	129
50%	10	48	335	509	597	576	341	136	27	19	18	17	195
75%	22	140	758	1,170	1,213	914	659	320	52	71	71	69	332
90%	62	285	1,241	1,784	2,096	1,471	920	609	137	73	73	70	451
100%	419	854	2,757	4,180	5,326	2,975	2,054	1,190	816	76	74	151	699
Mean	28	117	518	780	930	702	461	244	61	37	37	37	237
45 no CVP SJIE													
0%	1	3	9	24	39	48	18	9	7	6	6	4	22
10%	3	10	36	114	151	193	81	45	16	8	8	5	73
25%	5	21	101	211	320	319	191	63	24	14	14	11	129
50%	11	48	335	509	597	576	341	136	35	21	18	17	198
75%	25	140	759	1,170	1,213	914	659	324	64	72	71	69	332
90%	61	285	1,240	1,784	2,096	1,471	920	609	137	73	73	70	452
100%	419	853	2,756	4,180	5,326	2,975	2,055	1,190	816	84	74	148	699
Mean	28	117	518	780	929	700	461	248	67	38	37	37	237
55 w/WSAs no CVP SJIE													
0%	1	3	10	22	39	48	14	7	6	6	6	4	22
10%	3	11	35	114	151	193	81	37	13	8	7	5	72
25%	4	16	100	211	320	310	191	63	21	14	14	11	129
50%	10	48	335	509	597	575	341	136	35	19	18	17	198
75%	25	139	759	1,170	1,213	914	660	320	71	72	71	69	332
90%	58	282	1,240	1,784	2,096	1,471	918	609	137	73	73	69	453
100%	419	853	2,756	4,180	5,326	2,975	2,054	1,187	820	103	74	147	700
Mean	28	116	517	780	929	700	461	246	68	38	37	37	237
55 no CVP SJIE													
0%	1	4	9	23	39	42	22	11	7	6	6	4	23
10%	3	11	35	114	151	174	82	55	19	10	8	5	73
25%	6	18	100	211	309	307	185	76	29	15	14	11	130
50%	12	44	335	509	596	576	341	137	42	26	19	17	198
75%	25	139	758	1,170	1,213	912	653	318	79	72	71	69	333
90%	58	282	1,239	1,784	2,096	1,471	920	609	137	73	73	69	453
100%	399	853	2,758	4,178	5,326	2,975	2,055	1,190	820	103	74	147	701
Mean	29	116	517	779	928	696	462	252	74	40	37	37	238
65 no CVP SJIE													
0%	1	4	8	22	39	48	26	13	7	6	6	4	24
10%	3	11	34	114	151	156	91	65	22	11	8	5	75
25%	7	20	100	211	309	304	185	90	35	16	14	11	130
50%	13	44	335	509	596	561	341	151	50	31	19	17	198
75%	28	138	757	1,170	1,213	912	653	324	93	72	71	69	335
90%	65	280	1,239	1,784	2,096	1,471	920	609	156	76	72	70	454
100%	400	850	2,758	4,176	5,326	2,975	2,055	1,187	820	122	74	145	701
Mean	30	115	517	779	928	695	462	258	83	42	38	37	238

Table H1a4-74. Water Year Average of Monthly Flows (cfs) — Thomes Creek above Confluence with Sacramento River (SWRCB Thomes Creek)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	17	25	253	295	402	296	119	48	14	7	7	6
D	14	107	336	286	583	485	258	104	9	14	14	19
BN	23	66	268	631	634	558	462	147	26	18	19	20
AN	34	129	556	1,116	1,246	896	500	337	55	61	60	59
W	49	211	940	1,363	1,530	1,091	781	468	112	72	72	69
All	29	120	519	781	931	702	463	242	50	37	37	37
35 no CVP SJIE												
C	15	19	250	293	401	295	119	54	17	8	7	6
D	13	104	334	285	580	486	251	108	24	15	14	19
BN	21	64	267	630	632	558	461	148	37	19	19	20
AN	32	129	555	1,115	1,246	896	500	337	72	61	60	59
W	48	208	939	1,363	1,530	1,092	781	468	123	72	72	69
All	28	117	518	780	930	702	461	244	61	37	37	37
45 no CVP SJIE												
C	17	20	251	293	400	295	120	61	22	8	7	6
D	14	104	334	285	580	480	250	115	30	16	14	19
BN	22	65	267	630	632	555	461	150	44	20	19	20
AN	32	128	554	1,115	1,246	896	499	339	79	61	60	59
W	47	208	939	1,363	1,529	1,092	781	470	129	73	72	69
All	28	117	518	780	929	700	461	248	67	38	37	37
55 w/WSAs no CVP SJIE												
C	15	20	251	293	401	296	119	55	17	8	7	6
D	14	101	334	285	579	479	251	111	26	16	14	19
BN	22	64	267	630	632	556	461	151	43	19	19	20
AN	33	127	554	1,115	1,246	896	498	337	83	61	60	59
W	47	207	938	1,363	1,529	1,091	781	471	136	75	72	69
All	28	116	517	780	929	700	461	246	68	38	37	37
55 no CVP SJIE												
C	16	20	250	293	397	287	123	66	26	9	8	6
D	15	100	333	285	579	472	253	122	37	18	14	20
BN	23	64	267	629	632	555	460	156	50	21	19	19
AN	32	126	554	1,115	1,246	896	499	340	87	61	60	59
W	47	207	938	1,363	1,529	1,089	781	471	138	75	72	69
All	29	116	517	779	928	696	462	252	74	40	37	37
65 no CVP SJIE												
C	17	22	250	293	397	292	127	74	31	10	8	6
D	17	99	333	284	579	468	255	130	43	20	15	20
BN	23	62	267	629	631	546	457	167	59	23	19	20
AN	34	126	553	1,114	1,246	895	498	344	95	64	60	59
W	49	205	938	1,362	1,529	1,089	781	474	150	78	72	69
All	30	115	517	779	928	695	462	258	83	42	38	37

H1a4.2.38Trinity River below Lewiston Reservoir (SWRCB Trinity)

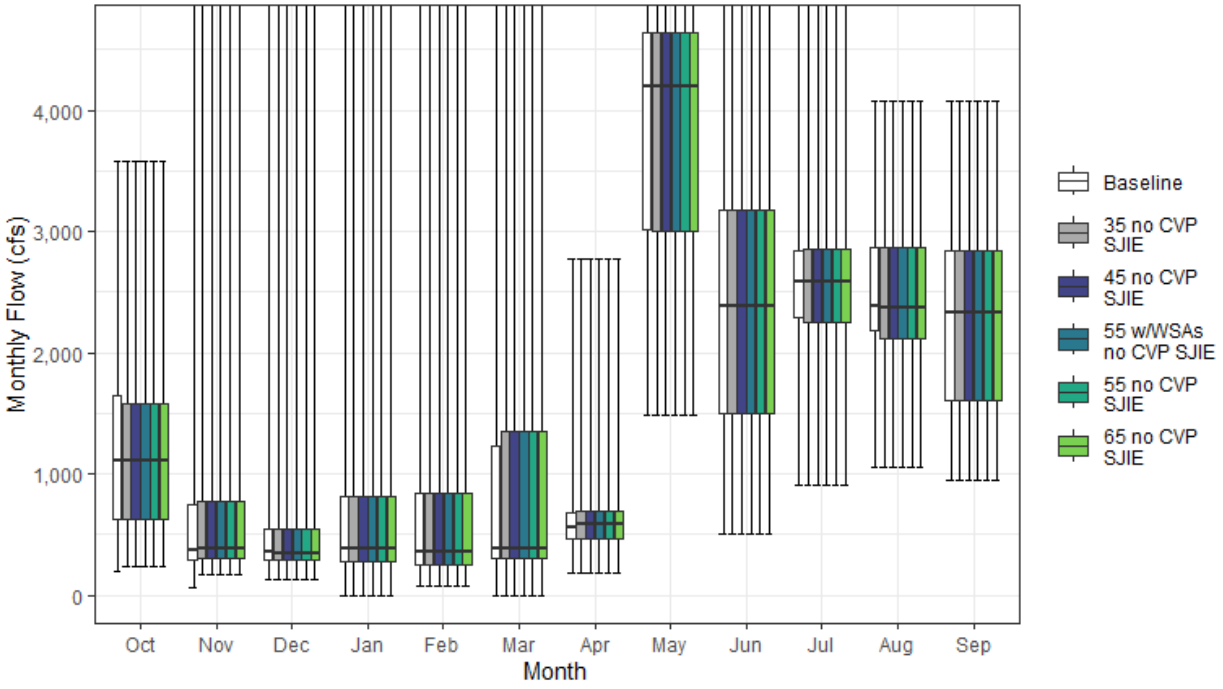

Figure H1a4-38. Trinity River Streamflow below Lewiston Reservoir Monthly Boxplot (cfs)

Table H1a4-75. Cumulative Distribution of Monthly Flow (cfs) — Trinity River below Lewiston Reservoir (SWRCB Trinity)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	199	59	134	0	74	0	177	1,481	511	904	1,060	954	657
10%	375	277	243	225	175	230	389	2,779	1,005	1,112	1,868	1,175	810
25%	625	297	288	281	253	301	463	3,010	1,505	2,295	2,184	1,601	941
50%	1,112	378	357	384	355	381	565	4,193	2,379	2,580	2,378	2,335	1,091
75%	1,649	749	550	818	840	1,236	680	4,638	3,181	2,842	2,866	2,836	1,339
90%	2,199	801	1,859	2,036	2,692	2,133	1,005	4,808	4,448	3,836	3,568	2,897	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,824
Mean	1,204	588	758	883	894	920	722	3,944	2,509	2,612	2,523	2,188	1,197
35 no CVP SJIE													
0%	239	165	134	0	74	0	177	1,481	511	904	1,060	954	661
10%	375	282	243	225	175	230	404	2,696	1,005	1,112	1,840	1,160	812
25%	625	300	288	281	252	301	467	3,000	1,505	2,251	2,121	1,607	946
50%	1,112	387	347	382	355	380	580	4,193	2,379	2,580	2,378	2,337	1,091
75%	1,573	772	550	818	840	1,357	689	4,638	3,181	2,856	2,866	2,844	1,339
90%	2,190	801	1,859	2,036	2,692	2,068	1,004	4,808	4,448	4,052	3,409	2,926	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,824
Mean	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202	1,197
45 no CVP SJIE													
0%	239	165	134	0	74	0	177	1,481	511	904	1,060	954	661
10%	375	282	243	225	175	230	404	2,696	1,005	1,112	1,840	1,160	812
25%	625	300	288	281	252	301	467	3,000	1,505	2,251	2,121	1,607	946
50%	1,112	387	347	382	355	380	580	4,193	2,379	2,580	2,378	2,337	1,091
75%	1,573	772	550	818	840	1,357	689	4,638	3,181	2,856	2,866	2,844	1,339
90%	2,190	801	1,859	2,036	2,692	2,068	1,004	4,808	4,448	4,052	3,409	2,926	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,825
Mean	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202	1,197
55 w/WSAs no CVP SJIE													
0%	239	165	134	0	74	0	177	1,481	511	904	1,060	954	661
10%	375	282	243	225	175	230	404	2,696	1,005	1,112	1,840	1,160	812
25%	625	300	288	281	252	301	467	3,000	1,505	2,251	2,121	1,607	946
50%	1,112	387	347	382	355	380	580	4,193	2,379	2,580	2,378	2,337	1,091
75%	1,573	772	550	818	840	1,357	689	4,638	3,181	2,856	2,866	2,844	1,339
90%	2,190	801	1,859	2,036	2,692	2,068	1,004	4,808	4,448	4,052	3,409	2,926	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,824
Mean	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202	1,197
55 no CVP SJIE													
0%	239	165	134	0	74	0	177	1,481	511	904	1,060	954	661
10%	375	282	243	225	175	230	404	2,696	1,005	1,112	1,840	1,160	812
25%	625	300	288	281	252	301	467	3,000	1,505	2,251	2,121	1,607	946
50%	1,112	387	347	382	355	380	580	4,193	2,379	2,580	2,378	2,337	1,091
75%	1,573	772	550	818	840	1,357	689	4,638	3,181	2,856	2,866	2,844	1,339
90%	2,190	801	1,859	2,036	2,692	2,068	1,004	4,808	4,448	4,052	3,409	2,926	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,824
Mean	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202	1,197
65 no CVP SJIE													
0%	239	165	134	0	74	0	177	1,481	511	904	1,060	954	661
10%	375	282	243	225	175	230	404	2,696	1,005	1,112	1,840	1,160	812
25%	625	300	288	281	252	301	467	3,000	1,505	2,251	2,121	1,607	946
50%	1,112	387	347	382	355	380	580	4,193	2,379	2,580	2,378	2,337	1,091
75%	1,573	772	550	818	840	1,357	689	4,638	3,181	2,856	2,866	2,844	1,340
90%	2,190	801	1,859	2,036	2,692	2,068	1,004	4,808	4,448	4,052	3,409	2,926	1,663
100%	3,576	6,095	5,637	7,952	9,461	6,170	2,779	8,633	7,808	6,611	4,079	4,075	2,824
Mean	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202	1,197

Table H1a4-76. Water Year Average of Monthly Flows (cfs) — Trinity River below Lewiston Reservoir (SWRCB Trinity)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	961	429	407	423	820	582	684	2,499	1,541	3,093	2,524	1,628
D	1,122	520	433	422	941	520	555	3,306	1,858	2,648	2,877	2,360
BN	1,306	431	465	703	662	820	648	3,939	2,405	2,253	2,515	2,168
AN	1,230	530	530	601	796	619	792	4,575	2,734	2,421	2,459	2,247
W	1,319	845	1,461	1,694	1,085	1,578	882	4,932	3,480	2,632	2,295	2,351
All	1,204	588	758	883	894	920	722	3,944	2,509	2,612	2,523	2,188
35 no CVP SJIE												
C	961	445	401	417	819	534	673	2,486	1,512	3,262	2,288	1,750
D	1,111	580	433	411	954	514	564	3,312	1,858	2,625	2,840	2,353
BN	1,237	595	465	703	662	820	648	3,939	2,405	2,253	2,515	2,142
AN	1,201	572	537	601	777	597	831	4,575	2,671	2,421	2,459	2,247
W	1,319	836	1,461	1,696	1,093	1,613	891	4,932	3,455	2,632	2,283	2,352
All	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202
45 no CVP SJIE												
C	961	445	401	417	819	534	673	2,486	1,512	3,262	2,288	1,750
D	1,111	580	433	411	954	514	564	3,312	1,858	2,625	2,840	2,353
BN	1,237	595	465	703	662	820	648	3,939	2,405	2,253	2,515	2,142
AN	1,201	572	537	601	777	597	831	4,575	2,671	2,421	2,459	2,247
W	1,319	836	1,461	1,696	1,093	1,613	891	4,932	3,455	2,632	2,283	2,352
All	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202
55 w/WSAs no CVP SJIE												
C	961	445	401	417	819	534	673	2,486	1,512	3,262	2,288	1,750
D	1,111	580	433	411	954	514	564	3,312	1,858	2,625	2,840	2,353
BN	1,237	595	465	703	662	820	648	3,939	2,405	2,253	2,515	2,142
AN	1,201	572	537	601	777	597	831	4,575	2,671	2,421	2,459	2,247
W	1,319	836	1,461	1,696	1,093	1,613	891	4,932	3,455	2,632	2,283	2,352
All	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202
55 no CVP SJIE												
C	961	445	401	417	819	534	673	2,486	1,512	3,262	2,288	1,750
D	1,111	580	433	411	954	514	564	3,312	1,858	2,625	2,840	2,353
BN	1,237	595	465	703	662	820	648	3,939	2,405	2,253	2,515	2,142
AN	1,201	572	537	601	777	597	831	4,575	2,671	2,421	2,459	2,247
W	1,319	836	1,461	1,696	1,093	1,613	891	4,932	3,455	2,632	2,283	2,352
All	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202
65 no CVP SJIE												
C	962	445	401	417	819	534	673	2,486	1,512	3,262	2,288	1,750
D	1,111	580	433	411	954	514	564	3,312	1,858	2,625	2,840	2,353
BN	1,237	595	465	703	662	820	648	3,939	2,405	2,253	2,515	2,142
AN	1,201	572	537	601	777	597	831	4,575	2,671	2,421	2,459	2,247
W	1,320	836	1,461	1,696	1,093	1,613	891	4,932	3,455	2,632	2,283	2,352
All	1,185	638	758	880	897	919	729	3,943	2,489	2,634	2,473	2,202

H1a4.2.39Yolo Bypass below Putah Creek Inflow

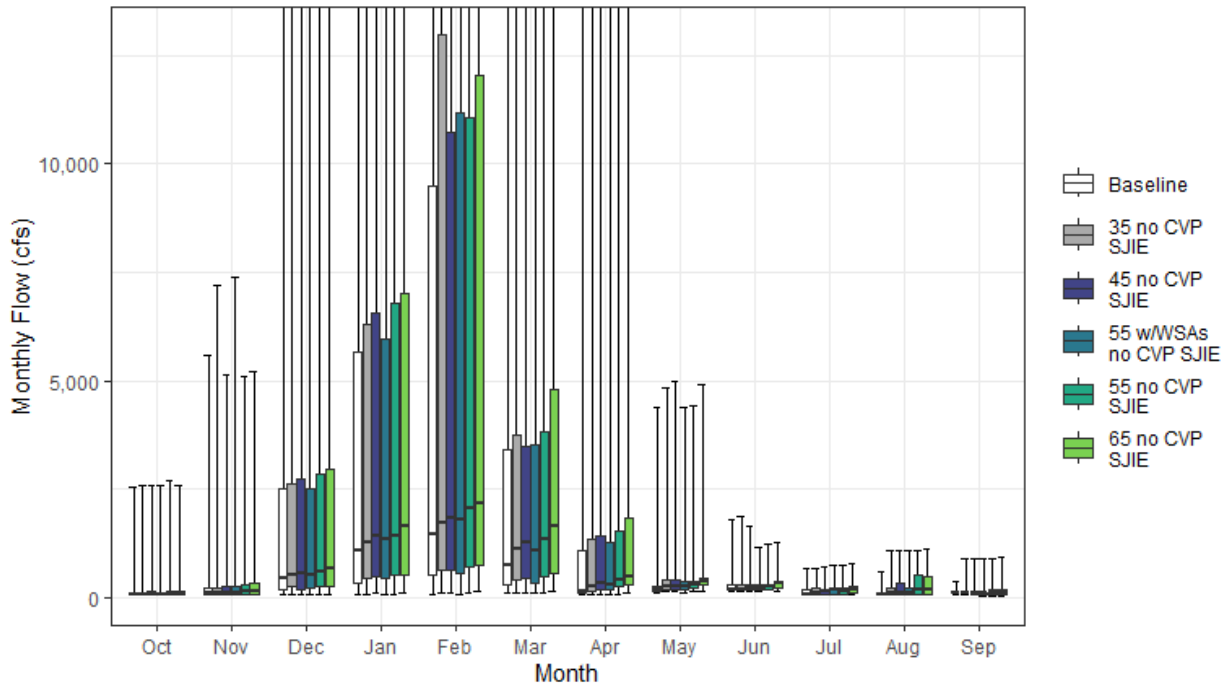

Figure H1a4-39. Yolo Bypass Streamflow below Putah Creek Inflow Monthly Boxplot (cfs)

Table H1a4-77. Cumulative Distribution of Monthly Flow (cfs) — Yolo Bypass below Putah Creek Inflow

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	47	75	76	82	66	89	65	109	132	58	71	64	85
10%	51	78	95	152	132	126	83	147	171	66	76	72	138
25%	54	81	193	338	526	281	93	152	179	68	77	83	216
50%	61	92	447	1,062	1,451	736	127	161	188	69	80	91	532
75%	97	220	2,491	5,655	9,499	3,389	1,084	264	273	162	98	97	2,880
90%	137	450	10,879	29,017	48,867	24,497	4,071	848	314	192	111	107	7,797
100%	2,537	5,581	57,995	109,107	132,376	109,902	48,449	4,380	1,806	656	606	363	12,286
Mean	114	287	3,827	8,831	13,382	7,381	2,318	366	244	118	105	96	2,199
35 no CVP SJIE													
0%	48	66	70	71	90	112	67	137	120	59	60	50	87
10%	52	73	95	212	152	171	107	148	174	67	70	75	178
25%	55	78	259	433	616	385	147	158	179	68	76	84	298
50%	70	91	505	1,250	1,721	1,098	256	233	189	99	85	91	689
75%	112	204	2,606	6,289	12,975	3,727	1,341	409	278	199	216	105	2,877
90%	158	501	11,805	27,839	45,096	23,855	3,872	1,047	317	246	584	194	7,761
100%	2,575	7,189	57,945	106,776	131,882	109,900	46,760	4,819	1,869	664	1,084	872	12,444
Mean	125	319	4,046	9,209	13,355	7,367	2,339	446	260	154	194	118	2,253
45 no CVP SJIE													
0%	48	63	68	95	99	114	70	137	152	59	57	57	89
10%	52	71	91	218	169	193	132	156	177	66	70	74	191
25%	55	80	184	463	619	428	178	179	182	72	76	81	339
50%	76	107	543	1,427	1,812	1,263	344	270	214	156	94	89	705
75%	123	247	2,724	6,547	10,715	3,495	1,405	393	295	193	315	150	2,998
90%	163	566	12,491	29,355	44,904	22,353	3,936	1,122	336	232	568	217	7,711
100%	2,581	5,117	57,721	105,587	127,656	109,903	46,897	4,984	1,641	694	1,083	873	12,383
Mean	130	312	4,089	9,428	13,281	7,313	2,391	477	278	164	225	126	2,270
55 w/WSAs no CVP SJIE													
0%	47	63	69	68	81	113	65	109	127	56	56	34	111
10%	51	70	91	189	168	162	109	147	174	66	66	68	171
25%	54	78	211	431	547	335	160	159	181	79	75	78	279
50%	70	91	508	1,344	1,791	1,080	283	258	217	159	90	88	644
75%	108	240	2,513	5,950	11,180	3,508	1,273	367	299	212	225	100	2,873
90%	161	387	10,292	27,839	44,151	21,510	3,958	1,157	349	242	556	204	7,657
100%	2,566	7,369	56,480	104,761	125,995	109,888	46,291	4,382	1,163	757	1,076	876	12,435
Mean	123	296	3,754	9,095	12,964	7,222	2,415	452	276	169	196	116	2,202
55 no CVP SJIE													
0%	48	62	69	77	107	113	66	135	159	56	57	34	113
10%	52	71	101	229	195	218	175	179	177	66	70	75	215
25%	56	80	240	498	704	482	244	215	188	82	77	80	372
50%	81	134	587	1,403	2,054	1,338	410	306	246	148	174	94	740
75%	127	304	2,832	6,768	11,076	3,832	1,541	379	306	200	510	167	3,154
90%	156	502	9,697	28,637	44,820	21,436	4,789	1,196	329	267	614	239	7,694
100%	2,691	5,104	57,440	105,546	120,143	108,280	46,944	4,425	1,210	756	1,076	876	12,356
Mean	133	291	3,920	9,406	13,211	7,385	2,552	496	285	168	296	137	2,274
65 no CVP SJIE													
0%	46	61	71	98	121	125	100	131	139	53	49	26	116
10%	53	69	97	244	221	235	176	202	174	65	63	67	231
25%	59	77	233	501	750	539	274	276	214	94	77	76	416
50%	107	150	648	1,657	2,163	1,634	489	345	319	161	185	114	991
75%	141	308	2,954	7,006	12,036	4,793	1,822	421	375	264	480	172	3,057
90%	203	706	10,350	31,876	41,605	22,283	7,559	1,078	419	309	606	224	7,773
100%	2,563	5,189	57,353	106,567	116,727	107,594	46,363	4,898	1,272	761	1,127	915	12,507
Mean	145	335	4,145	9,584	13,436	7,589	2,919	530	330	190	292	138	2,355

Table H1a4-78. Water Year Average of Monthly Flows (cfs) — Yolo Bypass below Putah Creek Inflow

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	72	103	699	829	593	333	104	170	170	88	107	85
D	66	175	919	511	1,362	663	208	173	235	120	95	101
BN	110	115	1,305	1,432	4,336	999	308	186	223	135	114	109
AN	105	228	2,602	6,970	15,121	7,058	661	372	212	119	123	98
W	177	602	9,713	24,630	34,050	20,238	6,982	725	316	120	98	90
All	114	287	3,827	8,831	13,382	7,381	2,318	366	244	118	105	96
35 no CVP SJIE												
C	87	86	753	969	780	435	130	176	211	151	244	185
D	83	191	1,085	665	1,833	1,174	275	216	240	160	198	106
BN	119	110	1,625	1,735	5,303	1,466	515	253	223	131	134	99
AN	116	222	2,192	8,587	15,322	7,243	818	461	213	93	214	94
W	183	710	10,248	24,854	32,823	19,394	6,795	875	344	189	196	114
All	125	319	4,046	9,209	13,355	7,367	2,339	446	260	154	194	118
45 no CVP SJIE												
C	103	122	734	1,009	833	475	151	210	218	143	227	186
D	85	220	1,052	707	1,994	1,355	337	284	284	171	318	130
BN	124	114	1,599	1,979	5,378	1,749	612	238	238	138	161	111
AN	115	253	2,628	9,078	15,147	6,590	895	458	199	106	172	97
W	186	629	10,267	25,172	32,456	19,142	6,816	919	361	209	218	111
All	130	312	4,089	9,428	13,281	7,313	2,391	477	278	164	225	126
55 w/WSAs no CVP SJIE												
C	83	112	699	921	659	356	117	190	222	162	272	183
D	81	157	931	653	1,730	1,285	255	230	260	145	190	110
BN	113	116	1,527	1,759	5,098	1,848	513	242	252	148	79	96
AN	116	212	2,343	8,468	15,128	6,453	854	460	225	133	178	94
W	185	643	9,429	24,542	31,881	18,949	7,055	884	351	219	240	107
All	123	296	3,754	9,095	12,964	7,222	2,415	452	276	169	196	116
55 no CVP SJIE												
C	110	135	774	1,060	1,097	520	190	217	223	127	200	169
D	81	198	1,094	768	2,227	1,678	413	325	269	179	454	182
BN	123	159	1,298	2,078	5,175	2,252	792	307	289	166	216	136
AN	119	300	2,141	9,324	15,406	7,064	985	472	272	127	227	95
W	195	522	10,041	24,865	31,937	18,611	7,120	900	331	201	308	106
All	133	291	3,920	9,406	13,211	7,385	2,552	496	285	168	296	137
65 no CVP SJIE												
C	132	172	803	1,227	1,257	754	215	218	204	116	151	138
D	97	200	1,298	815	2,577	2,172	507	386	376	245	424	186
BN	138	149	1,508	2,198	5,595	2,701	1,234	345	348	167	363	146
AN	119	260	2,099	9,825	15,571	7,302	1,149	554	295	123	139	109
W	204	671	10,504	25,052	32,006	18,416	7,905	910	367	229	287	108
All	145	335	4,145	9,584	13,436	7,589	2,919	530	330	190	292	138

H1a4.2.40Yuba River, North Fork above New Bullards Bar Reservoir (SWRCB New Bullards Bar Inflow)

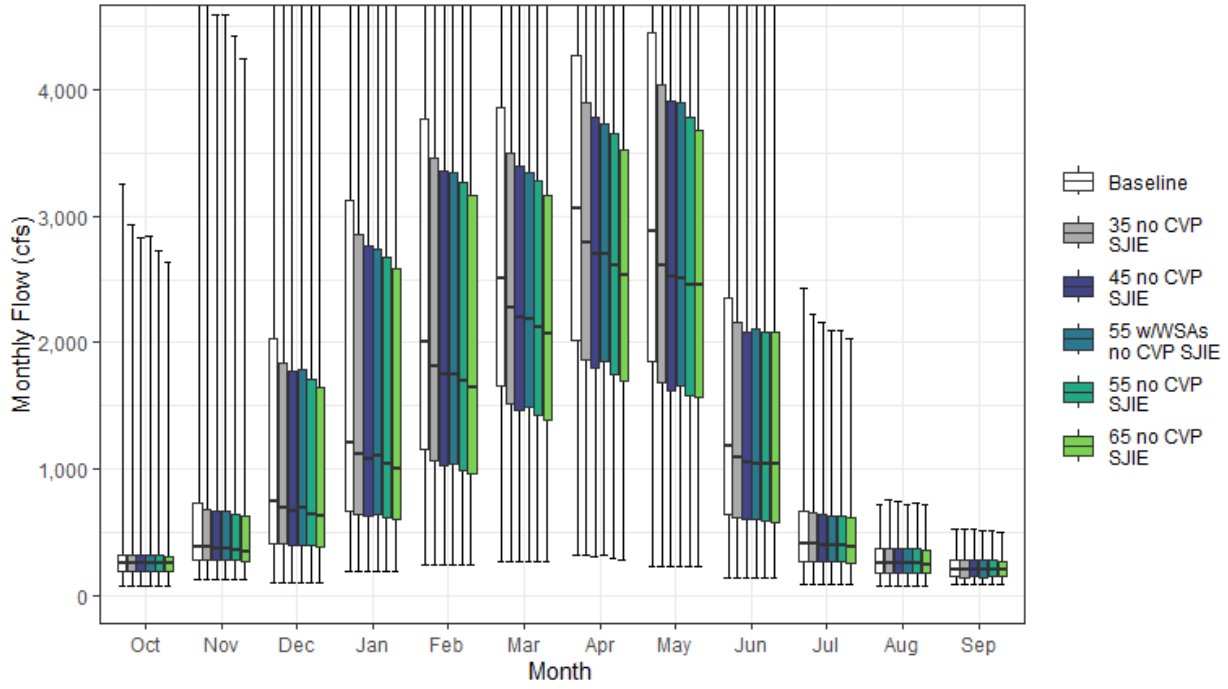

Figure H1a4-40. Yuba River, North Fork Streamflow above New Bullards Bar Reservoir Monthly Boxplot (cfs)

Table H1a4-79. Cumulative Distribution of Monthly Flow (cfs) — Yuba River, North Fork above New Bullards Bar Reservoir (SWRCB New Bullards Bar Inflow)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	73	128	102	194	241	271	317	233	142	83	67	85	141
10%	159	213	280	360	678	1,047	1,353	706	257	157	130	119	422
25%	192	281	406	670	1,152	1,652	2,018	1,847	641	263	180	144	662
50%	260	379	740	1,212	2,004	2,503	3,065	2,876	1,187	404	250	204	1,082
75%	316	725	2,027	3,132	3,772	3,866	4,279	4,453	2,355	665	371	275	1,681
90%	447	1,367	4,692	5,517	5,365	5,527	5,330	5,892	3,596	1,030	465	325	1,937
100%	3,262	5,150	9,325	11,384	13,205	7,964	7,314	7,518	6,164	2,430	712	529	2,970
Mean	306	701	1,659	2,186	2,685	2,894	3,245	3,182	1,669	539	277	218	1,177
35 no CVP SJIE													
0%	73	128	102	194	241	271	317	233	142	83	67	85	141
10%	159	213	279	360	632	967	1,231	670	257	157	130	119	400
25%	192	281	406	646	1,060	1,516	1,861	1,684	620	263	180	144	619
50%	260	376	693	1,123	1,811	2,273	2,791	2,608	1,086	404	250	204	995
75%	315	683	1,837	2,856	3,459	3,506	3,905	4,042	2,156	647	371	275	1,582
90%	445	1,255	4,340	5,342	5,082	5,332	5,016	5,620	3,273	984	465	325	1,814
100%	2,937	4,770	9,325	11,384	13,205	7,538	7,648	7,333	5,981	2,228	759	528	2,845
Mean	301	664	1,552	2,076	2,532	2,695	3,000	2,926	1,542	521	278	218	1,101
45 no CVP SJIE													
0%	73	128	102	194	241	271	309	233	142	83	67	85	139
10%	159	213	280	352	611	934	1,187	645	257	157	130	119	390
25%	192	281	402	629	1,024	1,470	1,804	1,623	603	262	180	144	602
50%	260	366	667	1,081	1,754	2,193	2,701	2,518	1,056	400	250	204	965
75%	314	662	1,772	2,766	3,361	3,391	3,782	3,913	2,081	636	369	275	1,546
90%	436	1,214	4,227	5,217	4,939	5,190	4,876	5,441	3,170	963	461	325	1,812
100%	2,835	4,598	9,325	11,384	13,205	7,618	7,560	7,117	5,690	2,161	745	518	2,802
Mean	298	647	1,541	2,034	2,470	2,634	2,910	2,829	1,492	511	277	217	1,074
55 w/WSAs no CVP SJIE													
0%	73	128	102	194	241	271	317	233	142	83	67	85	141
10%	159	213	280	355	611	942	1,231	670	257	157	130	119	394
25%	192	277	401	639	1,043	1,493	1,845	1,661	603	262	180	144	608
50%	260	372	693	1,100	1,747	2,190	2,699	2,507	1,046	392	250	204	968
75%	313	664	1,783	2,741	3,352	3,347	3,735	3,896	2,104	628	368	275	1,528
90%	429	1,173	4,314	5,092	4,958	5,095	4,782	5,298	3,089	946	454	325	1,823
100%	2,843	4,598	10,043	11,384	13,205	8,210	7,648	6,910	5,426	2,095	712	509	2,777
Mean	297	645	1,565	2,043	2,469	2,639	2,899	2,807	1,479	506	275	217	1,073
55 no CVP SJIE													
0%	73	128	102	194	241	270	294	233	142	83	67	85	137
10%	159	213	278	343	590	901	1,145	635	256	157	130	119	382
25%	192	277	395	613	994	1,429	1,748	1,575	586	261	180	144	586
50%	258	355	642	1,038	1,699	2,128	2,612	2,452	1,036	392	250	204	936
75%	313	642	1,707	2,677	3,263	3,276	3,658	3,783	2,080	624	365	274	1,507
90%	427	1,173	4,114	5,092	4,796	5,040	4,735	5,263	3,074	941	453	324	1,788
100%	2,734	4,426	9,325	11,180	13,205	7,543	7,648	6,901	5,426	2,095	731	509	2,814
Mean	294	629	1,510	2,004	2,409	2,563	2,821	2,746	1,453	501	275	217	1,048
65 no CVP SJIE													
0%	73	128	102	194	241	262	283	225	142	83	67	85	134
10%	159	212	272	332	570	869	1,121	635	251	157	130	119	374
25%	192	270	383	597	964	1,388	1,691	1,563	578	256	178	144	571
50%	252	344	622	995	1,645	2,065	2,534	2,452	1,036	385	246	203	909
75%	309	624	1,642	2,587	3,165	3,160	3,529	3,678	2,080	617	359	270	1,477
90%	418	1,132	4,001	4,966	4,653	4,883	4,594	5,102	3,071	928	445	319	1,769
100%	2,632	4,254	9,325	11,180	12,977	8,135	7,648	6,687	5,252	2,028	717	500	2,751
Mean	290	610	1,476	1,951	2,342	2,498	2,735	2,689	1,440	493	272	215	1,023

Table H1a4-80. Water Year Average of Monthly Flows (cfs) — Yuba River, North Fork above New Bullards Bar Reservoir (SWRCB New Bullards Bar Inflow)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	240	288	516	509	886	1,229	1,288	1,038	472	172	128	114
D	237	517	920	779	1,623	2,172	2,496	2,065	793	283	187	164
BN	257	492	874	1,441	2,152	2,659	3,656	3,110	1,402	426	258	202
AN	295	889	1,311	3,079	3,282	4,050	3,469	3,764	1,567	530	312	249
W	428	1,113	3,445	4,228	4,521	3,999	4,489	4,956	3,161	998	421	310
All	306	701	1,659	2,186	2,685	2,894	3,245	3,182	1,669	539	277	218
35 no CVP SJIE												
C	238	285	493	489	825	1,136	1,183	959	445	172	128	114
D	237	497	869	735	1,506	2,018	2,273	1,877	747	282	187	164
BN	257	475	825	1,332	1,992	2,463	3,365	2,827	1,303	422	258	202
AN	295	841	1,259	2,833	3,085	3,750	3,163	3,426	1,443	519	312	249
W	413	1,036	3,196	4,075	4,314	3,749	4,206	4,608	2,902	946	425	310
All	301	664	1,552	2,076	2,532	2,695	3,000	2,926	1,542	521	278	218
45 no CVP SJIE												
C	236	283	481	477	798	1,100	1,141	922	432	171	128	114
D	237	486	847	714	1,459	1,956	2,197	1,810	725	280	187	164
BN	256	467	803	1,292	1,932	2,389	3,260	2,732	1,264	416	258	202
AN	292	817	1,236	2,766	3,012	3,727	3,064	3,313	1,399	510	311	249
W	406	1,005	3,203	4,009	4,226	3,668	4,094	4,462	2,801	923	421	309
All	298	647	1,541	2,034	2,470	2,634	2,910	2,829	1,492	511	277	217
55 w/WSAs no CVP SJIE												
C	236	283	489	485	819	1,125	1,179	957	445	172	128	114
D	236	486	854	719	1,475	1,981	2,238	1,846	737	281	187	164
BN	255	464	805	1,300	1,944	2,394	3,271	2,752	1,272	417	258	202
AN	292	814	1,303	2,838	3,024	3,807	3,041	3,279	1,386	505	311	248
W	404	1,003	3,247	3,997	4,189	3,615	4,010	4,344	2,741	905	414	307
All	297	645	1,565	2,043	2,469	2,639	2,899	2,807	1,479	506	275	217
55 no CVP SJIE												
C	234	279	469	464	771	1,063	1,099	890	420	169	128	114
D	235	474	824	693	1,413	1,894	2,122	1,753	706	276	187	164
BN	254	457	782	1,253	1,872	2,315	3,156	2,660	1,237	409	257	202
AN	288	792	1,213	2,761	2,938	3,633	2,966	3,224	1,364	499	309	248
W	398	973	3,148	3,959	4,141	3,581	3,980	4,328	2,724	902	415	307
All	294	629	1,510	2,004	2,409	2,563	2,821	2,746	1,453	501	275	217
65 no CVP SJIE												
C	231	275	456	451	744	1,027	1,071	876	413	167	128	114
D	233	460	801	671	1,366	1,831	2,052	1,736	699	271	186	163
BN	251	446	759	1,213	1,813	2,241	3,058	2,623	1,230	401	256	201
AN	284	767	1,218	2,674	2,863	3,539	2,868	3,178	1,357	490	305	246
W	389	941	3,073	3,869	4,036	3,517	3,867	4,203	2,699	887	408	302
All	290	610	1,476	1,951	2,342	2,498	2,735	2,689	1,440	493	272	215

H1a4.2.41 Yuba River, Middle Fork above Confluence with North Fork Yuba (SWRCB M Yuba Inflow)

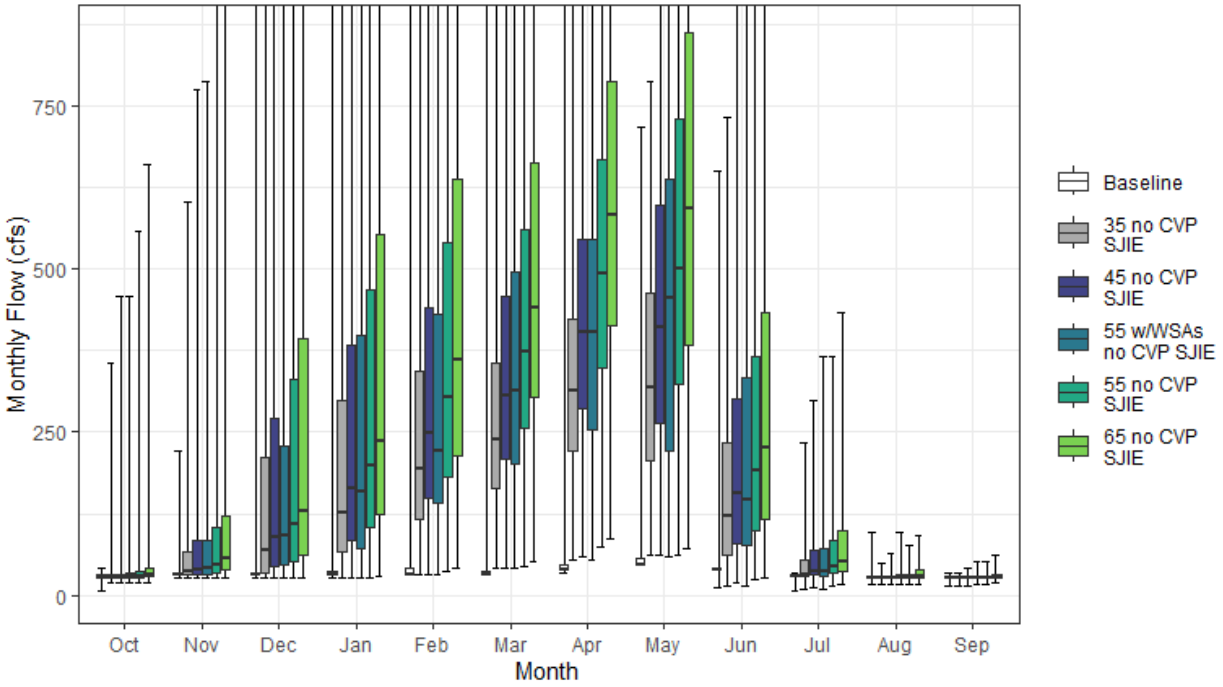

Figure H1a4-41. Yuba River, Middle Fork Streamflow above Confluence with North Fork Yuba Monthly Boxplot (cfs)

Table H1a4-81. Cumulative Distribution of Monthly Flow (cfs) — Yuba River, Middle Fork above Confluence with North Fork Yuba (SWRCB M Yuba Inflow)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	7	27	28	28	31	31	35	46	12	8	16	13	23
10%	27	29	31	31	31	31	40	47	38	27	25	23	23
25%	28	31	31	31	31	31	40	47	39	28	27	26	24
50%	29	31	31	31	31	31	40	48	39	30	28	27	26
75%	31	31	34	36	42	36	47	56	39	31	28	28	58
90%	31	36	103	331	363	244	157	174	44	31	30	29	161
100%	41	222	2,933	3,087	3,806	2,173	2,132	718	650	35	96	33	385
Mean	29	35	144	206	183	153	97	84	48	29	29	27	64
35 no CVP SJIE													
0%	18	27	28	28	31	42	54	60	15	9	16	13	27
10%	27	29	31	32	70	114	149	97	43	27	25	23	51
25%	28	31	35	66	115	163	222	206	62	29	27	26	69
50%	29	36	70	126	194	238	313	319	122	31	27	27	110
75%	31	66	211	298	343	356	424	464	233	53	28	28	175
90%	36	126	413	491	561	521	526	623	361	77	31	29	275
100%	356	602	2,933	3,087	3,806	2,419	2,132	787	732	233	49	33	519
Mean	34	72	250	316	336	351	346	344	173	47	28	27	140
45 no CVP SJIE													
0%	18	27	28	28	31	42	60	63	19	11	16	13	29
10%	27	29	31	40	89	146	191	124	47	28	25	23	62
25%	28	31	43	85	148	209	286	265	80	30	27	26	86
50%	29	40	90	163	249	306	403	410	157	36	27	27	140
75%	31	84	272	383	442	458	545	597	300	69	29	28	222
90%	41	162	531	631	721	670	676	800	465	98	35	30	315
100%	457	774	2,933	3,087	3,806	2,419	2,132	1,012	940	299	63	42	553
Mean	37	89	262	358	396	414	435	442	221	57	29	27	166
55 w/WSAs no CVP SJIE													
0%	18	27	28	28	31	42	53	60	15	9	16	16	27
10%	27	29	31	39	87	133	165	99	43	28	25	23	56
25%	28	32	46	72	142	202	255	220	76	29	27	26	86
50%	29	42	90	158	221	314	403	455	146	37	28	27	125
75%	34	83	230	397	430	495	546	636	333	72	32	28	240
90%	42	188	584	713	754	686	741	838	537	114	39	32	331
100%	457	788	2,216	3,087	3,806	2,173	2,132	1,236	1,149	366	96	51	585
Mean	38	91	237	350	399	408	447	469	240	63	31	28	168
55 no CVP SJIE													
0%	18	27	28	28	37	43	73	63	23	13	16	16	31
10%	27	29	31	48	109	179	234	152	51	29	25	23	73
25%	28	34	53	104	181	256	349	323	98	33	27	26	104
50%	29	47	110	199	305	374	493	501	192	44	28	27	170
75%	36	103	332	468	540	560	666	729	366	84	33	28	265
90%	50	199	649	771	881	819	826	978	568	120	43	33	340
100%	559	946	2,933	3,087	3,806	2,419	2,132	1,237	1,149	366	77	51	548
Mean	41	107	292	386	457	484	526	540	269	68	31	28	194
65 no CVP SJIE													
0%	18	27	28	29	42	51	87	72	28	16	16	18	34
10%	27	31	35	57	129	211	277	179	58	30	25	23	85
25%	28	39	62	123	214	302	412	382	115	38	27	26	122
50%	33	56	129	235	360	442	582	592	227	52	30	28	201
75%	41	122	392	553	638	661	788	861	433	99	39	33	312
90%	59	235	767	911	1,041	968	977	1,156	671	142	51	39	387
100%	660	1,119	2,933	3,087	3,806	2,419	2,132	1,461	1,358	432	91	60	609
Mean	46	125	326	437	522	548	618	638	317	80	34	30	224

Table H1a4-82. Water Year Average of Monthly Flows (cfs) — Yuba River, Middle Fork above Confluence with North Fork Yuba (SWRCB M Yuba Inflow)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	29	31	31	32	37	37	48	57	41	28	24	23
D	30	32	32	32	47	65	42	49	40	29	27	27
BN	28	31	35	32	49	63	77	47	39	29	27	27
AN	29	48	174	165	147	302	40	66	39	29	27	28
W	28	37	342	554	461	275	201	153	69	30	34	28
All	29	35	144	206	183	153	97	84	48	29	29	27
35 no CVP SJIE												
C	31	34	55	52	98	130	152	135	69	28	24	23
D	30	52	83	76	163	219	265	237	86	30	27	27
BN	28	47	84	141	209	259	367	331	138	33	27	27
AN	30	96	227	411	344	601	346	404	163	40	27	28
W	44	114	591	705	668	525	494	518	319	82	30	28
All	34	72	250	316	336	351	346	344	173	47	28	27
45 no CVP SJIE												
C	33	36	66	65	125	166	195	173	82	29	24	23
D	30	63	106	97	210	281	341	305	108	32	27	27
BN	29	56	105	180	268	334	472	426	177	40	27	27
AN	33	121	249	478	418	625	444	519	210	49	27	28
W	51	145	584	771	749	609	604	665	410	105	34	29
All	37	89	262	358	396	414	435	442	221	57	29	27
55 w/WSAs no CVP SJIE												
C	33	36	59	56	104	141	157	138	69	28	24	23
D	31	63	98	92	194	256	300	268	96	31	27	27
BN	30	59	104	173	256	328	462	405	169	38	27	27
AN	33	123	183	406	405	545	468	562	228	54	28	29
W	52	147	540	785	793	659	691	797	487	125	42	31
All	38	91	237	350	399	408	447	469	240	63	31	28
55 no CVP SJIE												
C	35	40	79	77	152	203	238	210	95	31	24	23
D	31	75	129	118	257	343	417	373	131	36	27	27
BN	31	65	127	220	328	408	577	521	217	47	27	27
AN	36	145	272	483	492	719	543	634	256	60	30	29
W	59	177	639	814	834	693	721	812	501	128	40	31
All	41	107	292	386	457	484	526	540	269	68	31	28
65 no CVP SJIE												
C	38	44	92	91	180	240	281	248	111	33	24	23
D	34	89	152	140	303	406	493	440	154	41	28	28
BN	34	76	150	260	388	482	682	615	256	56	29	27
AN	41	170	267	571	566	813	642	749	303	71	33	31
W	68	209	714	898	932	753	839	960	592	151	47	36
All	46	125	326	437	522	548	618	638	317	80	34	30

H1a4.2.42 Yuba River, South Fork above Confluence with Yuba River (SWRCB S Yuba Inflow)

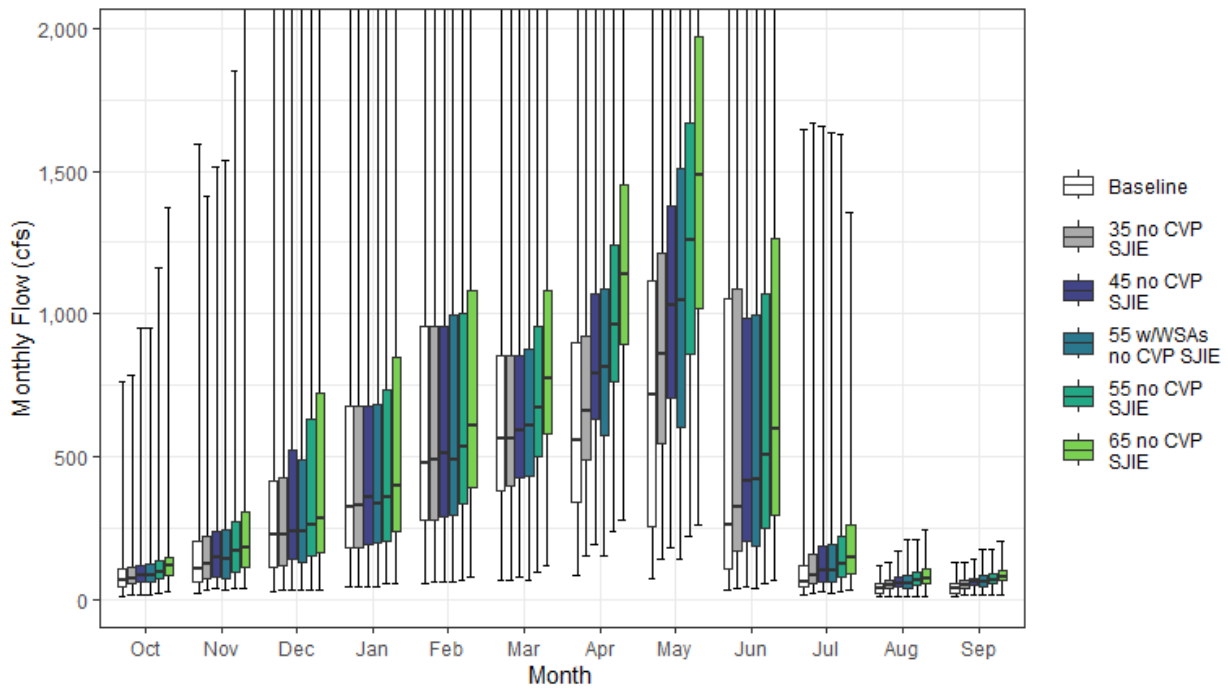

Figure H1a4-42. Yuba River, South Fork Streamflow above Confluence with Yuba River Monthly Boxplot (cfs)

Table H1a4-83. Cumulative Distribution of Monthly Flow (cfs) — Yuba River, South Fork above Confluence with Yuba River (SWRCB S Yuba Inflow)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	10	20	26	42	53	68	83	70	30	18	9	9	35
10%	23	45	62	98	144	232	208	118	59	30	16	13	91
25%	44	61	111	183	277	382	342	258	109	42	22	18	142
50%	67	109	225	323	478	563	555	717	262	63	40	38	244
75%	108	204	416	677	958	853	902	1,115	1,051	119	58	56	450
90%	143	342	1,128	1,383	1,445	1,581	1,161	1,973	1,929	190	79	74	597
100%	762	1,595	2,691	3,971	5,772	2,450	3,153	3,682	3,835	1,644	117	128	1,241
Mean	82	183	414	573	700	713	681	871	732	149	43	41	312
35 no CVP SJIE													
0%	16	34	34	42	61	68	150	139	41	22	9	14	52
10%	35	55	72	98	157	252	408	284	87	42	26	30	120
25%	53	70	117	183	277	396	491	547	169	54	37	38	175
50%	73	125	225	330	489	563	662	859	323	85	48	51	272
75%	111	222	428	677	958	853	923	1,211	1,087	160	68	64	455
90%	159	360	1,056	1,383	1,445	1,581	1,215	1,864	1,965	228	83	79	600
100%	785	1,412	2,706	3,911	5,734	2,492	3,209	3,642	3,655	1,672	131	128	1,254
Mean	94	192	422	574	702	724	772	1,005	749	168	54	53	331
45 no CVP SJIE													
0%	18	37	34	46	61	80	192	179	46	25	9	14	62
10%	41	57	80	104	173	278	466	365	111	48	31	37	141
25%	60	77	139	195	292	428	629	704	205	63	42	47	203
50%	84	144	238	357	514	594	789	1,029	415	102	56	59	300
75%	121	238	522	677	959	856	1,070	1,376	985	184	78	74	473
90%	162	388	1,129	1,380	1,445	1,581	1,292	1,946	1,923	282	102	92	606
100%	951	1,516	2,652	3,777	5,641	2,477	3,202	3,701	3,353	1,658	169	142	1,268
Mean	106	216	438	581	712	752	890	1,138	743	187	62	62	354
55 w/WSAs no CVP SJIE													
0%	16	34	34	46	61	68	150	139	41	22	9	14	52
10%	40	55	74	100	175	267	420	305	90	46	27	33	120
25%	59	73	130	198	297	430	576	605	188	59	41	42	198
50%	84	142	237	336	489	606	816	1,047	420	102	57	62	301
75%	124	246	487	685	995	877	1,089	1,507	996	194	82	81	514
90%	162	404	1,129	1,380	1,457	1,581	1,424	2,187	1,519	337	107	99	624
100%	951	1,540	2,656	3,390	5,711	2,432	3,195	3,710	3,264	1,637	206	173	1,264
Mean	108	221	448	580	716	757	900	1,160	705	193	65	64	356
55 no CVP SJIE													
0%	22	37	34	56	67	98	235	219	57	29	9	14	73
10%	49	61	94	126	187	339	569	447	131	56	38	44	170
25%	70	93	150	206	334	499	761	860	250	76	48	56	235
50%	98	171	262	357	533	669	963	1,256	507	123	64	67	349
75%	134	272	633	732	1,001	954	1,241	1,667	1,068	220	92	88	524
90%	166	474	1,230	1,380	1,457	1,631	1,536	2,252	1,684	345	115	108	629
100%	1,162	1,852	2,787	3,407	5,338	2,428	3,184	3,561	3,163	1,628	206	173	1,273
Mean	122	253	481	605	739	817	1,033	1,329	754	206	72	73	390
65 no CVP SJIE													
0%	26	40	34	56	79	115	278	259	67	34	9	14	85
10%	58	72	111	142	216	401	673	528	154	60	45	51	201
25%	81	109	163	239	389	579	895	1,016	296	90	56	65	272
50%	115	183	281	397	610	776	1,138	1,485	600	146	74	79	403
75%	147	306	720	850	1,081	1,081	1,454	1,971	1,262	260	108	103	603
90%	191	560	1,453	1,429	1,523	1,693	1,728	2,541	1,867	408	132	126	702
100%	1,373	2,189	3,294	3,217	5,089	2,632	3,215	3,313	3,211	1,357	244	205	1,269
Mean	141	294	550	659	801	914	1,202	1,535	859	221	84	85	442

Table H1a4-84. Water Year Average of Monthly Flows (cfs) — Yuba River, South Fork above Confluence with Yuba River (SWRCB S Yuba Inflow)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	70	63	116	139	228	265	225	177	89	45	35	32
D	74	170	240	196	370	491	407	394	196	64	41	35
BN	80	129	230	351	528	585	707	634	466	74	45	36
AN	70	245	442	783	852	972	712	1,127	652	81	35	46
W	101	267	806	1,139	1,243	1,093	1,096	1,639	1,669	342	50	51
All	82	183	414	573	700	713	681	871	732	149	43	41
35 no CVP SJIE												
C	79	74	121	141	237	294	373	353	152	61	40	40
D	81	173	243	197	376	499	568	621	247	72	45	46
BN	85	139	234	354	530	595	790	822	484	94	59	53
AN	86	246	459	789	862	975	771	1,198	655	107	48	54
W	120	281	818	1,134	1,236	1,098	1,124	1,674	1,642	366	67	65
All	94	192	422	574	702	724	772	1,005	749	168	54	53
45 no CVP SJIE												
C	91	85	138	148	263	350	472	453	191	70	45	46
D	88	187	255	203	389	527	718	778	288	81	50	55
BN	92	157	240	370	538	629	941	1,024	508	111	67	63
AN	99	272	469	802	870	1,002	910	1,322	671	131	57	62
W	141	324	846	1,133	1,235	1,110	1,200	1,765	1,550	398	79	75
All	106	216	438	581	712	752	890	1,138	743	187	62	62
55 w/WSAs no CVP SJIE												
C	88	80	125	144	238	308	385	358	152	61	41	40
D	88	189	258	204	393	531	641	689	270	76	47	51
BN	94	162	235	374	548	650	969	976	502	109	64	61
AN	99	277	469	806	877	1,000	960	1,395	693	145	61	68
W	146	334	884	1,129	1,249	1,132	1,295	1,956	1,454	421	94	87
All	108	221	448	580	716	757	900	1,160	705	193	65	64
55 no CVP SJIE												
C	107	100	163	165	301	415	577	554	232	81	51	52
D	98	213	286	221	428	608	877	951	352	93	56	65
BN	101	178	258	404	562	713	1,112	1,252	611	134	76	74
AN	115	326	471	873	888	1,092	1,083	1,542	700	157	68	74
W	165	383	938	1,143	1,252	1,139	1,321	1,984	1,439	420	95	89
All	122	253	481	605	739	817	1,033	1,329	754	206	72	73
65 no CVP SJIE												
C	123	117	190	188	347	490	682	655	273	94	61	60
D	110	242	325	250	495	710	1,037	1,124	416	110	64	77
BN	114	204	285	463	617	835	1,313	1,480	722	157	88	85
AN	132	380	530	948	931	1,251	1,278	1,822	828	184	78	87
W	192	448	1,084	1,219	1,332	1,206	1,499	2,226	1,595	427	112	104
All	141	294	550	659	801	914	1,202	1,535	859	221	84	85

H1a4.2.43Yuba River below Englebright Reservoir (SWRCB Englebright)

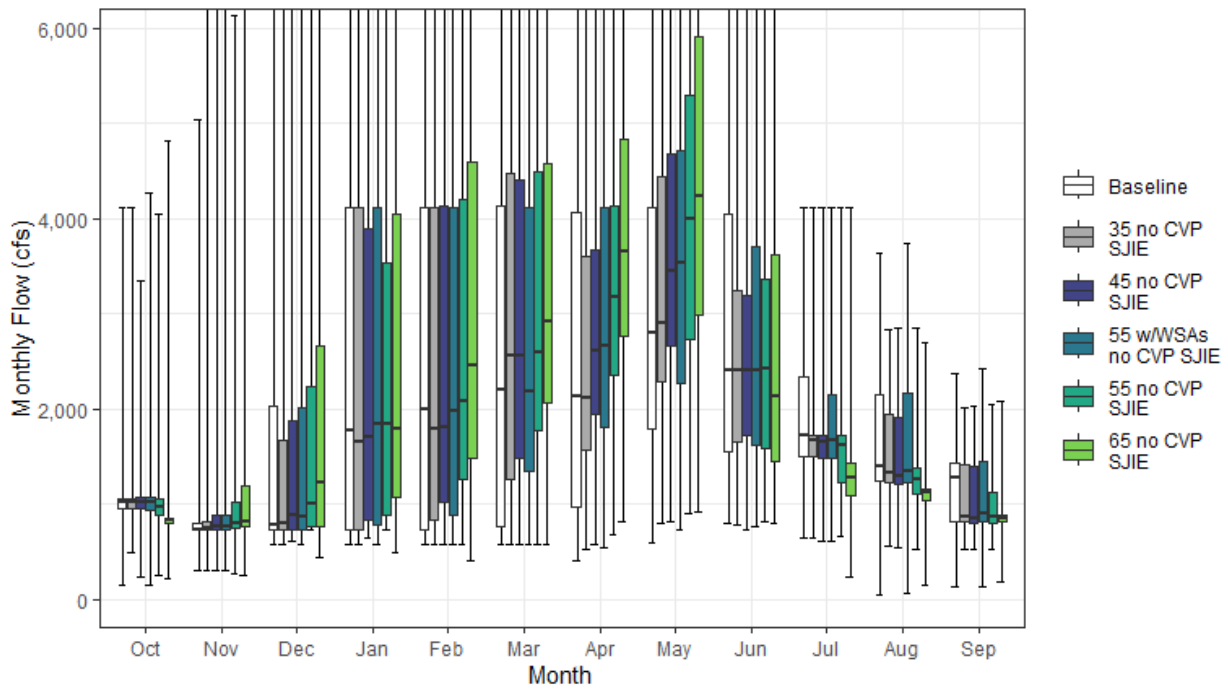

Figure H1a4-43. Yuba River Streamflow below Englebright Reservoir Monthly Boxplot (cfs)

Table H1a4-85. Cumulative Distribution of Monthly Flow (cfs) — Yuba River below Englebright Reservoir (SWRCB Englebright)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	156	295	580	580	580	580	412	593	804	640	41	133	424
10%	903	730	731	731	731	731	865	1,660	1,313	1,404	1,167	742	744
25%	954	731	731	731	731	769	976	1,787	1,554	1,501	1,244	818	904
50%	1,019	731	780	1,778	1,988	2,204	2,137	2,807	2,411	1,724	1,405	1,270	1,395
75%	1,062	792	2,038	4,121	4,121	4,129	4,068	4,120	4,045	2,337	2,151	1,435	2,296
90%	1,100	908	4,121	5,566	5,654	6,618	4,999	6,504	5,366	3,269	2,254	1,552	2,966
100%	4,120	5,034	15,018	20,108	22,897	13,509	10,513	9,628	9,922	4,120	3,630	2,378	4,502
Mean	1,026	934	1,998	2,976	3,027	3,072	2,624	3,389	2,979	2,067	1,705	1,161	1,626
35 no CVP SJIE													
0%	489	295	581	581	580	580	519	804	777	640	553	531	502
10%	903	731	731	731	731	732	1,214	1,642	1,313	1,398	1,131	737	789
25%	954	731	731	734	836	1,261	1,565	2,294	1,650	1,501	1,228	813	973
50%	1,021	747	795	1,653	1,790	2,559	2,113	2,908	2,408	1,665	1,323	863	1,357
75%	1,063	823	1,673	4,121	4,121	4,483	3,609	4,444	3,242	1,721	1,946	1,420	2,276
90%	1,100	1,145	4,553	6,706	7,444	6,723	5,091	6,987	5,393	1,779	2,209	1,561	2,967
100%	4,120	6,607	15,965	20,048	22,860	13,509	10,812	9,921	9,477	4,120	2,827	2,009	4,443
Mean	1,030	986	2,079	3,019	3,145	3,329	2,782	3,658	2,930	1,706	1,529	1,086	1,645
45 no CVP SJIE													
0%	231	295	603	638	581	581	571	815	722	609	536	530	510
10%	903	731	731	731	731	908	1,507	1,777	1,313	1,350	1,095	736	822
25%	954	731	731	830	1,019	1,476	1,950	2,662	1,721	1,485	1,213	805	1,016
50%	1,021	757	877	1,707	1,804	2,563	2,618	3,445	2,409	1,661	1,299	855	1,386
75%	1,064	881	1,884	3,896	4,128	4,403	3,667	4,685	3,191	1,726	1,909	1,401	2,302
90%	1,105	1,414	4,501	6,400	7,224	6,604	5,091	6,873	5,136	1,814	2,230	1,554	2,922
100%	3,339	6,712	15,015	19,914	22,767	13,590	10,725	9,925	9,105	4,120	2,852	2,032	4,415
Mean	1,017	1,032	2,061	2,996	3,201	3,367	3,049	3,865	2,862	1,683	1,493	1,053	1,668
55 w/WSAs no CVP SJIE													
0%	156	295	580	581	580	581	538	725	771	609	65	133	420
10%	903	730	730	731	731	855	1,241	1,560	1,206	1,341	1,115	755	785
25%	939	731	731	780	876	1,343	1,800	2,275	1,628	1,477	1,219	817	999
50%	1,019	757	870	1,843	1,975	2,176	2,672	3,533	2,408	1,675	1,338	896	1,392
75%	1,065	881	2,017	4,121	4,121	4,122	4,121	4,709	3,700	2,146	2,173	1,457	2,351
90%	1,107	1,520	4,121	5,359	5,629	6,458	4,999	6,701	4,859	3,357	2,291	1,586	2,975
100%	4,265	6,575	13,250	19,527	22,836	13,509	10,789	10,103	8,653	4,121	3,739	2,420	4,542
Mean	1,028	1,071	1,963	2,923	3,042	3,223	3,054	3,864	2,843	1,952	1,631	1,137	1,672
55 no CVP SJIE													
0%	245	276	728	730	581	581	681	904	809	666	524	530	530
10%	799	731	731	731	793	1,118	1,792	1,566	1,036	1,037	988	741	828
25%	879	744	758	876	1,253	1,767	2,355	2,735	1,588	1,224	1,103	806	1,078
50%	973	798	1,010	1,847	2,078	2,596	3,169	3,998	2,417	1,623	1,259	870	1,466
75%	1,061	1,018	2,238	3,527	4,205	4,488	4,142	5,295	3,370	1,724	1,378	1,127	2,284
90%	1,107	1,716	4,394	6,736	6,683	6,538	5,813	7,419	4,854	1,885	2,100	1,540	2,913
100%	4,055	6,127	14,275	19,545	22,464	13,348	10,606	10,103	8,663	4,120	2,858	2,055	4,300
Mean	989	1,105	2,115	2,938	3,260	3,493	3,426	4,206	2,829	1,595	1,368	1,005	1,707
65 no CVP SJIE													
0%	225	260	434	486	407	581	811	924	803	230	156	183	540
10%	713	731	731	731	898	1,318	2,069	1,663	1,015	968	907	731	868
25%	802	772	762	1,080	1,484	2,067	2,769	2,982	1,450	1,088	1,039	822	1,117
50%	831	813	1,225	1,792	2,456	2,928	3,663	4,229	2,131	1,276	1,125	850	1,519
75%	852	1,190	2,663	4,050	4,591	4,578	4,827	5,912	3,628	1,427	1,155	887	2,341
90%	963	2,039	5,033	6,631	6,579	6,699	5,716	7,412	5,146	1,818	2,149	1,529	2,928
100%	4,820	7,053	15,213	19,150	19,650	12,404	10,640	10,615	9,095	4,122	2,689	2,078	4,211
Mean	864	1,225	2,312	3,079	3,433	3,667	3,866	4,485	2,793	1,365	1,245	963	1,765

Table H1a4-86. Water Year Average of Monthly Flows (cfs) — Yuba River below Englebright Reservoir (SWRCB Englebright)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	996	764	766	802	753	754	789	1,407	1,237	1,272	996	723
D	1,007	824	953	1,212	1,146	1,475	1,382	2,101	1,823	1,601	1,355	956
BN	1,010	784	1,074	1,934	2,111	2,030	2,566	3,008	2,608	1,877	1,689	1,150
AN	942	1,065	1,963	3,276	3,458	4,514	2,996	3,738	2,990	2,058	1,794	1,317
W	1,101	1,147	4,021	5,968	6,027	5,563	4,401	5,492	4,988	2,957	2,313	1,489
All	1,026	934	1,998	2,976	3,027	3,072	2,624	3,389	2,979	2,067	1,705	1,161
35 no CVP SJIE												
C	995	766	807	786	846	936	1,161	1,584	1,305	1,269	1,055	757
D	1,013	844	1,001	1,134	1,166	1,782	1,859	2,424	1,863	1,533	1,269	851
BN	1,004	787	1,096	1,846	2,063	2,590	2,697	3,335	2,620	1,688	1,434	1,071
AN	954	1,223	1,886	3,653	3,470	4,831	2,724	4,002	2,817	1,688	1,568	1,151
W	1,109	1,240	4,249	6,083	6,376	5,608	4,402	5,736	4,822	2,084	2,018	1,416
All	1,030	986	2,079	3,019	3,145	3,329	2,782	3,658	2,930	1,706	1,529	1,086
45 no CVP SJIE												
C	989	767	849	830	931	1,153	1,422	1,656	1,265	1,146	978	750
D	992	892	1,038	1,118	1,358	1,881	2,261	2,763	1,863	1,507	1,230	836
BN	996	808	1,107	1,832	2,116	2,592	3,060	3,571	2,559	1,679	1,372	957
AN	929	1,260	1,918	3,666	3,489	4,649	2,928	4,233	2,762	1,688	1,509	1,126
W	1,100	1,327	4,119	5,999	6,335	5,615	4,536	5,890	4,679	2,098	2,030	1,405
All	1,017	1,032	2,061	2,996	3,201	3,367	3,049	3,865	2,862	1,683	1,493	1,053
55 w/WSAs no CVP SJIE												
C	967	766	802	824	838	983	1,176	1,476	1,221	1,171	957	723
D	999	885	1,027	1,150	1,295	1,760	2,052	2,494	1,762	1,514	1,259	853
BN	1,004	827	1,103	1,940	2,068	2,310	2,987	3,486	2,507	1,719	1,587	1,154
AN	923	1,265	1,890	3,411	3,440	4,360	3,363	4,424	2,894	1,911	1,680	1,309
W	1,139	1,446	3,844	5,770	5,956	5,614	4,708	6,156	4,694	2,853	2,272	1,486
All	1,028	1,071	1,963	2,923	3,042	3,223	3,054	3,864	2,843	1,952	1,631	1,137
55 no CVP SJIE												
C	901	792	896	898	1,082	1,389	1,695	1,770	1,207	982	901	757
D	942	956	1,173	1,091	1,616	2,203	2,684	2,946	1,737	1,309	1,165	860
BN	963	850	1,133	1,870	2,132	2,668	3,576	4,049	2,628	1,585	1,273	858
AN	887	1,254	2,063	3,659	3,697	4,737	3,433	4,847	2,849	1,640	1,264	848
W	1,127	1,482	4,098	5,767	6,166	5,585	4,794	6,273	4,615	2,119	1,868	1,400
All	989	1,105	2,115	2,938	3,260	3,493	3,426	4,206	2,829	1,595	1,368	1,005
65 no CVP SJIE												
C	793	749	934	941	1,230	1,635	1,991	2,009	1,246	855	729	565
D	802	1,035	1,351	1,161	1,910	2,618	3,126	3,216	1,679	1,111	1,047	839
BN	791	923	1,292	2,044	2,458	2,993	4,179	4,331	2,448	1,223	1,097	843
AN	798	1,428	2,113	3,982	3,776	5,057	4,011	5,279	2,773	1,368	1,160	876
W	1,020	1,727	4,479	5,921	6,204	5,389	5,153	6,515	4,662	1,911	1,793	1,376
All	864	1,225	2,312	3,079	3,433	3,667	3,866	4,485	2,793	1,365	1,245	963

H1a4.2.44 Yuba River above Confluence with Feather River (SWRCB Yuba River)

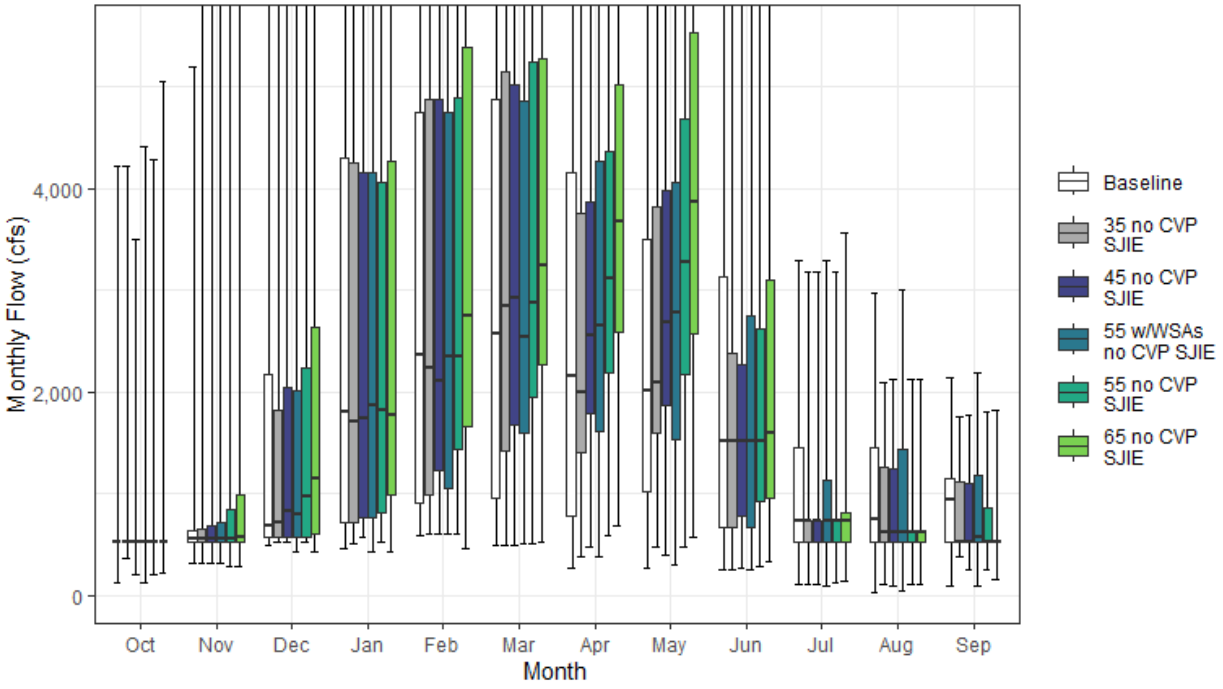

Figure H1a4-44. Yuba River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a4-87. Cumulative Distribution of Monthly Flow (cfs) — Yuba River above Confluence with Feather River (SWRCB Yuba River)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	124	312	484	452	587	495	269	270	250	99	27	99	247
10%	517	523	524	618	781	799	715	909	519	525	524	524	465
25%	520	524	569	718	901	953	772	1,018	673	528	528	528	638
50%	523	557	688	1,801	2,358	2,581	2,163	2,006	1,513	727	740	946	1,192
75%	524	636	2,166	4,309	4,753	4,878	4,166	3,501	3,140	1,454	1,459	1,147	2,176
90%	524	808	4,540	6,366	6,824	7,738	5,518	5,884	4,469	2,295	1,628	1,280	2,882
100%	4,222	5,193	15,465	22,405	25,564	15,576	11,592	9,150	9,089	3,294	2,976	2,144	4,556
Mean	547	779	2,001	3,180	3,535	3,527	2,677	2,662	2,108	1,127	1,035	874	1,447
35 no CVP SJIE													
0%	371	313	523	502	601	495	374	469	250	99	99	376	292
10%	517	523	524	623	779	829	1,048	889	504	505	505	519	522
25%	520	524	570	710	989	1,426	1,398	1,601	673	528	528	528	712
50%	524	562	713	1,714	2,231	2,840	2,003	2,087	1,513	727	627	528	1,152
75%	524	656	1,816	4,247	4,879	5,152	3,751	3,830	2,373	727	1,252	1,112	2,166
90%	524	1,071	4,899	7,433	8,608	7,649	5,534	6,283	4,496	816	1,550	1,285	2,900
100%	4,222	6,744	16,399	22,345	25,527	15,576	11,869	9,440	8,649	3,184	2,096	1,754	4,497
Mean	552	828	2,081	3,223	3,650	3,779	2,836	2,936	2,063	773	855	796	1,465
45 no CVP SJIE													
0%	197	314	522	564	601	496	478	395	270	101	99	248	305
10%	517	523	524	640	778	983	1,344	953	501	505	505	519	570
25%	520	524	572	765	1,224	1,683	1,796	1,871	776	528	528	527	745
50%	524	557	828	1,743	2,106	2,922	2,549	2,683	1,513	727	627	528	1,172
75%	524	687	2,045	4,153	4,879	5,018	3,862	3,980	2,273	727	1,245	1,099	2,192
90%	524	1,350	4,721	7,413	8,555	7,412	5,571	6,344	4,248	874	1,558	1,278	2,851
100%	3,503	6,826	15,462	22,212	25,434	15,673	11,770	9,443	8,281	3,184	2,120	1,777	4,466
Mean	548	871	2,063	3,202	3,706	3,818	3,105	3,157	2,010	764	826	760	1,493
55 w/WSAs no CVP SJIE													
0%	124	312	424	426	601	504	373	307	250	99	51	99	250
10%	425	523	524	623	771	945	1,128	890	425	428	428	428	529
25%	520	524	570	771	1,054	1,601	1,619	1,539	674	528	527	527	749
50%	523	557	793	1,875	2,353	2,545	2,653	2,784	1,513	727	627	572	1,189
75%	524	718	2,012	4,166	4,753	4,870	4,263	4,069	2,750	1,140	1,432	1,175	2,234
90%	524	1,444	4,541	6,166	6,834	7,412	5,528	5,981	3,968	2,360	1,648	1,328	2,897
100%	4,418	6,720	13,721	21,829	25,504	15,576	11,815	9,347	7,835	3,294	3,008	2,186	4,591
Mean	557	910	1,966	3,127	3,547	3,675	3,112	3,158	1,986	1,027	964	843	1,496
55 no CVP SJIE													
0%	211	290	523	526	601	510	585	482	277	124	99	246	324
10%	425	523	524	610	863	1,184	1,642	1,086	426	428	428	428	629
25%	521	524	564	816	1,436	1,951	2,195	2,177	921	528	528	527	835
50%	523	555	969	1,820	2,345	2,874	3,112	3,279	1,513	727	627	528	1,241
75%	524	839	2,230	4,062	4,897	5,247	4,366	4,684	2,622	728	628	855	2,197
90%	524	1,651	4,789	7,430	7,893	7,507	6,172	6,632	3,944	986	1,376	1,252	2,837
100%	4,283	6,249	14,695	21,846	25,135	15,433	11,634	9,347	7,845	3,184	2,127	1,800	4,360
Mean	563	936	2,112	3,140	3,765	3,945	3,496	3,596	2,064	763	727	696	1,552
65 no CVP SJIE													
0%	219	276	424	426	462	527	690	569	327	146	99	159	344
10%	419	523	524	610	978	1,399	1,940	1,283	518	426	426	425	682
25%	521	524	601	988	1,657	2,277	2,595	2,572	951	528	528	527	932
50%	523	564	1,145	1,777	2,746	3,246	3,678	3,874	1,596	726	627	528	1,417
75%	524	991	2,636	4,264	5,386	5,277	5,025	5,534	3,100	806	628	529	2,331
90%	579	1,951	5,585	7,299	7,631	7,908	6,335	7,049	4,627	1,256	1,594	1,203	2,986
100%	5,060	7,122	15,624	21,503	22,347	14,455	11,671	10,272	8,570	3,560	2,126	1,822	4,350
Mean	578	1,040	2,306	3,275	3,937	4,117	3,976	4,131	2,280	803	741	660	1,675

Table H1a4-88. Water Year Average of Monthly Flows (cfs) — Yuba River above Confluence with Feather River (SWRCB Yuba River)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	506	535	628	724	876	841	620	705	459	402	398	453
D	506	644	886	1,145	1,336	1,718	1,267	1,336	918	650	666	660
BN	510	608	973	1,953	2,507	2,390	2,580	2,268	1,721	904	998	853
AN	489	951	1,911	3,585	4,083	5,145	3,101	3,017	2,116	1,095	1,139	1,031
W	646	1,047	4,236	6,596	6,996	6,359	4,700	4,785	4,102	2,018	1,626	1,207
All	547	779	2,001	3,180	3,535	3,527	2,677	2,662	2,108	1,127	1,035	874
35 no CVP SJIE												
C	509	531	666	714	967	1,019	997	931	548	427	427	463
D	508	661	934	1,068	1,353	2,019	1,742	1,656	958	582	580	555
BN	510	607	994	1,861	2,459	2,939	2,713	2,588	1,733	716	744	774
AN	506	1,101	1,833	3,962	4,094	5,458	2,824	3,278	1,944	727	914	866
W	653	1,139	4,463	6,709	7,341	6,403	4,703	5,026	3,938	1,150	1,333	1,134
All	552	828	2,081	3,223	3,650	3,779	2,836	2,936	2,063	773	855	796
45 no CVP SJIE												
C	514	533	708	759	1,051	1,234	1,273	1,106	590	395	392	446
D	504	700	970	1,055	1,545	2,120	2,138	1,988	959	555	541	534
BN	512	624	1,006	1,849	2,512	2,943	3,077	2,825	1,672	708	683	661
AN	491	1,139	1,872	3,976	4,113	5,279	3,035	3,508	1,894	727	856	842
W	645	1,226	4,334	6,626	7,300	6,410	4,838	5,179	3,797	1,165	1,344	1,122
All	548	871	2,063	3,202	3,706	3,818	3,105	3,157	2,010	764	826	760
55 w/WSAs no CVP SJIE												
C	505	524	660	746	959	1,072	1,027	886	504	376	373	422
D	501	699	960	1,085	1,482	1,999	1,940	1,749	870	572	571	549
BN	512	646	1,002	1,956	2,462	2,663	3,001	2,740	1,622	747	897	856
AN	484	1,145	1,838	3,719	4,065	4,991	3,469	3,701	2,020	949	1,026	1,023
W	683	1,345	4,063	6,398	6,922	6,408	5,010	5,450	3,810	1,915	1,585	1,204
All	557	910	1,966	3,127	3,547	3,675	3,112	3,158	1,986	1,027	964	843
55 no CVP SJIE												
C	522	541	750	807	1,202	1,478	1,556	1,348	661	372	363	435
D	499	751	1,097	1,030	1,803	2,442	2,608	2,409	1,044	540	528	519
BN	510	668	1,026	1,879	2,529	3,019	3,608	3,387	1,822	698	606	546
AN	498	1,144	1,995	3,969	4,321	5,366	3,541	4,186	2,012	741	627	553
W	690	1,368	4,316	6,400	7,130	6,382	5,092	5,561	3,734	1,185	1,183	1,118
All	563	936	2,112	3,140	3,765	3,945	3,496	3,596	2,064	763	727	696
65 no CVP SJIE												
C	523	535	801	848	1,353	1,722	1,839	1,592	755	353	328	340
D	500	829	1,268	1,086	2,096	2,848	3,082	2,844	1,176	550	532	524
BN	496	723	1,181	2,036	2,851	3,347	4,259	3,988	1,940	660	580	527
AN	533	1,290	2,068	4,270	4,400	5,687	4,165	4,947	2,250	781	627	555
W	735	1,566	4,678	6,561	7,166	6,186	5,516	6,193	4,130	1,327	1,261	1,055
All	578	1,040	2,306	3,275	3,937	4,117	3,976	4,131	2,280	803	741	660

H1a4.2.45 Total Delta Inflow

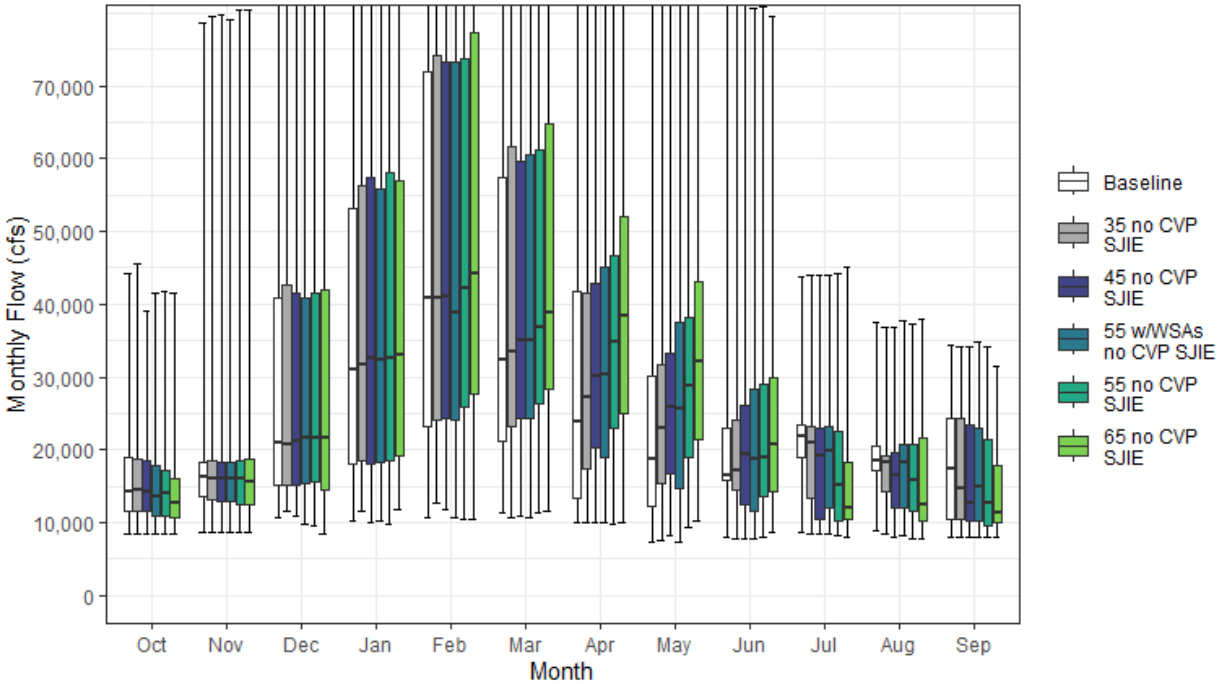

Figure H1a4-45. Total Delta Inflow Monthly Boxplot (cfs)

Table H1a4-89. Cumulative Distribution of Monthly Flow (cfs) — Total Delta Inflow

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	8,449	8,698	10,656	10,257	10,723	11,231	9,919	7,201	7,988	8,754	8,811	7,991	7,497
10%	9,351	11,013	14,240	14,586	16,218	15,538	11,881	10,752	12,317	10,047	11,254	8,817	10,268
25%	11,588	13,485	15,111	18,071	23,231	21,250	13,435	12,247	15,914	19,041	17,100	10,382	12,742
50%	14,145	16,154	21,059	30,915	40,827	32,373	23,761	18,681	16,527	21,833	18,399	17,299	16,953
75%	18,939	18,292	40,954	53,219	71,924	57,327	41,669	30,093	22,865	23,421	20,409	24,277	28,742
90%	21,477	26,830	74,924	103,296	132,470	98,037	72,132	55,184	41,408	25,810	25,117	26,014	38,848
100%	44,167	78,537	158,487	260,670	266,590	244,758	154,302	84,626	81,888	43,865	37,468	34,419	63,400
Mean	15,761	18,571	34,150	47,197	58,758	47,554	33,370	25,403	22,217	20,693	18,361	17,734	21,617
35 no CVP SJIE													
0%	8,497	8,599	11,610	11,630	12,586	10,708	9,890	7,550	7,711	8,482	8,356	7,892	7,420
10%	9,189	10,940	13,476	15,653	16,066	16,575	13,595	12,413	11,048	9,007	11,313	8,419	10,456
25%	11,502	13,153	15,152	18,439	23,983	23,193	17,434	15,262	14,415	13,294	14,304	10,461	13,172
50%	14,563	16,085	20,814	31,686	40,807	33,416	27,317	23,059	17,237	20,867	18,226	14,758	17,186
75%	18,820	18,583	42,712	56,253	74,136	61,582	41,567	31,771	24,000	23,168	19,168	24,341	28,706
90%	21,138	27,413	75,365	105,306	130,352	94,496	72,306	55,533	41,611	23,641	23,741	25,643	38,831
100%	45,558	79,512	158,628	258,322	266,016	244,757	152,617	85,222	81,729	43,949	36,777	34,141	63,413
Mean	15,662	18,376	34,293	47,936	59,020	48,425	35,590	27,599	22,283	19,084	17,656	17,123	21,814
45 no CVP SJIE													
0%	8,501	8,676	10,801	9,900	11,797	10,858	9,908	8,164	7,848	8,344	8,038	7,908	7,391
10%	9,360	10,160	13,418	14,270	17,319	17,768	15,563	11,733	11,007	8,730	10,918	8,303	10,670
25%	11,512	12,884	15,123	17,940	24,319	24,371	20,209	16,679	12,455	10,505	12,088	10,226	13,314
50%	14,198	16,102	21,094	32,664	41,147	35,022	30,095	25,810	19,356	19,081	16,506	12,623	17,488
75%	18,438	18,226	41,457	57,385	73,277	59,676	42,970	33,187	26,144	22,962	19,603	23,430	28,951
90%	21,082	26,951	74,933	105,253	129,573	93,625	72,399	55,867	41,627	23,891	23,758	24,948	38,803
100%	38,998	79,767	158,290	257,121	261,659	244,760	152,704	85,456	81,455	44,013	36,880	34,189	63,376
Mean	15,365	18,205	34,338	48,137	59,186	49,032	37,507	29,364	22,676	18,007	16,946	16,318	21,936
55 w/WSAs no CVP SJIE													
0%	8,513	8,579	9,872	10,150	10,617	10,616	9,898	7,243	7,771	8,489	8,201	7,947	7,142
10%	9,131	10,364	12,567	14,472	17,239	17,036	12,358	10,969	11,019	8,813	10,881	9,081	10,172
25%	10,943	12,827	15,407	18,279	23,977	24,230	18,958	14,729	11,572	11,977	12,024	10,167	12,753
50%	13,622	15,934	21,715	32,274	38,907	34,955	30,431	25,638	18,786	19,757	18,250	14,866	17,212
75%	17,896	18,301	40,908	55,899	73,262	60,489	45,205	37,455	28,377	23,190	20,724	22,871	29,199
90%	21,085	24,929	72,844	104,443	128,366	92,045	73,689	55,704	41,323	25,701	23,895	24,124	38,926
100%	41,440	79,176	156,828	254,917	259,985	244,744	152,134	84,607	80,630	44,019	37,707	34,744	63,459
Mean	15,050	17,889	33,754	47,620	58,688	48,737	37,288	29,315	22,772	18,288	17,213	16,230	21,802
55 no CVP SJIE													
0%	8,487	8,693	9,530	9,752	10,451	11,245	9,875	9,242	8,072	8,179	7,810	7,910	7,396
10%	9,152	10,467	12,369	14,179	17,283	19,307	16,434	13,142	11,138	8,756	9,335	8,271	10,887
25%	10,836	12,435	15,658	18,486	25,906	26,219	22,861	19,018	13,576	10,198	11,495	9,656	13,414
50%	14,013	15,987	21,587	32,476	42,273	36,935	34,830	28,714	18,894	15,206	15,803	12,647	17,995
75%	17,230	18,573	41,490	58,173	73,719	61,256	46,704	38,175	29,110	22,407	20,671	21,441	29,218
90%	21,125	26,145	74,094	103,593	128,324	92,363	74,028	55,881	41,342	25,803	23,955	23,663	38,864
100%	41,814	80,324	157,977	254,320	253,902	243,136	152,752	84,684	80,780	44,178	37,276	34,056	63,369
Mean	14,868	18,163	34,060	48,290	59,566	50,274	40,117	31,802	23,440	16,637	16,206	15,289	22,152
65 no CVP SJIE													
0%	8,510	8,652	8,460	11,871	10,474	11,478	9,904	10,280	8,712	7,998	7,836	7,926	7,954
10%	9,101	10,136	11,652	15,593	17,326	19,341	17,644	14,798	11,193	8,913	9,062	8,244	11,015
25%	10,658	12,408	14,368	19,107	27,646	28,336	24,933	21,309	14,167	10,350	10,111	9,941	13,588
50%	12,689	15,594	21,559	33,055	44,132	38,877	38,452	32,063	20,625	11,973	12,402	11,235	18,280
75%	16,038	18,649	42,065	56,963	77,282	64,810	52,093	43,163	29,797	18,189	21,546	17,840	29,036
90%	20,913	25,300	74,667	104,475	128,536	92,264	78,378	59,068	42,776	25,935	24,260	21,645	39,668
100%	41,418	80,492	157,886	252,535	246,069	242,449	152,240	84,844	79,636	45,190	37,972	31,429	63,281
Mean	14,168	17,995	34,298	49,017	60,565	52,252	43,163	34,477	24,175	15,376	15,227	13,995	22,511

Table H1a4-90. Water Year Average of Monthly Flows (cfs) — Total Delta Inflow

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	12,614	13,091	17,577	18,359	20,139	16,942	11,403	9,781	11,374	10,478	10,700	8,838
D	14,700	15,788	22,377	19,979	27,756	25,191	15,537	13,373	15,926	18,342	16,316	11,525
BN	15,808	16,405	22,874	30,305	44,024	33,298	25,973	18,456	17,448	21,776	18,717	16,274
AN	14,780	19,833	31,057	56,184	73,304	58,297	34,165	28,317	20,657	24,630	19,250	25,226
W	18,579	24,401	60,001	89,640	105,604	85,012	62,529	45,790	36,258	25,606	23,367	24,960
All	15,761	18,571	34,150	47,197	58,758	47,554	33,370	25,403	22,217	20,693	18,361	17,734
35 no CVP SJIE												
C	13,068	12,547	17,355	18,822	20,913	18,309	12,731	11,011	10,801	9,642	11,058	8,526
D	14,374	15,854	23,052	20,463	28,904	27,386	19,826	16,846	14,254	14,405	14,527	11,410
BN	15,789	16,291	22,888	31,332	45,347	34,931	29,677	22,243	18,542	20,020	17,534	13,848
AN	14,477	19,065	30,115	58,371	74,234	60,061	35,815	30,103	21,676	23,098	19,083	24,707
W	18,382	24,378	60,466	89,951	104,003	83,809	62,996	46,723	36,909	25,353	22,974	24,936
All	15,662	18,376	34,293	47,936	59,020	48,425	35,590	27,599	22,283	19,084	17,656	17,123
45 no CVP SJIE												
C	12,485	12,414	17,177	18,231	21,899	19,375	13,863	12,107	10,666	9,114	10,611	8,262
D	14,171	15,830	22,951	20,553	29,650	29,031	22,783	18,515	13,501	12,727	12,963	10,955
BN	15,608	15,928	23,095	31,400	45,264	36,330	32,709	24,812	19,106	17,941	15,872	12,108
AN	14,405	18,642	30,736	59,369	73,892	59,183	37,789	32,986	23,332	22,016	18,921	23,407
W	18,008	24,301	60,401	90,422	103,668	83,502	63,840	47,958	37,807	25,060	23,135	24,378
All	15,365	18,205	34,338	48,137	59,186	49,032	37,507	29,364	22,676	18,007	16,946	16,318
55 w/WSAs no CVP SJIE												
C	12,179	12,091	16,567	17,970	21,031	18,180	12,078	10,289	10,039	8,822	10,070	8,671
D	13,526	15,335	22,787	20,487	29,177	28,379	21,011	16,652	12,966	12,557	13,414	11,137
BN	15,362	15,681	23,085	30,912	44,950	36,283	32,396	24,429	18,495	18,646	16,283	13,097
AN	13,806	17,931	30,928	58,026	73,570	58,561	38,696	34,438	24,203	21,679	19,101	21,926
W	18,000	24,237	58,851	89,750	103,160	83,922	65,205	49,795	38,891	25,957	23,641	23,703
All	15,050	17,889	33,754	47,620	58,688	48,737	37,288	29,315	22,772	18,288	17,213	16,230
55 no CVP SJIE												
C	12,050	12,047	16,602	18,451	22,461	20,384	15,145	13,447	11,063	8,678	9,260	8,305
D	13,431	15,586	23,202	20,617	30,986	31,308	25,888	20,777	14,073	10,664	11,654	10,641
BN	14,809	15,957	22,980	32,190	45,781	38,512	36,679	27,792	19,003	14,728	14,489	11,930
AN	13,970	18,588	30,754	59,954	73,767	60,401	40,967	36,798	24,391	18,940	18,224	18,818
W	17,823	24,542	59,672	90,027	103,366	83,522	65,706	50,216	39,340	25,550	23,527	23,140
All	14,868	18,163	34,060	48,290	59,566	50,274	40,117	31,802	23,440	16,637	16,206	15,289
65 no CVP SJIE												
C	11,168	11,786	16,650	20,053	23,232	21,982	16,647	15,104	11,850	8,872	8,983	8,273
D	12,810	15,678	23,596	21,258	33,048	34,394	27,888	22,912	14,942	10,522	10,424	10,293
BN	14,175	15,498	22,810	33,120	46,802	41,339	40,912	30,537	19,921	11,947	11,840	11,292
AN	13,113	18,236	30,264	61,074	74,569	62,678	45,173	39,825	24,535	15,221	15,929	15,956
W	17,182	24,491	60,449	90,067	103,769	84,233	69,127	53,646	40,070	24,637	23,945	20,689
All	14,168	17,995	34,298	49,017	60,565	52,252	43,163	34,477	24,175	15,376	15,227	13,995

H1a4.2.46 Delta Outflow (SWRCB Delta)

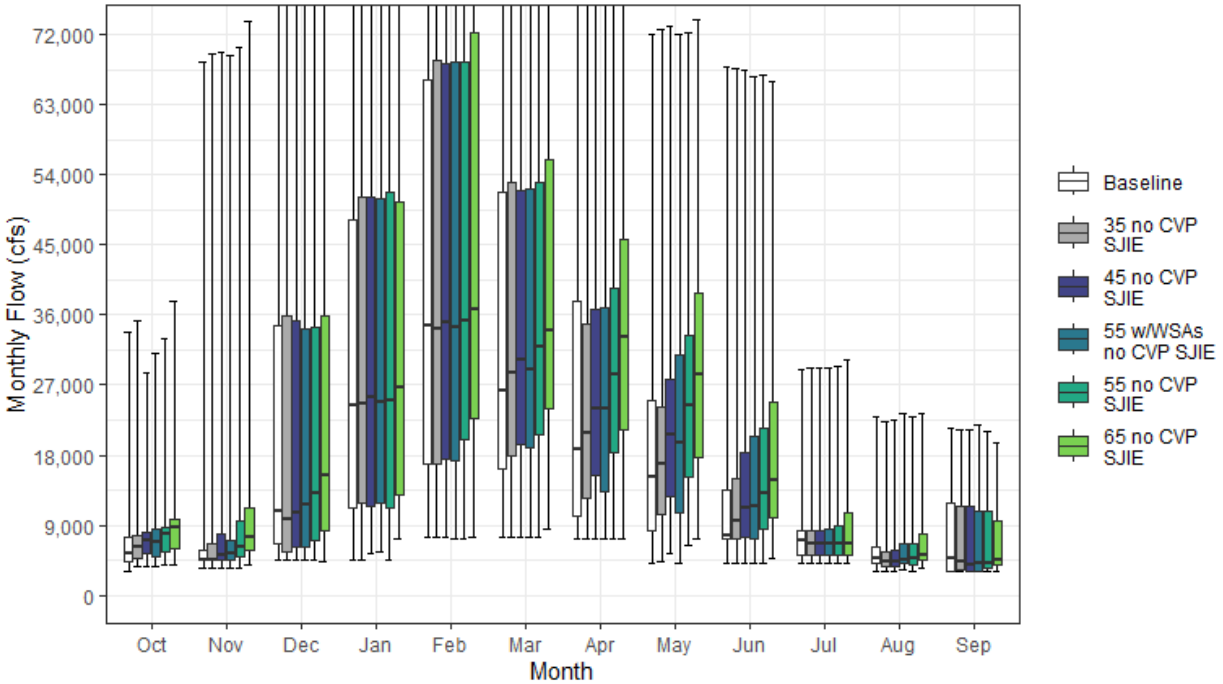

Figure H1a4-46. Delta Outflow Monthly Boxplot (cfs)

Table H1a4-91. Cumulative Distribution of Monthly Flow (cfs) — Delta Outflow (SWRCB Delta)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	3,094	3,508	4,507	4,518	7,406	7,518	7,208	4,163	4,160	4,186	3,164	3,068	4,081
10%	4,021	3,558	4,567	7,647	9,527	10,094	8,388	7,275	7,255	4,215	3,678	3,096	5,600
25%	4,267	4,517	6,568	11,283	16,852	16,163	10,117	8,282	7,294	5,191	4,181	3,123	7,103
50%	5,295	4,559	10,774	24,464	34,686	26,334	18,759	15,145	7,686	7,130	4,740	4,697	10,854
75%	7,398	5,838	34,578	48,138	66,161	51,786	37,709	25,102	13,595	8,232	6,132	11,880	21,790
90%	9,042	14,873	67,829	96,697	126,929	90,430	61,203	45,246	28,685	10,951	10,992	12,917	31,162
100%	33,783	68,575	149,425	252,997	259,252	239,630	146,210	71,971	67,870	29,042	23,016	21,506	55,256
Mean	6,523	8,214	25,355	40,501	52,240	41,497	29,001	20,433	13,372	7,727	6,004	7,292	15,472
35 no CVP SJIE													
0%	3,644	3,500	4,500	4,508	7,447	7,498	7,187	4,277	4,138	4,162	3,155	3,056	4,021
10%	4,280	3,810	4,569	8,245	10,308	10,880	9,116	7,328	7,238	4,193	3,634	3,086	5,625
25%	4,695	4,508	5,677	11,901	16,835	17,980	12,477	10,305	7,288	5,185	3,736	3,182	7,429
50%	6,286	4,607	9,759	24,580	34,181	28,531	20,727	16,791	9,508	6,719	4,377	4,280	11,075
75%	7,622	6,701	35,955	51,047	68,770	52,985	34,756	24,236	14,906	8,224	5,575	11,496	21,559
90%	8,824	15,466	67,928	98,342	123,639	87,317	61,549	45,399	28,852	8,605	9,778	12,995	31,051
100%	35,176	69,549	149,575	250,649	258,764	239,347	144,532	72,568	67,710	29,126	22,324	21,228	55,202
Mean	6,887	8,295	25,329	41,421	52,464	42,253	29,501	21,176	14,034	7,398	5,616	7,177	15,677
45 no CVP SJIE													
0%	3,606	3,500	4,500	5,398	7,383	7,493	7,188	5,297	4,136	4,158	3,137	3,054	4,234
10%	4,637	4,471	4,791	7,453	11,166	11,617	10,513	7,939	7,239	4,184	3,632	3,085	6,136
25%	5,271	4,526	6,278	11,447	17,438	19,336	15,481	12,725	7,454	5,180	3,725	3,097	7,782
50%	6,938	5,152	10,674	25,497	35,131	30,336	23,947	20,624	11,284	6,710	4,333	3,873	11,628
75%	8,136	7,796	35,342	51,069	68,187	51,971	36,609	27,769	18,230	8,229	5,710	11,451	22,000
90%	9,371	15,376	67,507	98,509	120,655	87,592	61,719	45,773	29,273	8,934	9,799	12,527	31,173
100%	28,655	69,805	149,237	249,449	254,404	239,312	144,606	73,010	67,435	29,190	22,427	21,276	55,163
Mean	7,257	8,633	25,650	41,580	52,730	42,924	31,559	23,351	15,142	7,359	5,626	6,933	16,112
55 w/WSAs no CVP SJIE													
0%	3,649	3,500	4,500	5,589	7,226	7,506	7,202	4,159	4,147	4,175	3,341	3,057	4,118
10%	4,410	3,763	5,106	7,751	11,044	10,980	9,079	7,484	7,245	4,200	3,652	3,089	5,852
25%	4,897	4,509	6,252	11,849	17,203	18,947	13,271	10,519	7,309	5,188	4,074	3,101	7,647
50%	6,919	5,465	11,727	24,896	34,397	28,932	24,055	19,511	11,463	6,718	4,590	4,171	11,193
75%	8,574	7,084	34,226	50,834	68,537	52,126	36,818	30,857	20,367	8,488	6,705	10,842	22,456
90%	9,626	14,148	65,613	97,628	119,757	83,895	62,840	46,414	29,277	10,650	9,787	11,558	31,700
100%	31,146	69,213	147,766	247,245	252,708	237,806	144,049	71,953	66,611	29,196	23,254	21,831	55,154
Mean	7,306	8,575	25,231	41,152	52,189	42,604	31,276	23,324	15,374	7,693	5,917	6,813	16,036
55 no CVP SJIE													
0%	3,912	3,503	4,500	4,502	7,212	7,487	7,187	6,316	4,168	4,162	3,134	3,052	4,275
10%	4,983	4,500	5,415	8,380	11,818	13,288	12,631	9,546	7,236	4,184	3,693	3,092	6,788
25%	5,501	4,903	7,029	11,124	19,974	20,618	18,361	15,224	8,575	5,172	3,955	3,424	8,690
50%	7,894	6,297	13,046	25,098	35,201	31,833	28,417	24,456	13,060	6,702	4,693	4,103	12,697
75%	8,740	9,528	34,474	51,859	68,507	53,003	39,435	33,286	21,555	8,939	6,591	10,701	22,844
90%	9,834	15,251	66,950	97,340	120,815	84,733	64,409	47,890	29,297	10,745	10,016	11,332	31,919
100%	32,886	70,362	148,923	246,648	246,646	237,976	144,654	72,252	66,761	29,355	22,823	21,143	55,173
Mean	7,869	9,494	26,170	41,687	53,259	44,404	34,327	26,153	16,699	7,683	5,927	6,752	16,817
65 no CVP SJIE													
0%	3,951	3,806	4,349	7,197	7,431	8,487	7,185	7,242	4,748	4,144	3,393	3,049	5,111
10%	5,339	4,636	6,282	9,931	13,692	15,403	14,748	11,152	7,244	4,275	4,046	3,299	7,715
25%	6,049	5,794	8,308	12,844	22,613	23,952	21,241	17,793	9,939	5,187	4,517	3,947	9,835
50%	8,650	7,442	15,418	26,588	36,686	34,060	33,126	28,288	14,862	6,690	5,210	4,534	14,272
75%	9,842	11,261	35,826	50,585	72,216	55,892	45,741	38,822	24,880	10,564	7,790	9,639	24,524
90%	11,087	17,570	68,760	99,408	121,196	85,499	69,305	52,811	33,377	12,698	10,109	10,425	33,390
100%	37,775	73,617	151,349	244,953	243,088	238,642	145,025	73,895	65,993	30,219	23,341	19,567	55,845
Mean	8,582	10,820	27,835	42,826	54,847	46,830	38,003	29,686	18,558	8,357	6,561	6,574	17,967

Table H1a4-92. Water Year Average of Monthly Flows (cfs) — Delta Outflow (SWRCB Delta)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	5,237	4,389	9,657	12,197	14,358	12,045	8,411	6,219	6,277	4,340	4,018	3,378
D	5,640	5,733	13,276	12,705	21,842	20,244	12,345	9,494	7,707	5,199	4,588	3,254
BN	6,555	6,121	13,520	23,618	37,646	27,623	23,144	14,753	8,525	7,282	4,838	4,363
AN	5,691	9,633	21,493	50,398	66,860	52,085	30,323	24,675	11,037	9,900	5,099	12,502
W	8,168	12,832	51,624	82,713	98,133	77,344	55,377	37,935	25,313	10,801	9,201	12,111
All	6,523	8,214	25,355	40,501	52,240	41,497	29,001	20,433	13,372	7,727	6,004	7,292
35 no CVP SJIE												
C	5,830	4,561	9,165	13,062	15,147	12,817	8,785	7,373	6,396	4,227	3,879	3,325
D	5,879	6,018	13,336	13,551	22,966	22,361	14,435	11,525	7,830	5,185	3,845	3,478
BN	6,851	6,157	13,606	24,817	38,884	29,262	24,320	16,342	9,991	6,877	4,469	3,831
AN	6,185	9,151	20,539	52,584	67,841	53,873	29,548	23,739	12,051	8,801	5,021	12,164
W	8,495	12,967	52,086	83,034	96,447	76,118	54,861	37,650	26,012	10,479	8,806	12,067
All	6,887	8,295	25,329	41,421	52,464	42,253	29,501	21,176	14,034	7,398	5,616	7,177
45 no CVP SJIE												
C	5,878	4,408	9,441	12,546	16,397	14,148	10,140	8,771	6,556	4,179	3,857	3,273
D	6,346	6,595	13,760	13,408	23,694	24,042	17,600	14,097	8,559	5,182	3,718	3,379
BN	7,318	6,434	14,017	24,889	38,959	30,670	27,414	19,479	11,673	6,710	4,431	3,474
AN	6,704	9,249	21,633	53,569	67,725	52,948	31,656	26,726	14,108	8,314	5,020	11,999
W	8,844	13,527	51,990	83,501	96,124	75,868	55,807	39,017	27,159	10,681	8,967	11,657
All	7,257	8,633	25,650	41,580	52,730	42,924	31,559	23,351	15,142	7,359	5,626	6,933
55 w/WSAs no CVP SJIE												
C	5,739	4,431	9,136	12,585	15,208	12,898	8,758	7,075	6,216	4,341	4,227	3,218
D	6,530	6,274	13,800	13,520	23,215	23,340	15,545	12,420	8,066	5,192	3,799	3,469
BN	7,076	6,239	14,221	24,381	38,627	30,623	26,904	18,782	11,138	6,712	4,372	3,764
AN	6,750	9,088	21,580	52,268	67,430	52,404	32,394	28,187	14,967	8,514	5,553	11,494
W	9,079	13,747	50,631	82,828	95,652	76,241	57,144	40,917	28,464	11,608	9,496	11,241
All	7,306	8,575	25,231	41,152	52,189	42,604	31,276	23,324	15,374	7,693	5,917	6,813
55 no CVP SJIE												
C	6,183	4,810	10,219	12,364	17,039	16,064	11,913	10,340	7,211	4,190	4,164	3,239
D	6,853	7,458	14,879	13,698	25,377	26,517	20,950	16,895	9,664	5,189	3,824	3,685
BN	7,690	7,024	14,807	25,532	39,790	32,912	31,197	23,220	13,695	6,734	4,337	3,885
AN	7,619	10,064	22,431	54,150	67,663	54,313	35,275	30,727	16,584	8,511	5,875	10,802
W	9,725	14,823	51,651	83,098	95,791	75,951	57,695	41,404	28,865	11,645	9,437	11,069
All	7,869	9,494	26,170	41,687	53,259	44,404	34,327	26,153	16,699	7,683	5,927	6,752
65 no CVP SJIE												
C	6,739	5,534	11,392	14,570	18,935	18,475	13,759	12,008	8,050	4,310	4,247	3,362
D	7,601	8,713	16,940	14,941	28,300	30,274	24,389	19,693	10,939	5,431	4,437	4,282
BN	8,104	8,099	16,270	26,854	41,429	36,234	36,086	26,977	15,788	6,907	4,961	4,513
AN	8,535	11,422	24,110	55,414	68,359	56,617	39,696	34,789	19,117	9,153	6,941	10,103
W	10,606	16,667	53,409	83,426	96,561	76,890	61,455	46,119	31,280	13,261	10,216	9,860
All	8,582	10,820	27,835	42,826	54,847	46,830	38,003	29,686	18,558	8,357	6,561	6,574

H1a4.3 Delta Interior Flows

H1a4.3.1 Delta Cross Channel

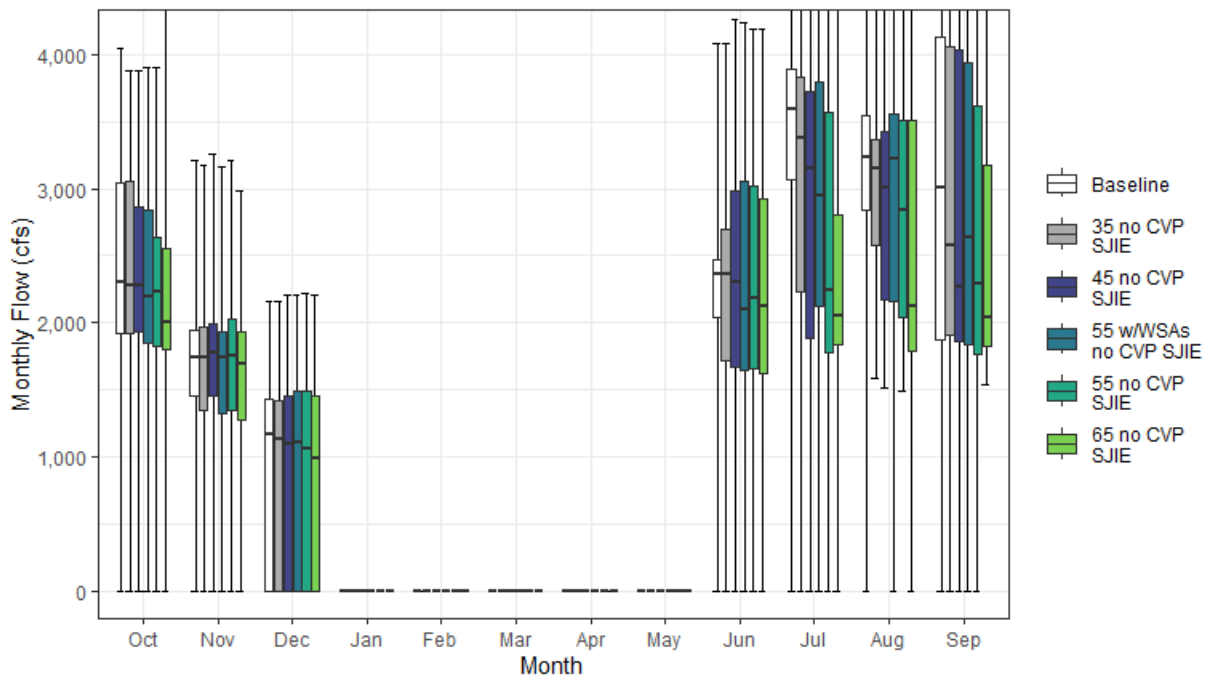

Figure H1a4-47. Delta Cross Channel Monthly Boxplot (cfs)

Table H1a4-93. Cumulative Distribution of Monthly Flow (cfs) — Delta Cross Channel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	1,553	1,046	0	0	0	0	0	0	0	1,827	2,047	1,611	734
25%	1,925	1,456	0	0	0	0	0	0	2,035	3,063	2,837	1,867	936
50%	2,299	1,738	1,172	0	0	0	0	0	2,365	3,590	3,229	3,008	1,051
75%	3,038	1,947	1,428	0	0	0	0	0	2,471	3,890	3,544	4,130	1,134
90%	3,369	2,266	1,784	0	0	0	0	0	3,136	4,301	3,811	4,494	1,207
100%	4,044	3,211	2,164	0	0	0	0	0	4,081	4,895	4,700	4,711	1,358
Mean	2,457	1,634	959	0	0	0	0	0	2,137	3,357	3,095	3,034	1,012
35 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,589	0	294
10%	1,553	1,047	0	0	0	0	0	0	0	1,693	2,089	1,567	711
25%	1,916	1,348	0	0	0	0	0	0	1,717	2,232	2,578	1,904	813
50%	2,282	1,745	1,128	0	0	0	0	0	2,363	3,380	3,153	2,572	1,011
75%	3,051	1,970	1,413	0	0	0	0	0	2,701	3,830	3,366	4,056	1,133
90%	3,331	2,267	1,704	0	0	0	0	0	3,222	4,037	3,716	4,482	1,186
100%	3,879	3,179	2,163	0	0	0	0	0	4,078	4,489	4,785	4,809	1,337
Mean	2,436	1,654	927	0	0	0	0	0	2,130	3,077	3,020	2,933	981
45 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,508	0	295
10%	1,549	1,057	0	0	0	0	0	0	0	1,660	2,031	1,561	681
25%	1,936	1,455	0	0	0	0	0	0	1,672	1,885	2,175	1,864	774
50%	2,280	1,775	1,098	0	0	0	0	0	2,304	3,146	3,002	2,264	1,011
75%	2,865	1,997	1,459	0	0	0	0	0	2,989	3,728	3,429	4,031	1,121
90%	3,300	2,391	1,809	0	0	0	0	0	3,544	4,062	3,744	4,327	1,204
100%	3,882	3,257	2,203	0	0	0	0	0	4,259	4,475	4,798	4,586	1,342
Mean	2,394	1,709	949	0	0	0	0	0	2,219	2,888	2,896	2,797	961
55 w/WSAs no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	1,544	1,064	0	0	0	0	0	0	0	1,681	1,939	1,570	685
25%	1,845	1,326	0	0	0	0	0	0	1,649	2,119	2,158	1,839	801
50%	2,191	1,743	1,111	0	0	0	0	0	2,094	2,950	3,218	2,643	964
75%	2,845	1,931	1,491	0	0	0	0	0	3,052	3,799	3,560	3,941	1,111
90%	3,337	2,224	1,780	0	0	0	0	0	3,665	4,068	3,712	4,205	1,200
100%	3,900	3,165	2,201	0	0	0	0	0	4,239	4,694	4,574	4,552	1,366
Mean	2,335	1,641	952	0	0	0	0	0	2,162	2,946	2,906	2,794	954
55 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,487	0	299
10%	1,530	1,041	0	0	0	0	0	0	0	1,648	1,779	1,558	659
25%	1,829	1,347	0	0	0	0	0	0	1,656	1,777	2,037	1,761	763
50%	2,233	1,751	1,055	0	0	0	0	0	2,182	2,246	2,840	2,286	924
75%	2,640	2,027	1,488	0	0	0	0	0	3,015	3,564	3,508	3,611	1,079
90%	3,312	2,431	1,823	0	0	0	0	0	3,606	4,028	3,751	4,021	1,181
100%	3,899	3,209	2,222	0	0	0	0	0	4,186	4,644	4,862	4,529	1,316
Mean	2,296	1,669	933	0	0	0	0	0	2,133	2,640	2,755	2,620	912
65 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	1,538	531
10%	1,535	1,043	0	0	0	0	0	0	0	1,665	1,666	1,566	636
25%	1,802	1,271	0	0	0	0	0	0	1,627	1,840	1,784	1,820	721
50%	2,010	1,696	990	0	0	0	0	0	2,120	2,050	2,125	2,040	852
75%	2,556	1,930	1,452	0	0	0	0	0	2,920	2,807	3,506	3,181	987
90%	3,253	2,304	1,851	0	0	0	0	0	3,623	3,855	3,861	3,446	1,078
100%	4,345	2,986	2,212	0	0	0	0	0	4,192	4,768	4,671	4,440	1,230
Mean	2,217	1,602	898	0	0	0	0	0	2,071	2,404	2,537	2,440	859

Table H1a4-94. Water Year Average of Monthly Flows (cfs) — Delta Cross Channel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	2,110	1,530	1,153	0	0	0	0	0	1,768	1,970	2,018	1,675
D	2,439	1,638	1,323	0	0	0	0	0	2,375	3,304	2,961	2,090
BN	2,575	1,858	1,085	0	0	0	0	0	2,440	3,823	3,322	2,872
AN	2,459	1,737	1,106	0	0	0	0	0	2,664	4,134	3,311	4,440
W	2,581	1,504	451	0	0	0	0	0	1,755	3,531	3,537	3,991
All	2,457	1,634	959	0	0	0	0	0	2,137	3,357	3,095	3,034
35 no CVP SJIE												
C	2,194	1,466	1,116	0	0	0	0	0	1,647	1,812	2,068	1,607
D	2,377	1,658	1,237	0	0	0	0	0	2,073	2,579	2,625	2,078
BN	2,568	1,845	1,053	0	0	0	0	0	2,589	3,538	3,141	2,469
AN	2,403	1,652	1,093	0	0	0	0	0	2,811	3,900	3,313	4,375
W	2,538	1,632	452	0	0	0	0	0	1,865	3,497	3,625	3,984
All	2,436	1,654	927	0	0	0	0	0	2,130	3,077	3,020	2,933
45 no CVP SJIE												
C	2,083	1,445	1,095	0	0	0	0	0	1,617	1,716	1,989	1,558
D	2,339	1,806	1,227	0	0	0	0	0	1,934	2,269	2,316	1,997
BN	2,537	1,801	1,071	0	0	0	0	0	2,653	3,154	2,837	2,169
AN	2,391	1,636	1,276	0	0	0	0	0	3,056	3,716	3,312	4,168
W	2,511	1,748	460	0	0	0	0	0	2,139	3,468	3,674	3,894
All	2,394	1,709	949	0	0	0	0	0	2,219	2,888	2,896	2,797
55 w/WSAs no CVP SJIE												
C	2,032	1,408	1,054	0	0	0	0	0	1,551	1,659	1,880	1,633
D	2,224	1,757	1,247	0	0	0	0	0	1,874	2,241	2,422	2,034
BN	2,497	1,772	1,073	0	0	0	0	0	2,573	3,282	2,928	2,357
AN	2,284	1,580	1,319	0	0	0	0	0	3,202	3,649	3,340	3,900
W	2,496	1,623	458	0	0	0	0	0	2,022	3,654	3,621	3,804
All	2,335	1,641	952	0	0	0	0	0	2,162	2,946	2,906	2,794
55 no CVP SJIE												
C	2,001	1,398	1,032	0	0	0	0	0	1,672	1,638	1,745	1,570
D	2,203	1,780	1,246	0	0	0	0	0	2,017	1,887	2,052	1,931
BN	2,390	1,798	1,086	0	0	0	0	0	2,606	2,557	2,574	2,144
AN	2,314	1,647	1,144	0	0	0	0	0	2,820	3,149	3,190	3,353
W	2,455	1,661	470	0	0	0	0	0	1,889	3,577	3,749	3,693
All	2,296	1,669	933	0	0	0	0	0	2,133	2,640	2,755	2,620
65 no CVP SJIE												
C	1,840	1,364	1,015	0	0	0	0	0	1,794	1,677	1,704	1,569
D	2,086	1,636	1,238	0	0	0	0	0	2,127	1,850	1,832	1,868
BN	2,270	1,739	1,056	0	0	0	0	0	2,248	2,044	2,061	2,027
AN	2,158	1,595	1,119	0	0	0	0	0	2,797	2,459	2,785	2,845
W	2,503	1,619	398	0	0	0	0	0	1,777	3,404	3,700	3,425
All	2,217	1,602	898	0	0	0	0	0	2,071	2,404	2,537	2,440

H1a4.3.2 Georgiana Slough

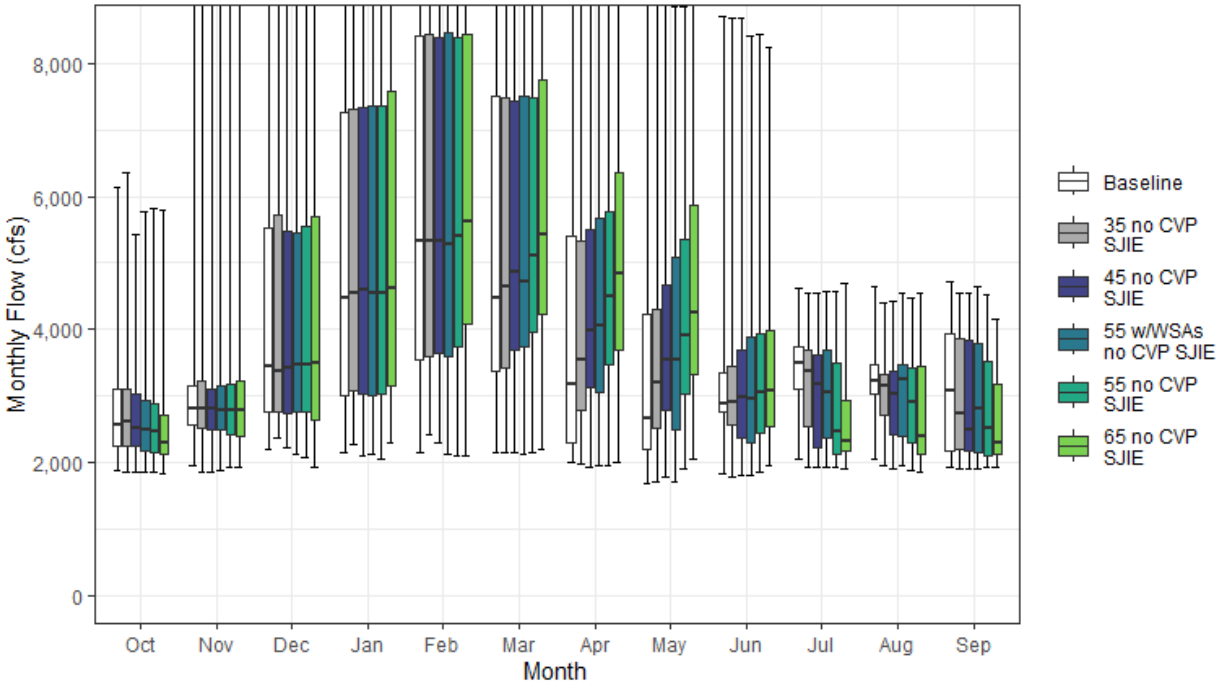

Figure H1a4-48. Georgiana Slough Monthly Boxplot (cfs)

Table H1a4-95. Cumulative Distribution of Monthly Flow (cfs) — Georgiana Slough

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	1,878	1,940	2,198	2,157	2,151	2,151	1,997	1,692	1,836	2,040	2,048	1,925	1,557
10%	1,951	2,218	2,625	2,608	2,818	2,703	2,147	2,108	2,398	2,166	2,328	1,982	1,853
25%	2,241	2,567	2,763	3,005	3,549	3,366	2,293	2,207	2,765	3,110	3,032	2,174	2,146
50%	2,566	2,797	3,435	4,468	5,334	4,471	3,183	2,655	2,872	3,491	3,221	3,077	2,552
75%	3,098	3,159	5,529	7,258	8,406	7,500	5,391	4,222	3,357	3,739	3,468	3,923	3,534
90%	3,459	4,283	8,678	9,617	10,479	9,106	8,186	6,734	4,651	4,061	3,673	4,196	4,159
100%	6,144	9,090	11,306	11,830	12,021	11,608	11,013	8,894	8,697	4,615	4,651	4,710	5,323
Mean	2,715	3,128	4,562	5,336	6,021	5,357	4,123	3,520	3,286	3,351	3,150	3,104	2,870
35 no CVP SJIE													
0%	1,847	1,845	2,359	2,275	2,416	2,140	1,963	1,704	1,789	1,917	1,957	1,908	1,543
10%	1,938	2,223	2,574	2,695	2,826	2,784	2,401	2,248	2,220	2,039	2,340	1,943	1,887
25%	2,241	2,509	2,766	3,080	3,583	3,428	2,779	2,504	2,570	2,538	2,714	2,205	2,190
50%	2,602	2,802	3,377	4,545	5,321	4,648	3,532	3,193	2,903	3,361	3,155	2,728	2,589
75%	3,090	3,219	5,709	7,316	8,440	7,482	5,333	4,297	3,439	3,686	3,318	3,872	3,535
90%	3,348	4,323	8,611	9,662	10,373	9,052	8,188	6,654	4,620	3,866	3,587	4,181	4,141
100%	6,361	9,110	11,326	11,830	12,015	11,592	11,015	8,897	8,693	4,543	4,406	4,551	5,298
Mean	2,701	3,096	4,553	5,383	6,056	5,463	4,383	3,749	3,278	3,136	3,054	3,025	2,883
45 no CVP SJIE													
0%	1,855	1,854	2,224	2,096	2,303	2,153	1,926	1,769	1,807	1,921	1,895	1,902	1,536
10%	1,951	2,111	2,545	2,621	2,936	3,017	2,667	2,181	2,194	2,012	2,295	1,937	1,910
25%	2,236	2,488	2,742	3,017	3,633	3,693	3,123	2,778	2,365	2,219	2,405	2,171	2,181
50%	2,521	2,808	3,415	4,583	5,321	4,875	3,985	3,539	2,991	3,165	3,039	2,489	2,641
75%	3,024	3,105	5,488	7,334	8,400	7,433	5,508	4,656	3,699	3,605	3,367	3,843	3,586
90%	3,296	4,258	8,588	9,661	10,327	9,050	8,185	6,733	4,589	3,860	3,608	4,066	4,129
100%	5,433	9,122	11,297	11,829	11,997	11,592	11,008	8,898	8,680	4,547	4,417	4,553	5,300
Mean	2,659	3,075	4,555	5,377	6,089	5,547	4,622	3,962	3,314	2,991	2,958	2,921	2,895
55 w/WSAs no CVP SJIE													
0%	1,852	1,875	2,117	2,120	2,132	2,127	1,941	1,695	1,804	1,925	1,949	1,904	1,507
10%	1,934	2,099	2,427	2,623	2,947	2,898	2,271	2,136	2,187	2,032	2,285	2,033	1,874
25%	2,162	2,483	2,765	3,013	3,579	3,735	3,056	2,486	2,293	2,371	2,402	2,155	2,123
50%	2,487	2,789	3,479	4,553	5,286	4,716	4,062	3,545	2,946	3,048	3,250	2,800	2,635
75%	2,927	3,142	5,460	7,358	8,460	7,507	5,680	5,091	3,889	3,678	3,473	3,776	3,628
90%	3,335	3,914	8,521	9,487	10,268	9,046	8,191	6,695	4,868	3,864	3,613	3,976	4,156
100%	5,778	9,103	11,267	11,818	11,993	11,592	11,004	8,863	8,424	4,560	4,545	4,644	5,307
Mean	2,618	3,035	4,522	5,359	6,072	5,532	4,611	3,977	3,341	3,035	3,005	2,919	2,892
55 no CVP SJIE													
0%	1,842	1,916	2,078	2,055	2,108	2,157	1,963	1,904	1,848	1,932	1,878	1,916	1,535
10%	1,917	2,140	2,377	2,589	2,932	3,253	2,761	2,391	2,205	2,004	2,102	1,934	1,921
25%	2,151	2,409	2,769	3,016	3,748	3,953	3,479	3,020	2,441	2,111	2,300	2,095	2,205
50%	2,470	2,787	3,477	4,551	5,395	5,101	4,486	3,918	3,056	2,464	2,915	2,525	2,650
75%	2,872	3,175	5,542	7,350	8,397	7,482	5,776	5,361	3,943	3,489	3,427	3,516	3,669
90%	3,297	4,086	8,581	9,472	10,348	8,990	8,252	6,860	5,045	3,836	3,613	3,823	4,108
100%	5,824	9,127	11,290	11,819	11,966	11,592	11,002	8,861	8,426	4,560	4,465	4,526	5,297
Mean	2,588	3,072	4,539	5,397	6,142	5,699	4,944	4,269	3,399	2,801	2,850	2,785	2,920
65 no CVP SJIE													
0%	1,840	1,917	1,922	2,303	2,109	2,188	1,993	2,048	1,939	1,914	1,860	1,917	1,611
10%	1,915	2,093	2,269	2,687	2,938	3,181	2,919	2,530	2,242	2,018	2,019	1,939	1,961
25%	2,121	2,396	2,632	3,161	4,081	4,227	3,682	3,317	2,537	2,160	2,113	2,134	2,265
50%	2,286	2,773	3,492	4,615	5,634	5,432	4,847	4,260	3,083	2,310	2,396	2,303	2,676
75%	2,702	3,212	5,693	7,593	8,445	7,764	6,366	5,871	3,986	2,920	3,455	3,177	3,634
90%	3,268	3,964	8,600	9,436	10,303	9,110	8,399	7,119	5,286	3,738	3,718	3,380	4,235
100%	5,783	9,102	11,313	11,815	11,936	11,592	10,993	8,871	8,253	4,701	4,549	4,142	5,256
Mean	2,489	3,038	4,540	5,473	6,244	5,933	5,297	4,606	3,473	2,621	2,721	2,609	2,953

Table H1a4-96. Water Year Average of Monthly Flows (cfs) — Georgiana Slough

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	2,356	2,498	3,004	3,004	3,208	2,848	2,149	1,997	2,302	2,249	2,286	2,023
D	2,608	2,817	3,543	3,243	4,085	3,834	2,520	2,332	2,839	3,271	3,008	2,341
BN	2,712	2,875	3,529	4,398	5,517	4,606	3,585	2,792	2,897	3,669	3,285	2,940
AN	2,623	3,277	4,315	6,721	7,642	6,804	4,435	3,896	3,094	3,908	3,276	4,142
W	3,023	3,792	6,892	8,154	8,610	7,709	6,566	5,515	4,461	3,574	3,580	3,930
All	2,715	3,128	4,562	5,336	6,021	5,357	4,123	3,520	3,286	3,351	3,150	3,104
35 no CVP SJIE												
C	2,420	2,424	2,967	3,050	3,286	3,017	2,297	2,119	2,196	2,127	2,324	1,970
D	2,561	2,823	3,615	3,289	4,167	4,045	3,049	2,726	2,572	2,715	2,750	2,331
BN	2,707	2,860	3,487	4,497	5,555	4,741	4,009	3,217	3,029	3,451	3,146	2,631
AN	2,580	3,164	4,239	6,780	7,733	6,999	4,591	4,043	3,224	3,728	3,278	4,092
W	2,998	3,776	6,888	8,166	8,564	7,651	6,626	5,589	4,551	3,546	3,517	3,920
All	2,701	3,096	4,553	5,383	6,056	5,463	4,383	3,749	3,278	3,136	3,054	3,025
45 no CVP SJIE												
C	2,335	2,401	2,945	2,961	3,415	3,158	2,439	2,251	2,169	2,054	2,263	1,933
D	2,532	2,815	3,604	3,294	4,241	4,237	3,434	2,922	2,449	2,478	2,514	2,269
BN	2,683	2,809	3,519	4,469	5,526	4,882	4,391	3,543	3,085	3,156	2,913	2,401
AN	2,572	3,113	4,268	6,841	7,708	6,955	4,826	4,405	3,442	3,587	3,277	3,933
W	2,946	3,777	6,881	8,184	8,577	7,641	6,724	5,724	4,652	3,524	3,555	3,850
All	2,659	3,075	4,555	5,377	6,089	5,547	4,622	3,962	3,314	2,991	2,958	2,921
55 w/WSAs no CVP SJIE												
C	2,296	2,357	2,864	2,936	3,322	3,021	2,237	2,062	2,110	2,010	2,179	1,990
D	2,444	2,758	3,603	3,292	4,226	4,178	3,236	2,711	2,396	2,456	2,595	2,297
BN	2,652	2,776	3,530	4,436	5,531	4,881	4,390	3,515	3,015	3,255	2,983	2,545
AN	2,489	3,013	4,335	6,770	7,678	6,907	4,970	4,610	3,570	3,536	3,299	3,728
W	2,947	3,772	6,783	8,186	8,593	7,726	6,882	5,967	4,807	3,667	3,641	3,785
All	2,618	3,035	4,522	5,359	6,072	5,532	4,611	3,977	3,341	3,035	3,005	2,919
55 no CVP SJIE												
C	2,272	2,346	2,857	2,984	3,453	3,287	2,600	2,421	2,217	1,994	2,076	1,942
D	2,427	2,785	3,631	3,291	4,389	4,499	3,837	3,205	2,522	2,185	2,311	2,219
BN	2,570	2,806	3,546	4,562	5,614	5,099	4,895	3,916	3,044	2,699	2,712	2,382
AN	2,512	3,106	4,341	6,878	7,641	7,034	5,231	4,892	3,554	3,152	3,184	3,308
W	2,917	3,823	6,810	8,165	8,598	7,710	6,923	6,009	4,835	3,608	3,612	3,695
All	2,588	3,072	4,539	5,397	6,142	5,699	4,944	4,269	3,399	2,801	2,850	2,785
65 no CVP SJIE												
C	2,149	2,306	2,860	3,186	3,535	3,472	2,794	2,637	2,325	2,024	2,044	1,941
D	2,337	2,794	3,657	3,371	4,621	4,850	4,084	3,469	2,620	2,156	2,142	2,170
BN	2,478	2,738	3,493	4,672	5,683	5,417	5,400	4,263	3,146	2,305	2,318	2,292
AN	2,393	3,058	4,287	6,958	7,720	7,291	5,773	5,261	3,546	2,623	2,873	2,919
W	2,826	3,790	6,849	8,147	8,645	7,823	7,267	6,446	4,887	3,480	3,702	3,364
All	2,489	3,038	4,540	5,473	6,244	5,933	5,297	4,606	3,473	2,621	2,721	2,609

H1a4.3.3 San Joaquin River at Jersey Point (QWEST)

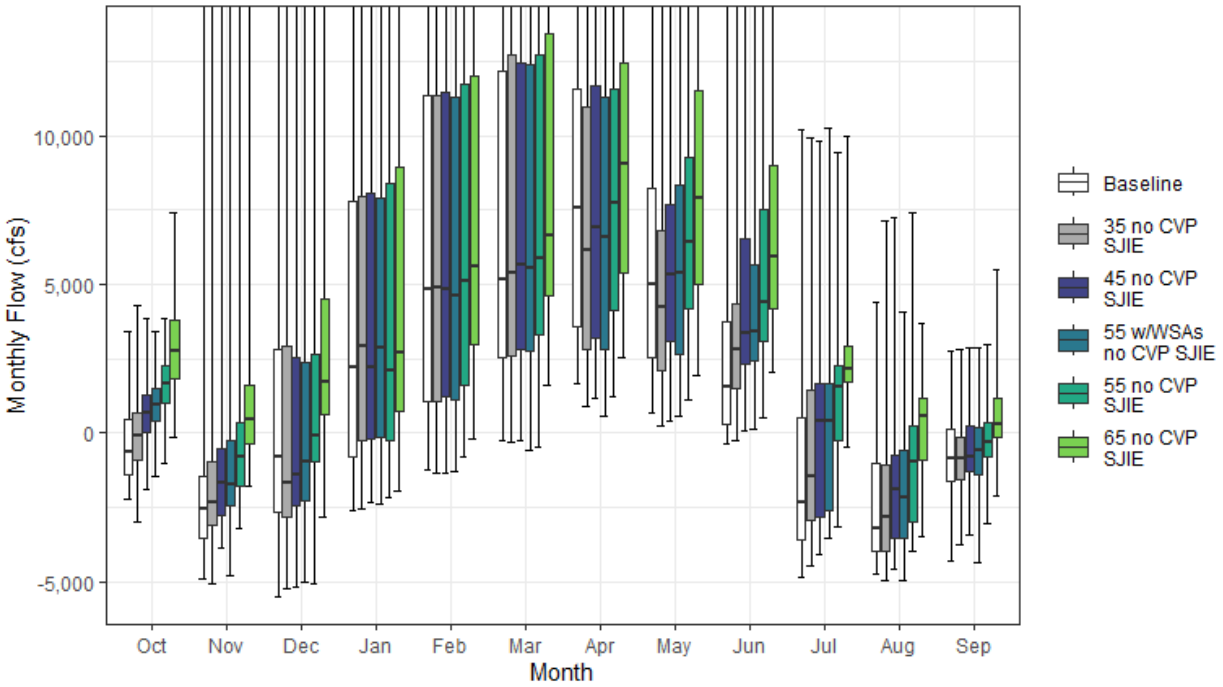

Figure H1a4-49. San Joaquin River at Jersey Point (QWEST) Monthly Boxplot (cfs)

Table H1a4-97. Cumulative Distribution of Monthly Flow (cfs) — San Joaquin River at Jersey Point (QWEST)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	-2,216	-4,918	-5,494	-2,604	-1,215	-268	1,656	672	-386	-4,880	-4,751	-4,332	-767
10%	-1,696	-4,095	-3,695	-1,613	-439	892	2,597	1,515	-5	-4,163	-4,258	-3,710	-294
25%	-1,410	-3,544	-2,653	-792	1,083	2,515	3,555	2,519	321	-3,604	-3,988	-1,647	166
50%	-658	-2,564	-786	2,200	4,857	5,192	7,596	5,005	1,538	-2,356	-3,220	-875	1,113
75%	485	-1,478	2,818	7,783	11,340	12,201	11,565	8,236	3,727	494	-1,046	117	3,382
90%	1,235	42	8,815	16,005	21,027	18,881	16,394	12,600	9,747	1,773	1,106	461	5,603
100%	3,404	16,374	28,117	75,267	57,186	63,141	37,264	26,669	25,245	10,183	4,424	2,742	15,469
Mean	-380	-2,048	1,462	5,635	8,244	8,217	8,940	6,336	3,223	-1,373	-2,285	-1,065	2,083
35 no CVP SJIE													
0%	-2,977	-5,067	-5,234	-2,561	-1,366	-331	877	231	-228	-4,461	-4,965	-3,739	-700
10%	-1,589	-4,048	-3,833	-1,566	-364	462	1,692	1,219	182	-3,457	-4,285	-2,404	-73
25%	-932	-3,080	-2,838	-248	1,073	2,599	2,797	2,112	1,513	-2,940	-3,977	-1,574	394
50%	-72	-2,341	-1,688	2,909	4,876	5,392	6,159	4,244	2,825	-1,467	-2,844	-845	1,103
75%	691	-965	2,897	7,984	11,357	12,704	10,956	6,794	4,360	1,449	-1,047	-142	3,361
90%	1,570	138	9,086	15,833	21,082	18,725	15,600	12,005	9,718	1,808	737	632	5,517
100%	4,283	16,196	28,153	75,252	57,257	62,859	37,264	26,872	25,278	9,957	7,168	2,828	15,698
Mean	50	-1,779	1,256	5,905	8,298	8,352	7,848	5,620	3,921	-706	-2,242	-817	2,132
45 no CVP SJIE													
0%	-1,907	-3,846	-5,200	-2,326	-1,342	-239	1,177	429	77	-4,068	-4,561	-3,453	-469
10%	-967	-3,284	-3,005	-1,693	-228	967	2,361	2,027	1,488	-3,298	-4,072	-1,777	176
25%	-1	-2,745	-2,430	-216	1,212	2,830	3,224	3,082	2,331	-2,825	-3,564	-1,268	691
50%	653	-1,666	-1,430	2,217	4,848	5,667	6,915	5,317	3,361	401	-1,895	-805	1,410
75%	1,280	-506	2,555	8,055	11,478	12,446	11,704	7,709	6,535	1,671	-756	265	3,655
90%	2,298	331	9,098	15,811	20,897	18,685	15,792	12,257	9,727	2,107	622	797	5,748
100%	3,879	16,019	28,122	75,244	57,236	62,821	37,248	26,992	25,266	9,813	7,224	2,893	15,713
Mean	623	-1,251	1,545	5,883	8,438	8,566	8,398	6,472	4,875	-75	-1,816	-583	2,457
55 w/WSAs no CVP SJIE													
0%	-1,473	-4,803	-5,002	-2,399	-1,285	-574	593	596	141	-3,551	-4,990	-4,381	-120
10%	-604	-2,887	-2,932	-1,519	-394	949	2,257	1,846	1,765	-3,118	-4,191	-2,324	396
25%	395	-2,438	-2,289	-145	1,140	2,772	2,789	2,678	2,458	-2,603	-3,526	-1,410	646
50%	950	-1,716	-958	2,858	4,623	5,558	6,590	5,363	3,427	378	-2,176	-602	1,318
75%	1,503	-238	2,351	7,925	11,292	12,411	11,331	8,323	5,670	1,681	-576	163	3,693
90%	1,910	261	8,957	15,818	20,762	18,770	15,910	12,339	10,233	2,270	1,539	933	5,858
100%	3,426	16,008	28,076	75,230	57,207	61,330	37,318	26,934	25,075	10,287	4,083	2,862	15,311
Mean	866	-1,127	1,651	5,890	8,305	8,424	8,156	6,368	4,876	42	-1,774	-692	2,452
55 no CVP SJIE													
0%	-1,007	-3,231	-5,069	-2,174	-811	-476	1,212	1,124	502	-3,153	-3,959	-3,034	-50
10%	-244	-2,345	-2,268	-1,469	399	2,166	2,962	2,346	2,101	-2,603	-3,601	-1,683	764
25%	1,035	-1,767	-981	-271	1,595	3,283	4,102	4,208	3,073	-244	-2,999	-781	1,177
50%	1,640	-775	-86	2,128	5,090	5,897	7,770	6,421	4,377	1,551	-987	-310	2,138
75%	2,256	349	2,659	8,404	11,724	12,726	11,563	9,300	7,503	2,246	235	366	4,041
90%	3,016	1,464	8,982	15,955	20,893	18,764	16,445	12,453	10,535	3,323	1,606	1,260	6,170
100%	3,866	16,262	28,130	75,219	57,184	63,110	37,292	26,919	25,216	9,441	7,389	2,968	15,768
Mean	1,554	-394	2,311	5,893	8,711	9,055	9,049	7,382	5,814	1,136	-1,081	-144	2,954
65 no CVP SJIE													
0%	-170	-1,766	-2,847	-1,929	-179	1,588	2,517	1,927	2,034	-449	-3,509	-2,104	994
10%	860	-886	-383	-647	1,947	3,326	4,326	3,197	2,953	1,344	-2,410	-636	1,512
25%	1,817	-355	626	753	2,952	4,630	5,393	5,000	4,176	1,711	-900	-127	1,923
50%	2,781	469	1,721	2,722	5,608	6,653	9,069	7,918	5,923	2,178	556	303	3,066
75%	3,792	1,609	4,506	8,962	12,035	13,436	12,463	11,547	9,031	2,913	1,166	1,165	4,889
90%	4,530	3,055	9,284	15,962	21,802	19,110	17,156	15,405	12,061	4,960	1,734	2,239	6,743
100%	7,399	19,584	30,650	75,253	60,857	64,467	38,296	28,759	25,559	10,001	3,699	5,488	16,779
Mean	2,773	1,020	3,708	6,393	9,454	9,850	10,209	8,831	7,110	2,639	106	553	3,763

Table H1a4-98. Water Year Average of Monthly Flows (cfs) — San Joaquin River at Jersey Point (QWEST)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	260	-1,783	-1,096	64	734	1,332	2,705	1,538	1,741	544	-102	237
D	-544	-2,482	-1,037	-489	2,005	3,139	4,215	2,830	520	-3,476	-2,951	-1,408
BN	-191	-2,157	-1,141	2,079	5,889	5,369	8,404	5,284	1,099	-3,279	-4,041	-3,179
AN	-674	-1,449	459	8,364	10,935	10,301	10,050	8,309	2,639	-1,797	-3,781	-761
W	-603	-2,041	6,708	14,257	17,241	16,584	15,625	11,341	7,572	523	-1,251	-292
All	-380	-2,048	1,462	5,635	8,244	8,217	8,940	6,336	3,223	-1,373	-2,285	-1,065
35 no CVP SJIE												
C	553	-1,203	-1,439	523	881	984	2,162	1,950	2,353	951	-534	343
D	-81	-2,222	-1,646	-62	2,182	3,480	3,037	2,433	1,967	-887	-2,571	-1,136
BN	126	-2,036	-1,145	2,391	5,946	5,734	6,810	4,250	1,934	-2,626	-3,763	-2,216
AN	17	-1,316	389	8,600	11,183	10,729	8,179	6,408	3,024	-1,996	-3,949	-850
W	-156	-1,783	6,687	14,299	17,073	16,562	14,934	10,467	7,807	276	-1,266	-302
All	50	-1,779	1,256	5,905	8,298	8,352	7,848	5,620	3,921	-706	-2,242	-817
45 no CVP SJIE												
C	984	-1,271	-1,037	511	1,297	1,419	2,634	2,510	2,635	1,243	-257	454
D	521	-1,482	-1,131	-275	2,293	3,814	3,796	3,733	3,244	216	-1,705	-993
BN	701	-1,492	-890	2,393	6,120	5,999	7,488	5,415	3,310	-1,417	-2,734	-1,507
AN	580	-962	1,054	8,724	11,392	10,729	8,784	7,208	4,023	-1,832	-3,902	-265
W	474	-1,035	6,623	14,338	17,040	16,625	15,269	10,967	8,597	561	-1,312	-378
All	623	-1,251	1,545	5,883	8,438	8,566	8,398	6,472	4,875	-75	-1,816	-583
55 w/WSAs no CVP SJIE												
C	1,041	-1,020	-859	775	833	1,117	2,512	1,978	2,573	1,603	450	125
D	1,125	-1,448	-954	-112	2,162	3,530	3,019	3,380	3,024	350	-1,896	-1,021
BN	616	-1,525	-679	2,293	6,034	5,856	7,074	4,877	3,107	-1,889	-3,042	-1,895
AN	1,006	-537	901	8,446	11,285	10,598	8,684	7,409	4,209	-1,420	-3,487	205
W	684	-933	6,676	14,275	17,042	16,665	15,406	11,428	8,851	793	-1,383	-483
All	866	-1,127	1,651	5,890	8,305	8,424	8,156	6,368	4,876	42	-1,774	-692
55 no CVP SJIE												
C	1,561	-604	170	141	1,442	2,502	3,390	3,042	3,042	1,552	965	392
D	1,526	-441	-203	-37	2,846	4,370	4,616	4,759	3,990	1,589	-786	-525
BN	1,607	-941	55	2,374	6,629	6,421	8,028	6,809	5,472	734	-1,941	-1,066
AN	1,758	-141	1,760	8,837	11,477	11,136	9,856	8,232	5,494	397	-2,675	1,498
W	1,457	-2	6,946	14,359	17,101	16,821	15,642	11,645	8,973	1,133	-1,208	-222
All	1,554	-394	2,311	5,893	8,711	9,055	9,049	7,382	5,814	1,136	-1,081	-144
65 no CVP SJIE												
C	2,672	285	1,272	947	2,670	3,558	4,032	3,395	3,363	1,532	1,236	531
D	2,675	611	1,489	671	4,004	5,495	6,452	5,891	4,668	1,899	645	292
BN	2,436	501	1,604	2,912	7,431	7,353	9,396	8,413	6,507	2,771	396	-37
AN	3,240	1,495	3,778	9,112	11,529	11,641	10,812	9,963	8,022	3,552	-68	2,616
W	2,926	1,851	7,938	14,610	17,519	17,265	16,532	13,697	10,918	3,322	-1,005	304
All	2,773	1,020	3,708	6,393	9,454	9,850	10,209	8,831	7,110	2,639	106	553

H1a4.3.4 Old and Middle Rivers Net Flow

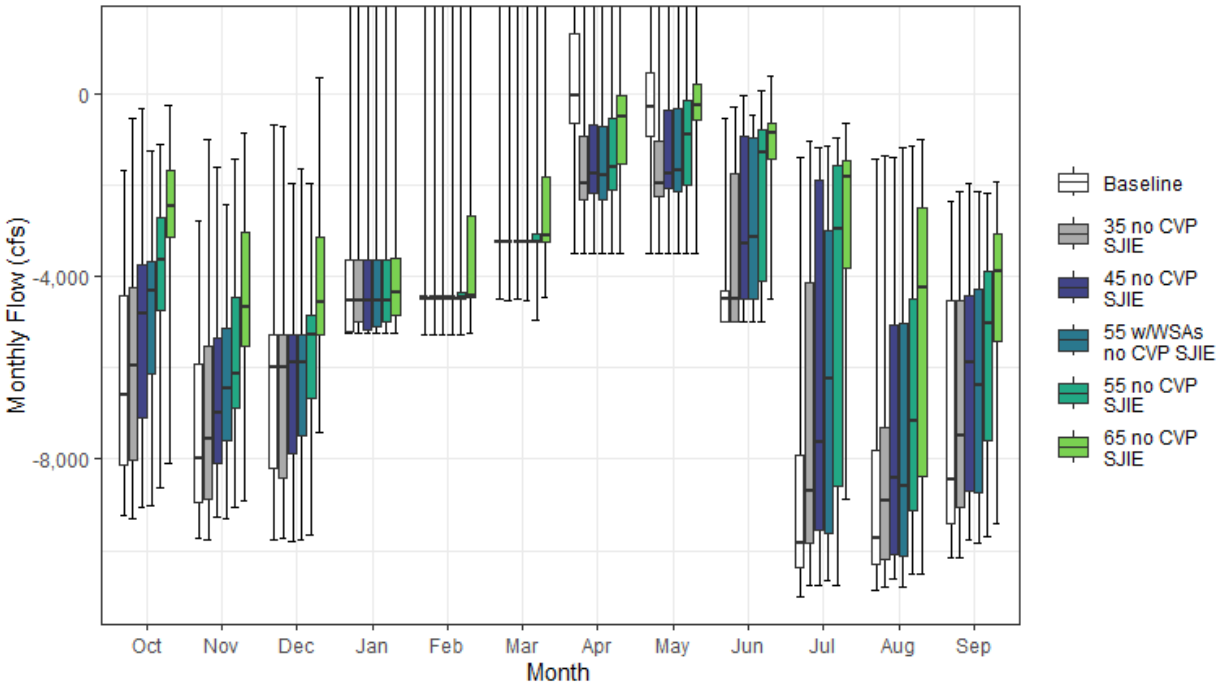

Figure H1a4-50. Old and Middle Rivers Net Flow Monthly Boxplot (cfs)

Table H1a4-99. Cumulative Distribution of Monthly Flow (cfs) — Old and Middle Rivers Net Flow

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	-9,246	-9,736	-9,765	-5,242	-5,268	-4,505	-3,500	-3,500	-5,000	-11,004	-10,863	-10,151	-4,649
10%	-8,550	-9,260	-9,368	-5,242	-5,000	-3,500	-2,637	-3,482	-5,000	-10,656	-10,496	-9,742	-4,314
25%	-8,138	-8,951	-8,203	-5,205	-4,483	-3,258	-651	-935	-5,000	-10,356	-10,319	-9,409	-4,224
50%	-6,588	-7,970	-5,980	-4,516	-4,464	-3,258	-32	-291	-4,500	-9,822	-9,722	-8,459	-3,861
75%	-4,417	-5,932	-5,267	-3,645	-4,447	-3,224	1,314	460	-4,297	-7,904	-7,814	-4,523	-3,381
90%	-3,526	-3,966	-4,104	-3,545	-3,671	-2,294	1,756	1,194	-1,666	-2,426	-4,827	-2,861	-2,261
100%	-1,688	-2,769	-696	19,185	6,005	16,817	7,518	3,502	-542	-1,399	-1,418	-2,359	-202
Mean	-6,220	-7,260	-6,449	-4,157	-4,073	-2,859	37	-397	-4,163	-8,374	-8,579	-7,252	-3,614
35 no CVP SJIE													
0%	-9,295	-9,765	-9,725	-5,242	-5,268	-4,516	-3,500	-3,500	-5,000	-10,764	-10,811	-10,150	-4,784
10%	-8,551	-9,161	-9,466	-5,242	-5,000	-3,590	-2,953	-3,482	-5,000	-10,276	-10,400	-9,507	-4,500
25%	-8,023	-8,885	-8,429	-5,000	-4,483	-3,258	-2,320	-2,240	-5,000	-9,844	-10,194	-9,062	-4,271
50%	-5,954	-7,561	-5,999	-4,516	-4,464	-3,258	-1,949	-1,958	-4,500	-8,707	-8,899	-7,487	-3,851
75%	-4,242	-5,535	-5,281	-3,645	-4,444	-3,233	-944	-1,027	-1,731	-4,130	-7,298	-4,529	-3,103
90%	-2,777	-3,429	-5,214	-2,950	-3,726	-2,828	-69	-379	-894	-1,461	-4,827	-2,859	-2,437
100%	-536	-984	-726	19,185	6,098	16,551	7,505	3,488	-298	-1,046	-1,355	-2,123	-265
Mean	-5,795	-7,003	-6,598	-3,990	-4,102	-2,963	-1,532	-1,725	-3,612	-7,184	-8,277	-6,805	-3,604
45 no CVP SJIE													
0%	-9,051	-9,283	-9,796	-5,242	-5,268	-4,505	-3,500	-3,500	-5,000	-10,764	-10,628	-9,777	-4,751
10%	-8,275	-8,865	-8,924	-5,242	-5,000	-3,500	-2,823	-2,725	-5,000	-10,225	-10,302	-9,343	-4,338
25%	-7,101	-8,108	-7,871	-5,172	-4,483	-3,258	-2,193	-2,057	-4,500	-9,560	-10,084	-8,683	-4,091
50%	-4,825	-6,982	-5,880	-4,516	-4,464	-3,258	-1,755	-1,755	-3,288	-7,633	-8,419	-5,876	-3,425
75%	-3,754	-5,337	-5,268	-3,637	-4,428	-3,232	-664	-346	-944	-1,893	-5,076	-4,418	-2,649
90%	-2,736	-3,124	-4,713	-3,260	-3,342	-2,286	-65	-8	-732	-1,426	-4,644	-2,832	-2,058
100%	-313	-1,617	-1,979	19,185	6,098	16,515	7,508	3,491	-31	-1,161	-1,406	-1,975	-266
Mean	-5,193	-6,527	-6,344	-4,021	-4,013	-2,910	-1,410	-1,362	-2,955	-6,233	-7,619	-6,307	-3,319
55 w/WSAs no CVP SJIE													
0%	-9,006	-9,293	-9,774	-5,242	-5,268	-4,541	-3,500	-3,500	-5,000	-10,653	-10,811	-9,847	-4,484
10%	-8,136	-8,580	-9,028	-5,233	-5,000	-3,500	-2,840	-2,640	-5,000	-10,075	-10,413	-9,331	-4,229
25%	-6,134	-7,611	-7,489	-5,084	-4,483	-3,258	-2,335	-2,153	-4,499	-9,634	-10,117	-8,717	-3,917
50%	-4,307	-6,468	-5,877	-4,515	-4,464	-3,258	-1,793	-1,682	-3,124	-6,231	-8,585	-6,396	-3,278
75%	-3,661	-5,132	-5,263	-3,637	-4,440	-3,234	-708	-308	-955	-3,006	-5,022	-4,281	-2,826
90%	-2,470	-3,173	-4,270	-2,329	-3,872	-2,325	15	-21	-763	-1,447	-4,335	-3,234	-2,058
100%	-1,261	-2,437	-1,649	19,185	6,071	15,114	7,617	3,491	-471	-1,128	-1,164	-2,140	-346
Mean	-4,863	-6,288	-6,194	-3,949	-4,060	-2,933	-1,459	-1,326	-2,836	-6,168	-7,599	-6,337	-3,265
55 no CVP SJIE													
0%	-8,626	-9,057	-9,663	-5,242	-5,268	-4,941	-3,500	-3,500	-5,000	-10,763	-10,510	-9,686	-4,417
10%	-7,876	-8,238	-7,666	-5,232	-4,982	-3,281	-2,686	-2,627	-4,500	-9,779	-10,088	-8,953	-4,088
25%	-4,751	-6,887	-6,671	-5,000	-4,483	-3,258	-2,104	-2,013	-4,091	-8,589	-9,117	-7,604	-3,757
50%	-3,637	-6,126	-5,290	-4,516	-4,464	-3,254	-1,594	-893	-1,296	-2,972	-7,160	-5,012	-2,782
75%	-2,728	-4,454	-4,861	-3,642	-4,360	-3,070	-537	-145	-768	-1,579	-4,492	-3,872	-2,217
90%	-2,159	-2,895	-3,392	-3,193	-2,507	-1,680	39	410	-525	-1,362	-2,622	-2,838	-1,745
100%	-1,098	-1,437	-1,980	19,186	6,098	16,787	7,502	3,477	74	-961	-1,143	-2,182	-251
Mean	-4,199	-5,685	-5,603	-4,054	-3,887	-2,699	-1,274	-1,041	-2,240	-4,687	-6,658	-5,557	-2,875
65 no CVP SJIE													
0%	-8,082	-8,909	-7,420	-5,242	-5,253	-4,470	-3,500	-3,500	-4,500	-8,894	-10,510	-9,402	-3,705
10%	-7,019	-6,316	-6,242	-5,215	-4,494	-3,258	-2,174	-1,667	-2,910	-7,032	-9,607	-8,413	-3,392
25%	-3,150	-5,531	-5,290	-4,850	-4,464	-3,258	-1,540	-574	-1,440	-3,805	-8,372	-5,427	-2,671
50%	-2,448	-4,673	-4,571	-4,351	-4,438	-3,109	-502	-234	-868	-1,824	-4,231	-3,872	-2,025
75%	-1,690	-3,027	-3,127	-3,608	-2,681	-1,801	-41	229	-638	-1,465	-2,501	-3,071	-1,656
90%	-1,224	-1,789	-2,212	-2,277	-1,529	-1,136	440	859	-302	-1,233	-1,877	-2,647	-1,380
100%	-256	-856	364	19,185	10,009	18,063	8,435	4,826	374	-641	-1,009	-1,938	439
Mean	-2,938	-4,356	-4,326	-3,724	-3,417	-2,284	-714	-276	-1,218	-2,918	-5,141	-4,518	-2,163

Table H1a4-100. Water Year Average of Monthly Flows (cfs) — Old and Middle Rivers Net Flow

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	-4,731	-5,669	-5,707	-3,926	-4,371	-3,064	-355	-736	-2,088	-2,945	-3,878	-3,100
D	-6,071	-7,016	-6,879	-4,914	-4,643	-3,214	-270	-540	-4,573	-9,145	-8,334	-5,517
BN	-6,143	-7,111	-6,934	-4,603	-4,520	-3,280	784	231	-4,858	-10,205	-10,236	-8,825
AN	-6,289	-7,319	-7,105	-4,173	-4,161	-3,187	622	843	-4,871	-9,982	-10,295	-9,386
W	-7,143	-8,357	-5,959	-3,437	-3,176	-2,091	-237	-1,004	-4,244	-8,900	-9,529	-8,888
All	-6,220	-7,260	-6,449	-4,157	-4,073	-2,859	37	-397	-4,163	-8,374	-8,579	-7,252
35 no CVP SJIE												
C	-4,600	-5,015	-5,951	-3,557	-4,352	-3,601	-1,230	-832	-1,474	-2,302	-4,339	-2,886
D	-5,554	-6,818	-7,438	-4,587	-4,658	-3,282	-2,275	-1,859	-2,913	-5,499	-7,345	-5,213
BN	-5,854	-6,972	-6,868	-4,444	-4,590	-3,280	-1,526	-1,773	-4,503	-8,939	-9,472	-7,095
AN	-5,561	-7,038	-7,117	-4,173	-4,107	-3,158	-1,583	-1,637	-4,868	-9,566	-10,214	-9,223
W	-6,665	-8,204	-5,949	-3,423	-3,251	-2,110	-1,131	-2,108	-4,200	-8,959	-9,529	-8,912
All	-5,795	-7,003	-6,598	-3,990	-4,102	-2,963	-1,532	-1,725	-3,612	-7,184	-8,277	-6,805
45 no CVP SJIE												
C	-4,031	-5,034	-5,544	-3,479	-4,105	-3,374	-1,030	-560	-1,163	-1,887	-3,948	-2,707
D	-4,950	-6,245	-6,963	-4,795	-4,683	-3,254	-2,102	-1,071	-1,571	-3,964	-6,025	-4,926
BN	-5,275	-6,382	-6,685	-4,429	-4,452	-3,280	-1,476	-1,274	-3,490	-7,174	-7,980	-5,858
AN	-5,025	-6,573	-6,686	-4,170	-3,904	-3,201	-1,461	-1,527	-4,501	-9,026	-10,071	-8,176
W	-6,005	-7,603	-5,963	-3,424	-3,239	-2,059	-1,045	-1,993	-3,970	-8,503	-9,535	-8,777
All	-5,193	-6,527	-6,344	-4,021	-4,013	-2,910	-1,410	-1,362	-2,955	-6,233	-7,619	-6,307
55 w/WSAs no CVP SJIE												
C	-3,887	-4,722	-5,266	-3,223	-4,411	-3,417	-664	-456	-939	-1,442	-3,120	-3,125
D	-4,207	-6,079	-6,772	-4,632	-4,689	-3,299	-2,347	-883	-1,530	-3,761	-6,380	-5,006
BN	-5,263	-6,324	-6,478	-4,460	-4,477	-3,278	-1,637	-1,525	-3,410	-7,803	-8,412	-6,492
AN	-4,431	-6,059	-6,906	-4,152	-3,900	-3,136	-1,602	-1,485	-4,517	-8,526	-9,780	-7,301
W	-5,783	-7,346	-5,798	-3,429	-3,212	-2,105	-1,061	-1,925	-3,770	-8,476	-9,496	-8,541
All	-4,863	-6,288	-6,194	-3,949	-4,060	-2,933	-1,459	-1,326	-2,836	-6,168	-7,599	-6,337
55 no CVP SJIE												
C	-3,374	-4,327	-4,315	-3,848	-4,064	-2,560	-589	-350	-931	-1,464	-2,415	-2,783
D	-3,833	-5,222	-6,149	-4,584	-4,362	-3,084	-1,892	-599	-1,109	-2,069	-4,741	-4,392
BN	-4,220	-5,853	-5,846	-4,546	-4,177	-3,234	-1,655	-600	-1,556	-4,239	-6,804	-5,359
AN	-3,803	-5,749	-5,954	-4,157	-3,854	-3,072	-1,070	-1,372	-3,210	-6,037	-8,664	-5,125
W	-5,051	-6,618	-5,596	-3,421	-3,275	-2,001	-1,026	-1,880	-3,812	-8,068	-9,432	-8,190
All	-4,199	-5,685	-5,603	-4,054	-3,887	-2,699	-1,274	-1,041	-2,240	-4,687	-6,658	-5,557
65 no CVP SJIE												
C	-2,110	-3,452	-3,297	-3,312	-3,089	-1,797	-273	-332	-874	-1,573	-2,112	-2,661
D	-2,619	-4,191	-4,637	-4,076	-3,659	-2,463	-603	-10	-751	-1,722	-3,011	-3,535
BN	-3,287	-4,480	-4,379	-4,234	-3,681	-2,790	-1,090	272	-511	-1,538	-3,759	-4,201
AN	-2,224	-4,217	-3,999	-4,086	-4,026	-3,040	-891	-466	-1,030	-2,033	-5,519	-3,112
W	-3,677	-4,935	-4,745	-3,219	-3,004	-1,789	-721	-712	-2,267	-5,739	-9,044	-6,990
All	-2,938	-4,356	-4,326	-3,724	-3,417	-2,284	-714	-276	-1,218	-2,918	-5,141	-4,518

H1a4.3.5 Jones Pumping Plant (CVP)

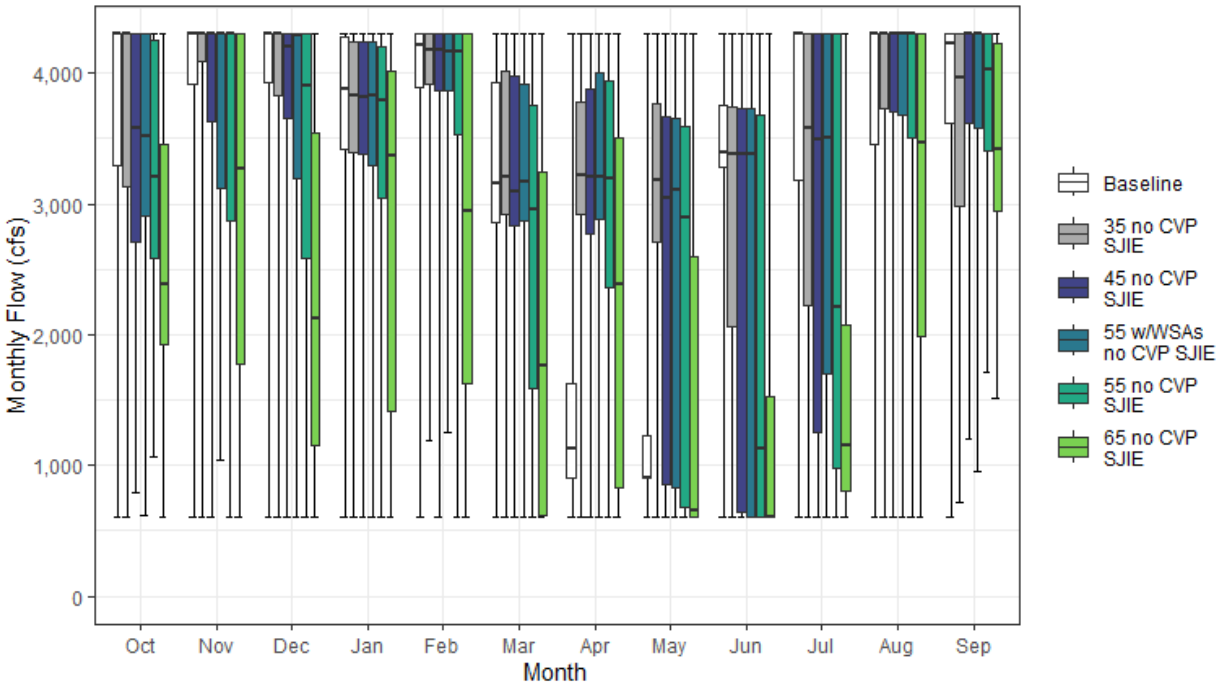

Figure H1a4-51. Jones Pumping Plant (CVP) Monthly Boxplot (cfs)

Table H1a4-101. Cumulative Distribution of Monthly Flow (cfs) — Jones Pumping Plant (CVP)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	600	600	600	600	600	600	600	608	604	604	600	606	1,047
10%	2,529	2,068	2,878	2,790	3,641	2,338	602	898	2,022	1,888	2,887	2,787	1,811
25%	3,296	3,918	3,929	3,424	3,895	2,858	898	899	3,279	3,187	3,450	3,611	2,272
50%	4,297	4,298	4,297	3,880	4,214	3,151	1,132	908	3,395	4,300	4,300	4,227	2,469
75%	4,300	4,300	4,298	4,273	4,297	3,931	1,628	1,230	3,758	4,300	4,300	4,300	2,638
90%	4,300	4,300	4,300	4,298	4,298	4,297	3,336	4,110	4,299	4,300	4,300	4,300	2,913
100%	4,300	4,300	4,300	4,300	4,300	4,299	4,300	4,300	4,300	4,300	4,300	4,300	3,089
Mean	3,662	3,824	3,920	3,660	4,001	3,173	1,568	1,537	3,314	3,566	3,764	3,768	2,398
35 no CVP SJIE													
0%	600	600	602	600	1,184	600	600	605	600	600	609	721	1,196
10%	2,092	2,043	3,184	2,552	3,377	2,152	2,141	755	610	650	3,014	2,410	1,958
25%	3,134	4,085	3,822	3,397	3,910	2,919	2,915	2,713	2,058	2,227	3,729	2,988	2,340
50%	4,297	4,298	4,297	3,824	4,171	3,206	3,223	3,185	3,378	3,584	4,298	3,970	2,639
75%	4,299	4,300	4,298	4,241	4,297	4,017	3,776	3,772	3,747	4,299	4,300	4,300	2,835
90%	4,300	4,300	4,300	4,298	4,298	4,297	4,299	4,178	4,299	4,300	4,300	4,300	2,988
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	3,073
Mean	3,593	3,817	3,942	3,594	3,967	3,258	3,169	2,976	2,898	3,118	3,875	3,615	2,523
45 no CVP SJIE													
0%	793	600	600	600	600	600	600	600	600	604	602	1,208	1,060
10%	2,031	2,092	2,691	2,587	2,934	1,712	1,121	632	607	664	2,671	2,761	1,696
25%	2,704	3,634	3,652	3,375	3,866	2,835	2,770	859	639	1,255	3,707	3,618	2,160
50%	3,585	4,298	4,197	3,814	4,172	3,094	3,206	3,043	3,385	3,498	4,299	4,298	2,647
75%	4,298	4,298	4,298	4,241	4,297	3,973	3,879	3,668	3,726	4,299	4,300	4,300	2,816
90%	4,300	4,300	4,299	4,298	4,298	4,298	4,299	4,223	4,298	4,300	4,300	4,300	2,964
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,299	4,300	4,300	4,300	4,300	3,045
Mean	3,387	3,759	3,798	3,549	3,857	3,121	3,084	2,670	2,634	2,912	3,837	3,817	2,438
55 w/WSAs no CVP SJIE													
0%	618	1,042	600	600	1,255	600	600	600	600	600	603	955	906
10%	2,217	1,659	1,383	2,016	3,291	1,528	1,067	609	604	608	2,344	2,702	1,707
25%	2,909	3,120	3,197	3,298	3,864	2,864	2,884	834	610	1,702	3,682	3,584	2,132
50%	3,517	4,297	4,283	3,824	4,162	3,174	3,205	3,108	3,385	3,504	4,299	4,298	2,600
75%	4,298	4,298	4,298	4,241	4,297	3,921	4,001	3,648	3,726	4,299	4,300	4,300	2,811
90%	4,300	4,300	4,299	4,298	4,298	4,298	4,299	4,113	4,298	4,300	4,300	4,300	2,969
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	3,101
Mean	3,439	3,634	3,583	3,510	3,914	3,136	3,099	2,582	2,593	2,937	3,745	3,811	2,411
55 no CVP SJIE													
0%	1,070	600	600	600	600	600	600	600	600	600	607	1,718	869
10%	2,126	1,711	1,532	1,899	1,964	603	679	604	600	603	1,951	2,554	1,374
25%	2,586	2,867	2,583	3,038	3,530	1,595	2,360	678	607	979	3,510	3,406	1,857
50%	3,202	4,297	3,909	3,785	4,161	2,955	3,196	2,899	1,126	2,214	4,298	4,029	2,284
75%	4,257	4,298	4,298	4,204	4,297	3,750	3,942	3,594	3,680	4,297	4,300	4,300	2,802
90%	4,299	4,299	4,298	4,298	4,298	4,297	4,299	4,133	4,298	4,300	4,300	4,300	2,906
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,299	4,300	4,300	4,300	4,300	3,022
Mean	3,239	3,524	3,363	3,449	3,619	2,707	2,965	2,355	2,190	2,467	3,642	3,737	2,247
65 no CVP SJIE													
0%	600	600	600	600	600	600	600	600	600	600	603	1,517	656
10%	1,390	1,200	600	615	830	600	604	600	600	606	1,380	2,547	1,103
25%	1,923	1,776	1,159	1,412	1,623	614	830	602	600	811	1,982	2,940	1,296
50%	2,379	3,274	2,124	3,371	2,949	1,769	2,388	657	610	1,159	3,464	3,416	1,702
75%	3,461	4,297	3,546	4,014	4,297	3,249	3,501	2,598	1,533	2,079	4,300	4,222	2,208
90%	4,297	4,298	4,298	4,297	4,298	4,297	4,299	3,309	3,534	4,298	4,300	4,300	2,588
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,299	4,300	4,300	4,300	4,300	3,036
Mean	2,622	2,963	2,285	2,835	2,835	2,103	2,333	1,565	1,315	1,680	3,091	3,458	1,753

Table H1a4-102. Water Year Average of Monthly Flows (cfs) — Jones Pumping Plant (CVP)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	3,139	3,035	3,549	2,944	3,579	2,459	925	1,007	1,615	1,461	2,351	2,359
D	3,702	3,852	4,021	3,622	3,993	2,873	1,247	1,097	3,329	3,626	3,766	3,983
BN	3,710	3,880	3,775	3,722	4,042	3,313	972	980	3,414	3,798	3,813	3,841
AN	3,544	3,749	4,017	3,840	4,144	3,495	1,321	924	3,715	4,066	4,229	3,993
W	3,927	4,218	4,098	3,957	4,147	3,557	2,623	2,739	3,986	4,298	4,300	4,225
All	3,662	3,824	3,920	3,660	4,001	3,173	1,568	1,537	3,314	3,566	3,764	3,768
35 no CVP SJIE												
C	3,279	3,029	3,634	2,797	3,622	2,703	1,664	1,099	910	1,144	2,935	2,655
D	3,603	3,885	4,143	3,499	4,034	2,815	3,164	2,551	2,111	2,509	3,857	3,682
BN	3,734	4,013	3,864	3,691	3,907	3,368	3,454	3,158	3,250	3,276	3,847	3,261
AN	3,391	3,564	3,797	3,837	4,144	3,640	3,604	3,576	3,714	3,714	4,142	3,817
W	3,746	4,165	4,065	3,930	4,070	3,655	3,622	3,934	3,985	4,278	4,300	4,223
All	3,593	3,817	3,942	3,594	3,967	3,258	3,169	2,976	2,898	3,118	3,875	3,615
45 no CVP SJIE												
C	2,930	2,976	3,393	2,568	3,258	2,243	1,394	845	756	906	2,460	2,527
D	3,390	3,693	3,806	3,509	3,936	2,779	2,980	1,818	1,493	2,071	3,938	4,065
BN	3,552	3,886	3,675	3,633	3,788	3,275	3,415	2,690	2,799	3,010	4,009	4,062
AN	3,148	3,646	3,566	3,846	4,144	3,662	3,565	3,495	3,655	3,603	4,056	3,667
W	3,619	4,191	4,178	3,929	4,046	3,526	3,658	3,926	3,961	4,261	4,300	4,229
All	3,387	3,759	3,798	3,549	3,857	3,121	3,084	2,670	2,634	2,912	3,837	3,817
55 w/WSAs no CVP SJIE												
C	3,198	2,625	2,783	2,394	3,636	2,301	1,052	711	608	716	2,174	3,172
D	3,218	3,727	3,637	3,510	3,962	2,821	3,163	1,500	1,334	2,498	3,761	4,090
BN	3,622	3,857	3,450	3,575	3,815	3,372	3,543	2,837	2,870	2,856	4,013	3,439
AN	2,984	3,382	3,671	3,846	4,144	3,546	3,568	3,391	3,686	3,553	4,049	3,759
W	3,797	4,065	4,021	3,929	3,997	3,497	3,673	3,889	3,961	4,250	4,278	4,203
All	3,439	3,634	3,583	3,510	3,914	3,136	3,099	2,582	2,593	2,937	3,745	3,811
55 no CVP SJIE												
C	2,952	2,824	2,487	2,625	2,829	1,495	943	634	638	717	1,733	2,629
D	3,119	3,338	3,353	3,101	3,430	2,287	2,789	1,296	961	1,314	3,721	3,749
BN	3,350	3,662	3,202	3,521	3,500	2,506	3,455	2,007	1,520	2,053	3,935	4,052
AN	3,151	3,435	3,066	3,846	4,144	3,482	3,405	3,275	3,147	3,143	3,932	3,534
W	3,447	3,980	4,059	3,938	4,044	3,480	3,687	3,901	3,962	4,239	4,300	4,201
All	3,239	3,524	3,363	3,449	3,619	2,707	2,965	2,355	2,190	2,467	3,642	3,737
65 no CVP SJIE												
C	2,436	2,806	1,661	2,035	1,790	1,059	636	617	606	922	1,590	2,621
D	2,436	2,855	2,091	2,571	2,264	1,337	1,384	639	615	1,146	2,442	3,532
BN	2,667	3,158	2,061	2,467	2,706	1,875	2,873	995	612	1,073	2,817	3,818
AN	2,348	2,951	1,924	3,714	3,926	2,938	3,050	2,359	1,360	1,522	3,801	2,843
W	2,940	3,008	3,046	3,337	3,455	3,033	3,305	2,793	2,634	2,924	4,257	3,869
All	2,622	2,963	2,285	2,835	2,835	2,103	2,333	1,565	1,315	1,680	3,091	3,458

H1a4.3.6 Banks Pumping Plant (SWP)

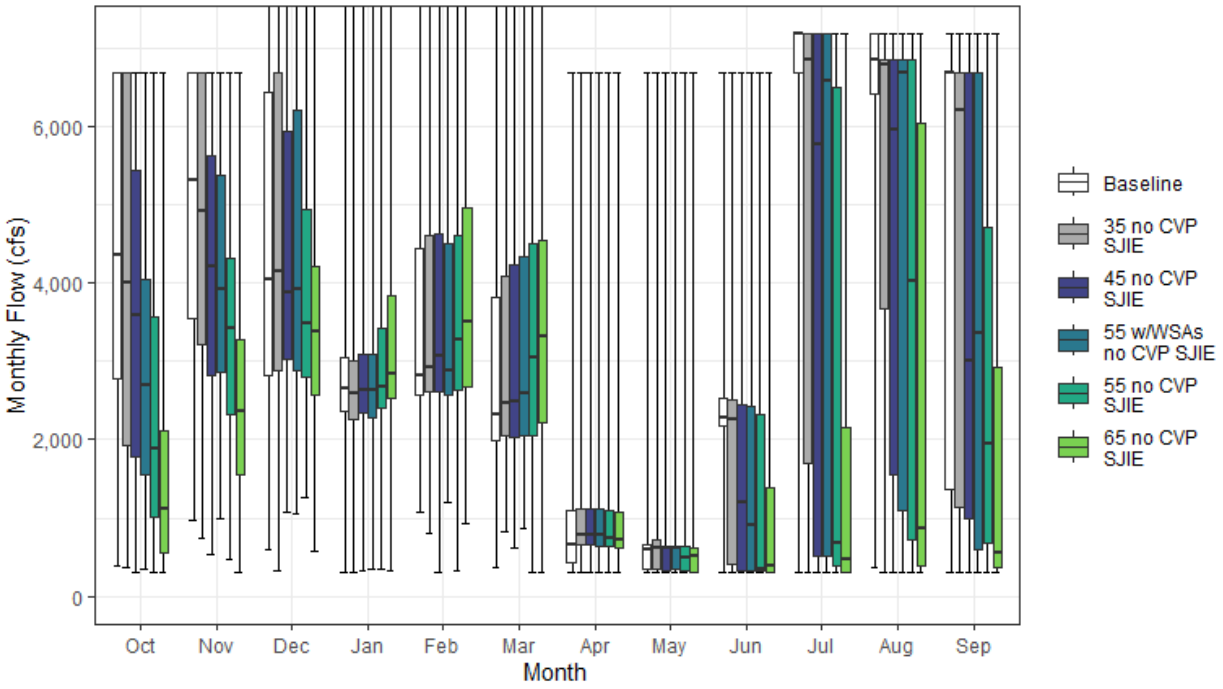

Figure H1a4-52. Banks Pumping Plant (SWP) Monthly Boxplot (cfs)

Table H1a4-103. Cumulative Distribution of Monthly Flow (cfs) — Banks Pumping Plant (SWP)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	381	971	604	311	1,065	359	301	301	315	302	377	310	827
10%	1,484	2,294	2,219	2,009	2,394	1,873	316	306	332	319	755	480	1,288
25%	2,785	3,546	2,810	2,371	2,575	1,984	427	351	2,167	6,680	6,406	1,372	2,184
50%	4,364	5,304	4,050	2,658	2,817	2,326	662	601	2,274	7,180	6,855	6,680	2,810
75%	6,680	6,680	6,430	3,053	4,441	3,813	1,099	662	2,524	7,180	7,180	6,680	3,290
90%	6,680	6,680	7,062	3,942	6,631	6,890	5,755	4,145	5,179	7,180	7,180	6,725	3,924
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,018
Mean	4,380	4,918	4,401	2,955	3,692	3,199	1,668	1,285	2,481	5,810	5,625	4,681	2,725
35 no CVP SJIE													
0%	366	737	331	307	811	817	300	305	300	304	301	305	675
10%	818	1,881	2,542	1,752	2,424	1,914	624	329	327	307	778	487	1,256
25%	1,927	3,211	2,876	2,250	2,610	2,045	656	355	408	1,704	3,668	1,142	1,646
50%	3,999	4,915	4,155	2,586	2,915	2,475	776	627	2,264	6,855	6,789	6,211	2,686
75%	6,680	6,680	6,674	3,002	4,599	4,092	1,111	719	2,498	7,180	6,855	6,680	3,283
90%	6,680	6,680	7,068	4,023	6,784	6,808	5,648	4,049	5,179	7,180	7,180	6,680	3,896
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,066
Mean	3,990	4,648	4,549	2,836	3,760	3,228	1,778	1,301	2,302	4,981	5,187	4,343	2,592
45 no CVP SJIE													
0%	308	524	1,073	317	313	619	301	300	300	302	311	305	786
10%	740	1,795	2,550	1,812	2,396	1,937	624	320	321	309	612	488	1,101
25%	1,786	2,824	3,034	2,333	2,617	2,032	648	335	335	517	1,549	997	1,442
50%	3,580	4,211	3,873	2,637	3,061	2,489	776	620	1,200	5,770	5,958	3,011	2,391
75%	5,428	5,622	5,944	3,091	4,617	4,241	1,111	632	2,445	7,180	6,855	6,680	3,173
90%	6,680	6,680	7,041	4,141	6,671	6,633	5,163	4,051	5,179	7,180	7,180	6,680	3,623
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,067
Mean	3,547	4,191	4,409	2,925	3,776	3,307	1,729	1,213	1,860	4,162	4,510	3,593	2,368
55 w/WSAs no CVP SJIE													
0%	345	990	1,045	338	1,201	872	302	307	300	304	300	307	782
10%	668	1,889	2,542	1,402	2,326	1,937	612	324	326	311	664	340	1,117
25%	1,552	2,857	2,872	2,280	2,564	2,047	641	339	333	509	1,087	590	1,430
50%	2,692	3,923	3,916	2,625	2,872	2,583	775	623	906	6,586	6,680	3,353	2,377
75%	4,041	5,368	6,196	3,082	4,492	4,335	1,109	632	2,419	7,180	6,855	6,680	3,080
90%	6,680	6,680	7,040	3,975	6,671	6,635	5,083	3,964	5,037	7,180	7,180	6,680	3,649
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,069
Mean	3,148	4,076	4,468	2,887	3,768	3,317	1,720	1,229	1,768	4,101	4,591	3,631	2,337
55 no CVP SJIE													
0%	304	464	1,265	340	329	303	305	300	300	300	300	303	667
10%	405	1,516	2,448	2,082	2,357	1,921	485	306	302	304	324	412	1,006
25%	1,005	2,313	2,800	2,413	2,632	2,060	634	327	324	396	729	669	1,231
50%	1,874	3,420	3,481	2,675	3,267	3,044	741	483	339	675	4,016	1,941	1,771
75%	3,569	4,322	4,936	3,429	4,611	4,502	1,094	629	2,314	6,496	6,855	4,712	2,924
90%	6,680	6,560	6,961	4,303	6,671	6,031	5,059	3,973	4,722	7,180	6,884	6,680	3,462
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,070
Mean	2,615	3,520	4,031	3,070	3,876	3,490	1,701	1,177	1,529	2,937	3,677	2,841	2,079
65 no CVP SJIE													
0%	303	304	584	319	928	301	303	300	300	300	300	300	549
10%	326	948	2,034	2,183	2,000	1,639	512	300	300	301	307	314	884
25%	563	1,543	2,566	2,523	2,682	2,221	621	312	301	309	392	374	1,064
50%	1,125	2,363	3,389	2,848	3,496	3,325	723	508	389	482	859	546	1,314
75%	2,103	3,278	4,215	3,845	4,950	4,549	1,070	617	1,394	2,146	6,049	2,923	2,410
90%	5,613	5,260	6,742	4,985	7,844	6,805	5,234	3,832	3,973	6,943	6,855	6,680	3,308
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,062
Mean	1,822	2,644	3,752	3,355	4,151	3,639	1,718	1,113	1,302	1,810	2,603	1,987	1,800

Table H1a4-104. Water Year Average of Monthly Flows (cfs) — Banks Pumping Plant (SWP)

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	3,019	3,604	3,269	2,138	2,548	2,073	456	385	558	1,169	1,353	1,144
D	4,108	4,464	4,359	2,645	2,585	2,021	532	537	1,817	5,934	4,977	2,277
BN	4,274	4,685	4,693	2,516	3,388	2,489	706	557	2,338	7,062	7,119	6,139
AN	4,423	5,003	4,922	2,775	3,894	3,310	1,413	577	2,753	6,999	6,940	6,722
W	5,354	6,065	4,642	3,967	5,227	5,068	3,860	3,057	3,975	6,927	6,908	6,590
All	4,380	4,918	4,401	2,955	3,692	3,199	1,668	1,285	2,481	5,810	5,625	4,681
35 no CVP SJIE												
C	2,752	2,891	3,456	1,887	2,485	2,419	664	399	596	802	1,268	619
D	3,656	4,219	4,852	2,405	2,560	2,153	789	521	1,239	3,130	3,812	2,248
BN	3,932	4,408	4,550	2,367	3,610	2,433	749	570	2,119	6,222	6,257	4,822
AN	3,783	4,895	5,155	2,775	3,830	3,132	1,534	643	2,750	6,909	6,940	6,719
W	5,016	5,954	4,665	3,979	5,388	4,990	3,845	3,080	3,928	7,011	6,908	6,612
All	3,990	4,648	4,549	2,836	3,760	3,228	1,778	1,301	2,302	4,981	5,187	4,343
45 no CVP SJIE												
C	2,483	2,958	3,259	2,042	2,588	2,630	714	354	446	576	1,316	559
D	3,212	3,809	4,660	2,618	2,686	2,159	769	399	405	1,914	2,301	1,541
BN	3,491	3,896	4,528	2,437	3,582	2,527	732	489	1,473	4,588	4,481	2,643
AN	3,455	4,281	4,911	2,757	3,607	3,159	1,456	608	2,413	6,442	6,871	5,739
W	4,431	5,279	4,564	3,997	5,400	5,064	3,713	2,970	3,704	6,540	6,908	6,459
All	3,547	4,191	4,409	2,925	3,776	3,307	1,729	1,213	1,860	4,162	4,510	3,593
55 w/WSAs no CVP SJIE												
C	2,068	2,977	3,554	1,924	2,545	2,619	663	367	326	311	728	359
D	2,583	3,623	4,625	2,445	2,667	2,166	772	488	519	1,308	2,862	1,612
BN	3,421	3,866	4,541	2,531	3,578	2,427	716	547	1,315	5,465	4,944	3,961
AN	2,991	4,013	5,081	2,771	3,604	3,203	1,507	627	2,399	6,003	6,563	4,687
W	4,029	5,154	4,550	3,996	5,415	5,142	3,701	2,905	3,488	6,547	6,908	6,226
All	3,148	4,076	4,468	2,887	3,768	3,317	1,720	1,229	1,768	4,101	4,591	3,631
55 no CVP SJIE												
C	1,749	2,366	2,820	2,379	2,972	2,484	694	335	315	304	391	527
D	2,278	3,066	4,219	2,815	2,839	2,464	730	402	436	633	1,127	1,237
BN	2,541	3,536	4,088	2,687	3,574	3,245	882	426	659	2,375	3,283	2,094
AN	2,129	3,582	4,580	2,765	3,555	3,197	1,205	652	1,523	3,670	5,472	2,527
W	3,566	4,434	4,285	3,988	5,439	5,050	3,669	2,880	3,532	6,095	6,832	5,852
All	2,615	3,520	4,031	3,070	3,876	3,490	1,701	1,177	1,529	2,937	3,677	2,841
65 no CVP SJIE												
C	900	1,451	2,557	2,417	2,952	2,082	655	332	301	303	313	460
D	1,571	2,405	3,864	2,813	3,239	2,733	736	422	396	433	549	512
BN	2,194	2,584	3,671	3,418	3,824	3,389	841	457	436	428	1,119	1,062
AN	1,169	2,450	3,685	2,866	3,972	3,706	1,363	549	952	944	2,200	1,008
W	2,524	3,571	4,384	4,407	5,738	5,265	3,704	2,677	3,187	4,846	6,431	4,859
All	1,822	2,644	3,752	3,355	4,151	3,639	1,718	1,113	1,302	1,810	2,603	1,987

H1a4.4 Interbasin Diversions

H1a4.4.1 Bowman-Spaulding Conduit

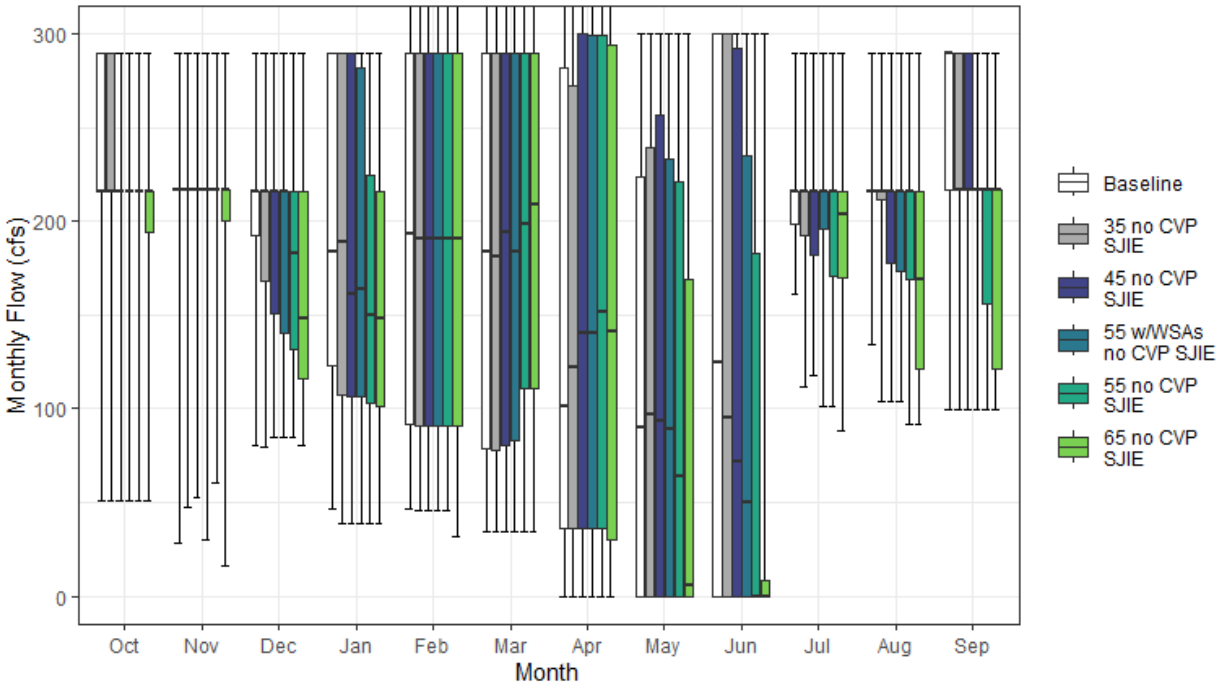

Figure H1a4-53. Bowman-Spaulding Conduit Monthly Boxplot (cfs)

Table H1a4-105. Cumulative Distribution of Monthly Flow (cfs) — Bowman-Spaulding Conduit

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	51	28	81	47	47	34	0	0	0	161	134	100	73
10%	163	217	127	72	71	47	0	0	0	176	169	126	90
25%	216	217	192	123	91	79	36	0	0	198	216	217	102
50%	216	217	216	184	193	184	102	90	124	216	216	290	134
75%	290	217	216	290	290	290	282	224	300	216	216	290	179
90%	290	217	290	290	313	303	302	300	300	216	290	290	197
100%	290	290	290	290	325	325	325	300	300	290	290	290	207
Mean	232	220	214	191	190	178	143	122	145	208	224	238	139
35 no CVP SJIE													
0%	51	47	80	39	45	34	0	0	0	111	104	100	67
10%	121	203	127	64	72	47	0	0	0	171	134	100	83
25%	216	217	168	107	91	78	36	0	0	192	211	217	99
50%	216	217	216	189	191	181	123	97	96	216	216	217	130
75%	290	217	216	290	290	290	273	240	300	216	216	290	176
90%	290	217	290	290	314	302	302	300	300	216	290	290	192
100%	290	290	290	290	325	325	325	300	300	290	290	290	213
Mean	222	217	202	185	191	178	145	122	137	205	217	221	135
45 no CVP SJIE													
0%	51	52	85	39	45	34	0	0	0	118	104	100	65
10%	108	186	120	67	73	47	0	0	0	162	134	100	79
25%	216	217	151	106	91	80	36	0	0	182	177	217	96
50%	216	217	216	161	191	194	140	94	71	216	216	217	125
75%	216	217	216	290	290	290	300	257	292	216	216	290	167
90%	290	217	290	290	312	299	300	300	300	216	290	290	192
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	211	212	196	179	190	179	153	121	123	202	213	216	132
55 w/WSAs no CVP SJIE													
0%	51	30	85	39	45	34	0	0	0	101	104	100	67
10%	122	191	108	67	72	47	0	0	0	161	134	100	80
25%	216	217	140	107	91	83	36	0	0	196	173	217	96
50%	216	217	216	163	191	184	140	89	50	216	216	217	128
75%	216	217	216	282	290	290	299	233	235	216	216	217	164
90%	290	217	290	290	310	290	300	300	300	216	290	290	187
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	212	212	192	177	189	179	153	116	116	201	207	211	131
55 no CVP SJIE													
0%	51	61	85	39	45	34	0	0	0	101	92	100	64
10%	84	176	108	62	71	49	0	0	0	147	106	100	74
25%	216	217	131	103	91	111	36	0	0	171	169	156	90
50%	216	217	183	150	191	199	152	64	0	216	216	217	114
75%	216	217	216	225	290	290	299	221	183	216	216	217	163
90%	290	217	216	290	307	290	300	300	300	216	216	290	184
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	205	209	179	172	188	181	156	107	85	195	197	197	125
65 no CVP SJIE													
0%	51	16	80	39	32	34	0	0	0	88	92	100	63
10%	75	164	96	64	71	61	0	0	0	130	104	100	71
25%	194	200	116	101	91	111	30	0	0	170	121	121	81
50%	216	217	148	148	190	209	142	6	0	204	169	217	108
75%	216	217	216	216	290	290	294	169	9	216	216	217	145
90%	216	217	216	290	307	318	300	300	169	216	216	217	170
100%	290	290	290	290	325	325	325	300	300	290	290	290	190
Mean	189	203	163	162	187	188	150	84	38	188	171	179	115

Table H1a4-106. Water Year Average of Monthly Flows (cfs) — Bowman-Spaulding Conduit

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	216	222	183	117	99	94	10	0	3	201	181	161
D	222	218	200	149	124	103	55	33	50	206	197	204
BN	234	216	202	173	151	146	103	99	147	202	220	256
AN	223	203	215	208	231	203	192	195	208	202	235	272
W	251	229	248	265	296	290	284	237	262	218	265	280
All	232	220	214	191	190	178	143	122	145	208	224	238
35 no CVP SJIE												
C	195	219	175	107	95	93	10	0	1	199	154	139
D	214	209	192	144	129	104	62	26	42	199	191	188
BN	241	217	190	164	159	147	103	100	131	208	217	231
AN	214	200	201	205	226	196	196	190	191	191	235	253
W	233	229	232	261	295	289	286	245	261	216	263	270
All	222	217	202	185	191	178	145	122	137	205	217	221
45 no CVP SJIE												
C	182	200	159	107	96	93	10	0	0	191	150	139
D	195	207	188	139	126	105	62	25	25	206	187	183
BN	227	215	183	152	156	154	123	90	105	201	209	227
AN	200	201	204	198	226	193	215	177	178	186	229	247
W	231	224	226	256	294	289	291	252	251	212	260	264
All	211	212	196	179	190	179	153	121	123	202	213	216
55 w/WSAs no CVP SJIE												
C	176	205	159	110	96	95	9	0	0	198	153	139
D	199	206	184	133	127	106	63	24	36	200	189	188
BN	237	217	174	153	155	153	123	86	104	201	208	230
AN	203	199	197	188	227	193	215	171	164	194	222	235
W	230	224	224	256	291	287	291	242	224	208	243	243
All	212	212	192	177	189	179	153	116	116	201	207	211
55 no CVP SJIE												
C	180	195	142	105	97	103	8	0	0	166	134	126
D	185	207	169	128	117	104	64	11	3	199	176	172
BN	219	213	164	143	156	163	128	64	30	195	201	203
AN	205	195	182	181	229	194	226	151	106	198	216	223
W	224	220	213	255	291	287	292	242	218	205	237	239
All	205	209	179	172	188	181	156	107	85	195	197	197
65 no CVP SJIE												
C	164	197	123	107	98	102	7	0	0	159	112	115
D	178	200	147	113	119	107	58	4	0	192	134	146
BN	199	203	146	139	153	172	128	33	0	196	173	190
AN	174	191	163	165	229	216	218	100	3	189	197	215
W	209	213	205	240	290	291	282	213	123	195	217	217
All	189	203	163	162	187	188	150	84	38	188	171	179

H1a4.4.2 Drum Canal

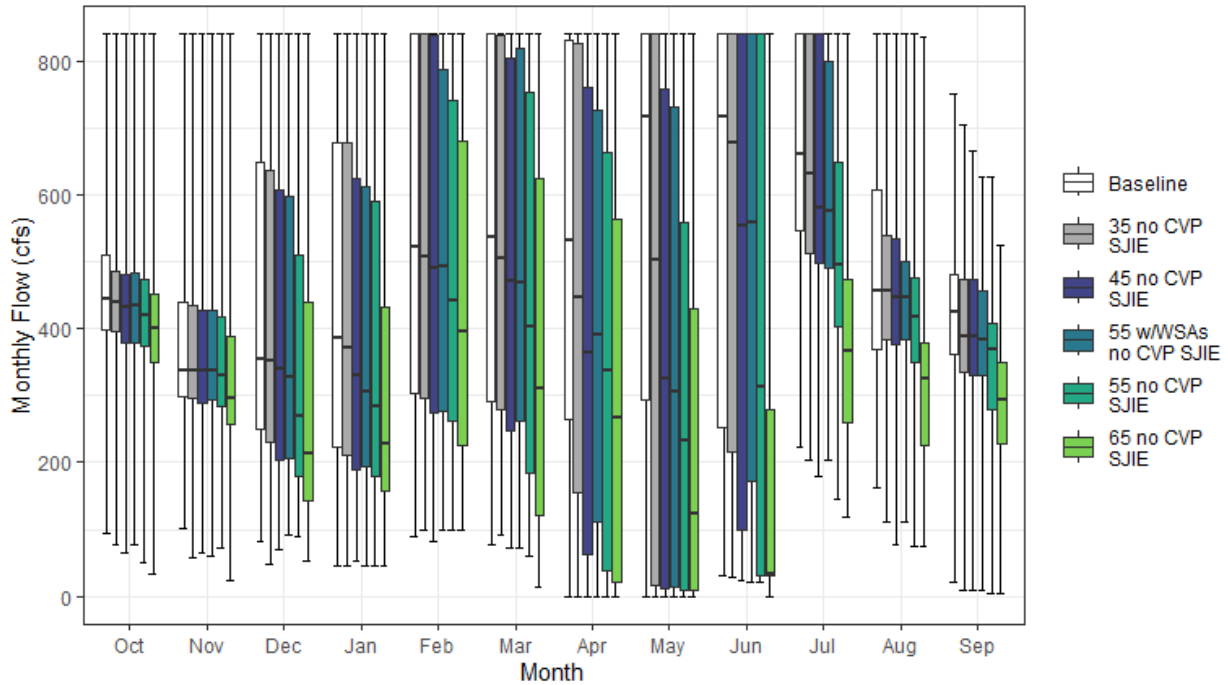

Figure H1a4-54. Drum Canal Monthly Boxplot (cfs)

Table H1a4-107. Cumulative Distribution of Monthly Flow (cfs) — Drum Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	94	101	82	44	89	77	0	0	31	223	162	22	87
10%	349	272	170	131	176	187	128	16	86	349	265	114	180
25%	398	298	249	222	303	290	264	294	251	545	369	362	257
50%	444	338	354	385	521	537	533	716	717	660	457	424	355
75%	510	440	648	678	840	840	831	840	840	840	608	481	475
90%	567	674	840	840	840	840	840	840	840	840	826	550	521
100%	840	840	840	840	840	840	840	840	840	840	840	750	576
Mean	450	403	441	444	522	522	503	557	577	653	497	395	360
35 no CVP SJIE													
0%	77	58	48	44	98	91	0	0	29	203	112	9	86
10%	348	267	147	121	171	186	6	6	33	265	202	235	158
25%	395	295	230	210	295	279	154	16	215	512	383	335	228
50%	439	337	351	370	508	504	447	502	677	632	456	388	349
75%	485	435	637	678	840	837	825	840	840	840	538	474	465
90%	567	656	840	840	840	840	840	840	840	840	795	549	513
100%	840	840	840	840	840	840	840	840	840	840	840	704	565
Mean	444	395	427	436	519	512	452	462	549	624	484	385	343
45 no CVP SJIE													
0%	64	64	69	54	82	72	0	0	23	178	77	9	83
10%	314	253	147	106	168	141	0	3	31	256	210	181	145
25%	378	290	203	189	274	247	63	11	99	497	376	330	205
50%	431	336	340	330	490	472	364	326	553	580	447	387	322
75%	481	426	606	624	837	804	760	757	840	840	533	472	459
90%	559	615	840	840	840	840	840	840	840	840	720	536	512
100%	840	840	840	840	840	840	840	840	840	840	840	665	562
Mean	431	385	410	420	509	488	405	382	506	590	464	378	324
55 w/WSAs no CVP SJIE													
0%	77	59	91	44	98	72	0	0	22	203	111	9	86
10%	340	258	142	106	165	146	0	7	32	272	213	236	154
25%	378	292	206	194	276	261	112	14	173	491	384	331	215
50%	435	337	326	305	493	467	391	307	559	575	446	383	326
75%	482	426	597	613	787	820	726	730	840	798	500	456	435
90%	532	603	840	840	840	840	840	840	840	840	610	511	497
100%	840	840	840	840	840	840	840	840	840	840	840	627	556
Mean	432	384	404	417	509	489	413	374	507	585	445	371	322
55 no CVP SJIE													
0%	50	73	89	45	98	60	0	0	20	146	75	5	76
10%	257	242	130	102	153	120	0	1	31	216	164	141	124
25%	373	284	178	180	262	184	39	10	32	402	349	280	171
50%	421	329	268	282	442	402	336	233	312	496	417	369	281
75%	472	418	510	589	740	754	662	557	840	649	475	407	418
90%	564	549	840	840	840	840	840	840	840	840	572	474	483
100%	840	840	840	840	840	840	840	840	840	840	840	627	550
Mean	418	369	368	388	485	446	370	315	395	512	410	342	291
65 no CVP SJIE													
0%	33	24	54	44	98	15	0	0	0	119	74	5	69
10%	235	221	103	83	127	74	0	1	23	194	120	35	99
25%	350	258	142	158	224	121	22	9	31	259	226	228	135
50%	401	296	213	228	397	310	267	123	33	365	325	294	212
75%	452	388	438	433	681	624	563	430	280	472	377	350	346
90%	517	493	741	840	840	824	826	754	612	561	458	385	413
100%	840	840	840	840	840	840	840	840	840	840	836	525	527
Mean	388	337	317	331	446	383	324	249	192	381	308	269	237

Table H1a4-108. Water Year Average of Monthly Flows (cfs) — Drum Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	430	337	292	187	296	279	120	107	234	404	285	168
D	416	372	345	264	381	336	356	357	400	558	373	350
BN	426	348	321	377	405	472	495	611	608	689	480	415
AN	435	400	478	567	626	655	636	797	686	710	534	465
W	506	497	651	704	778	767	768	814	827	811	697	508
All	450	403	441	444	522	522	503	557	577	653	497	395
35 no CVP SJIE												
C	423	335	282	176	282	253	39	29	172	349	258	182
D	409	367	335	257	384	330	259	178	360	509	382	352
BN	441	344	307	369	410	462	431	465	579	667	464	393
AN	430	387	451	564	613	645	613	729	669	689	533	439
W	489	485	639	698	776	764	763	792	821	803	671	489
All	444	395	427	436	519	512	452	462	549	624	484	385
45 no CVP SJIE												
C	408	310	249	169	258	199	12	8	112	326	242	174
D	389	358	323	248	370	300	163	112	259	480	382	344
BN	427	336	298	340	399	441	363	302	553	605	436	391
AN	413	382	429	541	602	629	578	564	647	659	507	437
W	483	476	625	682	777	752	749	758	809	774	643	479
All	431	385	410	420	509	488	405	382	506	590	464	378
55 w/WSAs no CVP SJIE												
C	404	318	262	176	282	241	38	27	173	349	257	181
D	395	357	317	239	365	301	209	146	321	497	390	354
BN	436	336	291	339	397	417	360	320	552	616	436	395
AN	420	380	427	528	600	632	570	527	615	648	473	428
W	478	470	604	680	771	749	732	701	750	731	579	445
All	432	384	404	417	509	489	413	374	507	585	445	371
55 no CVP SJIE												
C	395	289	208	154	220	151	8	7	50	269	210	141
D	372	342	288	209	326	237	113	64	129	398	351	317
BN	418	327	261	298	387	387	314	211	371	465	401	351
AN	414	375	360	488	589	587	520	414	500	607	447	405
W	465	454	584	661	765	736	727	690	748	718	551	437
All	418	369	368	388	485	446	370	315	395	512	410	342
65 no CVP SJIE												
C	355	271	161	135	175	100	7	8	27	208	149	93
D	347	306	237	157	263	158	91	36	29	286	233	245
BN	391	300	221	233	345	314	259	129	106	380	312	293
AN	371	346	302	418	558	524	402	284	168	402	379	353
W	440	416	526	589	745	684	675	597	465	537	419	333
All	388	337	317	331	446	383	324	249	192	381	308	269

H1a4.4.3 Hell Hole Tunnel

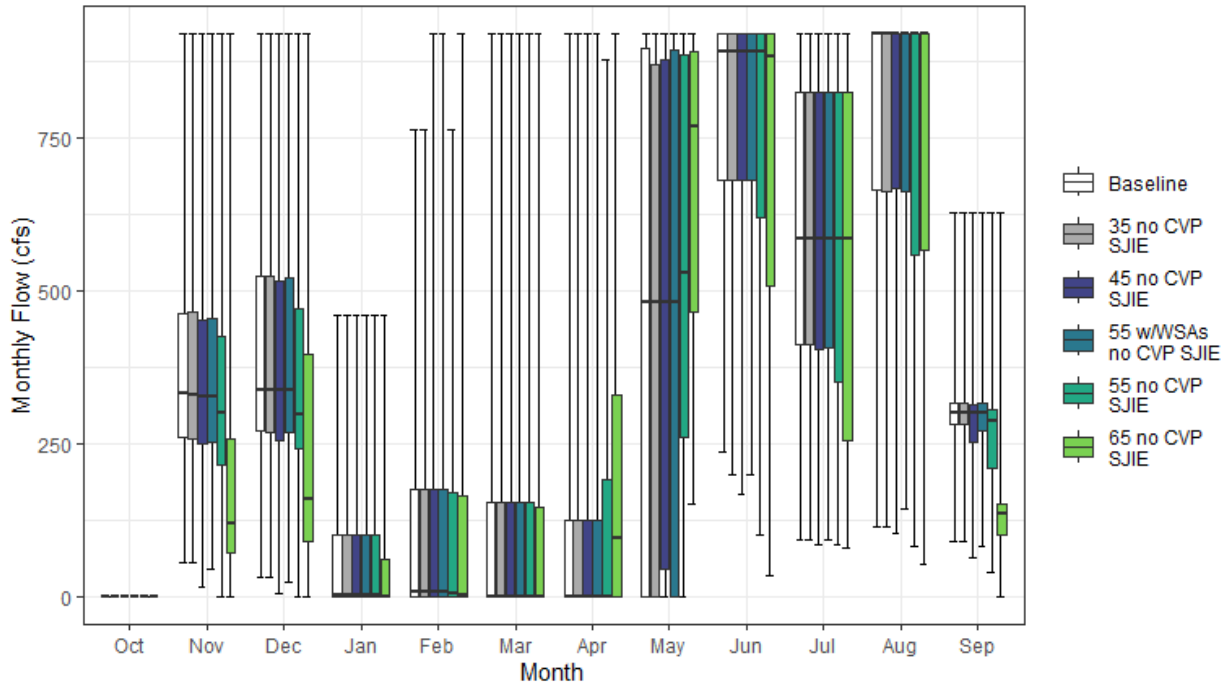

Figure H1a4-55. Hell Hole Tunnel Monthly Boxplot (cfs)

Table H1a4-109. Cumulative Distribution of Monthly Flow (cfs) — Hell Hole Tunnel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	55	32	0	0	0	0	0	237	93	114	90	48
10%	0	199	217	0	0	0	0	0	401	290	281	216	117
25%	0	260	270	0	0	0	0	0	680	411	664	280	167
50%	0	332	337	1	6	0	0	481	890	584	920	300	245
75%	0	463	524	99	174	153	124	896	920	825	920	315	319
90%	0	676	883	245	297	388	486	920	920	884	920	396	375
100%	0	920	920	460	764	920	920	920	920	920	920	627	503
Mean	0	387	433	68	103	105	121	465	773	600	764	300	249
35 no CVP SJIE													
0%	0	55	32	0	0	0	0	0	198	93	114	90	48
10%	0	175	216	0	0	0	0	0	401	290	281	176	118
25%	0	258	268	0	0	0	0	0	680	411	663	280	167
50%	0	330	337	1	6	0	0	480	890	584	920	300	245
75%	0	464	524	99	174	153	124	869	920	825	920	315	318
90%	0	676	920	245	297	388	486	920	920	884	920	396	374
100%	0	920	920	460	764	920	920	920	920	920	920	627	502
Mean	0	381	432	68	103	105	121	462	773	600	765	297	249
45 no CVP SJIE													
0%	0	16	5	0	0	0	0	0	168	86	104	63	51
10%	0	175	186	0	0	0	0	0	394	290	281	144	115
25%	0	249	253	0	0	0	0	46	680	404	667	252	168
50%	0	327	337	1	6	0	0	480	890	584	920	299	244
75%	0	450	516	99	174	153	124	878	920	825	920	314	318
90%	0	654	853	245	297	388	486	920	920	884	920	393	374
100%	0	920	920	460	920	920	920	920	920	920	920	627	507
Mean	0	375	418	68	104	105	121	475	771	598	764	289	248
55 w/WSAs no CVP SJIE													
0%	0	44	24	0	0	0	0	0	198	93	142	81	47
10%	0	189	216	0	0	0	0	0	399	290	281	176	116
25%	0	253	268	0	0	0	0	0	680	406	663	270	167
50%	0	327	337	1	6	0	0	480	890	584	920	300	245
75%	0	454	520	99	174	153	124	894	920	825	920	315	318
90%	0	666	882	245	297	388	486	920	920	884	920	396	377
100%	0	920	920	460	920	920	920	920	920	920	920	627	507
Mean	0	379	428	68	104	105	121	469	772	599	764	295	249
55 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	101	83	81	39	54
10%	0	86	119	0	0	0	0	112	356	239	234	121	108
25%	0	215	242	0	0	0	0	261	621	351	558	209	164
50%	0	300	298	1	4	0	0	528	892	584	920	287	241
75%	0	425	471	99	169	153	190	885	920	825	920	304	315
90%	0	650	903	245	297	388	486	920	920	884	920	323	363
100%	0	920	920	460	764	920	878	920	920	920	920	627	492
Mean	0	341	390	66	99	104	132	542	755	582	744	252	243
65 no CVP SJIE													
0%	0	0	0	0	0	0	0	151	33	78	54	0	60
10%	0	29	5	0	0	0	0	364	202	139	139	44	106
25%	0	70	91	0	0	0	0	464	507	255	567	102	156
50%	0	119	158	0	1	0	95	768	882	584	920	135	215
75%	0	258	394	60	165	146	330	890	920	825	920	151	288
90%	0	552	821	234	294	388	498	920	920	884	920	167	340
100%	0	920	920	460	920	920	920	920	920	920	920	627	492
Mean	0	214	279	57	95	103	190	677	714	539	723	128	226

Table H1a4-110. Water Year Average of Monthly Flows (cfs) — Hell Hole Tunnel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	0	290	314	2	0	0	0	0	471	290	331	270
D	0	382	328	27	24	7	15	183	702	466	689	306
BN	0	365	367	48	67	34	52	442	823	618	872	312
AN	0	372	424	72	167	91	112	709	882	672	920	265
W	0	460	618	144	212	282	311	837	910	824	920	317
All	0	387	433	68	103	105	121	465	773	600	764	300
35 no CVP SJIE												
C	0	284	310	2	0	0	0	15	469	287	336	265
D	0	377	325	27	24	7	15	185	702	466	689	301
BN	0	367	368	48	67	34	52	437	822	618	872	312
AN	0	355	421	72	167	91	112	701	882	672	920	261
W	0	456	619	144	212	282	311	823	913	824	920	316
All	0	381	432	68	103	105	121	462	773	600	765	297
45 no CVP SJIE												
C	0	274	299	2	0	0	0	63	459	279	337	253
D	0	367	309	27	24	7	15	191	699	464	686	294
BN	0	364	363	48	67	34	52	446	822	617	868	309
AN	0	356	399	72	167	91	112	715	882	672	920	251
W	0	449	604	144	217	282	311	826	912	824	920	307
All	0	375	418	68	104	105	121	475	771	598	764	289
55 w/WSAs no CVP SJIE												
C	0	280	307	2	0	0	0	22	467	285	336	262
D	0	375	322	27	24	7	15	181	701	466	689	300
BN	0	361	365	48	67	34	52	446	821	617	867	311
AN	0	362	419	72	167	91	112	706	882	672	920	259
W	0	453	613	144	217	282	311	838	911	824	920	314
All	0	379	428	68	104	105	121	469	772	599	764	295
55 no CVP SJIE												
C	0	212	237	2	0	0	52	244	411	235	305	194
D	0	330	277	27	24	7	27	348	668	429	628	248
BN	0	339	348	46	65	34	60	463	815	610	861	294
AN	0	327	363	72	154	91	112	718	882	672	920	223
W	0	426	591	138	206	279	306	823	913	824	920	271
All	0	341	390	66	99	104	132	542	755	582	744	252
65 no CVP SJIE												
C	0	134	147	2	3	6	193	513	312	159	226	102
D	0	199	166	21	22	7	140	616	590	335	600	124
BN	0	187	216	46	62	34	119	592	784	571	847	160
AN	0	200	241	62	135	90	121	693	877	662	920	112
W	0	289	488	118	202	275	298	855	908	823	920	132
All	0	214	279	57	95	103	190	677	714	539	723	128

H1a4.4.4 Jenkinson Lake Camino Conduit

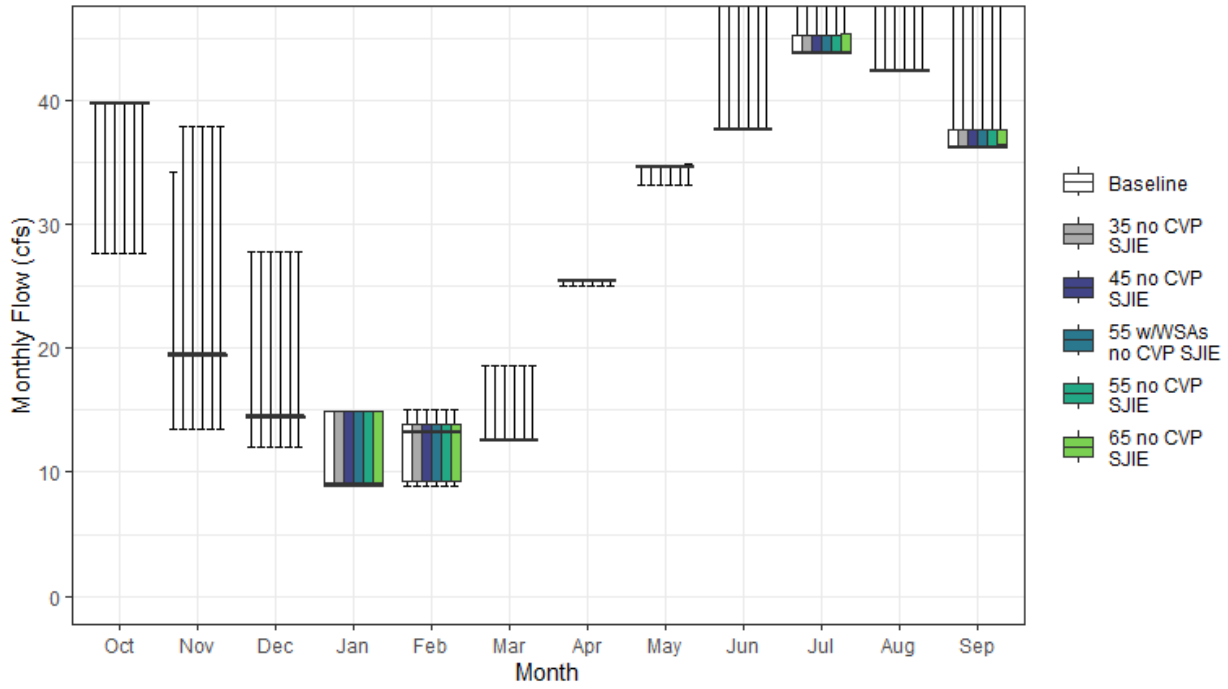

Figure H1a4-56. Jenkinson Lake Camino Conduit Monthly Boxplot (cfs)

Table H1a4-111. Cumulative Distribution of Monthly Flow (cfs) — Jenkinson Lake Camino Conduit

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	34	28	15	15	19	25	35	51	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	20
35 no CVP SJIE													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	38	28	15	15	19	25	35	51	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	20
45 no CVP SJIE													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	38	28	15	15	19	25	35	51	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	20
55 w/WSAs no CVP SJIE													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	38	28	15	15	19	25	35	51	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	20
55 no CVP SJIE													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	38	28	15	15	19	25	35	51	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	20
65 no CVP SJIE													
0%	28	13	12	9	9	13	25	33	38	44	42	36	18
10%	38	18	14	9	9	13	25	35	38	44	42	36	20
25%	40	19	14	9	9	13	25	35	38	44	42	36	20
50%	40	19	14	9	13	13	25	35	38	44	42	36	20
75%	40	19	14	15	14	13	25	35	38	45	42	38	21
90%	40	19	28	15	14	13	25	35	38	61	42	45	22
100%	40	38	28	15	15	19	25	35	56	67	67	57	24
Mean	39	19	16	11	12	13	25	35	38	48	44	39	21

Table H1a4-112. Water Year Average of Monthly Flows (cfs) — Jenkinson Lake Camino Conduit

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	39	19	15	12	10	13	25	34	38	50	45	38
D	38	19	15	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	38	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39
35 no CVP SJIE												
C	39	19	15	11	10	13	25	34	38	50	45	38
D	38	19	14	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	38	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39
45 no CVP SJIE												
C	39	19	15	11	10	13	25	34	38	50	45	38
D	38	19	14	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	38	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39
55 w/WSAs no CVP SJIE												
C	39	19	15	11	10	13	25	34	38	50	45	38
D	38	19	14	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	38	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39
55 no CVP SJIE												
C	39	19	15	11	10	13	25	34	38	50	45	38
D	38	19	14	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	38	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39
65 no CVP SJIE												
C	39	19	15	11	10	13	25	35	40	50	45	38
D	38	19	14	9	10	13	25	35	38	48	44	39
BN	39	19	16	10	11	13	25	35	39	47	44	40
AN	39	20	15	12	12	13	25	35	38	54	44	43
W	40	20	18	13	14	13	25	35	38	44	42	37
All	39	19	16	11	12	13	25	35	38	48	44	39

H1a4.4.5 Milton-Bowman Tunnel

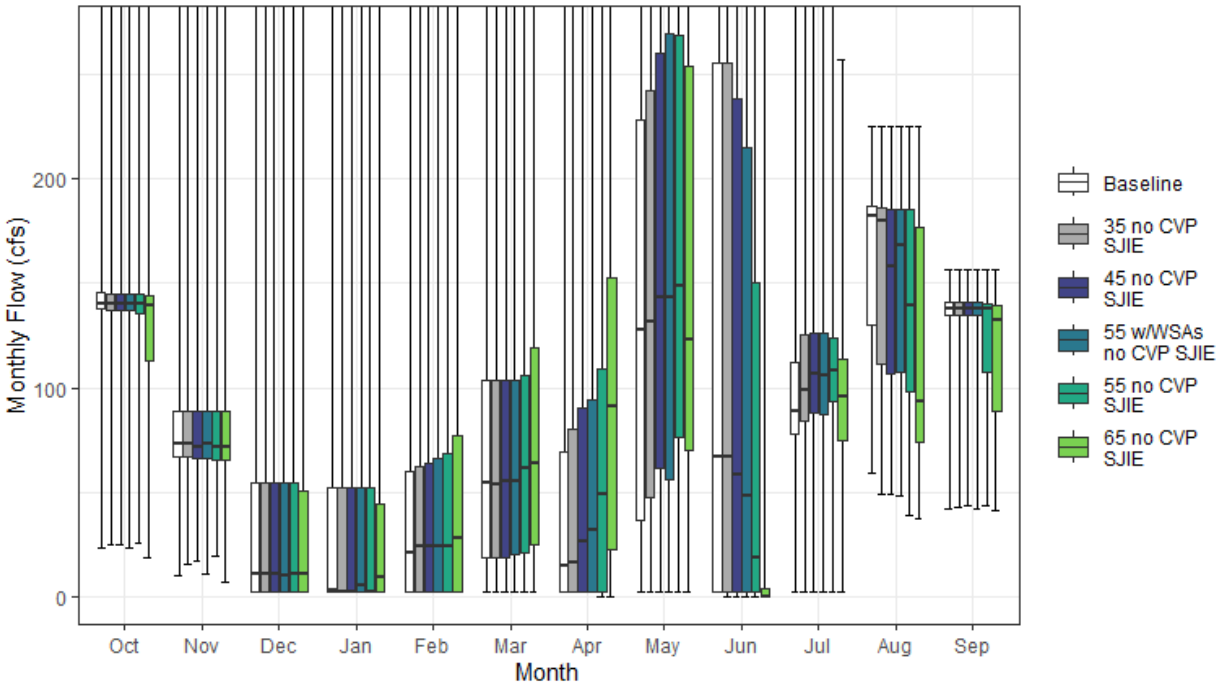

Figure H1a4-57. Milton-Bowman Tunnel Monthly Boxplot (cfs)

Table H1a4-113. Cumulative Distribution of Monthly Flow (cfs) — Milton-Bowman Tunnel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	23	10	2	2	2	2	2	2	2	2	59	42	25
10%	101	63	2	2	2	2	2	2	2	71	88	89	30
25%	137	67	2	2	2	18	2	36	2	78	130	135	43
50%	140	73	10	3	21	55	14	128	67	89	182	138	67
75%	146	89	54	52	60	104	69	228	256	112	187	141	97
90%	155	127	144	125	105	137	113	374	425	154	192	147	117
100%	369	425	425	425	425	425	419	425	425	326	225	156	209
Mean	139	91	47	45	50	69	46	152	144	104	161	129	71
35 no CVP SJIE													
0%	24	15	2	2	2	2	2	2	0	2	49	43	23
10%	91	62	2	2	2	2	2	6	2	74	78	77	31
25%	137	66	2	2	2	18	2	47	2	84	112	135	43
50%	140	73	10	2	24	53	16	131	67	99	180	138	67
75%	145	88	54	52	62	104	80	243	256	125	186	141	98
90%	155	127	144	125	105	137	113	373	425	154	191	147	119
100%	369	425	425	425	425	425	419	425	425	326	225	156	209
Mean	138	91	47	45	51	69	49	158	142	111	152	127	71
45 no CVP SJIE													
0%	25	17	2	2	2	2	2	2	0	2	49	43	22
10%	81	62	2	2	2	2	2	15	2	78	76	76	31
25%	137	66	2	2	2	18	2	61	2	88	106	135	43
50%	140	72	10	2	24	55	26	144	59	107	159	138	67
75%	145	88	54	52	64	104	90	260	238	126	186	141	98
90%	155	127	144	125	105	139	136	355	395	152	191	147	119
100%	369	425	425	425	425	425	419	425	425	326	225	156	209
Mean	136	91	47	45	51	70	56	165	133	114	147	126	72
55 w/WSAs no CVP SJIE													
0%	23	11	2	2	2	2	2	2	0	2	48	42	23
10%	88	62	2	2	2	2	2	13	2	78	78	77	31
25%	137	66	2	2	2	20	2	56	2	88	108	135	43
50%	140	73	10	5	24	55	31	144	48	106	168	138	67
75%	145	88	54	52	66	104	94	270	215	126	186	141	94
90%	155	127	144	125	105	140	165	379	308	152	191	147	116
100%	369	425	425	425	425	425	419	425	425	312	225	156	202
Mean	137	91	47	45	52	71	60	165	115	114	147	126	71
55 no CVP SJIE													
0%	25	19	2	2	2	2	0	2	0	2	39	44	22
10%	74	62	2	2	2	2	2	44	2	72	68	73	31
25%	136	65	2	2	2	20	2	76	2	93	98	108	42
50%	140	72	11	2	24	62	49	149	19	108	139	138	66
75%	145	88	54	52	68	106	109	269	151	124	185	140	94
90%	155	127	144	125	105	147	165	374	265	150	191	146	116
100%	369	425	425	425	425	425	419	425	425	312	225	156	202
Mean	134	91	47	45	51	74	72	178	90	113	137	123	70
65 no CVP SJIE													
0%	18	7	2	2	2	2	0	2	0	2	37	41	21
10%	65	60	2	2	2	2	2	44	0	56	62	67	31
25%	113	65	2	2	2	24	22	70	0	75	74	88	38
50%	139	71	11	9	28	63	91	123	0	95	93	132	60
75%	144	88	50	44	77	119	152	254	4	113	177	139	84
90%	153	127	144	125	114	148	165	355	104	136	191	144	108
100%	369	425	425	425	425	425	419	425	415	257	225	156	189
Mean	128	90	47	46	54	79	91	170	31	97	115	115	64

Table H1a4-114. Water Year Average of Monthly Flows (cfs) — Milton-Bowman Tunnel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	134	70	8	3	14	25	7	13	8	81	105	98
D	130	79	19	10	12	37	29	71	38	85	142	124
BN	133	75	13	11	23	61	43	150	110	90	175	136
AN	127	106	57	57	48	87	55	230	166	93	184	141
W	157	116	106	109	114	115	79	255	306	144	187	141
All	139	91	47	45	50	69	46	152	144	104	161	129
35 no CVP SJIE												
C	130	70	9	5	14	23	7	29	8	87	87	90
D	129	78	18	9	14	37	35	78	36	97	129	120
BN	133	75	13	10	24	61	43	154	109	102	161	135
AN	126	105	57	58	48	87	56	230	165	97	181	141
W	156	116	106	109	114	116	83	260	305	145	186	141
All	138	91	47	45	51	69	49	158	142	111	152	127
45 no CVP SJIE												
C	127	68	10	5	14	22	8	41	6	86	84	88
D	127	78	18	9	14	37	38	88	28	104	120	118
BN	133	75	13	10	24	64	51	160	97	105	155	135
AN	126	105	57	58	49	88	73	222	150	106	172	141
W	155	116	106	109	115	117	92	269	292	147	185	141
All	136	91	47	45	51	70	56	165	133	114	147	126
55 w/WSAs no CVP SJIE												
C	126	69	10	5	14	23	7	32	7	87	86	89
D	127	78	18	9	14	38	37	83	32	99	126	119
BN	133	75	13	10	24	65	56	156	98	105	155	135
AN	127	105	57	58	48	88	77	222	134	109	168	141
W	155	116	106	109	117	119	101	281	236	146	182	140
All	137	91	47	45	52	71	60	165	115	114	147	126
55 no CVP SJIE												
C	124	67	10	5	14	26	14	56	3	73	76	81
D	124	78	19	10	12	38	51	105	9	99	107	114
BN	131	75	13	10	25	70	70	171	41	110	141	130
AN	126	106	57	58	49	91	96	219	94	117	157	141
W	153	116	106	109	117	123	109	285	225	146	182	140
All	134	91	47	45	51	74	72	178	90	113	137	123
65 no CVP SJIE												
C	118	67	8	7	15	30	19	53	1	67	63	72
D	119	76	20	12	12	37	71	95	1	82	79	98
BN	126	74	13	11	29	74	93	152	2	90	103	122
AN	117	104	58	54	51	104	116	205	6	100	132	138
W	148	116	106	109	124	129	132	285	97	129	171	137
All	128	90	47	46	54	79	91	170	31	97	115	115

H1a4.4.6 Toadtown Canal

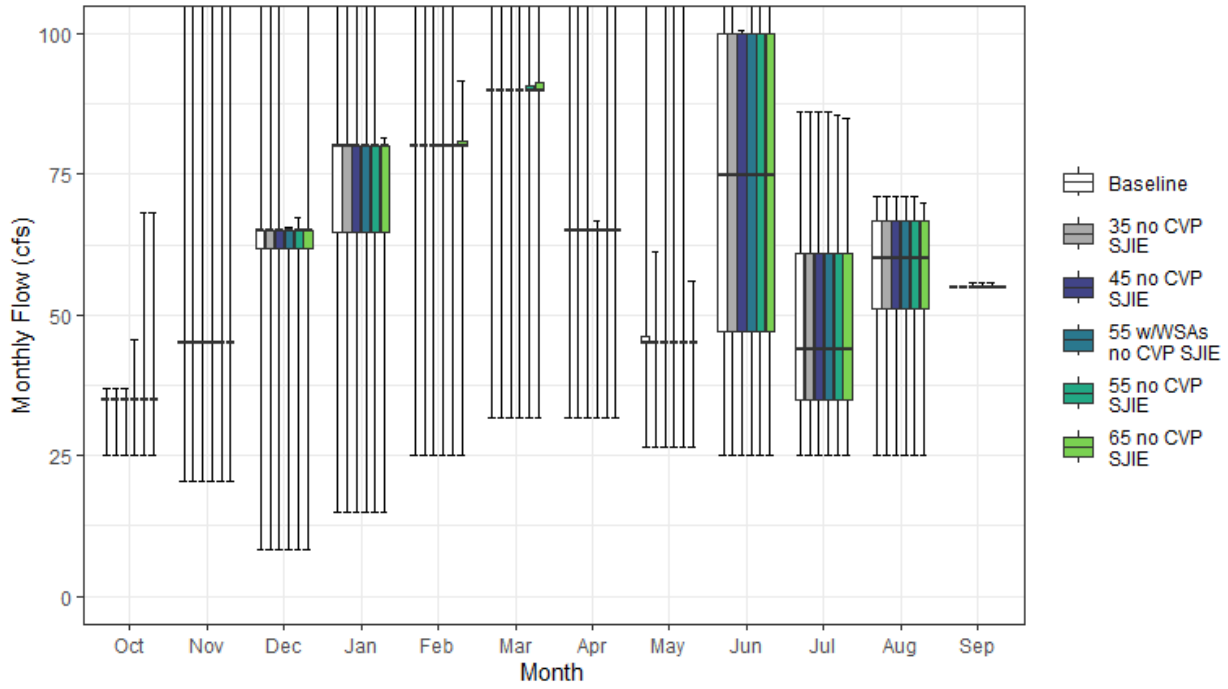

Figure H1a4-58. Toadtown Canal Monthly Boxplot (cfs)

Table H1a4-115. Cumulative Distribution of Monthly Flow (cfs) — Toadtown Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	25	21	8	15	25	32	32	27	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	80	90	65	46	100	61	67	55	48
90%	35	45	65	80	81	91	67	94	102	84	70	55	51
100%	37	109	113	117	120	127	119	118	115	86	71	55	54
Mean	35	43	58	72	80	90	65	53	73	50	58	55	44
35 no CVP SJIE													
0%	25	21	8	15	25	32	32	26	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	43
75%	35	45	65	80	80	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	66	46	100	84	70	55	49
100%	37	109	113	117	120	127	119	61	113	86	71	55	53
Mean	35	44	59	70	78	89	65	45	72	50	58	55	43
45 no CVP SJIE													
0%	25	21	8	15	25	32	32	26	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	43
75%	35	45	65	80	80	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	65	46	100	84	70	55	49
100%	37	109	113	117	120	127	119	119	101	86	71	56	54
Mean	35	44	58	70	78	90	65	46	72	49	58	55	43
55 w/WSAs no CVP SJIE													
0%	25	21	8	15	25	32	32	27	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	80	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	65	45	100	84	70	55	49
100%	45	109	66	117	120	127	67	119	118	86	71	56	54
Mean	35	46	58	70	78	90	64	45	72	50	58	55	43
55 no CVP SJIE													
0%	25	21	8	15	25	32	32	26	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	80	91	65	45	100	61	67	55	47
90%	35	47	65	80	82	92	65	46	100	84	70	55	49
100%	68	109	67	117	120	127	119	119	118	86	71	56	54
Mean	35	47	58	70	78	90	65	46	72	49	58	55	43
65 no CVP SJIE													
0%	25	21	8	15	25	32	32	26	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	81	91	65	45	100	61	67	55	47
90%	35	64	65	80	84	93	65	45	100	84	70	55	49
100%	68	109	113	81	92	127	119	56	119	85	70	55	55
Mean	35	48	58	69	78	90	65	45	72	49	58	55	43

Table H1a4-116. Water Year Average of Monthly Flows (cfs) — Toadtown Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	34	39	44	51	69	80	60	44	42	31	43	55
D	34	43	58	62	76	89	65	60	55	37	54	55
BN	35	42	54	73	78	90	65	65	72	43	58	55
AN	34	43	63	76	83	90	65	46	82	50	61	55
W	35	47	66	87	88	94	69	49	99	72	67	55
All	35	43	58	72	80	90	65	53	73	50	58	55
35 no CVP SJIE												
C	34	39	44	51	69	80	60	42	42	31	43	55
D	34	45	58	62	76	89	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	45	71	43	58	55
AN	34	43	63	76	80	90	65	45	81	50	61	55
W	35	47	68	82	84	94	69	46	97	72	67	55
All	35	44	59	70	78	89	65	45	72	50	58	55
45 no CVP SJIE												
C	34	40	44	51	69	80	60	41	42	31	43	55
D	35	46	58	62	76	90	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	47	70	43	58	55
AN	34	43	63	76	80	90	65	45	81	50	61	55
W	35	47	66	82	84	95	67	48	97	72	67	55
All	35	44	58	70	78	90	65	46	72	49	58	55
55 w/WSAs no CVP SJIE												
C	35	39	44	51	69	80	60	42	42	31	43	55
D	35	52	58	62	76	90	65	45	55	37	54	55
BN	35	43	54	73	77	90	65	45	70	43	58	55
AN	34	50	63	75	80	90	65	45	81	50	61	55
W	35	47	65	83	83	94	65	48	97	72	67	55
All	35	46	58	70	78	90	64	45	72	50	58	55
55 no CVP SJIE												
C	35	39	44	51	69	80	60	41	42	31	43	55
D	34	52	58	62	77	90	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	45	71	43	58	55
AN	34	50	63	75	80	90	65	45	81	50	61	55
W	36	49	65	81	81	96	67	50	97	72	67	55
All	35	47	58	70	78	90	65	46	72	49	58	55
65 no CVP SJIE												
C	34	40	44	51	70	81	60	42	42	31	43	55
D	34	52	57	62	78	90	65	45	55	37	54	55
BN	35	44	54	73	78	92	65	45	70	43	58	55
AN	34	49	62	75	81	91	65	45	81	50	61	55
W	36	52	68	79	80	92	67	45	99	72	67	55
All	35	48	58	69	78	90	65	45	72	49	58	55

H1a4.4.7 Slate Creek Tunnel

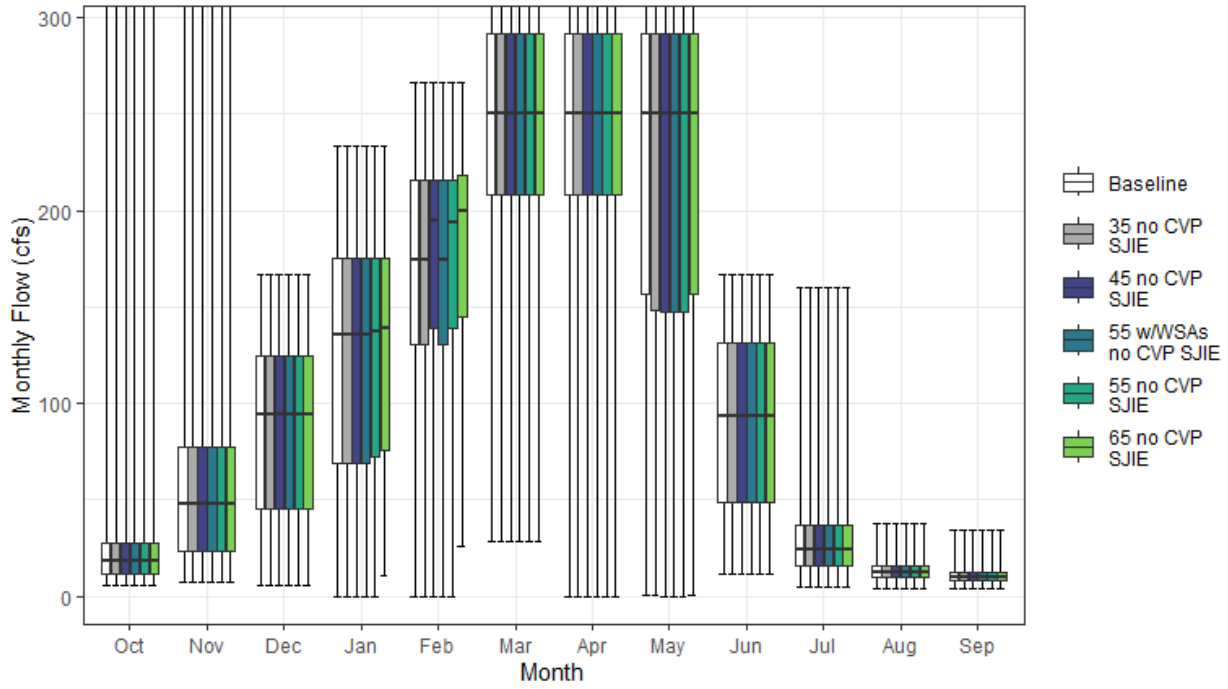

Figure H1a4-59. Slate Creek Tunnel Monthly Boxplot (cfs)

Table H1a4-117. Cumulative Distribution of Monthly Flow (cfs) — Slate Creek Tunnel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	5	8	6	0	0	29	0	1	12	5	4	4	13
10%	8	15	28	43	71	139	149	81	27	13	8	7	50
25%	11	24	46	69	131	208	208	156	48	16	10	8	65
50%	18	48	94	136	175	250	250	250	93	24	12	10	78
75%	28	77	125	175	216	292	292	292	131	37	15	13	96
90%	44	184	146	204	233	292	292	292	146	57	20	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	134
Mean	27	78	88	125	168	236	237	215	91	32	13	11	79
35 no CVP SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	71	139	148	67	27	13	8	7	50
25%	11	24	46	69	131	208	208	148	48	16	10	8	65
50%	18	48	94	136	175	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	19	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	126	168	236	233	210	91	32	13	11	79
45 no CVP SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	73	139	148	67	27	13	8	7	50
25%	11	24	46	69	139	208	208	148	48	16	10	8	65
50%	18	48	94	136	195	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	20	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	126	170	235	234	210	91	32	13	11	79
55 w/WSAs no CVP SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	71	139	148	67	27	13	8	7	50
25%	11	24	46	69	131	208	208	148	48	16	10	8	65
50%	19	48	94	136	175	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	19	14	108
100%	429	470	167	233	267	333	333	333	167	160	38	34	127
Mean	26	78	88	125	168	236	233	210	91	32	13	11	79
55 no CVP SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	44	73	139	148	67	27	13	8	7	50
25%	11	24	46	72	139	208	208	148	48	16	10	8	65
50%	18	48	94	137	194	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	19	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	128	170	236	233	210	91	32	13	11	79
65 no CVP SJIE													
0%	5	8	6	11	26	29	0	0	12	5	4	4	13
10%	8	15	28	46	75	139	148	81	27	13	8	7	50
25%	11	24	46	76	145	208	208	156	49	16	10	8	68
50%	19	48	94	139	200	250	250	250	93	24	12	10	78
75%	28	77	125	175	218	292	292	292	132	37	15	13	97
90%	44	184	146	204	233	292	292	292	146	57	19	14	110
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	130	172	237	233	216	91	32	13	11	80

Table H1a4-118. Water Year Average of Monthly Flows (cfs) — Slate Creek Tunnel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	213	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	40	123	129	173	203	276	245	258	130	56	18	14
All	27	78	88	125	168	236	237	215	91	32	13	11
35 no CVP SJIE												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	213	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	40	123	129	174	203	276	234	241	130	56	18	14
All	27	78	88	126	168	236	233	210	91	32	13	11
45 no CVP SJIE												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	213	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	40	123	129	174	210	273	237	241	130	56	18	14
All	27	78	88	126	170	235	234	210	91	32	13	11
55 w/WSAs no CVP SJIE												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	212	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	39	123	128	173	203	276	234	241	130	56	18	14
All	26	78	88	125	168	236	233	210	91	32	13	11
55 no CVP SJIE												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	212	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	40	123	128	181	210	276	234	241	130	56	18	14
All	27	78	88	128	170	236	233	210	91	32	13	11
65 no CVP SJIE												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	212	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	40	123	128	188	218	279	234	263	130	56	18	14
All	27	78	88	130	172	237	233	216	91	32	13	11

H1a4.4.8 South Canal

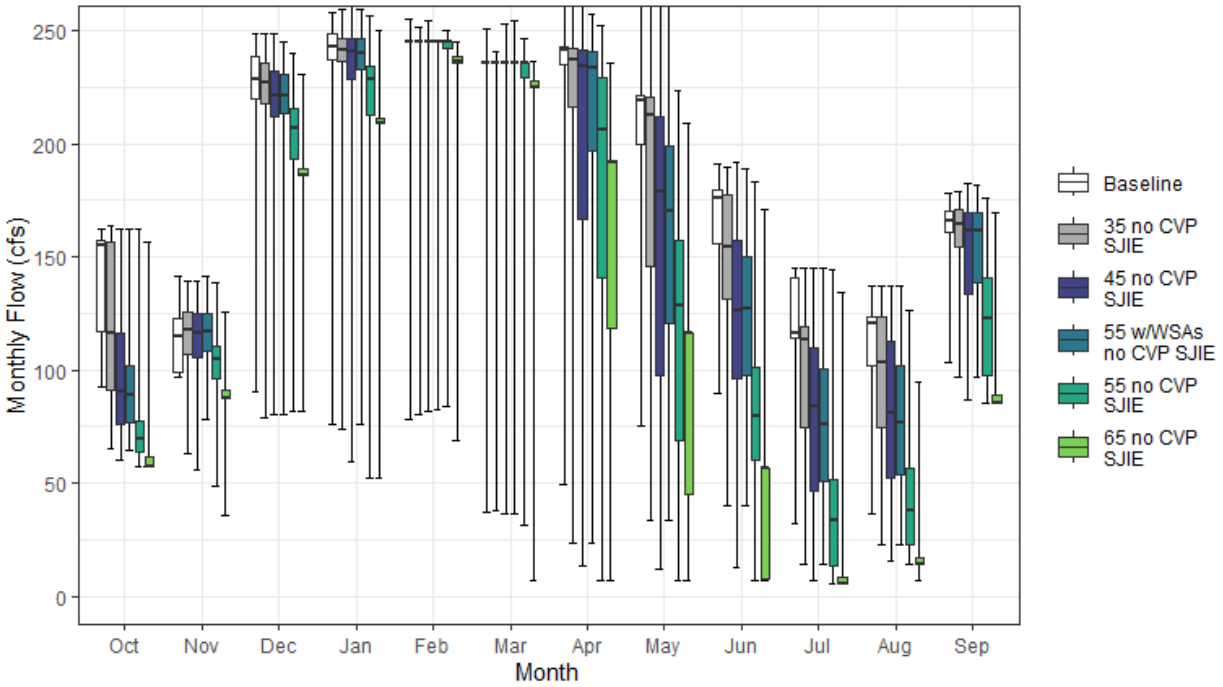

Figure H1a4-60. South Canal Monthly Boxplot (cfs)

Table H1a4-119. Cumulative Distribution of Monthly Flow (cfs) — South Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	93	97	90	76	78	37	49	75	90	32	37	104	54
10%	113	97	213	223	245	236	175	172	152	101	99	143	124
25%	117	99	219	237	245	236	235	200	156	114	102	161	131
50%	155	115	228	243	245	236	241	219	176	116	121	166	135
75%	157	123	239	249	245	236	243	222	179	141	124	170	137
90%	160	132	247	251	245	236	247	223	182	142	125	173	138
100%	162	141	249	258	255	251	269	277	191	145	137	178	140
Mean	142	113	225	234	240	230	226	210	168	122	114	162	132
35 no CVP SJIE													
0%	65	63	79	74	80	38	24	34	40	14	23	97	44
10%	77	97	212	210	245	236	79	95	97	52	58	139	104
25%	91	107	218	236	245	236	216	146	131	75	75	154	120
50%	116	118	227	242	245	236	237	212	155	114	103	165	132
75%	157	126	236	247	245	236	242	221	178	119	123	171	135
90%	160	130	245	251	245	236	245	223	181	142	125	175	137
100%	163	139	249	260	251	241	269	277	189	145	137	179	139
Mean	121	116	223	233	240	229	210	185	148	103	99	160	124
45 no CVP SJIE													
0%	60	56	81	59	82	36	14	12	13	7	16	87	40
10%	68	97	199	213	245	204	61	59	69	26	32	111	89
25%	76	105	212	229	245	236	167	97	96	46	52	134	103
50%	90	116	221	240	245	236	234	179	126	84	81	161	121
75%	116	125	232	246	245	236	241	212	157	110	113	169	130
90%	157	132	238	252	245	236	246	222	177	136	124	176	133
100%	162	139	249	261	255	253	261	276	192	145	137	183	139
Mean	101	115	217	231	239	226	196	157	125	79	80	151	115
55 w/WSAs no CVP SJIE													
0%	65	78	80	76	82	36	24	34	40	14	23	97	43
10%	70	99	206	205	245	229	74	83	84	35	42	126	95
25%	77	109	213	233	245	236	197	121	97	51	54	139	107
50%	89	117	221	240	245	236	233	170	127	76	76	161	118
75%	102	125	230	246	245	236	241	199	150	100	102	170	128
90%	156	131	238	251	245	236	245	221	176	117	123	174	132
100%	162	142	245	259	245	254	257	276	189	145	137	181	138
Mean	98	116	218	231	238	227	200	158	124	77	78	153	115
55 no CVP SJIE													
0%	58	48	82	52	84	31	7	7	7	6	14	85	37
10%	62	90	186	190	236	193	59	23	28	8	17	88	74
25%	64	96	193	213	242	229	140	69	60	13	22	97	87
50%	69	105	207	228	245	236	206	129	80	33	38	123	102
75%	78	110	215	234	245	236	229	158	101	52	56	141	113
90%	106	122	228	249	245	236	241	204	147	100	98	169	124
100%	162	138	240	256	250	247	252	223	183	144	127	176	135
Mean	79	104	204	218	236	220	180	119	84	42	46	124	100
65 no CVP SJIE													
0%	58	36	82	52	69	7	7	7	7	6	7	85	33
10%	58	88	186	149	225	165	40	7	7	6	14	85	65
25%	58	88	186	209	236	225	118	45	7	6	14	85	75
50%	58	88	186	209	236	225	192	116	57	6	14	85	88
75%	62	91	189	212	239	227	193	116	57	8	17	89	90
90%	66	97	199	221	245	235	204	124	65	16	24	106	97
100%	157	126	230	250	245	237	235	209	171	134	95	169	122
Mean	62	90	185	200	227	210	158	86	41	11	19	92	83

Table H1a4-120. Water Year Average of Monthly Flows (cfs) — South Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	143	117	217	209	218	204	164	168	154	102	101	156
D	140	111	225	234	244	233	231	202	169	123	113	163
BN	139	115	232	239	243	236	239	219	172	125	117	165
AN	135	113	224	241	245	236	241	217	168	132	111	158
W	146	113	224	241	245	236	242	228	171	124	120	164
All	142	113	225	234	240	230	226	210	168	122	114	162
35 no CVP SJIE												
C	114	120	213	209	216	199	109	99	100	54	58	136
D	115	117	225	232	244	232	203	156	134	86	88	161
BN	125	117	227	238	242	236	231	205	156	114	106	167
AN	117	109	226	240	245	236	241	217	168	131	111	164
W	129	116	223	241	245	236	242	226	172	123	119	165
All	121	116	223	233	240	229	210	185	148	103	99	160
45 no CVP SJIE												
C	85	113	202	199	214	182	88	67	73	30	37	112
D	96	116	218	227	244	230	167	111	101	54	58	142
BN	110	114	221	241	240	237	219	164	123	77	80	160
AN	93	113	221	241	245	236	241	191	143	103	93	167
W	110	117	222	240	245	236	241	220	165	117	114	166
All	101	115	217	231	239	226	196	157	125	79	80	151
55 w/WSAs no CVP SJIE												
C	93	118	207	205	217	193	108	95	97	51	55	135
D	95	116	219	225	241	229	183	133	118	68	73	152
BN	110	114	223	240	237	236	218	165	124	78	80	159
AN	83	114	219	238	245	236	239	184	137	97	85	165
W	100	118	220	239	245	236	235	194	136	88	88	155
All	98	116	218	231	238	227	200	158	124	77	78	153
55 no CVP SJIE												
C	67	100	186	179	208	159	78	41	41	14	22	95
D	80	104	204	215	240	224	141	72	56	20	27	105
BN	84	104	208	229	236	235	198	120	75	29	35	118
AN	70	101	206	228	244	235	224	148	100	53	51	134
W	84	108	210	231	245	236	232	181	126	76	78	152
All	79	104	204	218	236	220	180	119	84	42	46	124
65 no CVP SJIE												
C	59	90	172	161	189	141	68	25	20	7	16	87
D	61	92	187	195	232	211	127	54	16	7	16	88
BN	64	90	187	207	228	225	177	93	39	6	15	86
AN	59	84	179	210	239	228	198	114	56	19	23	96
W	64	92	192	214	240	229	201	126	66	17	24	99
All	62	90	185	200	227	210	158	86	41	11	19	92

H1a4.4.9 South Yuba Canal

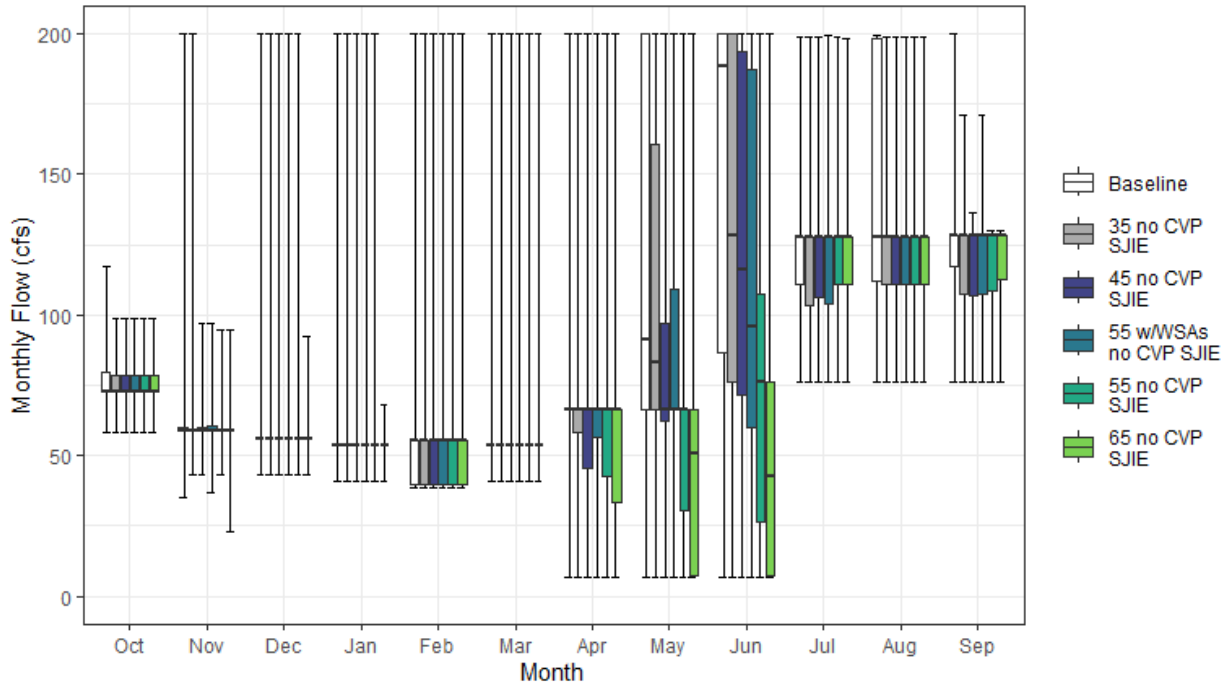

Figure H1a4-61. South Yuba Canal Monthly Boxplot (cfs)

Table H1a4-121. Cumulative Distribution of Monthly Flow (cfs) — South Yuba Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	58	35	43	41	39	41	7	7	7	76	76	76	46
10%	73	59	43	41	40	41	7	23	51	90	76	76	55
25%	73	59	56	54	40	54	66	67	87	111	112	117	58
50%	73	59	56	54	55	54	66	91	188	128	128	128	64
75%	79	60	56	54	55	54	66	200	200	128	198	128	72
90%	88	74	86	66	60	55	138	200	200	198	199	128	85
100%	117	200	200	200	200	200	200	200	200	199	200	200	105
Mean	76	62	67	59	59	61	70	116	144	130	141	124	67
35 no CVP SJIE													
0%	58	43	43	41	39	41	7	7	7	76	76	76	46
10%	73	59	43	41	40	41	7	41	23	88	76	76	52
25%	73	59	56	54	40	54	58	66	76	103	111	107	56
50%	73	59	56	54	55	54	66	83	128	128	128	128	62
75%	78	60	56	54	55	54	66	161	200	128	128	128	69
90%	87	73	86	66	63	55	110	200	200	158	199	128	77
100%	99	200	200	200	200	200	200	200	200	199	199	171	105
Mean	76	63	67	59	59	60	68	105	129	123	129	118	64
45 no CVP SJIE													
0%	58	43	43	41	39	41	7	7	7	76	76	76	45
10%	73	59	43	41	40	41	7	28	16	78	76	76	49
25%	73	59	56	54	40	54	46	62	72	106	111	107	54
50%	73	59	56	54	55	54	66	67	116	128	128	128	58
75%	79	60	56	54	55	54	66	97	194	128	128	128	66
90%	87	74	85	66	57	55	80	200	200	128	162	128	72
100%	99	97	200	200	200	200	200	200	200	199	199	136	104
Mean	76	62	64	57	59	60	65	84	114	120	123	117	61
55 w/WSAs no CVP SJIE													
0%	58	37	43	41	39	41	7	7	7	76	76	76	42
10%	73	59	43	41	40	41	7	16	7	76	76	76	48
25%	73	59	56	54	40	54	57	66	60	104	111	107	52
50%	73	59	56	54	55	54	66	67	96	128	128	128	58
75%	79	60	56	54	55	54	66	109	187	128	128	128	64
90%	87	74	82	66	57	55	67	166	200	130	185	128	74
100%	99	97	200	200	200	200	200	200	200	200	199	171	99
Mean	76	62	64	57	59	60	64	83	107	120	126	118	60
55 no CVP SJIE													
0%	58	43	43	41	39	41	7	7	7	76	76	76	42
10%	73	59	43	41	40	41	7	7	7	76	76	76	47
25%	73	59	56	54	40	54	42	31	27	111	111	109	50
50%	73	59	56	54	55	54	66	66	76	128	128	128	54
75%	79	60	56	54	55	54	66	67	108	128	128	128	59
90%	87	73	77	66	55	54	66	110	200	128	128	128	66
100%	99	94	200	200	200	200	200	200	200	199	199	130	96
Mean	76	61	60	56	59	59	61	64	80	118	120	118	56
65 no CVP SJIE													
0%	58	23	43	41	39	41	7	7	7	76	76	76	41
10%	73	59	43	41	40	41	7	7	7	76	76	107	46
25%	73	59	56	54	40	54	33	7	7	111	111	113	48
50%	73	59	56	54	55	54	66	51	43	128	128	128	51
75%	79	59	56	54	55	54	66	66	76	128	128	128	56
90%	86	73	73	66	55	54	66	72	131	128	128	128	59
100%	99	94	93	68	200	200	200	200	200	199	199	130	96
Mean	76	61	58	53	57	55	58	49	55	119	119	120	53

Table H1a4-122. Water Year Average of Monthly Flows (cfs) — South Yuba Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	75	61	61	61	48	52	49	137	133	167	179	153
D	75	64	58	54	46	49	40	91	122	140	162	128
BN	81	63	62	49	50	52	67	82	136	122	142	127
AN	74	68	69	51	51	53	77	113	149	110	130	110
W	76	59	79	71	84	83	104	145	168	115	109	108
All	76	62	67	59	59	61	70	116	144	130	141	124
35 no CVP SJIE												
C	75	61	60	61	48	49	36	99	99	145	137	121
D	75	64	58	54	46	49	39	83	91	131	138	124
BN	79	63	62	49	50	52	66	78	127	126	142	127
AN	74	70	69	51	51	53	77	97	146	104	129	110
W	76	59	79	71	84	83	103	144	168	112	110	108
All	76	63	67	59	59	60	68	105	129	123	129	118
45 no CVP SJIE												
C	75	61	60	60	48	50	28	75	80	133	121	115
D	75	64	58	54	46	49	39	57	81	127	126	124
BN	79	64	62	49	50	52	65	63	100	125	132	127
AN	74	62	69	51	51	53	66	86	120	106	128	110
W	76	59	71	66	84	83	102	122	162	110	114	109
All	76	62	64	57	59	60	65	84	114	120	123	117
55 w/WSAs no CVP SJIE												
C	75	61	60	61	48	49	35	95	94	142	137	120
D	75	64	58	54	46	49	39	70	76	123	131	124
BN	79	64	62	49	50	52	65	59	103	127	131	127
AN	74	60	69	51	51	53	66	69	100	106	128	110
W	76	60	70	66	84	82	98	107	143	107	114	111
All	76	62	64	57	59	60	64	83	107	120	126	118
55 no CVP SJIE												
C	75	61	60	60	48	49	21	53	55	123	117	114
D	75	64	58	54	46	49	38	31	46	128	124	124
BN	79	64	62	49	50	52	64	52	66	128	125	128
AN	74	59	69	51	51	53	66	63	81	106	122	110
W	76	59	56	61	82	80	94	101	128	107	114	112
All	76	61	60	56	59	59	61	64	80	118	120	118
65 no CVP SJIE												
C	75	61	60	60	51	49	17	41	38	121	116	115
D	75	64	58	54	46	49	38	21	40	124	124	124
BN	79	64	62	49	50	52	63	35	35	126	128	128
AN	73	55	57	51	51	53	66	49	64	117	117	118
W	76	59	55	53	74	67	88	84	83	110	111	115
All	76	61	58	53	57	55	58	49	55	119	119	120

H1a4.4.10Chalk Bluff Canal

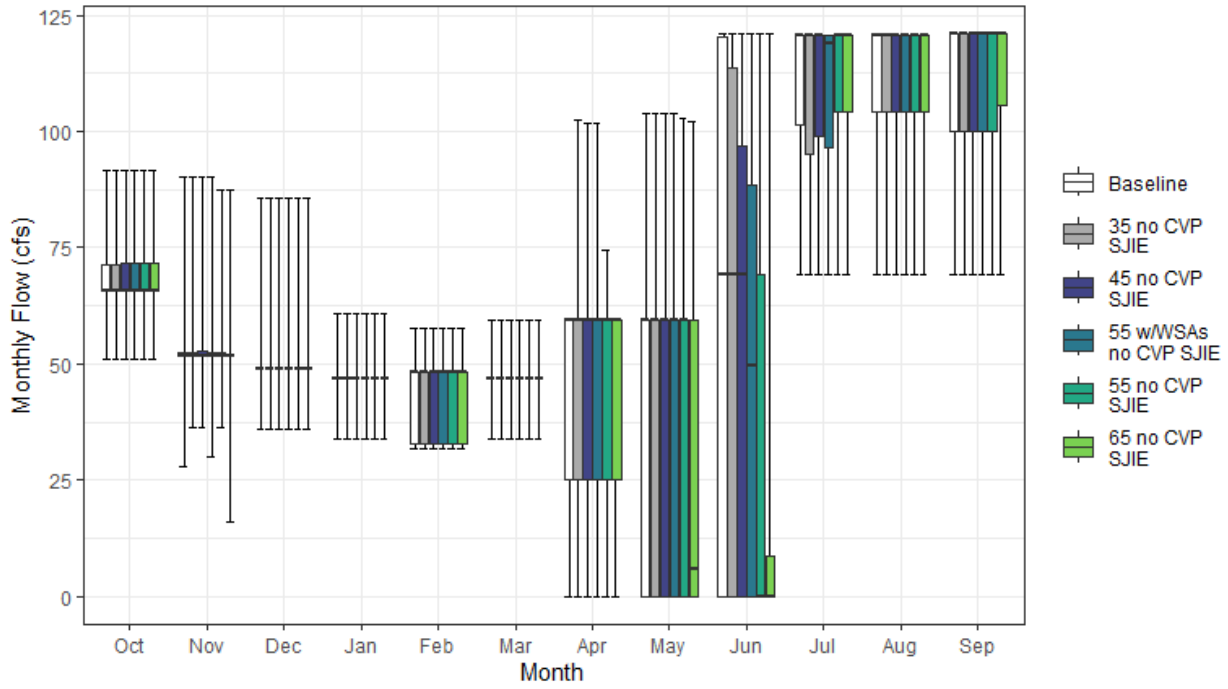

Figure H1a4-62. Chalk Bluff Canal Monthly Boxplot (cfs)

Table H1a4-123. Cumulative Distribution of Monthly Flow (cfs) — Chalk Bluff Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	51	28	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	83	69	69	38
25%	66	52	49	47	33	47	25	0	0	101	104	100	42
50%	66	52	49	47	48	47	59	59	69	121	121	121	48
75%	71	52	49	47	48	47	59	59	120	121	121	121	53
90%	80	66	66	59	48	47	59	73	121	121	121	121	56
100%	92	90	85	61	58	59	59	104	121	121	121	121	60
Mean	69	54	51	46	43	44	44	42	64	109	107	109	47
35 no CVP SJIE													
0%	51	36	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	81	69	69	38
25%	66	52	49	47	33	47	25	0	0	95	104	100	42
50%	66	52	49	47	48	47	59	59	69	121	121	121	47
75%	71	52	49	47	48	47	59	59	114	121	121	121	53
90%	80	66	66	59	48	47	59	60	121	121	121	121	56
100%	92	90	85	61	58	59	102	104	121	121	121	121	60
Mean	69	55	51	46	43	44	45	40	60	108	108	109	47
45 no CVP SJIE													
0%	51	36	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	71	69	69	38
25%	66	52	49	47	33	47	25	0	0	99	104	100	42
50%	66	52	49	47	48	47	59	59	69	121	121	121	46
75%	72	53	49	47	48	47	59	59	97	121	121	121	52
90%	80	67	66	59	48	47	59	59	121	121	121	121	55
100%	92	90	85	61	58	59	102	104	121	121	121	121	59
Mean	69	55	51	46	43	44	45	37	52	107	108	109	46
55 w/WSAs no CVP SJIE													
0%	51	30	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	69	69	69	37
25%	66	52	49	47	33	47	25	0	0	97	104	100	41
50%	66	52	49	47	48	47	59	59	50	119	121	121	45
75%	72	52	49	47	48	47	59	59	89	121	121	121	52
90%	80	67	66	59	48	47	59	59	121	121	121	121	54
100%	92	90	85	61	58	59	102	104	121	121	121	121	60
Mean	69	55	51	46	43	44	44	37	49	106	109	110	46
55 no CVP SJIE													
0%	51	36	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	69	69	69	37
25%	66	52	49	47	33	47	25	0	0	104	104	100	41
50%	66	52	49	47	48	47	59	59	0	121	121	121	45
75%	72	52	49	47	48	47	59	59	69	121	121	121	50
90%	80	66	66	59	48	47	59	59	97	121	121	121	53
100%	92	87	85	61	58	59	75	103	121	121	121	121	56
Mean	69	54	51	46	43	44	44	34	35	108	109	111	45
65 no CVP SJIE													
0%	51	16	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	69	69	100	37
25%	66	52	49	47	33	47	25	0	0	104	104	106	41
50%	66	52	49	47	48	47	59	6	0	121	121	121	44
75%	72	52	49	47	48	47	59	59	9	121	121	121	48
90%	79	66	66	59	48	47	59	59	69	121	121	121	50
100%	92	87	85	61	58	59	59	102	121	121	121	121	53
Mean	69	54	51	46	43	44	44	28	16	108	110	113	44

Table H1a4-124. Water Year Average of Monthly Flows (cfs) — Chalk Bluff Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	68	54	53	53	40	41	10	0	3	108	109	106
D	68	57	51	47	39	42	31	18	35	113	117	117
BN	72	56	55	42	43	45	54	57	82	111	115	120
AN	67	53	50	44	44	46	59	65	89	103	102	103
W	69	52	48	46	47	47	59	63	95	107	95	101
All	69	54	51	46	43	44	44	42	64	109	107	109
35 no CVP SJIE												
C	68	54	53	53	40	41	10	0	1	108	109	106
D	68	57	51	47	39	42	31	15	30	113	117	117
BN	72	56	55	42	43	45	54	52	73	111	116	120
AN	67	54	50	44	44	46	59	63	81	97	103	103
W	69	52	48	46	47	47	61	62	95	105	96	101
All	69	55	51	46	43	44	45	40	60	108	108	109
45 no CVP SJIE												
C	68	54	53	53	40	41	10	0	0	108	109	106
D	68	57	51	47	39	42	31	14	18	113	117	117
BN	72	57	55	42	43	45	54	42	62	111	117	120
AN	67	55	50	44	44	46	59	60	73	99	104	103
W	69	52	48	46	47	47	61	60	91	103	97	102
All	69	55	51	46	43	44	45	37	52	107	108	109
55 w/WSAs no CVP SJIE												
C	68	54	53	53	40	41	9	0	0	108	109	106
D	68	57	51	47	39	42	31	14	24	113	117	117
BN	72	57	55	42	43	45	54	42	65	112	117	120
AN	67	53	50	44	44	46	59	58	59	99	104	103
W	69	52	48	46	47	47	61	61	77	100	100	104
All	69	55	51	46	43	44	44	37	49	106	109	110
55 no CVP SJIE												
C	68	54	53	53	40	41	8	0	0	108	109	106
D	68	57	51	47	39	42	31	9	3	116	117	117
BN	72	57	55	42	43	45	54	39	26	117	118	121
AN	67	52	50	44	44	46	59	56	53	99	104	103
W	69	52	48	46	47	47	60	59	74	100	100	105
All	69	54	51	46	43	44	44	34	35	108	109	111
65 no CVP SJIE												
C	68	54	53	53	40	41	7	0	0	109	109	106
D	68	57	51	47	39	42	31	4	0	116	117	117
BN	72	57	55	42	43	45	54	25	0	117	118	121
AN	66	48	50	44	44	46	59	42	3	104	104	111
W	69	52	48	46	47	47	59	57	53	97	102	108
All	69	54	51	46	43	44	44	28	16	108	110	113

H1a4.4.11 Clear Creek Tunnel

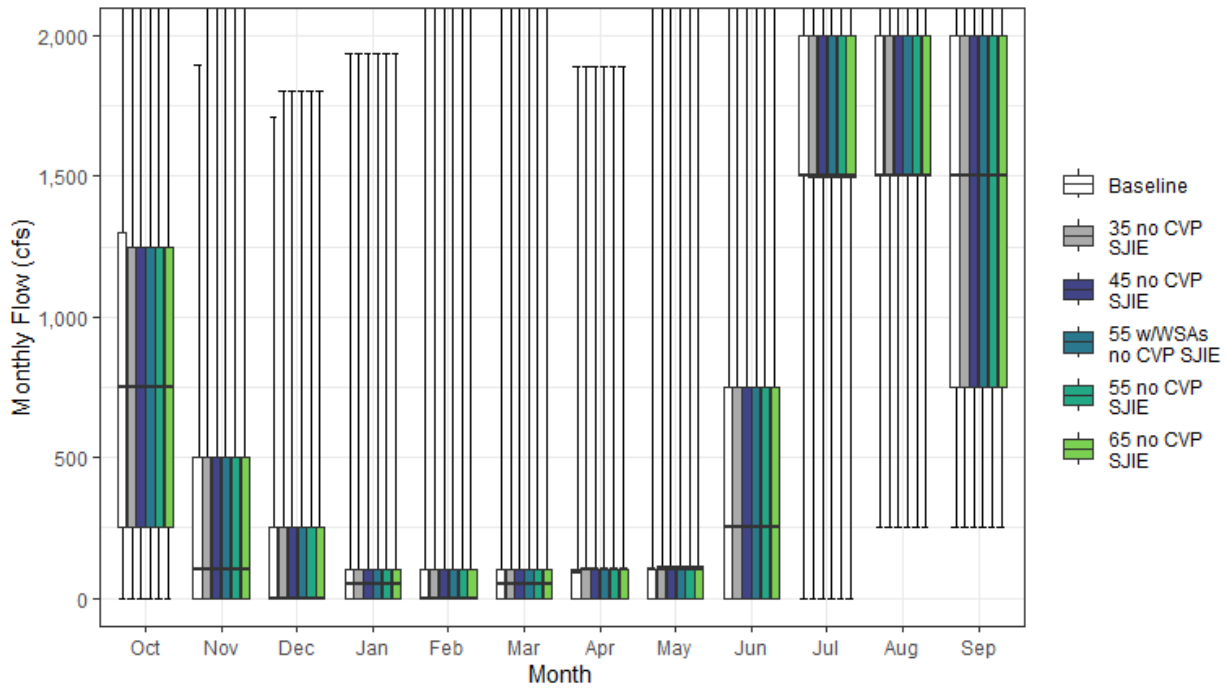

Figure H1a4-63. Clear Creek Tunnel Monthly Boxplot (cfs)

Table H1a4-125. Cumulative Distribution of Monthly Flow (cfs) — Clear Creek Tunnel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	1,000	500	226
25%	250	0	0	0	0	0	0	0	0	1,500	1,500	750	312
50%	750	100	0	50	0	50	88	100	250	1,500	1,500	1,500	440
75%	1,298	500	250	100	100	100	100	100	750	2,000	2,000	2,000	568
90%	1,848	500	308	266	709	824	258	250	1,300	2,873	2,750	2,101	696
100%	3,200	1,898	1,714	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,050
Mean	852	227	157	144	273	262	161	211	471	1,575	1,721	1,396	452
35 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	987	500	220
25%	250	0	0	0	0	0	0	0	0	1,498	1,500	750	312
50%	750	100	0	50	0	50	100	100	250	1,500	1,500	1,500	440
75%	1,250	500	250	100	100	100	100	111	750	2,000	2,000	2,000	564
90%	1,826	500	308	250	706	905	258	250	1,183	3,200	2,584	2,132	696
100%	3,200	3,200	1,802	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,048
Mean	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409	452
45 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	987	500	220
25%	250	0	0	0	0	0	0	0	0	1,498	1,500	750	312
50%	750	100	0	50	0	50	100	100	250	1,500	1,500	1,500	440
75%	1,250	500	250	100	100	100	100	111	750	2,000	2,000	2,000	564
90%	1,826	500	308	250	706	905	258	250	1,183	3,200	2,584	2,132	696
100%	3,200	3,200	1,802	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,048
Mean	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409	452
55 w/WSAs no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	987	500	220
25%	250	0	0	0	0	0	0	0	0	1,498	1,500	750	312
50%	750	100	0	50	0	50	100	100	250	1,500	1,500	1,500	440
75%	1,250	500	250	100	100	100	100	111	750	2,000	2,000	2,000	564
90%	1,826	500	308	250	706	905	258	250	1,183	3,200	2,584	2,132	696
100%	3,200	3,200	1,802	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,048
Mean	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409	452
55 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	987	500	220
25%	250	0	0	0	0	0	0	0	0	1,498	1,500	750	312
50%	750	100	0	50	0	50	100	100	250	1,500	1,500	1,500	440
75%	1,250	500	250	100	100	100	100	111	750	2,000	2,000	2,000	564
90%	1,826	500	308	250	706	905	258	250	1,183	3,200	2,584	2,132	696
100%	3,200	3,200	1,802	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,048
Mean	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409	452
65 no CVP SJIE													
0%	0	0	0	0	0	0	0	0	0	0	250	250	128
10%	0	0	0	0	0	0	0	0	0	0	987	500	220
25%	250	0	0	0	0	0	0	0	0	1,498	1,500	750	312
50%	750	100	0	50	0	50	100	100	250	1,500	1,500	1,500	440
75%	1,250	500	250	100	100	100	100	111	750	2,000	2,000	2,000	564
90%	1,826	500	308	250	706	905	258	250	1,183	3,200	2,584	2,132	696
100%	3,200	3,200	1,802	1,935	3,200	3,199	1,889	3,200	3,200	3,200	3,200	3,200	1,048
Mean	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409	452

Table H1a4-126. Water Year Average of Monthly Flows (cfs) — Clear Creek Tunnel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	608	141	121	139	545	304	134	421	798	2,246	1,657	762
D	780	236	155	144	684	269	86	127	670	1,725	2,021	1,510
BN	952	156	81	293	102	398	216	66	487	1,237	1,681	1,342
AN	882	250	269	178	25	50	211	52	148	1,336	1,625	1,424
W	960	302	182	39	33	234	174	315	270	1,417	1,599	1,673
All	852	227	157	144	273	262	161	211	471	1,575	1,721	1,396
35 no CVP SJIE												
C	608	157	115	134	544	257	124	408	770	2,415	1,420	885
D	769	296	155	133	697	264	95	134	670	1,702	1,983	1,503
BN	880	312	81	293	102	398	216	66	487	1,237	1,681	1,316
AN	851	292	276	178	25	50	250	52	86	1,336	1,625	1,424
W	960	293	182	39	41	254	171	315	245	1,417	1,587	1,674
All	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409
45 no CVP SJIE												
C	608	157	115	134	544	257	124	408	770	2,415	1,420	885
D	769	296	155	133	697	264	95	134	670	1,702	1,983	1,503
BN	880	312	81	293	102	398	216	66	487	1,237	1,681	1,316
AN	851	292	276	178	25	50	250	52	86	1,336	1,625	1,424
W	960	293	182	39	41	254	171	315	245	1,417	1,587	1,674
All	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409
55 w/WSAs no CVP SJIE												
C	608	157	115	134	544	257	124	408	770	2,415	1,420	885
D	769	296	155	133	697	264	95	134	670	1,702	1,983	1,503
BN	880	312	81	293	102	398	216	66	487	1,237	1,681	1,316
AN	851	292	276	178	25	50	250	52	86	1,336	1,625	1,424
W	960	293	182	39	41	254	171	315	245	1,417	1,587	1,674
All	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409
55 no CVP SJIE												
C	608	157	115	134	544	257	124	408	770	2,415	1,420	885
D	769	296	155	133	697	264	95	134	670	1,702	1,983	1,503
BN	880	312	81	293	102	398	216	66	487	1,237	1,681	1,316
AN	851	292	276	178	25	50	250	52	86	1,336	1,625	1,424
W	960	293	182	39	41	254	171	315	245	1,417	1,587	1,674
All	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409
65 no CVP SJIE												
C	608	157	115	134	544	257	124	408	770	2,415	1,420	885
D	769	296	155	133	697	264	95	134	670	1,702	1,983	1,503
BN	880	312	81	293	102	398	216	66	487	1,237	1,681	1,316
AN	851	292	276	178	25	50	250	52	86	1,336	1,625	1,424
W	960	293	182	39	41	254	171	315	245	1,417	1,587	1,674
All	832	276	157	141	278	260	165	210	452	1,597	1,671	1,409

H1a4.4.12Spring Creek Conduit

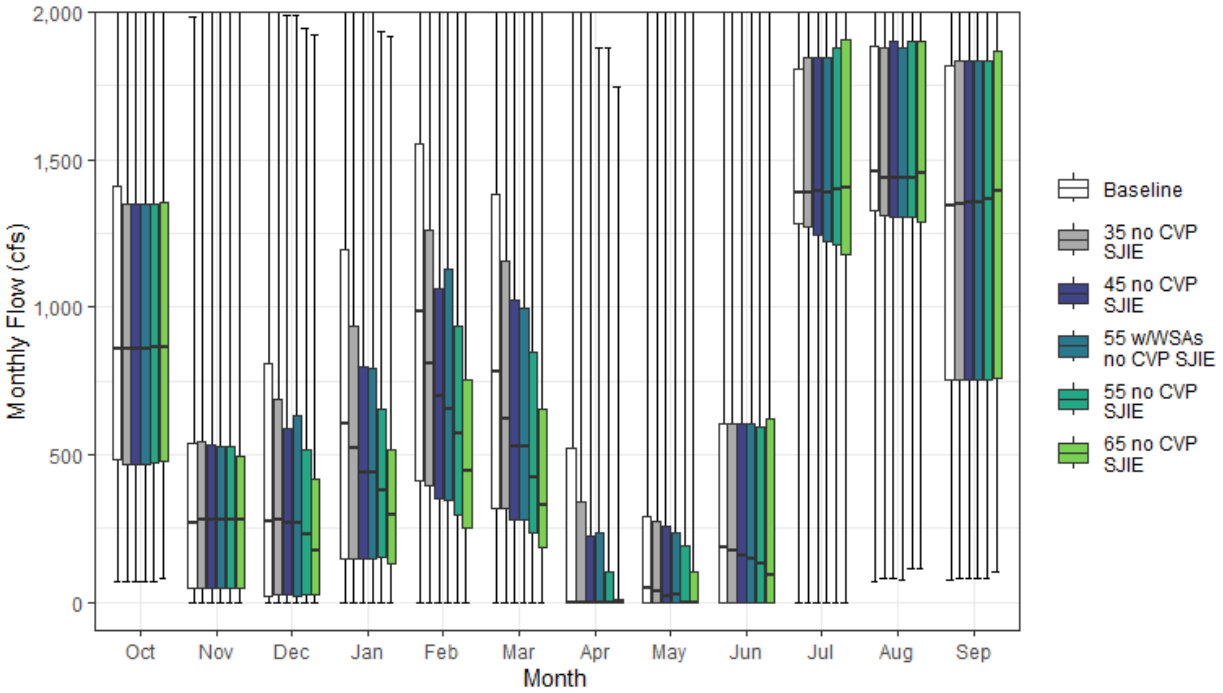

Figure H1a4-64. Spring Creek Conduit Monthly Boxplot (cfs)

Table H1a4-127. Cumulative Distribution of Monthly Flow (cfs) — Spring Creek Conduit

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	69	0	0	0	0	0	0	0	0	0	71	75	155
10%	233	0	0	21	155	139	0	0	0	81	866	503	326
25%	483	48	19	148	411	318	0	0	0	1,281	1,324	753	453
50%	858	270	276	602	984	779	0	45	186	1,387	1,460	1,342	605
75%	1,411	536	811	1,194	1,553	1,381	521	288	602	1,807	1,885	1,820	713
90%	1,974	890	1,395	1,629	2,393	1,872	1,162	604	1,278	2,756	2,569	2,019	849
100%	3,433	1,985	2,071	3,616	4,200	4,200	2,410	3,502	3,509	3,399	3,189	3,200	1,645
Mean	1,003	379	501	745	1,120	968	331	260	437	1,466	1,612	1,281	610
35 no CVP SJIE													
0%	70	0	0	0	0	0	0	0	0	0	80	81	183
10%	239	0	0	21	156	139	0	0	0	73	829	503	333
25%	470	48	25	148	393	315	0	0	0	1,271	1,308	753	437
50%	858	277	279	524	811	620	0	39	176	1,390	1,440	1,350	550
75%	1,349	543	686	935	1,260	1,154	339	273	603	1,844	1,880	1,831	676
90%	1,966	959	1,137	1,312	2,060	1,602	782	555	1,053	2,992	2,481	2,045	800
100%	3,433	3,287	2,051	2,798	3,748	3,847	2,144	3,502	3,467	3,351	3,189	3,230	1,497
Mean	984	414	439	624	961	821	247	245	413	1,497	1,563	1,299	575
45 no CVP SJIE													
0%	71	0	0	0	0	0	0	0	0	0	82	82	178
10%	250	0	0	21	156	139	0	0	0	43	834	503	322
25%	470	48	25	148	350	279	0	0	0	1,244	1,305	753	422
50%	858	277	267	442	700	528	0	18	159	1,394	1,440	1,352	531
75%	1,349	534	589	797	1,065	1,025	226	257	606	1,845	1,900	1,832	658
90%	1,966	884	984	1,222	1,819	1,415	592	450	1,064	2,999	2,476	2,045	756
100%	3,439	3,287	1,987	2,366	3,324	3,736	2,011	3,473	3,412	3,309	3,189	3,210	1,399
Mean	985	403	397	551	858	729	196	228	408	1,498	1,564	1,300	551
55 w/WSAs no CVP SJIE													
0%	71	0	0	0	0	0	0	0	0	0	78	82	181
10%	238	0	0	21	157	140	0	0	0	38	815	503	332
25%	470	48	23	148	347	279	0	0	0	1,222	1,302	753	418
50%	858	277	268	441	654	528	0	24	148	1,388	1,440	1,352	527
75%	1,349	530	635	791	1,128	996	234	236	606	1,847	1,880	1,833	658
90%	1,964	892	991	1,134	1,821	1,399	495	446	1,056	2,993	2,479	2,045	735
100%	3,436	3,287	1,987	2,798	3,324	3,736	1,877	3,405	3,357	3,266	3,190	3,233	1,301
Mean	984	400	393	540	850	707	175	219	403	1,490	1,559	1,297	545
55 no CVP SJIE													
0%	71	0	0	0	0	0	0	0	0	0	111	84	170
10%	240	0	0	21	156	139	0	0	0	13	862	503	293
25%	472	48	25	151	298	234	0	0	0	1,211	1,302	753	404
50%	863	277	229	377	571	424	0	1	132	1,399	1,440	1,364	515
75%	1,347	528	515	656	937	850	101	193	594	1,878	1,902	1,833	635
90%	1,964	864	853	1,058	1,656	1,397	413	341	1,052	3,009	2,527	2,041	712
100%	3,450	3,287	1,945	1,935	3,324	3,626	1,877	3,405	3,357	3,266	3,239	3,233	1,301
Mean	986	390	352	478	753	634	149	201	399	1,498	1,569	1,303	527
65 no CVP SJIE													
0%	80	0	0	0	0	0	0	0	0	0	116	105	161
10%	245	0	0	22	141	107	0	0	0	2	869	521	283
25%	476	50	24	129	251	184	0	0	0	1,179	1,291	761	372
50%	866	278	176	297	443	328	0	0	94	1,406	1,454	1,391	494
75%	1,352	495	415	516	754	655	11	103	620	1,905	1,901	1,867	607
90%	1,969	817	696	828	1,632	1,211	305	254	1,061	2,996	2,530	2,047	706
100%	3,455	3,288	1,921	1,916	3,308	3,516	1,746	3,344	3,309	3,241	3,236	3,230	1,205
Mean	989	378	307	401	646	539	109	172	387	1,499	1,577	1,321	504

Table H1a4-128. Water Year Average of Monthly Flows (cfs) — Spring Creek Conduit

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	744	136	196	219	831	438	12	275	649	2,105	1,526	638
D	911	351	286	280	1,126	775	49	53	551	1,574	1,869	1,378
BN	1,089	250	212	725	709	848	277	61	415	1,117	1,534	1,192
AN	1,058	421	593	1,147	1,374	1,075	382	252	219	1,249	1,539	1,342
W	1,132	593	969	1,220	1,428	1,424	721	533	342	1,353	1,547	1,584
All	1,003	379	501	745	1,120	968	331	260	437	1,466	1,612	1,281
35 no CVP SJIE												
C	748	151	175	211	784	367	9	256	631	2,315	1,326	788
D	903	407	270	249	1,058	674	33	52	545	1,569	1,830	1,371
BN	1,018	398	191	647	589	775	220	58	411	1,114	1,533	1,166
AN	1,027	457	557	954	1,076	844	322	230	146	1,249	1,537	1,342
W	1,132	554	815	971	1,173	1,189	517	506	309	1,350	1,522	1,585
All	984	414	439	624	961	821	247	245	413	1,497	1,563	1,299
45 no CVP SJIE												
C	749	151	161	202	753	352	6	248	634	2,314	1,333	792
D	904	401	255	235	1,007	602	21	45	545	1,584	1,842	1,374
BN	1,018	393	174	594	518	715	182	54	410	1,114	1,537	1,166
AN	1,029	445	519	833	914	714	268	185	132	1,248	1,534	1,342
W	1,132	529	720	830	999	1,039	407	479	297	1,342	1,513	1,585
All	985	403	397	551	858	729	196	228	408	1,498	1,564	1,300
55 w/WSAs no CVP SJIE												
C	746	151	175	211	782	367	8	256	634	2,319	1,331	780
D	902	394	261	235	1,030	627	22	50	548	1,564	1,836	1,373
BN	1,017	387	174	608	523	720	201	53	405	1,106	1,534	1,166
AN	1,027	439	525	872	941	713	257	179	128	1,249	1,531	1,342
W	1,131	528	691	763	926	937	325	446	281	1,335	1,503	1,583
All	984	400	393	540	850	707	175	219	403	1,490	1,559	1,297
55 no CVP SJIE												
C	753	151	147	189	718	326	3	235	628	2,312	1,334	790
D	905	392	234	220	954	530	11	33	540	1,598	1,874	1,388
BN	1,018	387	158	541	440	649	145	45	408	1,115	1,541	1,172
AN	1,027	430	475	713	750	581	220	123	123	1,248	1,529	1,342
W	1,133	503	622	686	823	887	303	436	278	1,333	1,503	1,583
All	986	390	352	478	753	634	149	201	399	1,498	1,569	1,303
65 no CVP SJIE												
C	757	153	134	172	682	300	0	226	617	2,304	1,335	795
D	908	383	213	198	898	459	3	25	517	1,600	1,886	1,413
BN	1,022	382	140	486	361	582	113	38	406	1,118	1,567	1,195
AN	1,026	417	430	593	588	450	181	63	118	1,257	1,536	1,373
W	1,136	477	523	542	648	734	212	381	263	1,334	1,502	1,593
All	989	378	307	401	646	539	109	172	387	1,499	1,577	1,321

H1a4.4.13 Robbs Peak Tunnel

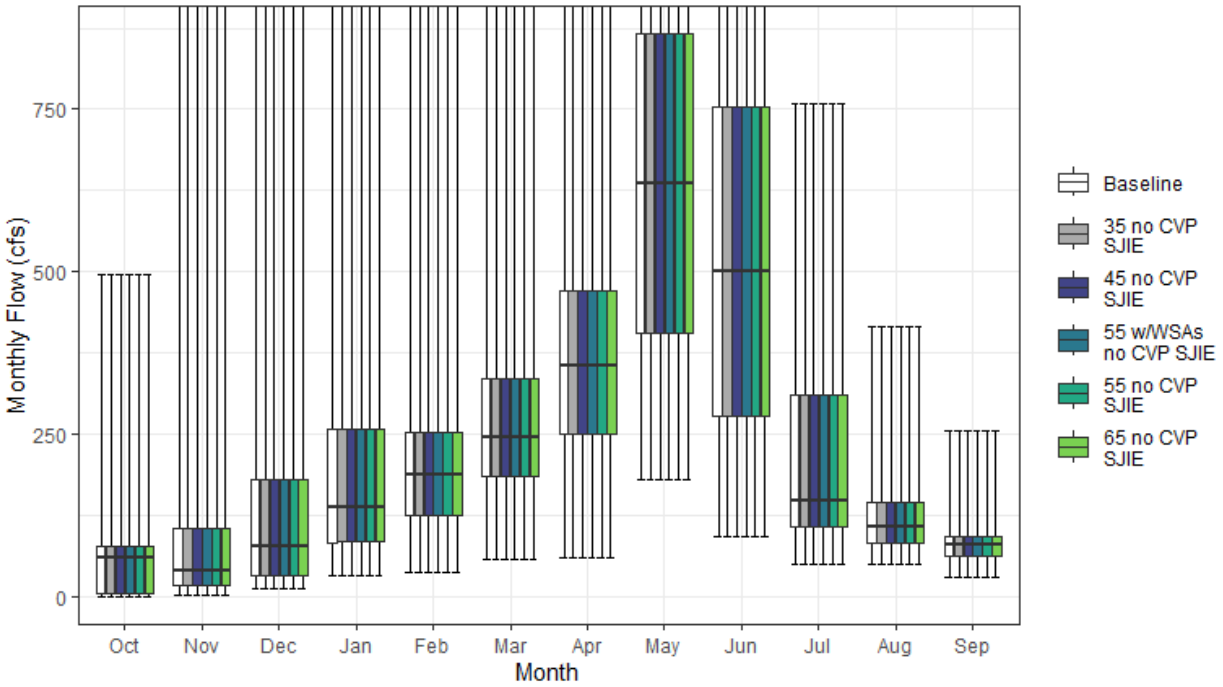

Figure H1a4-65. Robbs Peak Tunnel Monthly Boxplot (cfs)

Table H1a4-129. Cumulative Distribution of Monthly Flow (cfs) — Robbs Peak Tunnel

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	2	12	31	36	58	59	180	92	50	48	29	50
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	61	40	76	138	187	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	470	866	753	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	533	220	119	83	181
35 no CVP SJIE													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
45 no CVP SJIE													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
55 w/WSAs no CVP SJIE													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
55 no CVP SJIE													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
65 no CVP SJIE													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181

Table H1a4-130. Water Year Average of Monthly Flows (cfs) — Robbs Peak Tunnel

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	47	32	46	64	100	142	175	289	240	90	78	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	533	220	119	83
35 no CVP SJIE												
C	47	32	46	64	100	142	175	289	240	90	78	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
45 no CVP SJIE												
C	47	32	46	64	100	142	175	289	240	90	78	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
55 w/WSAs no CVP SJIE												
C	47	32	46	64	100	142	175	289	240	90	77	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
55 no CVP SJIE												
C	47	32	46	64	100	142	175	289	240	90	77	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
65 no CVP SJIE												
C	47	32	46	64	100	142	175	289	240	90	77	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82

H1a4.4.14 Lake Valley Canal

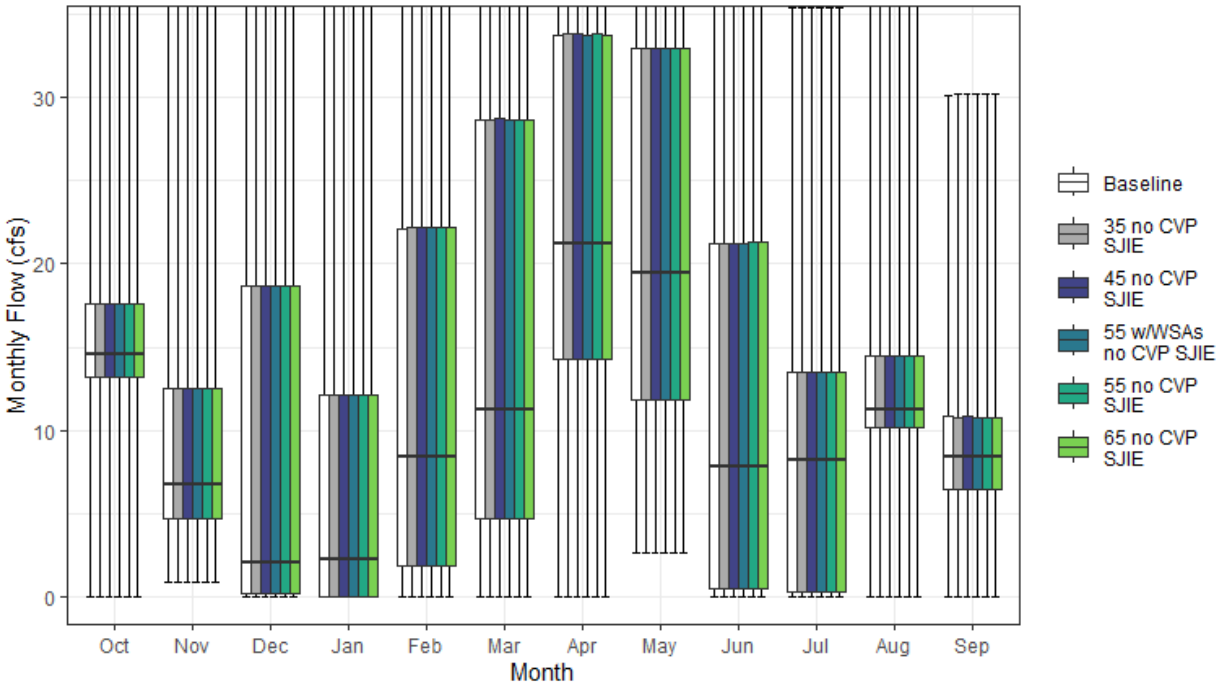

Figure H1a4-66. Lake Valley Canal Monthly Boxplot (cfs)

Table H1a4-131. Cumulative Distribution of Monthly Flow (cfs) — Lake Valley Canal

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual (TAF)
Baseline													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	13	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10
35 no CVP SJIE													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	13	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10
45 no CVP SJIE													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	13	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10
55 w/WSAs no CVP SJIE													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	13	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10
55 no CVP SJIE													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	14	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10
65 no CVP SJIE													
0%	0	1	0	0	0	0	0	3	0	0	0	0	2
10%	13	4	0	0	0	1	6	7	0	0	2	6	6
25%	13	5	0	0	2	5	14	12	0	0	10	6	7
50%	15	7	2	2	8	11	21	20	8	8	11	8	9
75%	18	12	19	12	22	29	34	33	21	13	14	11	12
90%	21	21	35	35	36	42	42	42	40	21	17	14	15
100%	42	42	42	42	42	42	42	42	42	35	42	30	22
Mean	16	11	10	9	13	17	23	23	13	9	11	9	10

Table H1a4-132. Water Year Average of Monthly Flows (cfs) — Lake Valley Canal

Water Year Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Baseline												
C	15	7	4	2	5	14	19	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
35 no CVP SJIE												
C	15	7	4	2	5	14	20	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
45 no CVP SJIE												
C	15	7	3	2	5	14	19	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
55 w/WSAs no CVP SJIE												
C	15	7	4	2	5	14	20	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
55 no CVP SJIE												
C	15	7	4	2	5	14	19	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
65 no CVP SJIE												
C	15	7	3	2	5	14	19	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9

H1a4.5 Reservoir Storage

SacWAM dynamically simulates storage regulation in most major reservoirs in the Sacramento Valley and Delta Eastside Tributaries. Storage in smaller reservoirs, including regulating reservoirs that act as forebays and afterbays, are typically not simulated, although they may be represented in the model schematic. Storage in these smaller reservoirs is usually kept constant. For some mid-size reservoirs, storage is constrained to follow historical average monthly values. Reservoirs represented in the model but having storage that does not change in any of the scenarios are considered non-reoperated reservoirs. Results for non-reoperated reservoirs with constant end-of-April and end-of-September storage are listed in Table H1a4-133. Results for these reservoirs are not presented further. Farmington Reservoir and Schaads Reservoir do not store water in SacWAM as currently configured.

Reservoirs that exhibit interannual variability in end-of-April or end-of-September storage but show less than or equal to one percent change from baseline storage during April or September are listed in Table H1a4-134. Reservoirs that exhibit greater than one percent change from baseline storage during April or September are listed in Table H1a4-135.

Results for other reservoirs listed in Tables H1a4-134 and H1a4-135 are presented as end-of-April storage and elevation and end-of-September storage and elevation. SacWAM contains storage-elevation relationships for most of the reoperated reservoirs, allowing average annual fluctuation in reservoir elevation to be calculated as the average of the annual maximum minus minimum water surface elevations (Table H1a4-136).

Table H1a4-133. Non-reoperated Reservoirs with Constant End-of-April and End-of-September Storage (TAF).

Reservoir	Watershed	End-of-April	End-of-September
Belden Reservoir	Feather	2.4	2.4
Buck Island	American	1.1	1.1
Camino Reservoir	American	0.8	0.8
Chili Bar Reservoir	American	3	3
Clifton Court Forebay	Old River	31.3	31.3
Cresta Reservoir	Feather	4.1	4.1
EBMUD Terminal Reservoirs	Offstream Storage	140	118
Englebright Reservoir	Yuba	66.1	65.3
Farmington Reservoir	Littlejohns	0	0
Gerle Creek Reservoir	American	1.3	1.3
Grizzly Reservoir	Feather	1.1	1.1
Junction Reservoir	American	3.2	3.2
Keswick Reservoir	Sacramento	22	22
Lake Combie	Bear	5.2	3.3
Lake Natoma	American	8	8
Lake Tableaud	Mokelumne	1.3	1.3
Lewiston Lake	Trinity	14.7	14.7
Lower Bucks Lake	Feather	5.8	5.8
PGE Old Reservoirs	Mokelumne	7.8	7.2
Poe Reservoir	Feather	1.2	1.2
Rock Creek Reservoir	Feather	4.4	4.4
Rubicon	American	1.4	1.4
Schaads Reservoir	Mokelumne	0	0
Slab Creek Reservoir	American	16.6	16.6
Thermalito Afterbay	Feather	38	38
Upper Bear	Mokelumne	7	1.6

Table H1a4-134. Reservoirs with Interannual Variability in End-of-April or End-of-September Storage but with no Change in Storage Greater than One Percent Relative to Baseline in April or September.

Reservoir	Watershed
Antelope Reservoir	Feather
Caples Lake	American
Frenchman Lake	Feather
Ice House	American
Jenkinson Lake	Cosumnes
Lake Aloha	American
Lake Davis	Feather
Lake Valley	American
Little Grass Valley Reservoir	Feather
Loon Lake	American
Merle Collins Reservoir	Yuba
Philbrook Round Valley	Feather
Silver Lake	American
Sly Creek Reservoir	Feather
Union Valley Reservoir	American

Table H1a4-135. Reservoirs with a Change in Storage Relative to Baseline Greater than One Percent in April or September.

Reservoir	Watershed
Black Butte Reservoir	Stony
Bowman Lake	Yuba
Bucks Lake	Feather
Butt Valley	Feather
Camanche Reservoir	Mokelumne
Camp Far West	Bear
Clear Lake	Cache
CVP San Luis Reservoir	South of Delta Offstream
East Park Reservoir	Stony
Folsom Lake	American
French Lake	Yuba
French Meadows	American
Hell Hole	American
Indian Valley Reservoir	Cache
Jackson Meadows Reservoir	Yuba
Lake Almanor	Feather
Lake Amador	Mokelumne
Lake Berryessa	Putah
Lake Fordyce	Yuba
Lake Spaulding	Yuba
Los Vaqueros Reservoir	Kellogg
Lower Bear	Mokelumne
Mountain Meadows Reservoir	Feather
New Bullards Bar Reservoir	Yuba
New Hogan Reservoir	Calaveras
Oroville Reservoir	Feather
Pardee Reservoir	Mokelumne
Rollins Reservoir	Bear
Salt Springs	Mokelumne
Scotts Flat Reservoir	Yuba
Shasta Lake	Sacramento
Stony Gorge Reservoir	Stony
Stumpy Meadows	American
SWP San Luis Reservoir	South of Delta Offstream
Total San Luis Reservoir	South of Delta Offstream
Trinity Reservoir	Trinity
Whiskeytown Reservoir	Clear

Table H1a4-136. Average Annual Change in Elevation for Reservoirs with Elevational Changes Calculated by SacWAM (ft).

Reservoir	Watershed	Baseline	Flow Scenario Minus Baseline				
			35 no CVP SJIE	45 no CVP SJIE	55 no CVP SJIE	55 w/WSAs no CVP SJIE	65 no CVP SJIE
Black Butte Reservoir	Stony	32.1	-3.8	-5.4	-8.2	-4.8	-12.3
Bowman Lake	Yuba	54.6	-1	-0.9	-1	-0.1	-1.8
Bucks Lake	Feather	22.2	0	0	0	0	0.2
Butt Valley	Feather	3.1	0	0	0	0	0
Camanche Reservoir	Mokelumne	23	-5.8	-7.2	-8.1	-6.1	-8.9
Camp Far West	Bear	39.9	-1.1	-2	-2.5	-0.6	-3.1
Clear Lake	Cache	5.8	-0.2	-0.3	-0.4	-0.3	-0.5
East Park Reservoir	Stony	10.7	5	7.2	10.5	7.4	14.5
Folsom Lake	American	48.2	-3.3	-7.6	-12.7	-8.4	-9.1
French Meadows	American	65.7	0	-0.1	-0.9	-0.1	-3.9
Hell Hole	American	102.7	-0.1	-0.3	-2.7	-0.2	-3.4
Indian Valley Reservoir	Cache	50	2.6	2.8	0.9	3.7	-4
Jackson Meadows Reservoir	Yuba	38.2	-0.4	-0.6	-1.5	-0.6	-4.4
Lake Almanor	Feather	8.8	0	0	0	0	0
Lake Berryessa	Putah	20.4	-5.4	-6.8	-8.1	-1.2	-9.2
Lake Fordyce	Yuba	67.8	-0.9	-2.1	-7.2	-3	-15.8
Lake Spaulding	Yuba	107.6	-0.6	-1.4	-2.7	-0.8	-4.9
Los Vaqueros Reservoir	Kellogg	14.1	0.3	-0.2	-1.2	1.2	1.7
Lower Bear	Mokelumne	87.5	0	0.3	-0.4	0	-3.7
New Bullards Bar Reservoir	Yuba	91.7	-10.9	-11.6	-14.9	-4.1	-26.4
New Hogan Reservoir	Calaveras	36.5	-10.6	-11.6	-15.2	-11.1	-15.5
Oroville Reservoir	Feather	152	-17.8	-29.1	-42.4	-30.4	-65.9
Pardee Reservoir	Mokelumne	18.9	-0.6	-0.5	-0.7	1.6	-1.2
Rollins Reservoir	Bear	11.7	0.1	-0.2	0.7	0.1	3.5
Salt Springs	Mokelumne	184.8	-3.6	-9.3	-17.8	-1.8	-30.1
Scotts Flat Reservoir	Yuba	28.5	0	0	0.1	0.1	0.2
Shasta Lake	Sacramento	71.1	-4.4	-3.1	-0.1	-5.3	-7
Stony Gorge Reservoir	Stony	11.8	6.7	9.3	13.6	9.9	18.1
San Luis Reservoir Total	SOD	125.1	2.9	-0.8	0.5	-0.8	9.2
Trinity Reservoir	Offstream Trinity	66.5	-0.8	-0.8	-0.8	-0.8	-0.8
Whiskeytown Reservoir	Clear	10.2	0	0	0	0	0

H1a4.5.1 Antelope Reservoir (Feather River Watershed)

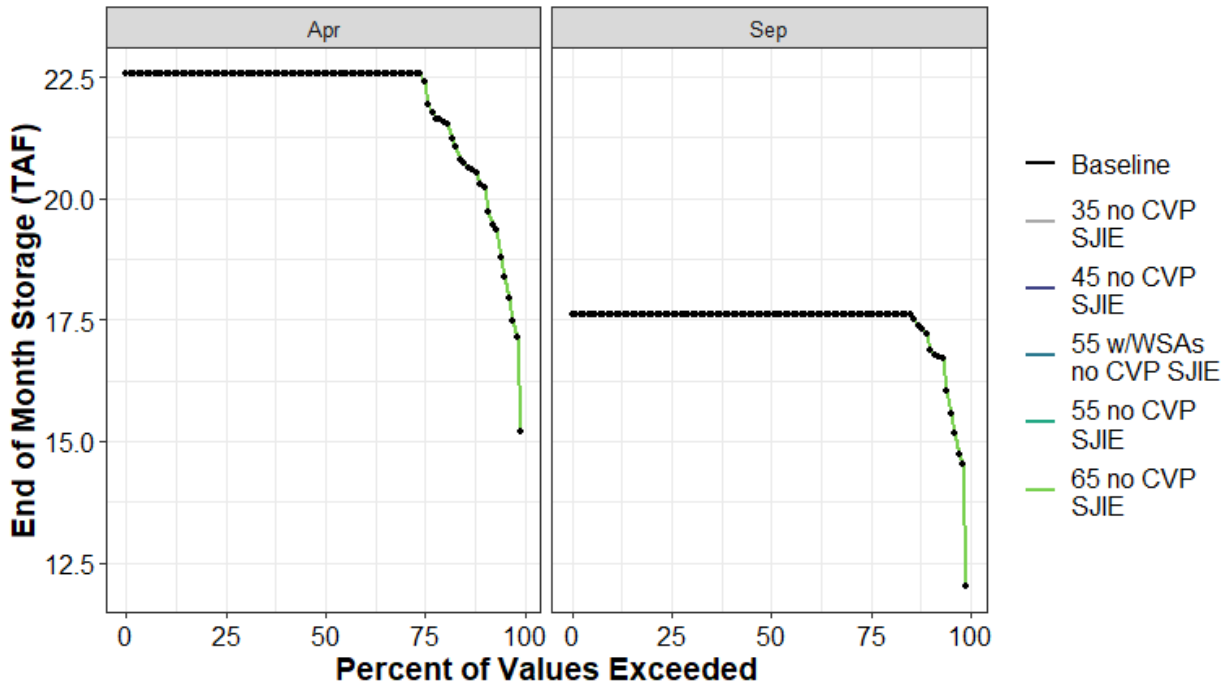

Figure H1a4-67. Antelope Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

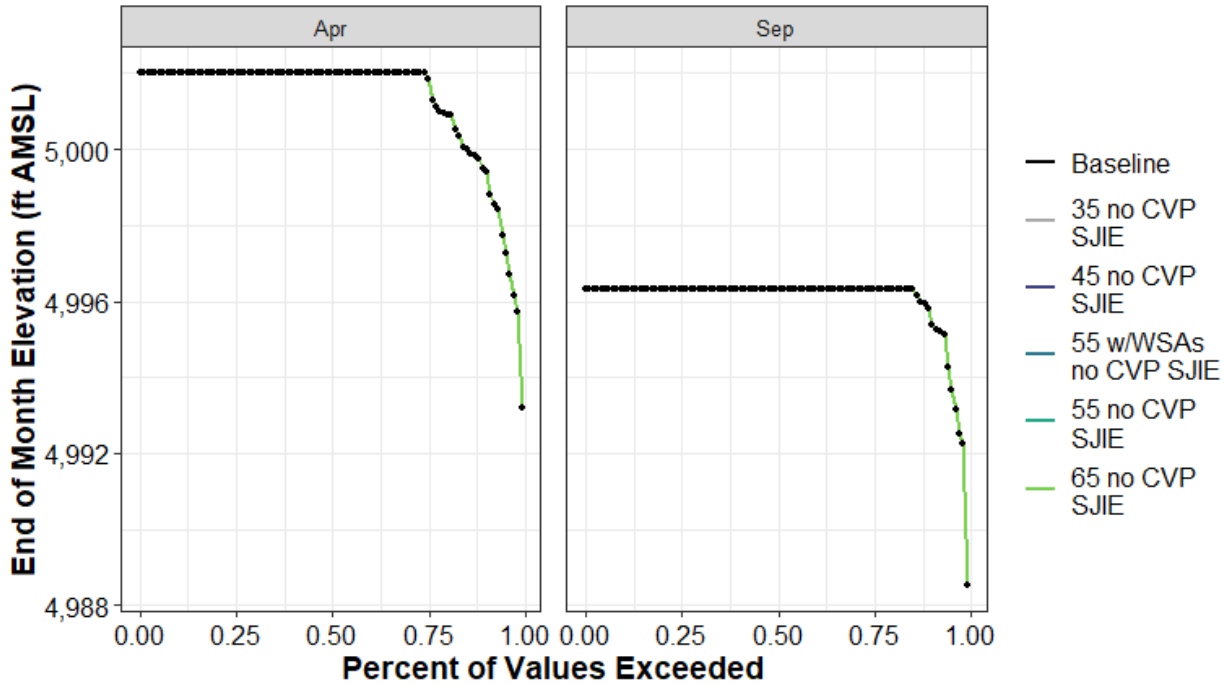

Figure H1a4-68. Antelope Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-137. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	12	0	0	0	0	0
10%	17	0	0	0	0	0
25%	18	0	0	0	0	0
50%	18	0	0	0	0	0
75%	18	0	0	0	0	0
90%	18	0	0	0	0	0
100%	18	0	0	0	0	0
Mean	17	0	0	0	0	0

Table H1a4-138. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,989	0	0	0	0	0
10%	4,996	0	0	0	0	0
25%	4,996	0	0	0	0	0
50%	4,996	0	0	0	0	0
75%	4,996	0	0	0	0	0
90%	4,996	0	0	0	0	0
100%	4,996	0	0	0	0	0
Mean	4,996	0	0	0	0	0

Table H1a4-139. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	15	0	0	0	0	0
10%	20	0	0	0	0	0
25%	22	0	0	0	0	0
50%	23	0	0	0	0	0
75%	23	0	0	0	0	0
90%	23	0	0	0	0	0
100%	23	0	0	0	0	0
Mean	22	0	0	0	0	0

Table H1a4-140. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,993	0	0	0	0	0
10%	4,999	0	0	0	0	0
25%	5,002	0	0	0	0	0
50%	5,002	0	0	0	0	0
75%	5,002	0	0	0	0	0
90%	5,002	0	0	0	0	0
100%	5,002	0	0	0	0	0
Mean	5,001	0	0	0	0	0

H1a4.5.2 Black Butte Reservoir (Stony Creek Watershed)

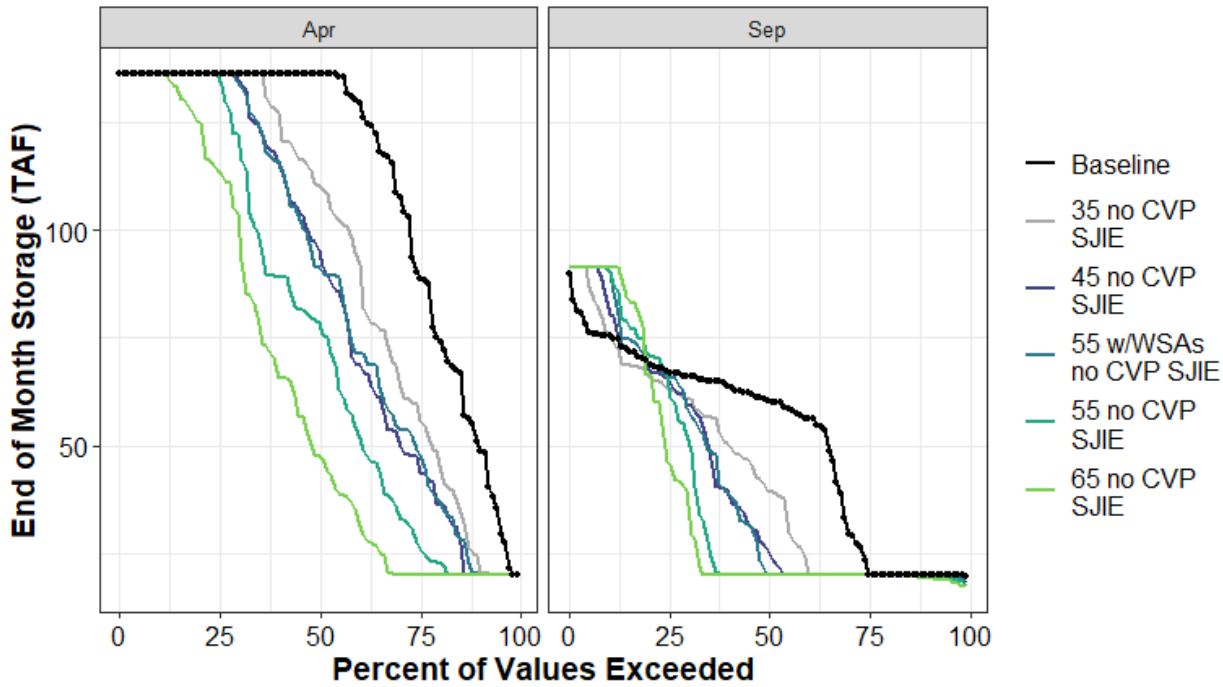

Figure H1a4-69. Black Butte Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

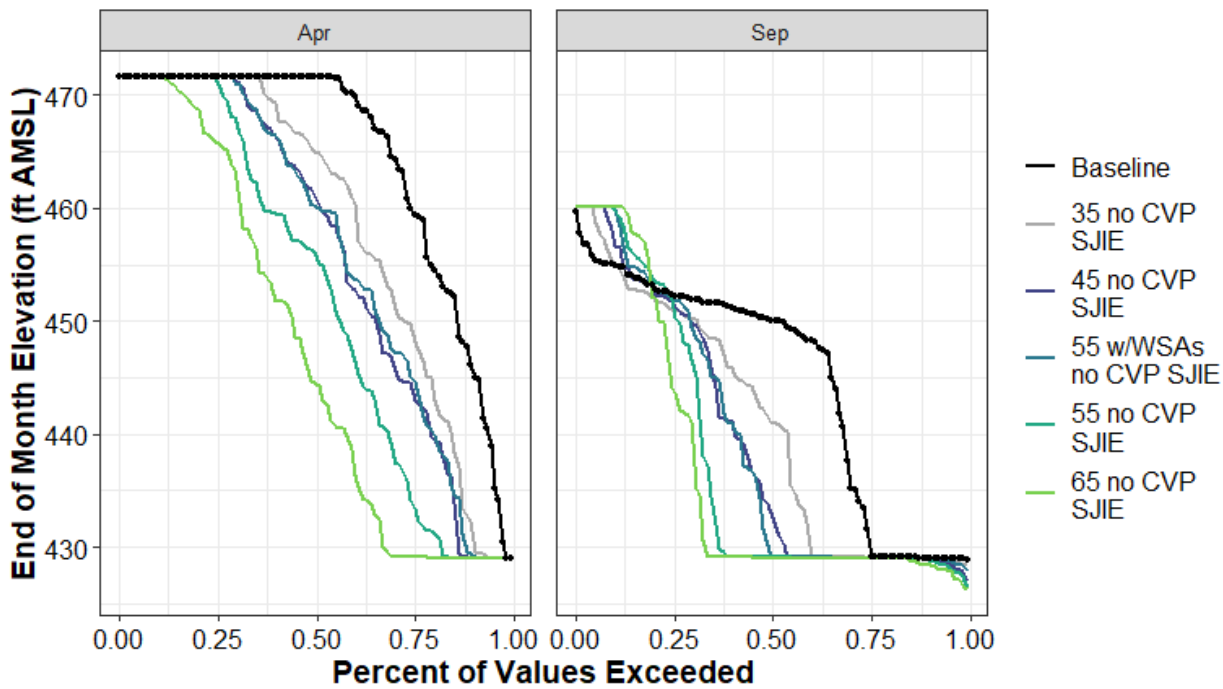

Figure H1a4-70. Black Butte Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-141. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	20	0	-2	-1	-2	-2
10%	20	0	0	0	0	-1
25%	22	-2	-2	-2	-2	-2
50%	61	-21	-35	-41	-41	-41
75%	67	-4	-2	-1	-3	-21
90%	75	0	6	15	15	16
100%	90	1	1	1	1	1
Mean	52	-8	-11	-10	-13	-15

Table H1a4-142. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	429	0	-2	-1	-3	-3
10%	429	0	0	0	0	-1
25%	430	-1	-1	-1	-1	-1
50%	450	-9	-17	-21	-21	-21
75%	452	-1	-1	0	-1	-8
90%	455	0	2	5	5	5
100%	460	0	0	0	0	0
Mean	445	-4	-5	-5	-7	-8

Table H1a4-143. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	20	0	0	0	0	0
10%	51	-27	-31	-30	-31	-31
25%	90	-32	-44	-41	-63	-70
50%	136	-26	-41	-45	-58	-89
75%	136	0	0	0	-1	-23
90%	136	0	0	0	0	0
100%	136	0	0	0	0	0
Mean	112	-17	-25	-24	-36	-48

Table H1a4-144. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	429	0	0	0	0	0
10%	446	-14	-17	-17	-17	-17
25%	460	-11	-16	-15	-26	-31
50%	472	-7	-10	-11	-16	-27
75%	472	0	0	0	0	-6
90%	472	0	0	0	0	0
100%	472	0	0	0	0	0
Mean	464	-6	-8	-8	-12	-17

H1a4.5.3 Bowman Lake (Yuba River Watershed)

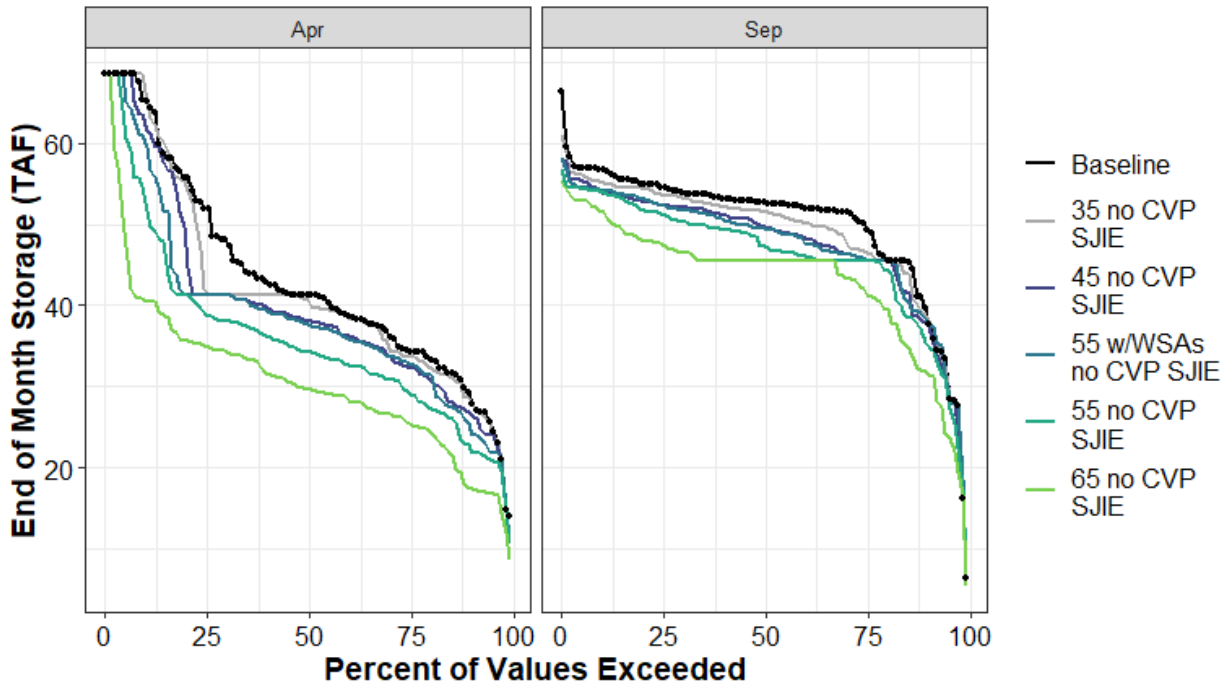

Figure H1a4-71. Bowman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

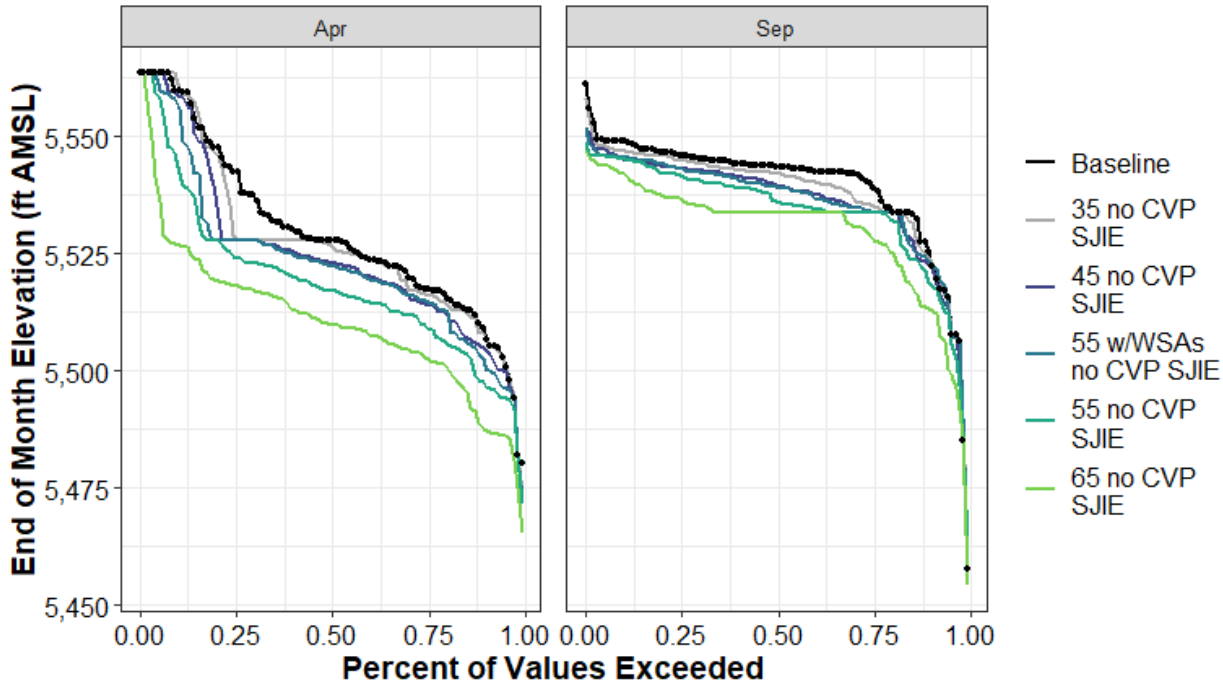

Figure H1a4-72. Bowman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-145. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6	1	1	0	1	-1
10%	39	-1	-2	-1	-4	-8
25%	50	-3	-4	-4	-4	-8
50%	53	-1	-3	-3	-5	-7
75%	54	-1	-2	-2	-3	-7
90%	57	-2	-3	-3	-3	-5
100%	66	-5	-8	-8	-10	-11
Mean	50	-1	-3	-3	-4	-7

Table H1a4-146. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,458	3	3	0	4	-4
10%	5,525	-1	-2	-2	-6	-12
25%	5,540	-4	-6	-6	-6	-11
50%	5,544	-2	-4	-4	-7	-10
75%	5,546	-1	-3	-3	-4	-9
90%	5,549	-2	-4	-3	-4	-7
100%	5,561	-3	-9	-9	-12	-14
Mean	5,539	-2	-3	-4	-5	-10

Table H1a4-147. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	14	-2	-3	-3	-3	-5
10%	29	0	-2	-4	-6	-11
25%	34	-1	-2	-2	-5	-9
50%	41	-1	-3	-4	-7	-12
75%	52	-10	-11	-11	-13	-17
90%	65	1	-3	-5	-13	-25
100%	69	0	0	0	0	0
Mean	43	-1	-3	-4	-7	-13

Table H1a4-148. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,480	-6	-8	-8	-9	-15
10%	5,509	-1	-4	-7	-11	-21
25%	5,517	-1	-3	-2	-8	-15
50%	5,528	-1	-5	-5	-11	-18
75%	5,543	-14	-15	-15	-18	-24
90%	5,560	1	-1	-4	-17	-33
100%	5,564	0	0	0	0	0
Mean	5,530	-2	-5	-6	-11	-19

H1a4.5.4 Bucks Lake (Feather River Watershed)

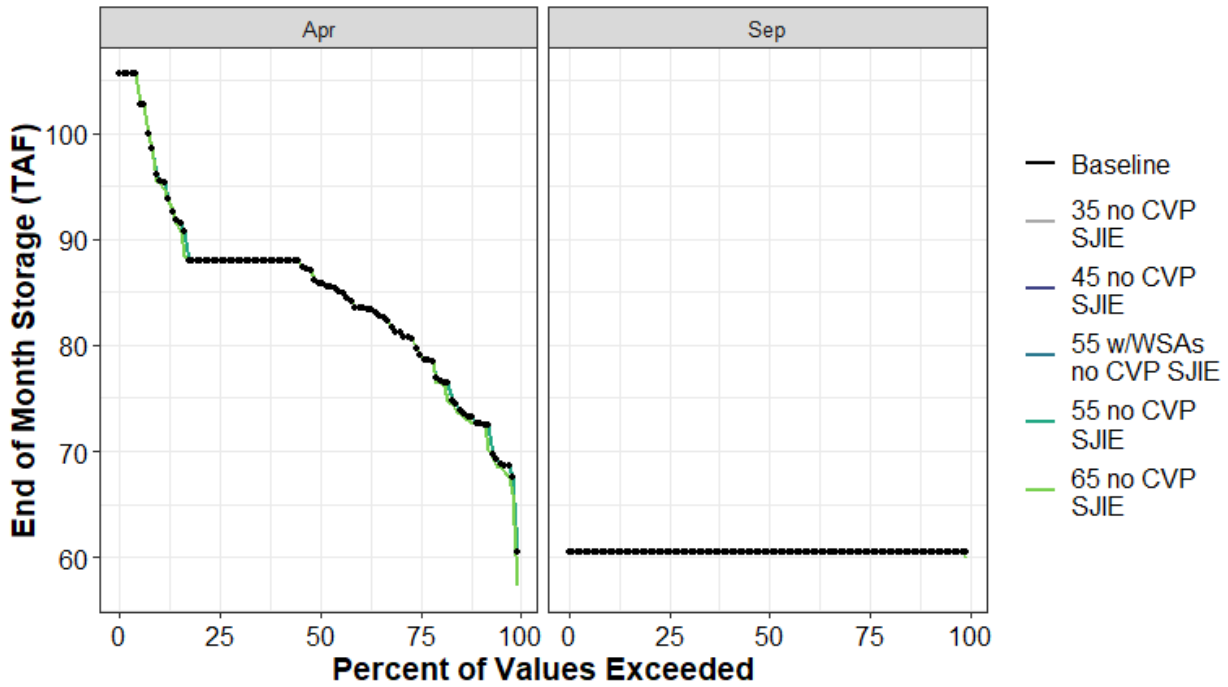

Figure H1a4-73. Bucks Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

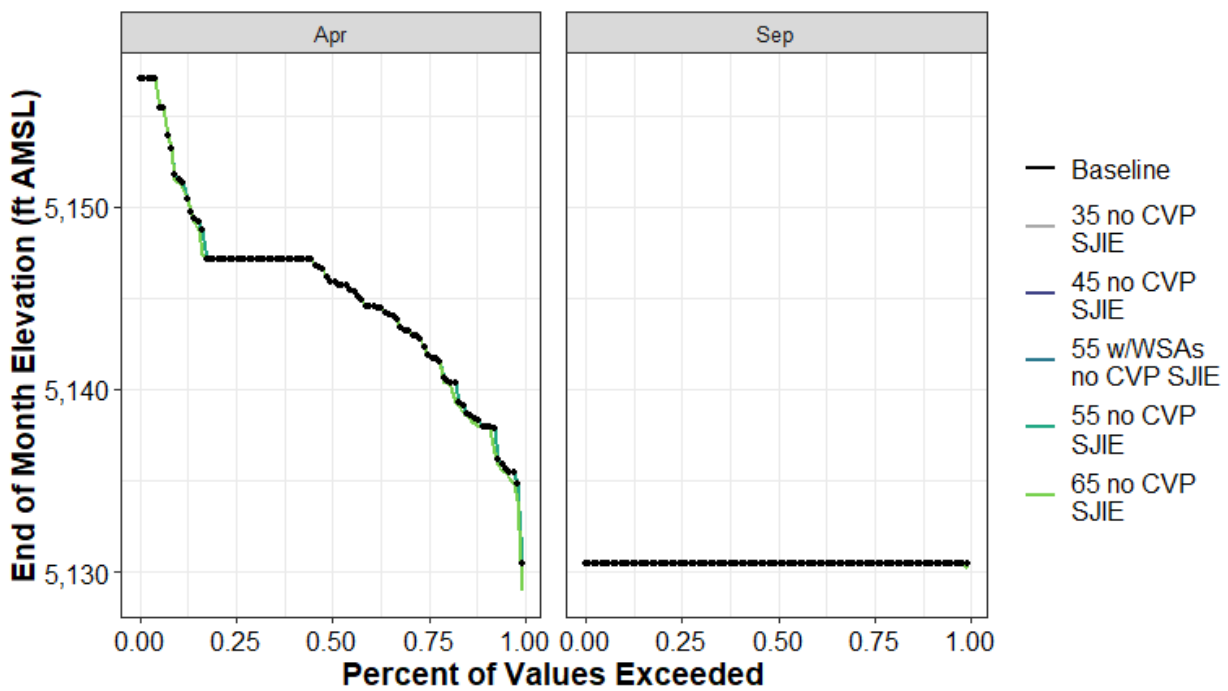

Figure H1a4-74. Bucks Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-149. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	60	0	0	0	0	0
10%	60	0	0	0	0	0
25%	60	0	0	0	0	0
50%	60	0	0	0	0	0
75%	60	0	0	0	0	0
90%	60	0	0	0	0	0
100%	60	0	0	0	0	0
Mean	60	0	0	0	0	0

Table H1a4-150. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,130	0	0	0	0	0
10%	5,130	0	0	0	0	0
25%	5,130	0	0	0	0	0
50%	5,130	0	0	0	0	0
75%	5,130	0	0	0	0	0
90%	5,130	0	0	0	0	0
100%	5,130	0	0	0	0	0
Mean	5,130	0	0	0	0	0

Table H1a4-151. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	60	0	0	0	0	-3
10%	73	0	0	0	0	0
25%	79	0	0	0	0	0
50%	86	0	0	0	0	0
75%	88	0	0	0	0	0
90%	96	0	0	0	0	0
100%	106	0	0	0	0	0
Mean	85	0	0	0	0	0

Table H1a4-152. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,130	0	0	0	0	-2
10%	5,138	0	0	0	0	0
25%	5,142	0	0	0	0	0
50%	5,146	0	0	0	0	0
75%	5,147	0	0	0	0	0
90%	5,152	0	0	0	0	0
100%	5,157	0	0	0	0	0
Mean	5,145	0	0	0	0	0

H1a4.5.5 Butt Valley (Feather River Watershed)

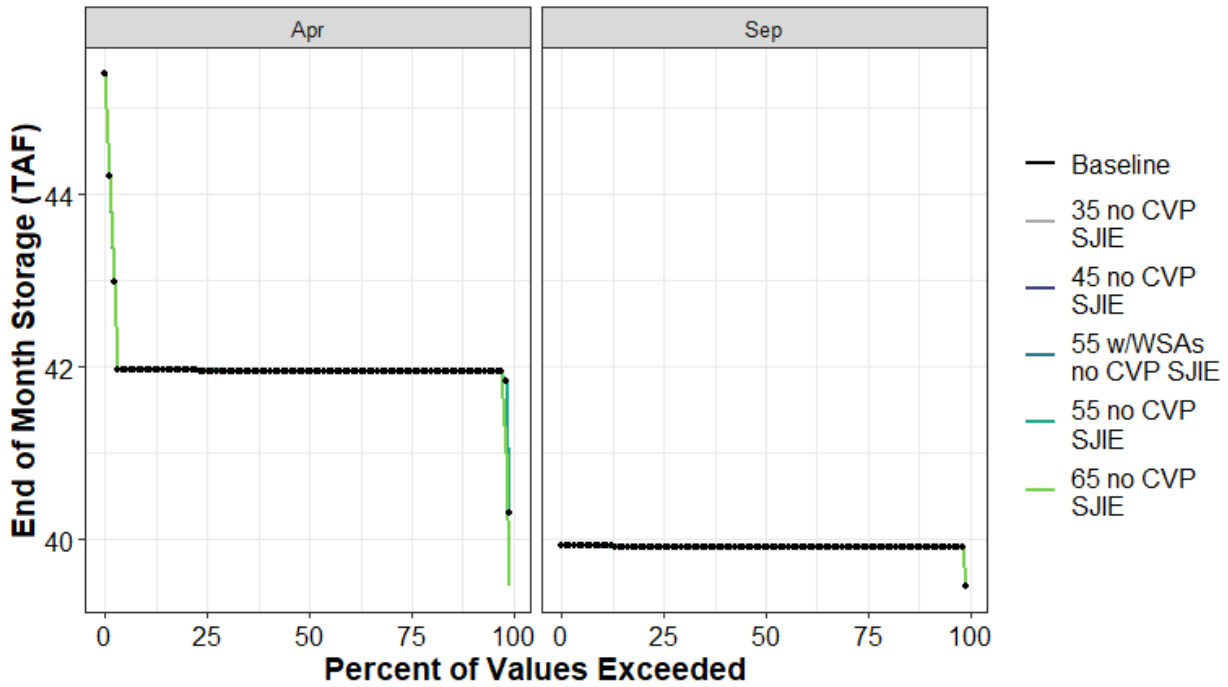

Figure H1a4-75. Butt Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

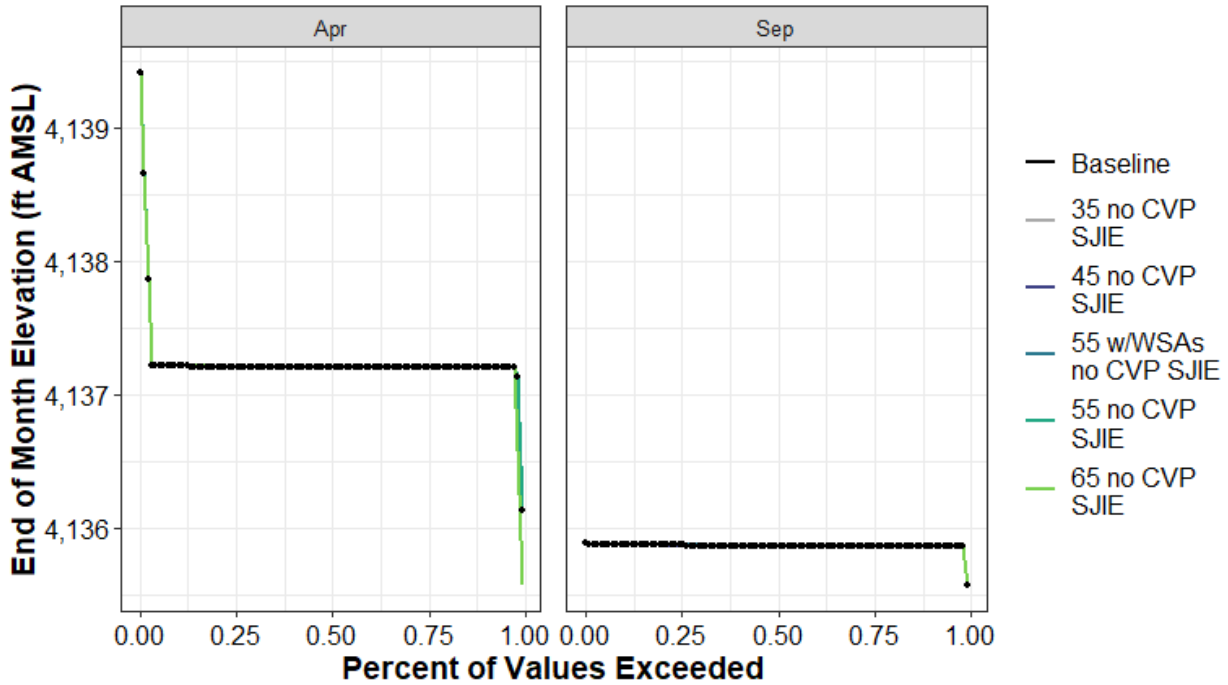

Figure H1a4-76. Butt Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-153. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	39	0	0	0	0	0
10%	40	0	0	0	0	0
25%	40	0	0	0	0	0
50%	40	0	0	0	0	0
75%	40	0	0	0	0	0
90%	40	0	0	0	0	0
100%	40	0	0	0	0	0
Mean	40	0	0	0	0	0

Table H1a4-154. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,136	0	0	0	0	0
10%	4,136	0	0	0	0	0
25%	4,136	0	0	0	0	0
50%	4,136	0	0	0	0	0
75%	4,136	0	0	0	0	0
90%	4,136	0	0	0	0	0
100%	4,136	0	0	0	0	0
Mean	4,136	0	0	0	0	0

Table H1a4-155. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	40	0	0	0	0	-1
10%	42	0	0	0	0	0
25%	42	0	0	0	0	0
50%	42	0	0	0	0	0
75%	42	0	0	0	0	0
90%	42	0	0	0	0	0
100%	45	0	0	0	0	0
Mean	42	0	0	0	0	0

Table H1a4-156. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,136	0	0	0	0	-1
10%	4,137	0	0	0	0	0
25%	4,137	0	0	0	0	0
50%	4,137	0	0	0	0	0
75%	4,137	0	0	0	0	0
90%	4,137	0	0	0	0	0
100%	4,139	0	0	0	0	0
Mean	4,137	0	0	0	0	0

H1a4.5.6 Camanche Reservoir (Mokelumne River Watershed)

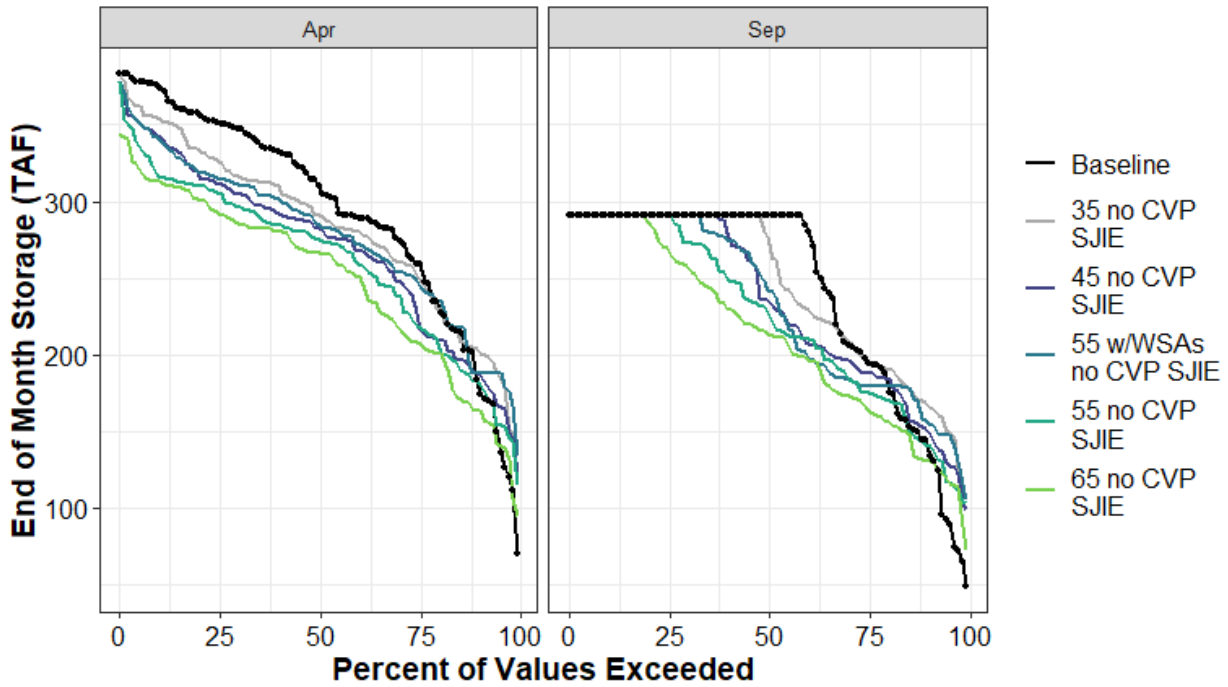

Figure H1a4-77. Camanche Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

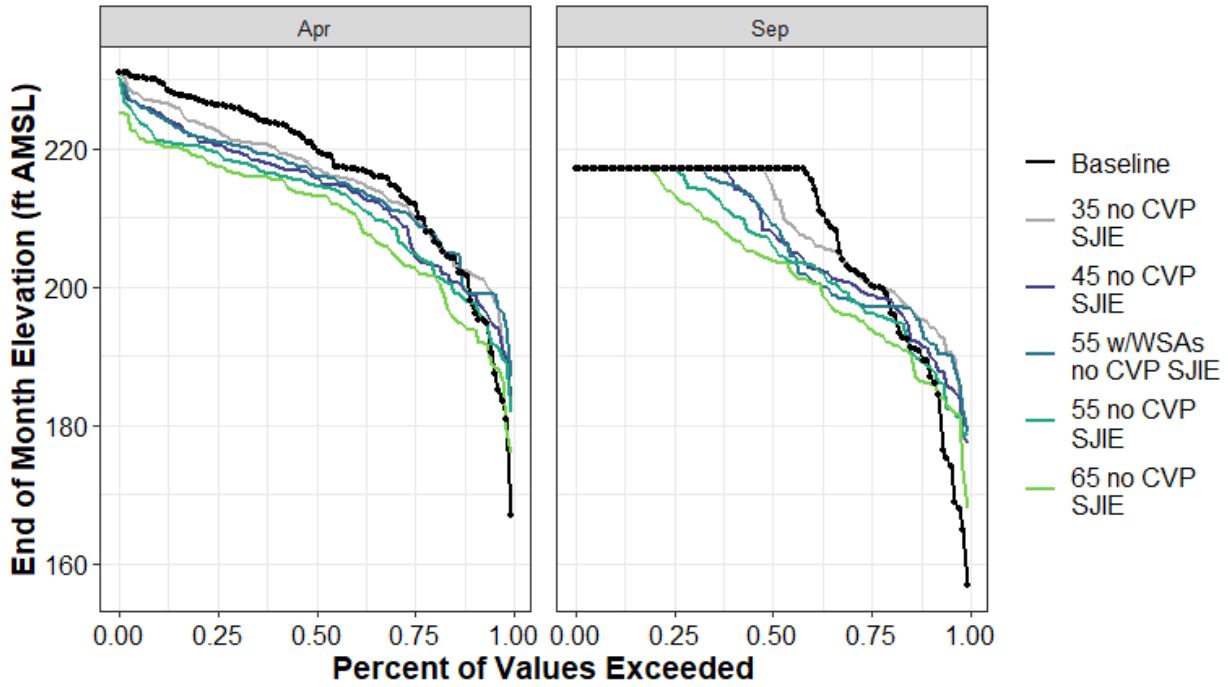

Figure H1a4-78. Camanche Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-157. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	48	51	51	56	55	24
10%	142	26	9	14	-1	-12
25%	196	0	-8	-17	-21	-31
50%	290	-15	-54	-48	-64	-77
75%	290	0	0	0	0	-22
90%	291	0	0	0	0	0
100%	291	0	0	0	0	0
Mean	243	1	-10	-11	-19	-30

Table H1a4-158. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	157	21	20	22	22	11
10%	189	6	2	3	0	-3
25%	201	0	-2	-3	-4	-6
50%	217	-2	-9	-8	-11	-13
75%	217	0	0	0	0	-4
90%	217	0	0	0	0	0
100%	217	0	0	0	0	0
Mean	208	1	-1	-1	-3	-5

Table H1a4-159. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	69	73	53	65	45	25
10%	182	21	6	6	0	-19
25%	259	-9	-38	-13	-41	-52
50%	310	-20	-28	-25	-35	-44
75%	351	-25	-40	-36	-46	-59
90%	374	-20	-32	-34	-58	-61
100%	383	0	-5	-5	-5	-39
Mean	294	-10	-24	-16	-33	-45

Table H1a4-160. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	167	22	17	20	15	9
10%	198	4	1	1	0	-4
25%	212	-2	-7	-2	-7	-9
50%	220	-3	-4	-4	-6	-7
75%	226	-4	-6	-5	-7	-9
90%	230	-3	-5	-5	-8	-9
100%	231	0	-1	-1	-1	-6
Mean	217	-1	-3	-2	-5	-7

H1a4.5.7 Camp Far West (Bear River Watershed)

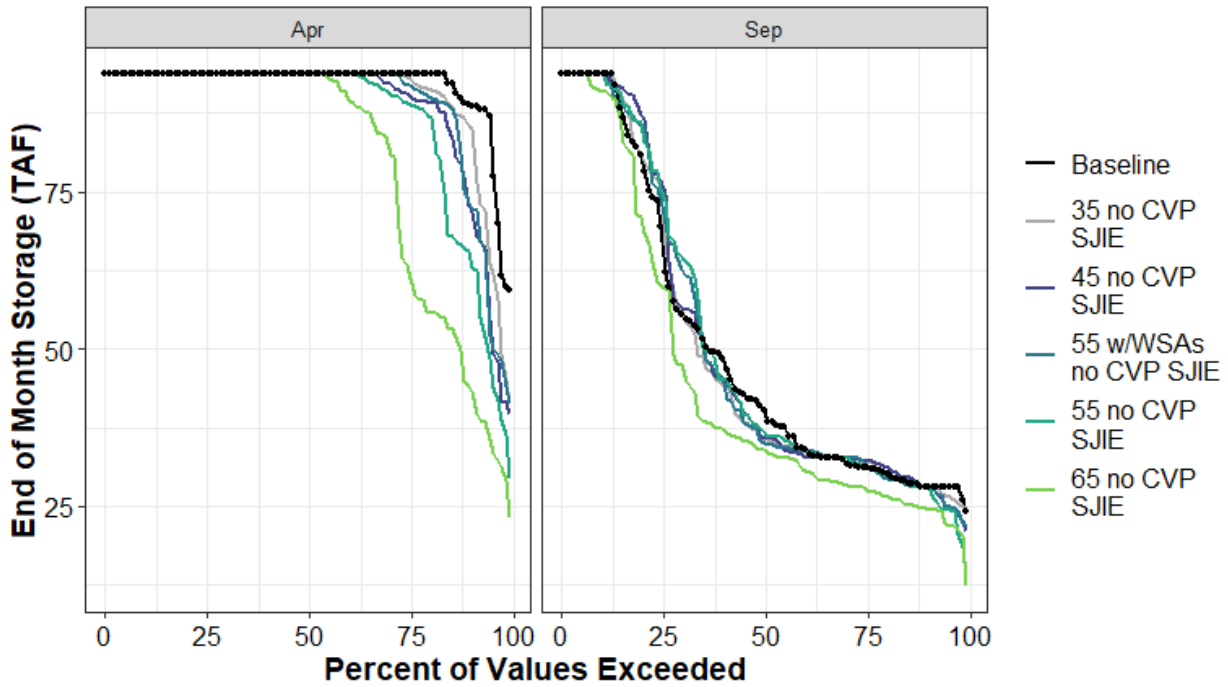

Figure H1a4-79. Camp Far West End of April and End of September Storage (TAF) Percent Exceedance Plot

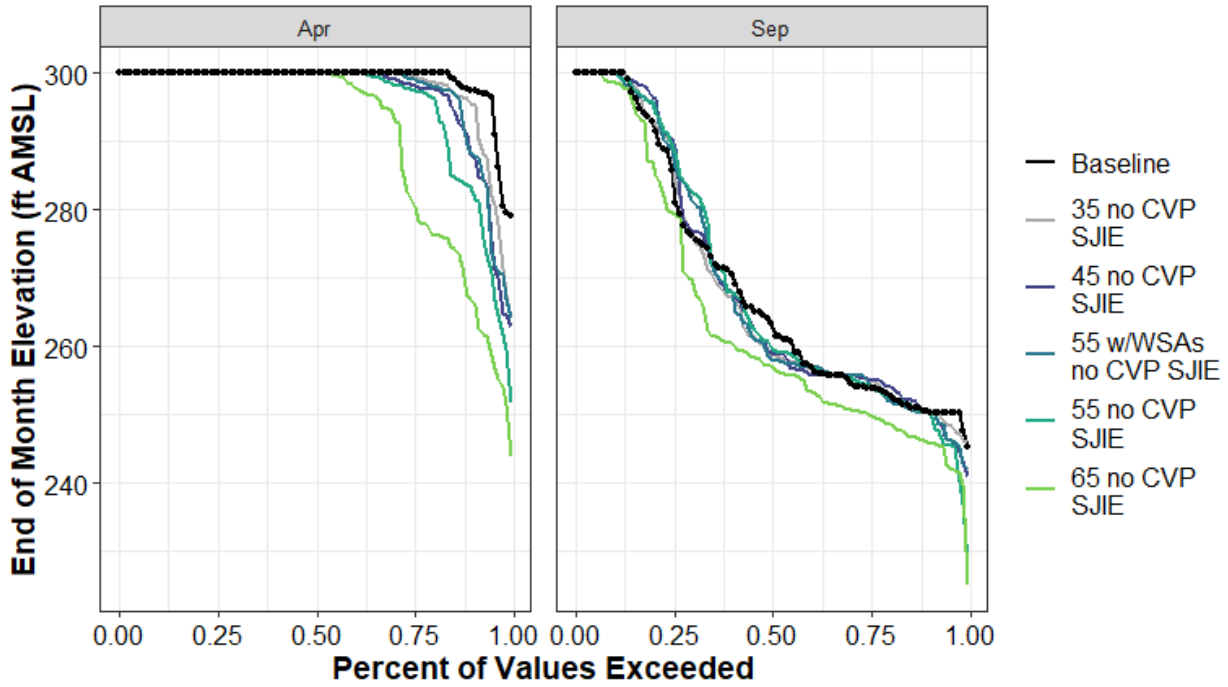

Figure H1a4-80. Camp Far West Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-161. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	24	1	-3	-2	-10	-12
10%	28	0	0	0	0	-4
25%	31	1	1	1	0	-3
50%	40	-5	-4	-5	-4	-6
75%	66	6	10	6	9	-6
90%	94	0	0	0	0	-3
100%	94	0	0	0	0	0
Mean	50	0	0	0	0	-5

Table H1a4-162. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	245	1	-4	-3	-17	-20
10%	250	0	0	0	0	-5
25%	254	1	1	1	0	-4
50%	263	-5	-4	-5	-4	-6
75%	283	4	6	4	6	-4
90%	300	0	0	0	0	-1
100%	300	0	0	0	0	0
Mean	269	-1	0	0	0	-5

Table H1a4-163. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	60	-18	-20	-18	-30	-36
10%	89	-3	-16	-16	-24	-45
25%	94	-1	-3	-2	-5	-31
50%	94	0	0	0	0	0
75%	94	0	0	0	0	0
90%	94	0	0	0	0	0
100%	94	0	0	0	0	0
Mean	92	-2	-3	-3	-6	-12

Table H1a4-164. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	279	-15	-16	-15	-27	-35
10%	297	-2	-10	-9	-14	-31
25%	300	0	-2	-1	-2	-19
50%	300	0	0	0	0	0
75%	300	0	0	0	0	0
90%	300	0	0	0	0	0
100%	300	0	0	0	0	0
Mean	299	-1	-2	-2	-4	-8

H1a4.5.8 Caples Lake (American River Watershed)

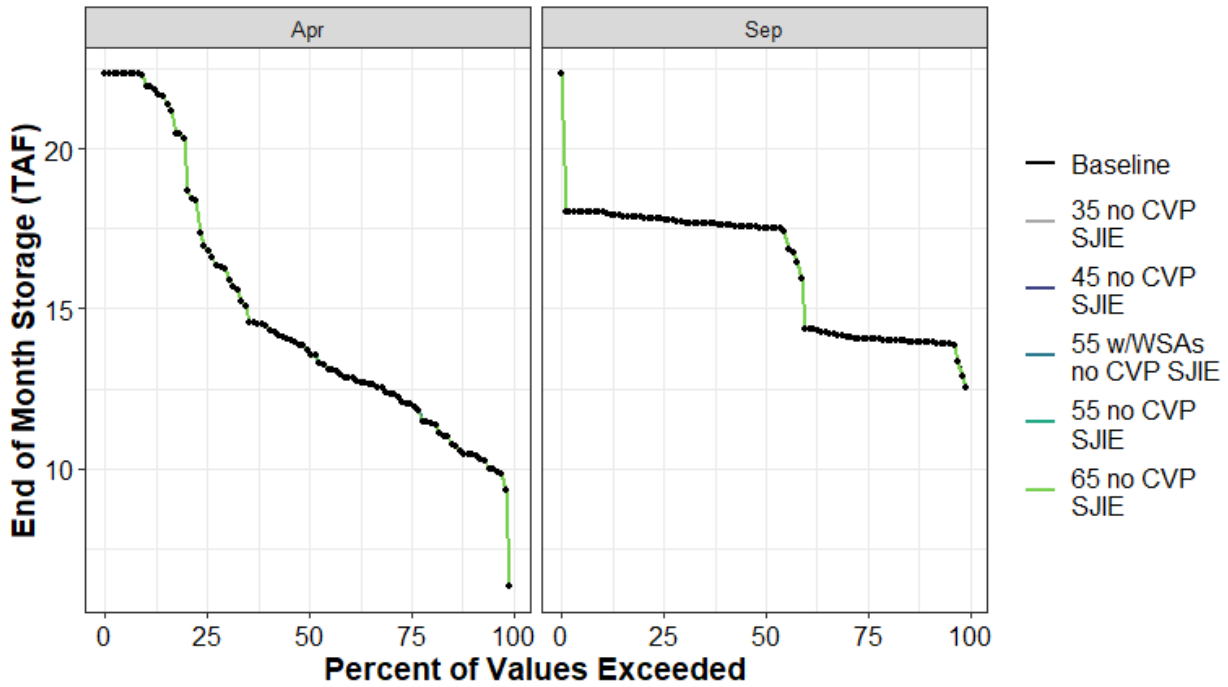

Figure H1a4-81. Caples Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

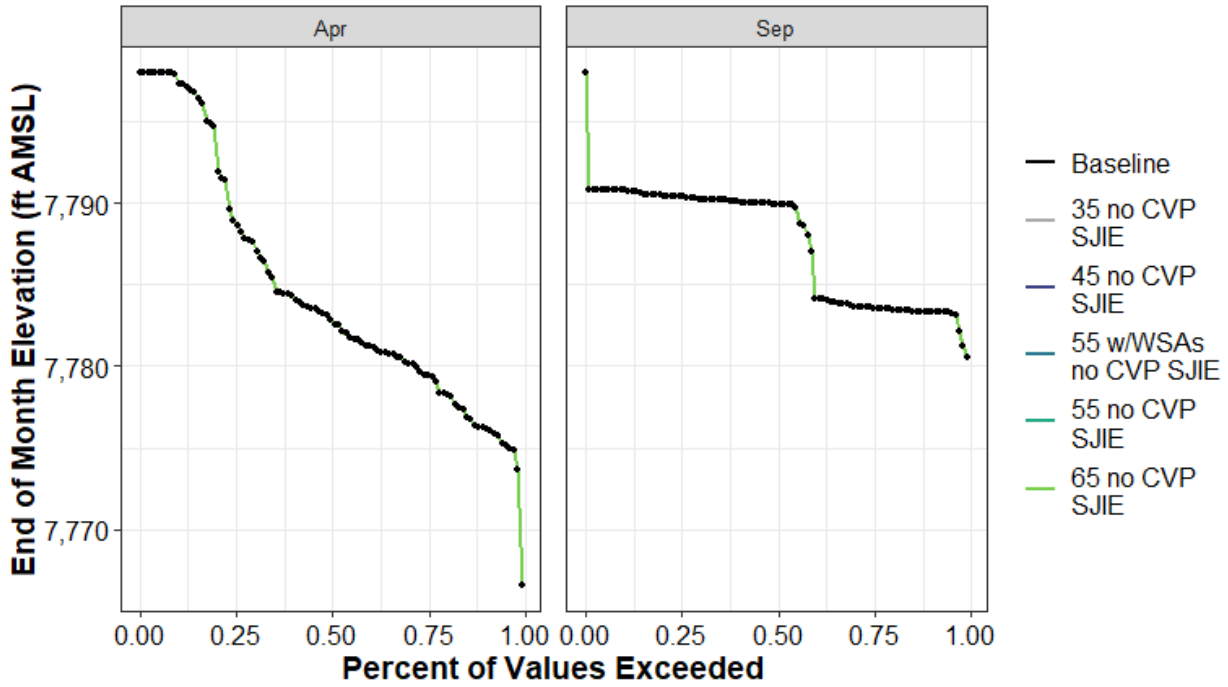

Figure H1a4-82. Caples Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-165. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	13	0	0	0	0	0
10%	14	0	0	0	0	0
25%	14	0	0	0	0	0
50%	18	0	0	0	0	0
75%	18	0	0	0	0	0
90%	18	0	0	0	0	0
100%	22	0	0	0	0	0
Mean	16	0	0	0	0	0

Table H1a4-166. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7,781	0	0	0	0	0
10%	7,783	0	0	0	0	0
25%	7,784	0	0	0	0	0
50%	7,790	0	0	0	0	0
75%	7,790	0	0	0	0	0
90%	7,791	0	0	0	0	0
100%	7,798	0	0	0	0	0
Mean	7,788	0	0	0	0	0

Table H1a4-167. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6	0	0	0	0	0
10%	10	0	0	0	0	0
25%	12	0	0	0	0	0
50%	14	0	0	0	0	0
75%	17	0	0	0	0	0
90%	22	0	0	0	0	0
100%	22	0	0	0	0	0
Mean	15	0	0	0	0	0

Table H1a4-168. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7,767	0	0	0	0	0
10%	7,776	0	0	0	0	0
25%	7,779	0	0	0	0	0
50%	7,783	0	0	0	0	0
75%	7,789	0	0	0	0	0
90%	7,797	0	0	0	0	0
100%	7,798	0	0	0	0	0
Mean	7,785	0	0	0	0	0

H1a4.5.9 Clear Lake (Cache Creek Watershed)

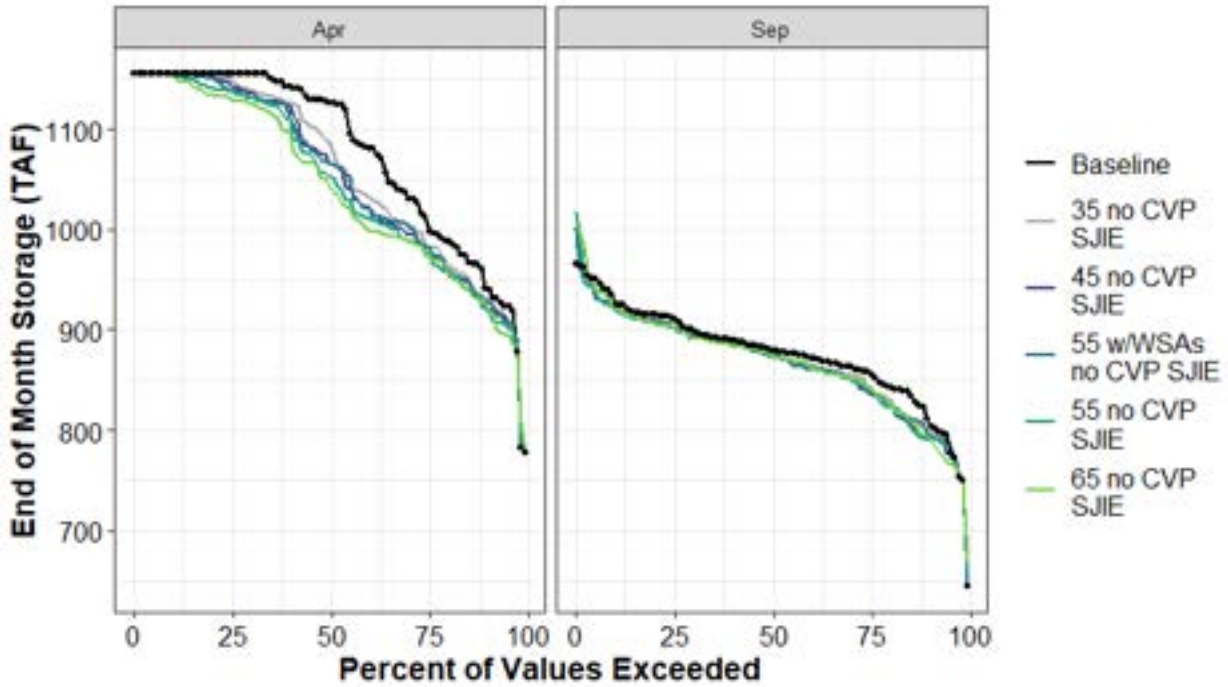

Figure H1a4-83. Clear Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

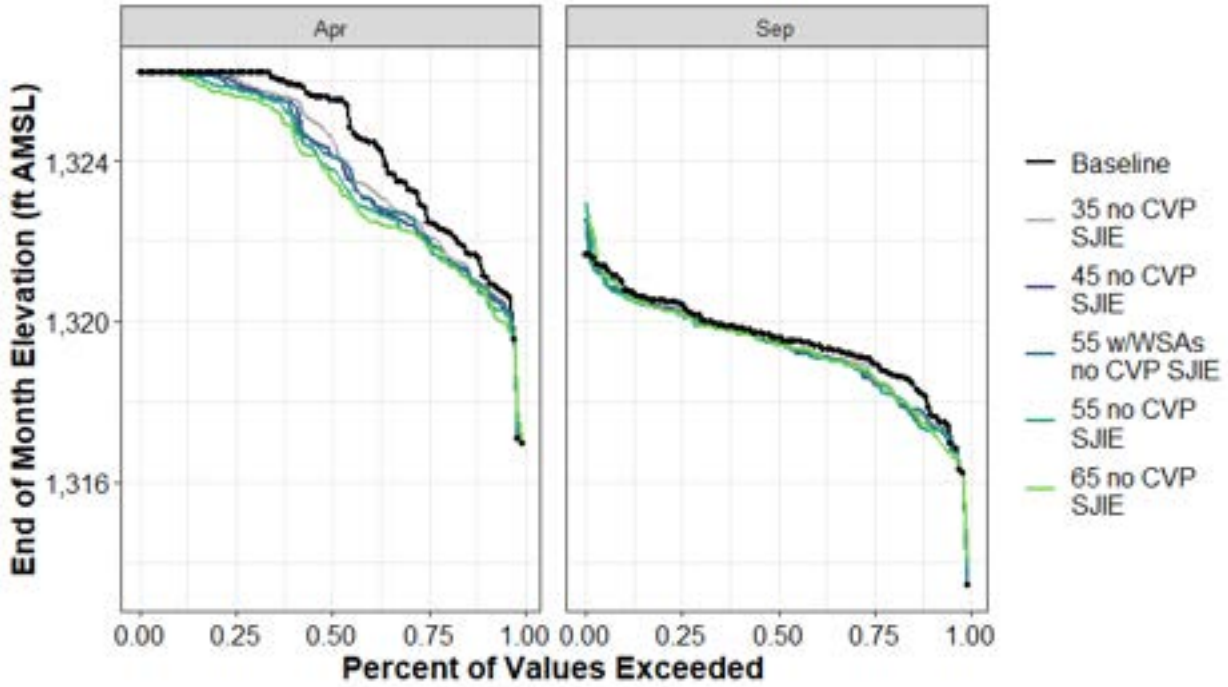

Figure H1a4-84. Clear Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-169. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	645	0	2	-1	16	25
10%	810	-11	-16	-14	-19	-16
25%	856	-14	-19	-17	-16	-14
50%	880	-5	-7	-4	-6	-7
75%	911	-4	-8	-9	-9	-8
90%	928	-6	-8	-5	-9	-6
100%	965	1	36	34	52	39
Mean	876	-7	-9	-9	-9	-8

Table H1a4-170. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,313	0	0	0	0	1
10%	1,318	0	0	0	-1	0
25%	1,319	0	0	0	0	0
50%	1,320	0	0	0	0	0
75%	1,320	0	0	0	0	0
90%	1,321	0	0	0	0	0
100%	1,322	0	1	1	1	1
Mean	1,319	0	0	0	0	0

Table H1a4-171. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	777	0	0	0	0	0
10%	941	-10	-21	-11	-20	-15
25%	1,005	-23	-23	-22	-27	-31
50%	1,126	-38	-60	-60	-74	-83
75%	1,155	-6	-12	-17	-18	-25
90%	1,155	0	0	0	0	-2
100%	1,155	0	0	0	0	0
Mean	1,078	-19	-25	-25	-32	-37

Table H1a4-172. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,317	0	0	0	0	0
10%	1,321	0	0	0	0	0
25%	1,323	-1	-1	-1	-1	-1
50%	1,326	-1	-1	-1	-2	-2
75%	1,326	0	0	0	0	-1
90%	1,326	0	0	0	0	0
100%	1,326	0	0	0	0	0
Mean	1,324	0	-1	-1	-1	-1

H1a4.5.10CVP San Luis Reservoir (South of Delta Offstream)

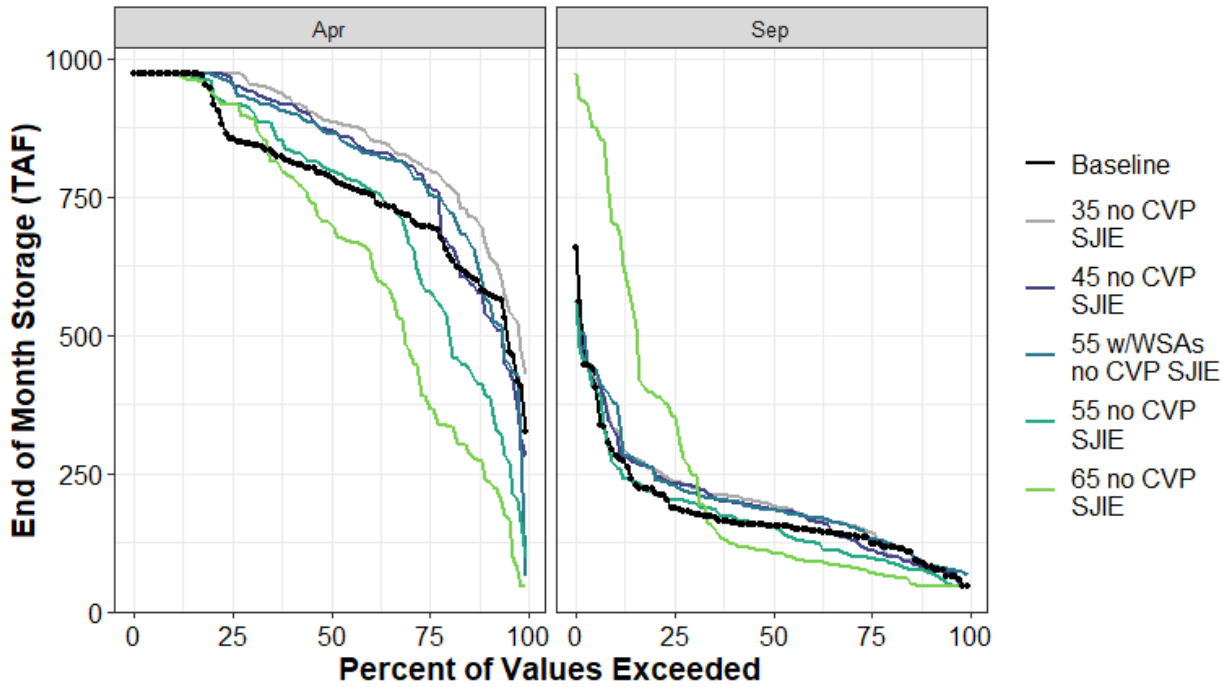

Figure H1a4-85. CVP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-173. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	45	0	1	21	0	0
10%	81	-6	-3	3	-11	-36
25%	128	15	-16	4	-31	-56
50%	155	38	31	29	-2	-49
75%	188	49	43	41	14	165
90%	283	46	41	93	-19	417
100%	658	-98	-98	-98	-98	314
Mean	178	23	16	25	-11	60

Table H1a4-174. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	325	102	-43	-262	-230	-280
10%	578	82	-41	-14	-186	-338
25%	695	103	77	68	-116	-318
50%	789	98	81	76	10	-85
75%	855	117	104	100	62	62
90%	972	0	0	0	0	0
100%	972	0	0	0	0	0
Mean	773	83	46	48	-38	-124

H1a4.5.11 East Park Reservoir (Stony Creek Watershed)

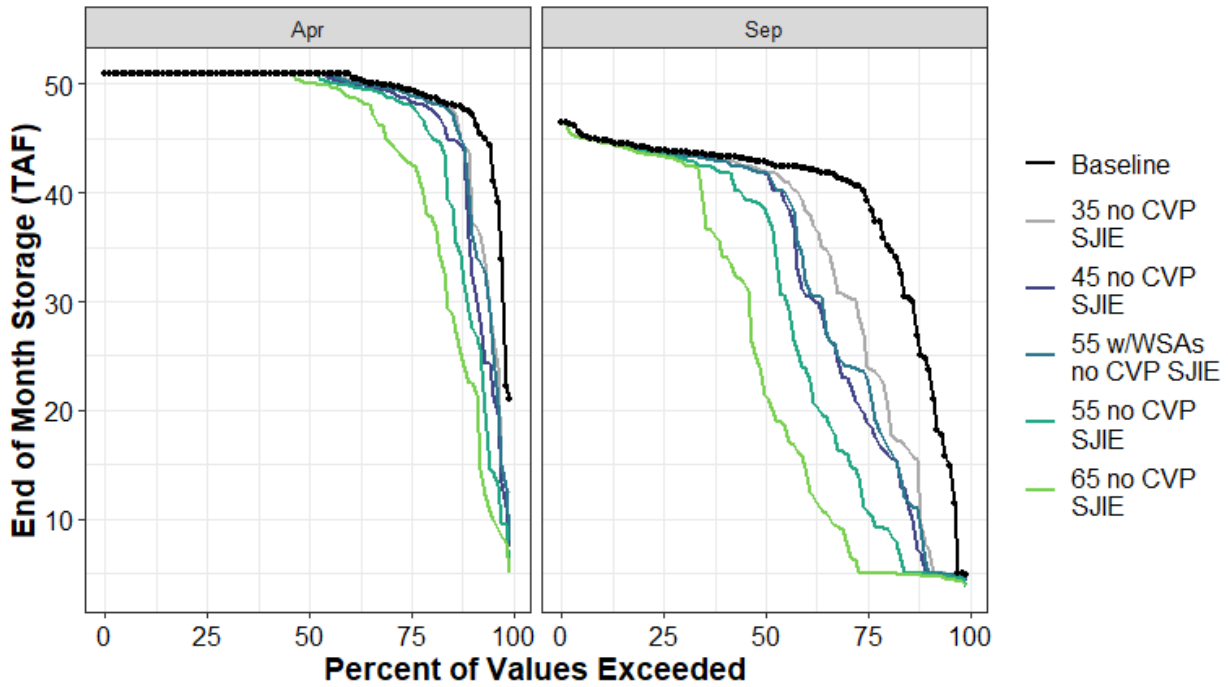

Figure H1a4-86. East Park Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

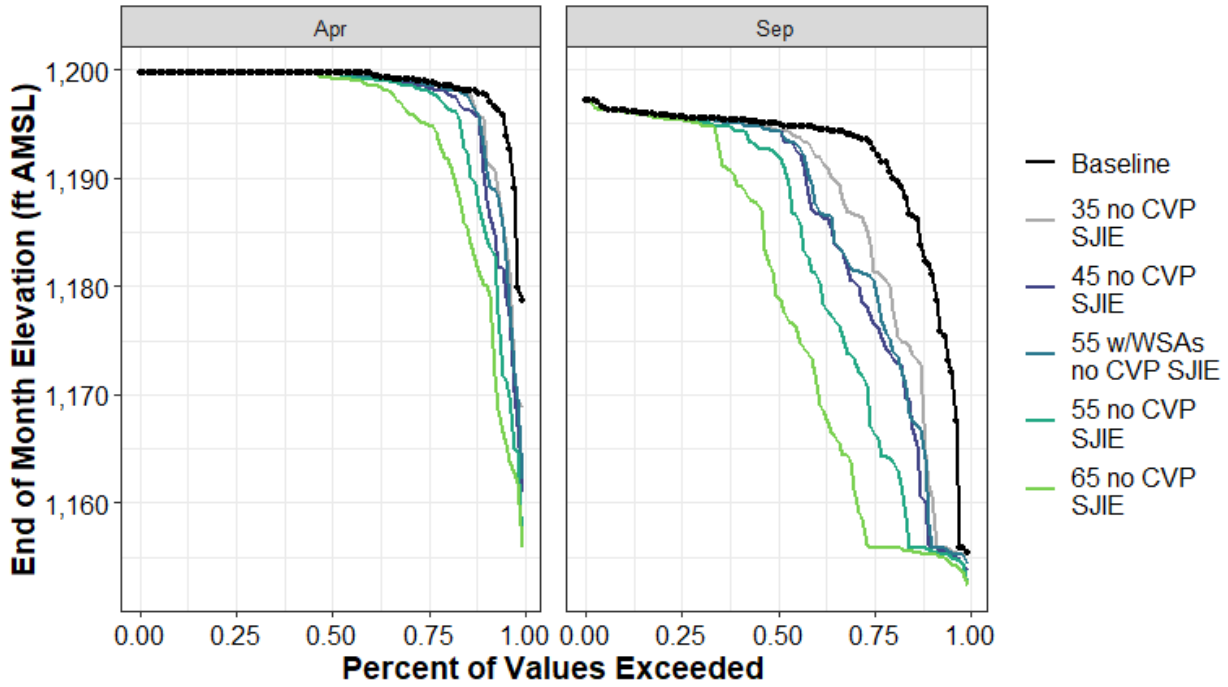

Figure H1a4-87. East Park Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-175. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5	0	-1	0	-1	-1
10%	25	-17	-19	-19	-20	-20
25%	40	-14	-20	-16	-29	-35
50%	43	-1	-1	-1	-4	-21
75%	44	0	0	0	0	-1
90%	45	0	0	0	0	0
100%	46	0	0	0	0	0
Mean	39	-5	-7	-6	-10	-14

Table H1a4-176. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,155	0	-2	-1	-3	-3
10%	1,182	-20	-26	-24	-26	-27
25%	1,193	-10	-16	-12	-26	-37
50%	1,195	-1	-1	-1	-3	-16
75%	1,196	0	0	0	0	0
90%	1,196	0	0	0	0	0
100%	1,197	0	0	0	0	0
Mean	1,192	-4	-6	-6	-10	-14

Table H1a4-177. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	21	-9	-14	-13	-16	-16
10%	47	-5	-12	-8	-19	-25
25%	49	0	-1	0	-1	-7
50%	51	0	0	0	0	-1
75%	51	0	0	0	0	0
90%	51	0	0	0	0	0
100%	51	0	0	0	0	0
Mean	49	-1	-2	-2	-3	-6

Table H1a4-178. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,179	-10	-18	-17	-23	-23
10%	1,198	-3	-8	-5	-12	-18
25%	1,199	0	-1	0	-1	-4
50%	1,200	0	0	0	0	0
75%	1,200	0	0	0	0	0
90%	1,200	0	0	0	0	0
100%	1,200	0	0	0	0	0
Mean	1,199	-1	-2	-1	-3	-4

H1a4.5.12 Folsom Lake (American River Watershed)

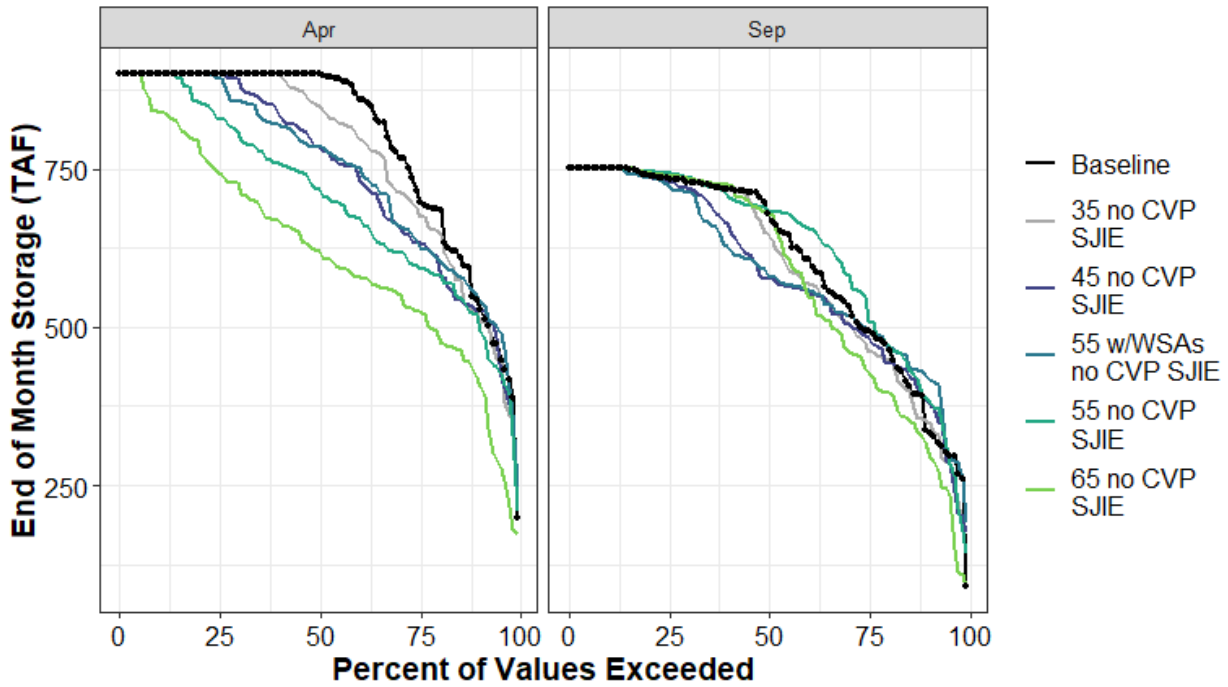

Figure H1a4-88. Folsom Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

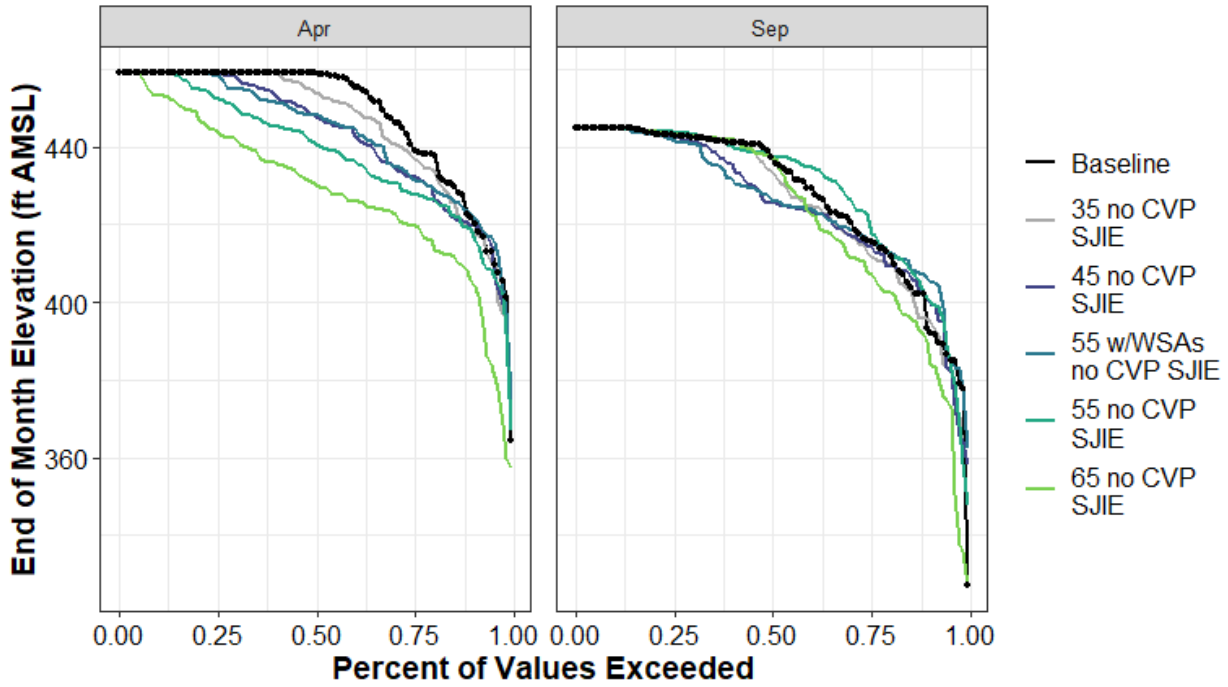

Figure H1a4-89. Folsom Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-179. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	90	96	85	102	51	0
10%	336	17	48	86	51	-24
25%	494	-26	-8	4	36	-63
50%	679	-31	-103	-97	5	-1
75%	735	0	-5	-12	8	4
90%	752	0	0	0	0	0
100%	752	0	0	0	0	0
Mean	606	-13	-24	-19	15	-28

Table H1a4-180. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	327	34	31	35	21	0
10%	393	3	8	13	8	-4
25%	416	-3	-1	0	4	-8
50%	437	-3	-11	-11	1	0
75%	443	0	-1	-1	1	0
90%	445	0	0	0	0	0
100%	445	0	0	0	0	0
Mean	427	-2	-3	-2	2	-5

Table H1a4-181. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	199	42	37	45	10	-26
10%	540	-20	-14	8	-25	-123
25%	706	-24	-72	-75	-112	-180
50%	900	-50	-115	-114	-182	-279
75%	900	0	0	-8	-71	-155
90%	900	0	0	0	0	-60
100%	900	0	0	0	0	0
Mean	797	-24	-53	-50	-95	-177

Table H1a4-182. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	364	10	9	10	2	-7
10%	421	-2	-2	1	-3	-16
25%	440	-3	-8	-8	-12	-20
50%	459	-5	-11	-11	-18	-28
75%	459	0	0	-1	-7	-15
90%	459	0	0	0	0	-6
100%	459	0	0	0	0	0
Mean	448	-2	-5	-5	-10	-19

H1a4.5.13 French Lake (Yuba River Watershed)

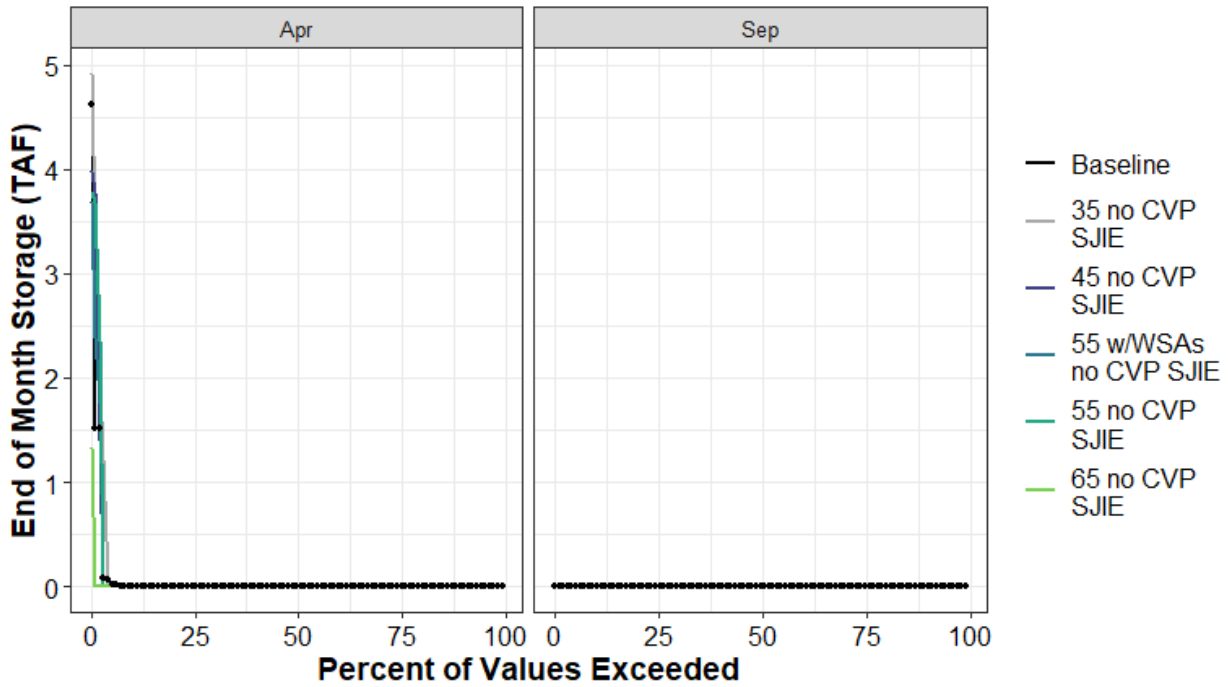

Figure H1a4-90. French Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-183. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	0	0	0	0	0	0
10%	0	0	0	0	0	0
25%	0	0	0	0	0	0
50%	0	0	0	0	0	0
75%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	0	0	0	0	0	0

Table H1a4-184. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	0	0	0	0	0	0
10%	0	0	0	0	0	0
25%	0	0	0	0	0	0
50%	0	0	0	0	0	0
75%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	5	0	-1	-1	-1	-3
Mean	0	0	0	0	0	0

H1a4.5.14 French Meadows (American River Watershed)

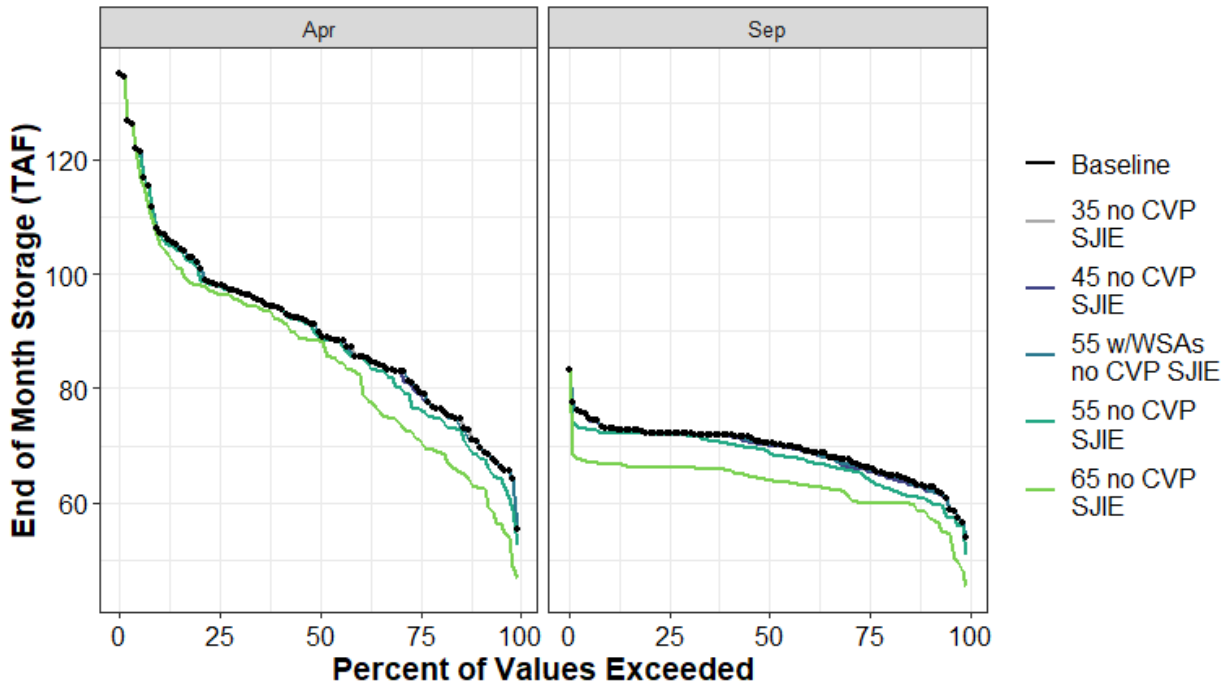

Figure H1a4-91. French Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

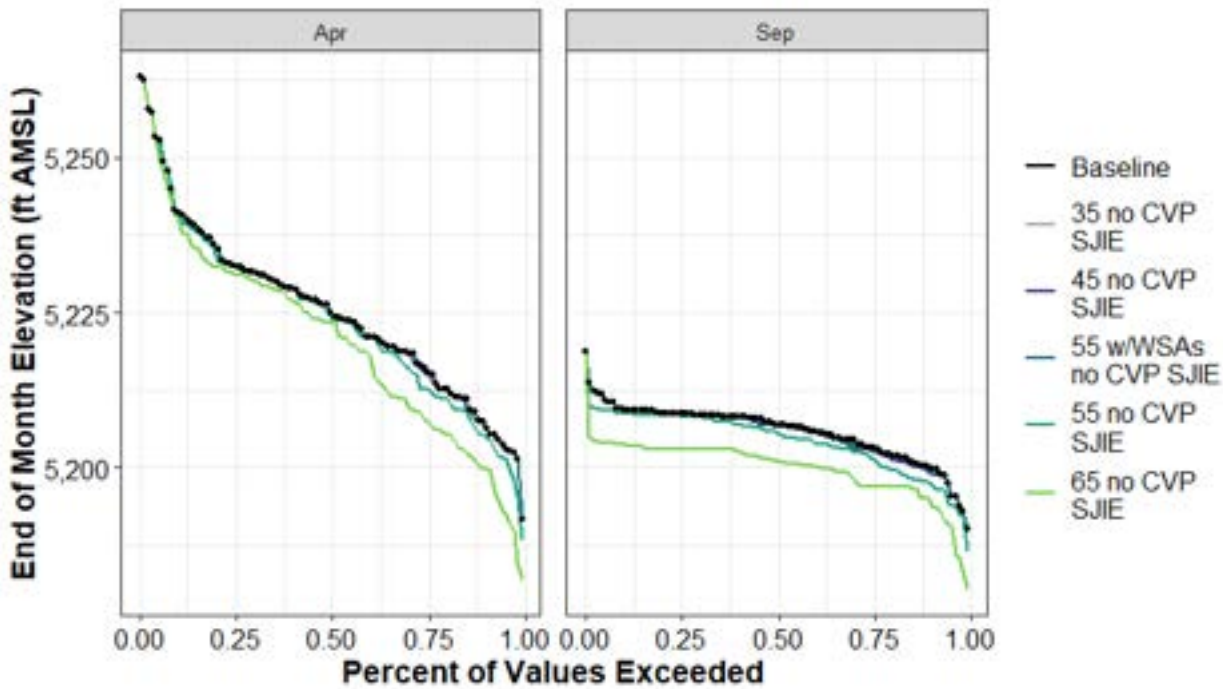

Figure H1a4-92. French Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-185. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	54	0	-1	0	-3	-9
10%	63	0	-1	0	-2	-5
25%	66	0	0	0	-2	-6
50%	70	0	0	0	-1	-6
75%	72	0	0	0	0	-6
90%	73	0	0	0	-1	-6
100%	83	0	0	0	0	0
Mean	69	0	0	0	-2	-6

Table H1a4-186. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,190	0	-1	0	-4	-10
10%	5,200	0	-1	0	-2	-5
25%	5,203	0	0	0	-2	-6
50%	5,207	0	0	0	-1	-6
75%	5,209	0	0	0	0	-6
90%	5,209	0	0	0	-1	-6
100%	5,219	0	0	0	0	0
Mean	5,206	0	0	0	-1	-6

Table H1a4-187. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	55	0	0	0	-3	-8
10%	71	0	0	0	-2	-8
25%	80	0	-1	0	-3	-9
50%	90	0	0	0	-1	-2
75%	98	0	0	0	0	-1
90%	107	0	0	0	0	-2
100%	135	0	0	0	0	0
Mean	90	0	0	0	-1	-5

Table H1a4-188. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,192	0	0	0	-3	-10
10%	5,207	0	0	0	-2	-7
25%	5,216	0	-1	0	-3	-8
50%	5,225	0	0	0	-1	-2
75%	5,233	0	0	0	0	-1
90%	5,241	0	0	0	0	-2
100%	5,263	0	0	0	0	0
Mean	5,225	0	0	0	-1	-5

H1a4.5.15 Frenchman Lake (Feather River Watershed)

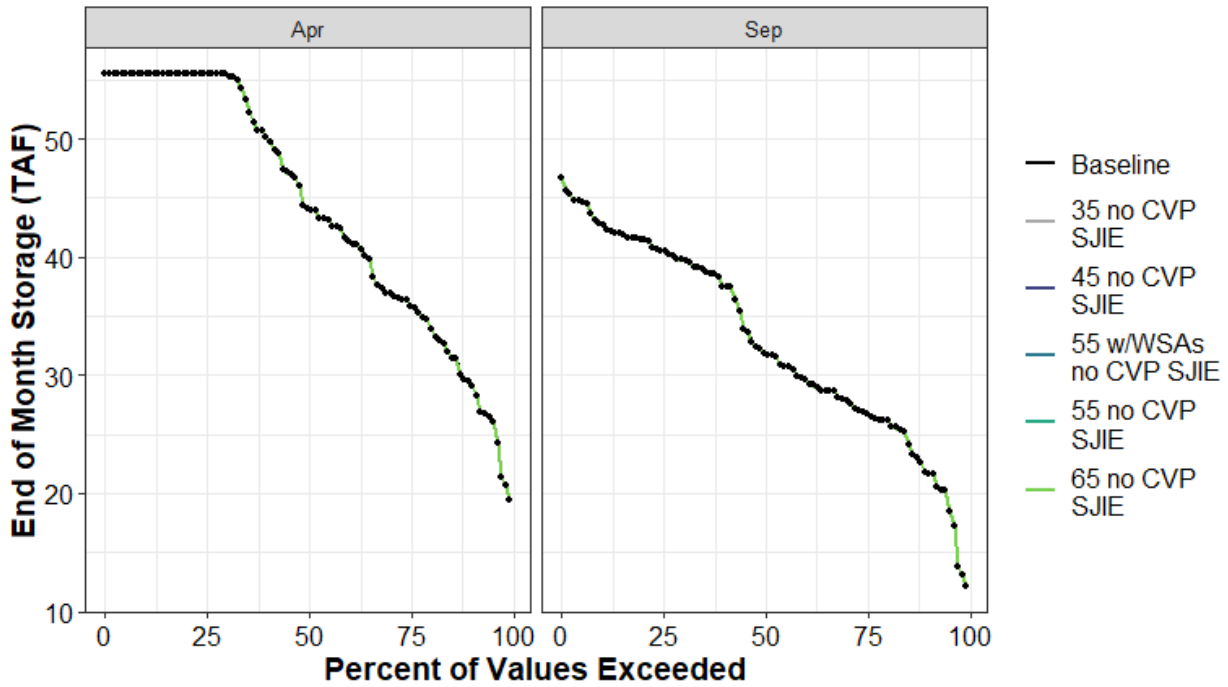

Figure H1a4-93. Frenchman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

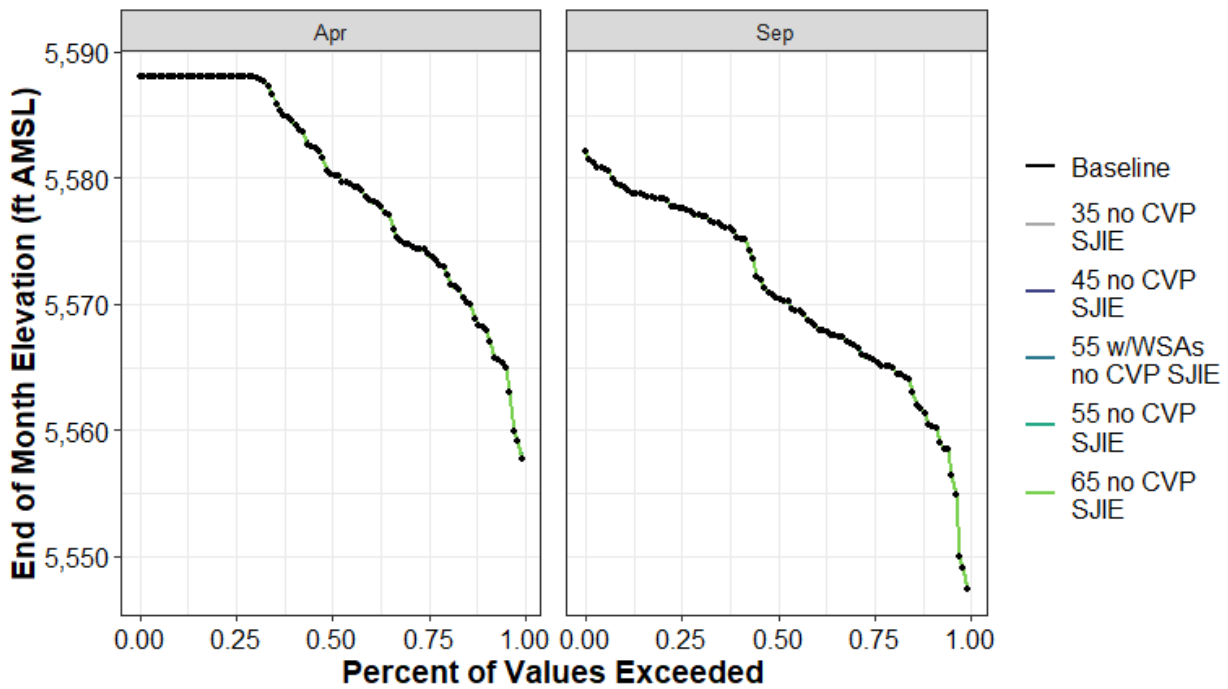

Figure H1a4-94. Frenchman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-189. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	12	0	0	0	0	0
10%	22	0	0	0	0	0
25%	27	0	0	0	0	0
50%	32	0	0	0	0	0
75%	41	0	0	0	0	0
90%	43	0	0	0	0	0
100%	47	0	0	0	0	0
Mean	33	0	0	0	0	0

Table H1a4-190. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,547	0	0	0	0	0
10%	5,560	0	0	0	0	0
25%	5,566	0	0	0	0	0
50%	5,570	0	0	0	0	0
75%	5,578	0	0	0	0	0
90%	5,579	0	0	0	0	0
100%	5,582	0	0	0	0	0
Mean	5,571	0	0	0	0	0

Table H1a4-191. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	19	0	0	0	0	0
10%	29	0	0	0	0	0
25%	36	0	0	0	0	0
50%	44	0	0	0	0	0
75%	55	0	0	0	0	0
90%	55	0	0	0	0	0
100%	55	0	0	0	0	0
Mean	44	0	0	0	0	0

Table H1a4-192. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,558	0	0	0	0	0
10%	5,568	0	0	0	0	0
25%	5,574	0	0	0	0	0
50%	5,580	0	0	0	0	0
75%	5,588	0	0	0	0	0
90%	5,588	0	0	0	0	0
100%	5,588	0	0	0	0	0
Mean	5,580	0	0	0	0	0

H1a4.5.16 Hell Hole (American River Watershed)

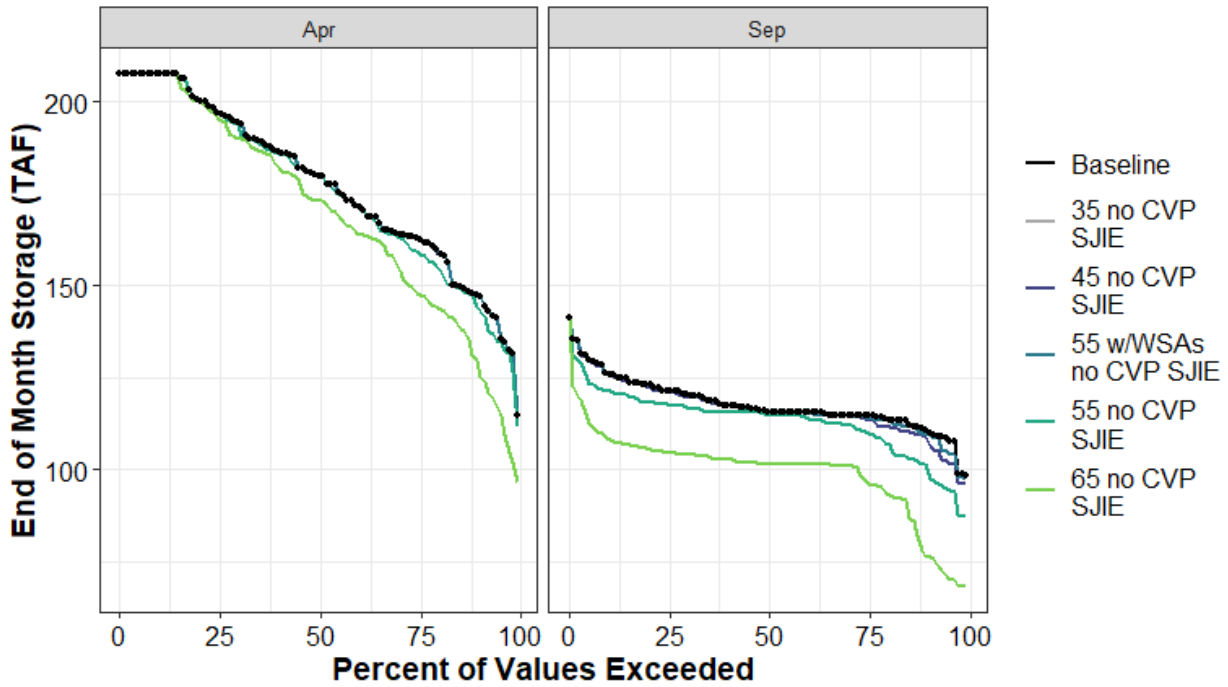

Figure H1a4-95. Hell Hole End of April and End of September Storage (TAF) Percent Exceedance Plot

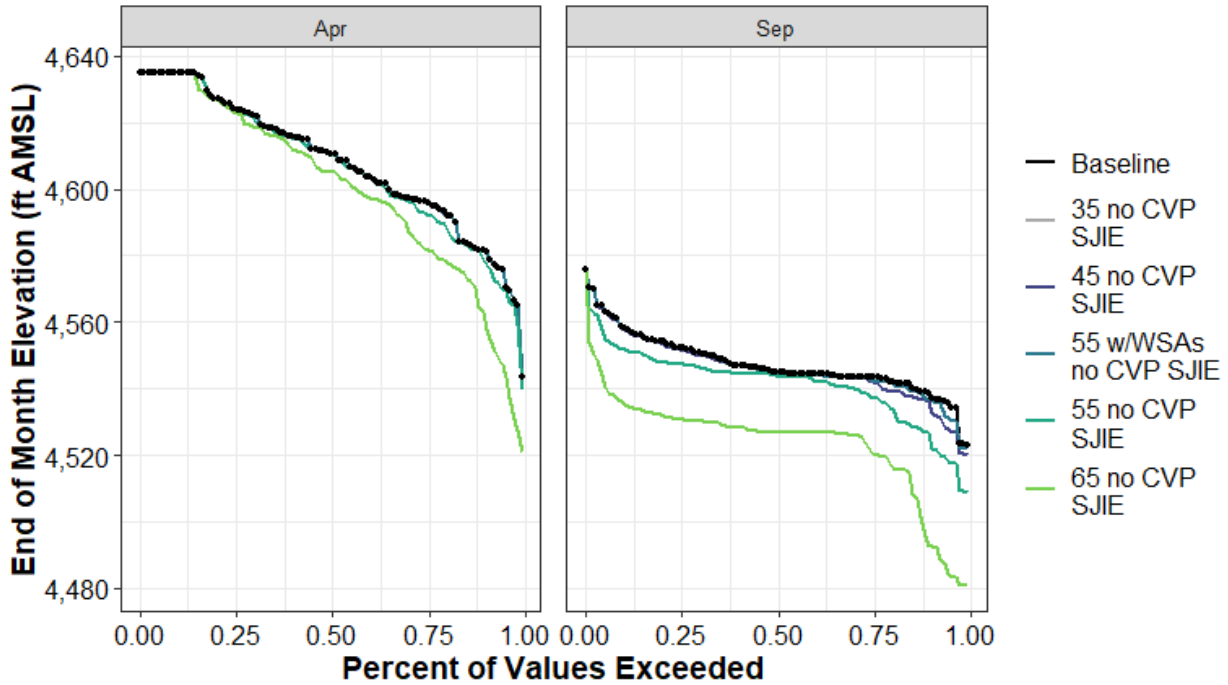

Figure H1a4-96. Hell Hole Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-193. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	98	0	-2	-1	-11	-30
10%	111	-1	-2	-1	-10	-35
25%	115	0	-1	-1	-5	-18
50%	116	0	0	0	-1	-14
75%	121	0	0	0	-4	-17
90%	126	0	0	0	-5	-18
100%	141	0	0	0	0	0
Mean	118	0	-1	0	-5	-18

Table H1a4-194. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,523	0	-3	-1	-14	-42
10%	4,538	-1	-3	-1	-12	-46
25%	4,543	0	-1	-1	-6	-23
50%	4,545	0	0	0	-1	-18
75%	4,552	0	0	0	-5	-21
90%	4,558	0	0	0	-6	-23
100%	4,576	0	0	0	0	0
Mean	4,547	0	-1	0	-6	-24

Table H1a4-195. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	115	0	0	0	-3	-18
10%	147	0	0	0	-3	-18
25%	163	0	0	0	-4	-15
50%	180	0	0	0	0	-6
75%	197	0	0	0	0	-1
90%	208	0	0	0	0	0
100%	208	0	0	0	0	0
Mean	178	0	0	0	-1	-8

Table H1a4-196. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,543	0	0	0	-4	-23
10%	4,581	0	0	0	-3	-19
25%	4,596	0	0	0	-4	-14
50%	4,610	0	0	0	0	-5
75%	4,624	0	0	0	0	-1
90%	4,635	0	0	0	0	0
100%	4,635	0	0	0	0	0
Mean	4,608	0	0	0	-1	-8

H1a4.5.17 Ice House (American River Watershed)

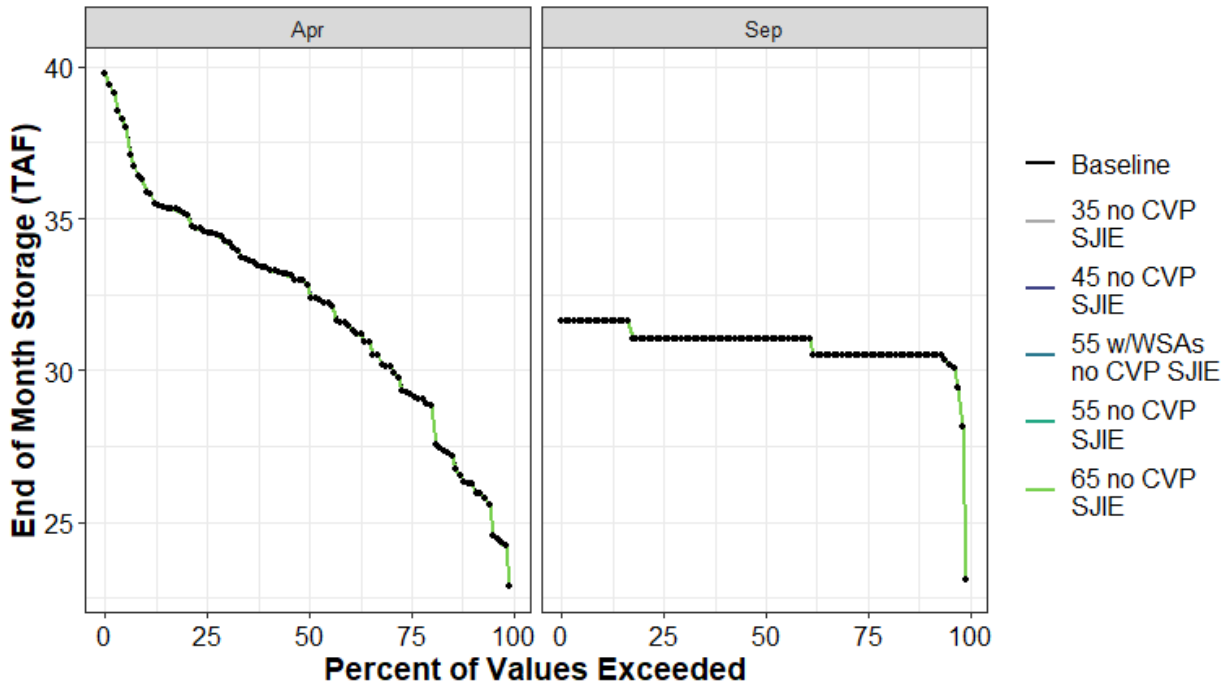

Figure H1a4-97. Ice House End of April and End of September Storage (TAF) Percent Exceedance Plot

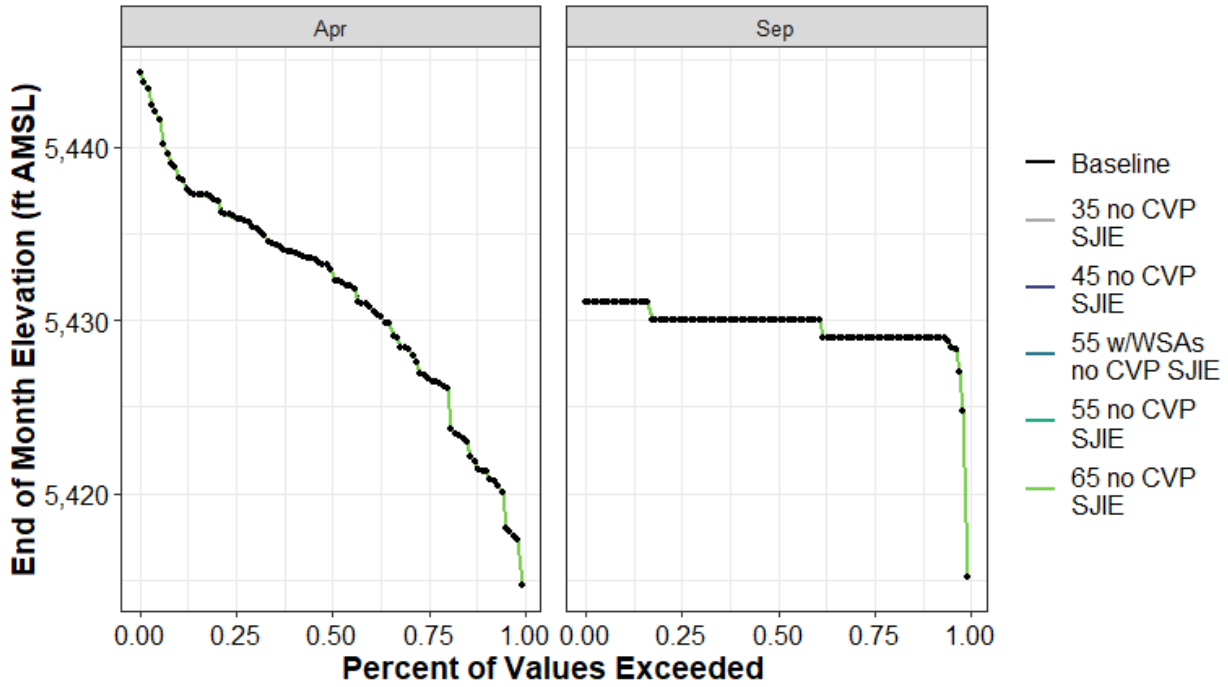

Figure H1a4-98. Ice House Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-197. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	23	0	0	0	0	0
10%	30	0	0	0	0	0
25%	30	0	0	0	0	0
50%	31	0	0	0	0	0
75%	31	0	0	0	0	0
90%	32	0	0	0	0	0
100%	32	0	0	0	0	0
Mean	31	0	0	0	0	0

Table H1a4-198. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,415	0	0	0	0	0
10%	5,429	0	0	0	0	0
25%	5,429	0	0	0	0	0
50%	5,430	0	0	0	0	0
75%	5,430	0	0	0	0	0
90%	5,431	0	0	0	0	0
100%	5,431	0	0	0	0	0
Mean	5,430	0	0	0	0	0

Table H1a4-199. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	23	0	0	0	0	0
10%	26	0	0	0	0	0
25%	29	0	0	0	0	0
50%	33	0	0	0	0	0
75%	35	0	0	0	0	0
90%	36	0	0	0	0	0
100%	40	0	0	0	0	0
Mean	32	0	0	0	0	0

Table H1a4-200. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,415	0	0	0	0	0
10%	5,421	0	0	0	0	0
25%	5,427	0	0	0	0	0
50%	5,433	0	0	0	0	0
75%	5,436	0	0	0	0	0
90%	5,438	0	0	0	0	0
100%	5,444	0	0	0	0	0
Mean	5,431	0	0	0	0	0

H1a4.5.18 Indian Valley Reservoir (Cache Creek Watershed)

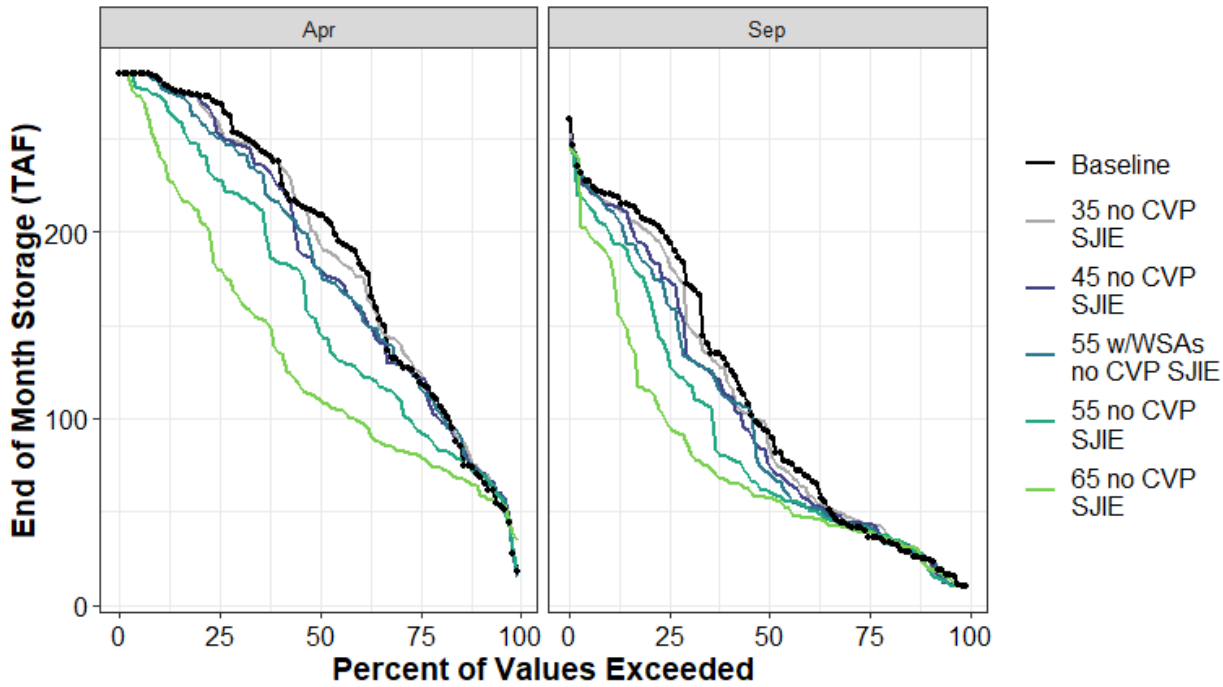

Figure H1a4-99. Indian Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

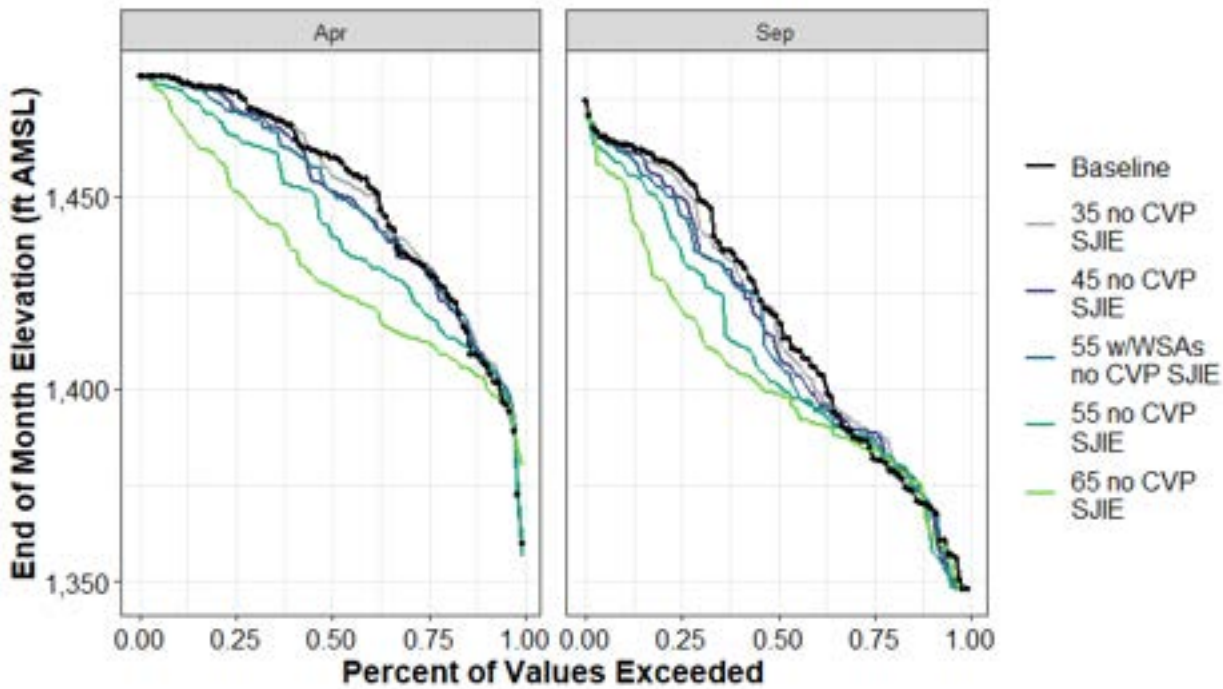

Figure H1a4-100. Indian Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-201. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	10	0	0	0	0	0
10%	25	0	1	0	-5	-4
25%	38	5	5	4	3	1
50%	93	-6	-16	-22	-32	-36
75%	195	-11	-21	-35	-64	-99
90%	220	-5	-6	-8	-20	-34
100%	260	-7	-11	-14	-14	-16
Mean	111	-4	-9	-11	-21	-34

Table H1a4-202. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,348	0	0	0	0	0
10%	1,370	0	1	0	-7	-5
25%	1,383	5	5	4	3	1
50%	1,419	-3	-8	-12	-17	-20
75%	1,456	-3	-6	-11	-21	-36
90%	1,463	-1	-2	-2	-6	-10
100%	1,475	-2	-3	-4	-4	-4
Mean	1,417	-1	-3	-5	-9	-14

Table H1a4-203. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	18	-2	-2	-2	-2	17
10%	70	4	3	2	1	-7
25%	121	4	1	-2	-28	-41
50%	209	-15	-29	-29	-63	-98
75%	269	-12	-16	-19	-41	-89
90%	282	-1	0	-3	-9	-40
100%	284	0	0	0	0	0
Mean	190	-2	-7	-9	-28	-55

Table H1a4-204. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,360	-2	-3	-3	-3	20
10%	1,406	3	2	1	1	-4
25%	1,431	2	0	-1	-12	-19
50%	1,460	-5	-9	-9	-20	-34
75%	1,477	-3	-4	-5	-11	-26
90%	1,480	0	0	-1	-2	-11
100%	1,481	0	0	0	0	0
Mean	1,451	0	-2	-3	-9	-19

H1a4.5.19 Jackson Meadows Reservoir (Yuba River Watershed)

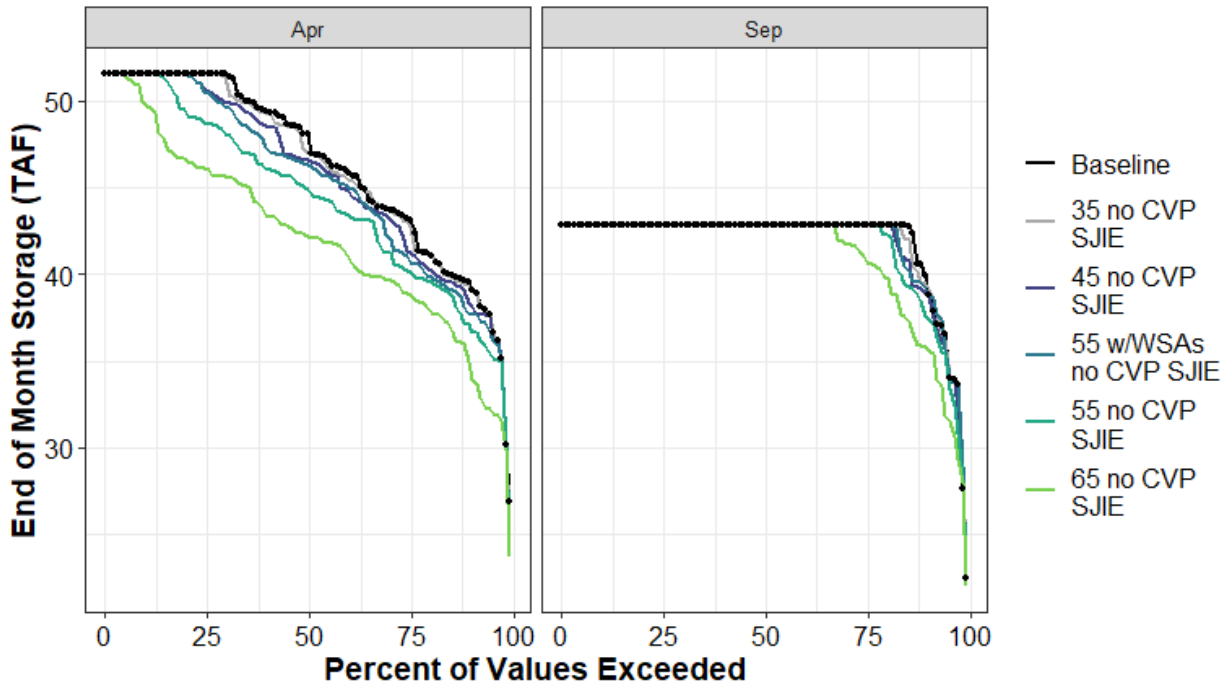

Figure H1a4-101. Jackson Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

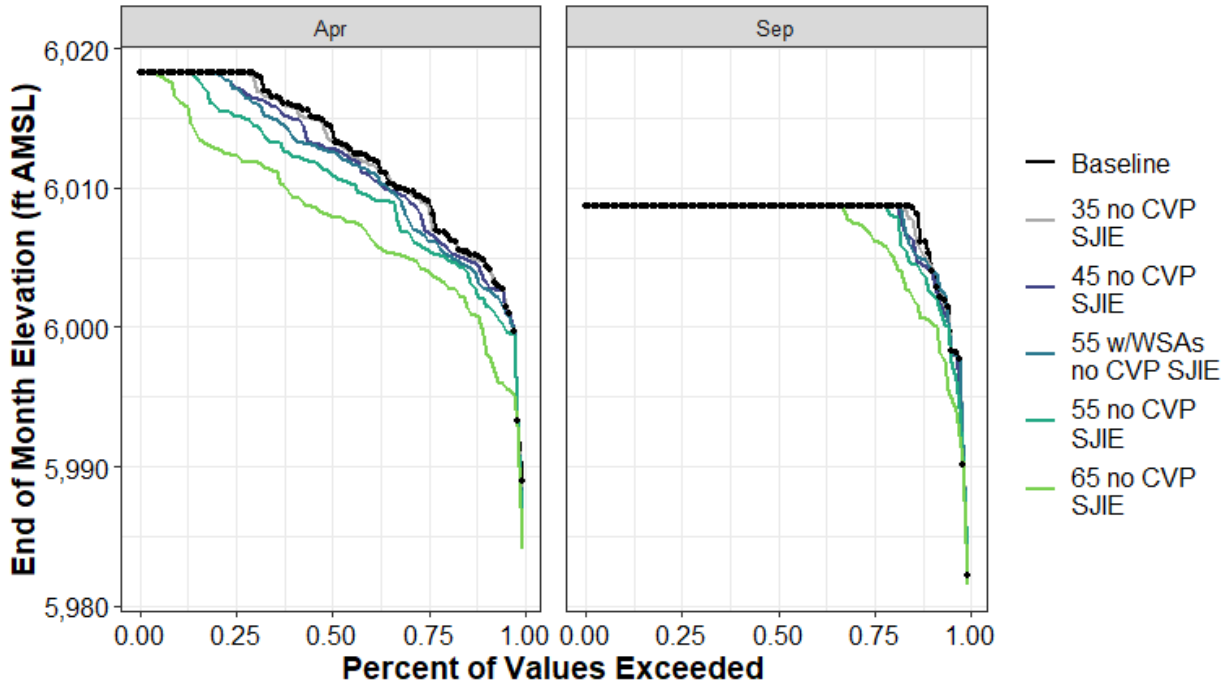

Figure H1a4-102. Jackson Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-205. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	22	0	1	0	1	-1
10%	40	0	-1	-1	-2	-4
25%	43	0	0	0	0	-2
50%	43	0	0	0	0	0
75%	43	0	0	0	0	0
90%	43	0	0	0	0	0
100%	43	0	0	0	0	0
Mean	42	0	0	0	0	-1

Table H1a4-206. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,982	1	1	0	1	-1
10%	6,005	0	-1	-1	-2	-5
25%	6,009	0	0	0	0	-2
50%	6,009	0	0	0	0	0
75%	6,009	0	0	0	0	0
90%	6,009	0	0	0	0	0
100%	6,009	0	0	0	0	0
Mean	6,008	0	0	0	0	-1

Table H1a4-207. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	27	-1	-2	-2	-2	-3
10%	39	0	-1	-2	-2	-5
25%	43	0	-2	-2	-3	-4
50%	48	-1	-2	-2	-3	-6
75%	52	0	-1	-1	-3	-5
90%	52	0	0	0	0	-2
100%	52	0	0	0	0	0
Mean	46	0	-1	-1	-2	-4

Table H1a4-208. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,989	-2	-3	-3	-3	-5
10%	6,005	0	-1	-2	-3	-6
25%	6,009	0	-2	-3	-4	-5
50%	6,014	-1	-2	-2	-3	-7
75%	6,018	0	-1	-1	-3	-6
90%	6,018	0	0	0	0	-2
100%	6,018	0	0	0	0	0
Mean	6,012	0	-1	-1	-2	-5

H1a4.5.20Jenkinson Lake (Cosumnes River Watershed)

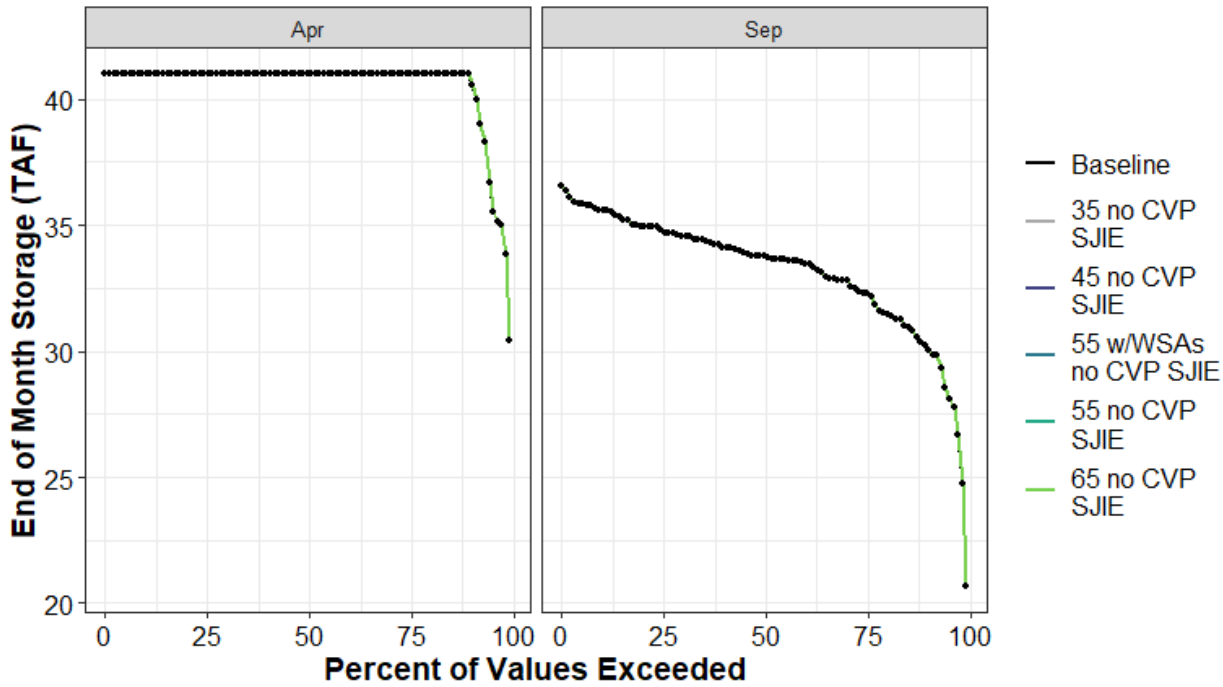

Figure H1a4-103. Jenkinson Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-209. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	21	0	0	0	0	0
10%	30	0	0	0	0	0
25%	32	0	0	0	0	0
50%	34	0	0	0	0	0
75%	35	0	0	0	0	0
90%	36	0	0	0	0	0
100%	37	0	0	0	0	0
Mean	33	0	0	0	0	0

Table H1a4-210. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	30	0	0	0	0	0
10%	41	0	0	0	0	0
25%	41	0	0	0	0	0
50%	41	0	0	0	0	0
75%	41	0	0	0	0	0
90%	41	0	0	0	0	0
100%	41	0	0	0	0	0
Mean	41	0	0	0	0	0

H1a4.5.21 Lake Almanor (Feather River Watershed)

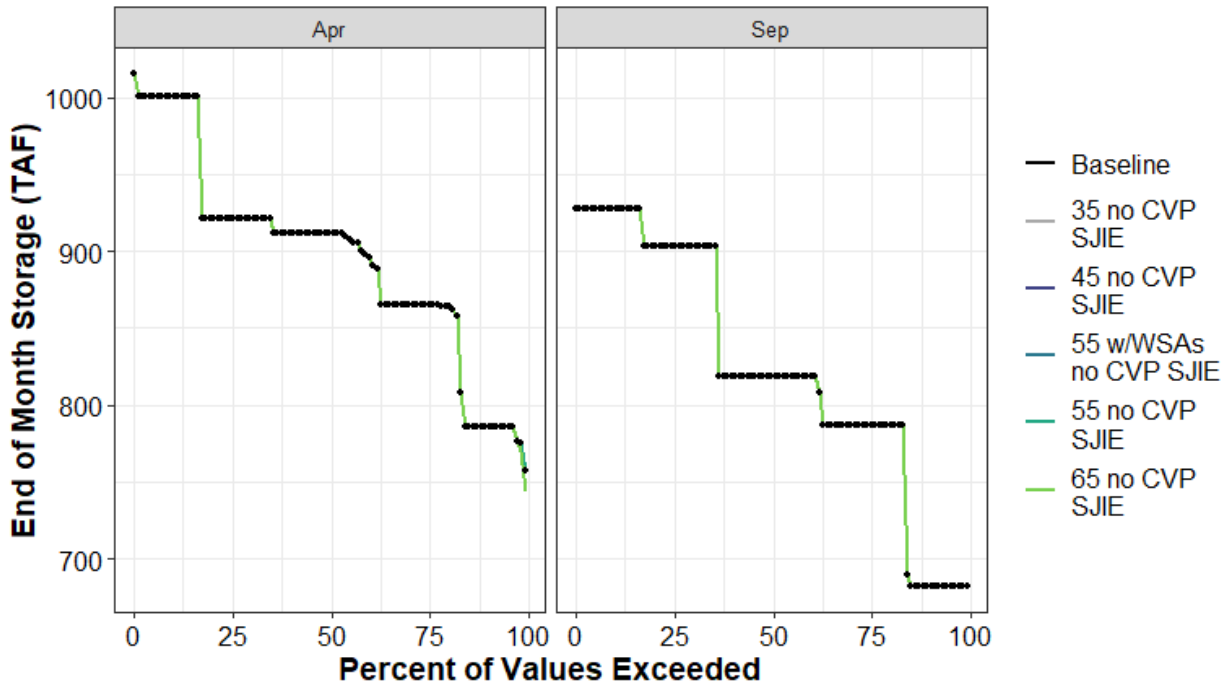

Figure H1a4-104. Lake Almanor End of April and End of September Storage (TAF) Percent Exceedance Plot

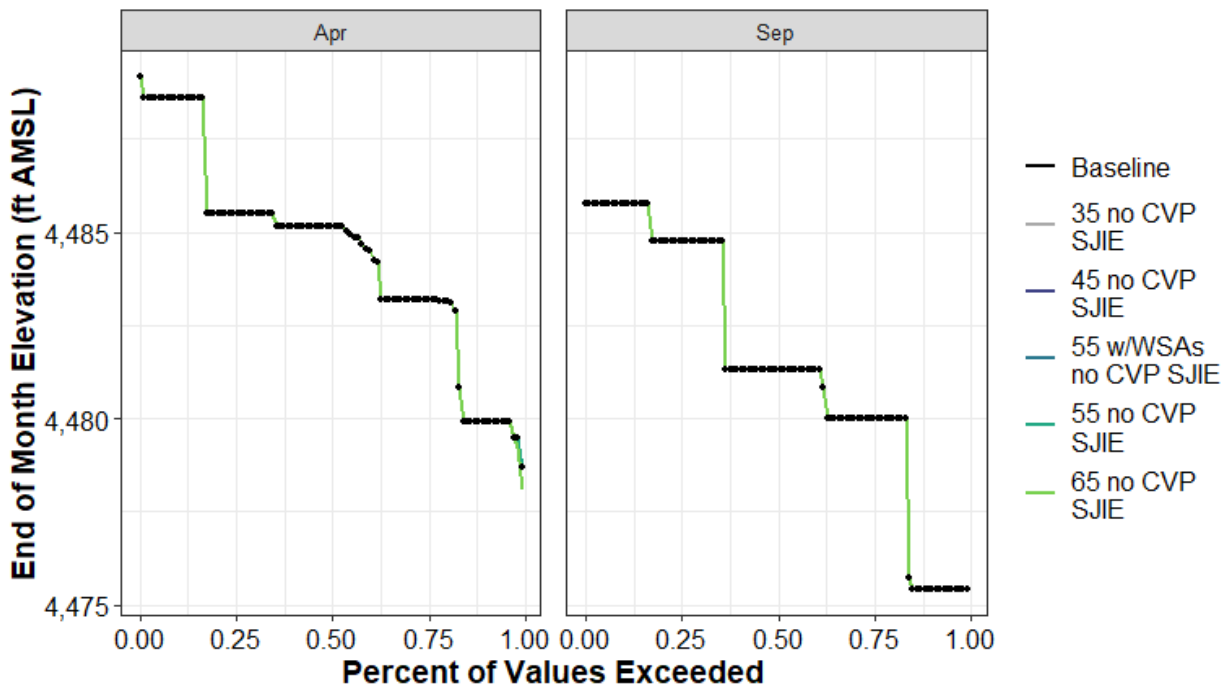

Figure H1a4-105. Lake Almanor Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-211. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	682	0	0	0	0	0
10%	682	0	0	0	0	0
25%	787	0	0	0	0	0
50%	819	0	0	0	0	0
75%	903	0	0	0	0	0
90%	928	0	0	0	0	0
100%	928	0	0	0	0	0
Mean	825	0	0	0	0	0

Table H1a4-212. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,475	0	0	0	0	0
10%	4,475	0	0	0	0	0
25%	4,480	0	0	0	0	0
50%	4,481	0	0	0	0	0
75%	4,485	0	0	0	0	0
90%	4,486	0	0	0	0	0
100%	4,486	0	0	0	0	0
Mean	4,482	0	0	0	0	0

Table H1a4-213. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	757	0	0	0	0	-14
10%	786	0	0	0	0	0
25%	865	0	0	0	0	0
50%	912	0	0	0	0	0
75%	921	0	0	0	0	0
90%	1,001	0	0	0	0	0
100%	1,015	0	0	0	0	0
Mean	896	0	0	0	0	0

Table H1a4-214. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,479	0	0	0	0	-1
10%	4,480	0	0	0	0	0
25%	4,483	0	0	0	0	0
50%	4,485	0	0	0	0	0
75%	4,485	0	0	0	0	0
90%	4,489	0	0	0	0	0
100%	4,489	0	0	0	0	0
Mean	4,484	0	0	0	0	0

H1a4.5.22 Lake Aloha (American River Watershed)

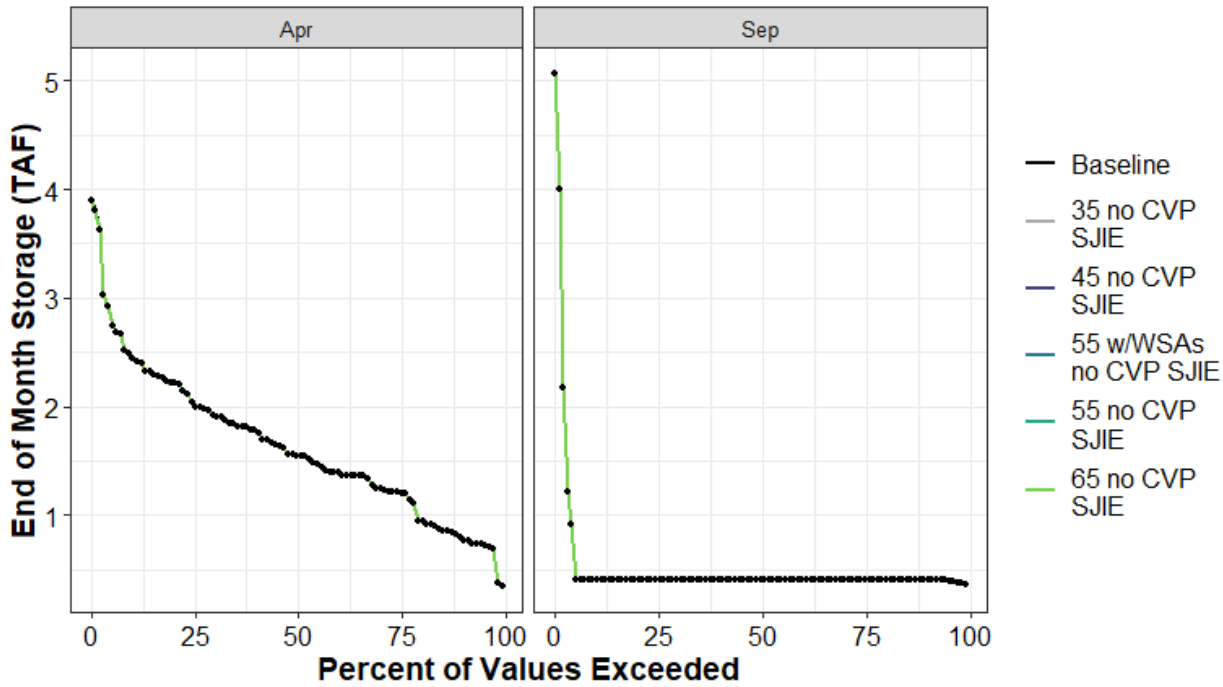

Figure H1a4-106. Lake Aloha End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-215. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	0	0	0	0	0	0
10%	0	0	0	0	0	0
25%	0	0	0	0	0	0
50%	0	0	0	0	0	0
75%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	5	0	0	0	0	0
Mean	1	0	0	0	0	0

Table H1a4-216. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	0	0	0	0	0	0
10%	1	0	0	0	0	0
25%	1	0	0	0	0	0
50%	2	0	0	0	0	0
75%	2	0	0	0	0	0
90%	2	0	0	0	0	0
100%	4	0	0	0	0	0
Mean	2	0	0	0	0	0

H1a4.5.23 Lake Amador (Mokelumne River Watershed)

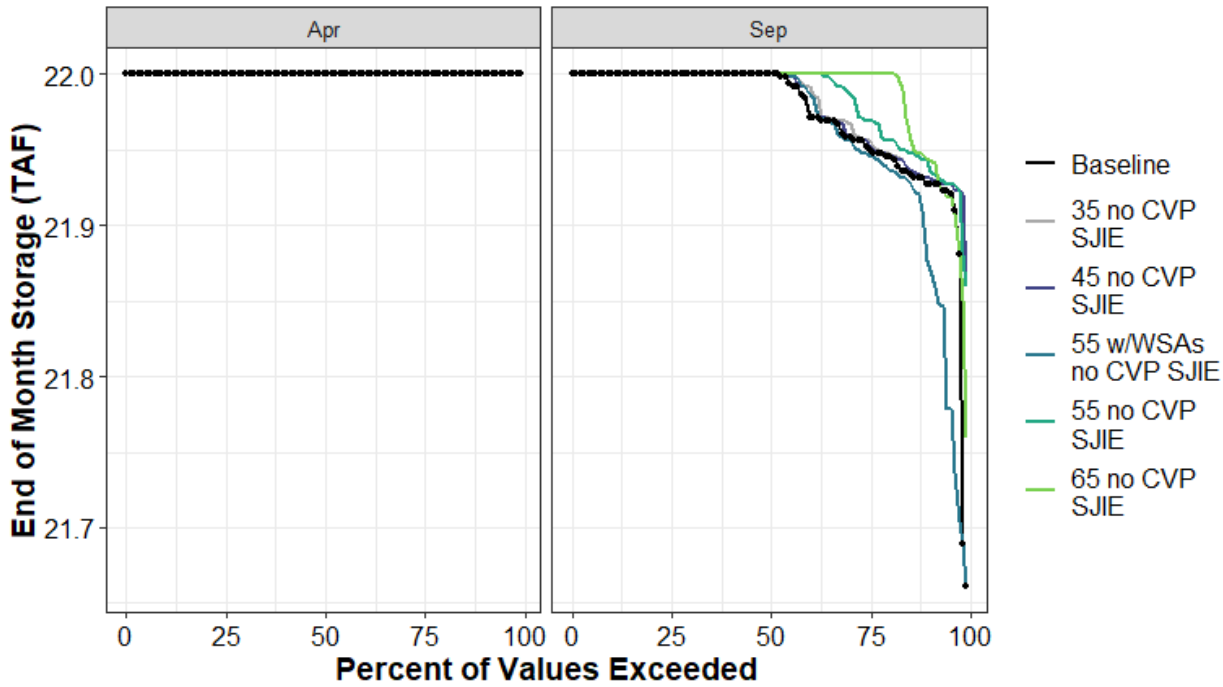

Figure H1a4-107. Lake Amador End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-217. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	22	0	0	0	0	0
10%	22	0	0	0	0	0
25%	22	0	0	0	0	0
50%	22	0	0	0	0	0
75%	22	0	0	0	0	0
90%	22	0	0	0	0	0
100%	22	0	0	0	0	0
Mean	22	0	0	0	0	0

Table H1a4-218. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	22	0	0	0	0	0
10%	22	0	0	0	0	0
25%	22	0	0	0	0	0
50%	22	0	0	0	0	0
75%	22	0	0	0	0	0
90%	22	0	0	0	0	0
100%	22	0	0	0	0	0
Mean	22	0	0	0	0	0

H1a4.5.24 Lake Berryessa (Putah Creek Watershed)

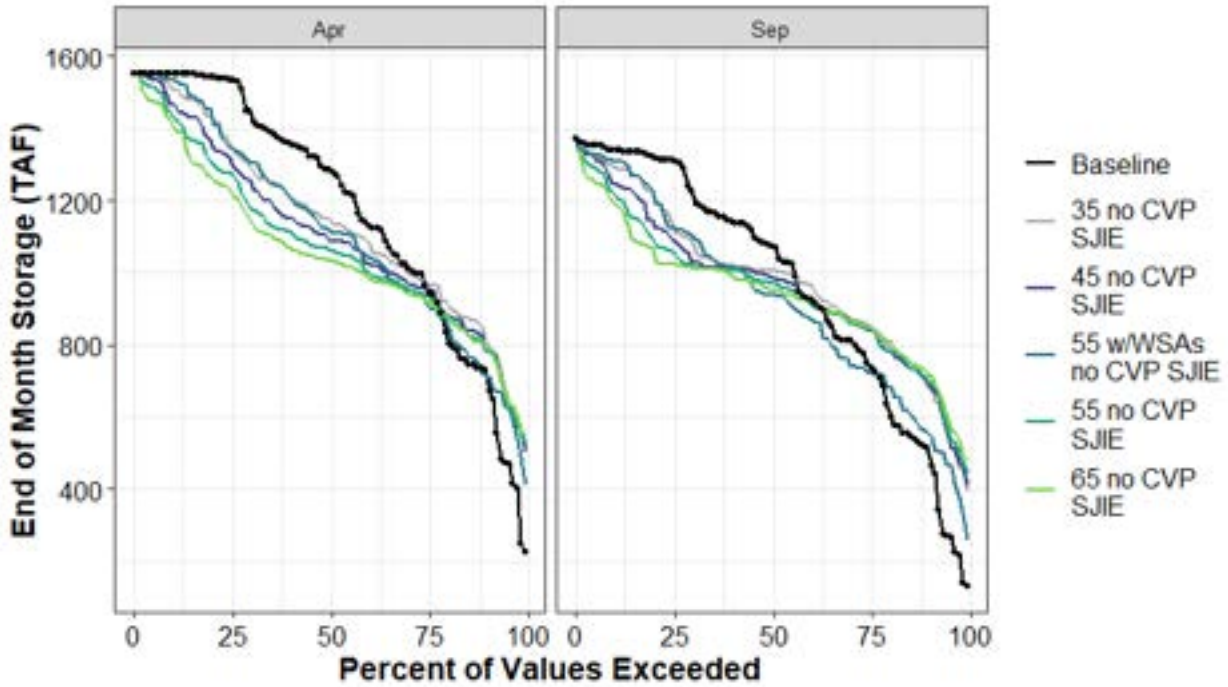

Figure H1a4-108. Lake Berryessa End of April and End of September Storage (TAF) Percent Exceedance Plot

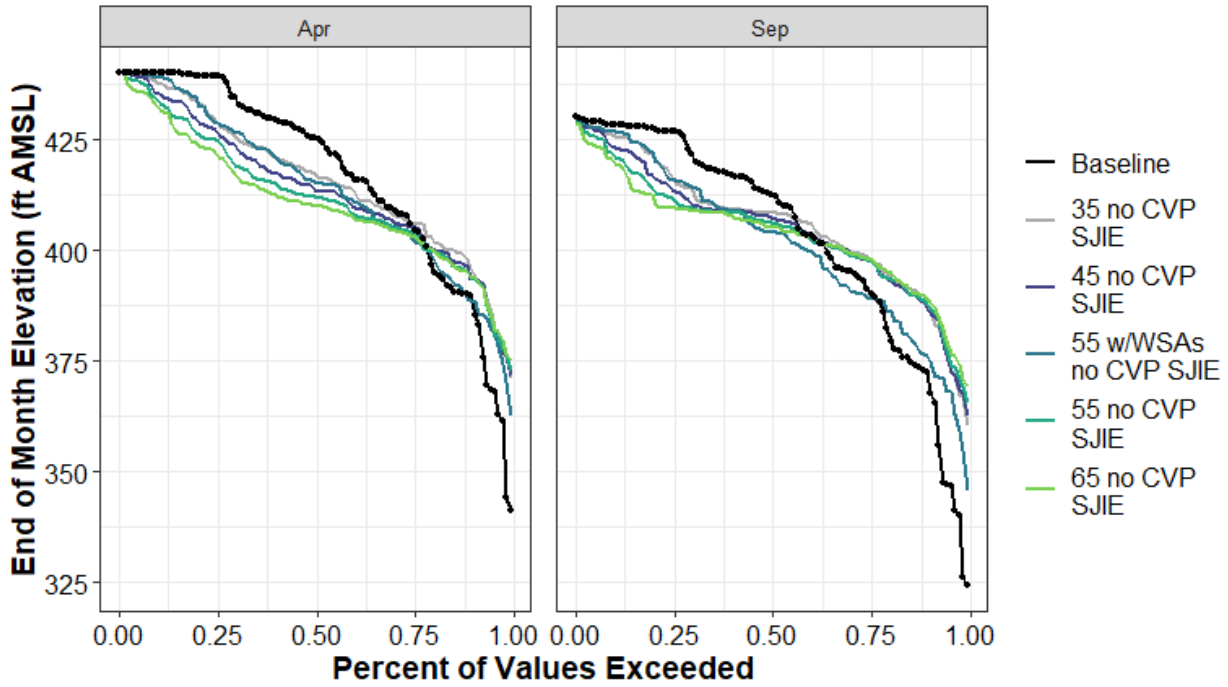

Figure H1a4-109. Lake Berryessa Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-219. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	130	261	281	129	310	348
10%	505	187	184	50	200	217
25%	744	109	100	-20	102	106
50%	1,073	-68	-84	-135	-102	-120
75%	1,312	-188	-223	-189	-257	-289
90%	1,342	-49	-96	-31	-129	-155
100%	1,370	-9	-15	-14	-20	-26
Mean	969	13	-7	-43	-20	-28

Table H1a4-220. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	324	36	38	21	41	45
10%	372	15	15	4	16	18
25%	391	8	7	-1	7	7
50%	413	-4	-5	-8	-6	-8
75%	427	-11	-13	-11	-15	-17
90%	428	-3	-5	-2	-7	-9
100%	430	0	-1	-1	-1	-1
Mean	403	3	1	-2	1	0

Table H1a4-221. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	227	275	280	183	295	319
10%	720	95	66	-3	66	69
25%	955	13	0	-44	-19	-31
50%	1,286	-134	-199	-166	-221	-253
75%	1,536	-188	-228	-192	-261	-316
90%	1,551	-43	-87	-19	-121	-146
100%	1,551	0	0	0	0	0
Mean	1,178	-33	-70	-59	-99	-121

Table H1a4-222. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	341	30	30	21	32	33
10%	389	7	5	0	5	5
25%	405	1	0	-3	-1	-2
50%	425	-8	-12	-10	-13	-15
75%	439	-10	-13	-11	-14	-18
90%	440	-2	-5	-1	-7	-8
100%	440	0	0	0	0	0
Mean	417	-1	-3	-3	-5	-6

H1a4.5.25 Lake Davis (Feather River Watershed)

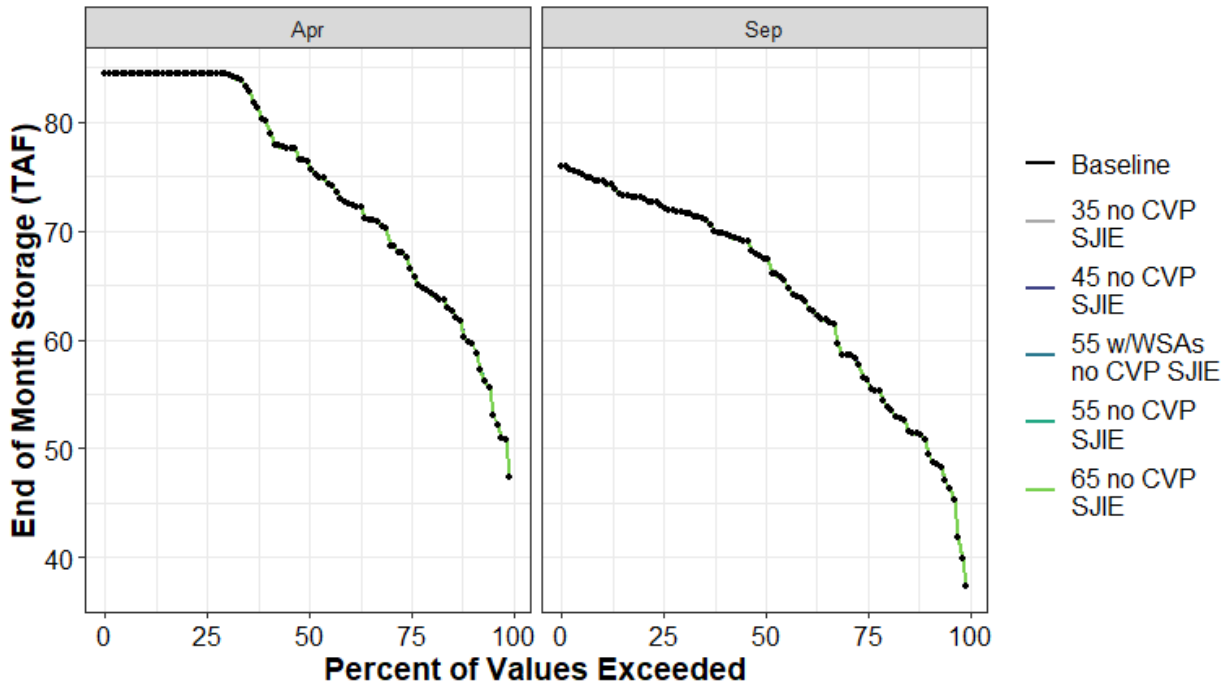

Figure H1a4-110. Lake Davis End of April and End of September Storage (TAF) Percent Exceedance Plot

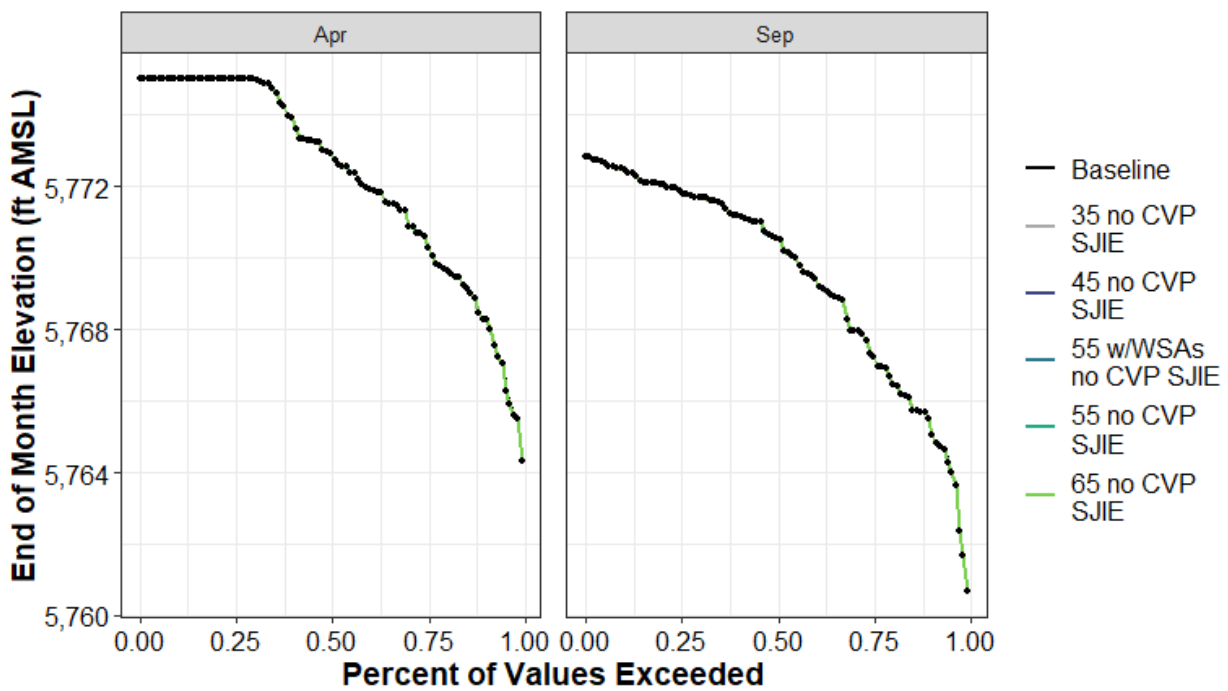

Figure H1a4-111. Lake Davis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-223. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	37	0	0	0	0	0
10%	51	0	0	0	0	0
25%	56	0	0	0	0	0
50%	67	0	0	0	0	0
75%	72	0	0	0	0	0
90%	75	0	0	0	0	0
100%	76	0	0	0	0	0
Mean	64	0	0	0	0	0

Table H1a4-224. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,761	0	0	0	0	0
10%	5,765	0	0	0	0	0
25%	5,767	0	0	0	0	0
50%	5,771	0	0	0	0	0
75%	5,772	0	0	0	0	0
90%	5,772	0	0	0	0	0
100%	5,773	0	0	0	0	0
Mean	5,769	0	0	0	0	0

Table H1a4-225. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	47	0	0	0	0	0
10%	60	0	0	0	0	0
25%	67	0	0	0	0	0
50%	76	0	0	0	0	0
75%	84	0	0	0	0	0
90%	84	0	0	0	0	0
100%	84	0	0	0	0	0
Mean	74	0	0	0	0	0

Table H1a4-226. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,764	0	0	0	0	0
10%	5,768	0	0	0	0	0
25%	5,770	0	0	0	0	0
50%	5,773	0	0	0	0	0
75%	5,775	0	0	0	0	0
90%	5,775	0	0	0	0	0
100%	5,775	0	0	0	0	0
Mean	5,772	0	0	0	0	0

H1a4.5.26 Lake Fordyce (Yuba River Watershed)

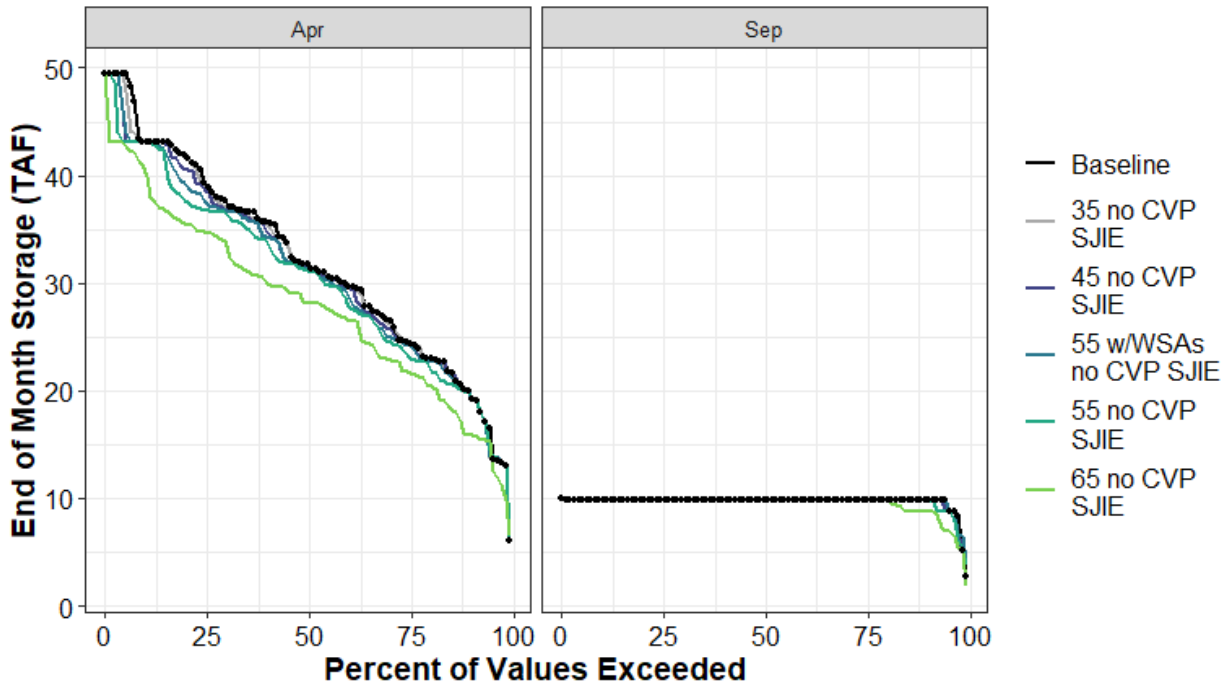

Figure H1a4-112. Lake Fordyce End of April and End of September Storage (TAF) Percent Exceedance Plot

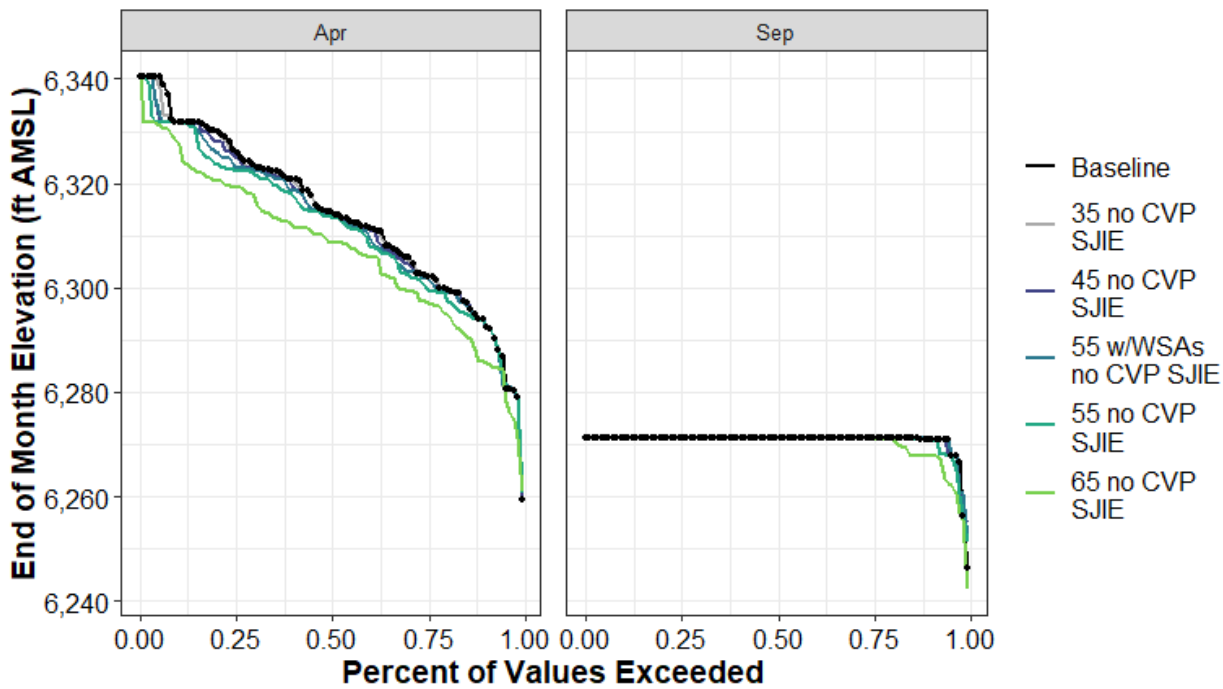

Figure H1a4-113. Lake Fordyce Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-227. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3	1	2	1	1	-1
10%	10	0	0	0	0	-1
25%	10	0	0	0	0	0
50%	10	0	0	0	0	0
75%	10	0	0	0	0	0
90%	10	0	0	0	0	0
100%	10	0	0	0	0	0
Mean	10	0	0	0	0	0

Table H1a4-228. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6,246	5	9	5	5	-4
10%	6,271	0	0	0	0	-3
25%	6,271	0	0	0	0	0
50%	6,271	0	0	0	0	0
75%	6,271	0	0	0	0	0
90%	6,271	0	0	0	0	0
100%	6,271	0	0	0	0	0
Mean	6,271	0	0	0	0	-1

Table H1a4-229. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6	0	0	0	0	0
10%	20	0	0	0	0	-4
25%	24	0	0	0	-1	-3
50%	32	0	0	0	0	-3
75%	39	0	-1	-2	-2	-4
90%	43	0	0	0	0	-3
100%	49	0	0	0	0	0
Mean	32	0	-1	-1	-2	-4

Table H1a4-230. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6,259	0	0	1	1	2
10%	6,294	0	0	0	0	-8
25%	6,302	0	0	0	-2	-5
50%	6,315	0	-1	-1	-1	-6
75%	6,326	-1	-1	-3	-4	-7
90%	6,332	0	0	0	0	-4
100%	6,340	0	0	0	0	0
Mean	6,314	0	-1	-1	-2	-6

H1a4.5.27 Lake Spaulding (Yuba River Watershed)

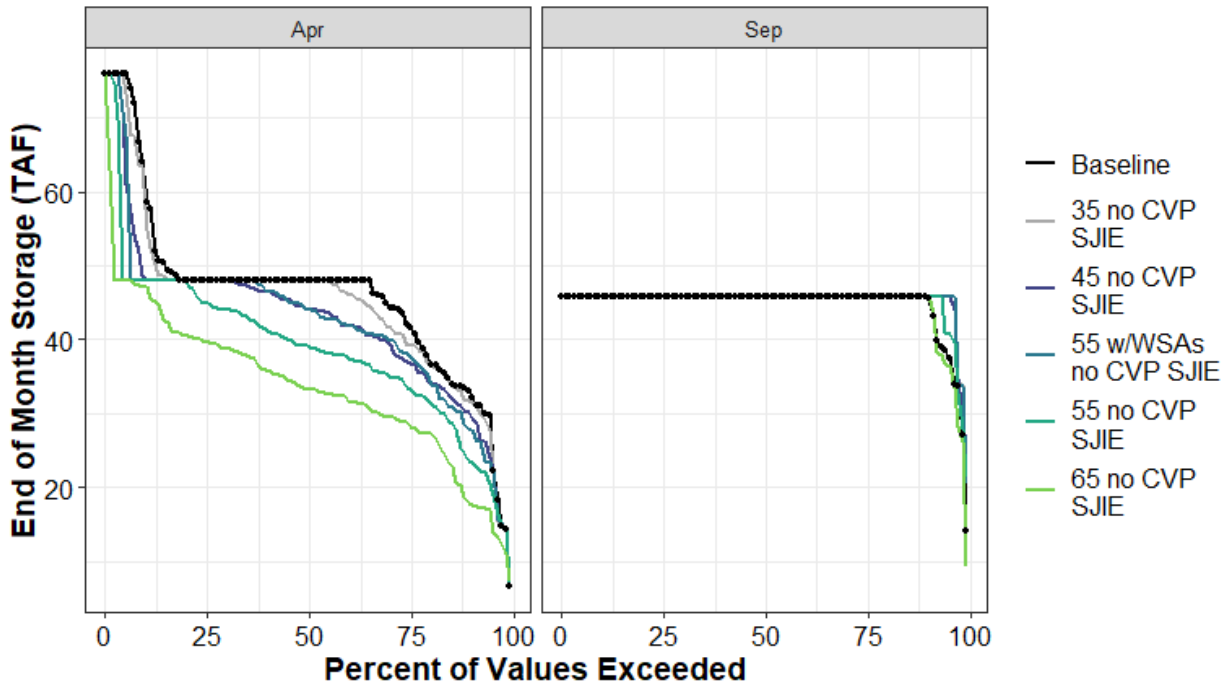

Figure H1a4-114. Lake Spaulding End of April and End of September Storage (TAF) Percent Exceedance Plot

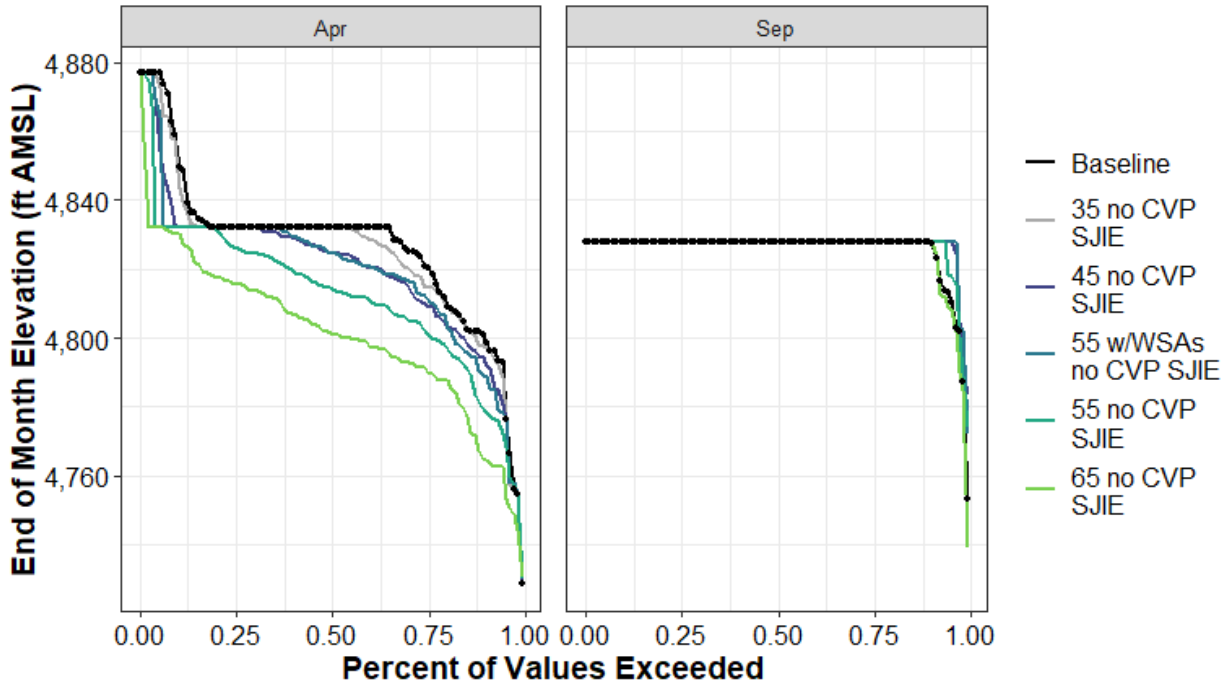

Figure H1a4-115. Lake Spaulding Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-231. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	14	6	11	6	7	-5
10%	46	0	0	0	0	0
25%	46	0	0	0	0	0
50%	46	0	0	0	0	0
75%	46	0	0	0	0	0
90%	46	0	0	0	0	0
100%	46	0	0	0	0	0
Mean	45	1	1	1	0	0

Table H1a4-232. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,753	19	30	19	21	-14
10%	4,828	0	0	0	0	0
25%	4,828	0	0	0	0	0
50%	4,828	0	0	0	0	0
75%	4,828	0	0	0	0	0
90%	4,828	0	0	0	0	0
100%	4,828	0	0	0	0	0
Mean	4,826	1	1	1	1	0

Table H1a4-233. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7	0	0	0	0	1
10%	33	-1	-3	-5	-9	-15
25%	42	-3	-5	-4	-9	-13
50%	48	0	-4	-4	-9	-15
75%	48	0	0	0	-3	-8
90%	60	-3	-11	-12	-12	-13
100%	76	0	0	0	0	0
Mean	46	-1	-4	-4	-7	-13

Table H1a4-234. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,728	0	0	2	2	2
10%	4,800	-3	-7	-11	-21	-36
25%	4,821	-6	-11	-9	-19	-30
50%	4,832	0	-7	-7	-18	-31
75%	4,832	0	0	0	-6	-16
90%	4,852	-5	-19	-20	-20	-21
100%	4,877	0	0	0	0	0
Mean	4,827	-2	-7	-7	-15	-26

H1a4.5.28 Lake Valley (American River Watershed)

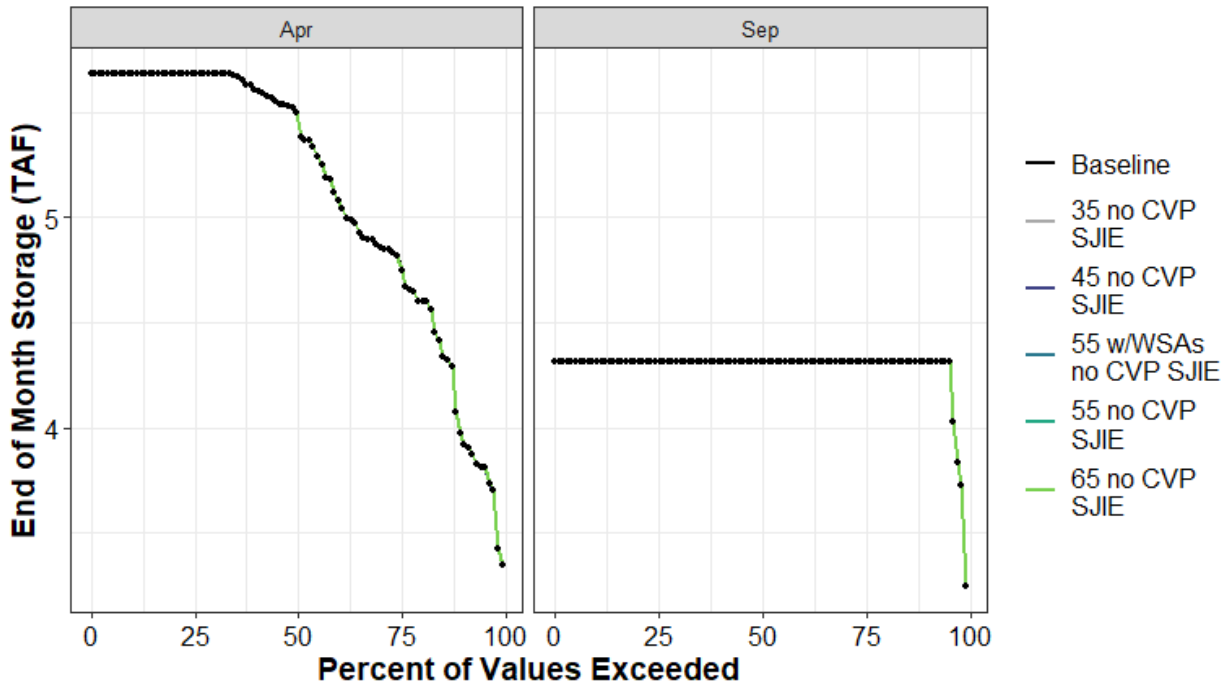

Figure H1a4-116. Lake Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-235. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3	0	0	0	0	0
10%	4	0	0	0	0	0
25%	4	0	0	0	0	0
50%	4	0	0	0	0	0
75%	4	0	0	0	0	0
90%	4	0	0	0	0	0
100%	4	0	0	0	0	0
Mean	4	0	0	0	0	0

Table H1a4-236. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3	0	0	0	0	0
10%	4	0	0	0	0	0
25%	5	0	0	0	0	0
50%	5	0	0	0	0	0
75%	6	0	0	0	0	0
90%	6	0	0	0	0	0
100%	6	0	0	0	0	0
Mean	5	0	0	0	0	0

H1a4.5.29 Little Grass Valley Reservoir (Feather River Watershed)

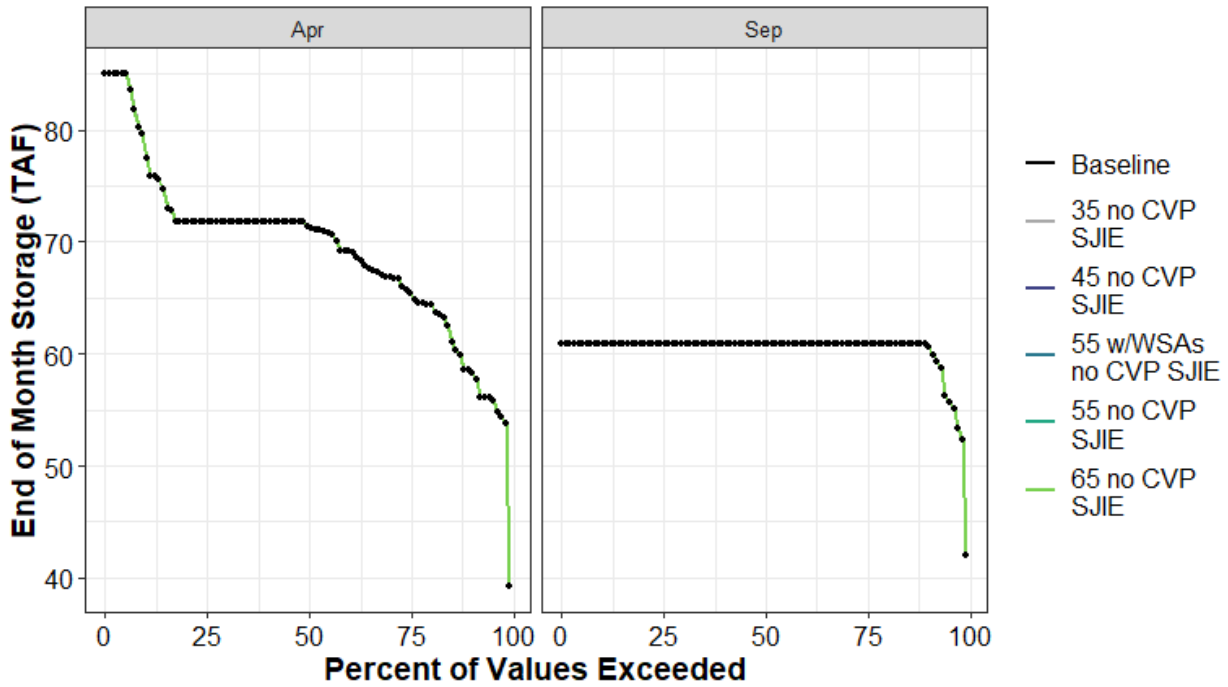

Figure H1a4-117. Little Grass Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

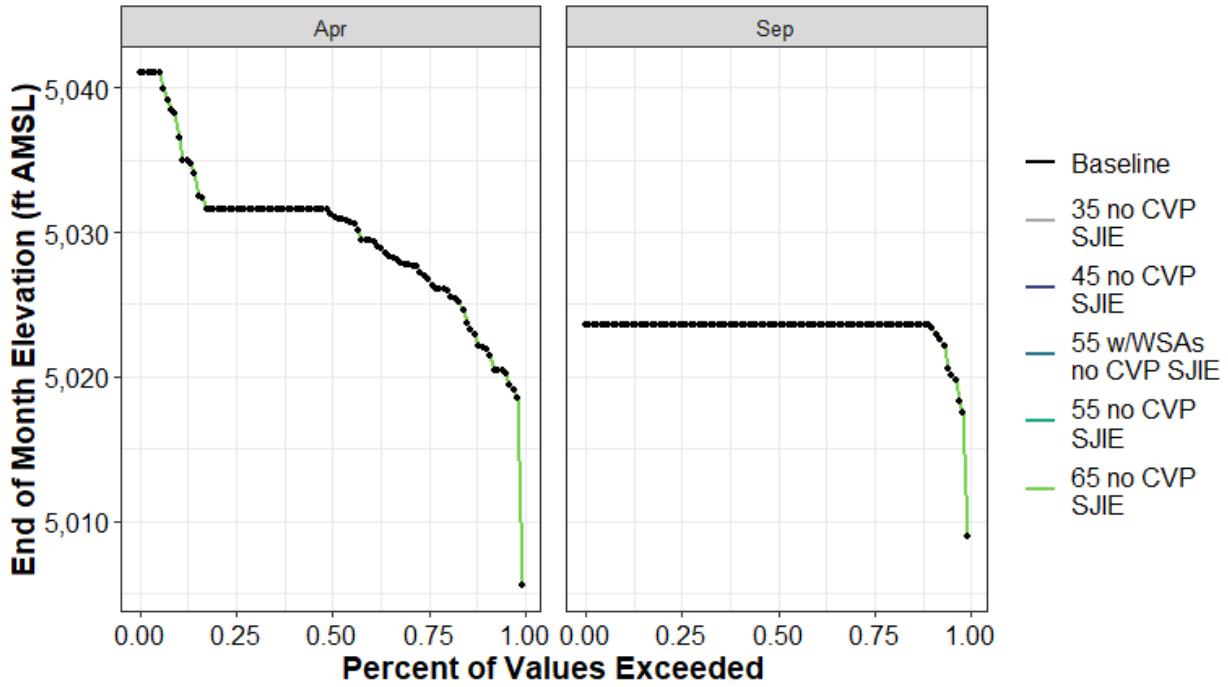

Figure H1a4-118. Little Grass Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-237. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	42	0	0	0	0	0
10%	61	0	0	0	0	0
25%	61	0	0	0	0	0
50%	61	0	0	0	0	0
75%	61	0	0	0	0	0
90%	61	0	0	0	0	0
100%	61	0	0	0	0	0
Mean	60	0	0	0	0	0

Table H1a4-238. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,009	0	0	0	0	0
10%	5,024	0	0	0	0	0
25%	5,024	0	0	0	0	0
50%	5,024	0	0	0	0	0
75%	5,024	0	0	0	0	0
90%	5,024	0	0	0	0	0
100%	5,024	0	0	0	0	0
Mean	5,023	0	0	0	0	0

Table H1a4-239. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	39	0	0	0	0	0
10%	59	0	0	0	0	0
25%	66	0	0	0	0	0
50%	71	0	0	0	0	0
75%	72	0	0	0	0	0
90%	78	0	0	0	0	0
100%	85	0	0	0	0	0
Mean	69	0	0	0	0	0

Table H1a4-240. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,006	0	0	0	0	0
10%	5,022	0	0	0	0	0
25%	5,027	0	0	0	0	0
50%	5,031	0	0	0	0	0
75%	5,032	0	0	0	0	0
90%	5,037	0	0	0	0	0
100%	5,041	0	0	0	0	0
Mean	5,030	0	0	0	0	0

H1a4.5.30 Loon Lake (American River Watershed)

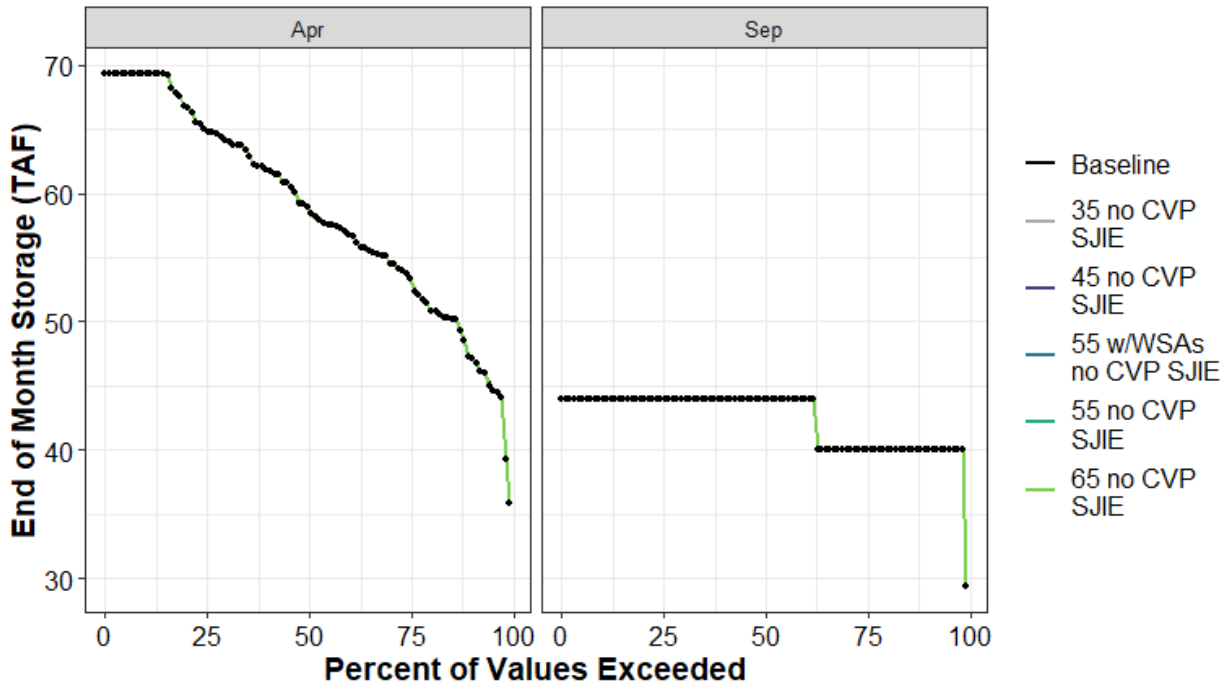

Figure H1a4-119. Loon Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

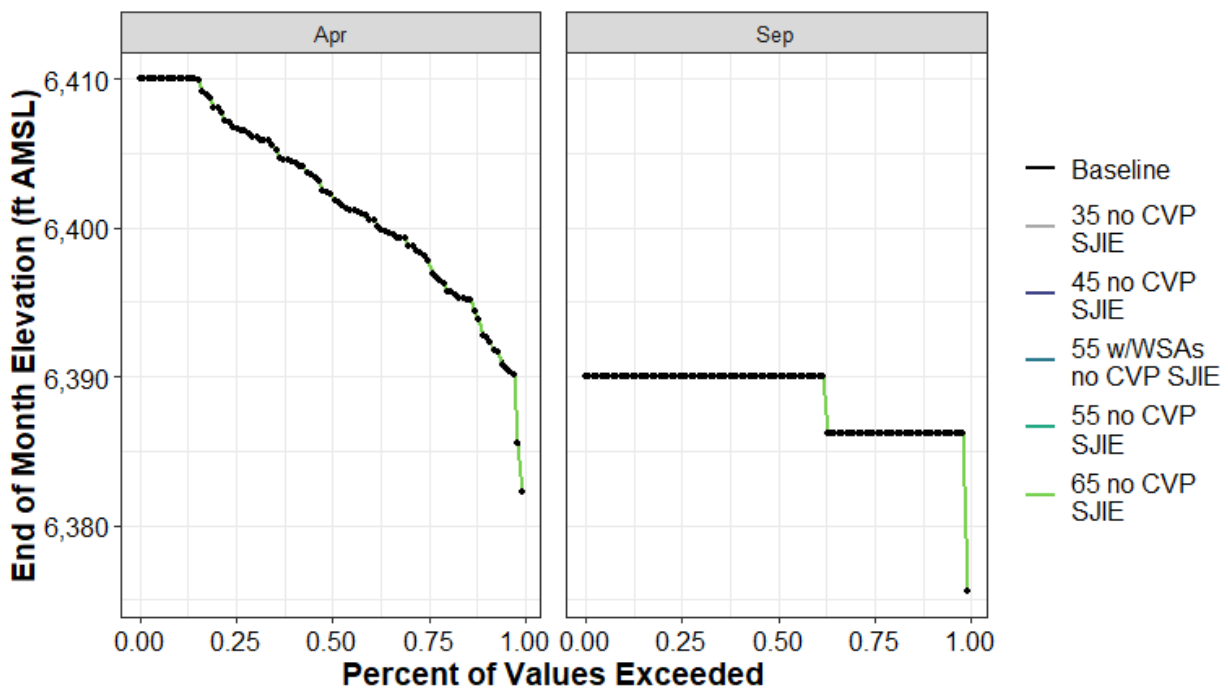

Figure H1a4-120. Loon Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-241. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	29	0	0	0	0	0
10%	40	0	0	0	0	0
25%	40	0	0	0	0	0
50%	44	0	0	0	0	0
75%	44	0	0	0	0	0
90%	44	0	0	0	0	0
100%	44	0	0	0	0	0
Mean	42	0	0	0	0	0

Table H1a4-242. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6,376	0	0	0	0	0
10%	6,386	0	0	0	0	0
25%	6,386	0	0	0	0	0
50%	6,390	0	0	0	0	0
75%	6,390	0	0	0	0	0
90%	6,390	0	0	0	0	0
100%	6,390	0	0	0	0	0
Mean	6,388	0	0	0	0	0

Table H1a4-243. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	36	0	0	0	0	0
10%	47	0	0	0	0	0
25%	54	0	0	0	0	0
50%	59	0	0	0	0	0
75%	65	0	0	0	0	0
90%	69	0	0	0	0	0
100%	69	0	0	0	0	0
Mean	59	0	0	0	0	0

Table H1a4-244. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	6,382	0	0	0	0	0
10%	6,393	0	0	0	0	0
25%	6,398	0	0	0	0	0
50%	6,402	0	0	0	0	0
75%	6,407	0	0	0	0	0
90%	6,410	0	0	0	0	0
100%	6,410	0	0	0	0	0
Mean	6,402	0	0	0	0	0

H1a4.5.31 Los Vaqueros Reservoir (Kellogg Creek Watershed)

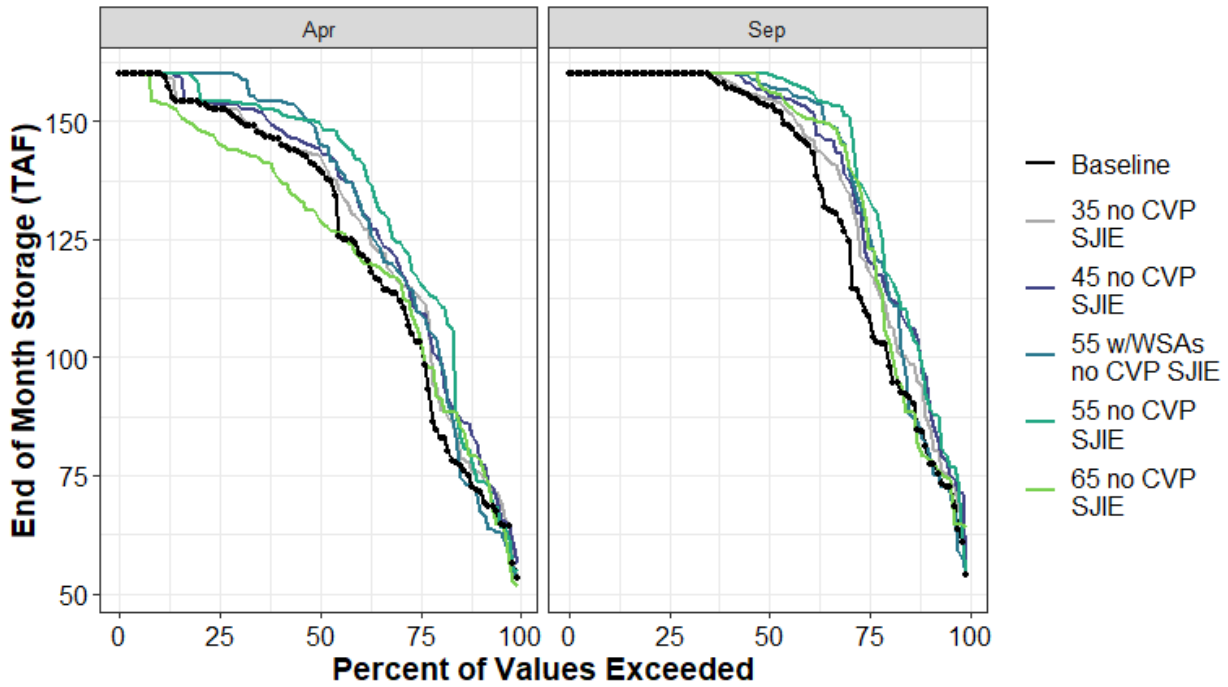

Figure H1a4-121. Los Vaqueros Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

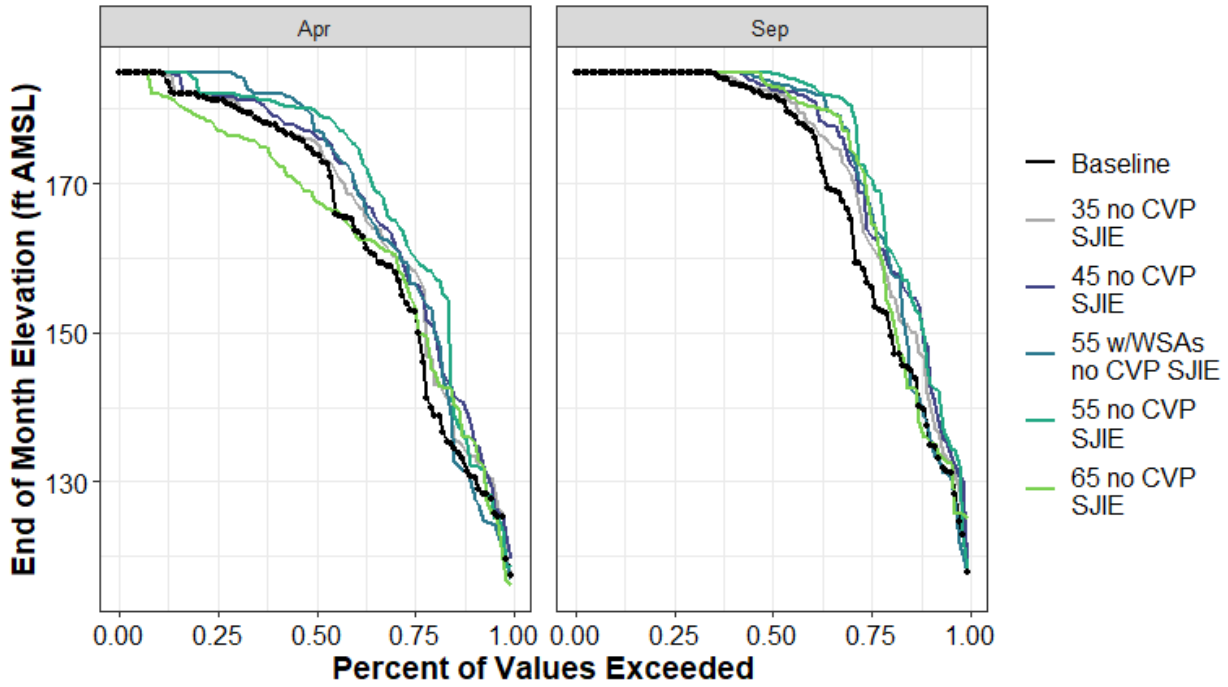

Figure H1a4-122. Los Vaqueros Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-245. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	54	0	0	0	1	10
10%	81	6	14	1	11	-2
25%	109	10	12	18	25	17
50%	153	1	2	4	7	3
75%	160	0	0	0	0	0
90%	160	0	0	0	0	0
100%	160	0	0	0	0	0
Mean	135	4	6	5	8	4

Table H1a4-246. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	118	0	0	0	0	7
10%	137	4	10	0	8	-1
25%	156	6	7	11	14	10
50%	182	1	1	2	3	2
75%	185	0	0	0	0	0
90%	185	0	0	0	0	0
100%	185	0	0	0	0	0
Mean	170	2	4	3	5	2

Table H1a4-247. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	53	0	3	-1	1	-2
10%	72	4	9	-2	2	7
25%	103	10	6	6	13	2
50%	140	3	5	6	10	-11
75%	152	0	1	8	2	-7
90%	160	0	0	0	0	-6
100%	160	0	0	0	0	0
Mean	125	3	5	6	8	-2

Table H1a4-248. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	117	0	2	0	1	-1
10%	131	3	7	-1	2	5
25%	153	6	4	4	8	1
50%	174	2	3	3	6	-6
75%	181	0	1	4	1	-4
90%	185	0	0	0	0	-3
100%	185	0	0	0	0	0
Mean	164	2	3	3	5	-1

H1a4.5.32 Lower Bear (Mokelumne River Watershed)

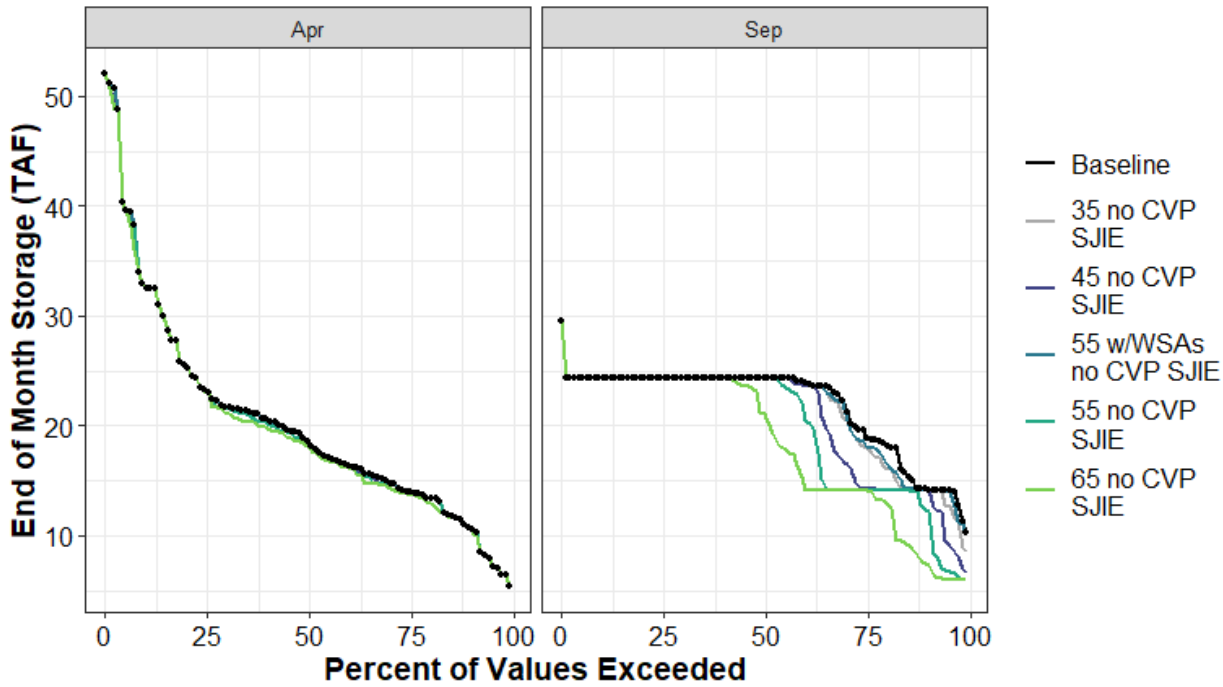

Figure H1a4-123. Lower Bear End of April and End of September Storage (TAF) Percent Exceedance Plot

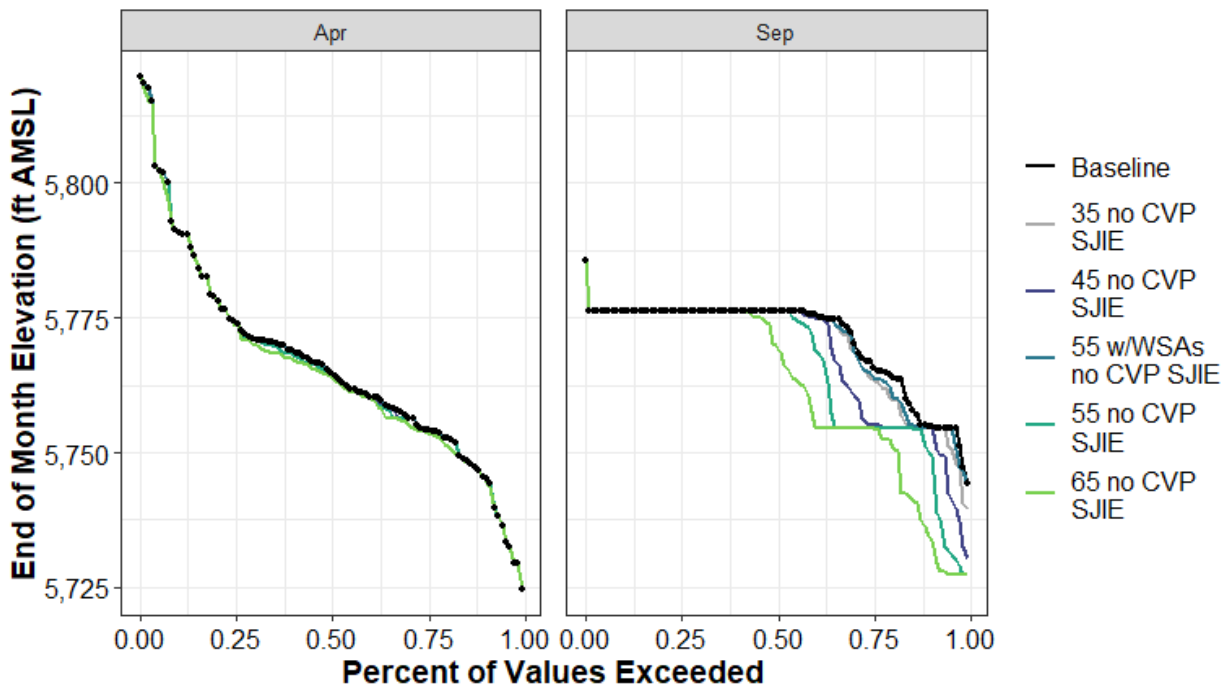

Figure H1a4-124. Lower Bear Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-249. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	10	-2	-4	0	-4	-4
10%	14	0	0	0	-2	-7
25%	19	-1	-5	-1	-5	-5
50%	24	0	0	0	0	-3
75%	24	0	0	0	0	0
90%	24	0	0	0	0	0
100%	30	0	0	0	0	0
Mean	22	0	-1	0	-2	-4

Table H1a4-250. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,744	-5	-14	0	-17	-17
10%	5,755	0	0	0	-5	-21
25%	5,766	-2	-11	-2	-12	-12
50%	5,776	0	0	0	0	-6
75%	5,776	0	0	0	0	0
90%	5,776	0	0	0	0	0
100%	5,786	0	0	0	0	0
Mean	5,771	-1	-3	-1	-5	-9

Table H1a4-251. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5	0	0	0	0	0
10%	11	0	0	0	0	0
25%	14	0	0	0	0	0
50%	19	0	0	0	0	0
75%	23	0	0	0	0	0
90%	33	0	0	0	0	0
100%	52	0	0	0	0	0
Mean	20	0	0	0	0	0

Table H1a4-252. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,725	0	0	0	0	0
10%	5,745	0	0	0	0	0
25%	5,754	0	0	0	-1	-1
50%	5,765	0	-1	0	-1	-1
75%	5,774	0	0	0	0	0
90%	5,791	0	0	0	0	0
100%	5,820	0	0	0	0	0
Mean	5,766	0	0	0	0	-1

H1a4.5.33 Merle Collins Reservoir (Yuba River Watershed)

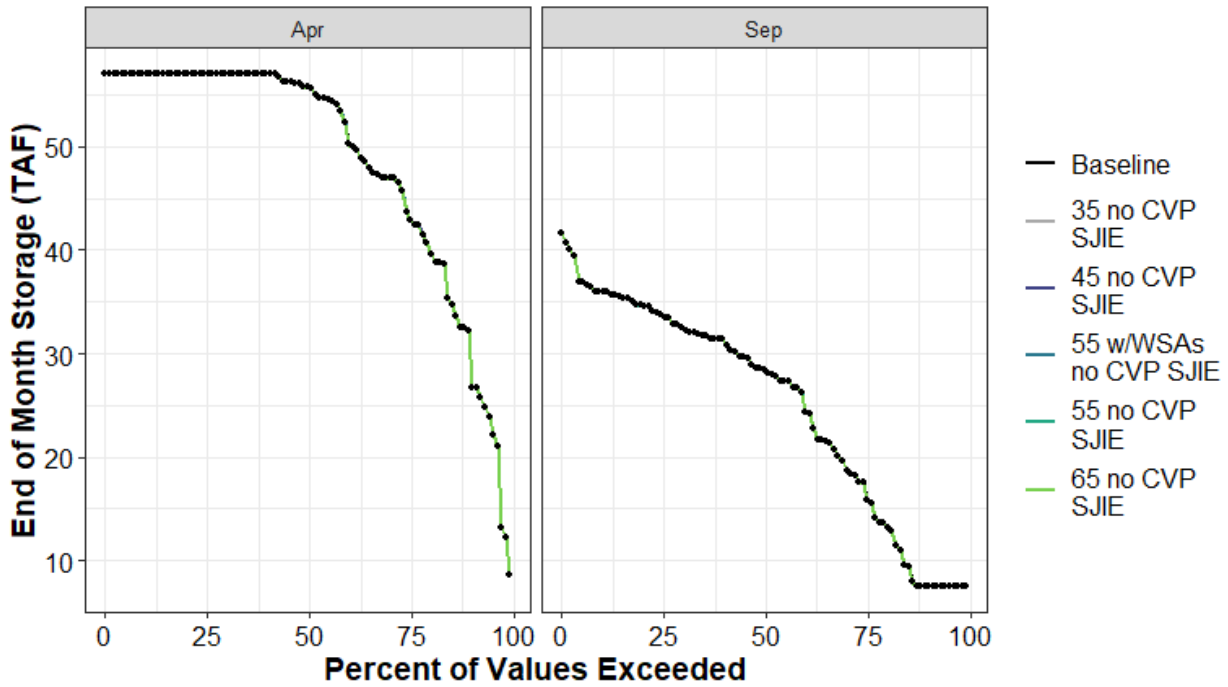

Figure H1a4-125. Merle Collins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

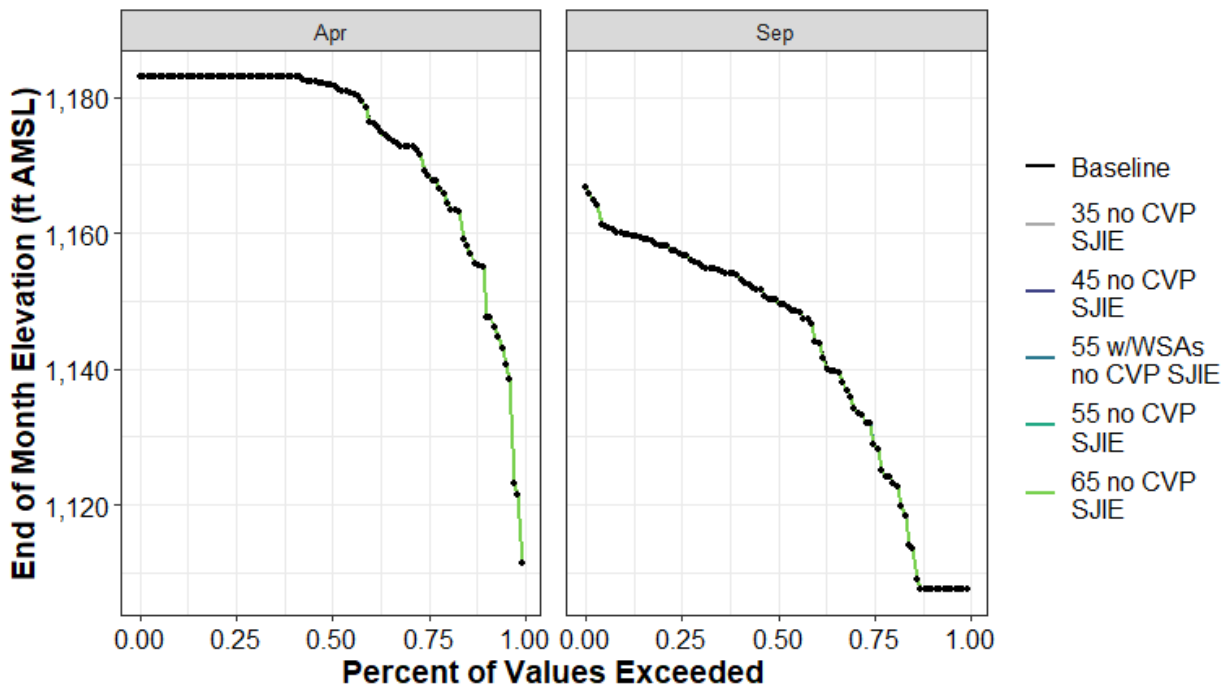

Figure H1a4-126. Merle Collins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-253. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	8	0	0	0	0	0
10%	8	0	0	0	0	0
25%	17	0	0	0	0	0
50%	29	0	0	0	0	0
75%	34	0	0	0	0	0
90%	36	0	0	0	0	0
100%	42	0	0	0	0	0
Mean	25	0	0	0	0	0

Table H1a4-254. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,108	0	0	0	0	0
10%	1,108	0	0	0	0	0
25%	1,130	0	0	0	0	0
50%	1,150	0	0	0	0	0
75%	1,157	0	0	0	0	0
90%	1,160	0	0	0	0	0
100%	1,167	0	0	0	0	0
Mean	1,142	0	0	0	0	0

Table H1a4-255. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	9	0	0	0	0	0
10%	31	0	0	0	0	0
25%	43	0	0	0	0	0
50%	56	0	0	0	0	0
75%	57	0	0	0	0	0
90%	57	0	0	0	0	0
100%	57	0	0	0	0	0
Mean	49	0	0	0	0	0

Table H1a4-256. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,111	0	0	0	0	0
10%	1,154	0	0	0	0	0
25%	1,169	0	0	0	0	0
50%	1,182	0	0	0	0	0
75%	1,183	0	0	0	0	0
90%	1,183	0	0	0	0	0
100%	1,183	0	0	0	0	0
Mean	1,173	0	0	0	0	0

H1a4.5.34 Mountain Meadows Reservoir (Feather River Watershed)

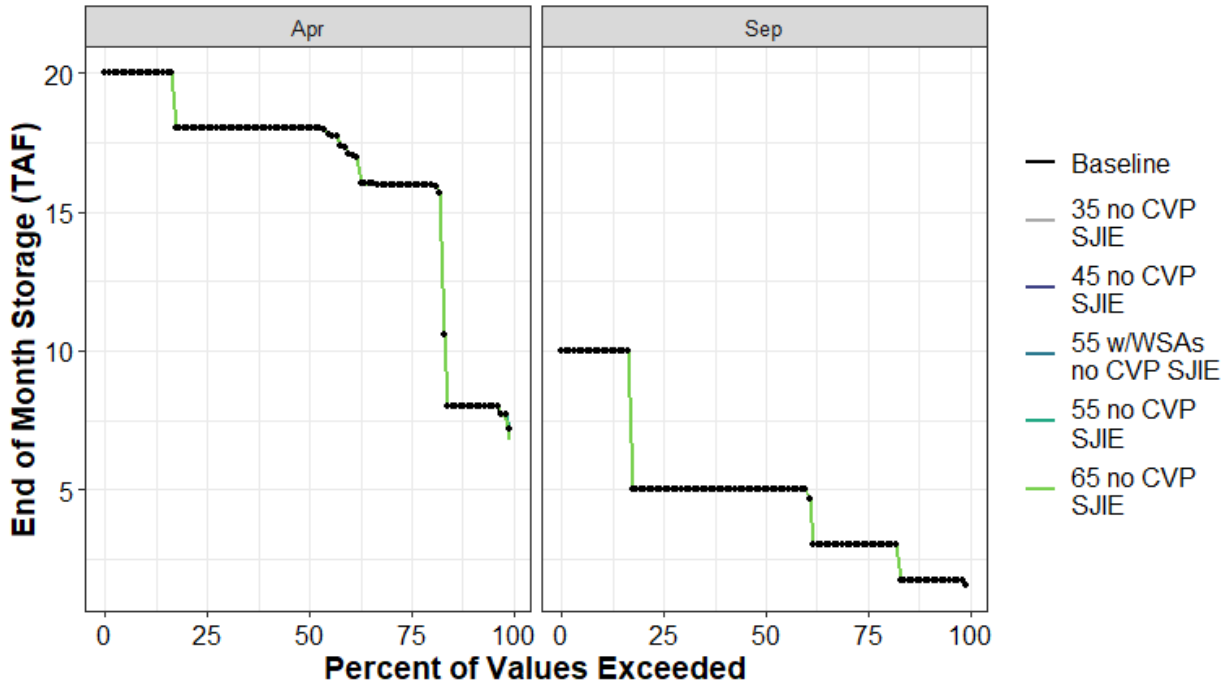

Figure H1a4-127. Mountain Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-257. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2	0	0	0	0	0
10%	2	0	0	0	0	0
25%	3	0	0	0	0	0
50%	5	0	0	0	0	0
75%	5	0	0	0	0	0
90%	10	0	0	0	0	0
100%	10	0	0	0	0	0
Mean	5	0	0	0	0	0

Table H1a4-258. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7	0	0	0	0	0
10%	8	0	0	0	0	0
25%	16	0	0	0	0	0
50%	18	0	0	0	0	0
75%	18	0	0	0	0	0
90%	20	0	0	0	0	0
100%	20	0	0	0	0	0
Mean	16	0	0	0	0	0

H1a4.5.35 New Bullards Bar Reservoir (Yuba River Watershed)

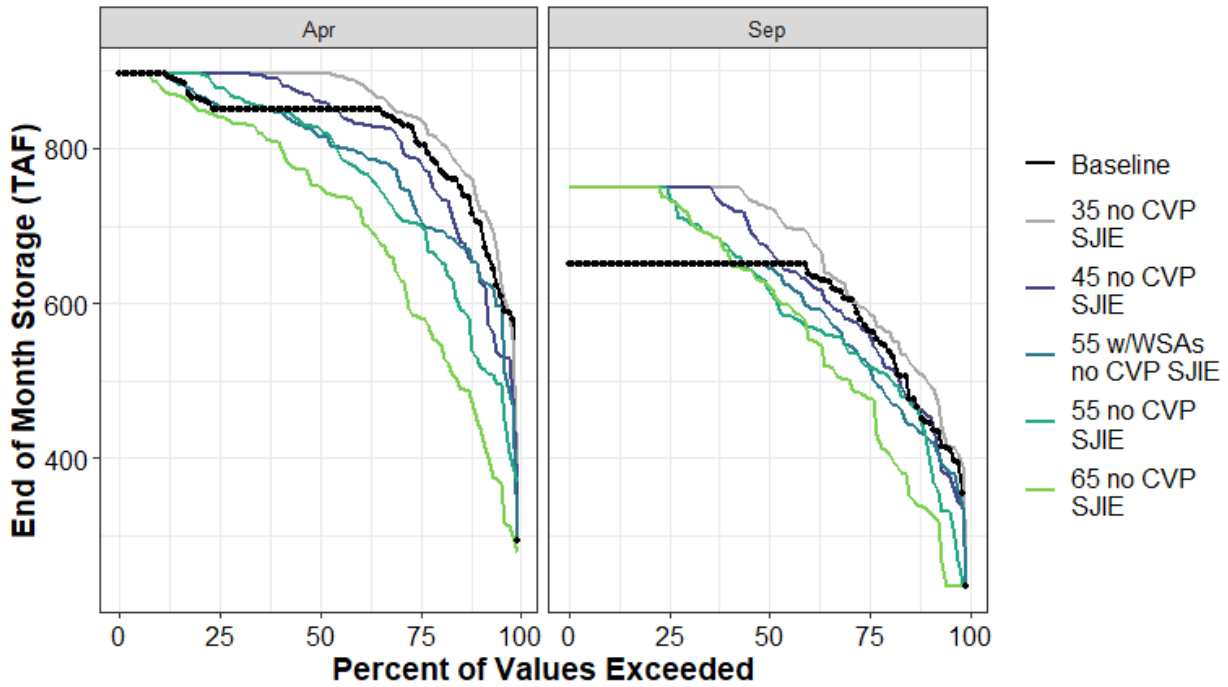

Figure H1a4-128. New Bullards Bar Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

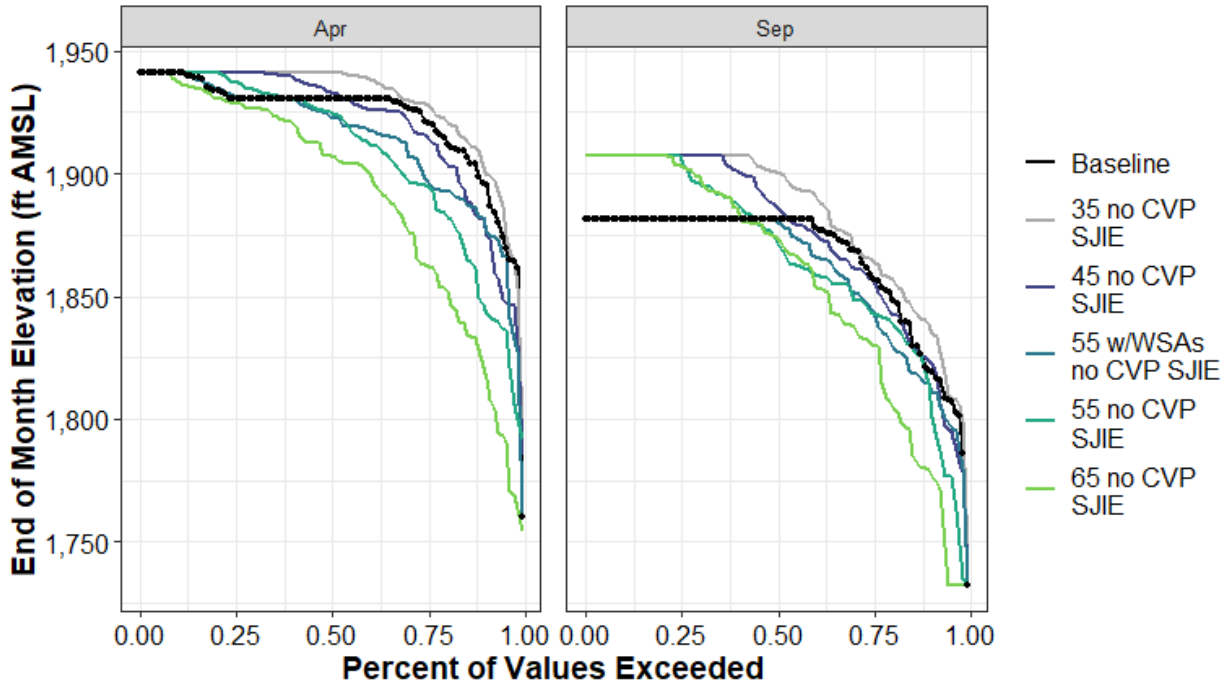

Figure H1a4-129. New Bullards Bar Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-259. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	234	21	5	0	2	0
10%	446	55	11	-17	-23	-111
25%	567	23	-4	-44	-49	-89
50%	650	73	21	-3	-32	-26
75%	650	100	100	0	92	84
90%	650	100	100	0	100	100
100%	650	100	100	0	100	100
Mean	597	65	38	-19	5	-20

Table H1a4-260. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,732	10	2	0	1	0
10%	1,820	18	4	-6	-8	-41
25%	1,858	7	-1	-13	-15	-28
50%	1,881	19	6	-1	-9	-7
75%	1,881	26	26	0	24	22
90%	1,881	26	26	0	26	26
100%	1,881	26	26	0	26	26
Mean	1,865	17	9	-6	0	-9

Table H1a4-261. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	293	81	60	2	77	-13
10%	706	25	-59	-57	-179	-259
25%	807	32	-22	-95	-105	-224
50%	850	46	11	-35	-23	-99
75%	850	46	46	4	28	-8
90%	896	0	0	0	0	-15
100%	896	0	0	0	0	0
Mean	818	29	-5	-34	-52	-113

Table H1a4-262. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,760	33	25	1	32	-6
10%	1,896	6	-15	-15	-50	-76
25%	1,921	7	-5	-23	-26	-58
50%	1,931	10	3	-8	-5	-23
75%	1,931	10	10	1	7	-2
90%	1,941	0	0	0	0	-3
100%	1,941	0	0	0	0	0
Mean	1,922	7	-2	-8	-14	-30

H1a4.5.36 New Hogan Reservoir (Calaveras River Watershed)

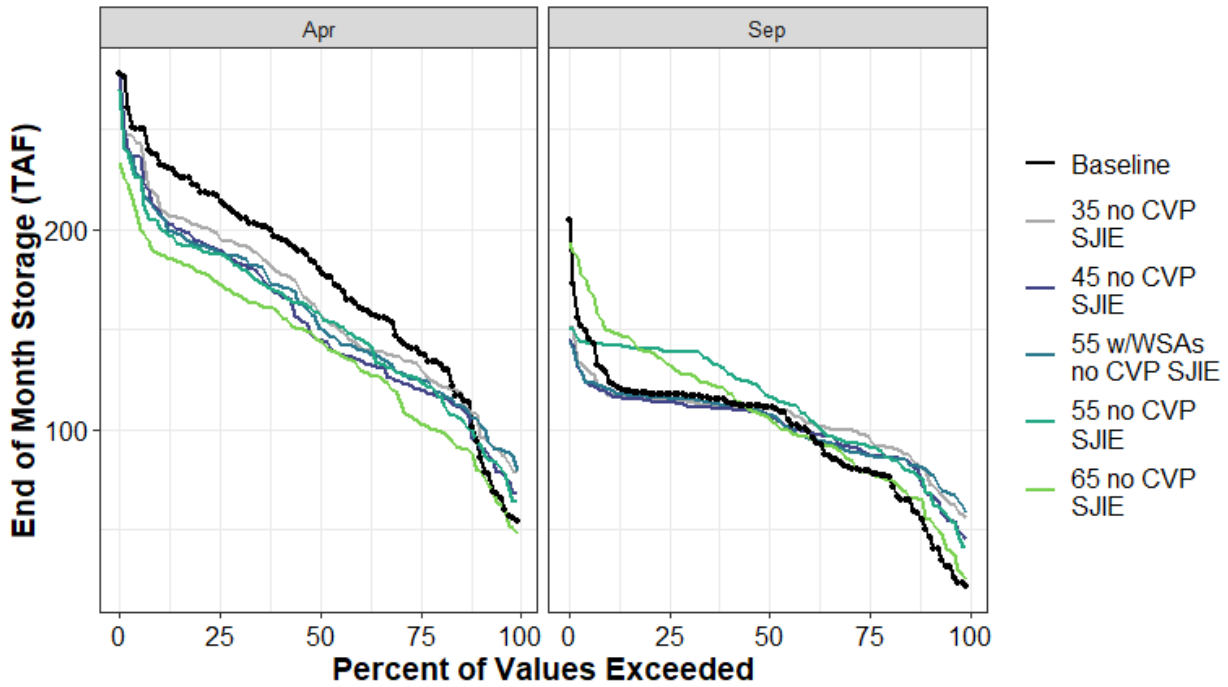

Figure H1a4-130. New Hogan Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

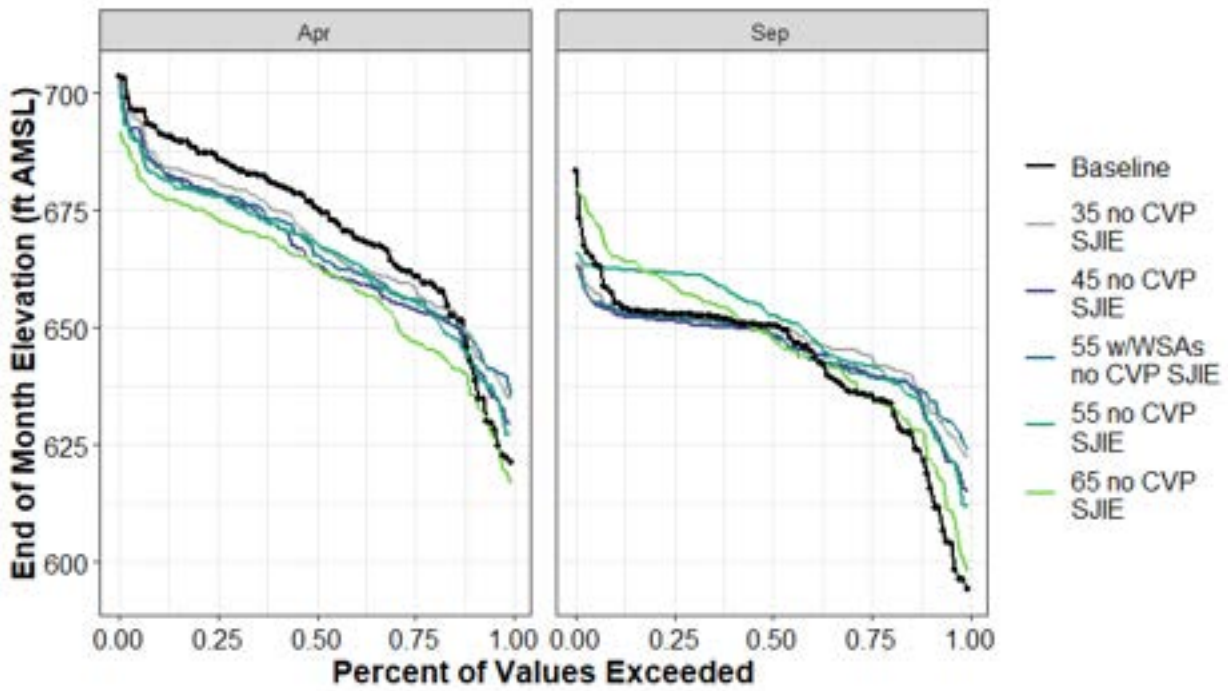

Figure H1a4-131. New Hogan Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-263. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	22	34	24	37	20	4
10%	50	28	19	30	19	6
25%	80	17	9	8	12	-1
50%	111	-1	-4	-4	6	-5
75%	118	-3	-4	-2	22	15
90%	124	-7	-6	-4	18	25
100%	205	-54	-60	-61	-54	-12
Mean	99	6	2	3	13	8

Table H1a4-264. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	594	28	21	30	18	4
10%	618	16	12	17	12	4
25%	636	8	4	4	6	-1
50%	650	0	-2	-2	2	-2
75%	653	-1	-2	-1	8	6
90%	656	-3	-2	-2	7	10
100%	683	-18	-20	-20	-18	-3
Mean	643	4	2	3	7	3

Table H1a4-265. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	55	24	13	25	10	-7
10%	93	13	1	12	0	-13
25%	139	-7	-19	-14	-14	-35
50%	180	-22	-36	-30	-22	-35
75%	215	-19	-25	-26	-28	-42
90%	234	-22	-24	-26	-32	-46
100%	278	0	0	-8	-8	-45
Mean	174	-11	-20	-17	-19	-33

Table H1a4-266. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	621	13	8	14	6	-5
10%	642	6	1	6	0	-6
25%	661	-3	-7	-5	-6	-14
50%	676	-7	-12	-10	-7	-12
75%	686	-6	-8	-8	-8	-13
90%	692	-6	-7	-8	-9	-14
100%	703	0	0	-2	-2	-12
Mean	672	-3	-6	-5	-6	-11

H1a4.5.37 Oroville Reservoir (Feather River Watershed)

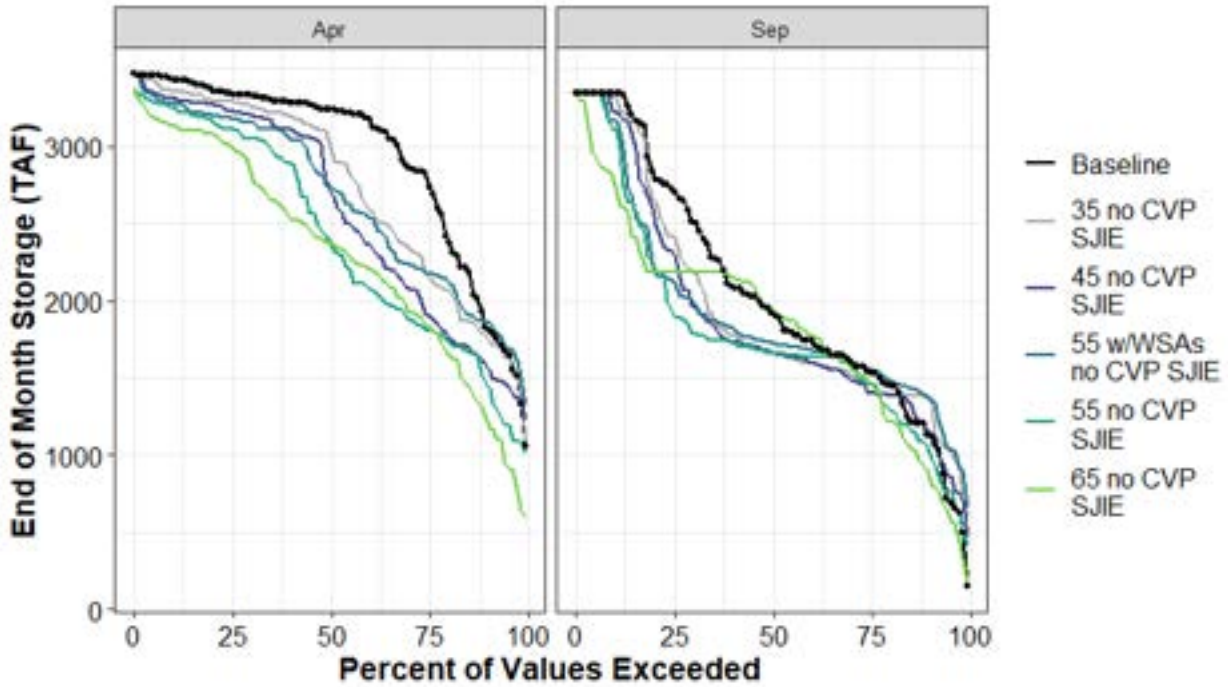

Figure H1a4-132. Oroville Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

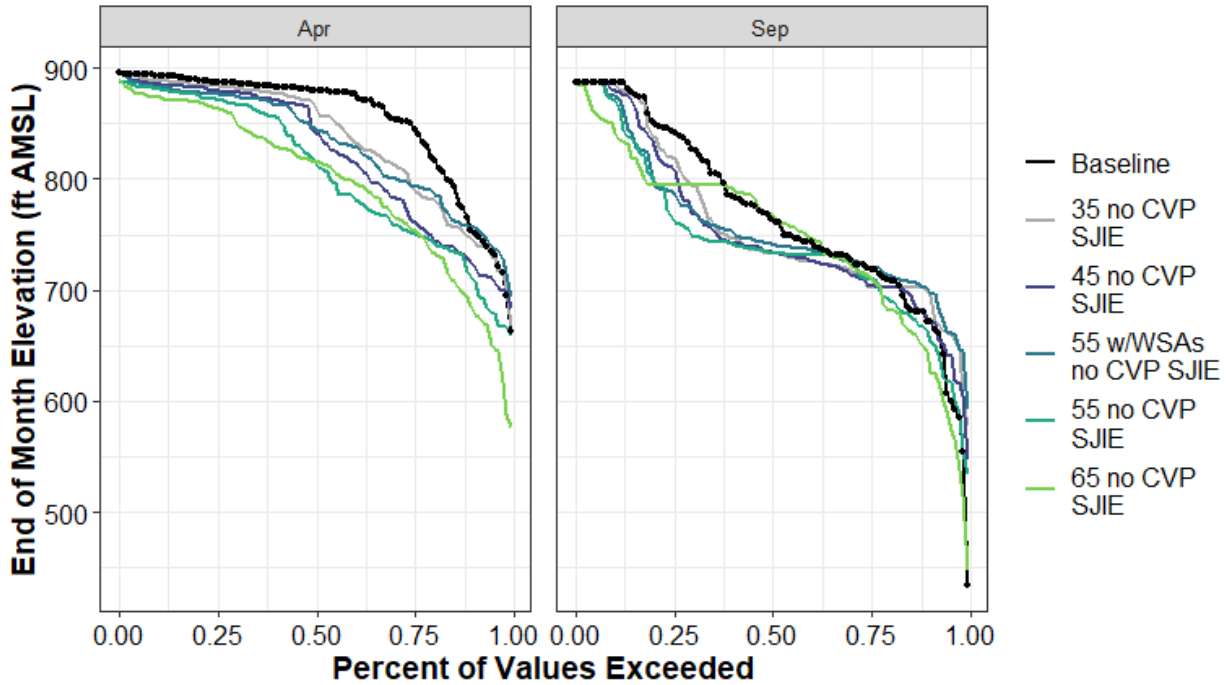

Figure H1a4-133. Oroville Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-267. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	146	446	319	510	268	26
10%	1,129	232	27	251	-92	-248
25%	1,539	-141	-127	16	-83	-65
50%	1,919	-265	-254	-192	-266	39
75%	2,713	-302	-406	-592	-800	-525
90%	3,350	-36	-123	-187	-245	-621
100%	3,351	0	0	0	0	0
Mean	2,057	-109	-168	-141	-259	-206

Table H1a4-268. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	434	143	113	159	100	13
10%	672	27	3	29	-11	-30
25%	720	-16	-15	2	-10	-8
50%	764	-31	-29	-22	-31	5
75%	843	-24	-34	-56	-80	-48
90%	888	-2	-8	-13	-17	-44
100%	888	0	0	0	0	0
Mean	768	-9	-15	-10	-25	-19

Table H1a4-269. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,056	30	170	261	-46	-469
10%	1,827	-56	-245	36	-363	-591
25%	2,779	-614	-867	-595	-966	-937
50%	3,238	-210	-511	-487	-844	-864
75%	3,343	-54	-113	-159	-231	-347
90%	3,435	-73	-125	-154	-179	-301
100%	3,470	0	0	0	-116	-92
Mean	2,946	-215	-363	-285	-542	-642

Table H1a4-270. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	664	3	20	30	-5	-88
10%	753	-6	-28	4	-42	-69
25%	848	-55	-85	-53	-96	-93
50%	880	-14	-37	-35	-63	-65
75%	887	-4	-8	-11	-16	-24
90%	893	-5	-8	-10	-12	-20
100%	896	0	0	0	-8	-6
Mean	854	-18	-32	-22	-48	-57

H1a4.5.38 Pardee Reservoir (Mokelumne River Watershed)

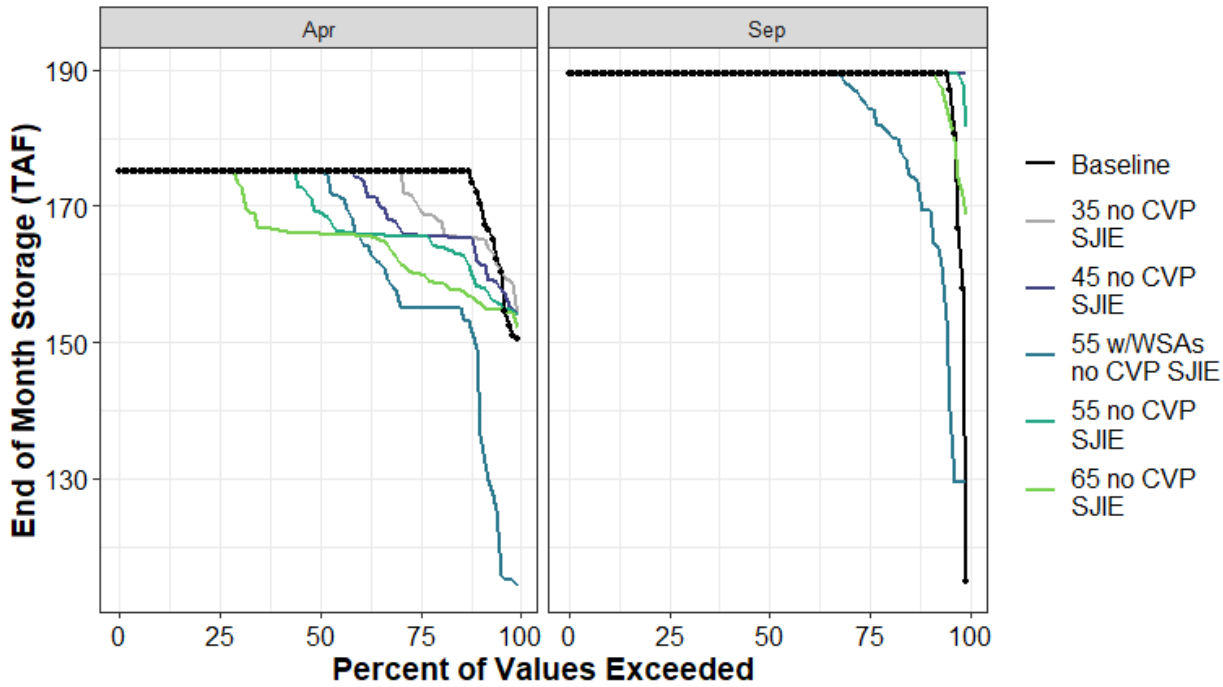

Figure H1a4-134. Pardee Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

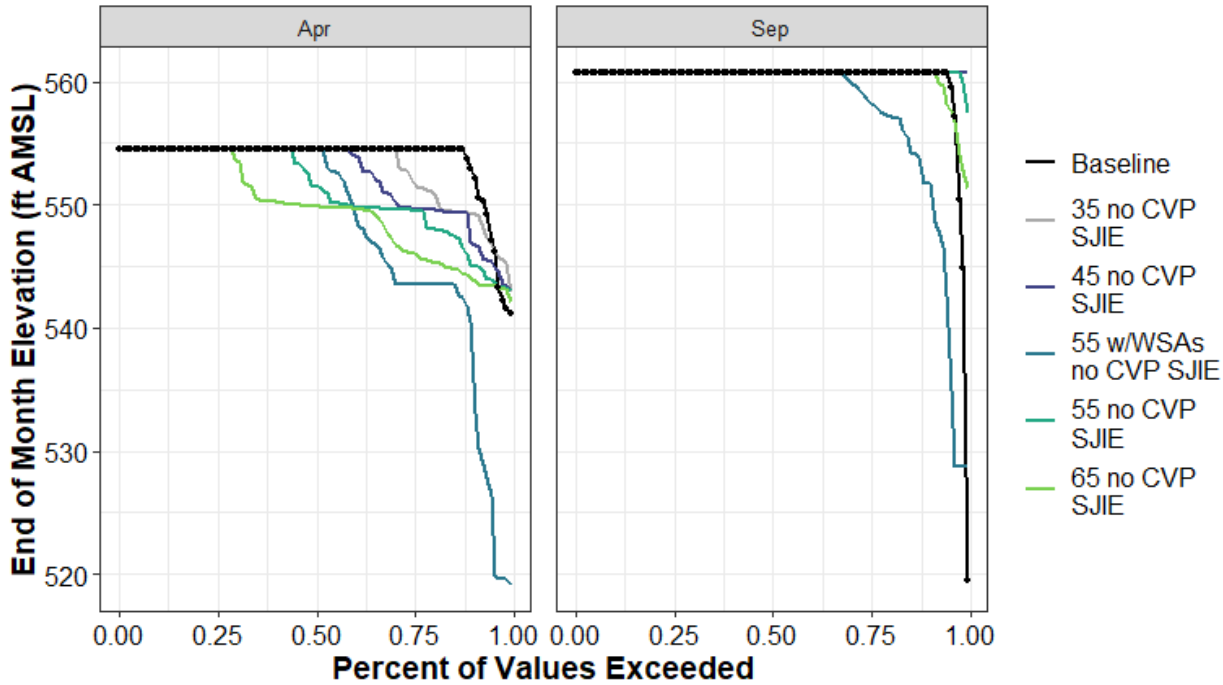

Figure H1a4-135. Pardee Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-271. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	115	74	74	14	67	54
10%	189	0	0	-20	0	0
25%	189	0	0	-5	0	0
50%	189	0	0	0	0	0
75%	189	0	0	0	0	0
90%	189	0	0	0	0	0
100%	189	0	0	0	0	0
Mean	188	1	1	-5	1	1

Table H1a4-272. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	519	41	41	9	38	32
10%	561	0	0	-9	0	0
25%	561	0	0	-2	0	0
50%	561	0	0	0	0	0
75%	561	0	0	0	0	0
90%	561	0	0	0	0	0
100%	561	0	0	0	0	0
Mean	560	1	1	-2	1	0

Table H1a4-273. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	150	3	4	-36	4	2
10%	172	-6	-10	-25	-13	-16
25%	175	-5	-9	-20	-10	-15
50%	175	0	0	0	-6	-9
75%	175	0	0	0	0	0
90%	175	0	0	0	0	0
100%	175	0	0	0	0	0
Mean	174	-1	-3	-10	-5	-7

Table H1a4-274. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	541	2	2	-22	2	1
10%	553	-4	-6	-14	-8	-9
25%	555	-3	-5	-11	-5	-9
50%	555	0	0	0	-3	-5
75%	555	0	0	0	0	0
90%	555	0	0	0	0	0
100%	555	0	0	0	0	0
Mean	554	-1	-1	-5	-2	-4

H1a4.5.39 Philbrook Round Valley (Feather River Watershed)

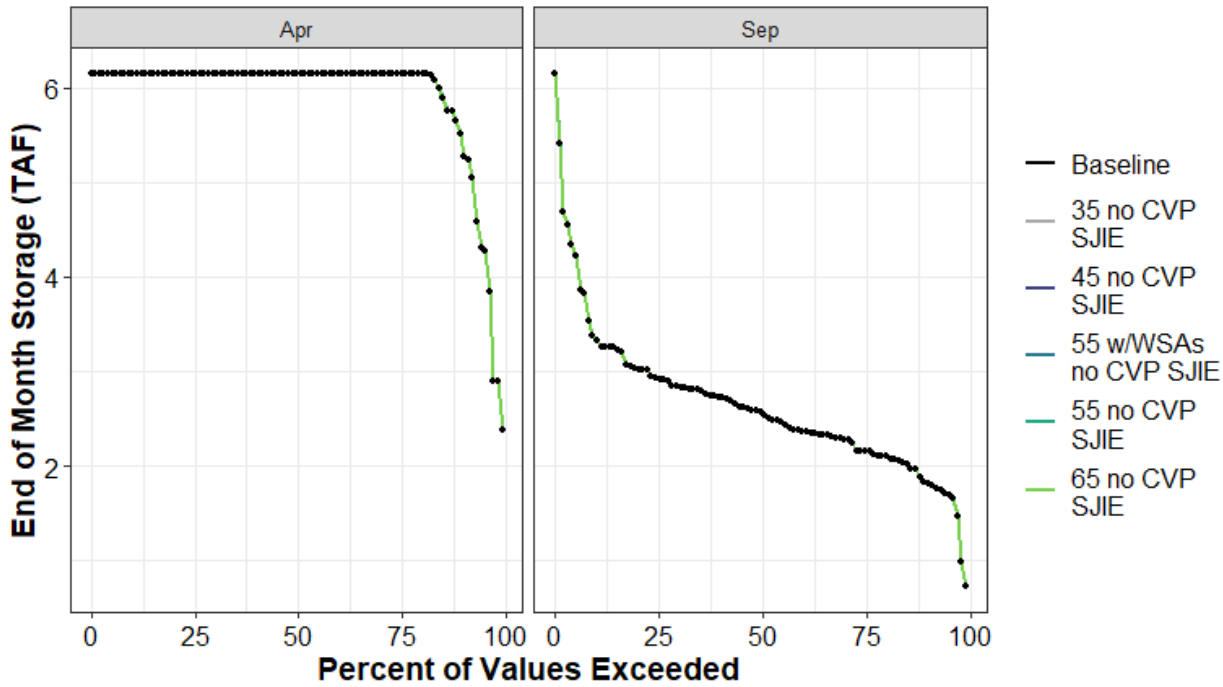

Figure H1a4-136. Philbrook Round Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-275. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Philbrook Round Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1	0	0	0	0	0
10%	2	0	0	0	0	0
25%	2	0	0	0	0	0
50%	3	0	0	0	0	0
75%	3	0	0	0	0	0
90%	3	0	0	0	0	0
100%	6	0	0	0	0	0
Mean	3	0	0	0	0	0

Table H1a4-276. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Philbrook Round Valley

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2	0	0	0	0	0
10%	5	0	0	0	0	0
25%	6	0	0	0	0	0
50%	6	0	0	0	0	0
75%	6	0	0	0	0	0
90%	6	0	0	0	0	0
100%	6	0	0	0	0	0
Mean	6	0	0	0	0	0

H1a4.5.40 Rollins Reservoir (Bear River Watershed)

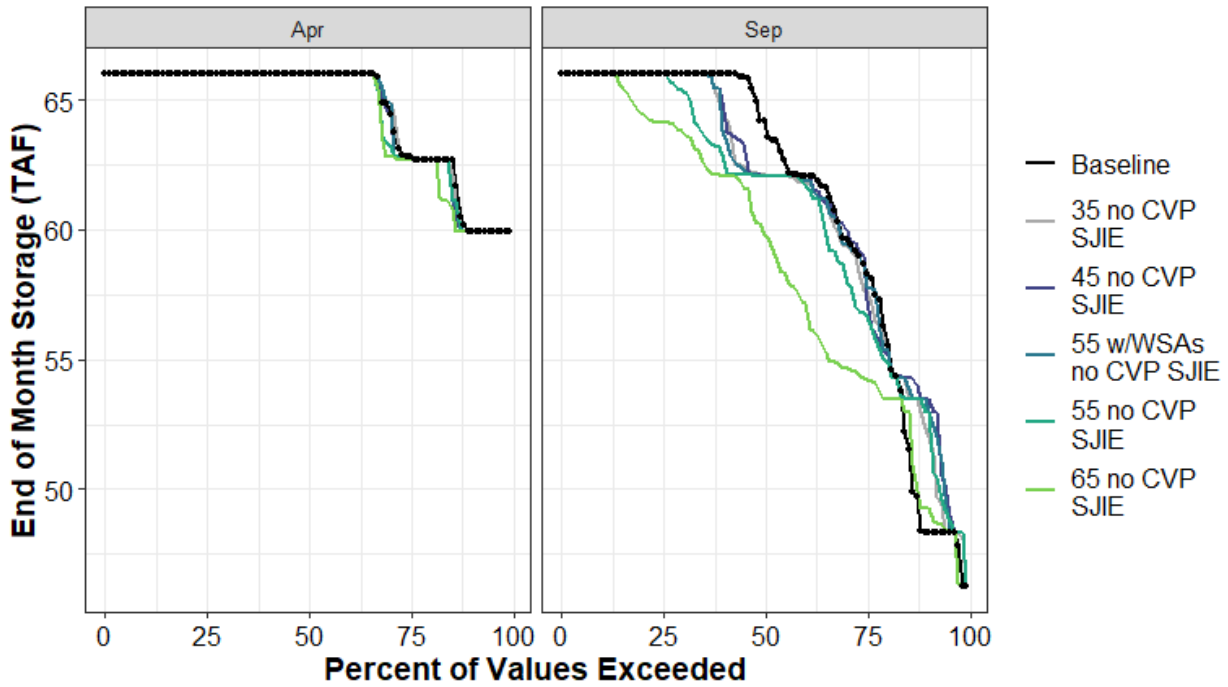

Figure H1a4-137. Rollins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

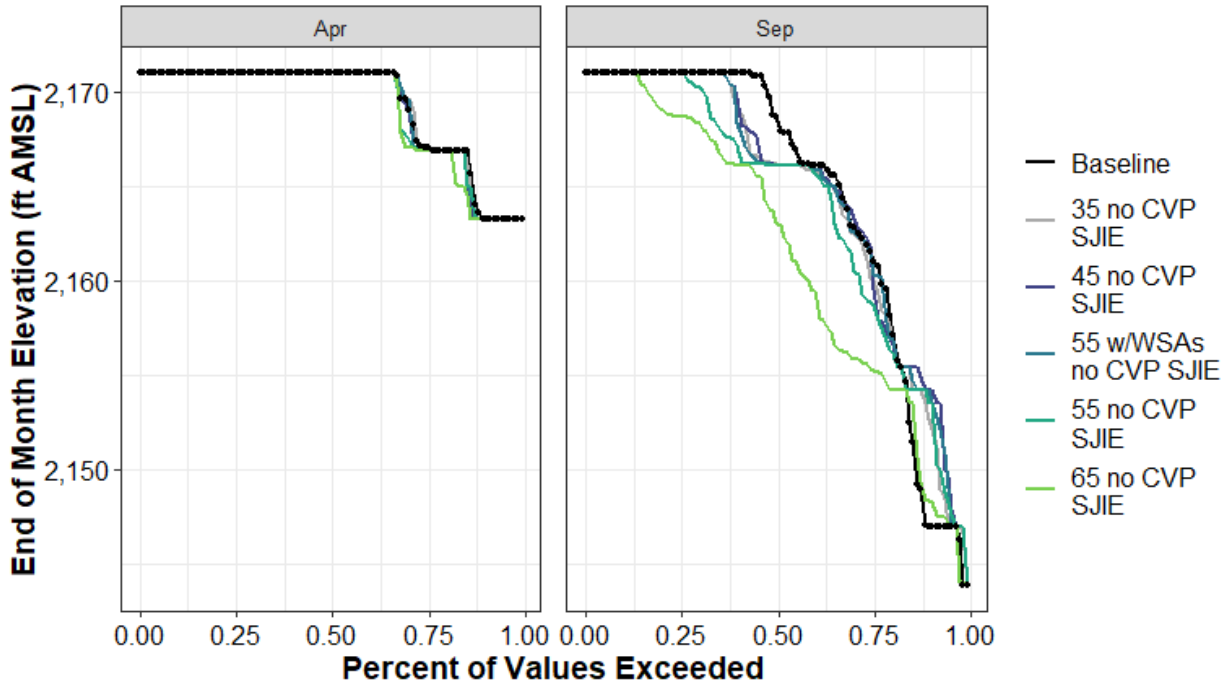

Figure H1a4-138. Rollins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-277. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	46	0	0	0	0	0
10%	48	4	5	5	5	1
25%	58	-1	0	0	-2	-4
50%	64	-2	-2	-2	-2	-4
75%	66	0	0	0	0	-2
90%	66	0	0	0	0	0
100%	66	0	0	0	0	0
Mean	61	0	0	0	-1	-2

Table H1a4-278. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2,144	0	0	0	0	0
10%	2,147	6	7	7	7	1
25%	2,161	-1	-1	0	-2	-6
50%	2,169	-3	-3	-3	-3	-6
75%	2,171	0	0	0	0	-2
90%	2,171	0	0	0	0	0
100%	2,171	0	0	0	0	0
Mean	2,165	0	0	0	-1	-3

Table H1a4-279. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	60	0	0	0	0	0
10%	60	0	0	0	0	0
25%	63	0	0	0	0	0
50%	66	0	0	0	0	0
75%	66	0	0	0	0	0
90%	66	0	0	0	0	0
100%	66	0	0	0	0	0
Mean	65	0	0	0	0	0

Table H1a4-280. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2,163	0	0	0	0	0
10%	2,163	0	0	0	0	0
25%	2,167	0	0	0	0	0
50%	2,171	0	0	0	0	0
75%	2,171	0	0	0	0	0
90%	2,171	0	0	0	0	0
100%	2,171	0	0	0	0	0
Mean	2,169	0	0	0	0	0

H1a4.5.41 Salt Springs (Mokelumne River Watershed)

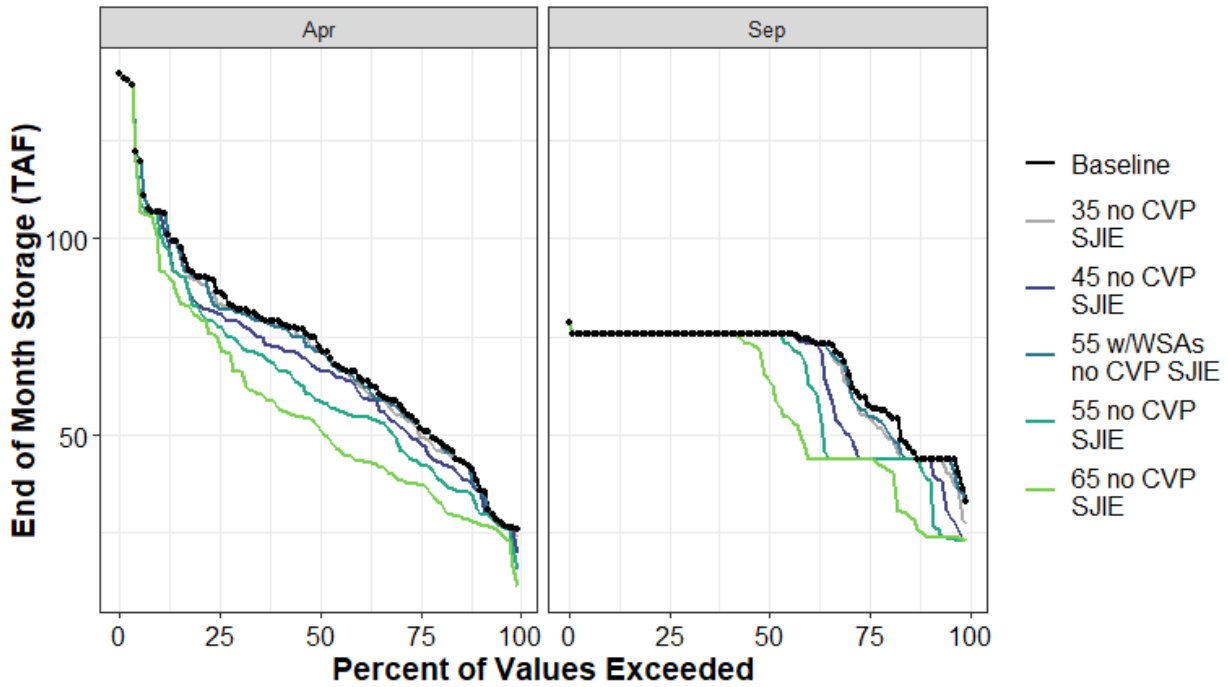

Figure H1a4-139. Salt Springs End of April and End of September Storage (TAF) Percent Exceedance Plot

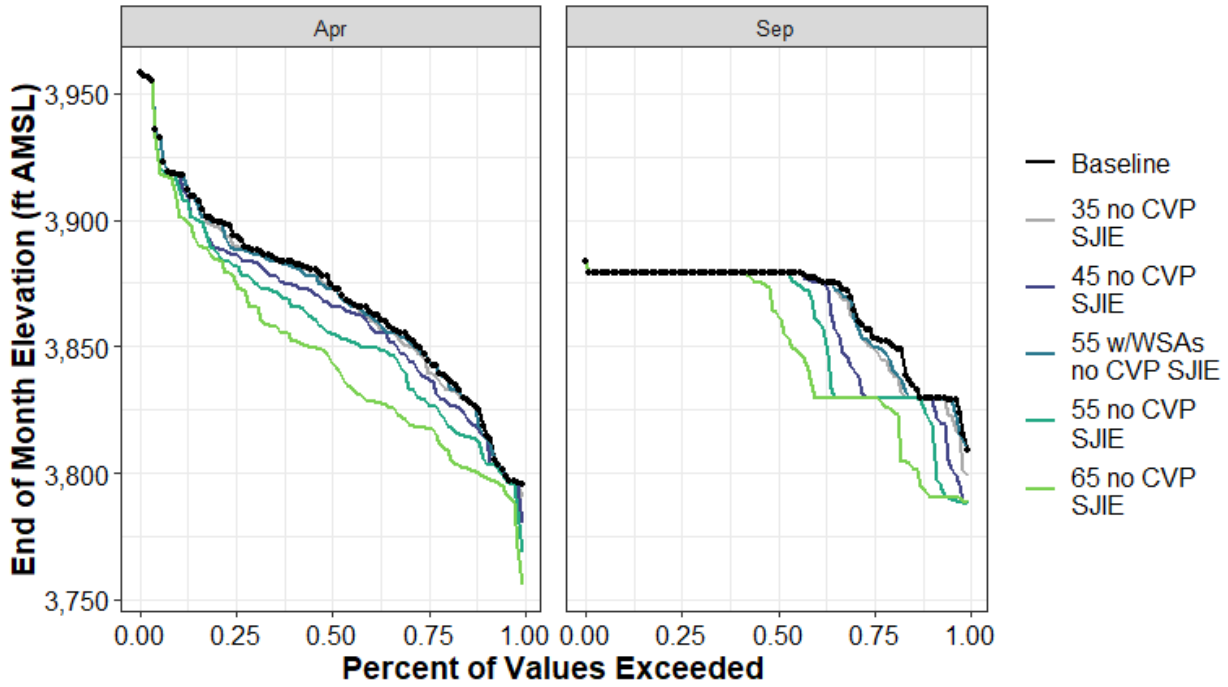

Figure H1a4-140. Salt Springs Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-281. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	33	-5	-10	0	-10	-10
10%	44	0	0	0	-5	-20
25%	59	-4	-15	-3	-15	-15
50%	76	0	0	0	0	-11
75%	76	0	0	0	0	0
90%	76	0	0	0	0	0
100%	79	0	0	0	0	0
Mean	67	-1	-4	-1	-6	-10

Table H1a4-282. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,809	-10	-21	0	-21	-21
10%	3,830	0	0	0	-9	-38
25%	3,855	-5	-26	-4	-26	-26
50%	3,879	0	0	0	0	-15
75%	3,879	0	0	0	0	0
90%	3,879	0	0	0	0	0
100%	3,883	0	0	0	0	0
Mean	3,867	-2	-7	-1	-11	-17

Table H1a4-283. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	26	-2	-6	0	-11	-15
10%	38	-2	-2	-2	-7	-10
25%	53	-2	-4	0	-10	-15
50%	72	-1	-6	-1	-14	-21
75%	86	-3	-5	-4	-9	-13
90%	107	0	0	0	-5	-13
100%	142	0	0	0	0	0
Mean	72	-1	-4	-1	-8	-15

Table H1a4-284. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,796	-5	-15	0	-27	-40
10%	3,818	-4	-4	-4	-13	-19
25%	3,846	-4	-8	0	-18	-28
50%	3,874	-1	-8	-2	-19	-30
75%	3,894	-4	-8	-6	-12	-18
90%	3,918	0	0	0	-5	-15
100%	3,958	0	0	0	0	0
Mean	3,871	-2	-6	-1	-13	-23

H1a4.5.42Scotts Flat Reservoir (Yuba RiverWatershed)

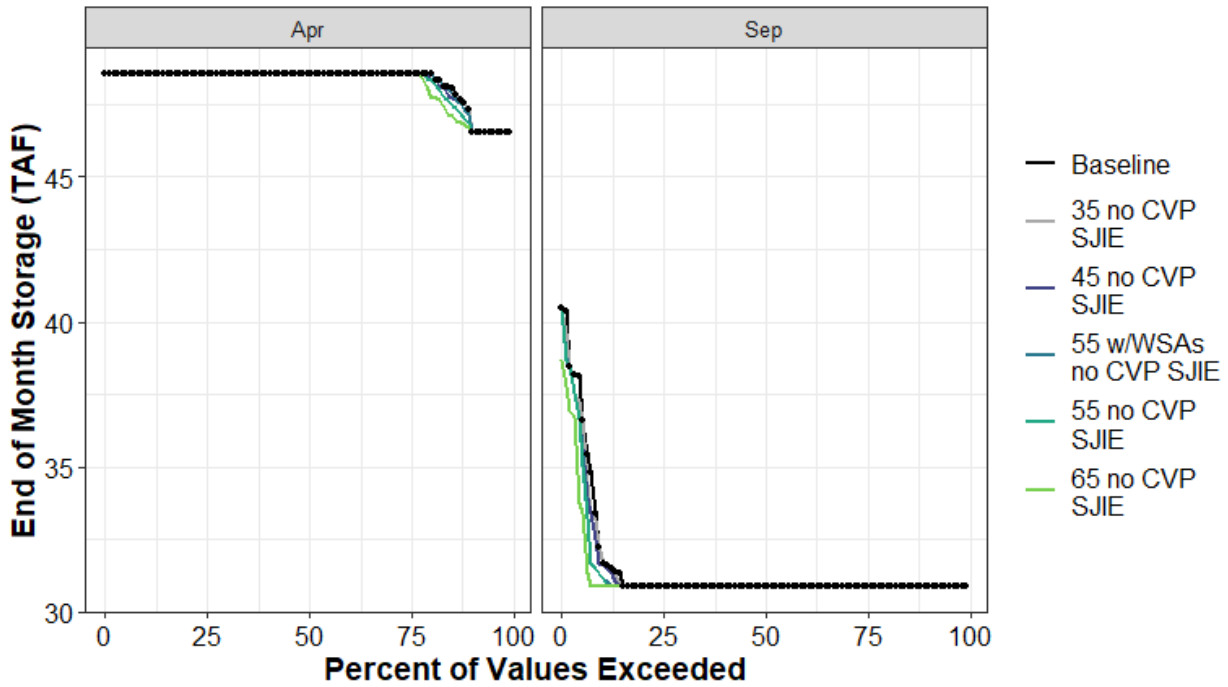

Figure H1a4-141. Scotts Flat Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

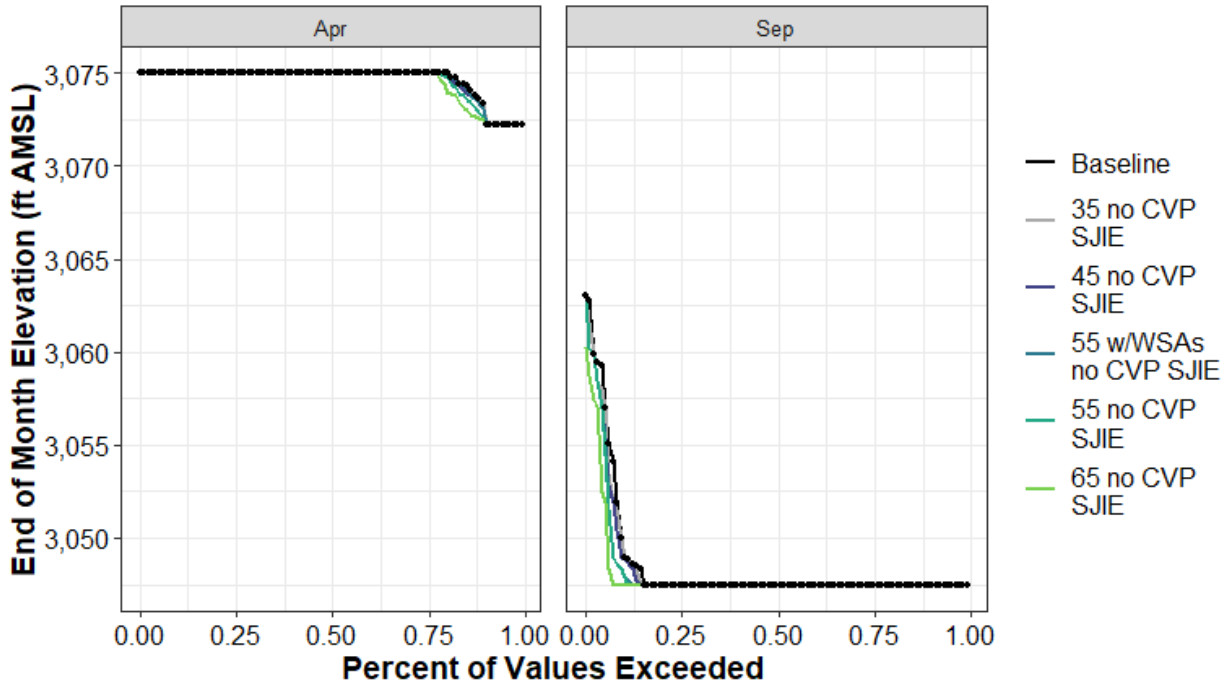

Figure H1a4-142. Scotts Flat Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-285. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	31	0	0	0	0	0
10%	31	0	0	0	0	0
25%	31	0	0	0	0	0
50%	31	0	0	0	0	0
75%	31	0	0	0	0	0
90%	32	0	0	-1	-1	-1
100%	40	0	0	0	0	-2
Mean	32	0	0	0	0	0

Table H1a4-286. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,047	0	0	0	0	0
10%	3,047	0	0	0	0	0
25%	3,047	0	0	0	0	0
50%	3,047	0	0	0	0	0
75%	3,047	0	0	0	0	0
90%	3,049	0	0	-1	-1	-2
100%	3,063	0	0	0	0	-3
Mean	3,048	0	0	0	0	-1

Table H1a4-287. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	47	0	0	0	0	0
10%	47	0	0	0	0	0
25%	49	0	0	0	0	0
50%	49	0	0	0	0	0
75%	49	0	0	0	0	0
90%	49	0	0	0	0	0
100%	49	0	0	0	0	0
Mean	48	0	0	0	0	0

Table H1a4-288. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,072	0	0	0	0	0
10%	3,073	0	0	0	-1	-1
25%	3,075	0	0	0	0	0
50%	3,075	0	0	0	0	0
75%	3,075	0	0	0	0	0
90%	3,075	0	0	0	0	0
100%	3,075	0	0	0	0	0
Mean	3,075	0	0	0	0	0

H1a4.5.43 Shasta Lake (Sacramento River Watershed)

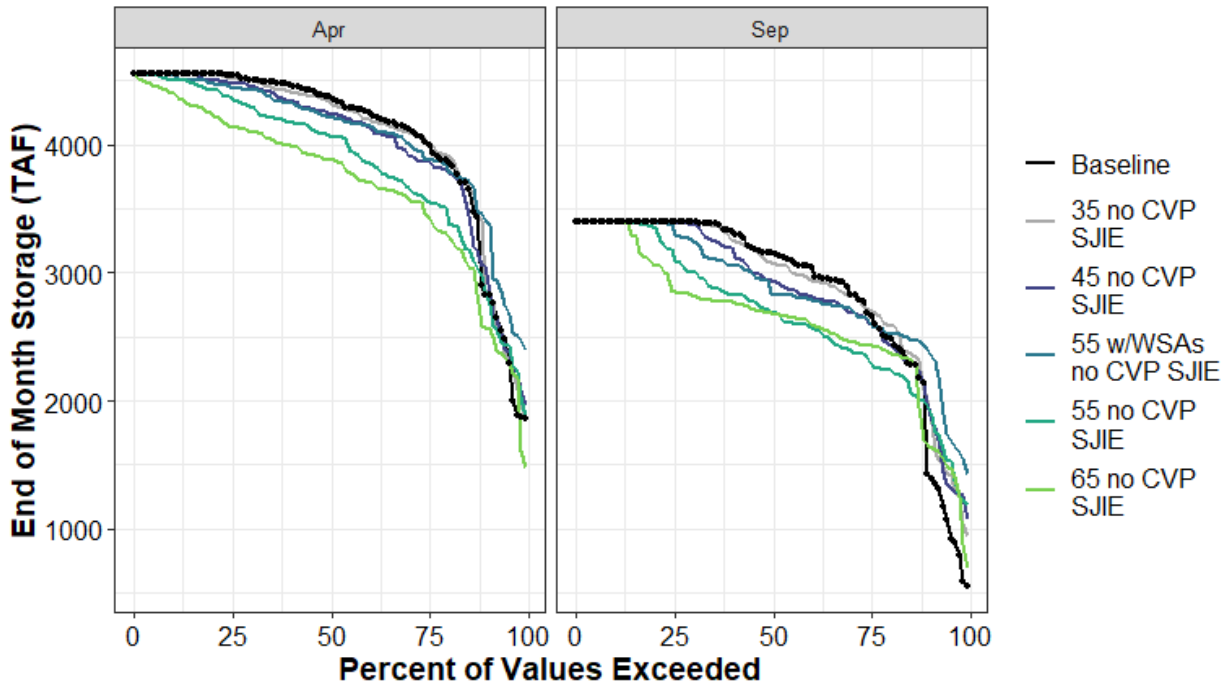

Figure H1a4-143. Shasta Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

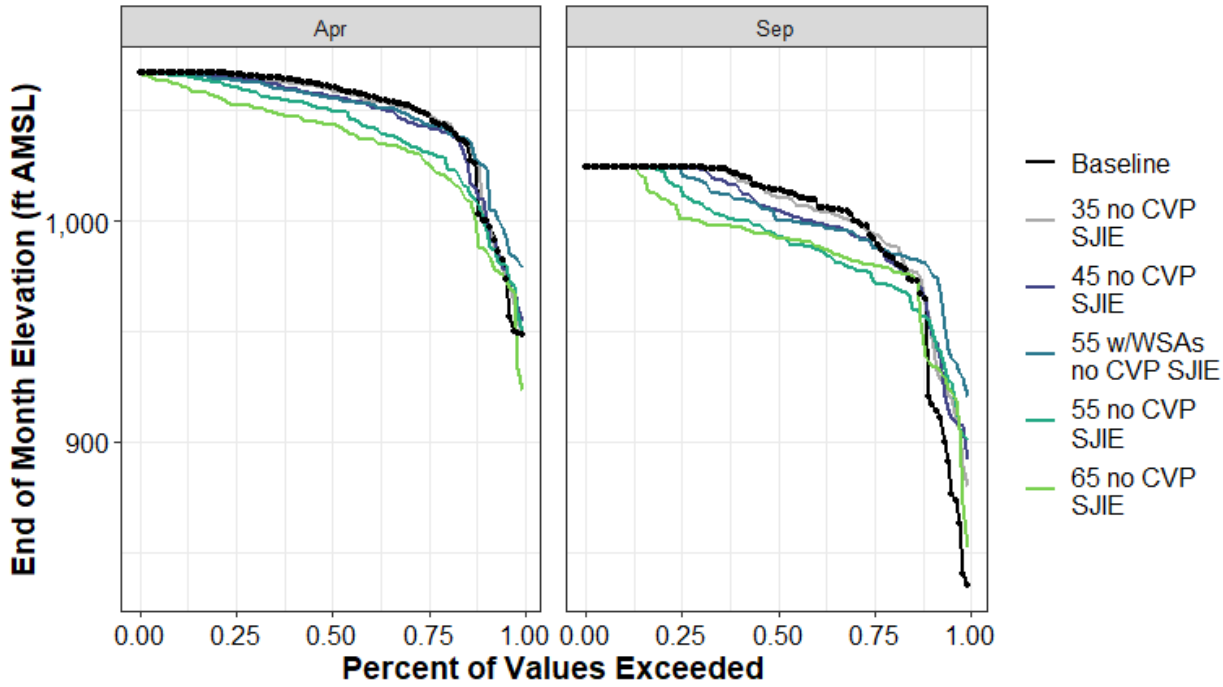

Figure H1a4-144. Shasta Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-289. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	550	400	525	876	635	144
10%	1,420	556	527	973	528	233
25%	2,679	35	-69	-61	-362	-247
50%	3,158	-81	-218	-318	-466	-476
75%	3,400	-1	-13	-64	-264	-551
90%	3,400	0	0	0	0	-1
100%	3,400	0	0	0	0	0
Mean	2,871	37	-30	3	-208	-248

Table H1a4-290. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	835	45	57	85	66	17
10%	920	36	34	59	34	16
25%	993	2	-3	-3	-18	-12
50%	1,014	-4	-10	-14	-21	-22
75%	1,024	0	-1	-3	-11	-24
90%	1,024	0	0	0	0	0
100%	1,024	0	0	0	0	0
Mean	997	4	1	3	-8	-10

Table H1a4-291. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,862	-19	101	533	8	-385
10%	2,827	47	185	577	2	-254
25%	4,015	9	-146	-131	-450	-570
50%	4,372	-38	-135	-158	-298	-484
75%	4,543	-26	-61	-94	-179	-409
90%	4,552	0	0	-12	-45	-155
100%	4,552	0	0	0	0	0
Mean	4,084	-1	-65	-13	-227	-385

Table H1a4-292. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	949	-1	6	30	0	-25
10%	1,000	2	8	25	0	-13
25%	1,048	0	-5	-5	-17	-22
50%	1,061	-1	-5	-5	-10	-17
75%	1,067	-1	-2	-3	-6	-14
90%	1,067	0	0	0	-2	-5
100%	1,067	0	0	0	0	0
Mean	1,049	0	-2	0	-8	-14

H1a4.5.44Silver Lake (American River Watershed)

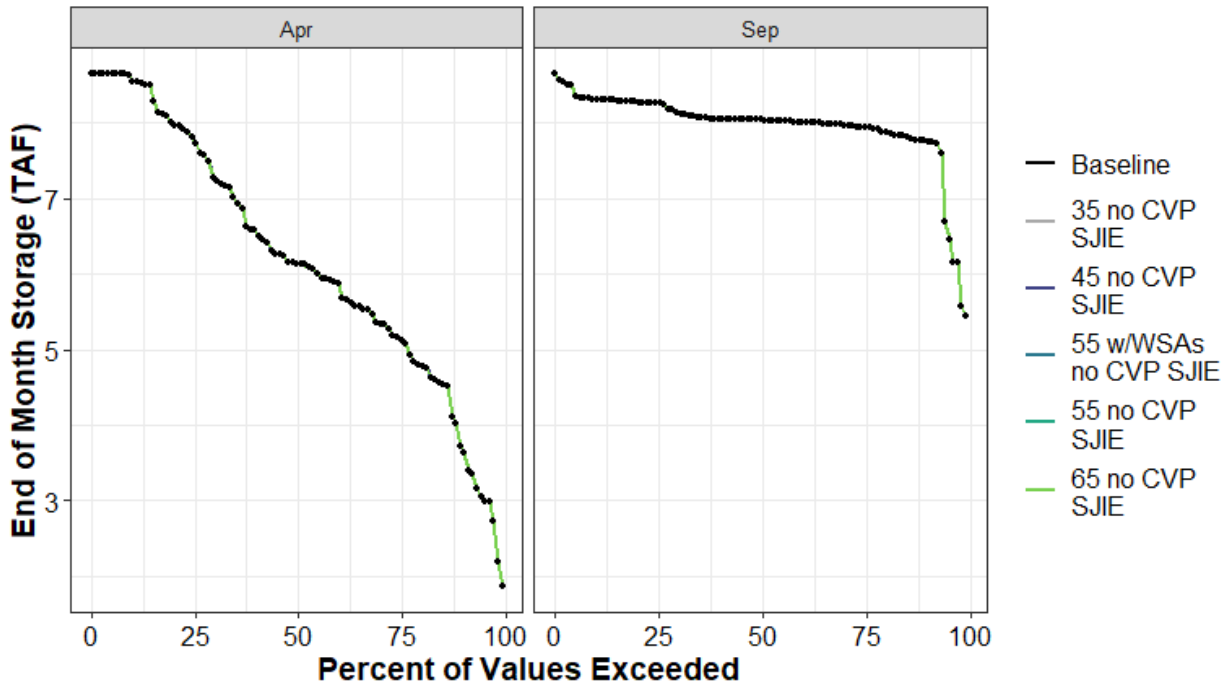

Figure H1a4-145. Silver Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

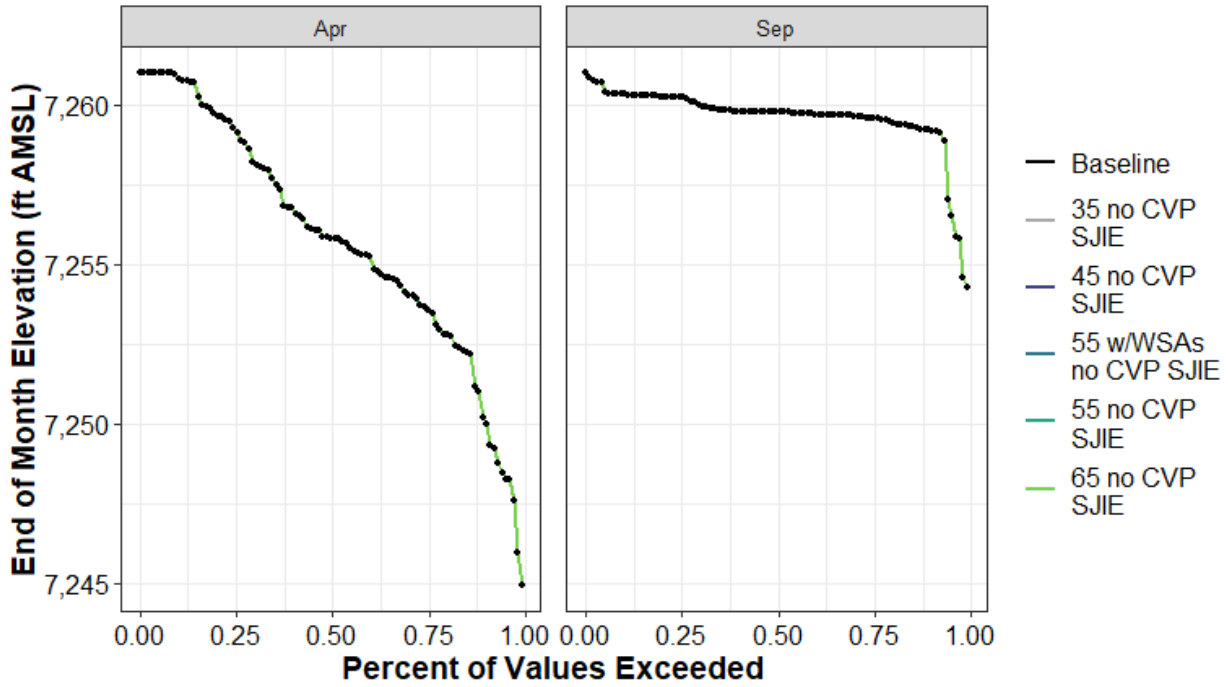

Figure H1a4-146. Silver Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-293. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5	0	0	0	0	0
10%	8	0	0	0	0	0
25%	8	0	0	0	0	0
50%	8	0	0	0	0	0
75%	8	0	0	0	0	0
90%	8	0	0	0	0	0
100%	9	0	0	0	0	0
Mean	8	0	0	0	0	0

Table H1a4-294. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7,254	0	0	0	0	0
10%	7,259	0	0	0	0	0
25%	7,260	0	0	0	0	0
50%	7,260	0	0	0	0	0
75%	7,260	0	0	0	0	0
90%	7,260	0	0	0	0	0
100%	7,261	0	0	0	0	0
Mean	7,260	0	0	0	0	0

Table H1a4-295. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2	0	0	0	0	0
10%	4	0	0	0	0	0
25%	5	0	0	0	0	0
50%	6	0	0	0	0	0
75%	8	0	0	0	0	0
90%	9	0	0	0	0	0
100%	9	0	0	0	0	0
Mean	6	0	0	0	0	0

Table H1a4-296. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7,245	0	0	0	0	0
10%	7,250	0	0	0	0	0
25%	7,254	0	0	0	0	0
50%	7,256	0	0	0	0	0
75%	7,259	0	0	0	0	0
90%	7,261	0	0	0	0	0
100%	7,261	0	0	0	0	0
Mean	7,256	0	0	0	0	0

H1a4.5.45 Sly Creek Reservoir (Feather River Watershed)

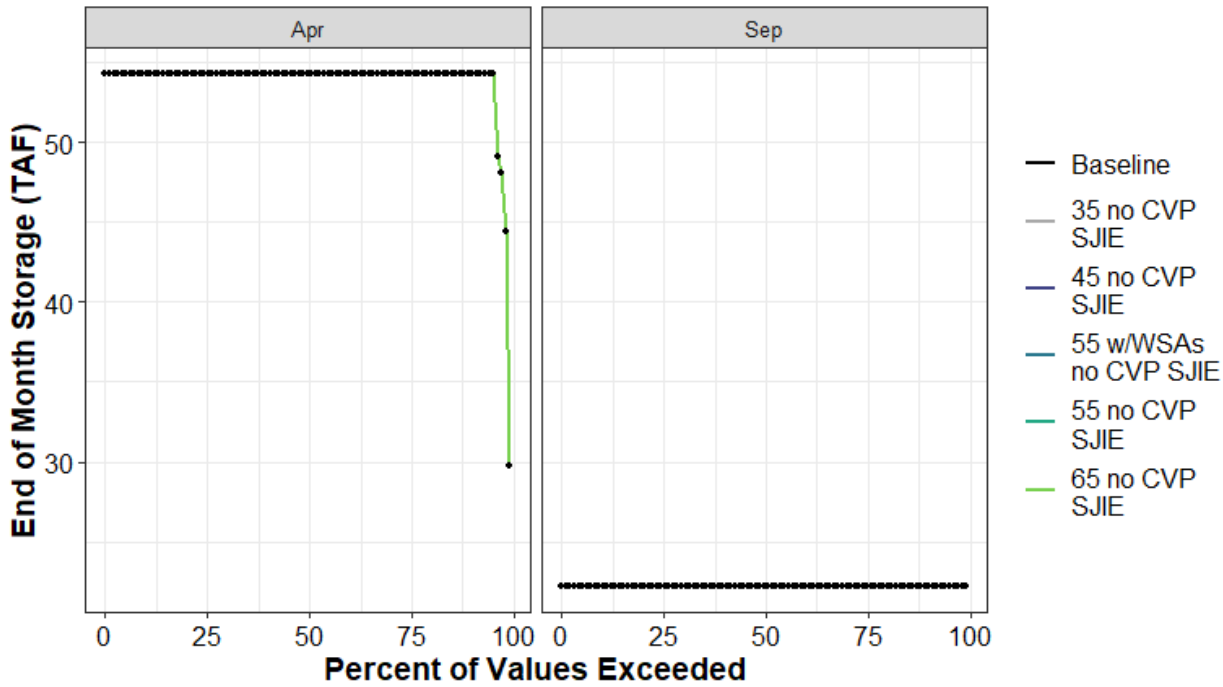

Figure H1a4-147. Sly Creek Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

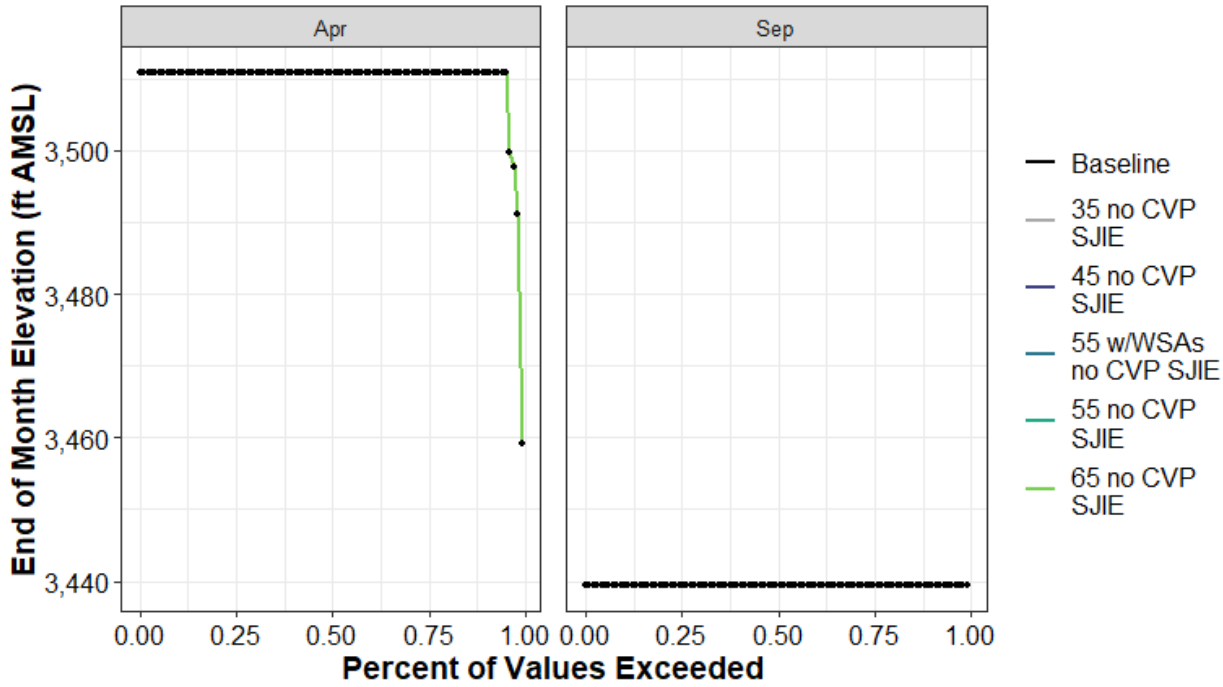

Figure H1a4-148. Sly Creek Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-297. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	22	0	0	0	0	0
10%	22	0	0	0	0	0
25%	22	0	0	0	0	0
50%	22	0	0	0	0	0
75%	22	0	0	0	0	0
90%	22	0	0	0	0	0
100%	22	0	0	0	0	0
Mean	22	0	0	0	0	0

Table H1a4-298. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,439	0	0	0	0	0
10%	3,439	0	0	0	0	0
25%	3,439	0	0	0	0	0
50%	3,439	0	0	0	0	0
75%	3,439	0	0	0	0	0
90%	3,439	0	0	0	0	0
100%	3,439	0	0	0	0	0
Mean	3,439	0	0	0	0	0

Table H1a4-299. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	30	0	0	0	0	0
10%	54	0	0	0	0	0
25%	54	0	0	0	0	0
50%	54	0	0	0	0	0
75%	54	0	0	0	0	0
90%	54	0	0	0	0	0
100%	54	0	0	0	0	0
Mean	54	0	0	0	0	0

Table H1a4-300. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,459	0	0	0	0	0
10%	3,511	0	0	0	0	0
25%	3,511	0	0	0	0	0
50%	3,511	0	0	0	0	0
75%	3,511	0	0	0	0	0
90%	3,511	0	0	0	0	0
100%	3,511	0	0	0	0	0
Mean	3,510	0	0	0	0	0

H1a4.5.46Stony Gorge Reservoir (Stony Creek Watershed)

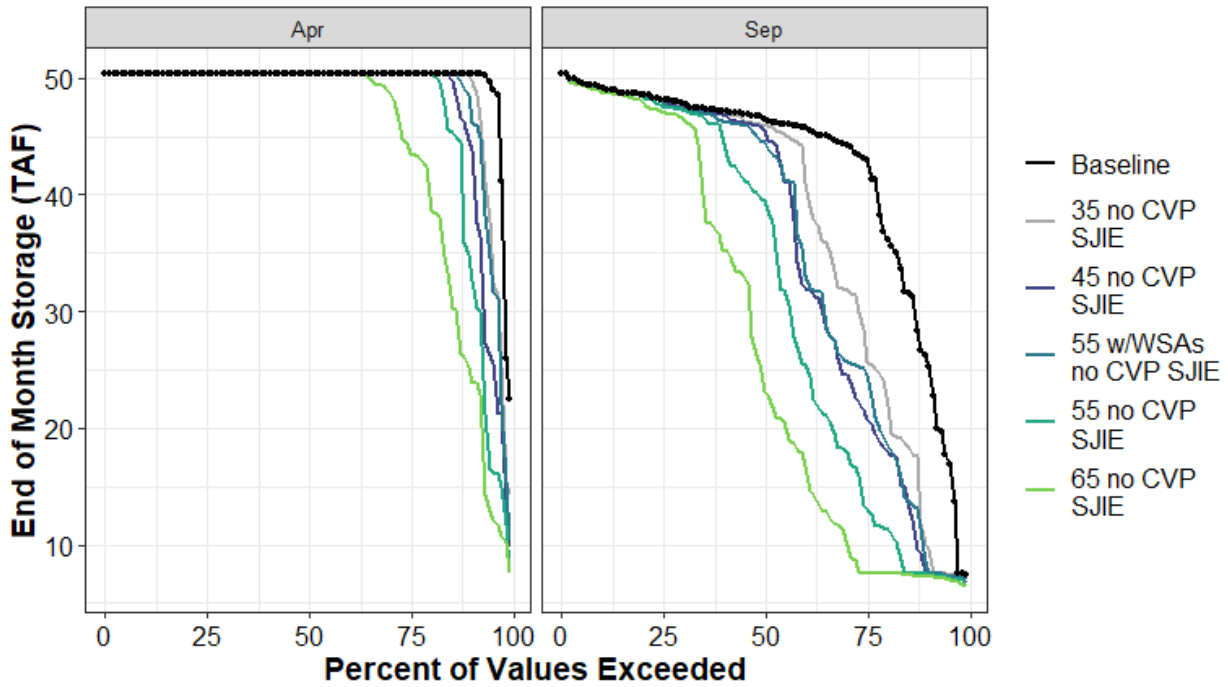

Figure H1a4-149. Stony Gorge Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

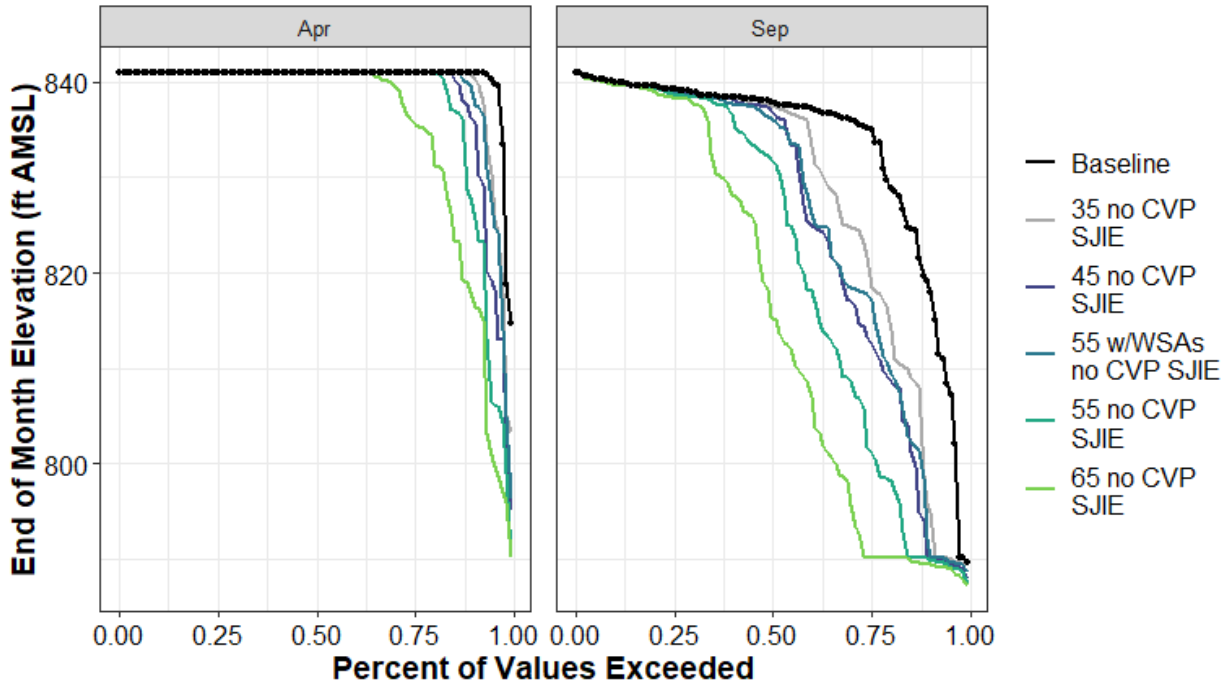

Figure H1a4-150. Stony Gorge Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-301. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7	0	-1	0	-1	-1
10%	26	-16	-19	-18	-19	-19
25%	43	-16	-22	-18	-30	-36
50%	47	-1	-1	-2	-7	-23
75%	48	0	0	0	-1	-1
90%	49	0	0	0	0	0
100%	50	0	0	0	0	0
Mean	42	-5	-7	-7	-10	-15

Table H1a4-302. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	790	0	-2	-1	-2	-3
10%	819	-23	-29	-27	-29	-30
25%	835	-15	-22	-18	-34	-45
50%	838	0	-1	-2	-6	-22
75%	839	0	0	0	0	-1
90%	840	0	0	0	0	0
100%	841	0	0	0	0	0
Mean	833	-5	-8	-7	-12	-18

Table H1a4-303. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	23	-8	-13	-12	-15	-15
10%	50	0	-6	-2	-16	-25
25%	50	0	0	0	0	-6
50%	50	0	0	0	0	0
75%	50	0	0	0	0	0
90%	50	0	0	0	0	0
100%	50	0	0	0	0	0
Mean	50	-1	-2	-1	-3	-5

Table H1a4-304. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	815	-11	-20	-18	-25	-25
10%	841	0	-5	-2	-14	-23
25%	841	0	0	0	0	-5
50%	841	0	0	0	0	0
75%	841	0	0	0	0	0
90%	841	0	0	0	0	0
100%	841	0	0	0	0	0
Mean	840	-1	-2	-1	-3	-5

H1a4.5.47 Stumpy Meadows (American River Watershed)

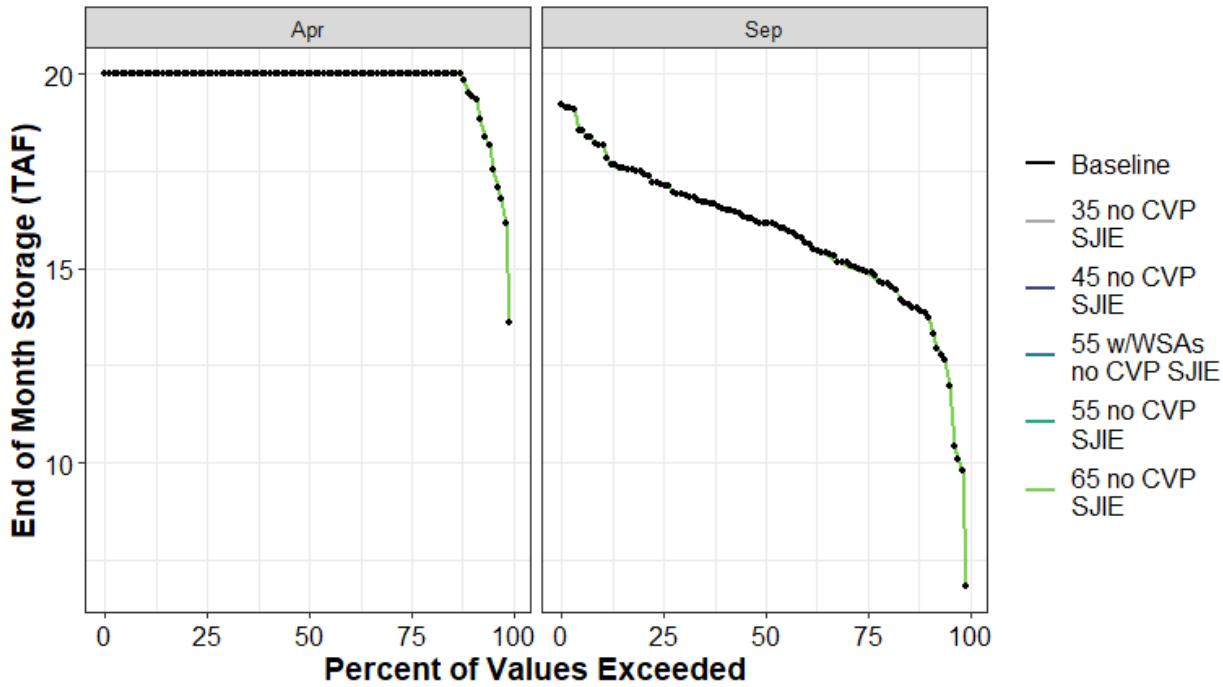

Figure H1a4-151. Stumpy Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-305. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	7	0	0	0	0	0
10%	14	0	0	0	0	0
25%	15	0	0	0	0	0
50%	16	0	0	0	0	0
75%	17	0	0	0	0	0
90%	18	0	0	0	0	0
100%	19	0	0	0	0	0
Mean	16	0	0	0	0	0

Table H1a4-306. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	14	0	0	0	0	0
10%	19	0	0	0	0	0
25%	20	0	0	0	0	0
50%	20	0	0	0	0	0
75%	20	0	0	0	0	0
90%	20	0	0	0	0	0
100%	20	0	0	0	0	0
Mean	20	0	0	0	0	0

H1a4.5.48SWP San Luis Reservoir (South of Delta Offstream)

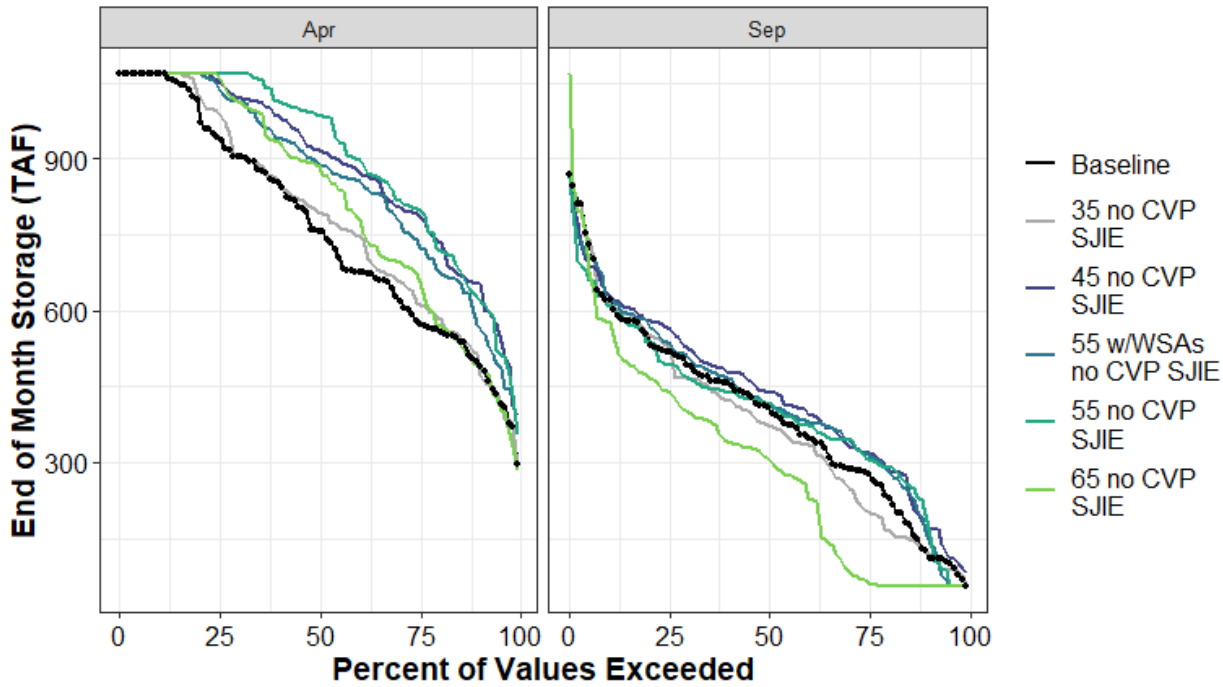

Figure H1a4-152. SWP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a4-307. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	55	1	25	0	0	0
10%	123	-2	49	37	67	-67
25%	279	-75	40	38	30	-214
50%	410	-36	29	1	4	-102
75%	518	9	47	18	-26	-78
90%	622	-9	7	1	-12	-44
100%	869	-4	-3	-7	-7	197
Mean	397	-20	34	20	7	-99

Table H1a4-308. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	297	-9	95	64	58	-14
10%	496	12	158	74	129	-3
25%	575	38	214	157	225	90
50%	757	36	160	129	228	127
75%	940	49	112	97	127	120
90%	1,067	0	0	0	0	0
100%	1,067	0	0	0	0	0
Mean	763	21	123	98	140	57

H1a4.5.49Total San Luis Reservoir (South of Delta Offstream)

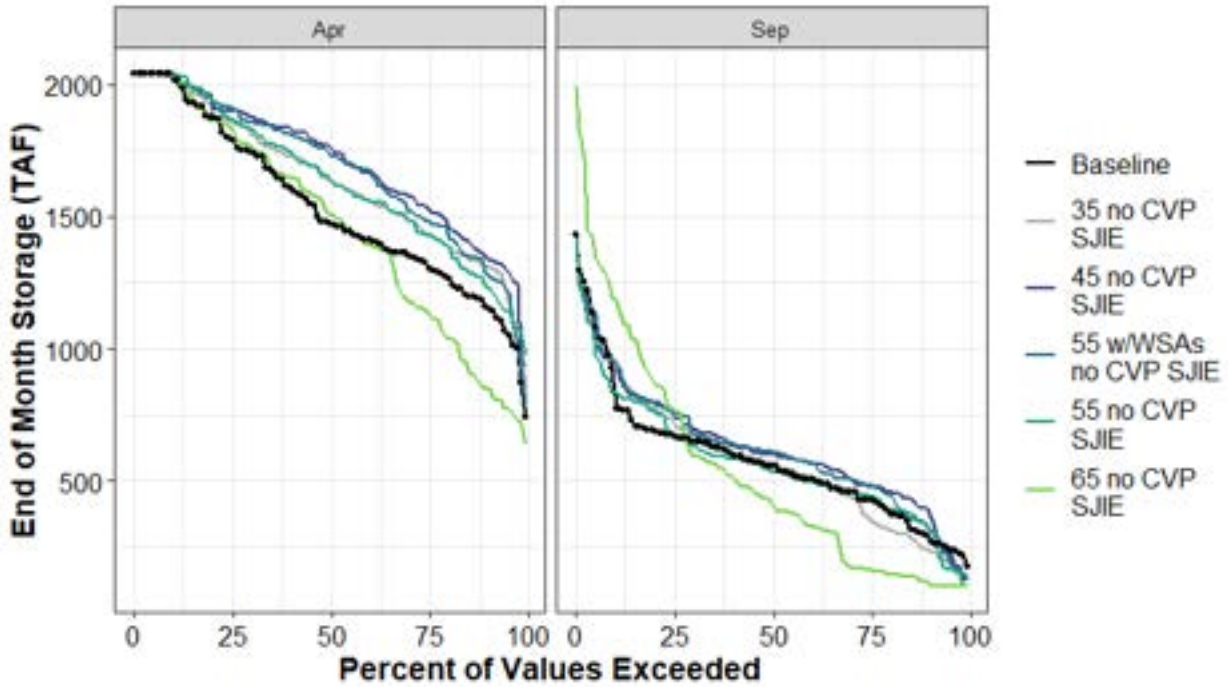

Figure H1a4-153. Total San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

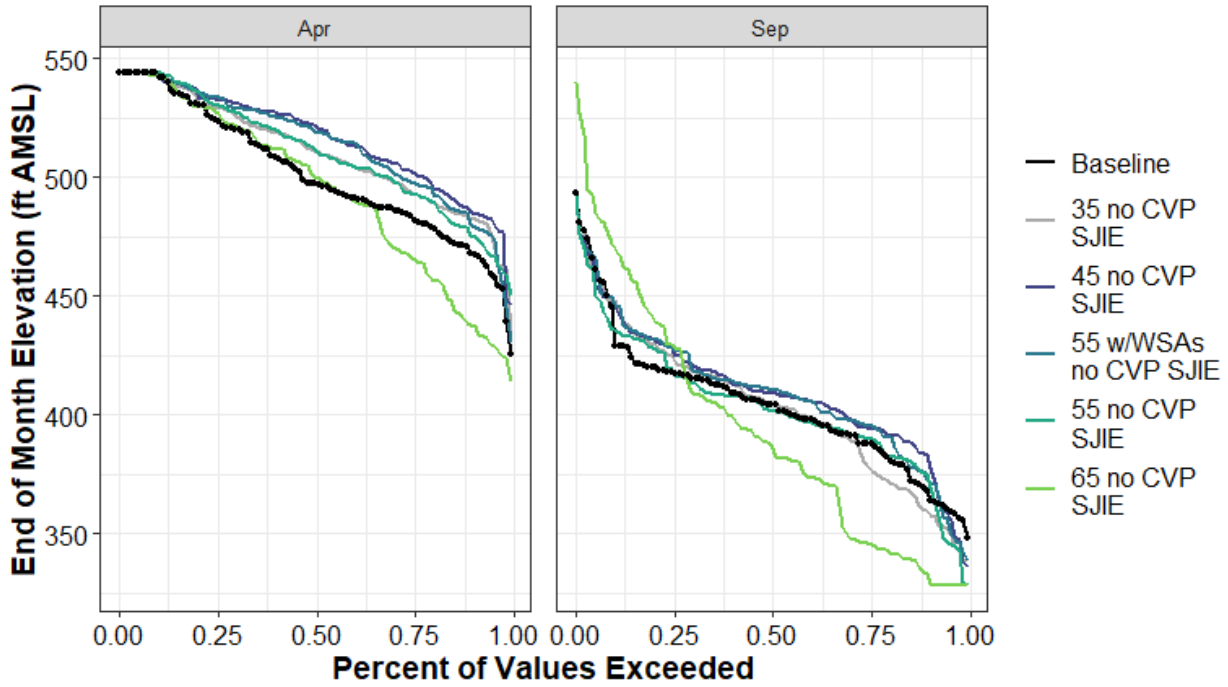

Figure H1a4-154. Total San Luis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-309. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	176	-40	-48	-39	-76	-76
10%	285	-46	101	36	43	-169
25%	428	-72	51	57	17	-263
50%	557	6	41	53	-20	-135
75%	671	53	78	88	2	99
90%	804	149	132	135	29	376
100%	1,430	-4	-3	-7	-7	559
Mean	575	3	50	45	-4	-39

Table H1a4-310. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Abs**olute Difference by Scenario for Total San Luis Reservoir**

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	348	-10	-12	-10	-20	-20
10%	367	-8	15	6	7	-34
25%	388	-10	7	7	2	-42
50%	404	1	5	6	-2	-17
75%	418	6	9	10	0	11
90%	432	16	14	14	3	38
100%	493	0	0	-1	-1	47
Mean	404	0	6	5	-1	-11

Table H1a4-311. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	740	74	190	44	234	-105
10%	1,156	157	191	131	81	-305
25%	1,313	120	221	170	117	-177
50%	1,477	164	291	261	173	36
75%	1,793	65	107	118	74	40
90%	2,022	0	17	17	17	5
100%	2,039	0	0	0	0	0
Mean	1,536	104	169	145	101	-67

Table H1a4-312. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	426	8	20	5	25	-12
10%	468	15	18	12	8	-31
25%	483	11	20	15	11	-17
50%	497	14	25	22	15	3
75%	524	5	9	10	6	3
90%	543	0	1	1	1	0
100%	544	0	0	0	0	0
Mean	502	9	15	13	9	-7

H1a4.5.50Trinity Reservoir (Trinity River Watershed)

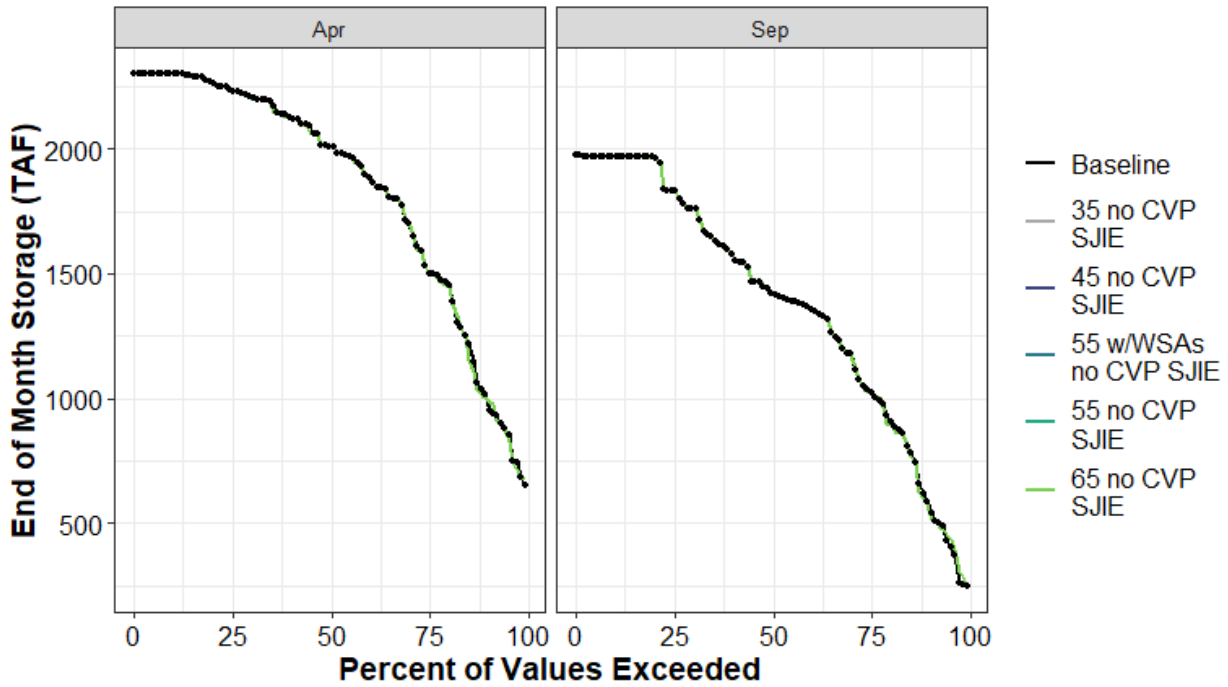

Figure H1a4-155. Trinity Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

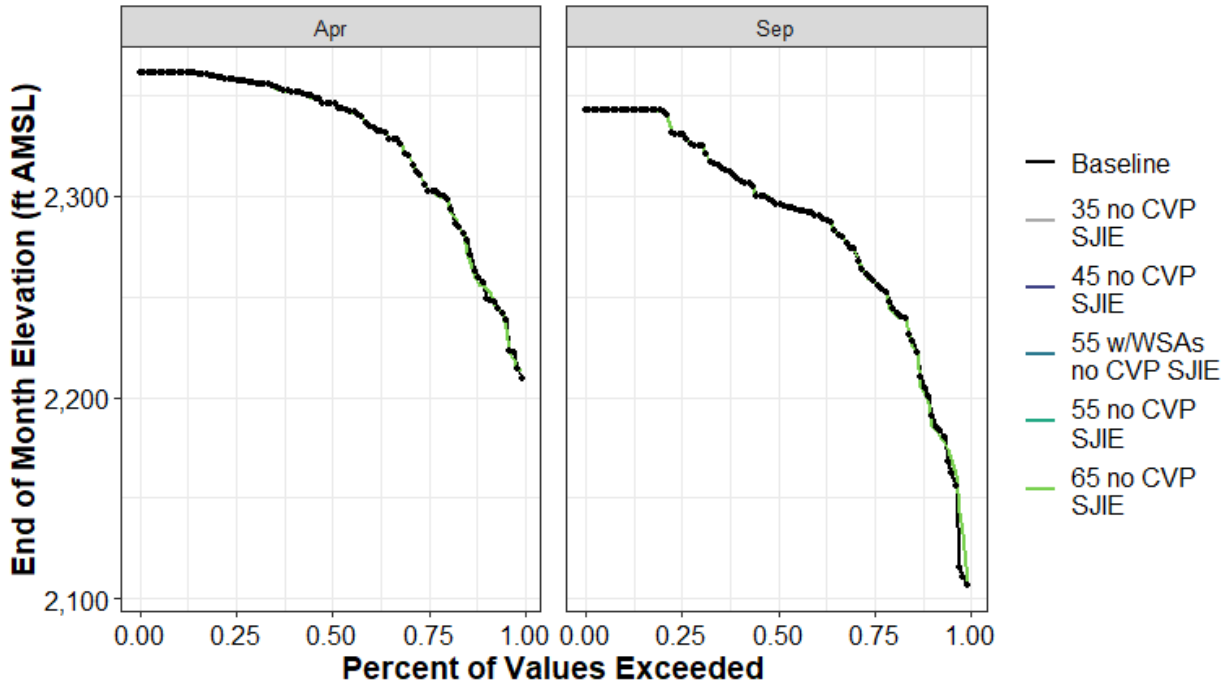

Figure H1a4-156. Trinity Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-313. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	246	2	2	2	2	2
10%	578	-17	-17	-17	-17	-17
25%	1,030	0	0	0	0	0
50%	1,420	3	3	3	3	4
75%	1,831	0	0	0	0	0
90%	1,972	0	0	0	0	0
100%	1,972	0	0	0	0	1
Mean	1,379	-1	-1	-1	-1	-1

Table H1a4-314. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2,107	1	1	1	1	1
10%	2,198	-3	-3	-3	-3	-3
25%	2,258	0	0	0	0	0
50%	2,296	0	0	0	0	0
75%	2,331	0	0	0	0	0
90%	2,343	0	0	0	0	0
100%	2,343	0	0	0	0	0
Mean	2,285	0	0	0	0	0

Table H1a4-315. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	650	29	29	29	29	29
10%	1,004	-6	-6	-6	-6	-6
25%	1,516	0	0	0	0	0
50%	2,009	0	0	0	0	0
75%	2,235	0	0	0	0	0
90%	2,300	0	0	0	0	0
100%	2,300	0	0	0	0	0
Mean	1,843	-3	-3	-3	-3	-3

Table H1a4-316. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2,209	4	4	4	4	4
10%	2,255	-1	-1	-1	-1	-1
25%	2,304	0	0	0	0	0
50%	2,345	0	0	0	0	0
75%	2,358	0	0	0	0	0
90%	2,361	0	0	0	0	0
100%	2,361	0	0	0	0	0
Mean	2,327	0	0	0	0	0

H1a4.5.51 Union Valley Reservoir (American River Watershed)

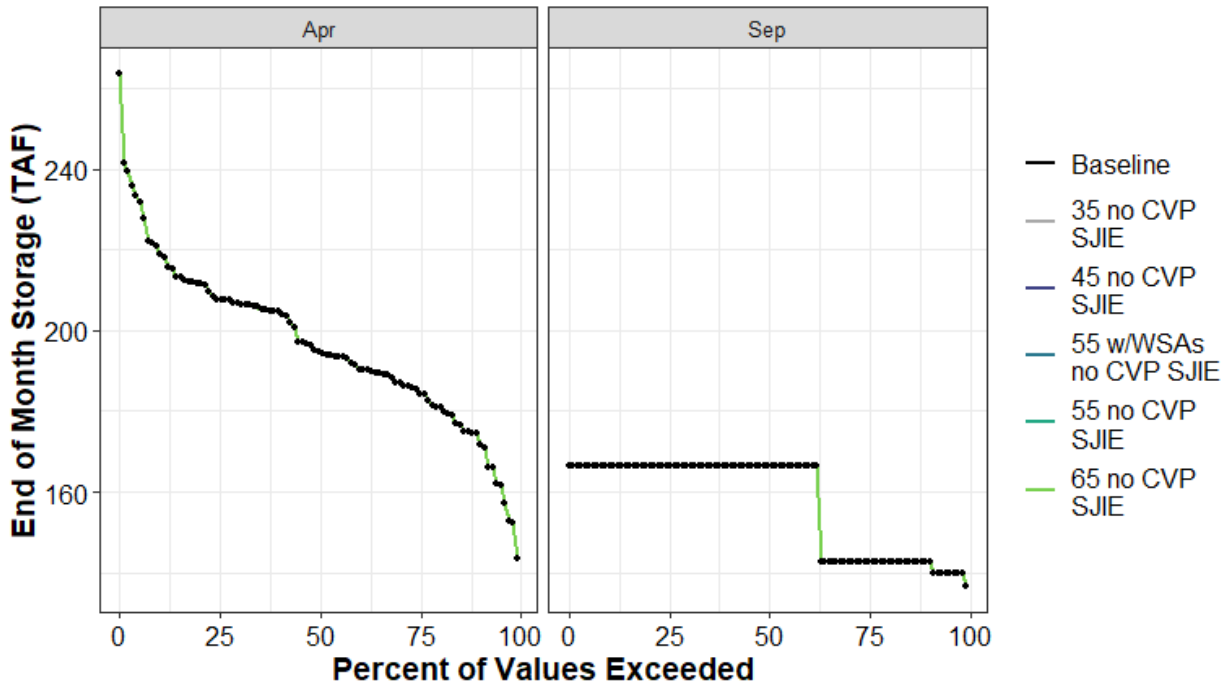

Figure H1a4-157. Union Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

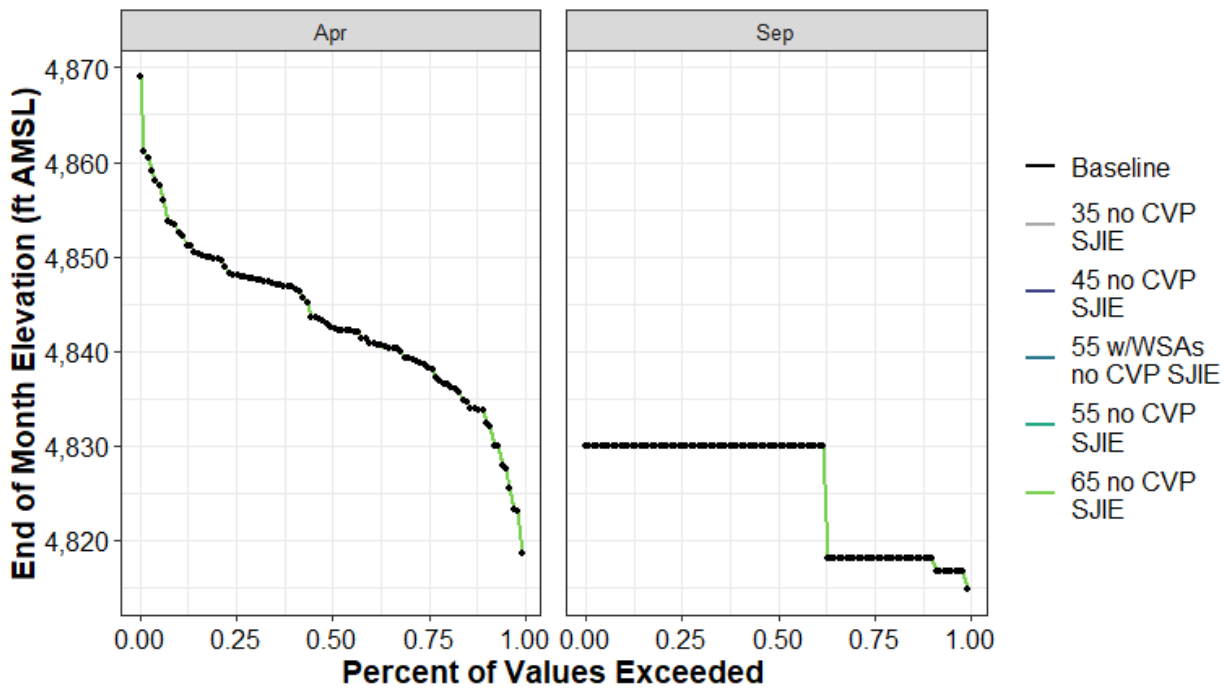

Figure H1a4-158. Union Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-317. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	137	0	0	0	0	0
10%	143	0	0	0	0	0
25%	143	0	0	0	0	0
50%	166	0	0	0	0	0
75%	166	0	0	0	0	0
90%	166	0	0	0	0	0
100%	166	0	0	0	0	0
Mean	157	0	0	0	0	0

Table H1a4-318. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,815	0	0	0	0	0
10%	4,818	0	0	0	0	0
25%	4,818	0	0	0	0	0
50%	4,830	0	0	0	0	0
75%	4,830	0	0	0	0	0
90%	4,830	0	0	0	0	0
100%	4,830	0	0	0	0	0
Mean	4,825	0	0	0	0	0

Table H1a4-319. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	144	0	0	0	0	0
10%	174	0	0	0	0	0
25%	185	0	0	0	0	0
50%	195	0	0	0	0	0
75%	208	0	0	0	0	0
90%	219	0	0	0	0	0
100%	264	0	0	0	0	0
Mean	197	0	0	0	0	0

Table H1a4-320. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,819	0	0	0	0	0
10%	4,833	0	0	0	0	0
25%	4,838	0	0	0	0	0
50%	4,843	0	0	0	0	0
75%	4,848	0	0	0	0	0
90%	4,853	0	0	0	0	0
100%	4,869	0	0	0	0	0
Mean	4,843	0	0	0	0	0

H1a4.5.52 Whiskeytown Reservoir (Clear Creek Watershed)

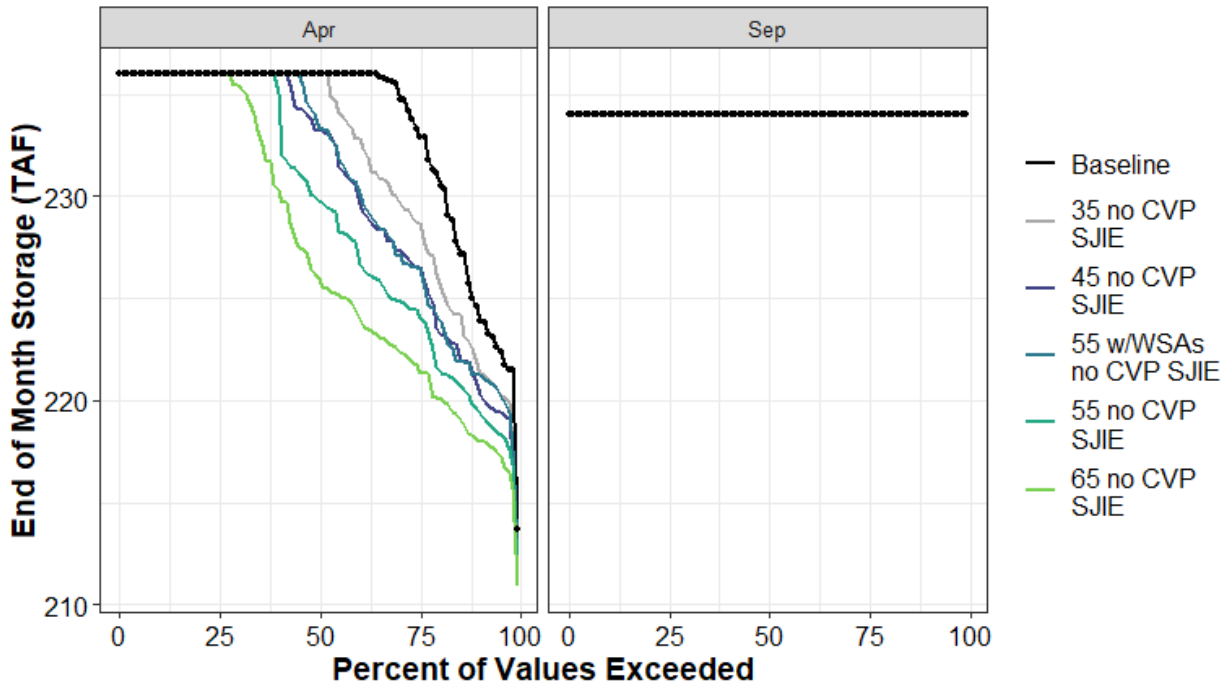

Figure H1a4-159. Whiskeytown Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

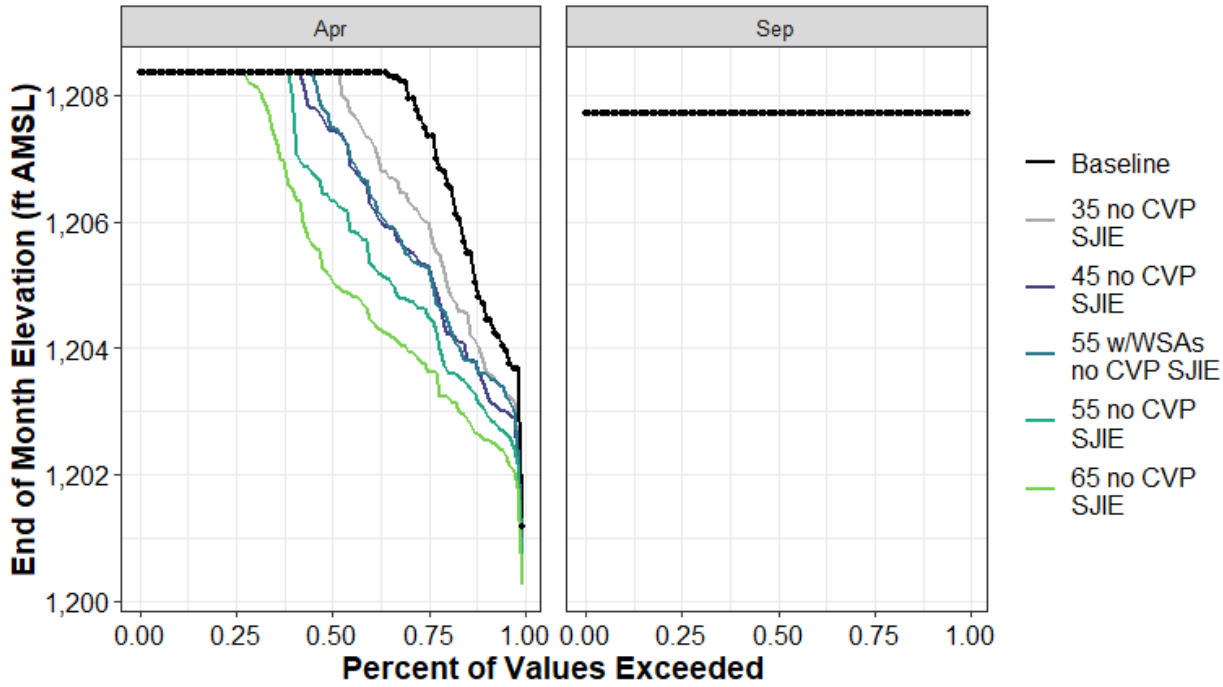

Figure H1a4-160. Whiskeytown Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a4-321. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	234	0	0	0	0	0
10%	234	0	0	0	0	0
25%	234	0	0	0	0	0
50%	234	0	0	0	0	0
75%	234	0	0	0	0	0
90%	234	0	0	0	0	0
100%	234	0	0	0	0	0
Mean	234	0	0	0	0	0

Table H1a4-322. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,208	0	0	0	0	0
10%	1,208	0	0	0	0	0
25%	1,208	0	0	0	0	0
50%	1,208	0	0	0	0	0
75%	1,208	0	0	0	0	0
90%	1,208	0	0	0	0	0
100%	1,208	0	0	0	0	0
Mean	1,208	0	0	0	0	0

Table H1a4-323. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	214	-1	-2	-1	-2	-3
10%	224	-3	-4	-3	-5	-6
25%	233	-4	-7	-7	-9	-12
50%	236	0	-3	-3	-6	-10
75%	236	0	0	0	0	0
90%	236	0	0	0	0	0
100%	236	0	0	0	0	0
Mean	233	-2	-3	-3	-4	-6

Table H1a4-324. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,201	0	-1	0	-1	-1
10%	1,205	-1	-1	-1	-2	-2
25%	1,207	-1	-2	-2	-3	-4
50%	1,208	0	-1	-1	-2	-3
75%	1,208	0	0	0	0	0
90%	1,208	0	0	0	0	0
100%	1,208	0	0	0	0	0
Mean	1,208	-1	-1	-1	-1	-2

H1a4.6 Water Supply

In this section, SacWAM results for water supply are presented by water budget area (WBA), other logical groupings of demand sites within the model domain but outside of the valley floor (upper watershed and foothill, San Francisco Bay Area), CVP contract type, and SWP contract type. The values presented by WBA include total water supplied, including surface and groundwater to the demand locations by water year. Results presented for CVP and SWP deliveries only include surface supplies and are also summarized by water year. All water supply results are presented as simple aggregations of transmission link flows to the set of demand sites identified for each summary. WBAs in the Sacramento Valley include water delivered to SWP and CVP contractors in those WBAs.

Water supplies for many demand site groups remain essentially unchanged among the model scenarios presented here. The WBAs and other demand site groups identified in Table H1a4-325 show constant supplies for all water years in all scenarios summarized, and are not presented further in this appendix.

Table H1a4-325. Water Budget Areas and Demand Site Groups with Constant Supply (TAF) in all Water Years of all Scenarios.

WBA or Demand Site Group	Demand Type	Annual Supply
Water Budget Areas 4 and 6	Urban	21
Water Budget Area 5	Urban	9
Water Budget Area 7	Urban	7
Water Budget Area 8	Urban	8
Water Budget Area 9	Urban	0.3
Water Budget Area 10	Urban	32
Water Budget Area 15S	Urban	13
Water Budget Area 17	Urban	0.8
Water Budget Areas 18 and 19	Urban	0.7
Water Budget Area 22	Urban	2
Water Budget Area 23	Urban	1
Water Budget Area 61N	Urban	26

H1a4.6.1 Water Budget Area 2 (Agricultural)

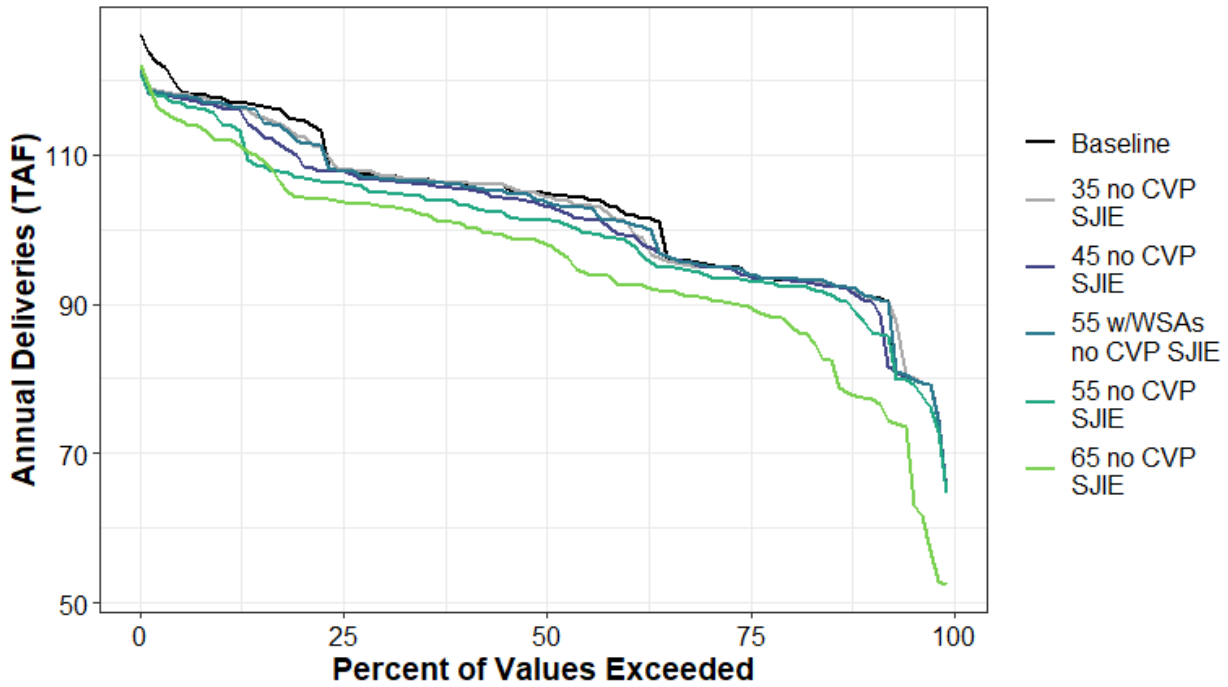

Figure H1a4-161. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-326. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	126	122	122	121	121	122
10%	118	117	116	117	114	112
20%	115	112	109	112	107	104
30%	107	107	107	107	105	103
40%	106	106	105	106	103	101
50%	105	104	103	104	101	98
60%	102	101	99	101	99	93
70%	95	95	95	95	94	91
80%	93	93	93	93	92	88
90%	91	91	91	91	87	78
100%	65	65	65	65	65	52
Mean	103	102	101	102	100	95

Table H1a4-327. Total Water Supplied to Water Budget Area 2 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	111	106	103	107	96	85
D	105	106	105	104	104	101
BN	105	105	104	105	102	96
AN	100	101	100	100	100	97
W	97	97	97	97	97	96
All	103	102	101	102	100	95

H1a4.6.2 Water Budget Area 2 (Urban)

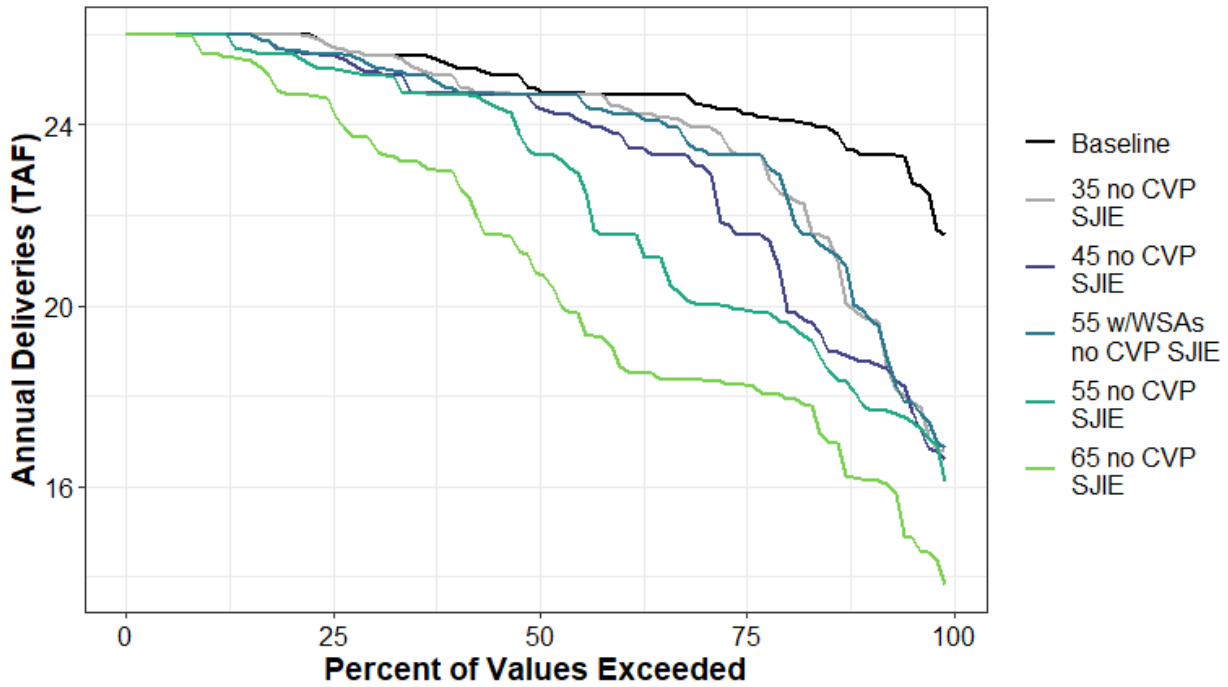

Figure H1a4-162. Total Water Supplied to Water Budget Area 2 (Urban) Annual Percent Exceedance Plot.

Table H1a4-328. Total Water Supplied to Water Budget Area 2 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	26	26	26	26	26	26
10%	26	26	26	26	26	25.6
20%	26	26	25.7	25.7	25.6	24.7
30%	25.5	25.5	25.2	25.3	25.1	23.6
40%	25.3	25.1	24.7	24.8	24.7	22.9
50%	24.8	24.7	24.4	24.7	23.3	20.7
60%	24.7	24.4	23.8	24.2	21.6	18.7
70%	24.5	23.9	23.1	23.5	20	18.4
80%	24.1	22.5	20.4	22.7	19.7	18
90%	23.3	19.7	18.8	19.9	17.8	16.2
100%	21.6	16.8	16.6	16.8	16.1	13.8
Mean	24.9	23.9	23.3	23.8	22.5	20.9

Table H1a4-329. Total Water Supplied to Water Budget Area 2 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	24.3	19.5	18.9	19.6	18.8	16.9
D	24.8	24.1	22.7	24	20.2	18.2
BN	24.4	24.3	23.7	24.1	22.6	19.8
AN	25.5	25.4	25.1	25.2	25.1	23.5
W	25.3	25.3	25.2	25.2	25.1	24.7
All	24.9	23.9	23.3	23.8	22.5	20.9

H1a4.6.3 Water Budget Area 3 (Agricultural)

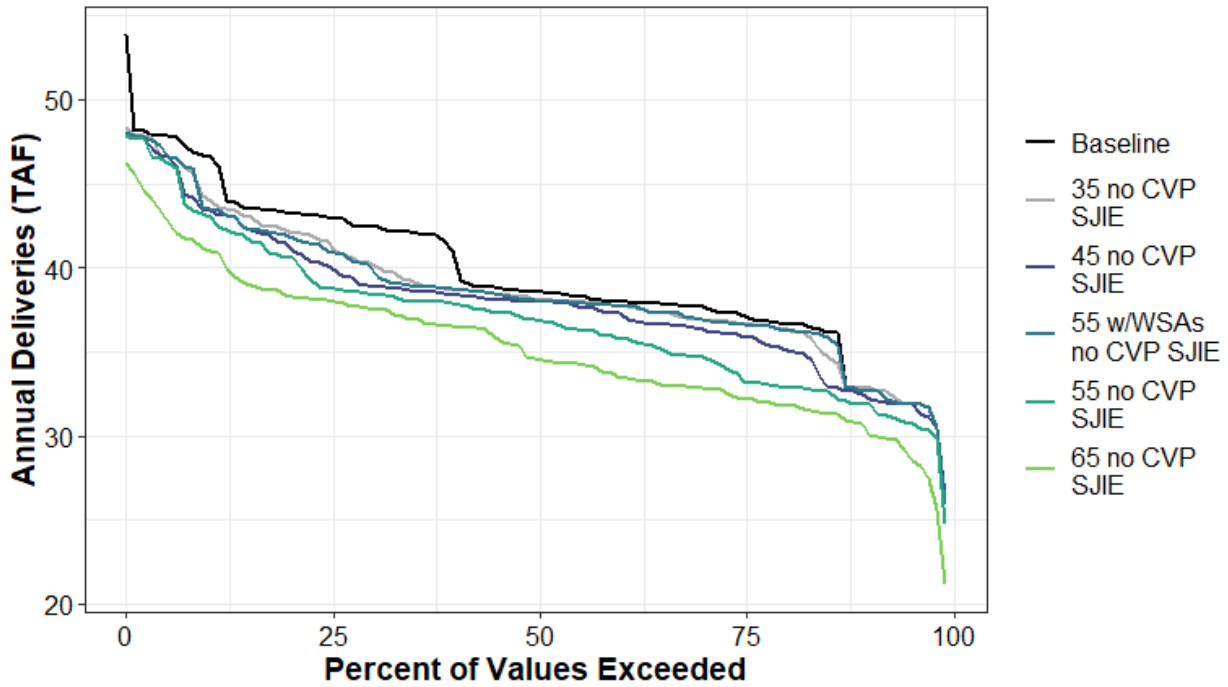

Figure H1a4-163. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-330. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	54	48	48	48	48	46
10%	47	44	43	44	43	41
20%	43	42	41	42	41	38
30%	42	40	39	40	38	38
40%	41	39	38	39	38	37
50%	39	38	38	38	37	35
60%	38	38	37	38	36	33
70%	38	37	36	37	35	33
80%	37	36	35	36	33	32
90%	33	33	32	33	32	31
100%	26	26	26	26	25	21
Mean	40	39	38	39	37	35

Table H1a4-331. Total Water Supplied to Water Budget Area 3 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	44	39	38	39	36	34
D	41	40	39	40	36	34
BN	39	39	39	39	38	34
AN	37	37	37	37	37	36
W	38	38	38	38	38	38
All	40	39	38	39	37	35

H1a4.6.4 Water Budget Area 3 (Urban)

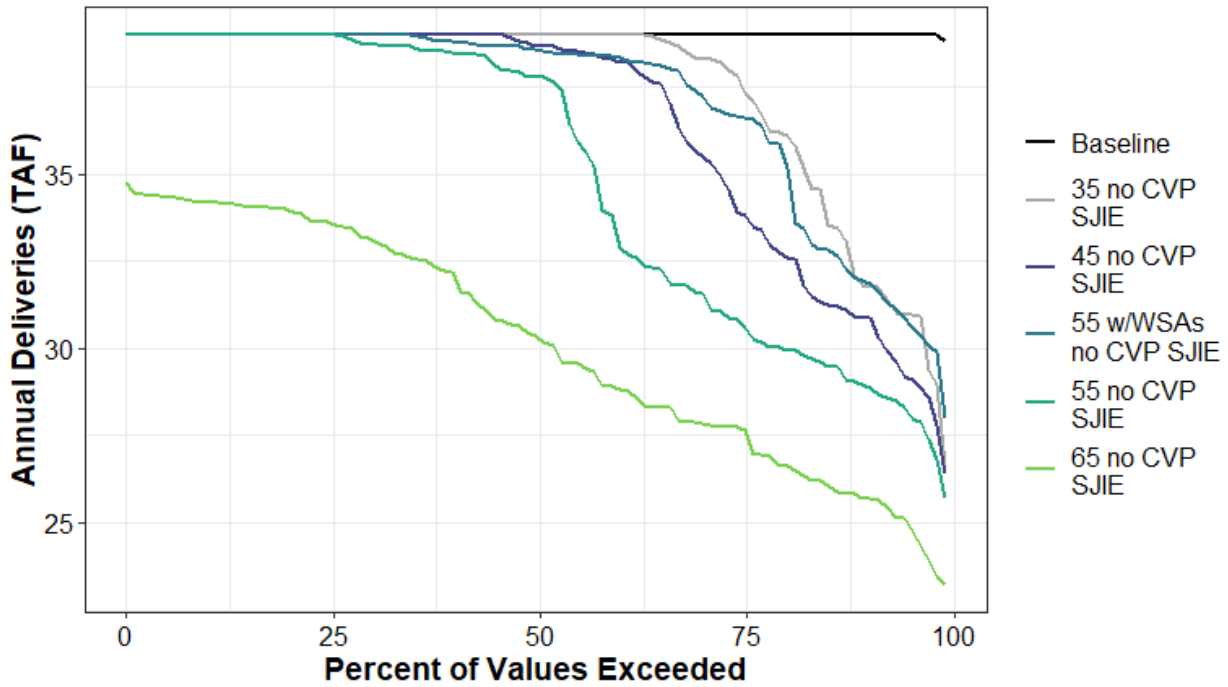

Figure H1a4-164. Total Water Supplied to Water Budget Area 3 (Urban) Annual Percent Exceedance Plot.

Table H1a4-332. Total Water Supplied to Water Budget Area 3 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	39	39	39	39	39	35
10%	39	39	39	39	39	34
20%	39	39	39	39	39	34
30%	39	39	39	39	39	33
40%	39	39	39	39	38	32
50%	39	39	39	39	38	30
60%	39	39	38	38	33	29
70%	39	38	36	37	32	28
80%	39	36	33	36	30	27
90%	39	32	31	32	29	26
100%	39	27	26	28	26	23
Mean	39	37	37	37	35	30

Table H1a4-333. Total Water Supplied to Water Budget Area 3 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	39	32	31	32	30	27
D	39	37	35	36	31	27
BN	39	39	38	38	35	29
AN	39	39	39	39	38	33
W	39	39	39	39	39	34
All	39	37	37	37	35	30

H1a4.6.5 Water Budget Areas 4 and 6 (Agricultural)

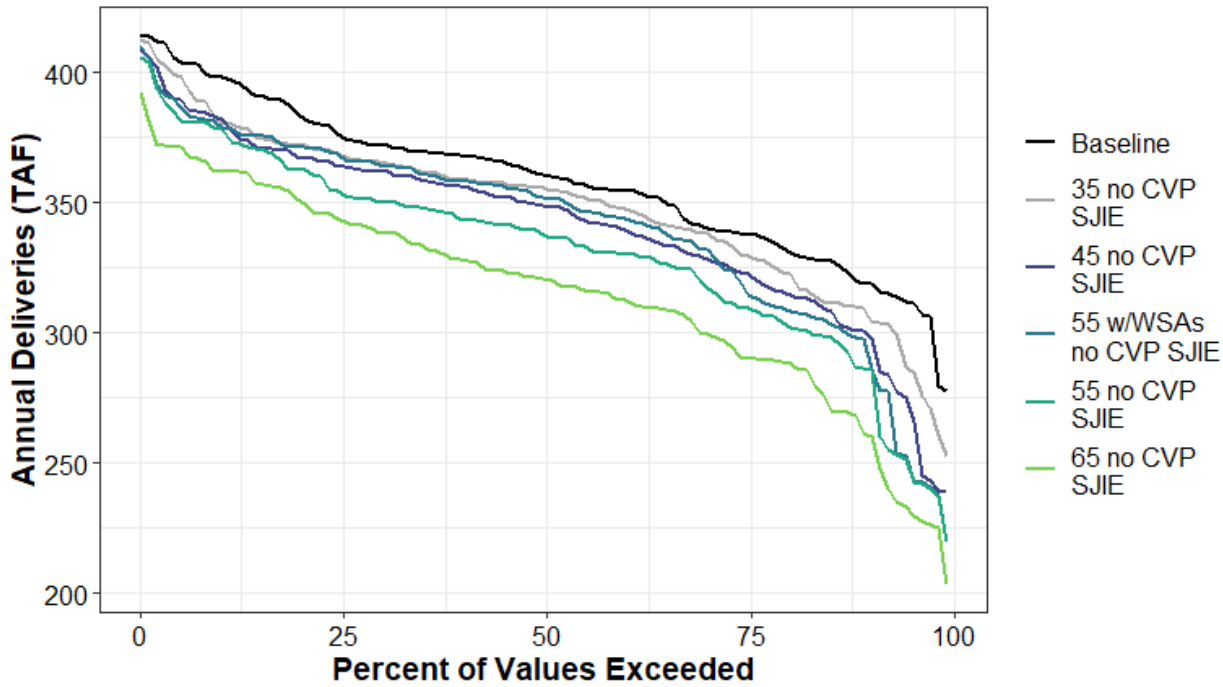

Figure H1a4-165. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-334. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	415	413	409	410	406	392
10%	398	381	382	380	378	362
20%	383	372	367	371	362	350
30%	372	365	362	364	350	338
40%	368	359	356	358	343	328
50%	361	356	349	352	338	321
60%	355	348	340	344	330	313
70%	341	338	329	332	318	300
80%	332	323	315	309	303	289
90%	319	309	300	295	286	261
100%	277	252	239	220	220	203
Mean	359	348	341	341	332	316

Table H1a4-335. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	385	363	356	362	345	337
D	369	364	357	362	349	334
BN	364	361	358	360	347	329
AN	343	339	333	333	327	309
W	340	325	315	306	304	285
All	359	348	341	341	332	316

H1a4.6.6 Water Budget Area 5 (Agricultural)

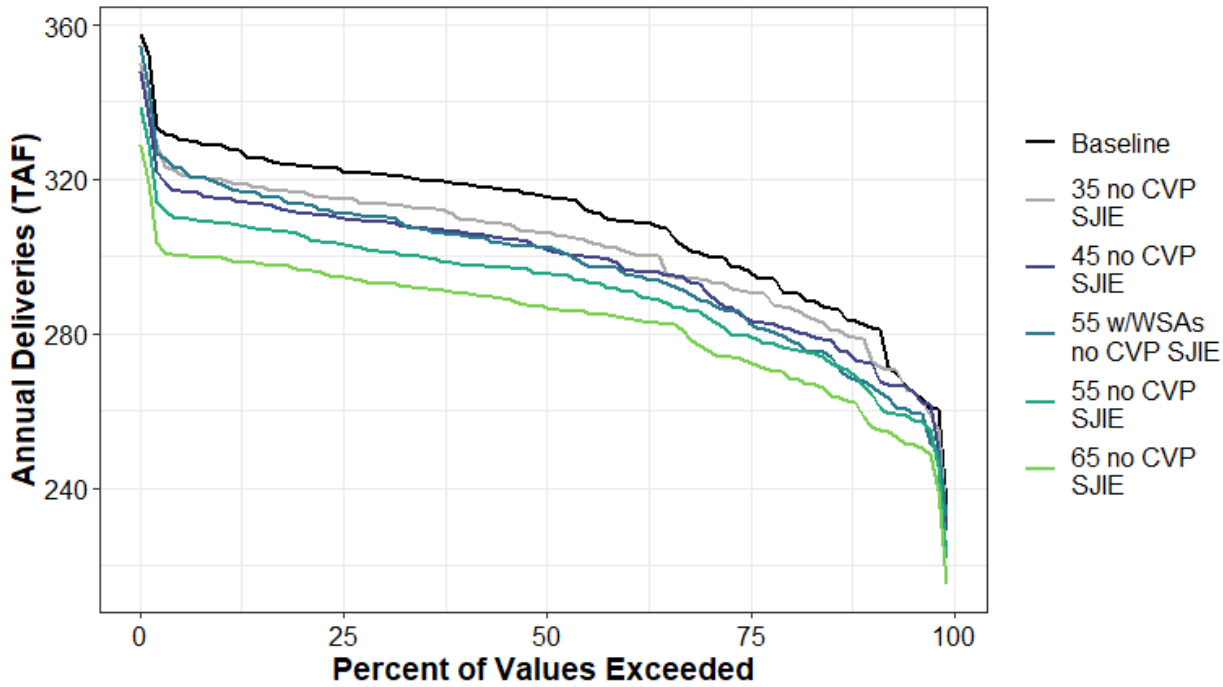

Figure H1a4-166. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-336. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	358	350	348	355	339	329
10%	329	320	315	319	309	300
20%	324	316	311	314	305	297
30%	321	314	309	310	301	293
40%	319	310	306	306	298	291
50%	316	306	302	302	296	287
60%	309	302	297	296	291	284
70%	300	294	292	288	285	276
80%	291	287	281	279	277	269
90%	282	278	273	267	266	258
100%	235	231	229	232	222	215
Mean	309	302	298	297	291	283

Table H1a4-337. Total Water Supplied to Water Budget Area 5 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	322	314	311	316	305	297
D	315	307	302	305	295	288
BN	309	301	296	297	289	280
AN	300	294	292	289	285	277
W	300	295	291	284	284	277
All	309	302	298	297	291	283

H1a4.6.7 Water Budget Area 7 (Agricultural)

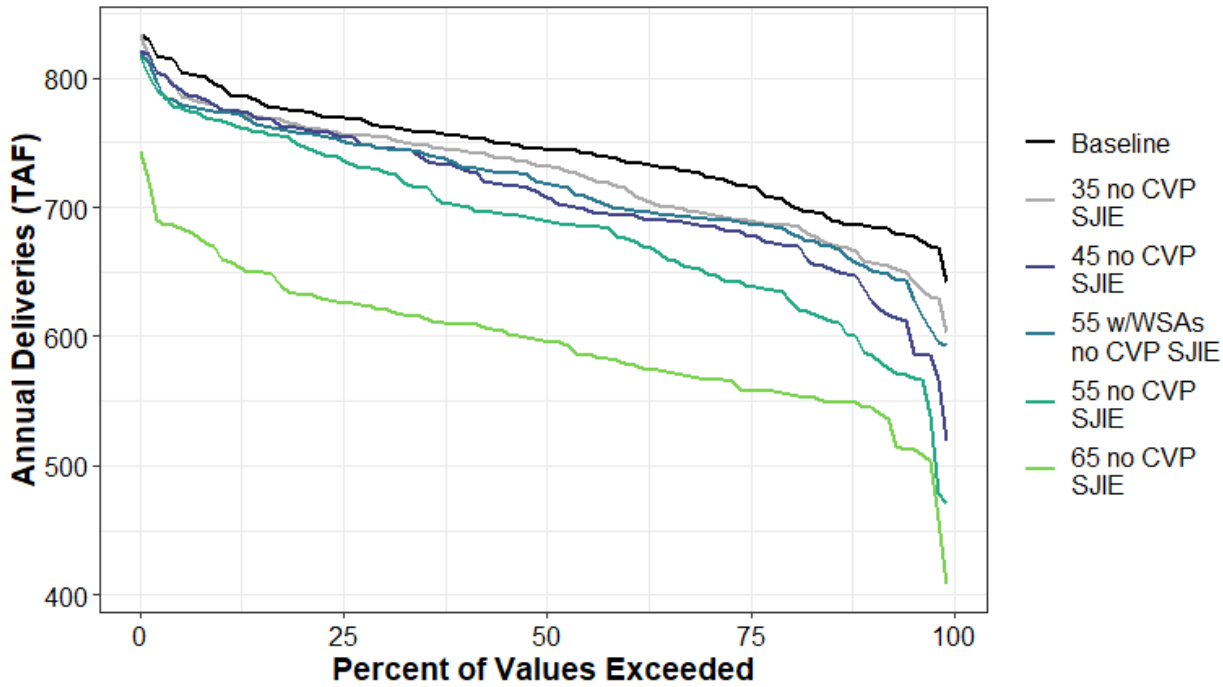

Figure H1a4-167. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-338. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	834	833	821	818	816	742
10%	794	776	776	774	767	662
20%	775	762	761	757	748	632
30%	762	755	745	745	728	621
40%	755	744	730	731	701	609
50%	745	731	709	719	689	597
60%	736	716	694	698	677	580
70%	724	695	686	691	650	567
80%	704	686	670	682	632	556
90%	686	658	636	654	588	545
100%	642	603	518	593	471	408
Mean	743	724	709	716	684	596

Table H1a4-339. Total Water Supplied to Water Budget Area 7 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	754	684	670	674	661	649
D	758	727	685	706	631	591
BN	758	756	737	745	677	577
AN	734	734	734	732	729	588
W	719	720	721	720	720	586
All	743	724	709	716	684	596

H1a4.6.8 Water Budget Area 8 (Agricultural)

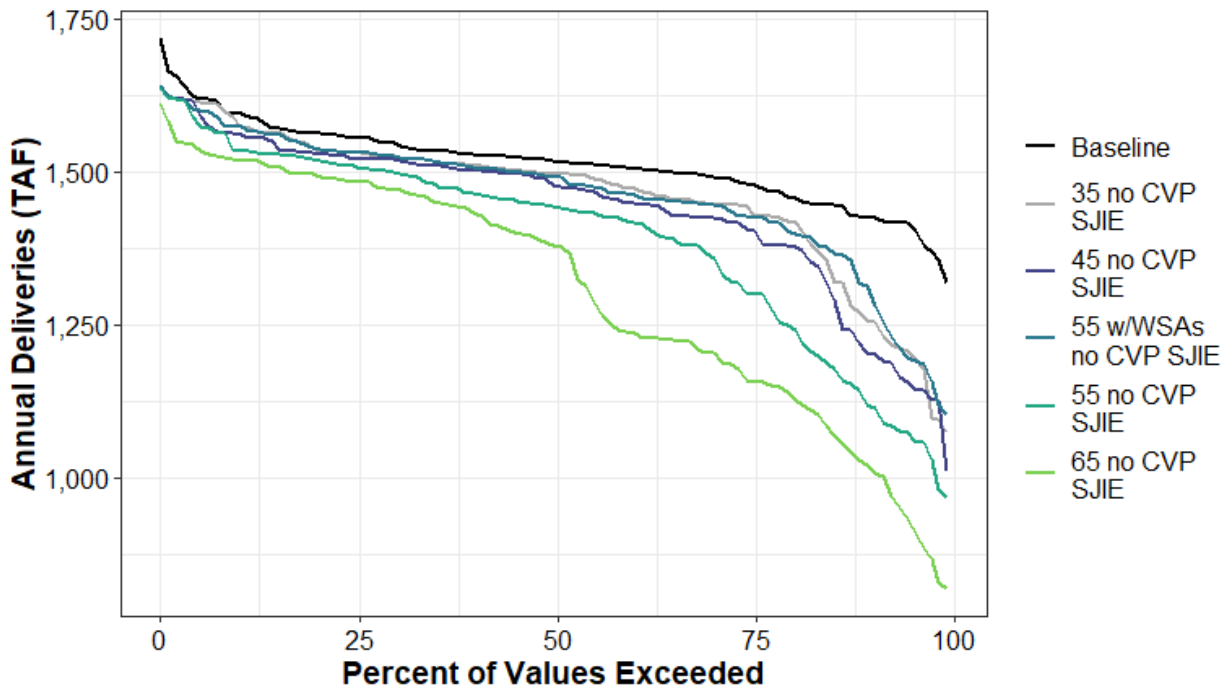

Figure H1a4-168. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-340. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,718	1,639	1,638	1,641	1,639	1,611
10%	1,596	1,575	1,562	1,573	1,534	1,518
20%	1,562	1,535	1,530	1,538	1,518	1,493
30%	1,545	1,523	1,518	1,524	1,498	1,471
40%	1,528	1,510	1,501	1,507	1,464	1,432
50%	1,517	1,497	1,477	1,491	1,443	1,379
60%	1,506	1,472	1,448	1,462	1,417	1,238
70%	1,492	1,447	1,425	1,446	1,362	1,204
80%	1,458	1,418	1,377	1,402	1,246	1,135
90%	1,426	1,258	1,204	1,308	1,119	1,018
100%	1,318	1,073	1,010	1,102	968	819
Mean	1,514	1,461	1,441	1,462	1,391	1,307

Table H1a4-341. Total Water Supplied to Water Budget Area 8 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,572	1,247	1,201	1,271	1,106	1,022
D	1,540	1,531	1,482	1,516	1,359	1,177
BN	1,526	1,530	1,517	1,530	1,476	1,327
AN	1,483	1,489	1,488	1,488	1,490	1,472
W	1,470	1,470	1,470	1,469	1,472	1,475
All	1,514	1,461	1,441	1,462	1,391	1,307

H1a4.6.9 Water Budget Area 8 (Refuge)

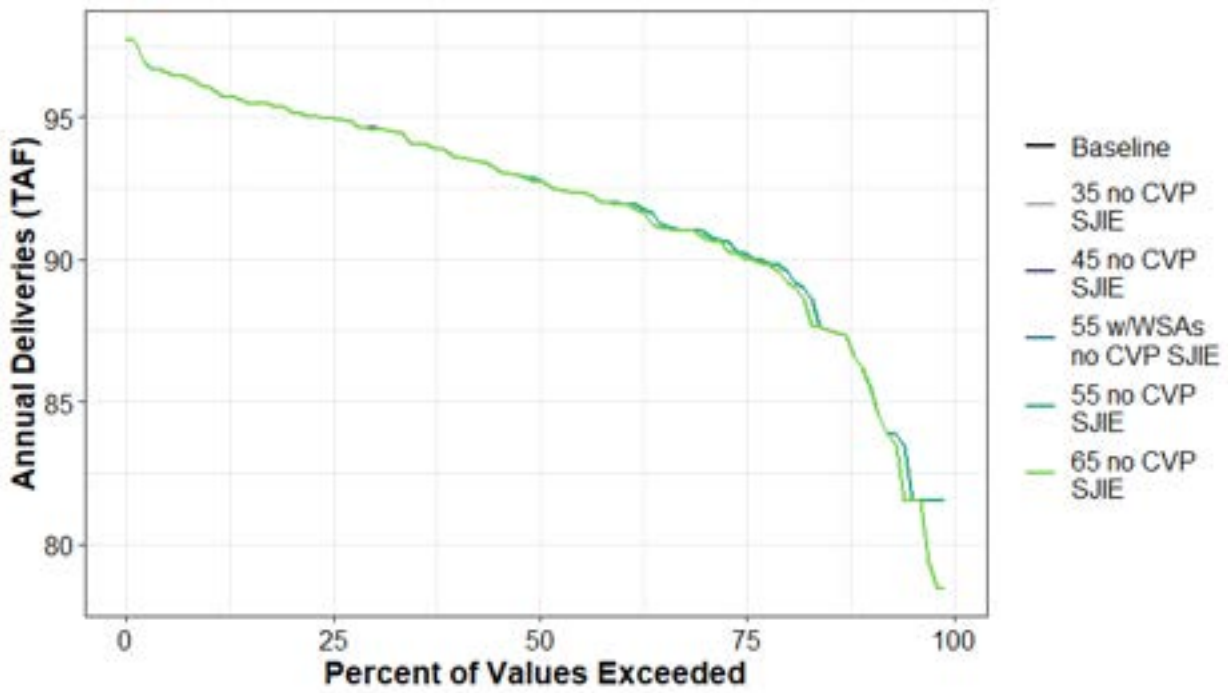

Figure H1a4-169. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Percent Exceedance Plot.

Table H1a4-342. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	98	98	98	98	98	98
10%	96	96	96	96	96	96
20%	95	95	95	95	95	95
30%	95	95	95	95	95	95
40%	94	94	94	94	94	94
50%	93	93	93	93	93	93
60%	92	92	92	92	92	92
70%	91	91	91	91	91	91
80%	90	90	90	90	90	89
90%	86	86	86	86	86	86
100%	82	82	82	82	82	78
Mean	92	92	92	92	92	92

Table H1a4-343. Total Water Supplied to Water Budget Area 8 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	90	90	90	90	90	90
D	93	93	93	93	93	93
BN	93	93	93	93	93	93
AN	91	91	91	91	91	91
W	92	92	92	92	92	92
All	92	92	92	92	92	92

H1a4.6.10Water Budget Area 9 (Agricultural)

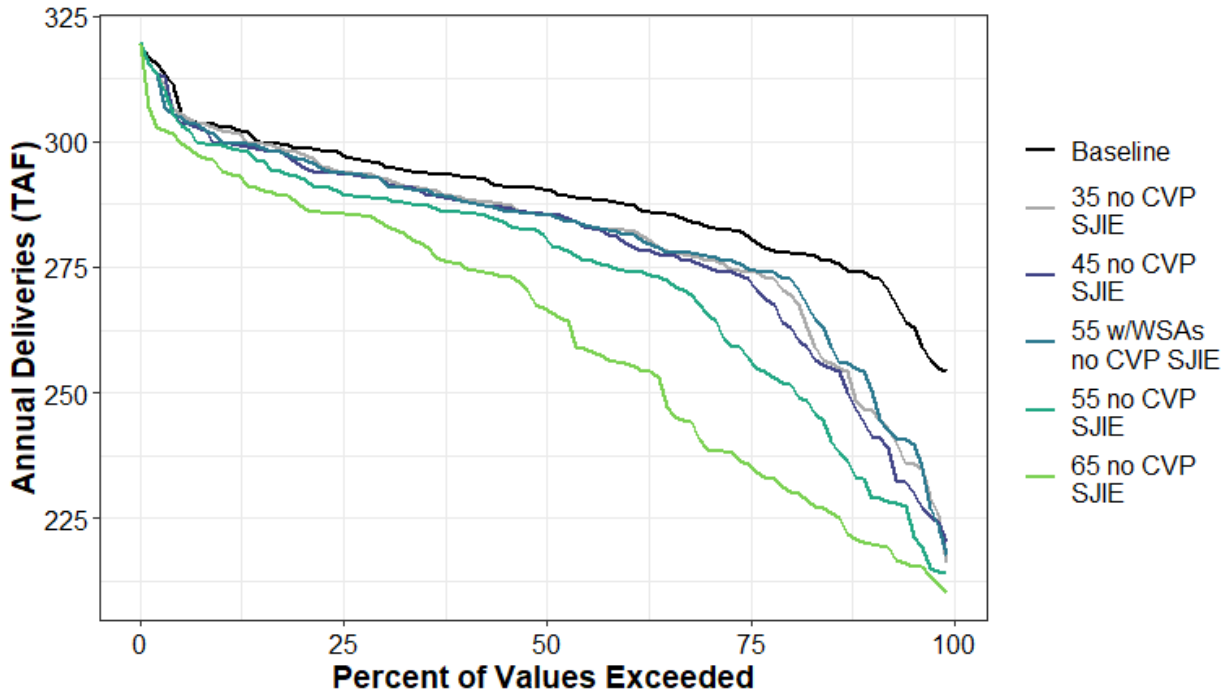

Figure H1a4-170. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-344. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	320	320	320	320	320	319
10%	303	302	300	300	299	294
20%	299	298	295	296	293	287
30%	295	293	292	292	289	284
40%	293	289	288	288	286	275
50%	291	286	286	286	282	267
60%	288	282	280	282	274	256
70%	283	277	275	277	266	240
80%	278	270	264	273	252	231
90%	274	247	244	254	232	220
100%	254	216	220	218	214	210
Mean	289	281	279	281	274	262

Table H1a4-345. Total Water Supplied to Water Budget Area 9 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	297	247	242	253	231	227
D	294	294	292	290	274	242
BN	294	295	293	295	290	270
AN	284	285	286	286	286	283
W	279	279	280	280	280	281
All	289	281	279	281	274	262

H1a4.6.11 Water Budget Area 9 (Refuge)

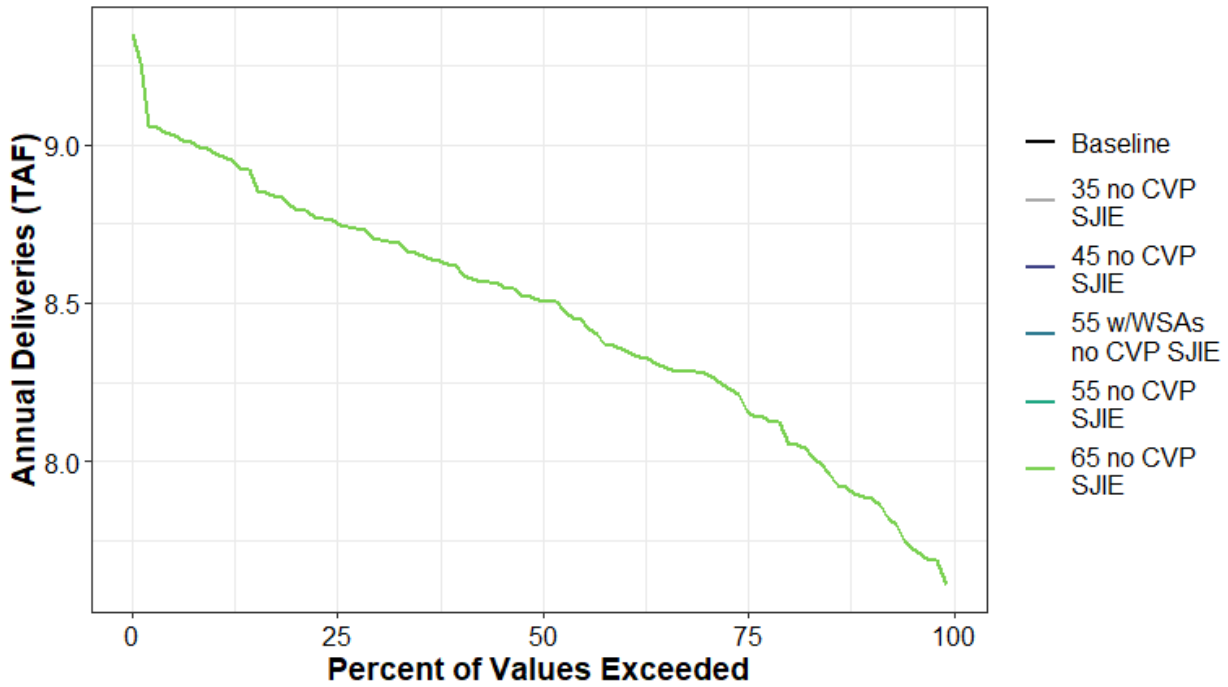

Figure H1a4-171. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Percent Exceedance Plot.

Table H1a4-346. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	9.3	9.3	9.3	9.3	9.3	9.3
10%	9	9	9	9	9	9
20%	8.8	8.8	8.8	8.8	8.8	8.8
30%	8.7	8.7	8.7	8.7	8.7	8.7
40%	8.6	8.6	8.6	8.6	8.6	8.6
50%	8.5	8.5	8.5	8.5	8.5	8.5
60%	8.4	8.4	8.4	8.4	8.4	8.4
70%	8.3	8.3	8.3	8.3	8.3	8.3
80%	8.1	8.1	8.1	8.1	8.1	8.1
90%	7.9	7.9	7.9	7.9	7.9	7.9
100%	7.6	7.6	7.6	7.6	7.6	7.6
Mean	8.5	8.5	8.5	8.5	8.5	8.5

Table H1a4-347. Total Water Supplied to Water Budget Area 9 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	8.8	8.8	8.8	8.8	8.8	8.8
D	8.6	8.6	8.6	8.6	8.6	8.6
BN	8.6	8.6	8.6	8.6	8.6	8.6
AN	8.3	8.3	8.3	8.3	8.3	8.3
W	8.2	8.2	8.2	8.2	8.2	8.2
All	8.5	8.5	8.5	8.5	8.5	8.5

H1a4.6.12 Water Budget Area 10 (Agricultural)

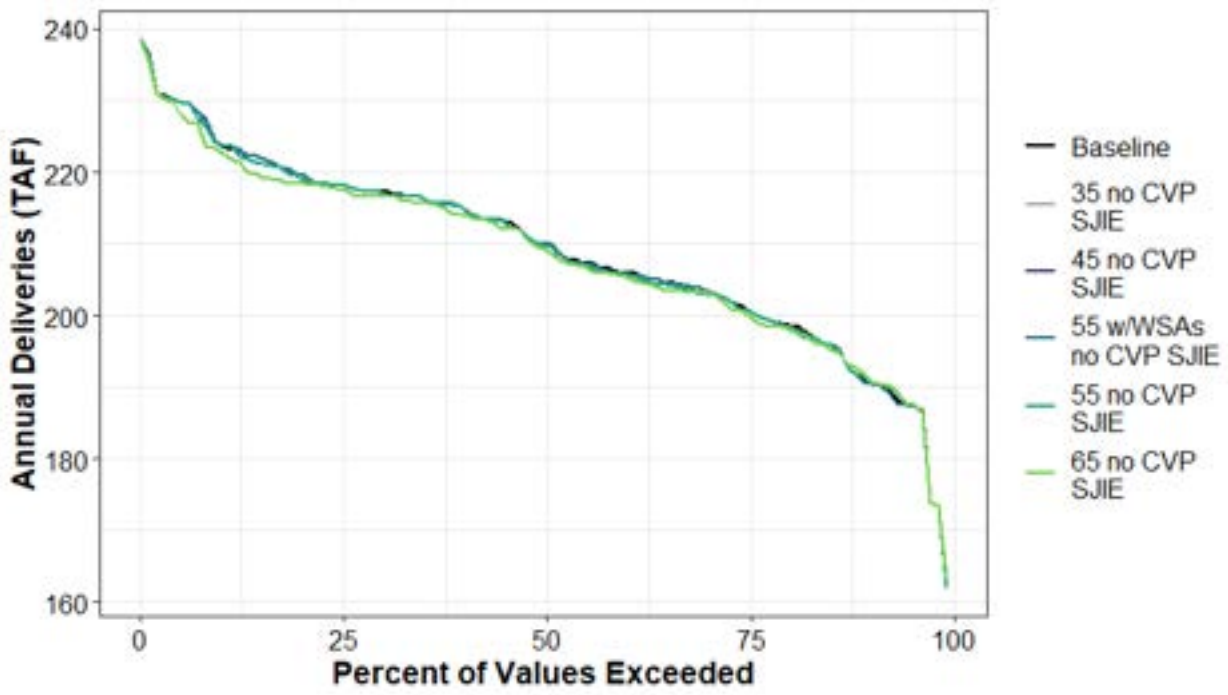

Figure H1a4-172. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-348. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	239	239	239	239	239	239
10%	224	224	224	224	224	223
20%	220	220	220	220	219	218
30%	217	217	217	217	217	217
40%	215	215	215	215	215	214
50%	210	210	210	210	210	209
60%	206	206	206	206	206	206
70%	204	204	204	204	203	203
80%	199	199	199	199	198	198
90%	191	191	191	191	191	192
100%	162	162	162	162	162	163
Mean	209	209	209	209	209	208

Table H1a4-349. Total Water Supplied to Water Budget Area 10 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	220	220	220	220	219	218
D	214	214	214	214	214	213
BN	210	210	210	210	210	210
AN	203	203	203	202	203	202
W	202	202	202	202	202	202
All	209	209	209	209	209	208

H1a4.6.13 Water Budget Area 11 (Agricultural)

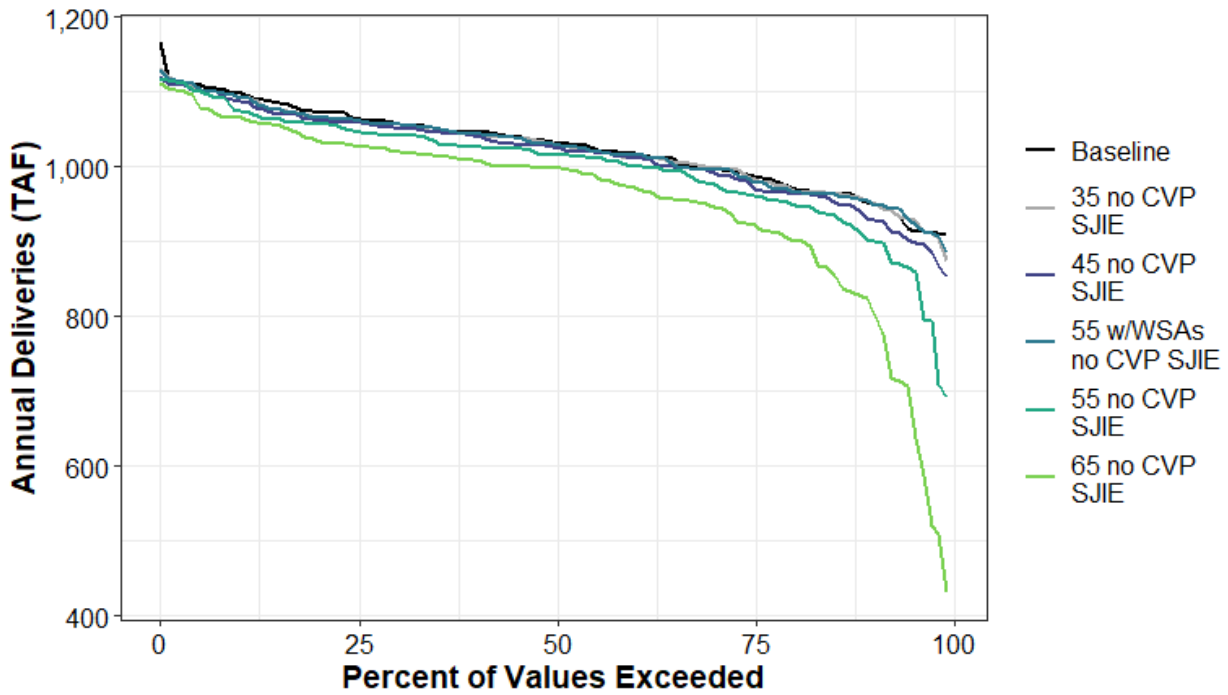

Figure H1a4-173. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-350. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,167	1,132	1,120	1,129	1,119	1,111
10%	1,098	1,093	1,089	1,093	1,076	1,066
20%	1,074	1,066	1,063	1,066	1,057	1,036
30%	1,059	1,053	1,052	1,058	1,043	1,020
40%	1,046	1,044	1,042	1,044	1,027	1,010
50%	1,034	1,031	1,027	1,030	1,016	998
60%	1,018	1,012	1,013	1,016	1,002	974
70%	999	1,000	994	997	978	949
80%	974	972	965	969	952	903
90%	953	955	931	954	902	821
100%	910	875	852	885	693	431
Mean	1,027	1,024	1,016	1,024	1,000	955

Table H1a4-351. Total Water Supplied to Water Budget Area 11 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,048	1,024	1,009	1,032	952	845
D	1,054	1,056	1,048	1,056	1,026	987
BN	1,042	1,044	1,035	1,045	1,030	960
AN	1,008	1,010	1,006	1,011	1,001	974
W	993	992	989	988	987	980
All	1,027	1,024	1,016	1,024	1,000	955

H1a4.6.14Water Budget Area 11 (Refuge)

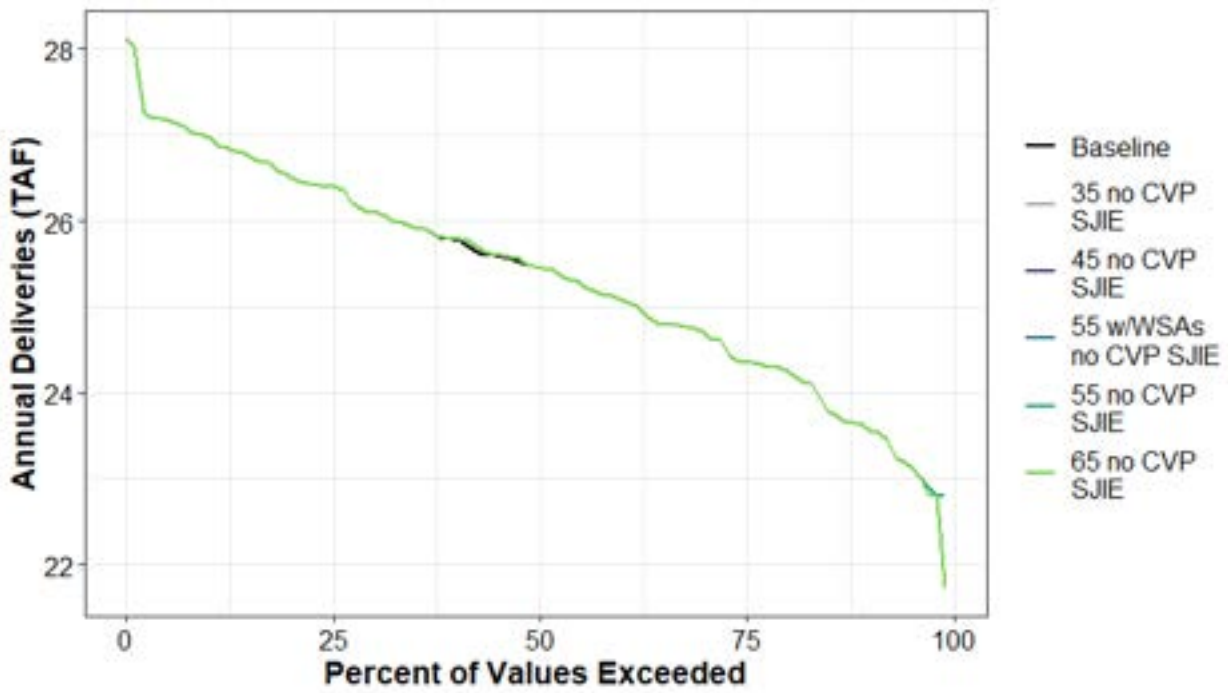

Figure H1a4-174. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Percent Exceedance Plot.

Table H1a4-352. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	28.1	28.1	28.1	28.1	28.1	28.1
10%	27	27	27	27	27	27
20%	26.5	26.5	26.5	26.5	26.5	26.5
30%	26.1	26.1	26.1	26.1	26.1	26.1
40%	25.8	25.8	25.8	25.8	25.8	25.8
50%	25.5	25.5	25.5	25.5	25.5	25.5
60%	25.1	25.1	25.1	25.1	25.1	25.1
70%	24.7	24.7	24.7	24.7	24.7	24.7
80%	24.3	24.3	24.3	24.3	24.3	24.3
90%	23.6	23.6	23.6	23.6	23.6	23.6
100%	22.8	22.8	22.8	22.8	22.8	21.7
Mean	25.4	25.4	25.4	25.4	25.4	25.4

Table H1a4-353. Total Water Supplied to Water Budget Area 11 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	26.6	26.6	26.6	26.6	26.6	26.6
D	25.8	25.8	25.8	25.8	25.8	25.8
BN	25.6	25.6	25.6	25.6	25.6	25.6
AN	24.9	24.9	24.9	24.9	24.9	24.9
W	24.4	24.4	24.4	24.4	24.4	24.3
All	25.4	25.4	25.4	25.4	25.4	25.4

H1a4.6.15 Water Budget Area 11 (Urban)

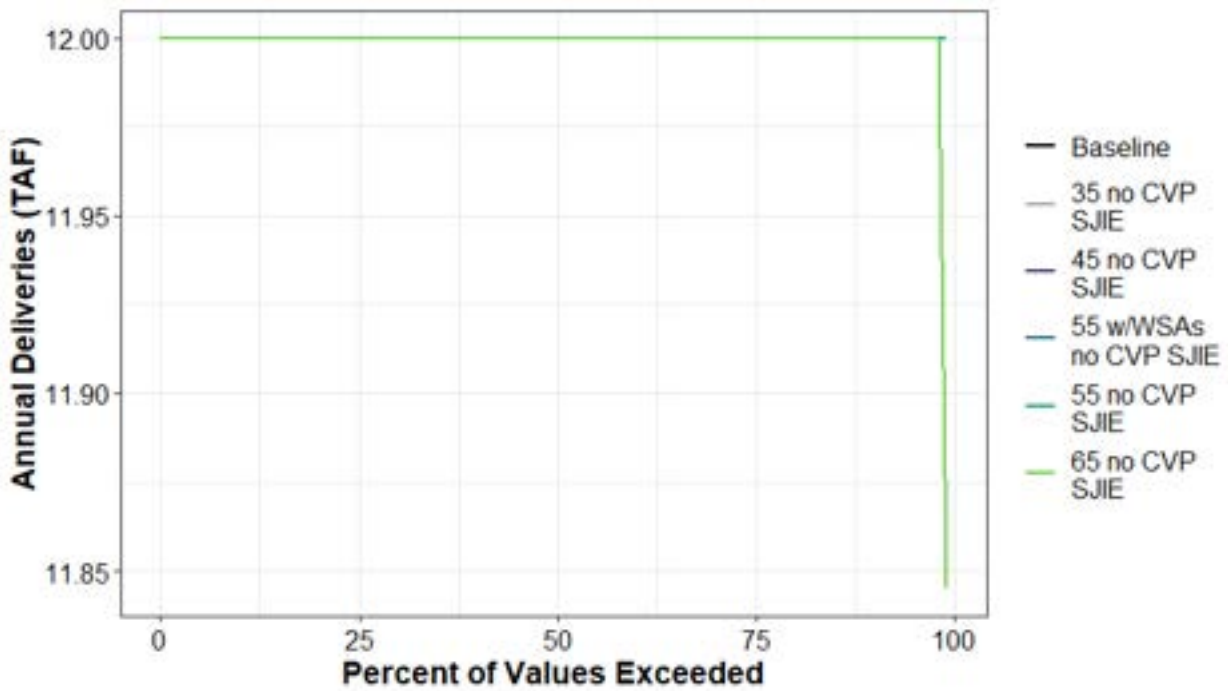

Figure H1a4-175. Total Water Supplied to Water Budget Area 11 (Urban) Annual Percent Exceedance Plot.

Table H1a4-354. Total Water Supplied to Water Budget Area 11 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	12	12	12	12	12	12
10%	12	12	12	12	12	12
20%	12	12	12	12	12	12
30%	12	12	12	12	12	12
40%	12	12	12	12	12	12
50%	12	12	12	12	12	12
60%	12	12	12	12	12	12
70%	12	12	12	12	12	12
80%	12	12	12	12	12	12
90%	12	12	12	12	12	12
100%	12	12	12	12	12	11.8
Mean	12	12	12	12	12	12

Table H1a4-355. Total Water Supplied to Water Budget Area 11 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	12	12	12	12	12	12
D	12	12	12	12	12	12
BN	12	12	12	12	12	12
AN	12	12	12	12	12	12
W	12	12	12	12	12	12
All	12	12	12	12	12	12

H1a4.6.16Water Budget Areas 12 and 13 (Agricultural)

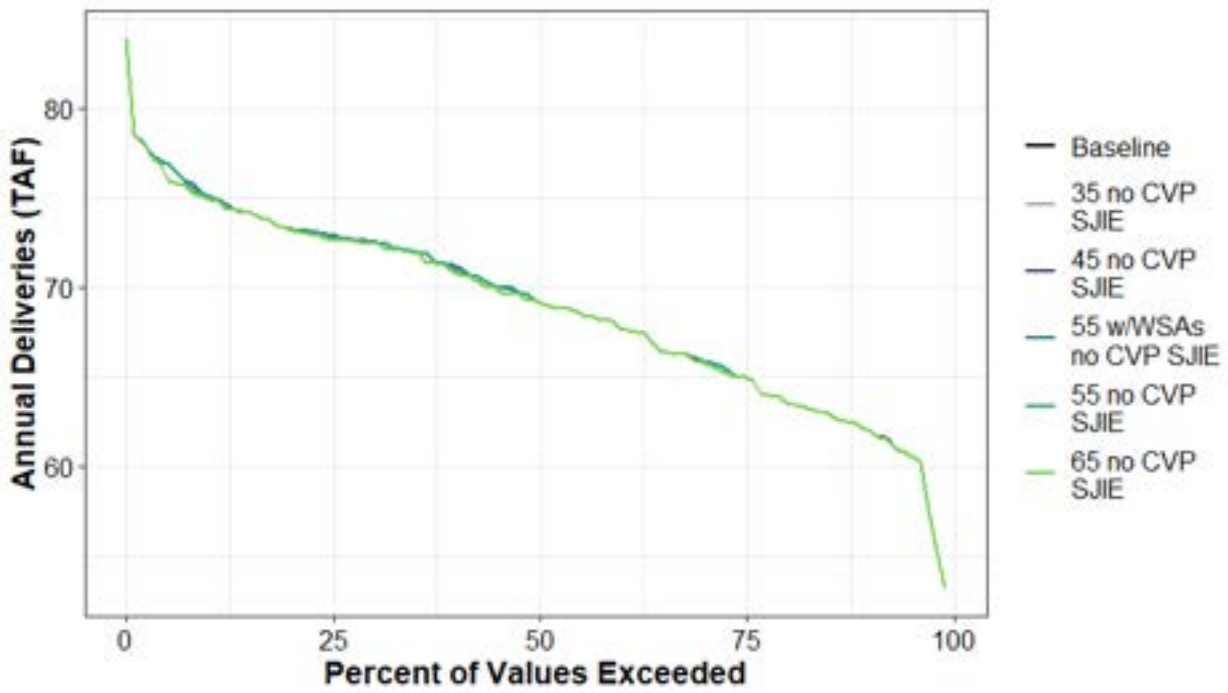

Figure H1a4-176. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-356. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	84	84	84	84	84	84
10%	75	75	75	75	75	75
20%	73	73	73	73	73	73
30%	73	73	73	73	72	72
40%	71	71	71	71	71	71
50%	69	69	69	69	69	69
60%	68	68	68	68	68	68
70%	66	66	66	66	66	66
80%	64	64	64	64	64	64
90%	62	62	62	62	62	62
100%	53	53	53	53	53	53
Mean	69	69	69	69	69	69

Table H1a4-357. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	75	75	75	75	75	74
D	70	70	70	70	70	70
BN	70	70	70	70	70	70
AN	67	67	67	67	67	67
W	65	65	65	65	65	65
All	69	69	69	69	69	69

H1a4.6.17Water Budget Areas 12 and 13 (Urban)

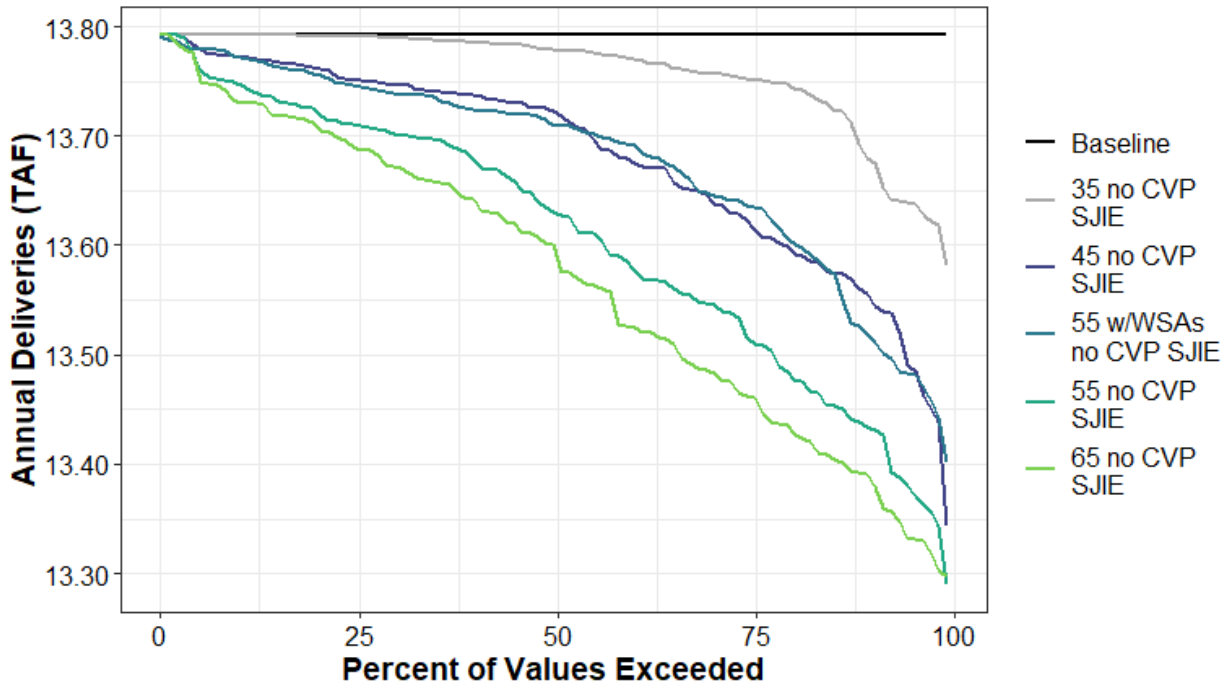

Figure H1a4-177. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Percent Exceedance Plot.

Table H1a4-358. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	13.8	13.8	13.8	13.8	13.8	13.8
10%	13.8	13.8	13.8	13.8	13.7	13.7
20%	13.8	13.8	13.8	13.8	13.7	13.7
30%	13.8	13.8	13.7	13.7	13.7	13.7
40%	13.8	13.8	13.7	13.7	13.7	13.6
50%	13.8	13.8	13.7	13.7	13.6	13.6
60%	13.8	13.8	13.7	13.7	13.6	13.5
70%	13.8	13.8	13.6	13.6	13.5	13.5
80%	13.8	13.7	13.6	13.6	13.5	13.4
90%	13.8	13.7	13.6	13.5	13.4	13.4
100%	13.8	13.6	13.3	13.4	13.3	13.3
Mean	13.8	13.8	13.7	13.7	13.6	13.6

Table H1a4-359. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	13.8	13.8	13.7	13.7	13.7	13.7
D	13.8	13.7	13.6	13.6	13.5	13.5
BN	13.8	13.7	13.6	13.7	13.5	13.5
AN	13.8	13.8	13.7	13.7	13.6	13.5
W	13.8	13.8	13.7	13.7	13.7	13.6
All	13.8	13.8	13.7	13.7	13.6	13.6

H1a4.6.18Water Budget Areas 14 and 15N (Agricultural)

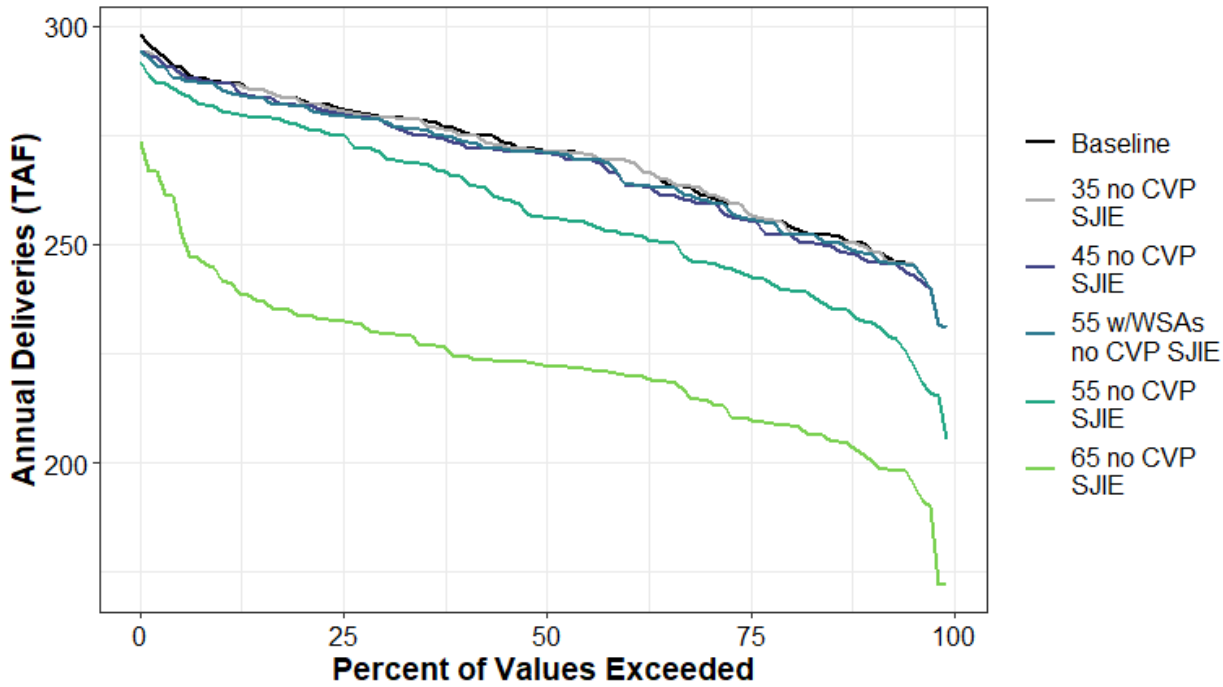

Figure H1a4-178. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-360. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	298	294	294	294	292	273
10%	287	287	287	286	281	242
20%	283	283	282	282	277	234
30%	279	279	278	278	271	230
40%	276	275	273	274	265	224
50%	271	271	271	271	256	222
60%	269	269	264	264	252	220
70%	261	262	259	260	246	214
80%	255	254	252	252	240	209
90%	250	249	246	248	232	202
100%	231	231	231	231	205	172
Mean	270	269	268	268	257	222

Table H1a4-361. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	280	278	269	272	252	232
D	277	277	277	276	256	228
BN	274	274	274	274	264	224
AN	265	264	264	264	257	220
W	258	258	258	258	256	214
All	270	269	268	268	257	222

H1a4.6.19 Water Budget Areas 14 and 15N (Urban)

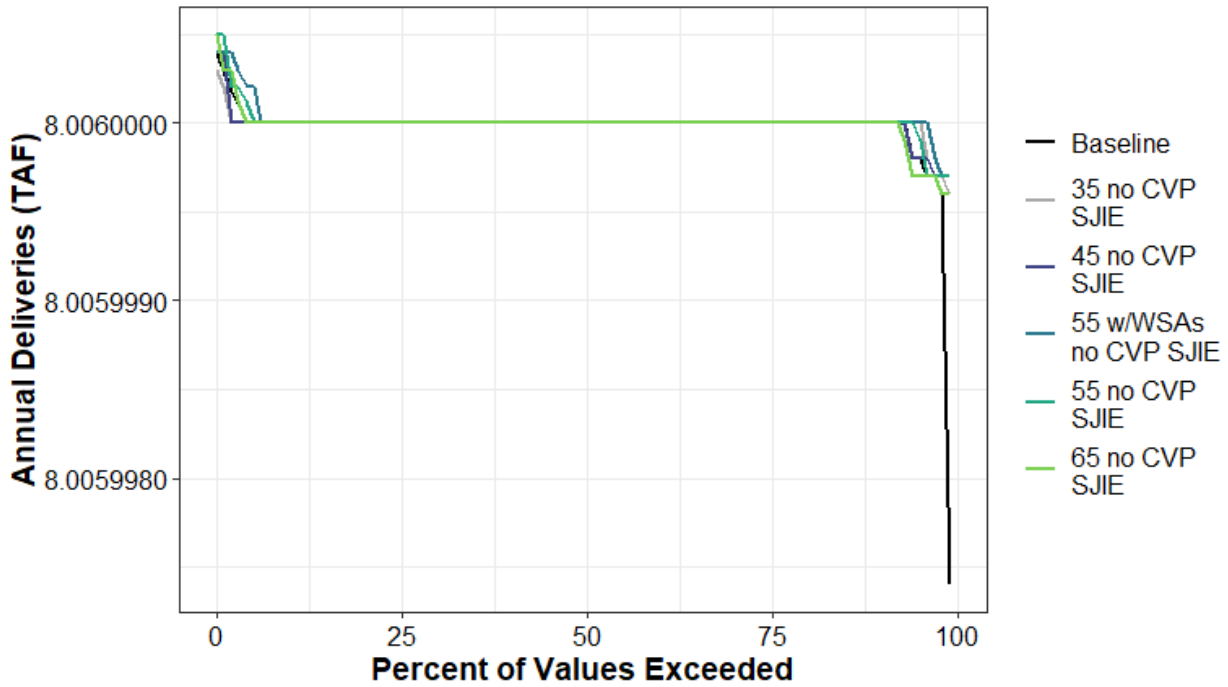

Figure H1a4-179. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Percent Exceedance Plot.

Table H1a4-362. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	8	8	8	8	8	8
10%	8	8	8	8	8	8
20%	8	8	8	8	8	8
30%	8	8	8	8	8	8
40%	8	8	8	8	8	8
50%	8	8	8	8	8	8
60%	8	8	8	8	8	8
70%	8	8	8	8	8	8
80%	8	8	8	8	8	8
90%	8	8	8	8	8	8
100%	8	8	8	8	8	8
Mean	8	8	8	8	8	8

Table H1a4-363. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	8	8	8	8	8	8
D	8	8	8	8	8	8
BN	8	8	8	8	8	8
AN	8	8	8	8	8	8
W	8	8	8	8	8	8
All	8	8	8	8	8	8

H1a4.6.20Water Budget Area 15S (Agricultural)

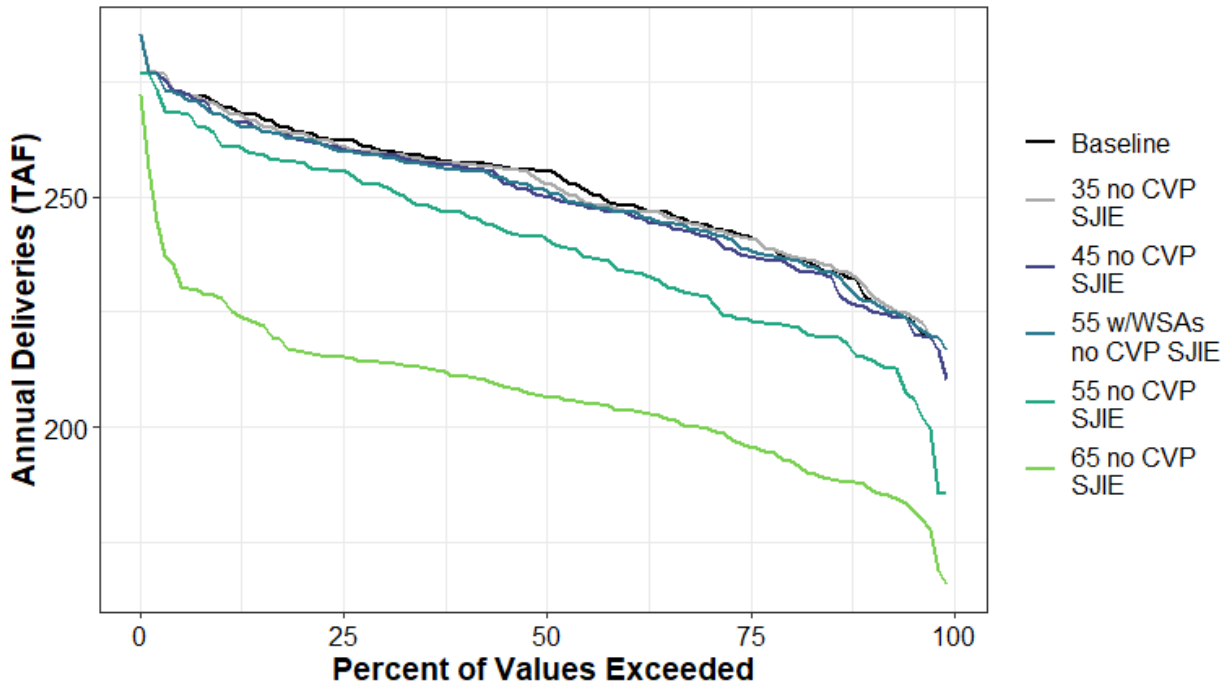

Figure H1a4-180. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-364. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	285	285	285	285	277	272
10%	270	269	268	268	261	228
20%	264	264	262	263	257	217
30%	260	260	259	259	252	214
40%	257	257	257	256	246	211
50%	256	253	250	252	241	207
60%	248	247	247	247	234	204
70%	244	243	242	243	228	200
80%	237	237	236	237	222	193
90%	228	230	226	227	215	187
100%	217	217	210	217	186	166
Mean	252	251	249	250	239	207

Table H1a4-365. Total Water Supplied to Water Budget Area 15S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	263	259	248	253	233	218
D	259	260	260	258	236	212
BN	254	254	254	254	245	207
AN	247	247	246	247	240	204
W	240	240	240	240	241	199
All	252	251	249	250	239	207

H1a4.6.21 Water Budget Area 16 (Agricultural)

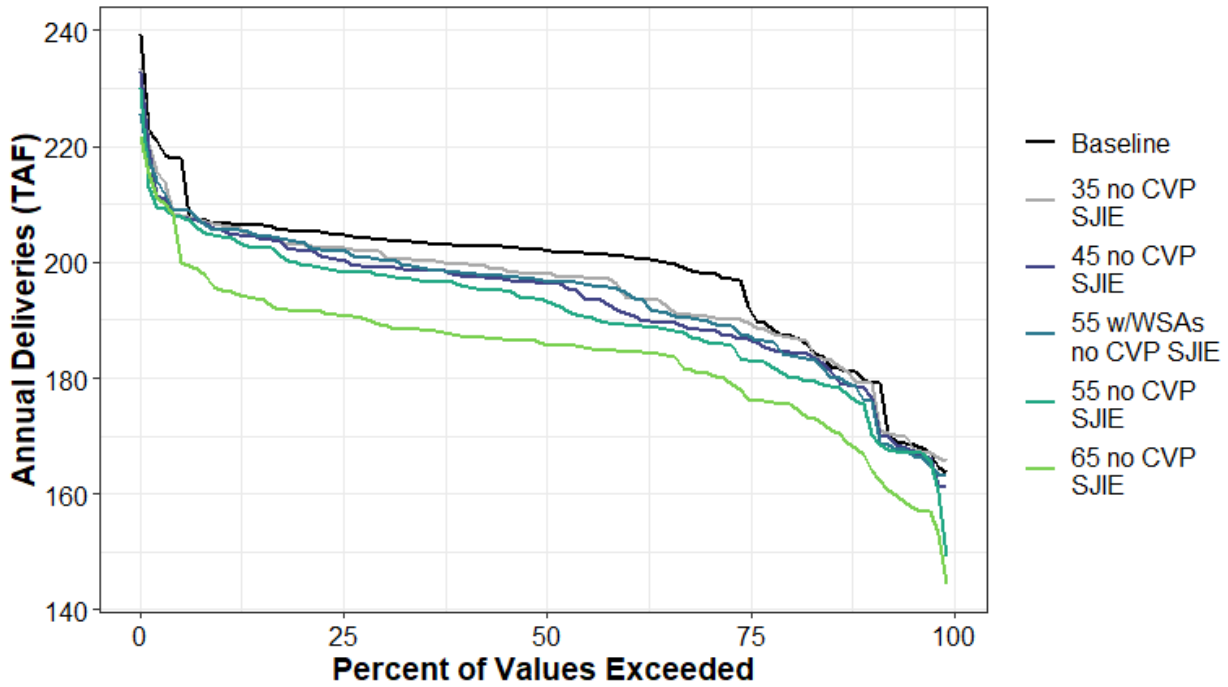

Figure H1a4-181. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-366. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	239	233	233	226	230	222
10%	207	206	206	206	204	195
20%	205	203	202	203	200	192
30%	204	201	199	200	198	189
40%	203	200	198	198	196	187
50%	202	198	196	197	193	186
60%	201	195	191	195	189	185
70%	198	191	188	190	186	181
80%	187	187	185	184	181	176
90%	180	179	178	176	174	166
100%	164	166	161	163	149	144
Mean	198	195	193	194	191	184

Table H1a4-367. Total Water Supplied to Water Budget Area 16 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	209	201	199	202	198	195
D	202	199	196	196	190	187
BN	198	196	194	195	190	182
AN	194	192	192	192	191	180
W	191	189	188	188	188	179
All	198	195	193	194	191	184

H1a4.6.22 Water Budget Area 16 (Urban)

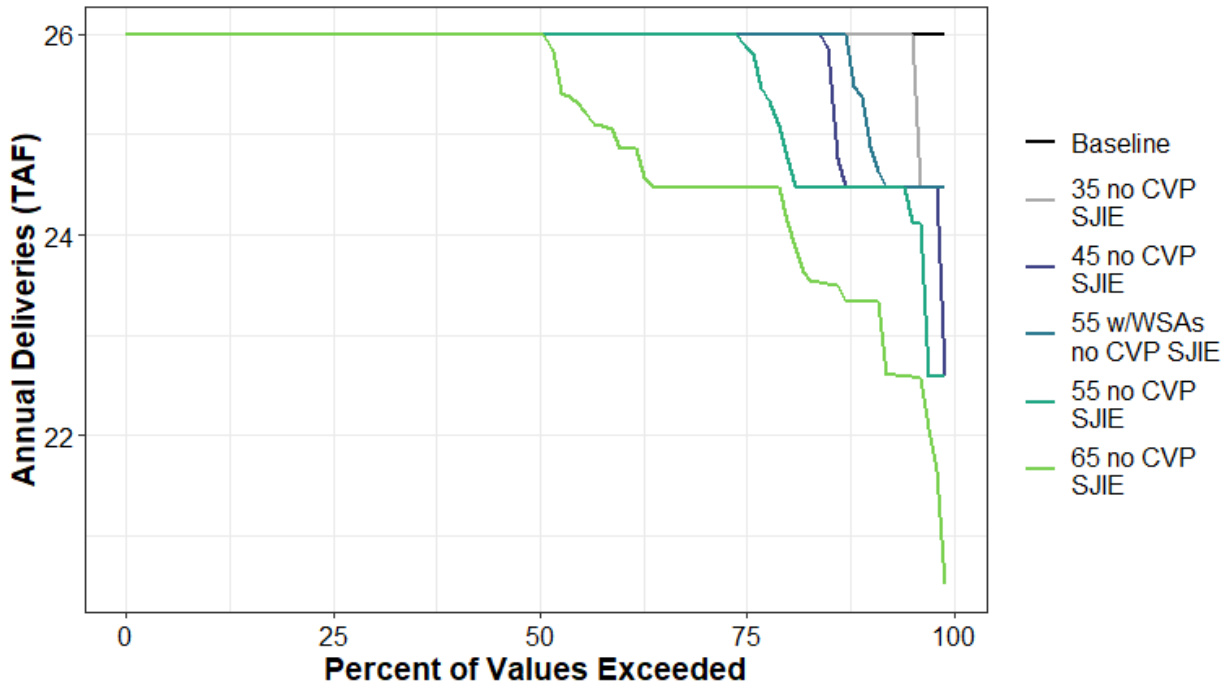

Figure H1a4-182. Total Water Supplied to Water Budget Area 16 (Urban) Annual Percent Exceedance Plot.

Table H1a4-368. Total Water Supplied to Water Budget Area 16 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	26	26	26	26	26	26
10%	26	26	26	26	26	26
20%	26	26	26	26	26	26
30%	26	26	26	26	26	26
40%	26	26	26	26	26	26
50%	26	26	26	26	26	26
60%	26	26	26	26	26	24.9
70%	26	26	26	26	26	24.5
80%	26	26	26	26	25	24.3
90%	26	26	24.5	25.3	24.5	23.3
100%	26	24.5	22.6	24.5	22.6	20.5
Mean	26	25.9	25.8	25.8	25.6	25

Table H1a4-369. Total Water Supplied to Water Budget Area 16 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	26	25.7	25.6	25.6	25.6	25.6
D	26	25.9	25.5	25.6	25.3	24.7
BN	26	26	25.7	26	25.3	24.1
AN	26	26	26	26	25.8	24.6
W	26	26	26	25.9	26	25.8
All	26	25.9	25.8	25.8	25.6	25

H1a4.6.23 Water Budget Area 17 (Agricultural)

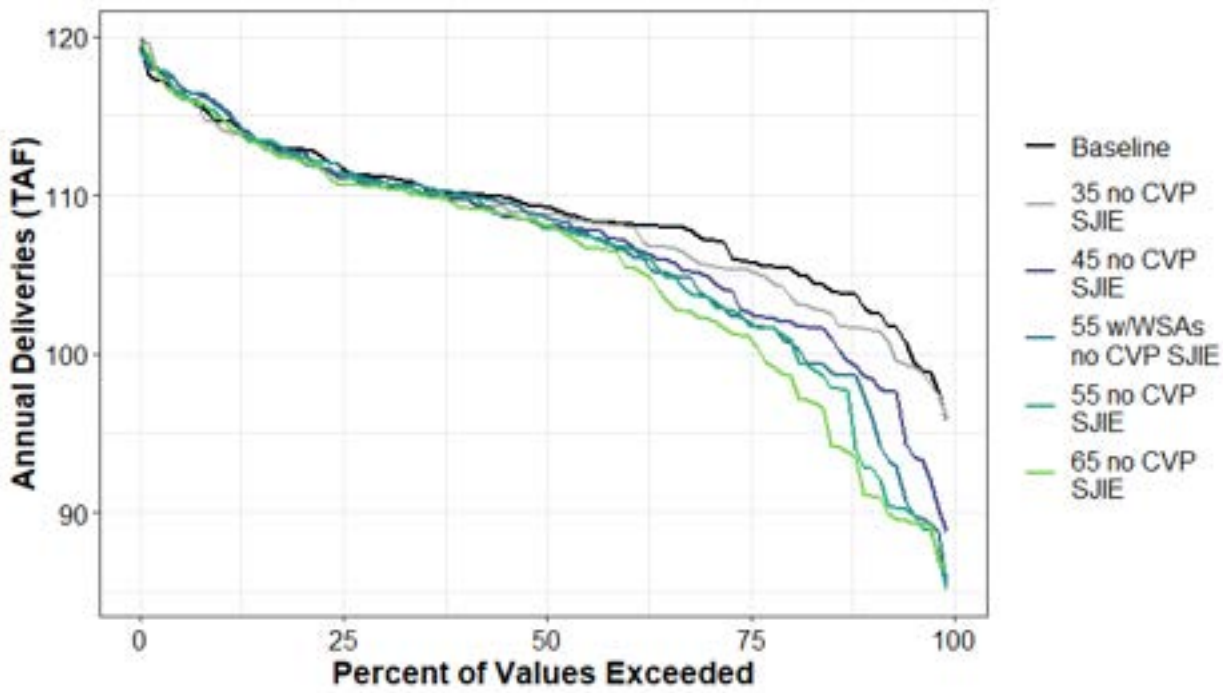

Figure H1a4-183. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-370. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	119	120	120	120	119	120
10%	115	114	116	115	115	115
20%	113	112	113	112	112	112
30%	111	111	111	111	111	110
40%	110	110	110	110	110	109
50%	109	109	108	109	108	108
60%	108	108	107	107	107	106
70%	107	106	105	104	104	102
80%	105	104	102	101	101	99
90%	103	102	99	97	93	91
100%	96	96	89	85	85	86
Mean	109	108	107	107	106	106

Table H1a4-371. Total Water Supplied to Water Budget Area 17 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	112	112	112	112	112	112
D	110	110	110	110	110	109
BN	110	109	109	109	109	108
AN	107	107	105	105	104	102
W	107	105	103	101	100	99
All	109	108	107	107	106	106

H1a4.6.24Water Budget Area 17 (Refuge)

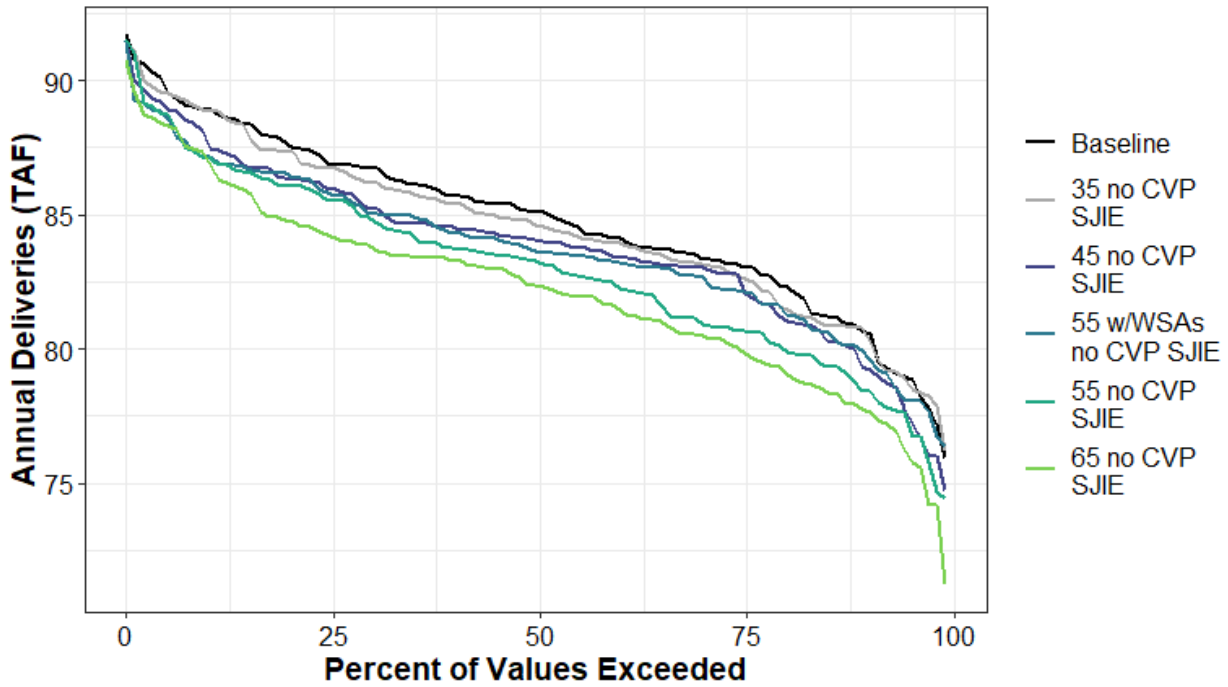

Figure H1a4-184. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Percent Exceedance Plot.

Table H1a4-372. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	92	91	91	91	92	91
10%	89	89	88	87	87	87
20%	88	87	86	86	86	85
30%	87	86	85	85	85	84
40%	86	85	85	84	84	83
50%	85	85	84	84	83	82
60%	84	84	83	83	82	81
70%	83	83	83	83	81	81
80%	82	82	81	81	80	79
90%	81	81	79	80	78	78
100%	76	76	75	76	74	71
Mean	85	85	84	84	83	82

Table H1a4-373. Total Water Supplied to Water Budget Area 17 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	84	84	83	84	81	80
D	85	85	84	84	83	81
BN	85	85	84	84	85	83
AN	84	85	83	83	82	82
W	85	85	84	84	83	84
All	85	85	84	84	83	82

H1a4.6.25 Water Budget Areas 18 and 19 (Agricultural)

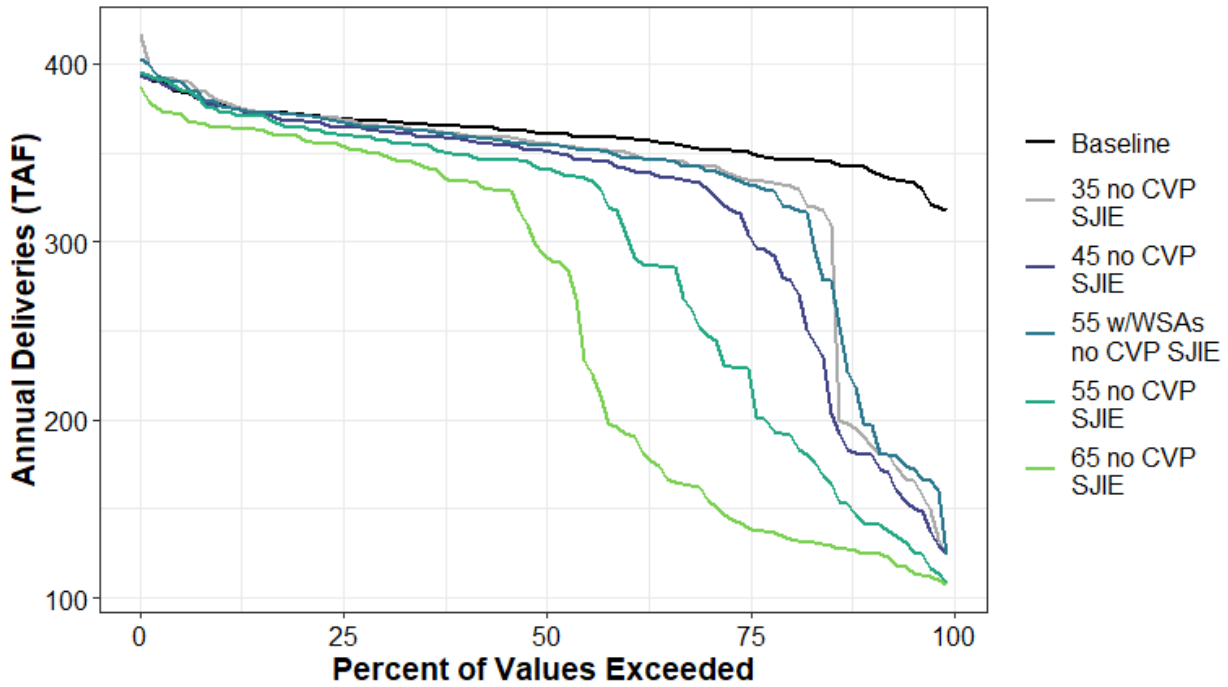

Figure H1a4-185. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-374. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	393	417	393	403	395	387
10%	377	380	376	377	373	365
20%	371	371	368	371	364	358
30%	368	365	362	365	357	349
40%	365	360	357	359	349	334
50%	361	355	351	354	341	293
60%	358	351	342	347	308	193
70%	352	342	331	341	249	158
80%	346	332	279	320	192	134
90%	341	190	181	198	142	125
100%	318	124	124	124	109	107
Mean	360	332	320	332	294	256

Table H1a4-375. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	364	195	178	206	154	147
D	367	363	328	353	246	145
BN	366	368	358	368	335	261
AN	356	358	358	357	356	349
W	350	350	350	350	352	353
All	360	332	320	332	294	256

H1a4.6.26Water Budget Areas 20 and 25 (Agricultural)

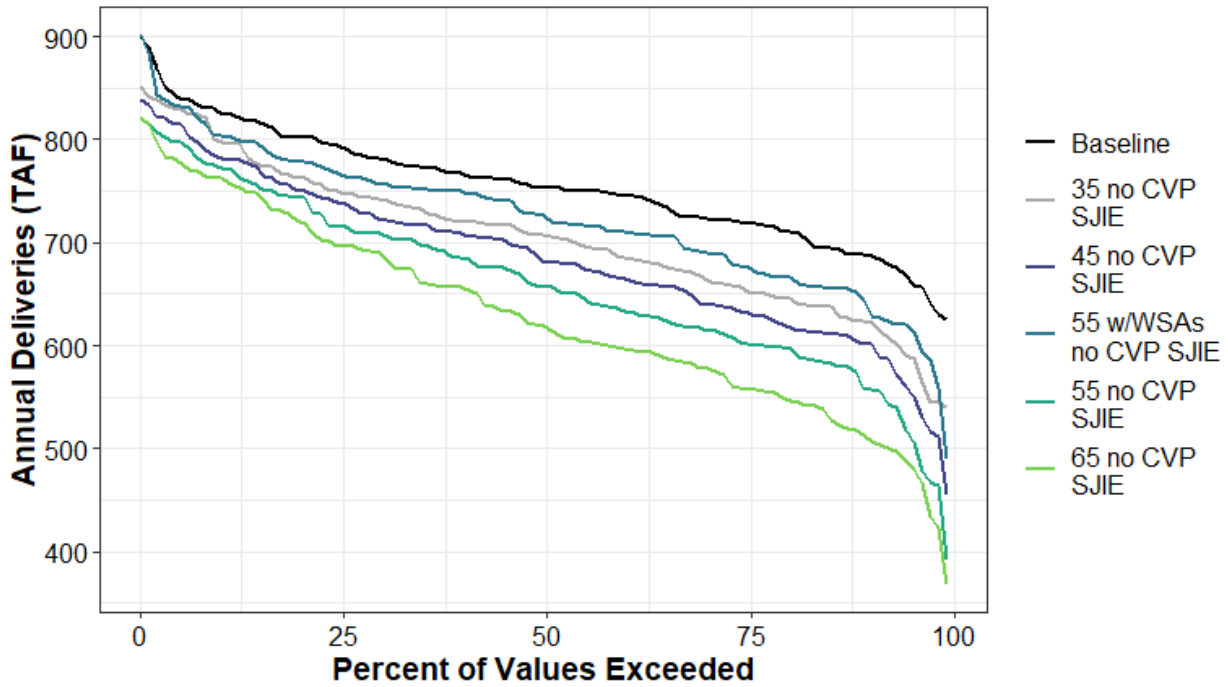

Figure H1a4-186. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-376. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	900	851	839	902	821	821
10%	826	799	782	803	773	763
20%	802	763	750	778	744	719
30%	781	742	722	757	707	687
40%	766	721	709	749	684	656
50%	754	708	681	726	657	618
60%	746	686	665	710	634	597
70%	723	665	641	690	616	578
80%	711	646	619	666	597	548
90%	688	623	601	641	557	512
100%	625	540	455	489	391	368
Mean	755	705	685	724	660	628

Table H1a4-377. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	794	717	700	760	677	653
D	777	708	680	740	640	601
BN	768	692	667	710	630	590
AN	738	703	680	715	657	602
W	718	705	695	704	685	669
All	755	705	685	724	660	628

H1a4.6.27Water Budget Areas 20 and 25 (Urban)

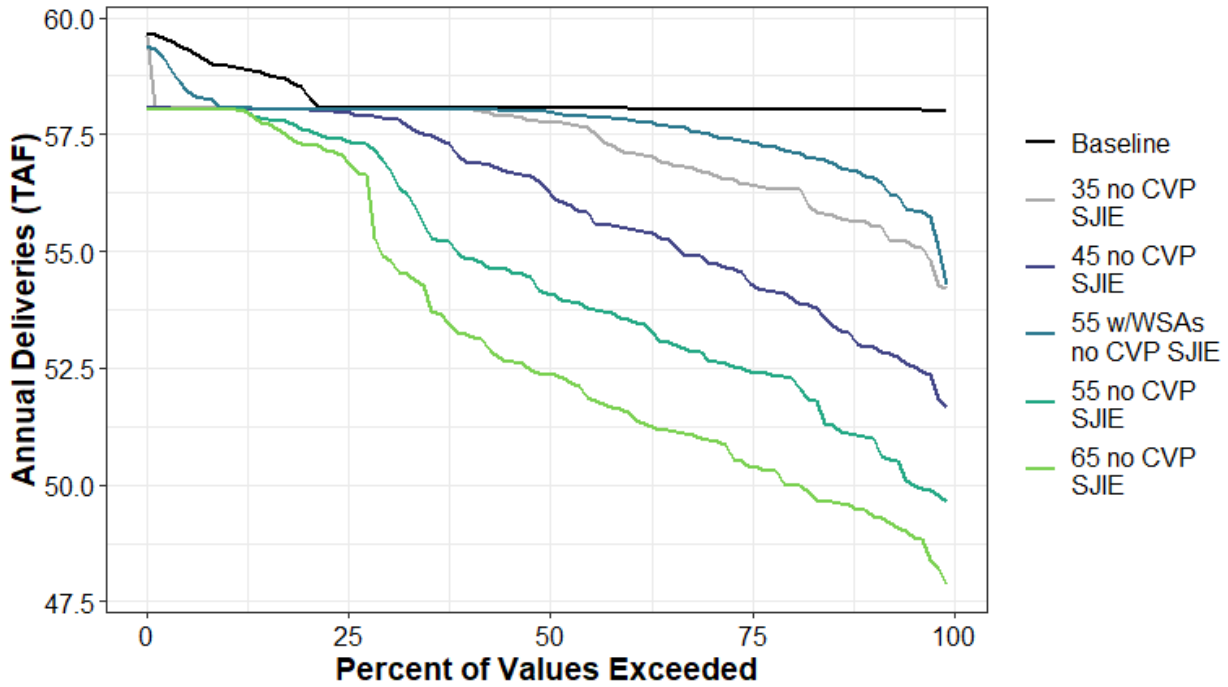

Figure H1a4-187. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Percent Exceedance Plot.

Table H1a4-378. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	60	60	58	59	58	58
10%	59	58	58	58	58	58
20%	58	58	58	58	58	57
30%	58	58	58	58	57	55
40%	58	58	57	58	55	53
50%	58	58	56	58	54	52
60%	58	57	55	58	54	52
70%	58	57	55	58	53	51
80%	58	56	54	57	52	50
90%	58	56	53	57	51	49
100%	58	54	52	54	50	48
Mean	58	57	56	58	54	53

Table H1a4-379. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	59	57	55	58	54	52
D	58	56	54	57	52	51
BN	58	57	55	57	53	51
AN	58	58	57	58	54	53
W	58	58	58	58	57	57
All	58	57	56	58	54	53

H1a4.6.28Water Budget Area 21 (Agricultural)

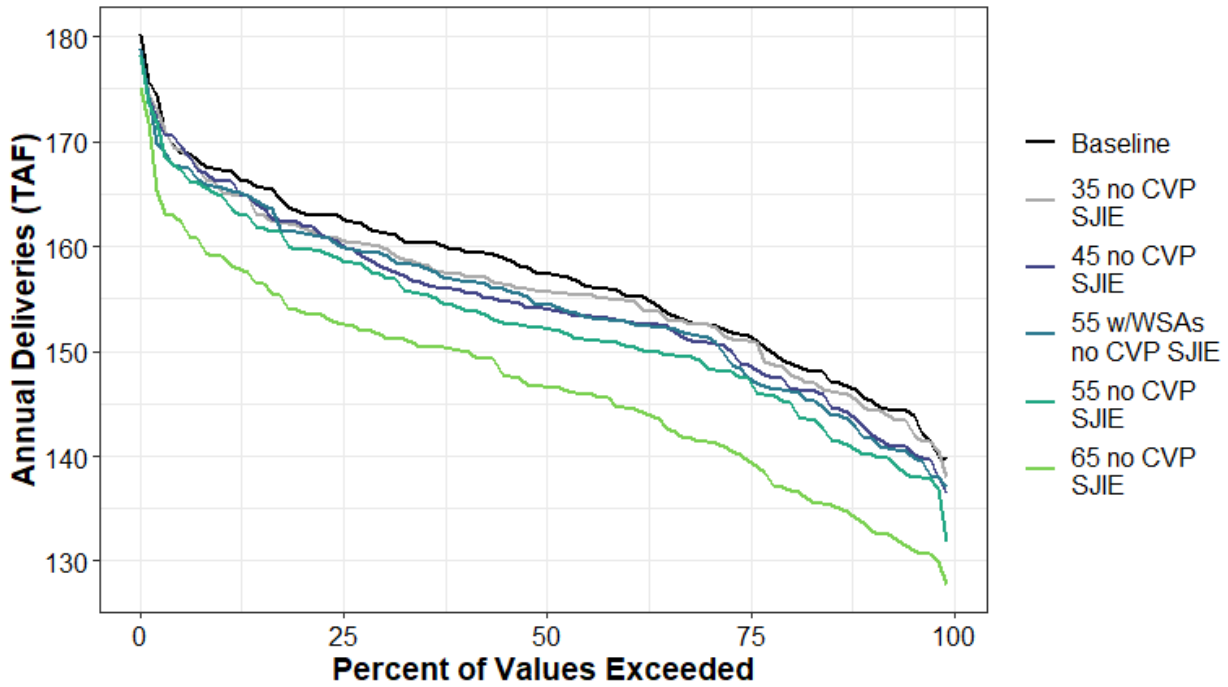

Figure H1a4-188. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-380. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	180	178	179	179	178	175
10%	167	165	166	166	165	159
20%	163	162	162	161	160	154
30%	161	160	158	159	157	151
40%	160	157	156	157	154	150
50%	157	156	154	154	152	147
60%	156	155	153	153	151	145
70%	153	153	151	151	149	141
80%	149	148	147	146	145	137
90%	145	145	143	142	140	134
100%	140	138	136	137	132	128
Mean	157	156	155	154	153	147

Table H1a4-381. Total Water Supplied to Water Budget Area 21 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	164	162	161	162	160	154
D	160	158	156	157	153	151
BN	158	157	156	156	153	147
AN	155	155	154	154	153	145
W	151	150	149	148	148	140
All	157	156	155	154	153	147

H1a4.6.29Water Budget Area 21 (Urban)

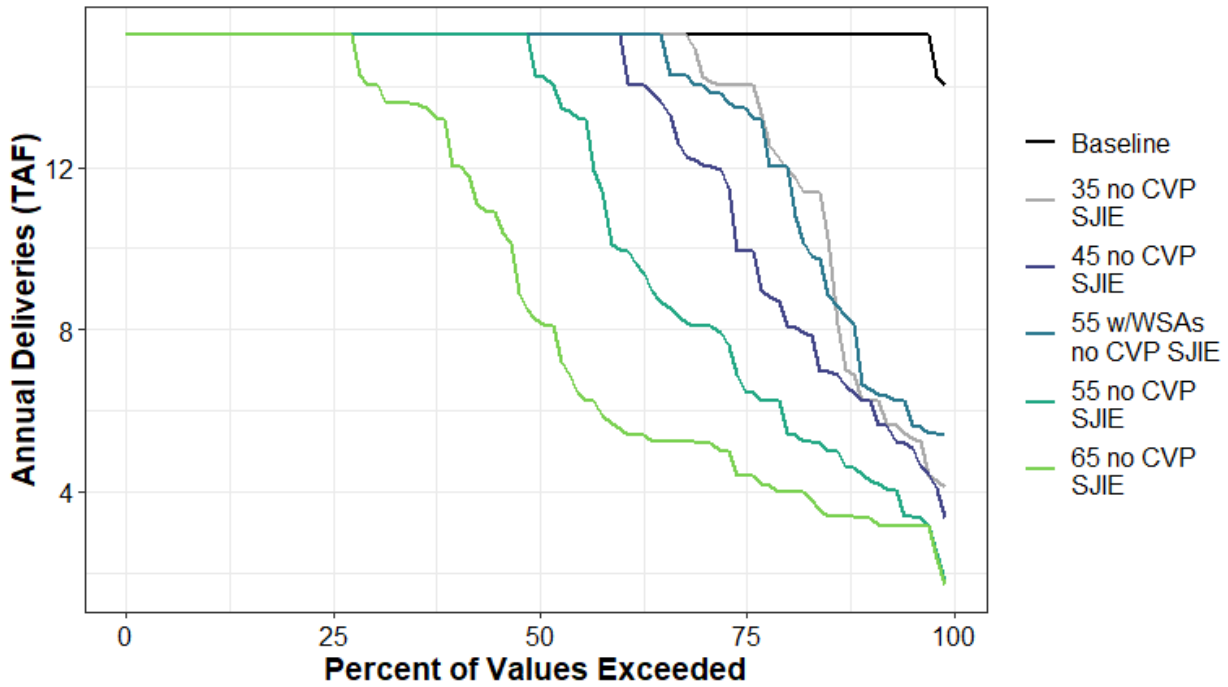

Figure H1a4-189. Total Water Supplied to Water Budget Area 21 (Urban) Annual Percent Exceedance Plot.

Table H1a4-382. Total Water Supplied to Water Budget Area 21 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	15.3	15.3	15.3	15.3	15.3	15.3
10%	15.3	15.3	15.3	15.3	15.3	15.3
20%	15.3	15.3	15.3	15.3	15.3	15.3
30%	15.3	15.3	15.3	15.3	15.3	14.1
40%	15.3	15.3	15.3	15.3	15.3	12
50%	15.3	15.3	15.3	15.3	14.3	8.3
60%	15.3	15.3	15.3	15.3	10	5.6
70%	15.3	14.5	12.1	14.1	8.1	5.2
80%	15.3	12.1	8.5	12	5.9	4
90%	15.3	6.2	6.2	6.6	4.4	3.4
100%	14.1	4.1	3.4	5.4	1.8	1.7
Mean	15.3	13.5	12.8	13.5	11.3	9.3

Table H1a4-383. Total Water Supplied to Water Budget Area 21 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	15.3	7	6.2	7.3	4.3	3.6
D	15.3	13.8	11.7	13.4	8.4	4.8
BN	15.2	15	14.1	15	12.4	7.8
AN	15.2	15.1	15	15	14.7	13.5
W	15.3	15.3	15.3	15.3	15.2	14.8
All	15.3	13.5	12.8	13.5	11.3	9.3

H1a4.6.30Water Budget Area 22 (Agricultural)

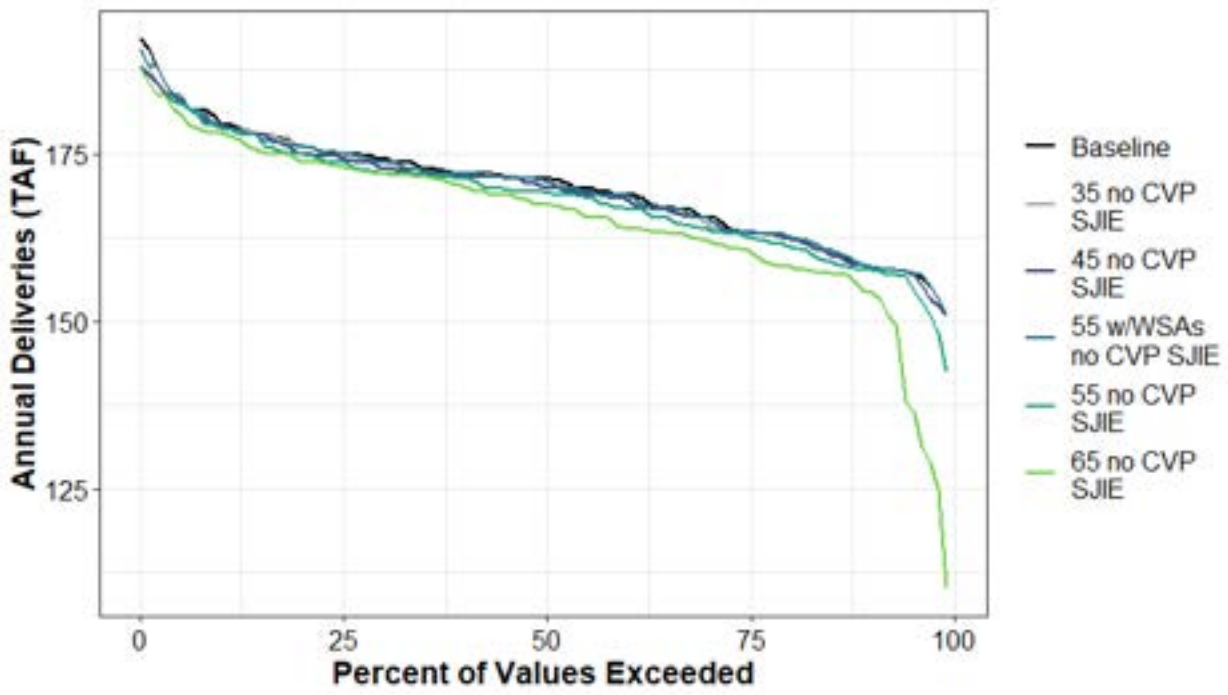

Figure H1a4-190. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-384. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	192	191	188	191	188	188
10%	180	179	179	179	179	178
20%	176	176	175	176	175	174
30%	174	174	173	174	172	172
40%	172	172	172	172	171	170
50%	171	171	170	171	169	167
60%	169	168	168	169	167	164
70%	166	165	165	165	164	162
80%	162	162	162	163	161	158
90%	158	158	158	158	158	154
100%	151	151	151	151	142	110
Mean	170	170	169	170	168	165

Table H1a4-385. Total Water Supplied to Water Budget Area 22 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	178	175	173	176	167	154
D	173	173	173	173	173	171
BN	171	172	172	172	172	169
AN	167	167	167	167	167	167
W	164	164	164	164	164	164
All	170	170	169	170	168	165

H1a4.6.31 Water Budget Area 23 (Agricultural)

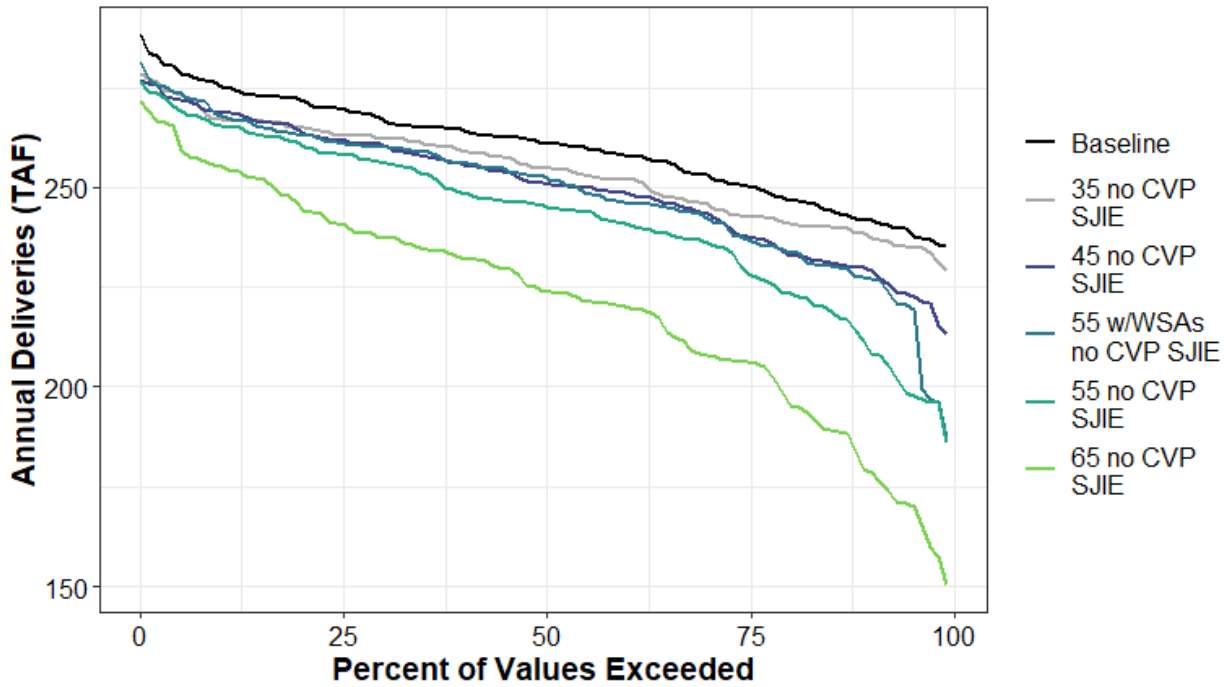

Figure H1a4-191. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-386. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	288	278	277	281	276	272
10%	275	267	269	268	266	255
20%	272	265	264	263	261	245
30%	267	262	261	260	256	237
40%	264	259	256	256	249	232
50%	261	255	251	253	245	224
60%	258	252	249	246	241	220
70%	253	246	244	243	236	208
80%	247	241	234	234	223	197
90%	242	238	230	227	211	179
100%	235	229	213	187	186	150
Mean	260	254	250	249	242	222

Table H1a4-387. Total Water Supplied to Water Budget Area 23 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	270	261	256	259	244	219
D	265	258	255	255	246	221
BN	263	255	249	250	241	217
AN	256	251	246	241	239	221
W	251	249	246	241	240	227
All	260	254	250	249	242	222

H1a4.6.32 Water Budget Area 24 (Agricultural)

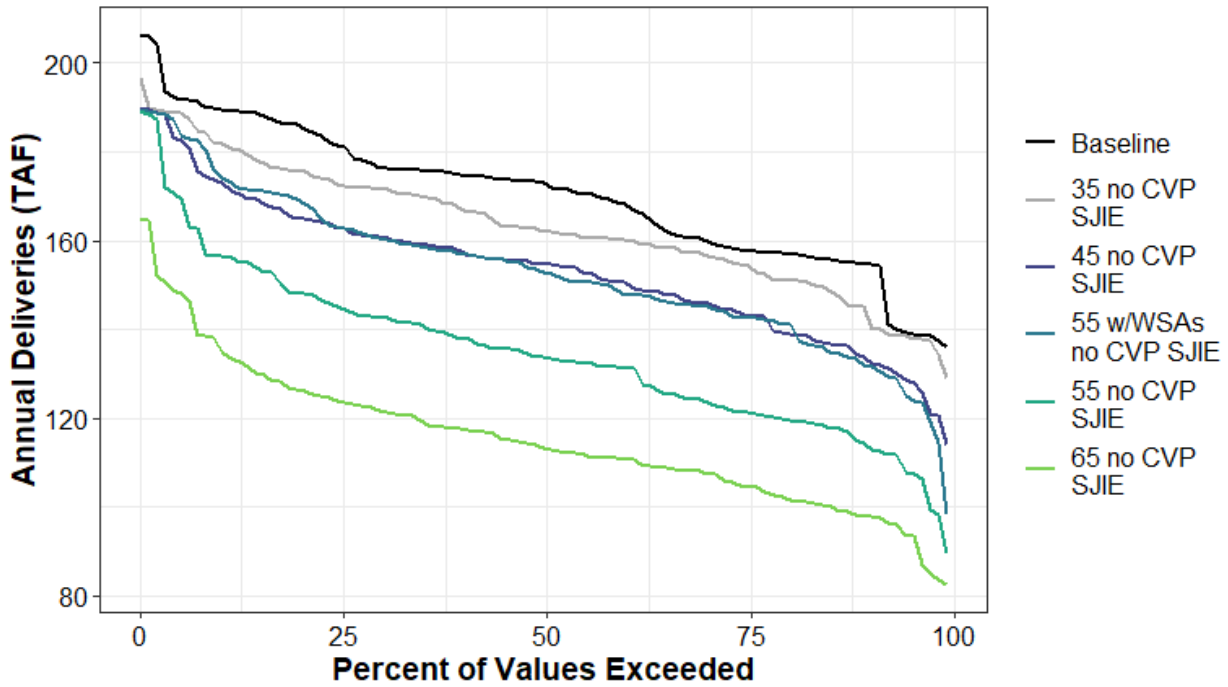

Figure H1a4-192. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-388. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	207	196	189	190	189	165
10%	190	182	173	174	156	135
20%	185	175	165	169	148	126
30%	176	172	161	160	143	122
40%	175	167	158	157	138	118
50%	173	162	155	153	134	113
60%	168	160	151	148	131	111
70%	160	157	146	145	124	108
80%	157	151	139	141	120	102
90%	155	144	133	132	114	98
100%	136	129	114	98	89	82
Mean	170	163	154	153	135	115

Table H1a4-389. Total Water Supplied to Water Budget Area 24 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	181	159	148	158	135	126
D	177	163	149	156	130	118
BN	173	167	153	153	131	113
AN	165	166	157	154	135	114
W	161	161	159	148	141	110
All	170	163	154	153	135	115

H1a4.6.33 Water Budget Area 24 (Urban)

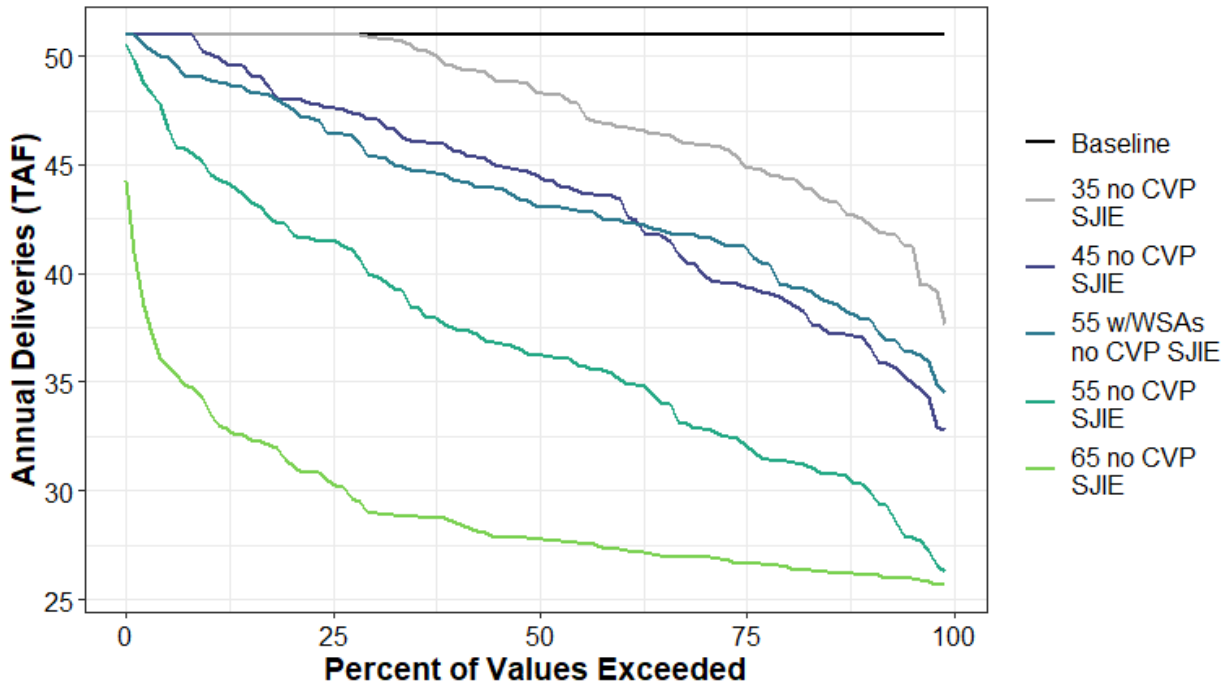

Figure H1a4-193. Total Water Supplied to Water Budget Area 24 (Urban) Annual Percent Exceedance Plot.

Table H1a4-390. Total Water Supplied to Water Budget Area 24 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	51	51	51	51	51	44
10%	51	51	50	49	45	34
20%	51	51	48	48	42	31
30%	51	51	47	45	40	29
40%	51	50	46	44	37	29
50%	51	48	45	43	36	28
60%	51	47	43	42	35	27
70%	51	46	40	42	33	27
80%	51	44	39	39	31	27
90%	51	42	37	38	30	26
100%	51	38	33	34	26	26
Mean	51	48	44	43	37	29

Table H1a4-391. Total Water Supplied to Water Budget Area 24 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	51	42	37	40	32	29
D	51	46	41	42	34	28
BN	51	49	44	45	36	28
AN	51	50	46	45	38	29
W	51	50	48	45	42	30
All	51	48	44	43	37	29

H1a4.6.34Water Budget Area 26 (Agricultural)

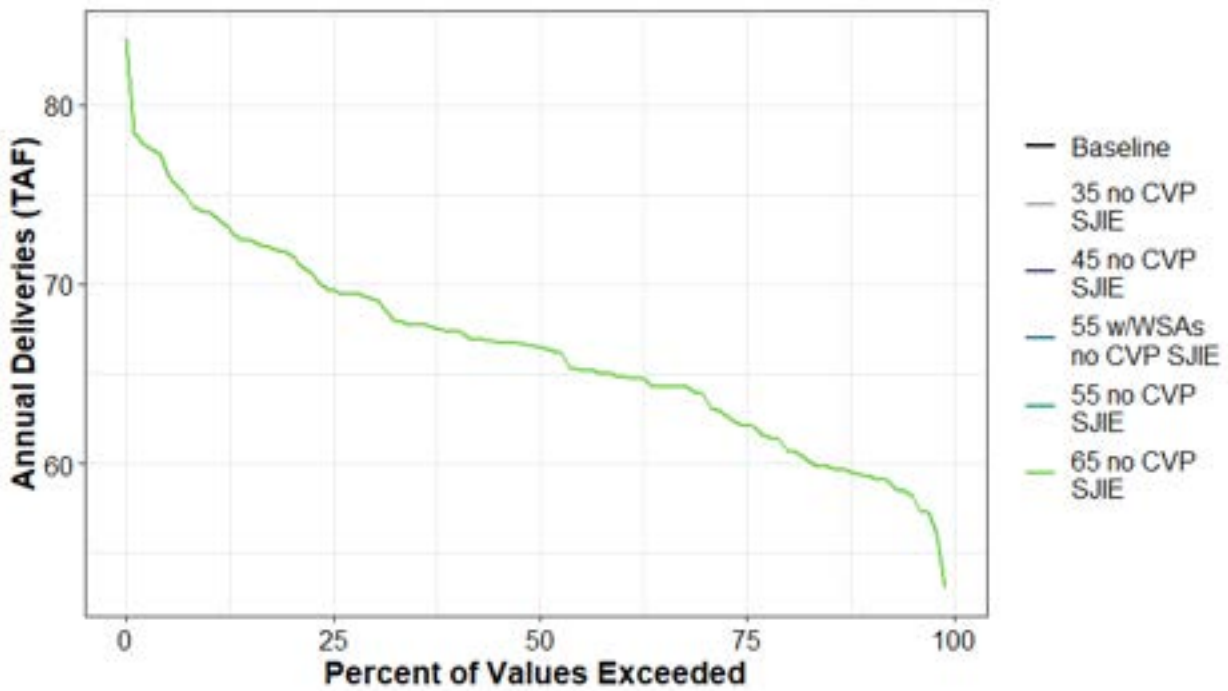

Figure H1a4-194. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-392. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	84	84	84	84	84	84
10%	74	74	74	74	74	74
20%	72	72	72	72	72	72
30%	69	69	69	69	69	69
40%	67	67	67	67	67	67
50%	67	67	67	67	67	67
60%	65	65	65	65	65	65
70%	64	64	64	64	64	64
80%	61	61	61	61	61	61
90%	59	59	59	59	59	59
100%	53	53	53	53	53	53
Mean	66	66	66	66	66	66

Table H1a4-393. Total Water Supplied to Water Budget Area 26 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	73	73	73	73	73	73
D	68	68	68	68	68	68
BN	67	67	67	67	67	67
AN	65	65	65	65	65	65
W	63	63	63	63	63	63
All	66	66	66	66	66	66

H1a4.6.35 Water Budget Area 26 (Urban)

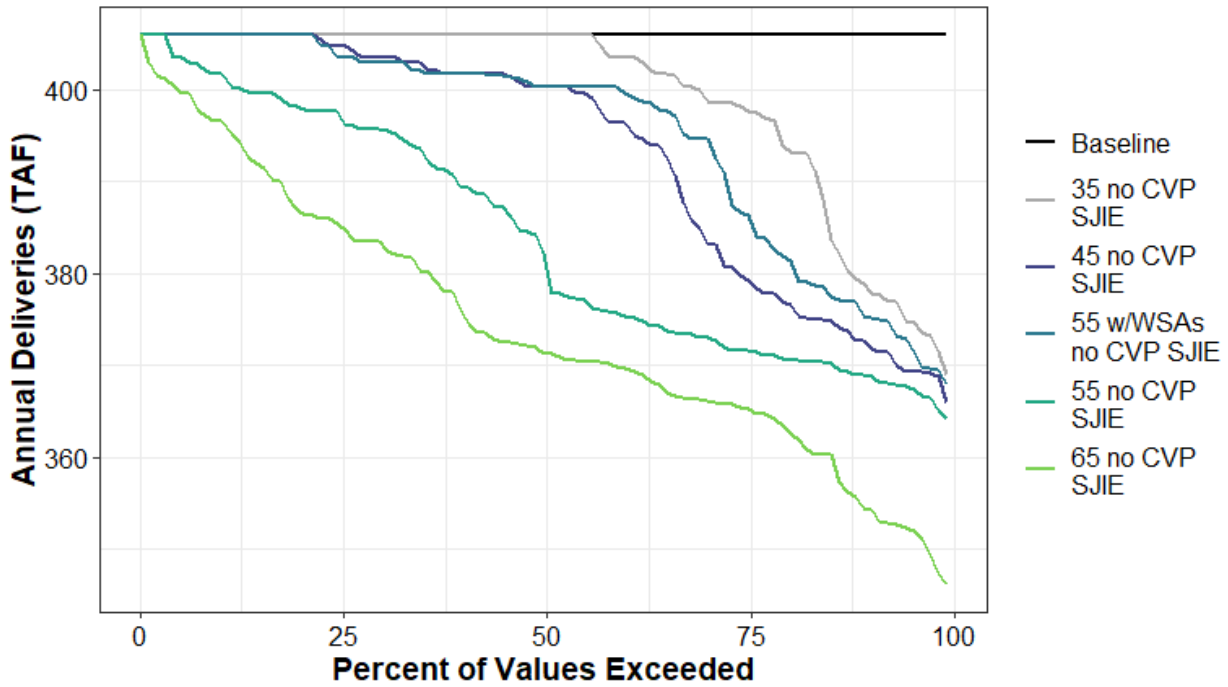

Figure H1a4-195. Total Water Supplied to Water Budget Area 26 (Urban) Annual Percent Exceedance Plot.

Table H1a4-394. Total Water Supplied to Water Budget Area 26 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	406	406	406	406	406	406
10%	406	406	406	406	402	397
20%	406	406	406	406	398	387
30%	406	406	403	403	396	383
40%	406	406	402	402	389	376
50%	406	406	400	400	382	371
60%	406	403	396	400	375	370
70%	406	399	384	395	373	366
80%	406	394	377	382	371	363
90%	406	379	372	375	369	354
100%	406	369	366	368	364	346
Mean	406	399	393	395	384	374

Table H1a4-395. Total Water Supplied to Water Budget Area 26 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	406	379	373	375	371	358
D	406	399	384	390	371	365
BN	406	405	398	401	380	368
AN	406	405	404	402	392	379
W	406	405	404	404	400	392
All	406	399	393	395	384	374

H1a4.6.36Water Budget Area 50 (Agricultural)

The values in the figure and tables that follow summarize agricultural diversions to Delta islands as represented by the Delta Channel Depletions model.

Figure H1a4-196. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Percent Exceedance Plot. Includes agricultural diversions to Delta islands as represented by the Delta Channel Depletions model.

Table H1a4-396. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,273	1,273	1,273	1,273	1,273	1,273
10%	1,202	1,202	1,202	1,202	1,202	1,202
20%	1,180	1,180	1,180	1,180	1,180	1,180
30%	1,154	1,154	1,154	1,154	1,154	1,154
40%	1,135	1,135	1,135	1,135	1,135	1,135
50%	1,117	1,117	1,117	1,117	1,117	1,117
60%	1,089	1,089	1,089	1,089	1,089	1,089
70%	1,070	1,070	1,070	1,070	1,070	1,070
80%	1,043	1,043	1,043	1,043	1,043	1,043
90%	1,013	1,013	1,013	1,013	1,013	1,013
100%	892	892	892	892	892	892
Mean	1,109	1,109	1,109	1,109	1,109	1,109

Table H1a4-397. Surface Water Supplied to Water Budget Area 50 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,177	1,177	1,177	1,177	1,177	1,177
D	1,148	1,148	1,148	1,148	1,148	1,148
BN	1,129	1,129	1,129	1,129	1,129	1,129
AN	1,077	1,077	1,077	1,077	1,077	1,077
W	1,045	1,045	1,045	1,045	1,045	1,045
All	1,109	1,109	1,109	1,109	1,109	1,109

H1a4.6.37 Delta (Urban)

The values in the figure and tables that follow summarize diversions to the City of Antioch (demand site U_ANTOC_NU).

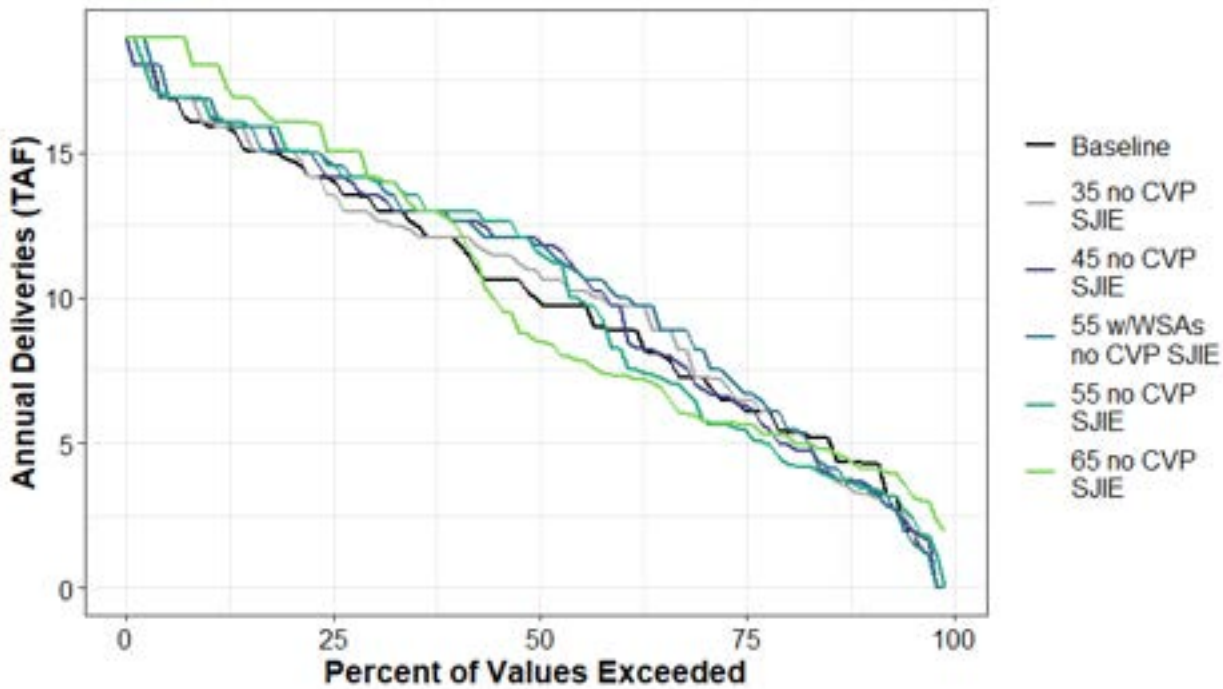

Figure H1a4-197. Surface Water Supplied to Delta (Urban) Annual Percent Exceedance Plot.

Table H1a4-398. Surface Water Supplied to Delta (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	19	19	19	19	19	19
10%	15.9	16.1	16.4	16.8	16.4	18
20%	14.8	15.1	15.1	15.1	15.1	16.1
30%	13.3	12.8	13.6	14.1	14.1	14.2
40%	12	12.1	12.6	12.6	13	12.6
50%	10	11	12.1	11.8	11.6	8.5
60%	8.9	9.7	9.7	10.1	8.2	7.3
70%	7.2	7.3	6.9	8.2	6	5.9
80%	5.4	5.9	5	5.8	4.4	5.2
90%	4.3	3.3	3.6	3.5	3.4	4.1
100%	0	0	0	0	0	2
Mean	10.1	10.2	10.4	10.7	10.3	10.3

Table H1a4-399. Surface Water Supplied to Delta (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	3.2	2.7	3.2	2.8	3.4	4.6
D	7	7.7	7.3	7.8	6.4	6.3
BN	9.7	10.5	10.5	11.1	10.1	7.5
AN	12.2	11.6	12.5	12.9	13	13.2
W	15.3	15.5	15.7	15.8	15.8	16.8
All	10.1	10.2	10.4	10.7	10.3	10.3

H1a4.6.38Water Budget Area 60N (Agricultural)

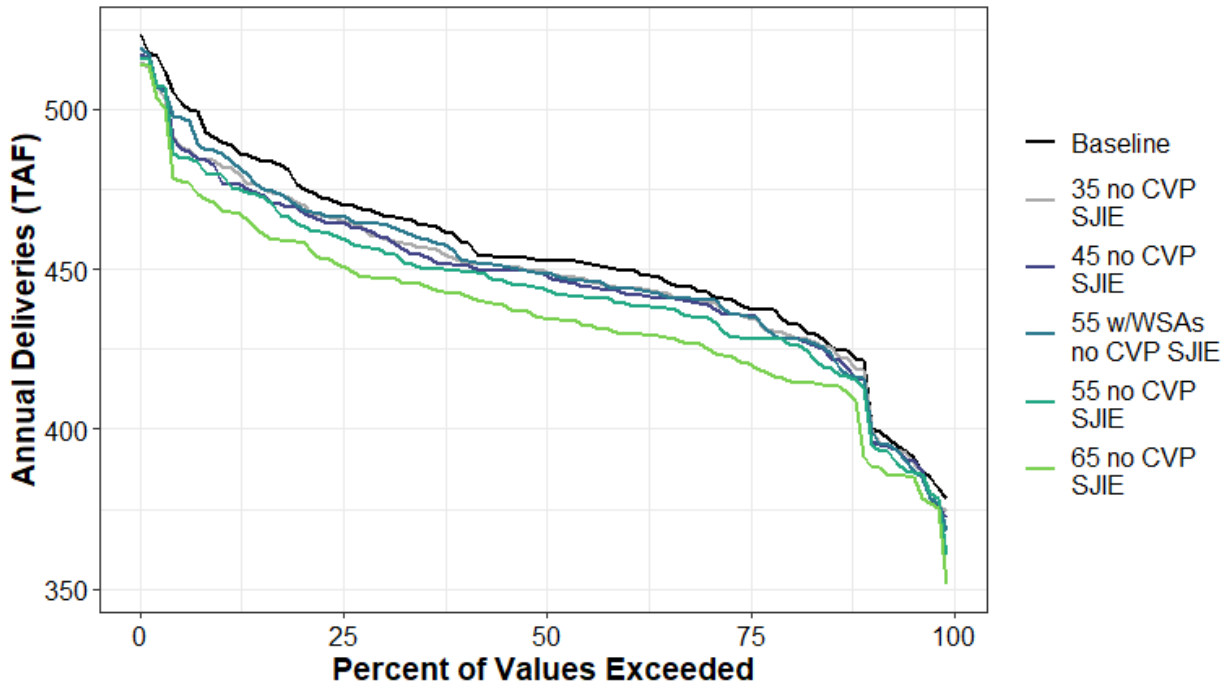

Figure H1a4-198. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-400. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	523	515	517	519	516	514
10%	490	483	478	486	480	469
20%	476	470	468	469	464	458
30%	467	460	460	464	456	447
40%	459	452	451	453	449	442
50%	453	450	449	449	444	435
60%	450	444	443	444	439	430
70%	443	440	439	440	435	426
80%	434	430	428	428	427	416
90%	417	415	412	412	409	391
100%	378	374	372	368	360	351
Mean	453	448	447	449	444	436

Table H1a4-401. Total Water Supplied to Water Budget Area 60N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	476	464	461	470	453	440
D	465	457	457	460	454	444
BN	450	446	444	445	442	436
AN	442	439	437	437	435	429
W	439	438	437	436	436	430
All	453	448	447	449	444	436

H1a4.6.39 Water Budget Area 60N (Urban)

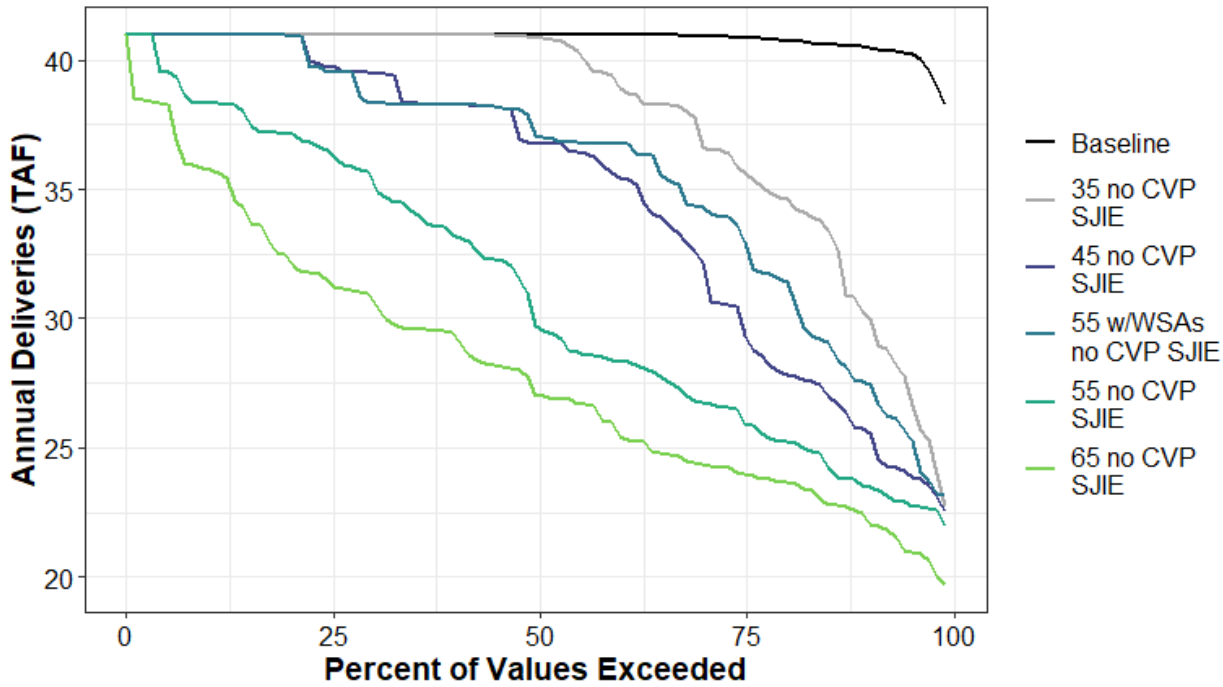

Figure H1a4-199. Total Water Supplied to Water Budget Area 60N (Urban) Annual Percent Exceedance Plot.

Table H1a4-402. Total Water Supplied to Water Budget Area 60N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	41	41	41	41	41	41
10%	41	41	41	41	38	36
20%	41	41	41	41	37	32
30%	41	41	39	38	35	31
40%	41	41	38	38	33	29
50%	41	41	37	37	30	27
60%	41	39	35	37	28	26
70%	41	37	32	34	27	24
80%	41	35	28	31	25	24
90%	41	30	26	28	24	22
100%	38	23	23	23	22	20
Mean	41	38	35	36	31	28

Table H1a4-403. Total Water Supplied to Water Budget Area 60N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	41	29	26	28	24	23
D	41	37	32	33	26	25
BN	41	40	37	38	30	27
AN	41	40	39	38	34	29
W	41	41	40	39	38	34
All	41	38	35	36	31	28

H1a4.6.40Water Budget Area 60S (Agricultural)

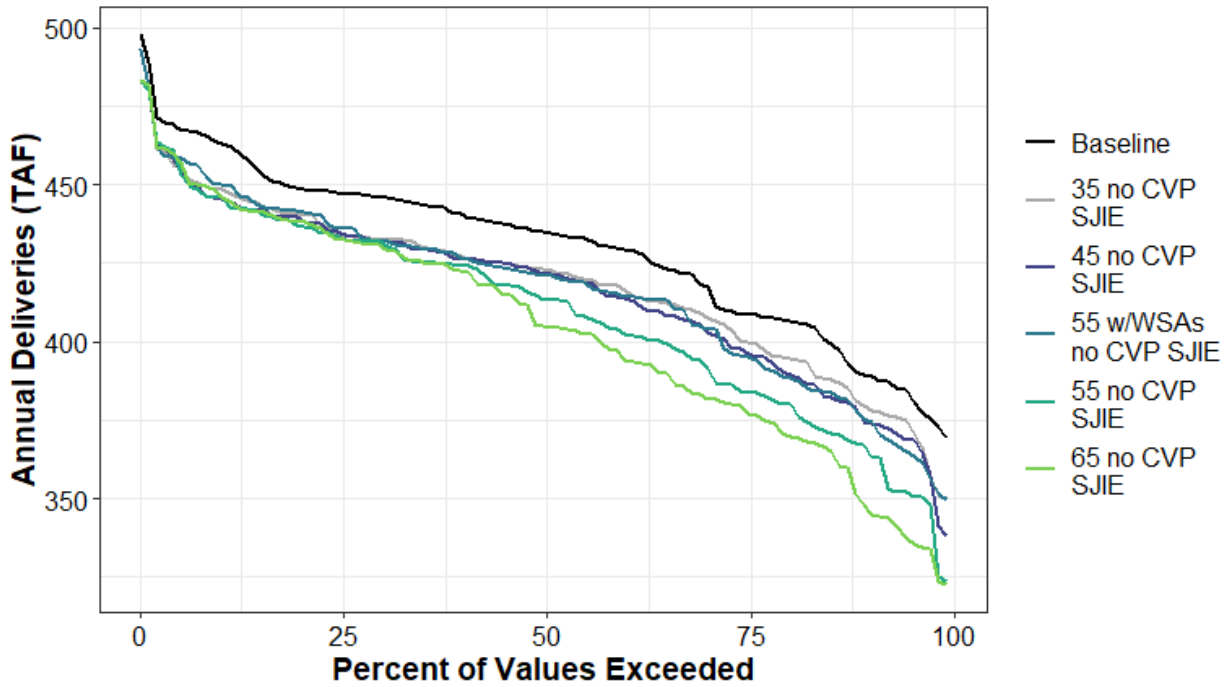

Figure H1a4-200. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-404. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	498	483	483	493	483	483
10%	463	449	446	450	446	446
20%	449	441	439	441	437	438
30%	446	433	432	432	431	430
40%	440	427	426	427	424	423
50%	435	423	422	421	413	405
60%	430	417	414	415	403	395
70%	418	408	404	404	393	382
80%	407	395	390	389	380	371
90%	390	380	374	375	366	347
100%	369	350	338	350	324	323
Mean	430	418	416	417	409	404

Table H1a4-405. Total Water Supplied to Water Budget Area 60S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	445	439	439	439	439	440
D	442	429	428	433	428	427
BN	437	418	416	417	411	410
AN	425	409	405	408	394	391
W	411	403	400	396	384	370
All	430	418	416	417	409	404

H1a4.6.41 Water Budget Area 60S (Urban)

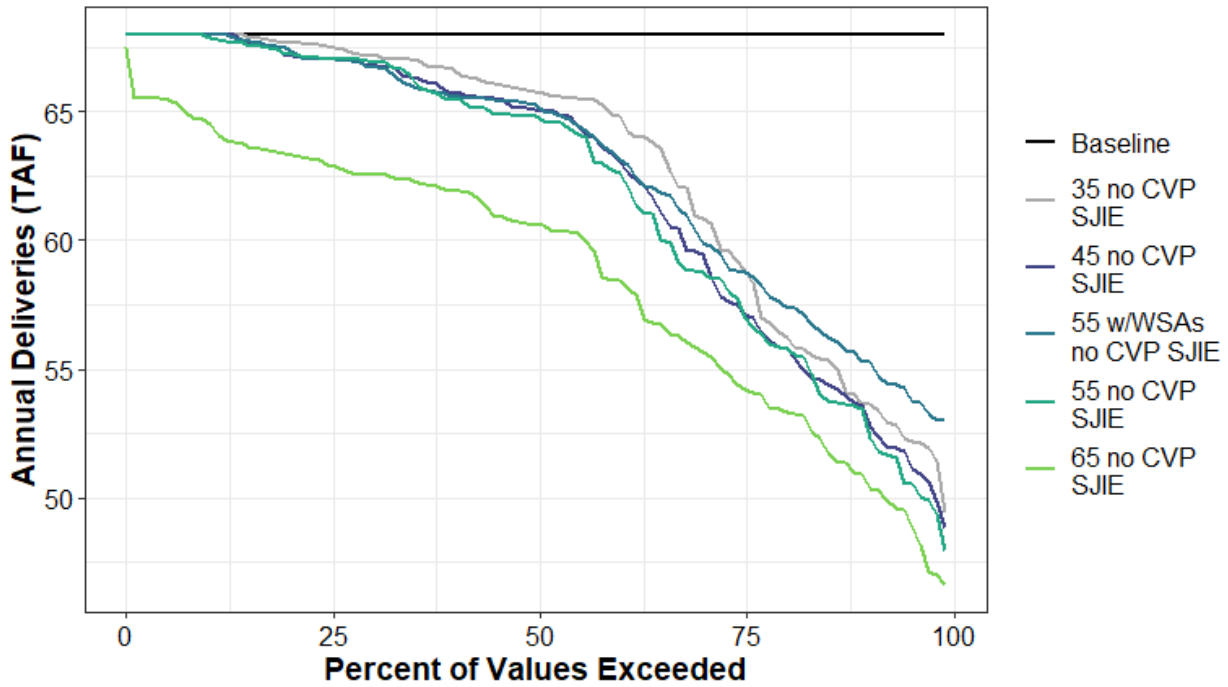

Figure H1a4-201. Total Water Supplied to Water Budget Area 60S (Urban) Annual Percent Exceedance Plot.

Table H1a4-406. Total Water Supplied to Water Budget Area 60S (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	68	68	68	68	68	68
10%	68	68	68	68	68	65
20%	68	68	67	67	67	63
30%	68	67	67	67	67	63
40%	68	67	66	66	65	62
50%	68	66	65	65	65	61
60%	68	65	63	63	63	58
70%	68	61	60	60	59	56
80%	68	56	56	58	56	53
90%	68	54	53	55	53	51
100%	68	49	49	53	48	47
Mean	68	63	62	63	62	59

Table H1a4-407. Total Water Supplied to Water Budget Area 60S (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	68	54	54	56	54	53
D	68	61	59	59	59	56
BN	68	65	64	65	62	58
AN	68	67	66	67	66	62
W	68	67	67	67	66	63
All	68	63	62	63	62	59

H1a4.6.42 Water Budget Area 61N (Agricultural)

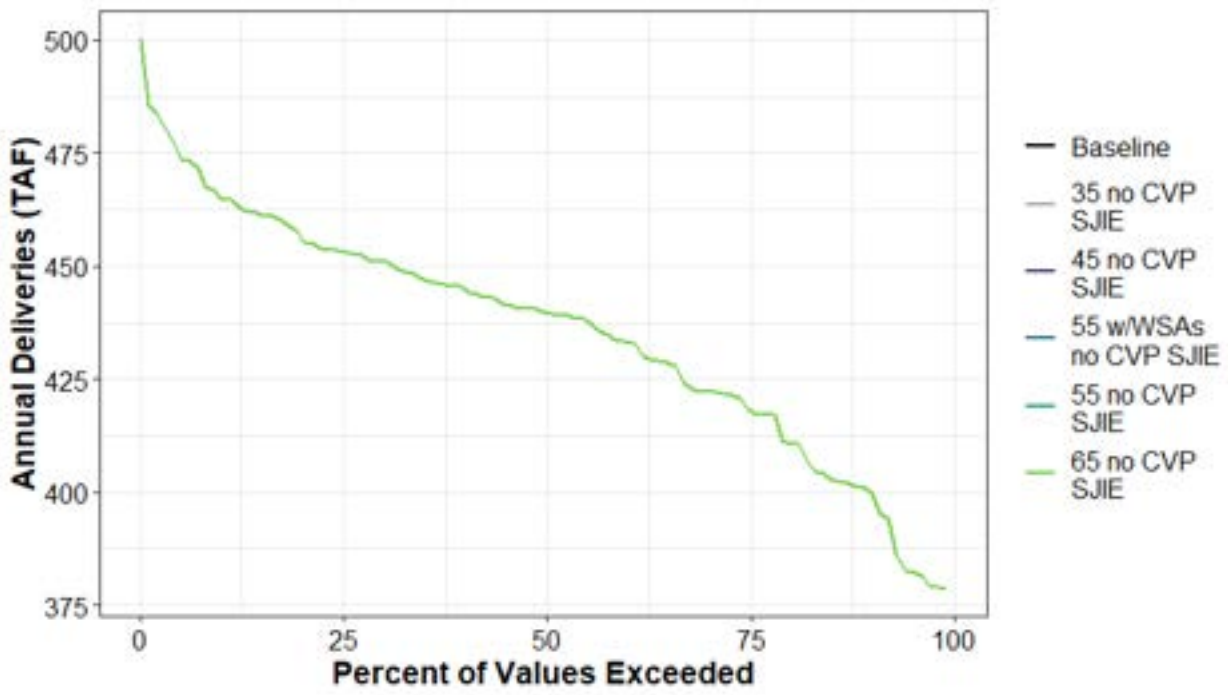

Figure H1a4-202. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-408. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	500	500	500	500	500	500
10%	465	465	465	465	465	465
20%	456	456	456	456	456	456
30%	451	451	451	451	451	451
40%	445	445	445	445	445	445
50%	440	440	440	440	440	440
60%	433	433	433	433	433	433
70%	422	422	422	422	422	422
80%	411	411	411	411	411	411
90%	401	401	401	401	401	401
100%	379	379	379	379	379	379
Mean	436	436	436	436	436	436

Table H1a4-409. Total Water Supplied to Water Budget Area 61N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	453	453	453	453	453	453
D	452	452	452	452	452	452
BN	437	437	437	437	437	437
AN	424	424	424	424	424	424
W	419	419	419	419	419	419
All	436	436	436	436	436	436

H1a4.6.43 Upper Watershed and Foothill (Agricultural)

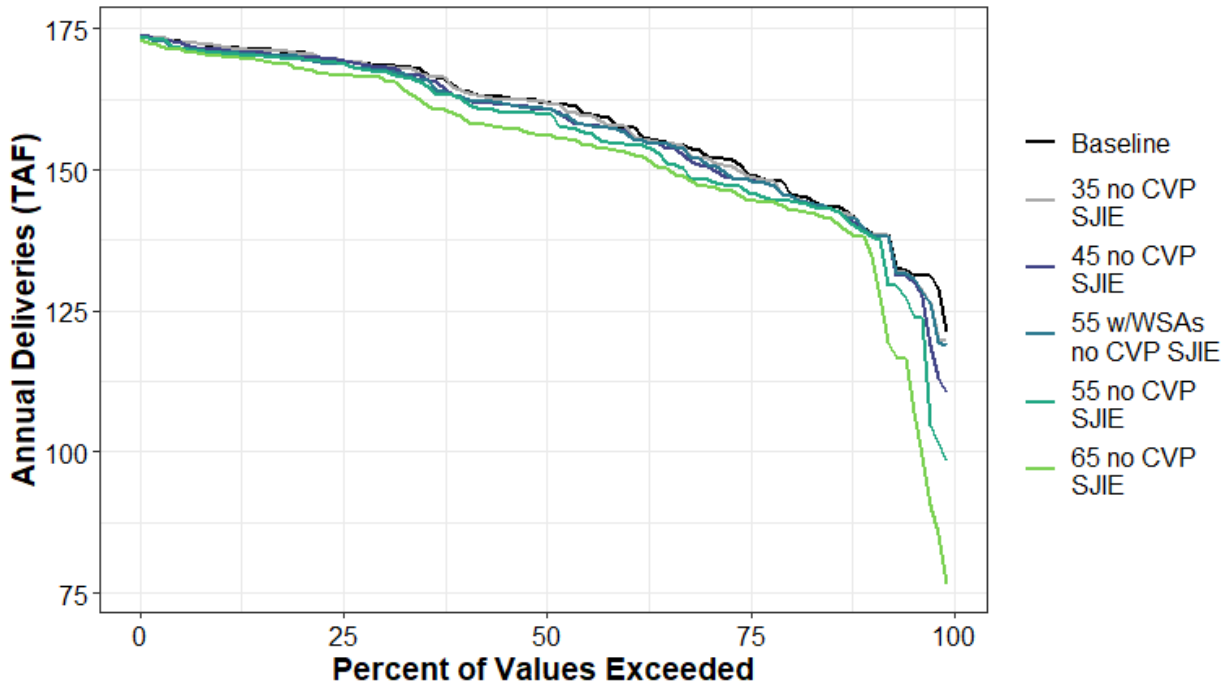

Figure H1a4-203. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-410. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	174	174	174	174	174	173
10%	172	172	171	171	171	170
20%	171	171	170	170	170	168
30%	169	168	168	168	167	166
40%	164	164	163	163	162	159
50%	162	162	161	161	160	156
60%	158	158	157	157	155	153
70%	153	152	151	151	148	147
80%	147	146	146	146	145	143
90%	139	139	139	139	139	137
100%	121	120	110	119	98	76
Mean	158	158	157	157	156	153

Table H1a4-411. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	139	138	136	138	133	125
D	150	150	149	150	148	145
BN	160	160	158	159	156	154
AN	165	164	164	163	163	160
W	171	171	171	170	170	169
All	158	158	157	157	156	153

H1a4.6.44 Upper Watershed and Foothill (Urban)

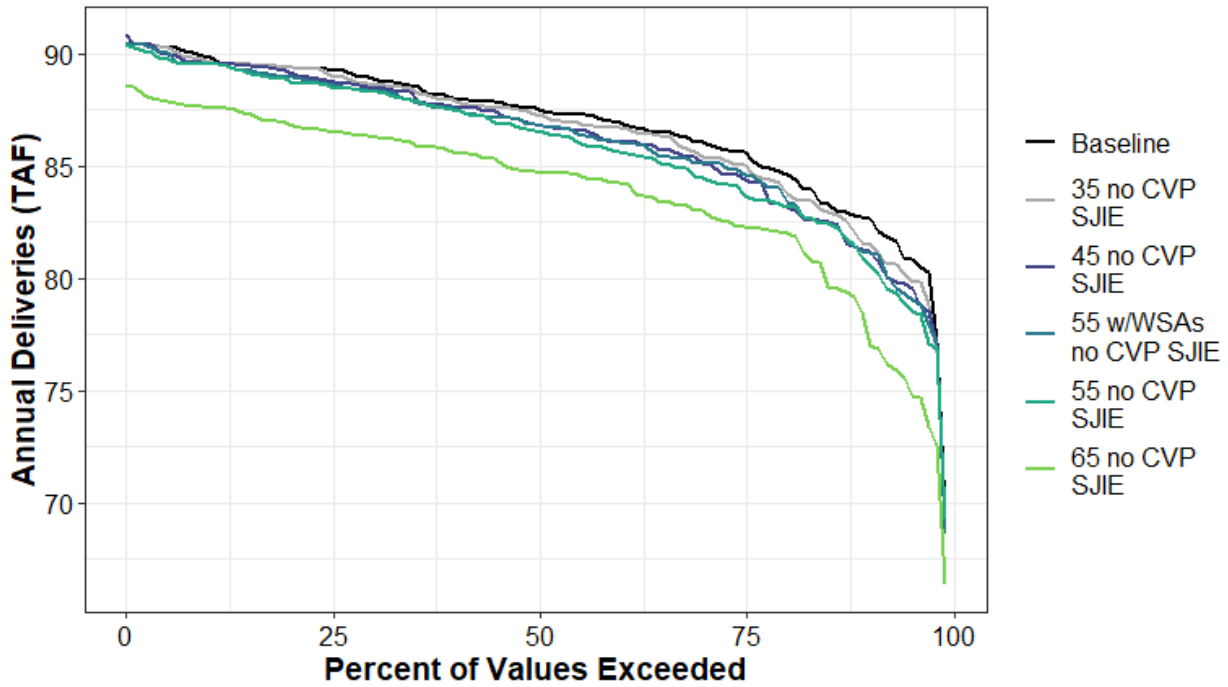

Figure H1a4-204. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Percent Exceedance Plot.

Table H1a4-412. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	91	91	91	90	90	89
10%	90	90	90	90	90	88
20%	89	89	89	89	89	87
30%	89	89	89	88	88	86
40%	88	88	88	88	88	86
50%	88	87	87	87	87	85
60%	87	87	86	86	86	84
70%	86	86	85	85	84	83
80%	85	84	83	84	83	82
90%	83	82	81	81	81	78
100%	70	69	69	69	69	66
Mean	87	86	86	86	86	84

Table H1a4-413. Surface Water Supplied to Upper Watershed and Foothill (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	81	81	80	80	80	77
D	86	85	85	85	84	83
BN	88	87	87	87	86	85
AN	88	88	88	88	88	86
W	89	89	89	89	89	87
All	87	86	86	86	86	84

H1a4.6.45 San Francisco Bay Area (Agricultural)

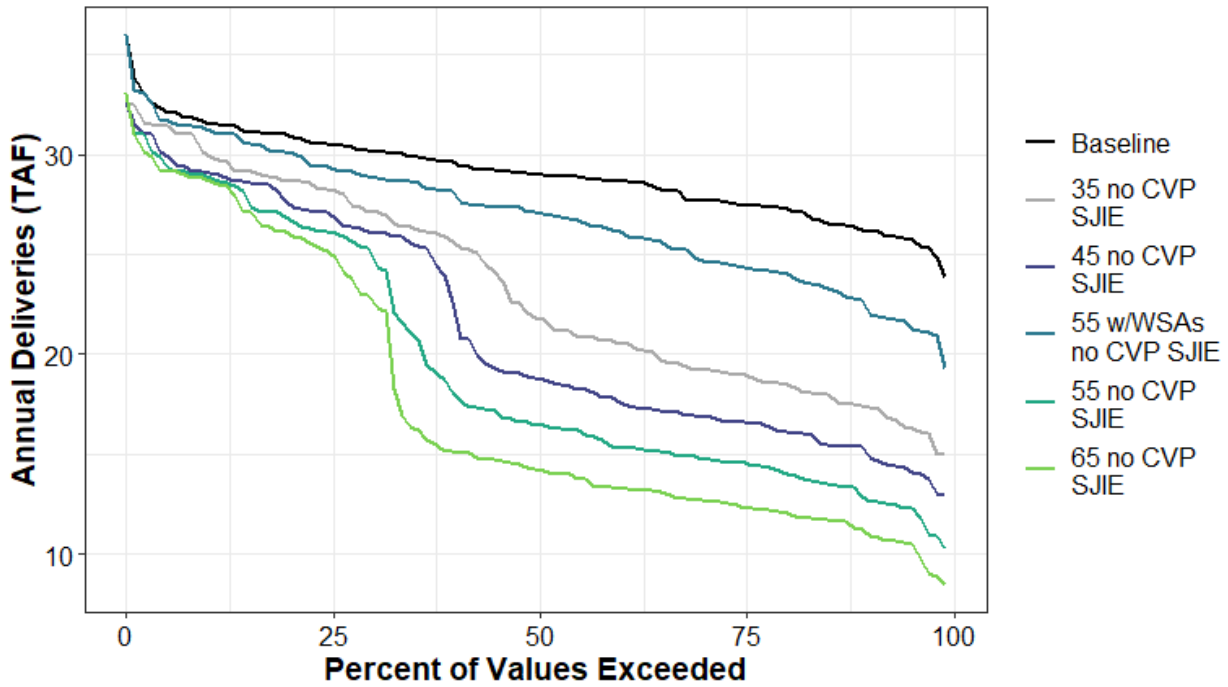

Figure H1a4-205. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-414. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	36	33	33	36	33	33
10%	32	30	29	31	29	29
20%	31	29	27	30	27	26
30%	30	27	26	29	25	23
40%	30	26	22	28	18	15
50%	29	22	19	27	16	14
60%	29	21	18	26	15	13
70%	28	19	17	25	15	13
80%	27	19	16	24	14	12
90%	26	17	15	23	13	11
100%	24	15	13	19	10	8
Mean	29	23	21	27	19	18

Table H1a4-415. Total Water Supplied to San Francisco Bay Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	31	22	19	28	17	15
D	30	22	20	29	17	15
BN	29	22	20	26	17	15
AN	28	23	20	26	18	16
W	27	26	25	26	24	23
All	29	23	21	27	19	18

H1a4.6.46San Francisco Bay Area (Urban)

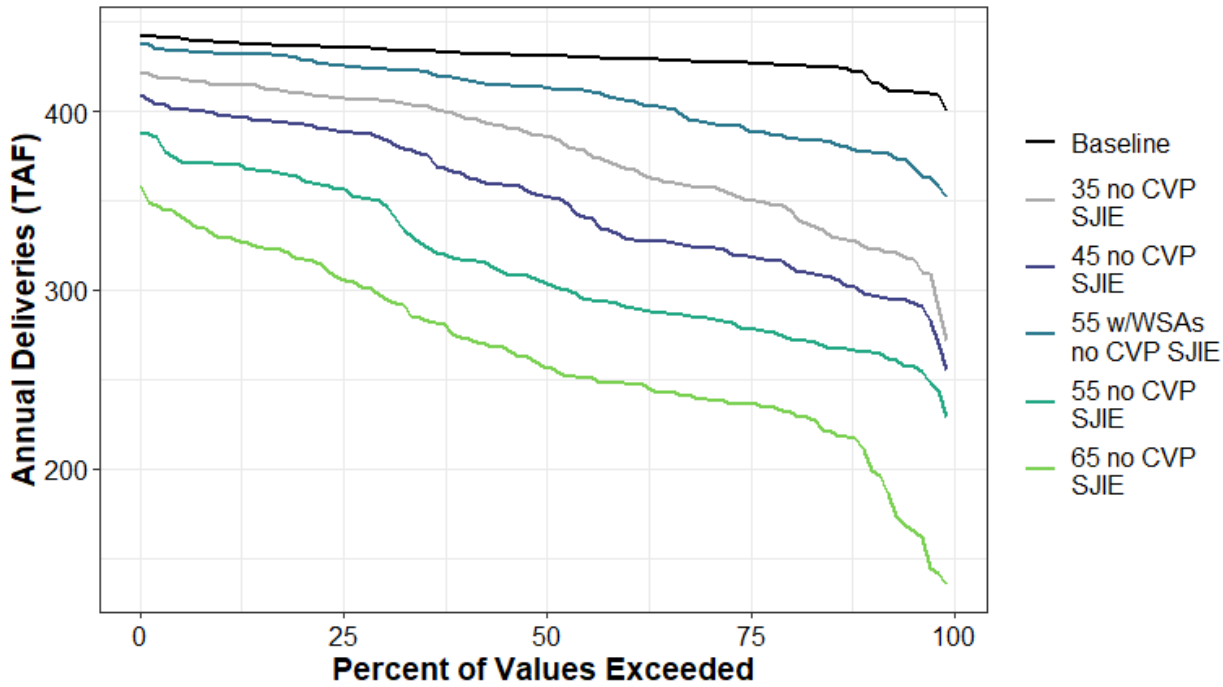

Figure H1a4-206. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Percent Exceedance Plot.

Table H1a4-416. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	443	422	409	438	388	359
10%	439	415	398	432	370	330
20%	436	410	393	429	362	317
30%	435	406	385	424	348	296
40%	433	397	365	418	317	273
50%	431	386	352	413	304	257
60%	429	369	329	406	291	248
70%	428	358	324	394	284	239
80%	426	346	314	386	274	232
90%	421	324	298	377	265	208
100%	400	272	255	351	229	135
Mean	430	377	350	408	313	264

Table H1a4-417. Surface Water Supplied to San Francisco Bay Area (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	420	321	298	390	272	219
D	432	358	323	392	282	240
BN	432	378	344	406	296	241
AN	432	399	370	420	325	269
W	432	410	393	426	362	320
All	430	377	350	408	313	264

H1a4.6.47Total CVP Deliveries

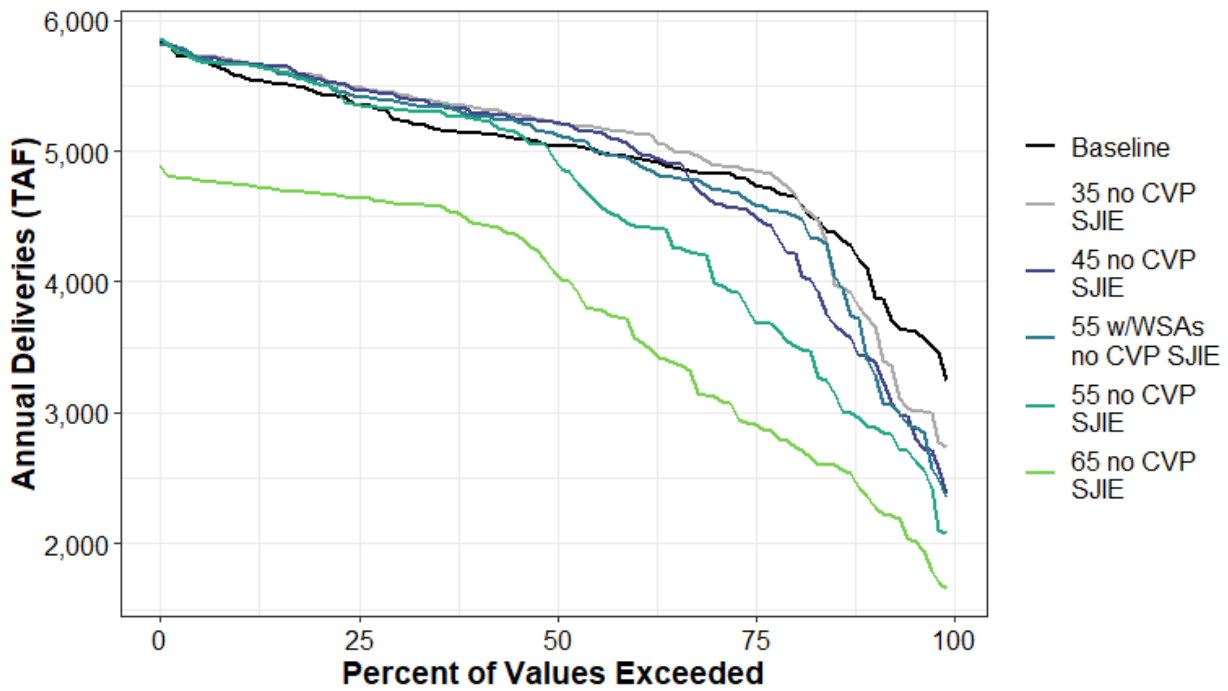

Figure H1a4-207. Surface Water Supplied to Total CVP Deliveries Annual Percent Exceedance Plot.

Table H1a4-418. Surface Water Supplied to Total CVP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,839	5,862	5,862	5,822	5,858	4,889
10%	5,569	5,683	5,672	5,661	5,659	4,744
20%	5,448	5,572	5,555	5,519	5,517	4,674
30%	5,237	5,439	5,418	5,382	5,317	4,599
40%	5,140	5,331	5,286	5,267	5,247	4,442
50%	5,044	5,227	5,219	5,143	4,953	4,086
60%	4,956	5,138	5,020	4,923	4,437	3,603
70%	4,830	4,904	4,622	4,718	4,075	3,128
80%	4,657	4,703	4,220	4,520	3,533	2,767
90%	4,056	3,717	3,425	3,382	2,893	2,344
100%	3,247	2,735	2,382	2,346	2,074	1,655
Mean	4,950	4,987	4,859	4,868	4,565	3,773

Table H1a4-419. Surface Water Supplied to Total CVP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	4,035	3,520	3,236	3,280	2,848	2,332
D	4,821	4,927	4,679	4,717	4,084	3,191
BN	4,958	5,163	5,059	5,065	4,664	3,806
AN	5,062	5,291	5,257	5,251	5,156	4,454
W	5,482	5,579	5,570	5,549	5,533	4,675
All	4,950	4,987	4,859	4,868	4,565	3,773

H1a4.6.48Total CVP North of Delta

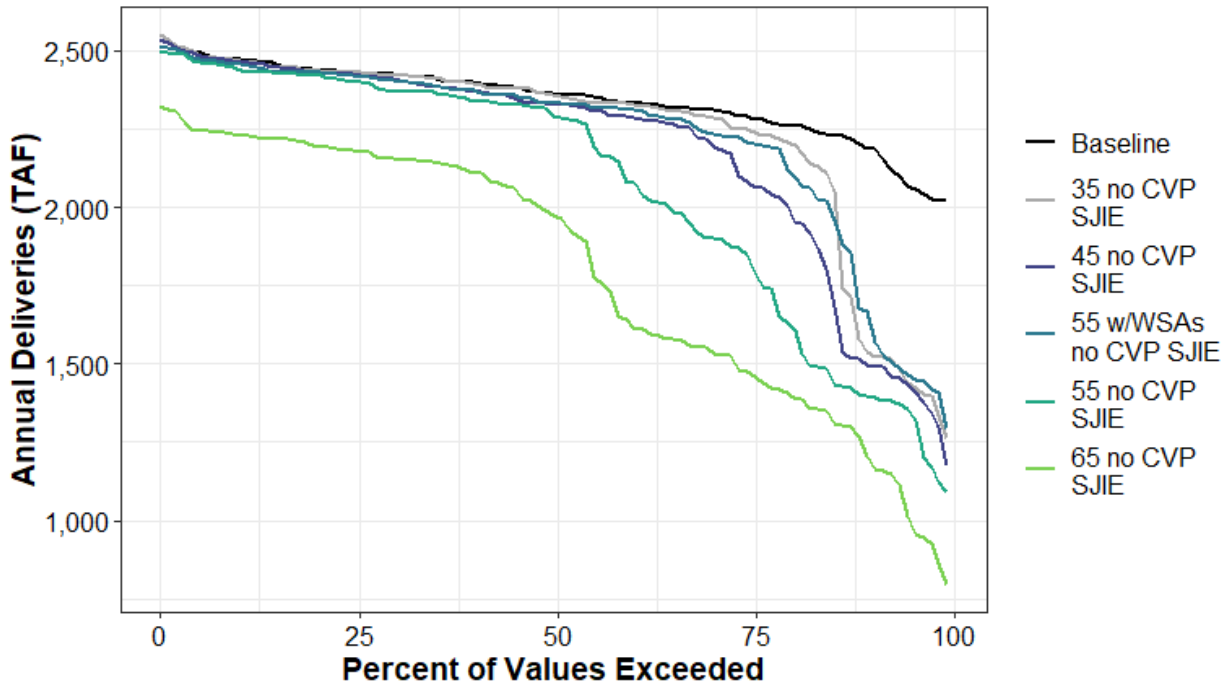

Figure H1a4-208. Surface Water Supplied to Total CVP North of Delta Annual Percent Exceedance Plot.

Table H1a4-420. Surface Water Supplied to Total CVP North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	2,534	2,552	2,535	2,514	2,498	2,321
10%	2,473	2,468	2,463	2,457	2,440	2,230
20%	2,438	2,434	2,431	2,429	2,420	2,193
30%	2,423	2,421	2,407	2,405	2,371	2,152
40%	2,398	2,395	2,369	2,370	2,339	2,110
50%	2,363	2,361	2,329	2,334	2,292	1,974
60%	2,333	2,328	2,285	2,311	2,080	1,619
70%	2,313	2,287	2,204	2,236	1,900	1,542
80%	2,260	2,204	1,981	2,111	1,621	1,399
90%	2,187	1,535	1,494	1,646	1,398	1,198
100%	2,019	1,260	1,173	1,295	1,094	795
Mean	2,344	2,241	2,186	2,226	2,071	1,802

Table H1a4-421. Surface Water Supplied to Total CVP North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	2,176	1,591	1,501	1,619	1,346	1,172
D	2,343	2,296	2,163	2,231	1,887	1,519
BN	2,390	2,398	2,343	2,378	2,203	1,832
AN	2,391	2,402	2,398	2,393	2,381	2,147
W	2,385	2,385	2,384	2,381	2,384	2,189
All	2,344	2,241	2,186	2,226	2,071	1,802

H1a4.6.49CVP North of Delta Water Service (Agricultural)

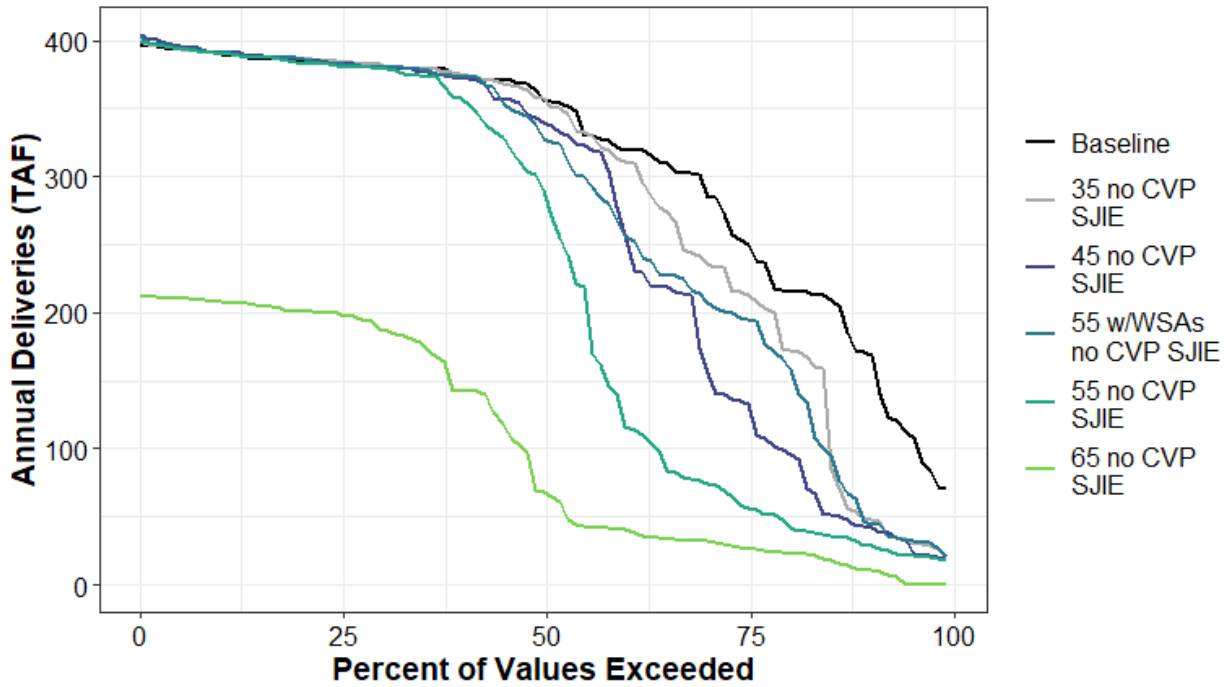

Figure H1a4-209. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-422. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	397	399	405	403	399	213
10%	390	391	391	391	390	208
20%	384	386	386	387	384	201
30%	382	382	380	380	379	187
40%	374	375	372	374	357	143
50%	356	358	340	327	289	69
60%	320	312	262	258	121	41
70%	292	238	163	210	75	32
80%	216	173	98	163	46	24
90%	171	49	43	46	29	11
100%	71	21	20	20	18	0
Mean	312	288	265	275	228	103

Table H1a4-423. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	167	68	47	55	32	13
D	275	234	171	202	91	31
BN	327	329	299	311	214	67
AN	373	375	376	373	367	172
W	382	383	384	384	385	199
All	312	288	265	275	228	103

H1a4.6.50CVP North of Delta Water Service (M&I)

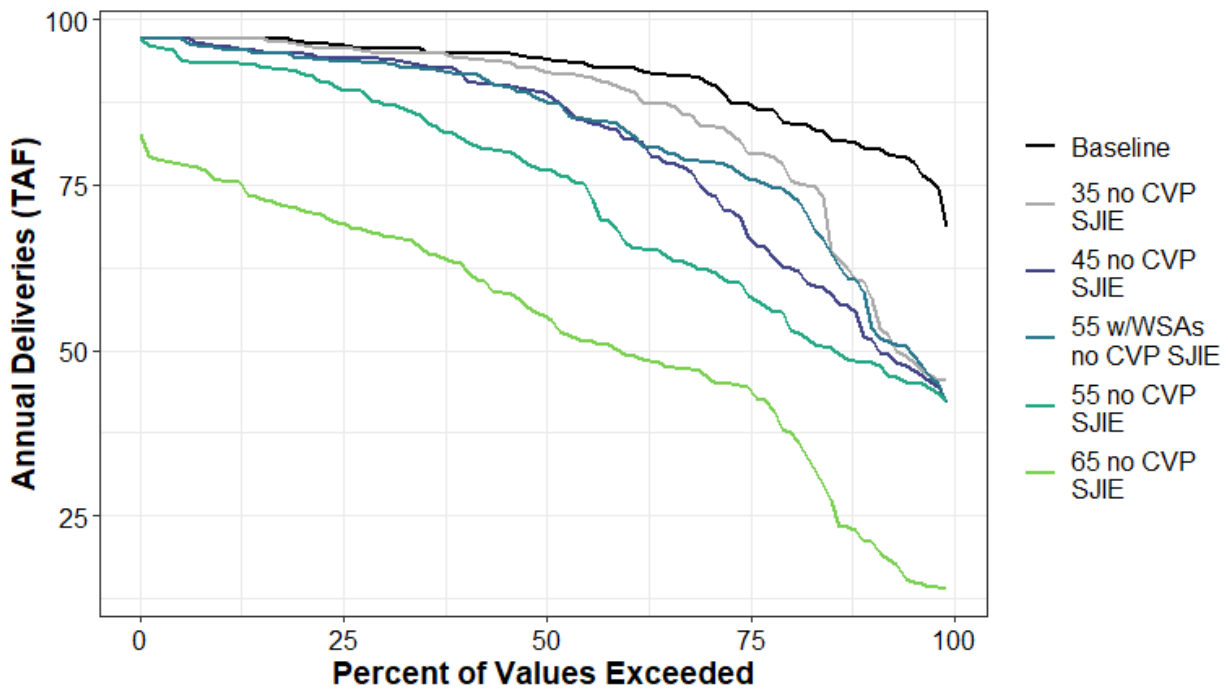

Figure H1a4-210. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a4-424. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	97	97	97	97	97	83
10%	97	97	96	96	93	76
20%	97	96	95	94	92	71
30%	96	95	94	93	87	67
40%	95	94	92	92	82	63
50%	94	92	89	88	77	55
60%	93	90	82	84	67	50
70%	91	84	74	78	62	46
80%	84	77	63	74	55	38
90%	81	60	52	58	48	21
100%	69	46	42	42	42	14
Mean	91	85	81	82	73	53

Table H1a4-425. Surface Water Supplied to CVP North of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	83	58	54	55	51	26
D	91	85	73	79	61	44
BN	91	90	85	87	72	50
AN	93	93	91	90	85	64
W	95	95	94	93	91	73
All	91	85	81	82	73	53

H1a4.6.51 CVP Settlement (Agricultural)

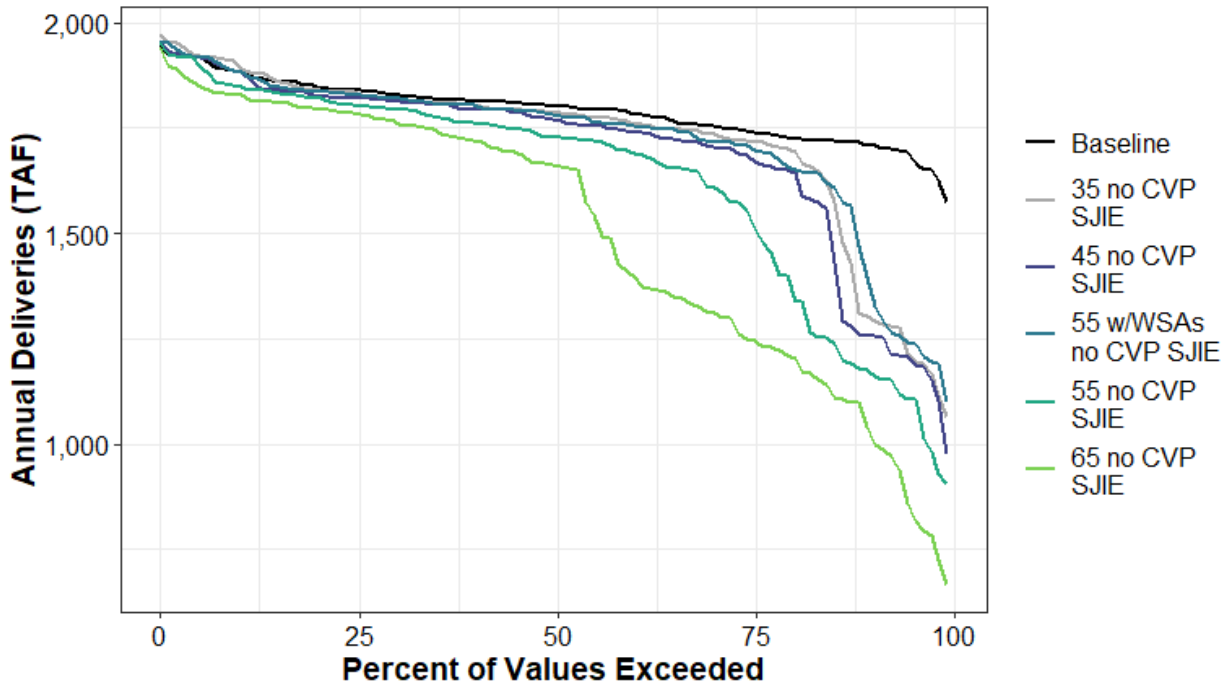

Figure H1a4-211. Surface Water Supplied to CVP Settlement (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-426. Surface Water Supplied to CVP Settlement (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,950	1,973	1,951	1,955	1,951	1,941
10%	1,883	1,895	1,883	1,883	1,849	1,828
20%	1,847	1,841	1,825	1,837	1,821	1,795
30%	1,828	1,819	1,812	1,820	1,793	1,762
40%	1,814	1,803	1,794	1,803	1,762	1,721
50%	1,802	1,788	1,772	1,781	1,727	1,663
60%	1,785	1,762	1,741	1,756	1,692	1,398
70%	1,756	1,736	1,707	1,719	1,610	1,313
80%	1,726	1,697	1,648	1,656	1,374	1,207
90%	1,711	1,303	1,258	1,383	1,173	1,034
100%	1,576	1,063	977	1,098	906	667
Mean	1,794	1,722	1,694	1,722	1,625	1,502

Table H1a4-427. Surface Water Supplied to CVP Settlement (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,784	1,324	1,259	1,368	1,124	997
D	1,830	1,830	1,772	1,804	1,589	1,300
BN	1,824	1,831	1,812	1,832	1,770	1,568
AN	1,778	1,788	1,785	1,785	1,785	1,769
W	1,759	1,759	1,759	1,756	1,761	1,770
All	1,794	1,722	1,694	1,722	1,625	1,502

H1a4.6.52 CVP Settlement (M&I)

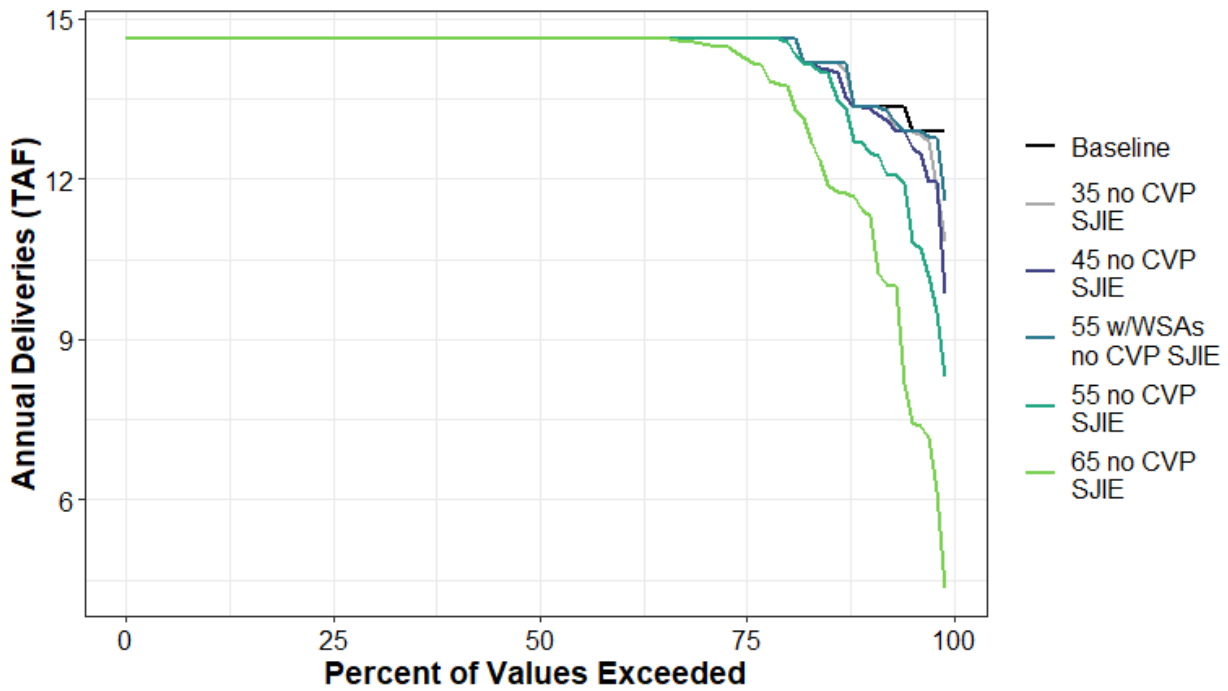

Figure H1a4-212. Surface Water Supplied to CVP Settlement (M&I) Annual Percent Exceedance Plot.

Table H1a4-428. Surface Water Supplied to CVP Settlement (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	14.6	14.6	14.6	14.6	14.6	14.6
10%	14.6	14.6	14.6	14.6	14.6	14.6
20%	14.6	14.6	14.6	14.6	14.6	14.6
30%	14.6	14.6	14.6	14.6	14.6	14.6
40%	14.6	14.6	14.6	14.6	14.6	14.6
50%	14.6	14.6	14.6	14.6	14.6	14.6
60%	14.6	14.6	14.6	14.6	14.6	14.6
70%	14.6	14.6	14.6	14.6	14.6	14.5
80%	14.6	14.6	14.6	14.6	14.6	13.8
90%	13.4	13.4	13.3	13.4	12.6	11.4
100%	12.9	10.8	9.9	11.6	8.3	4.3
Mean	14.4	14.4	14.3	14.4	14.2	13.7

Table H1a4-429. Surface Water Supplied to CVP Settlement (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	13.6	13.4	13.2	13.5	12.3	10.6
D	14.5	14.5	14.5	14.5	14.5	14.2
BN	14.6	14.6	14.5	14.6	14.5	13.9
AN	14.5	14.5	14.5	14.6	14.5	14.4
W	14.6	14.6	14.6	14.6	14.6	14.6
All	14.4	14.4	14.3	14.4	14.2	13.7

H1a4.6.53 CVP North of Delta (Refuge)

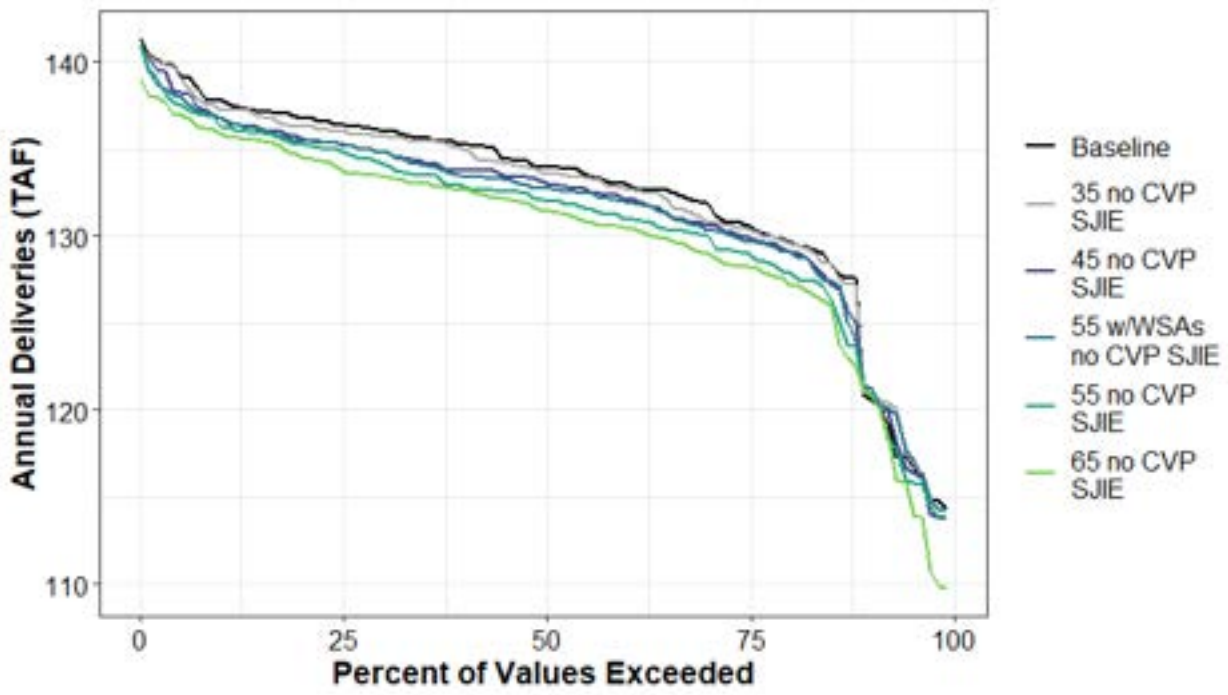

Figure H1a4-213. Surface Water Supplied to CVP North of Delta (Refuge) Annual Percent Exceedance Plot.

Table H1a4-430. Surface Water Supplied to CVP North of Delta (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	141	141	141	141	141	139
10%	138	137	137	137	136	136
20%	137	136	136	135	135	135
30%	136	136	135	135	134	133
40%	135	135	134	133	133	133
50%	134	134	133	133	132	131
60%	133	133	132	132	131	130
70%	132	131	131	130	130	129
80%	130	130	129	129	128	127
90%	121	121	121	121	121	121
100%	114	114	114	114	114	110
Mean	133	132	132	131	131	130

Table H1a4-431. Surface Water Supplied to CVP North of Delta (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	128	128	127	128	127	125
D	133	133	132	132	132	131
BN	133	133	133	133	133	132
AN	132	132	131	130	129	128
W	134	134	133	133	132	132
All	133	132	132	131	131	130

H1a4.6.54Total CVP South of Delta

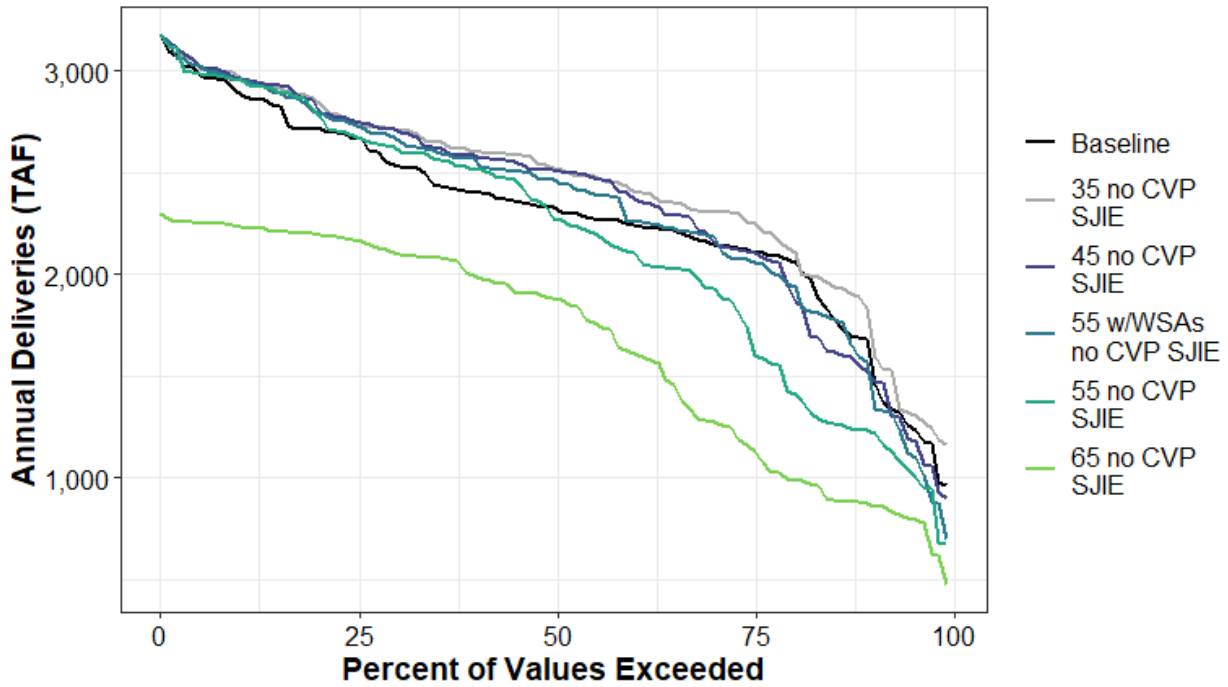

Figure H1a4-214. Surface Water Supplied to Total CVP South of Delta Annual Percent Exceedance Plot.

Table H1a4-432. Surface Water Supplied to Total CVP South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	3,179	3,178	3,178	3,178	3,178	2,296
10%	2,885	2,965	2,960	2,953	2,954	2,234
20%	2,712	2,845	2,816	2,795	2,782	2,196
30%	2,537	2,711	2,704	2,666	2,618	2,100
40%	2,403	2,602	2,579	2,557	2,513	1,989
50%	2,328	2,520	2,513	2,464	2,276	1,884
60%	2,240	2,410	2,375	2,261	2,107	1,610
70%	2,150	2,308	2,175	2,189	1,927	1,279
80%	2,067	2,119	1,911	1,947	1,419	991
90%	1,638	1,788	1,513	1,522	1,228	874
100%	963	1,161	896	697	675	474
Mean	2,294	2,432	2,358	2,327	2,178	1,663

Table H1a4-433. Surface Water Supplied to Total CVP South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,568	1,637	1,442	1,375	1,211	898
D	2,170	2,318	2,199	2,168	1,879	1,361
BN	2,250	2,448	2,399	2,362	2,140	1,665
AN	2,346	2,564	2,532	2,532	2,444	1,983
W	2,778	2,876	2,868	2,849	2,830	2,165
All	2,294	2,432	2,358	2,327	2,178	1,663

H1a4.6.55CVP South of Delta Water Service (Agricultural)

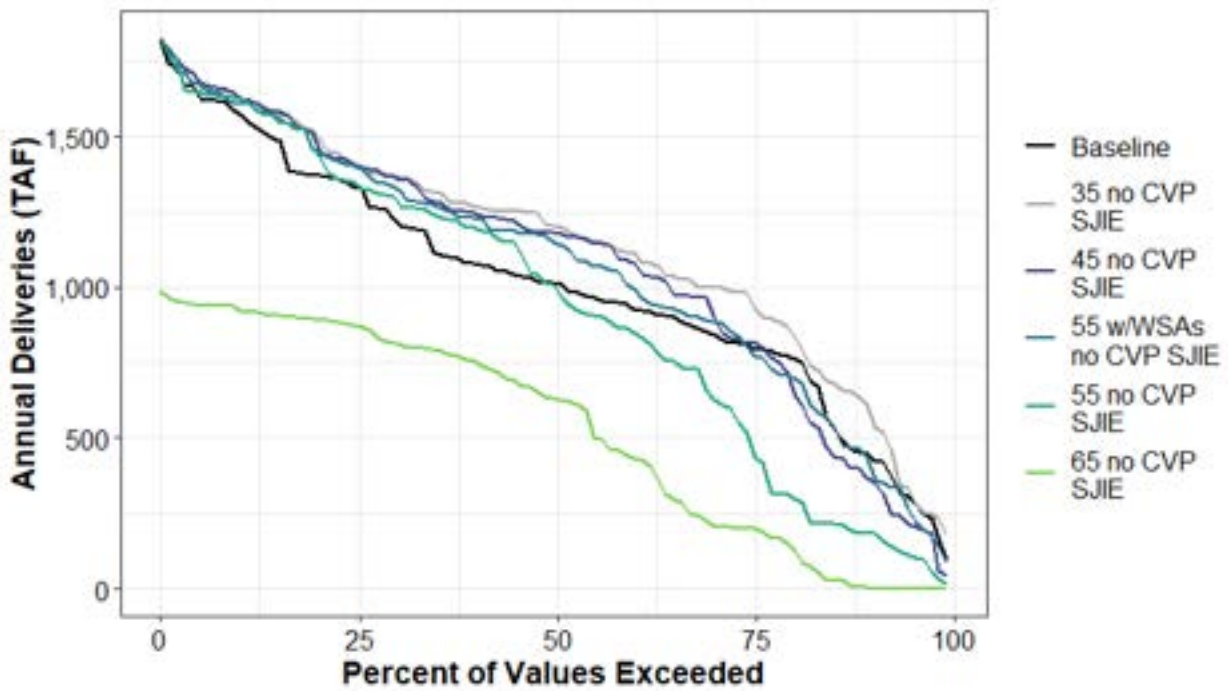

Figure H1a4-215. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-434. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,827	1,827	1,827	1,827	1,827	987
10%	1,576	1,625	1,629	1,611	1,626	923
20%	1,372	1,500	1,473	1,453	1,439	893
30%	1,217	1,369	1,364	1,327	1,288	814
40%	1,077	1,267	1,246	1,230	1,196	754
50%	1,015	1,204	1,182	1,148	1,011	632
60%	930	1,114	1,080	999	849	435
70%	847	1,001	928	887	638	216
80%	768	853	687	704	307	139
90%	444	595	364	421	185	6
100%	91	179	42	88	16	0
Mean	1,017	1,144	1,084	1,069	940	528

Table H1a4-435. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	497	535	390	393	262	106
D	873	1,015	909	897	647	296
BN	937	1,127	1,086	1,046	853	491
AN	1,036	1,244	1,214	1,215	1,135	728
W	1,443	1,534	1,528	1,513	1,493	868
All	1,017	1,144	1,084	1,069	940	528

H1a4.6.56CVP South of Delta Water Service (M&I)

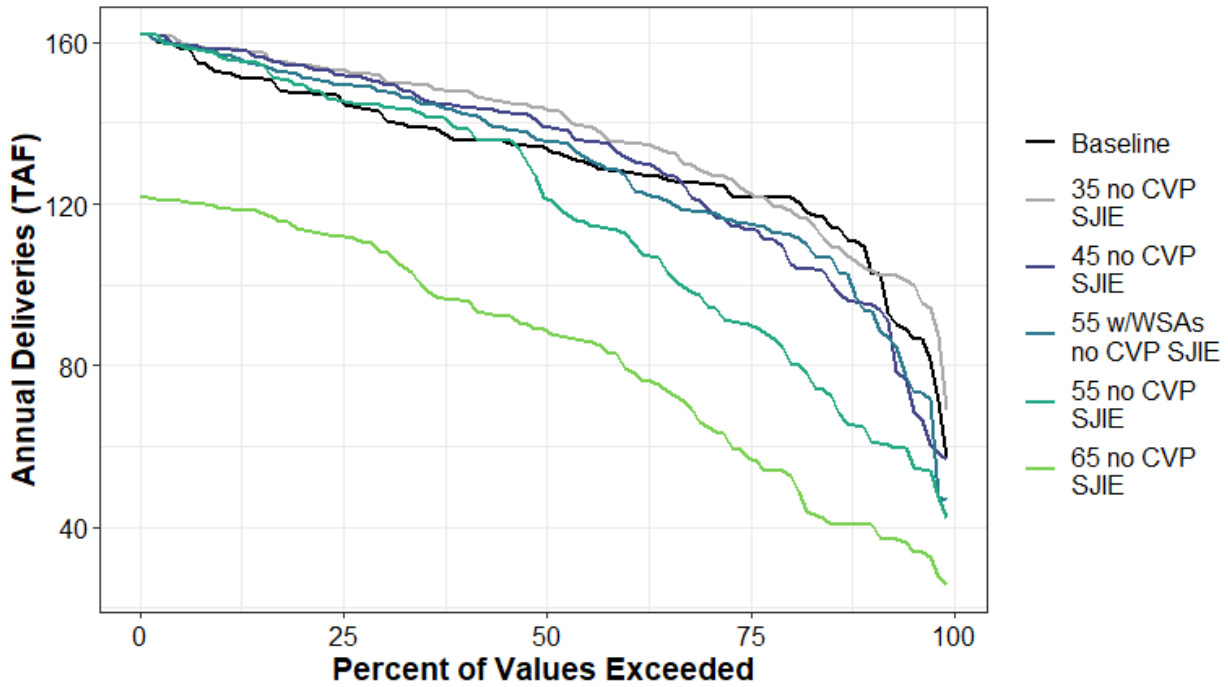

Figure H1a4-216. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a4-436. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	162	162	162	162	162	122
10%	153	158	158	157	157	119
20%	147	154	154	152	149	114
30%	142	151	150	148	144	108
40%	136	148	144	143	139	96
50%	134	144	139	136	122	89
60%	128	135	132	127	113	80
70%	125	128	120	118	96	65
80%	122	119	108	113	83	53
90%	108	104	95	94	64	40
100%	57	69	57	47	42	26
Mean	131	137	131	130	117	84

Table H1a4-437. Surface Water Supplied to CVP South of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	101	107	93	88	75	50
D	127	129	121	119	95	63
BN	130	138	132	134	116	81
AN	132	143	141	140	132	96
W	149	155	154	152	151	113
All	131	137	131	130	117	84

H1a4.6.57CVP SOD Exchange

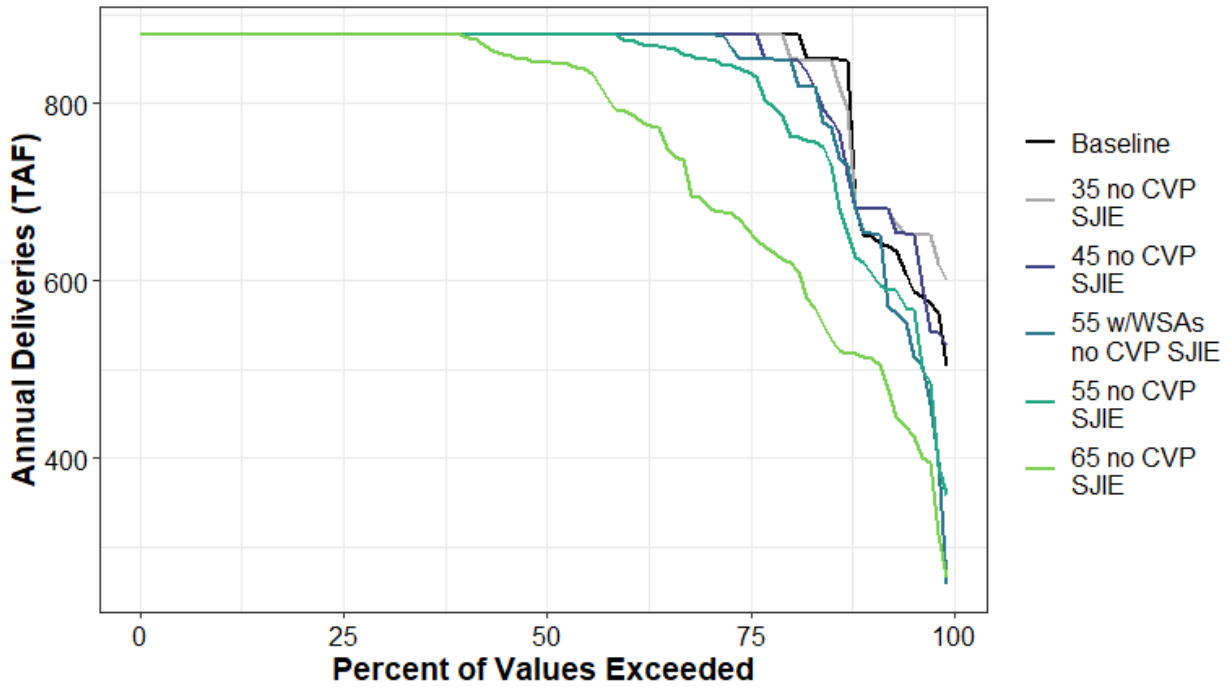

Figure H1a4-217. Surface Water Supplied to CVP SOD Exchange Annual Percent Exceedance Plot.

Table H1a4-438. Surface Water Supplied to CVP SOD Exchange Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	878	878	878	878	878	878
10%	878	878	878	878	878	878
20%	878	878	878	878	878	878
30%	878	878	878	878	878	878
40%	878	878	878	878	878	877
50%	878	878	878	878	878	846
60%	878	878	878	878	873	791
70%	878	878	878	878	850	689
80%	878	867	848	848	776	623
90%	651	682	682	654	618	514
100%	504	601	526	257	359	264
Mean	844	849	841	828	819	757

Table H1a4-439. Surface Water Supplied to CVP SOD Exchange Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	694	719	683	626	600	496
D	865	867	862	845	830	701
BN	875	875	874	875	864	792
AN	874	874	874	874	874	860
W	877	877	877	875	877	875
All	844	849	841	828	819	757

H1a4.6.58CVP SOD Refuge

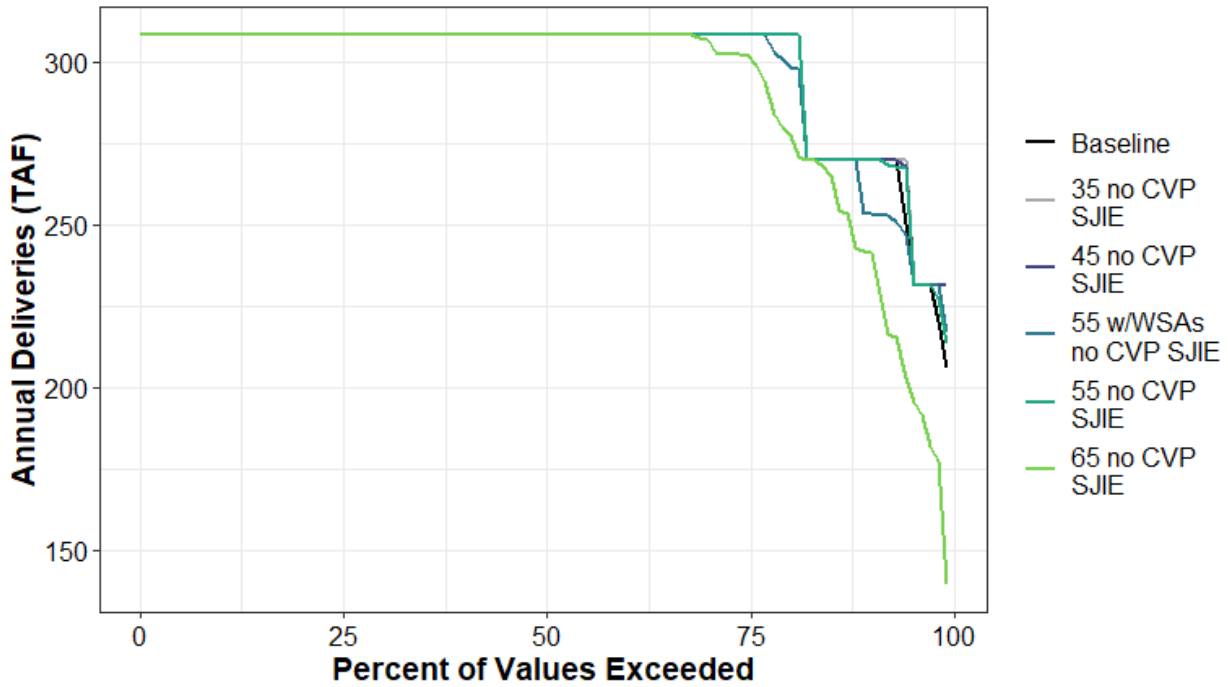

Figure H1a4-218. Surface Water Supplied to CVP SOD Refuge Annual Percent Exceedance Plot.

Table H1a4-440. Surface Water Supplied to CVP SOD Refuge Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	309	309	309	309	309	309
10%	309	309	309	309	309	309
20%	309	309	309	309	309	309
30%	309	309	309	309	309	309
40%	309	309	309	309	309	309
50%	309	309	309	309	309	309
60%	309	309	309	309	309	309
70%	309	309	309	309	309	307
80%	309	309	309	300	309	279
90%	270	270	270	253	270	242
100%	206	231	231	217	214	139
Mean	299	300	300	298	299	292

Table H1a4-441. Surface Water Supplied to CVP SOD Refuge Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	271	272	272	264	271	243
D	302	303	303	303	303	298
BN	304	304	304	304	304	298
AN	302	302	302	302	302	297
W	307	307	307	307	307	307
All	299	300	300	298	299	292

H1a4.6.59Total SWP Deliveries

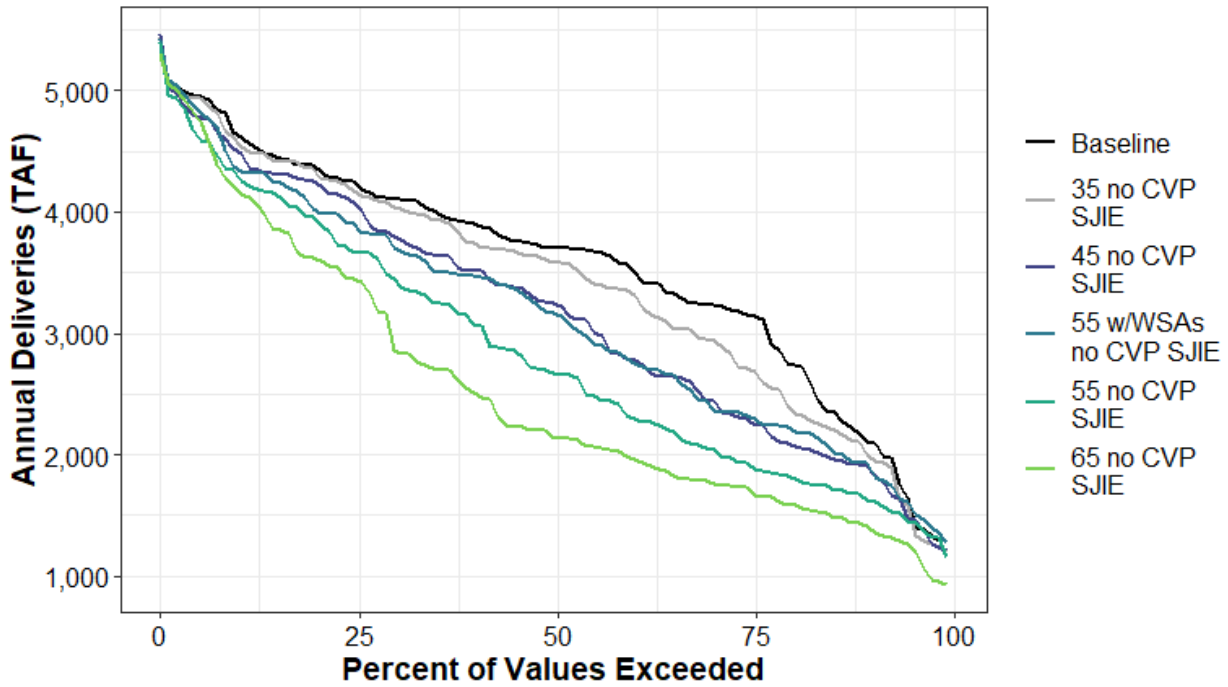

Figure H1a4-219. Surface Water Supplied to Total SWP Deliveries Annual Percent Exceedance Plot.

Table H1a4-442. Surface Water Supplied to Total SWP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	5,465	5,430	5,457	5,419	5,388	5,304
10%	4,630	4,552	4,492	4,345	4,271	4,158
20%	4,351	4,307	4,233	4,005	3,919	3,603
30%	4,112	4,033	3,787	3,697	3,420	2,846
40%	3,903	3,737	3,517	3,472	3,074	2,504
50%	3,710	3,584	3,245	3,167	2,670	2,143
60%	3,512	3,320	2,777	2,756	2,302	1,969
70%	3,231	2,945	2,442	2,400	2,046	1,768
80%	2,745	2,374	2,087	2,212	1,811	1,582
90%	2,110	1,988	1,889	1,908	1,622	1,400
100%	1,288	1,192	1,209	1,272	1,155	929
Mean	3,551	3,406	3,157	3,136	2,836	2,526

Table H1a4-443. Surface Water Supplied to Total SWP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	2,043	1,930	1,835	1,888	1,646	1,347
D	3,234	2,959	2,533	2,427	2,165	1,924
BN	3,631	3,396	3,013	3,094	2,628	2,241
AN	3,782	3,700	3,470	3,436	2,919	2,337
W	4,446	4,409	4,286	4,227	4,061	3,852
All	3,551	3,406	3,157	3,136	2,836	2,526

H1a4.6.60Total SWP Table A

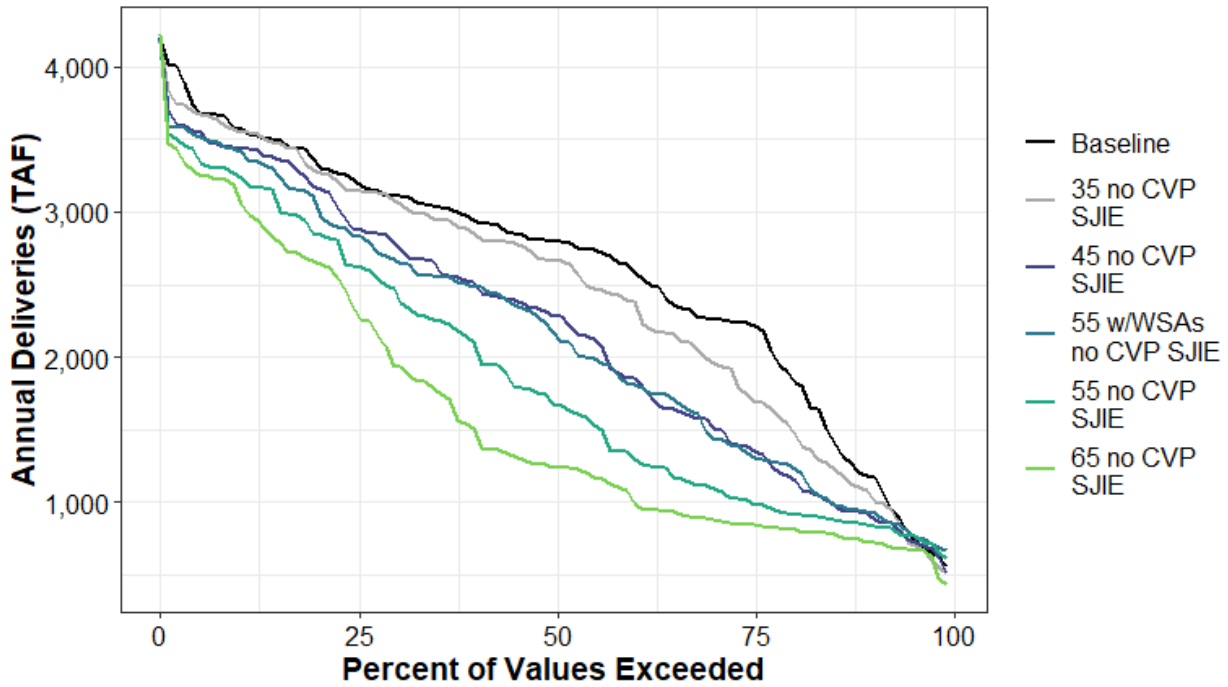

Figure H1a4-220. Surface Water Supplied to Total SWP Table A Annual Percent Exceedance Plot.

Table H1a4-444. Surface Water Supplied to Total SWP Table A Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,190	4,171	4,183	4,205	4,174	4,226
10%	3,577	3,558	3,436	3,419	3,243	3,084
20%	3,326	3,276	3,164	3,023	2,846	2,652
30%	3,110	3,068	2,768	2,663	2,434	1,934
40%	2,941	2,848	2,501	2,488	2,069	1,478
50%	2,796	2,667	2,280	2,168	1,674	1,242
60%	2,595	2,383	1,854	1,816	1,308	1,007
70%	2,263	1,970	1,537	1,451	1,101	882
80%	1,866	1,510	1,166	1,246	920	811
90%	1,183	1,068	915	935	847	725
100%	549	511	514	664	614	430
Mean	2,595	2,447	2,173	2,142	1,863	1,598

Table H1a4-445. Surface Water Supplied to Total SWP Table A Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,190	1,100	994	1,015	881	714
D	2,273	1,986	1,555	1,451	1,225	1,042
BN	2,700	2,464	2,089	2,148	1,671	1,332
AN	2,830	2,748	2,470	2,425	1,922	1,369
W	3,421	3,373	3,189	3,133	2,952	2,738
All	2,595	2,447	2,173	2,142	1,863	1,598

H1a4.6.61SWP Table A North of Delta

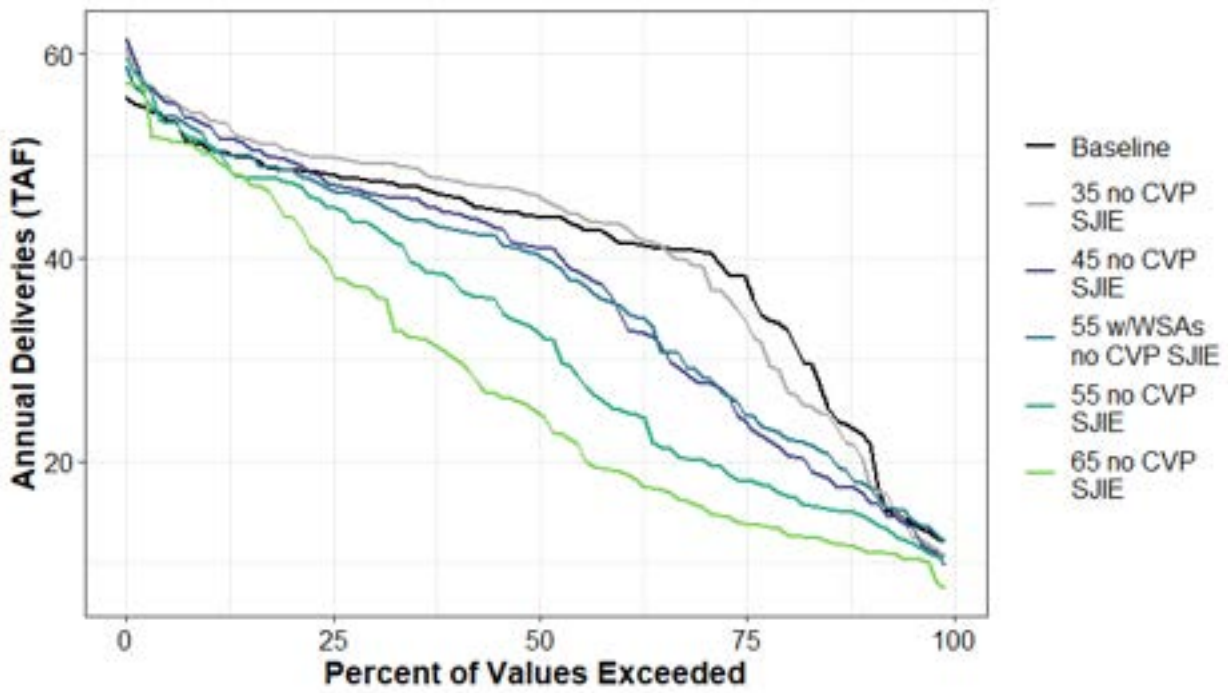

Figure H1a4-221. Surface Water Supplied to SWP Table A North of Delta Annual Percent Exceedance Plot.

Table H1a4-446. Surface Water Supplied to SWP Table A North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	56	60	62	59	60	57
10%	51	53	53	51	51	50
20%	49	50	49	49	47	44
30%	48	49	46	46	43	37
40%	46	48	44	43	38	30
50%	44	46	41	40	33	25
60%	42	43	35	35	25	19
70%	41	39	28	29	20	16
80%	33	28	21	23	17	13
90%	22	20	17	18	15	11
100%	12	11	10	12	11	7
Mean	41	41	37	37	32	28

Table H1a4-447. Surface Water Supplied to SWP Table A North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	21	20	16	17	14	11
D	37	36	28	27	22	17
BN	43	44	37	39	30	23
AN	46	48	46	44	38	30
W	50	52	50	49	48	46
All	41	41	37	37	32	28

H1a4.6.62SWP Table A South of Delta

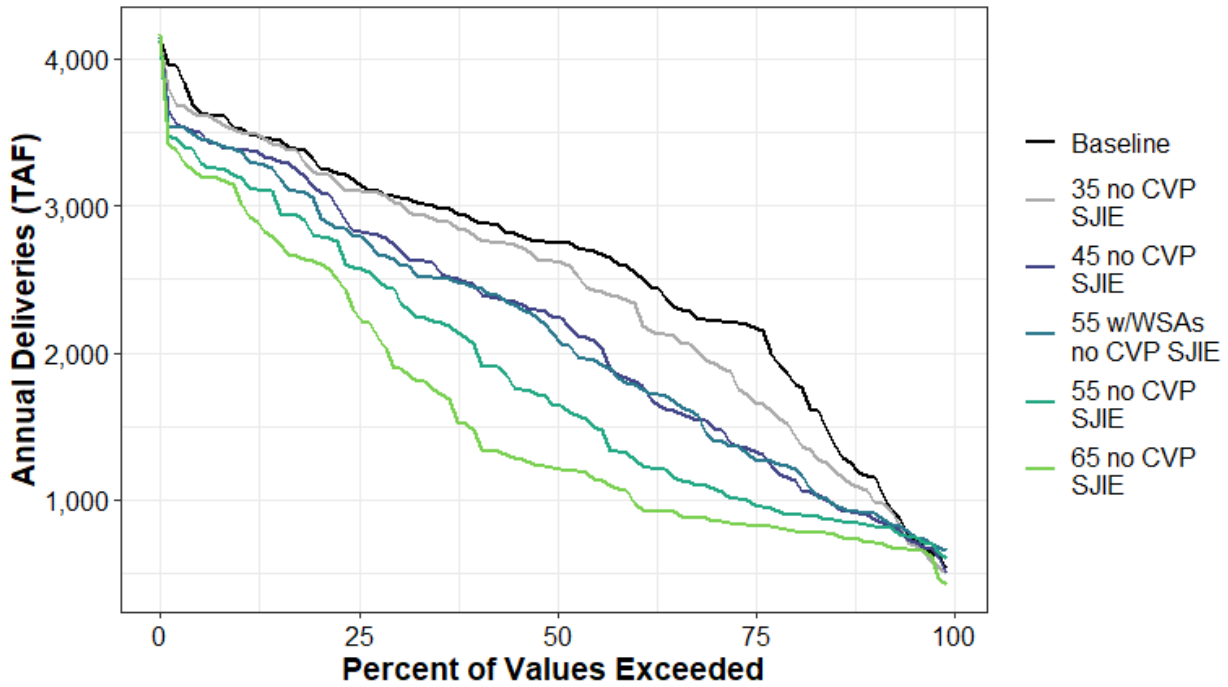

Figure H1a4-222. Surface Water Supplied to SWP Table A South of Delta Annual Percent Exceedance Plot.

Table H1a4-448. Surface Water Supplied to SWP Table A South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4,135	4,115	4,126	4,148	4,117	4,169
10%	3,528	3,508	3,381	3,369	3,196	3,037
20%	3,277	3,225	3,111	2,971	2,797	2,612
30%	3,064	3,019	2,717	2,621	2,394	1,896
40%	2,895	2,798	2,455	2,444	2,035	1,446
50%	2,750	2,624	2,242	2,133	1,645	1,221
60%	2,555	2,342	1,816	1,786	1,281	993
70%	2,221	1,936	1,508	1,421	1,081	866
80%	1,833	1,482	1,144	1,224	903	796
90%	1,160	1,044	896	914	831	714
100%	535	498	505	651	604	423
Mean	2,555	2,406	2,136	2,105	1,830	1,571

Table H1a4-449. Surface Water Supplied to SWP Table A South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	1,169	1,080	978	998	866	702
D	2,236	1,951	1,527	1,424	1,203	1,026
BN	2,657	2,420	2,051	2,108	1,641	1,309
AN	2,784	2,700	2,424	2,381	1,885	1,339
W	3,371	3,321	3,138	3,083	2,903	2,692
All	2,555	2,406	2,136	2,105	1,830	1,571

H1a4.6.63Total SWP Article 21

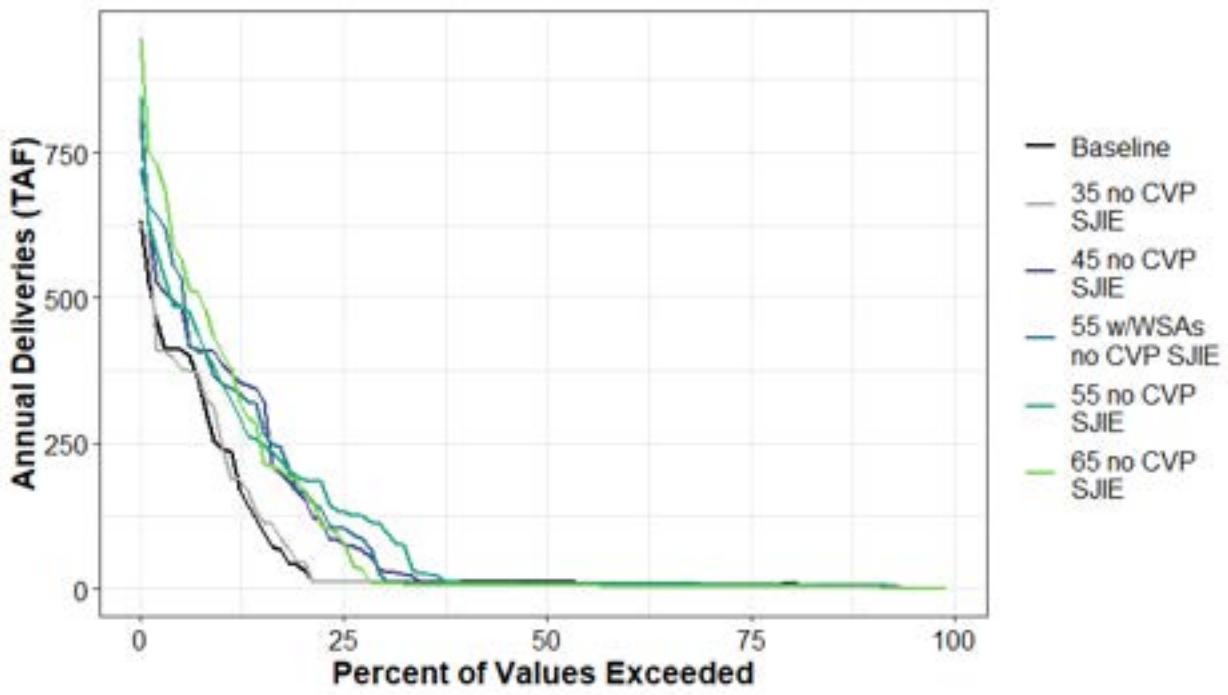

Figure H1a4-223. Surface Water Supplied to Total SWP Article 21 Annual Percent Exceedance Plot.

Table H1a4-450. Surface Water Supplied to Total SWP Article 21 Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	633	626	807	723	847	947
10%	244	261	391	355	358	411
20%	35	47	160	168	190	175
30%	11	11	32	19	104	8
40%	11	10	10	9	10	6
50%	10	9	8	8	7	5
60%	9	9	7	8	6	4
70%	9	8	7	7	5	4
80%	8	7	6	6	5	3
90%	6	6	5	5	3	2
100%	0	0	0	0	0	0
Mean	62	63	95	98	101	101

Table H1a4-451. Surface Water Supplied to Total SWP Article 21 Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	21	17	44	53	26	8
D	29	31	46	37	34	15
BN	18	12	13	28	52	75
AN	62	56	105	112	107	103
W	136	146	206	204	218	228
All	62	63	95	98	101	101

H1a4.6.64SWP Article 21 Central Coast and Tulare

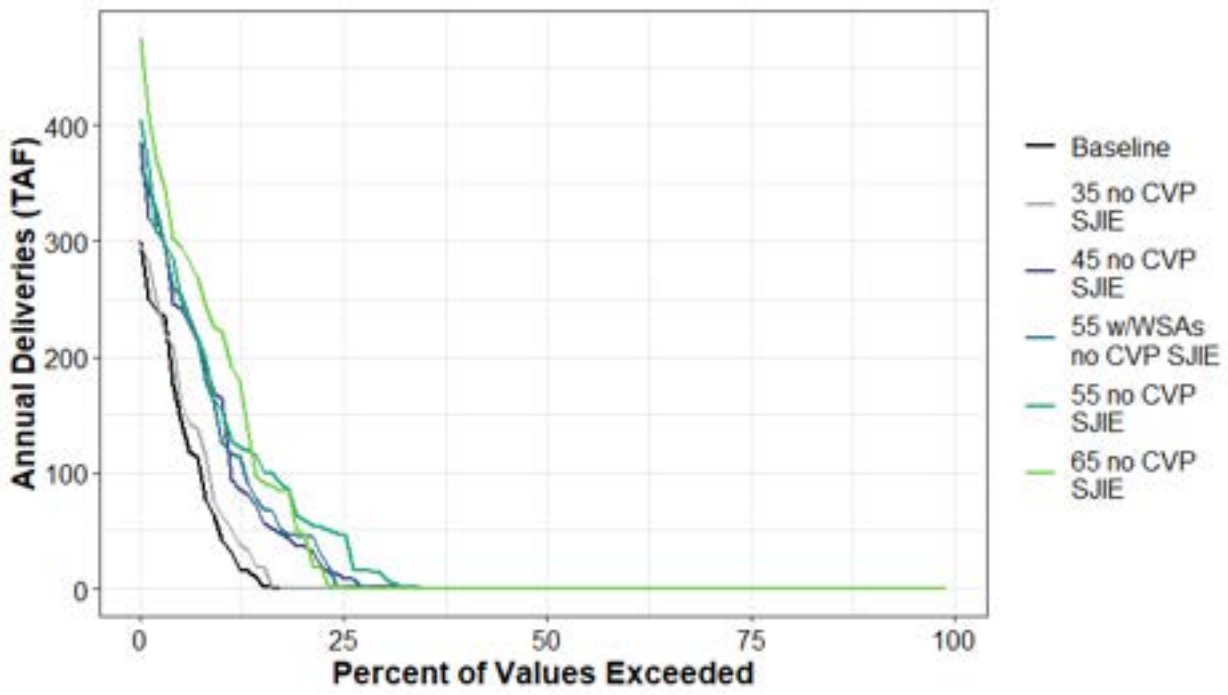

Figure H1a4-224. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Percent Exceedance Plot.

Table H1a4-452. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	300	297	385	365	405	475
10%	47	66	165	133	155	222
20%	1	1	37	46	60	48
30%	1	1	1	1	11	1
40%	1	1	1	1	1	1
50%	0	0	1	1	1	0
60%	0	0	0	0	1	0
70%	0	0	0	0	0	0
80%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	19	22	35	36	43	46

Table H1a4-453. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	8	6	21	24	13	3
D	10	12	21	17	16	7
BN	4	2	4	11	29	40
AN	7	7	15	12	32	34
W	45	55	82	83	90	105
All	19	22	35	36	43	46

H1a4.6.65SWP Article 21 South Bay Aqueduct

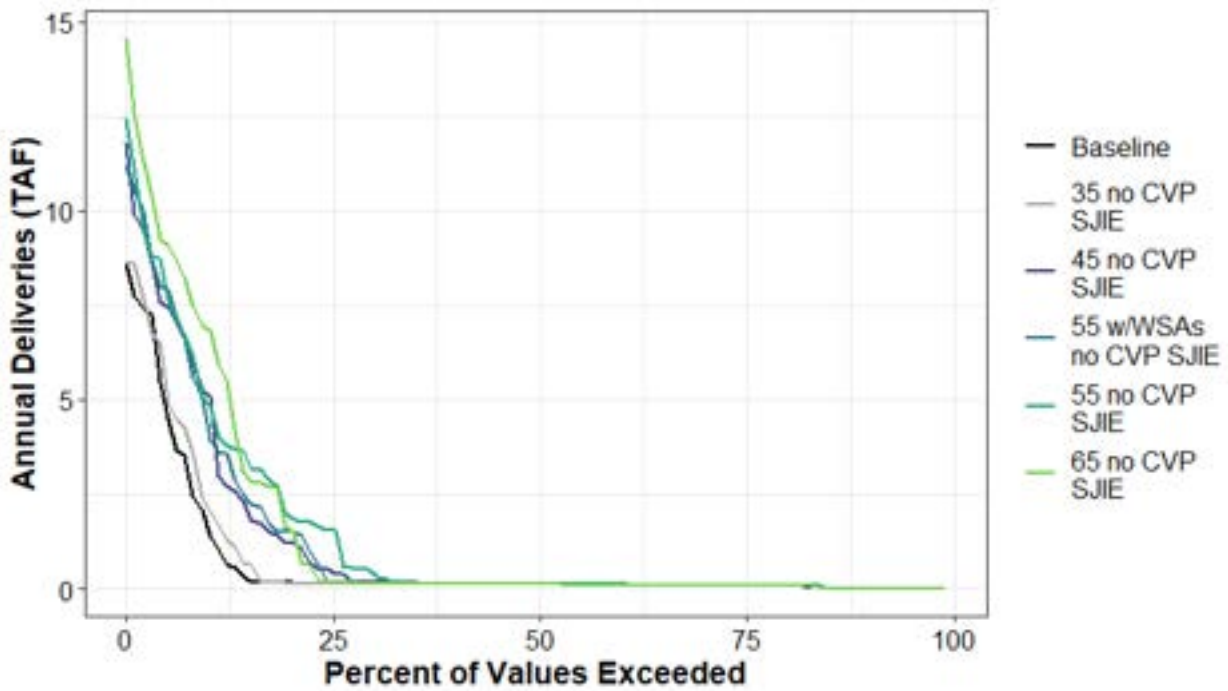

Figure H1a4-225. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Percent Exceedance Plot.

Table H1a4-454. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	8.6	8.7	11.8	11.2	12.5	14.6
10%	1.5	2.1	5.1	4.2	4.9	6.8
20%	0.2	0.2	1.2	1.5	1.9	1.6
30%	0.1	0.1	0.2	0.2	0.4	0.1
40%	0.1	0.1	0.1	0.1	0.1	0.1
50%	0.1	0.1	0.1	0.1	0.1	0.1
60%	0.1	0.1	0.1	0.1	0.1	0.1
70%	0.1	0.1	0.1	0.1	0.1	0.1
80%	0.1	0.1	0.1	0.1	0.1	0.1
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	0.7	0.7	1.2	1.2	1.4	1.5

Table H1a4-455. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	0.3	0.3	0.7	0.8	0.5	0.2
D	0.4	0.5	0.7	0.6	0.6	0.3
BN	0.2	0.2	0.2	0.4	1	1.3
AN	0.3	0.3	0.6	0.5	1	1.1
W	1.4	1.7	2.5	2.6	2.8	3.3
All	0.7	0.7	1.2	1.2	1.4	1.5

H1a4.6.66SWP Article 21 South Coast

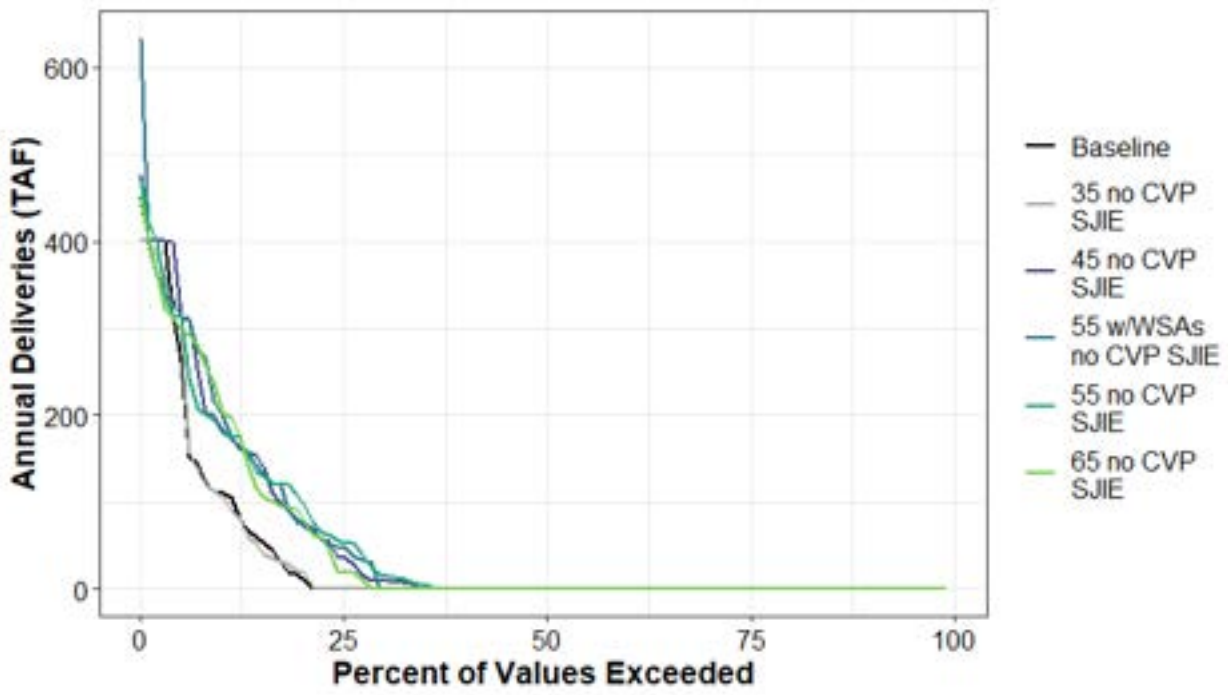

Figure H1a4-226. Surface Water Supplied to SWP Article 21 South Coast Annual Percent Exceedance Plot.

Table H1a4-456. Surface Water Supplied to SWP Article 21 South Coast Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	449	400	477	634	470	451
10%	111	107	188	203	183	211
20%	12	19	76	75	101	83
30%	0	0	9	1	15	0
40%	0	0	0	0	0	0
50%	0	0	0	0	0	0
60%	0	0	0	0	0	0
70%	0	0	0	0	0	0
80%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	34	33	52	53	52	49

Table H1a4-457. Surface Water Supplied to SWP Article 21 South Coast Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	7	5	18	23	9	3
D	11	12	19	14	13	4
BN	4	2	3	11	18	30
AN	46	40	82	92	68	64
W	80	80	114	110	118	113
All	34	33	52	53	52	49

H1a4.6.67SWP Article 21 Napa

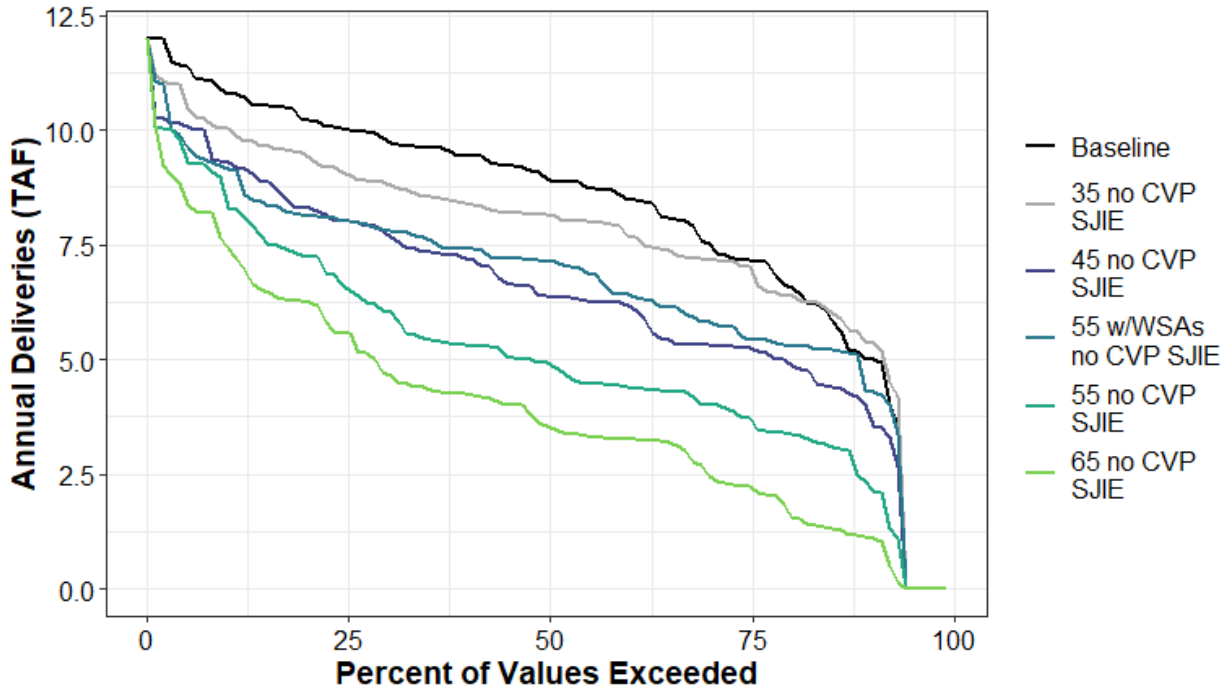

Figure H1a4-227. Surface Water Supplied to SWP Article 21 Napa Annual Percent Exceedance Plot.

Table H1a4-458. Surface Water Supplied to SWP Article 21 Napa Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	12	12	12	12	12	12
10%	10.8	10	9.3	9.2	8.4	7.5
20%	10.2	9.5	8.3	8.1	7.3	6.2
30%	9.8	8.8	7.7	7.8	6.1	4.7
40%	9.4	8.4	7.2	7.4	5.3	4.2
50%	8.9	8.1	6.4	7.1	4.9	3.5
60%	8.5	7.7	6.2	6.4	4.4	3.3
70%	7.5	7.2	5.3	5.8	4	2.5
80%	6.6	6.4	4.9	5.3	3.4	1.7
90%	5	5.4	3.9	4.3	2.3	1.1
100%	0	0	0	0	0	0
Mean	8.2	7.6	6.4	6.7	5.1	4

Table H1a4-459. Surface Water Supplied to SWP Article 21 Napa Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	5.7	6.1	4.7	5.5	3.3	1.6
D	7.3	6.8	5.3	5.8	3.9	2.6
BN	8.5	7.3	5.6	6.1	4.2	3.2
AN	9.3	8.6	7.2	7.3	5.6	4.5
W	9.6	8.9	8.3	8	7.4	6.5
All	8.2	7.6	6.4	6.7	5.1	4

H1a4.6.68SWP Feather River Service Area (Agricultural)

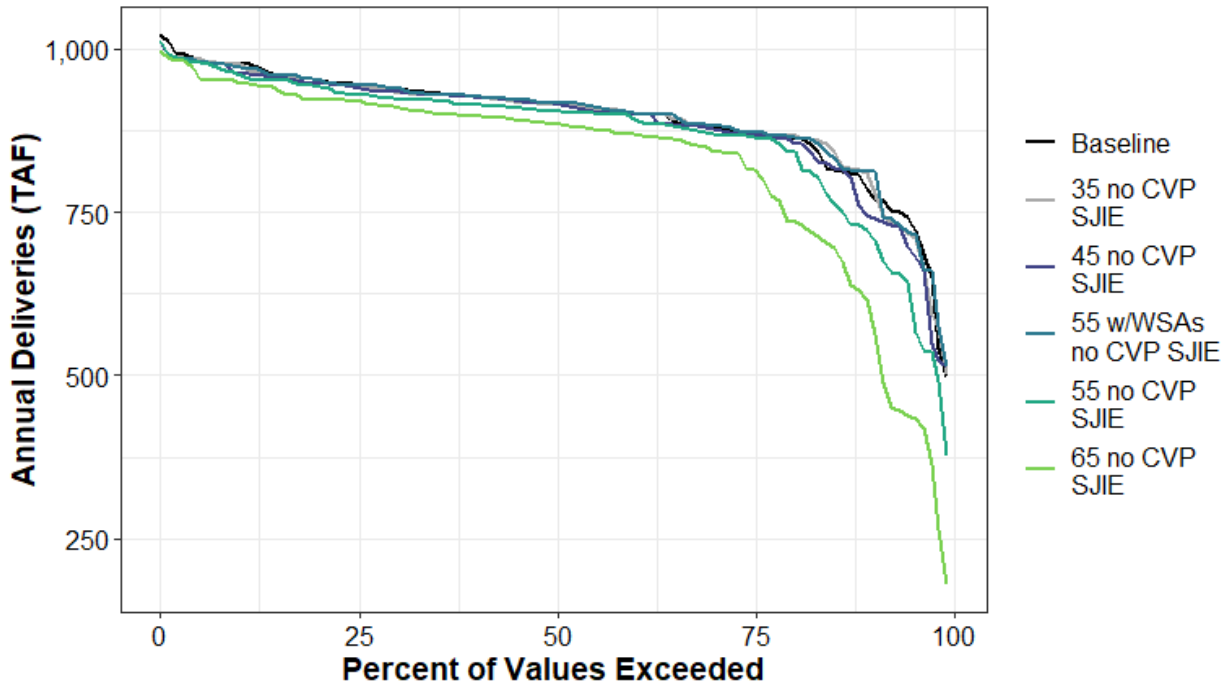

Figure H1a4-228. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a4-460. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	1,022	1,010	1,010	1,010	1,010	997
10%	976	976	962	973	960	947
20%	953	953	947	953	943	923
30%	939	934	933	940	923	911
40%	928	926	926	928	914	897
50%	916	915	916	917	904	884
60%	901	903	900	903	894	869
70%	883	884	878	884	870	845
80%	864	866	859	866	842	735
90%	781	803	745	812	719	606
100%	498	502	514	513	378	180
Mean	894	893	886	895	869	825

Table H1a4-461. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	830	806	790	815	733	621
D	932	938	928	937	903	866
BN	913	917	908	917	902	832
AN	890	894	892	899	887	862
W	889	889	890	890	889	883
All	894	893	886	895	869	825

H1a4.6.69SWP Settlement (Urban)

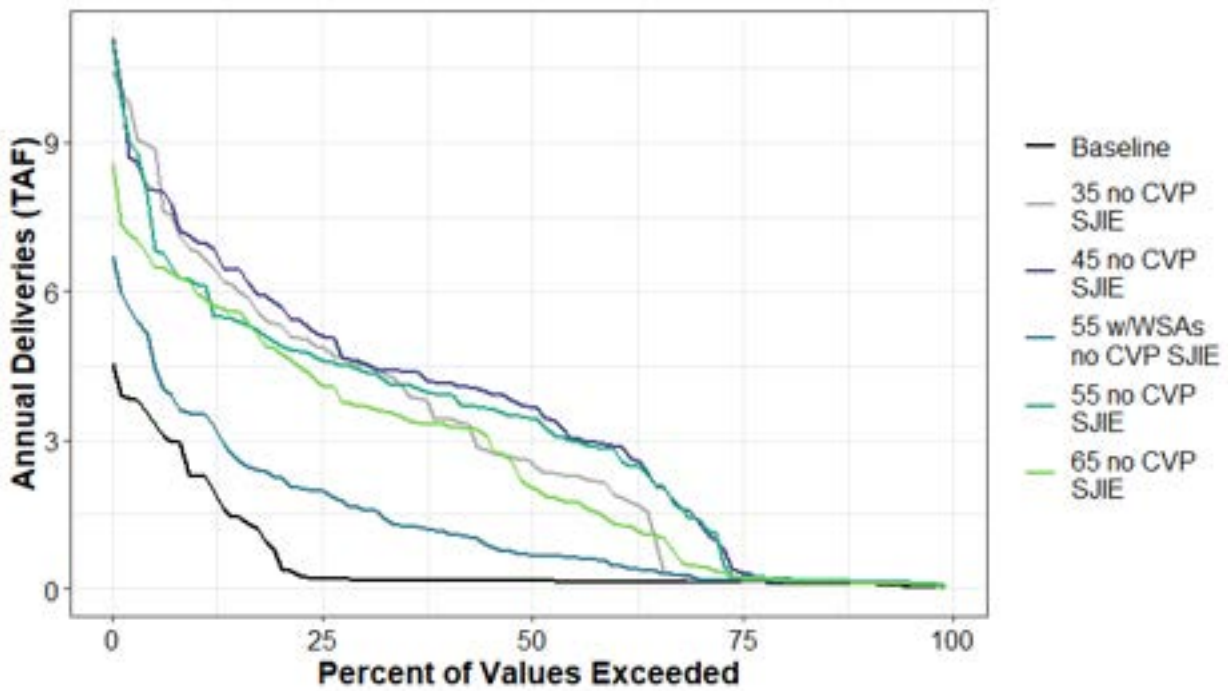

Figure H1a4-229. Surface Water Supplied to SWP Settlement (Urban) Annual Percent Exceedance Plot.

Table H1a4-462. Surface Water Supplied to SWP Settlement (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
0%	4.5	10.5	11.1	6.7	11	8.6
10%	2.3	6.8	7	3.5	6.2	6
20%	0.6	5.3	5.7	2.3	4.9	4.8
30%	0.2	4.5	4.6	1.6	4.4	3.7
40%	0.2	3.4	4.1	1.1	3.9	3.3
50%	0.2	2.6	3.7	0.7	3.5	2.1
60%	0.1	1.9	2.9	0.5	2.8	1.3
70%	0.1	0.2	1.4	0.2	1.4	0.5
80%	0.1	0.1	0.2	0.1	0.2	0.2
90%	0.1	0.1	0.1	0.1	0.1	0.1
100%	0	0.1	0	0.1	0	0
Mean	0.6	3	3.5	1.3	3.2	2.6

Table H1a4-463. Surface Water Supplied to SWP Settlement (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	2.5	6.8	6.5	3.8	5.6	4
D	0.4	3.2	3.4	1.3	2.7	1.6
BN	0.3	3	3.6	1.1	3	2.4
AN	0.1	2.2	3.1	0.6	3.3	2.9
W	0.1	1.2	1.9	0.4	2.3	2.6
All	0.6	3	3.5	1.3	3.2	2.6

H1a4.7 Groundwater Storage and Flows

H1a4.7.1 Total Groundwater Pumping

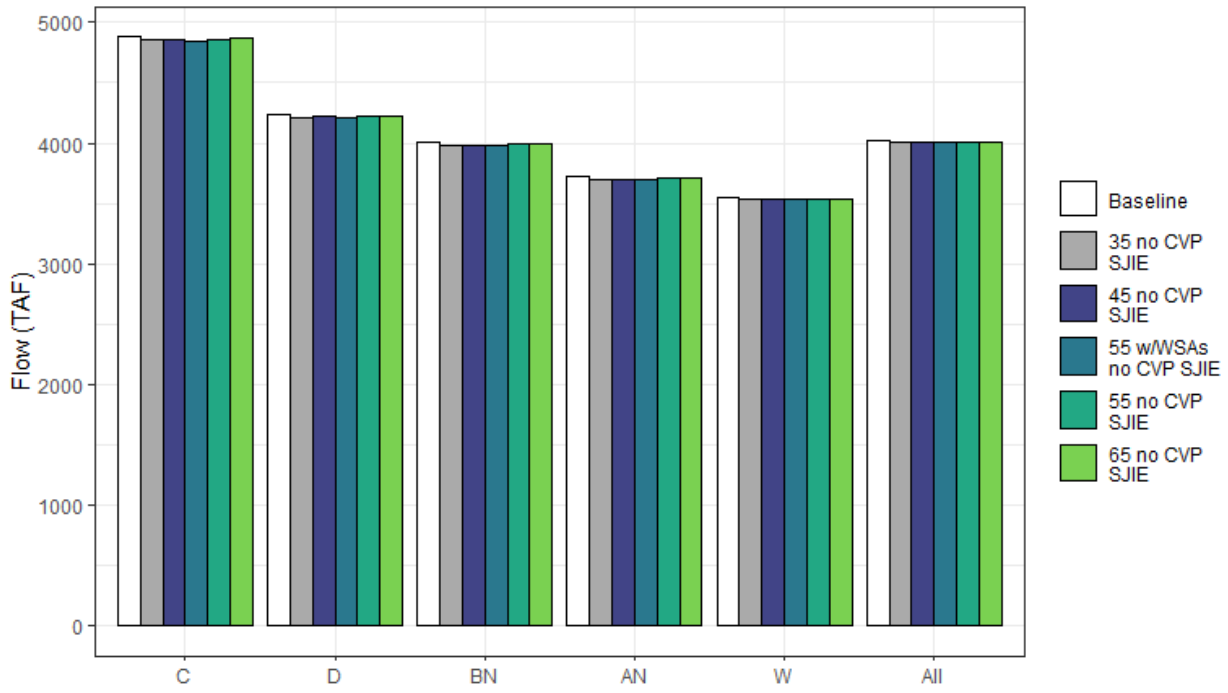

Figure H1a4-230. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

Table H1a4-464. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	4,884	4,852	4,857	4,849	4,862	4,869
D	4,242	4,213	4,219	4,212	4,220	4,226
BN	4,006	3,984	3,986	3,984	3,990	3,991
AN	3,721	3,701	3,702	3,703	3,708	3,710
W	3,546	3,536	3,536	3,535	3,536	3,539
All	4,027	4,005	4,008	4,004	4,010	4,014

H1a4.7.2 Total Groundwater Pumping — Delta Eastside Tributaries

The groundwater basins underlying the Delta Eastside Tributaries region include the Cosumnes and a portion of the Eastern San Joaquin basins. Groundwater pumping for this region is considered to be the sum of groundwater pumping for all demands in water budget areas 60N and 60S; pumping for demands in water budget area 61N is excluded.

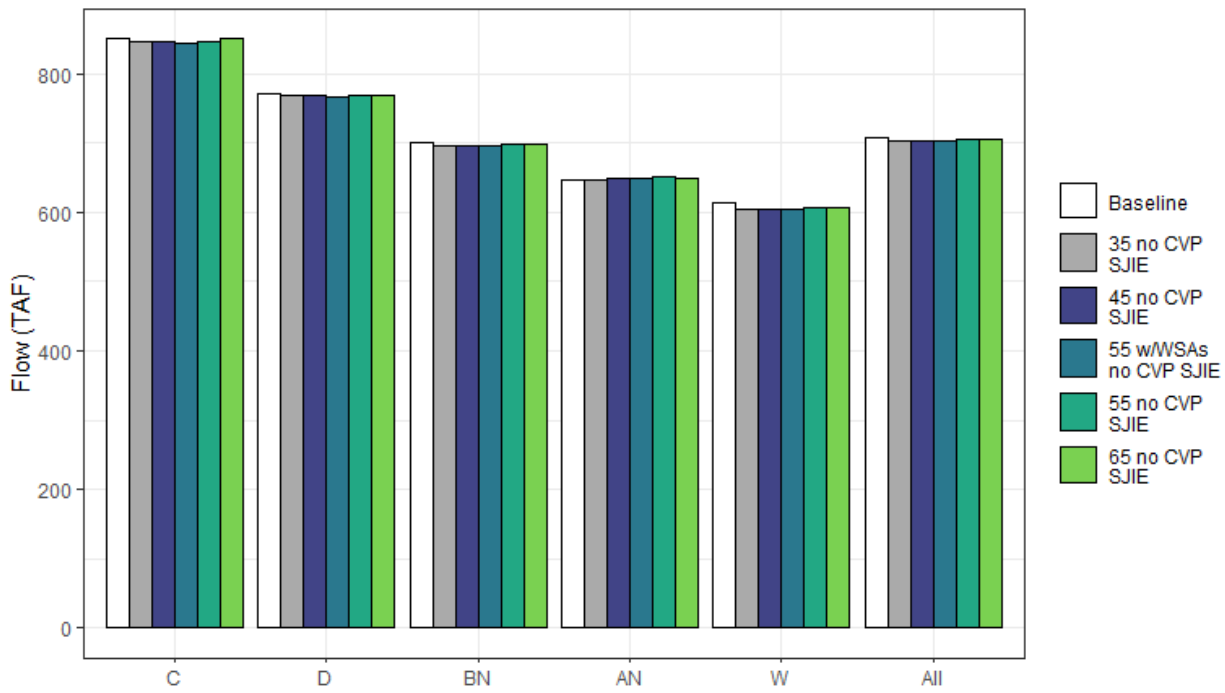

Figure H1a4-231. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a4-465. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	851	846	846	844	846	850
D	770	769	769	766	769	769
BN	701	696	697	696	699	697
AN	647	647	649	649	650	648
W	614	604	604	604	607	606
All	708	703	703	702	704	704

H1a4.7.3 Groundwater Pumping — Sacramento River Watershed

The groundwater basins underlying the Sacramento River Watershed region include the American, Butte, Red Bluff-Corning, Redding, Sutter-Yuba, Yolo-Solano, and Colusa basins.

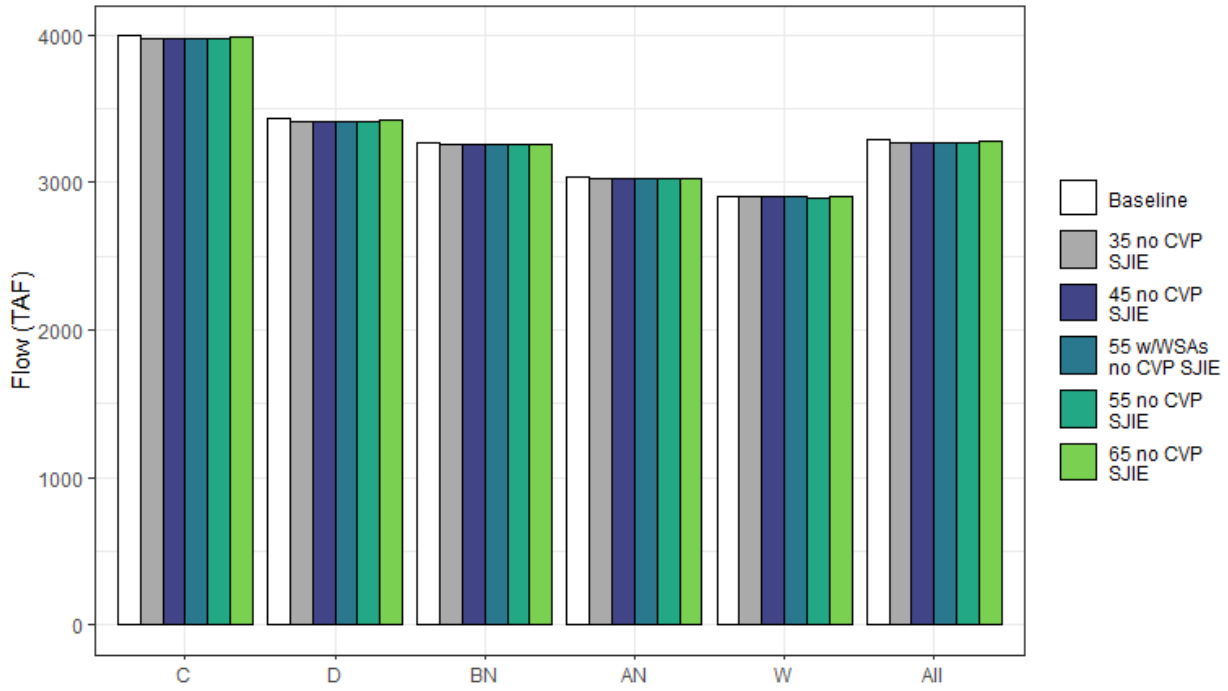

Figure H1a4-232. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

Table H1a4-466. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	3,998	3,971	3,976	3,970	3,981	3,984
D	3,439	3,411	3,417	3,413	3,417	3,423
BN	3,273	3,256	3,257	3,256	3,259	3,261
AN	3,043	3,023	3,023	3,024	3,028	3,031
W	2,902	2,902	2,901	2,900	2,899	2,903
All	3,287	3,270	3,272	3,270	3,274	3,278

H1a4.7.4 Groundwater Pumping by Basin

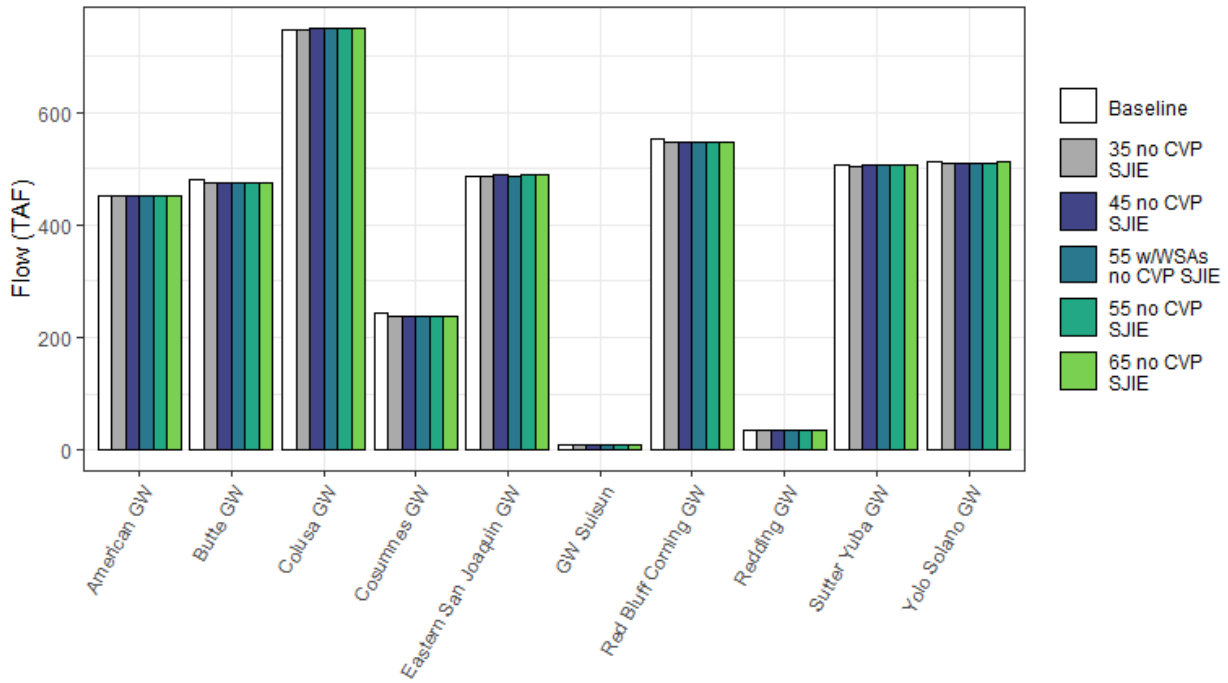

Figure H1a4-233. Annual Average Groundwater Pumping by Basin (TAF/yr).

Table H1a4-467. Annual Average Groundwater Pumping by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
American GW	453	-2	-2	-2	-1	-1
Butte GW	479	-4	-4	-4	-4	-4
Colusa GW	747	1	2	2	2	3
Cosumnes GW	243	-5	-5	-5	-5	-5
Eastern San Joaquin GW	487	0	0	0	2	2
GW Suisun	10	0	0	0	0	0
Red Bluff Corning GW	554	-7	-6	-7	-7	-6
Redding GW	36	0	0	0	0	0
Sutter Yuba GW	506	-1	-1	-1	-1	0
Yolo Solano GW	513	-3	-3	-3	-3	-2

H1a4.7.5 Total Groundwater Recharge

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses to all of the groundwater basins.

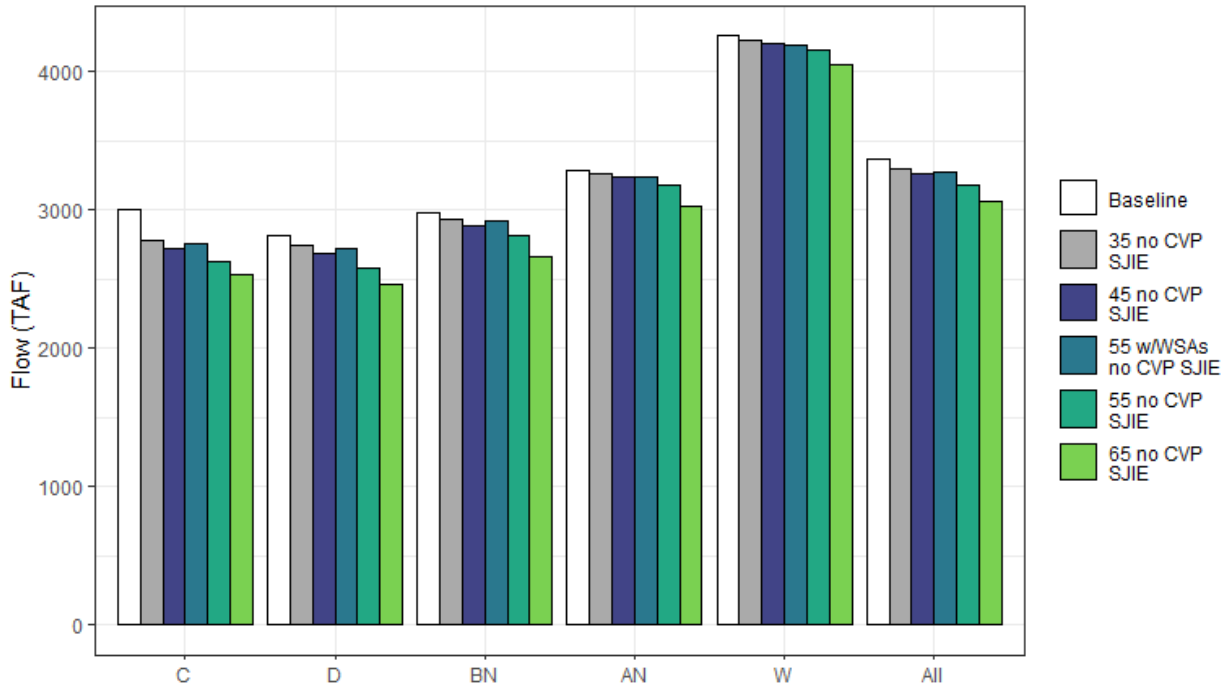

Figure H1a4-234. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

Table H1a4-468. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	3,001	2,777	2,725	2,754	2,622	2,535
D	2,819	2,748	2,687	2,723	2,576	2,459
BN	2,982	2,936	2,892	2,925	2,814	2,660
AN	3,291	3,258	3,234	3,235	3,177	3,028
W	4,264	4,228	4,205	4,193	4,161	4,050
All	3,375	3,299	3,259	3,274	3,182	3,061

H1a4.7.6 Total Groundwater Recharge — Delta Eastside Tributaries

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses to all of the groundwater basins. The groundwater basins underlying the Delta Eastside Tributaries region include the Cosumnes and a portion of the Eastern San Joaquin basins. All sources of recharge within water budget areas 60S and 60N are included in the summary of recharge for the Delta Eastside Tributaries region.

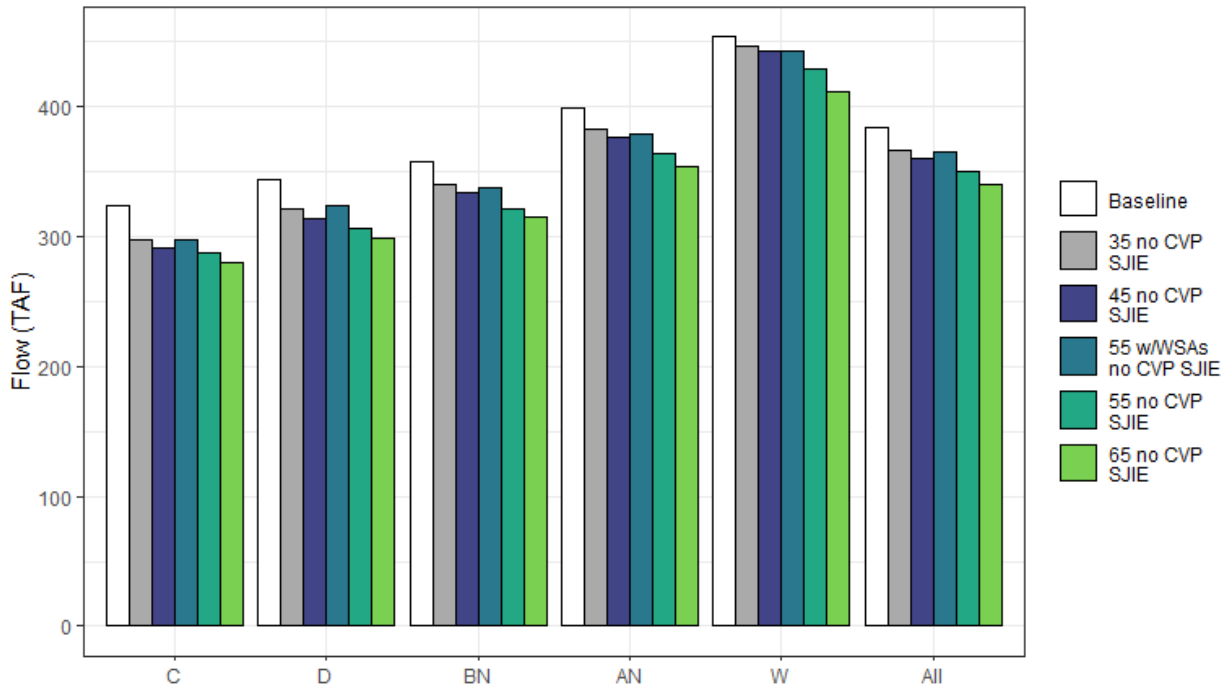

Figure H1a4-235. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a4-469. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	324	297	291	297	287	280
D	344	321	313	323	306	299
BN	357	339	333	337	321	315
AN	399	383	376	379	363	353
W	454	446	443	442	429	411
All	383	366	360	364	350	339

H1a4.7.7 Total Groundwater Recharge — Sacramento River Watershed

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses to all of the groundwater basins. The groundwater basins underlying the Sacramento watershed region include the American, Butte, Red Bluff-Corning, Redding, Sutter-Yuba, Yolo-Solano, and Colusa basins.

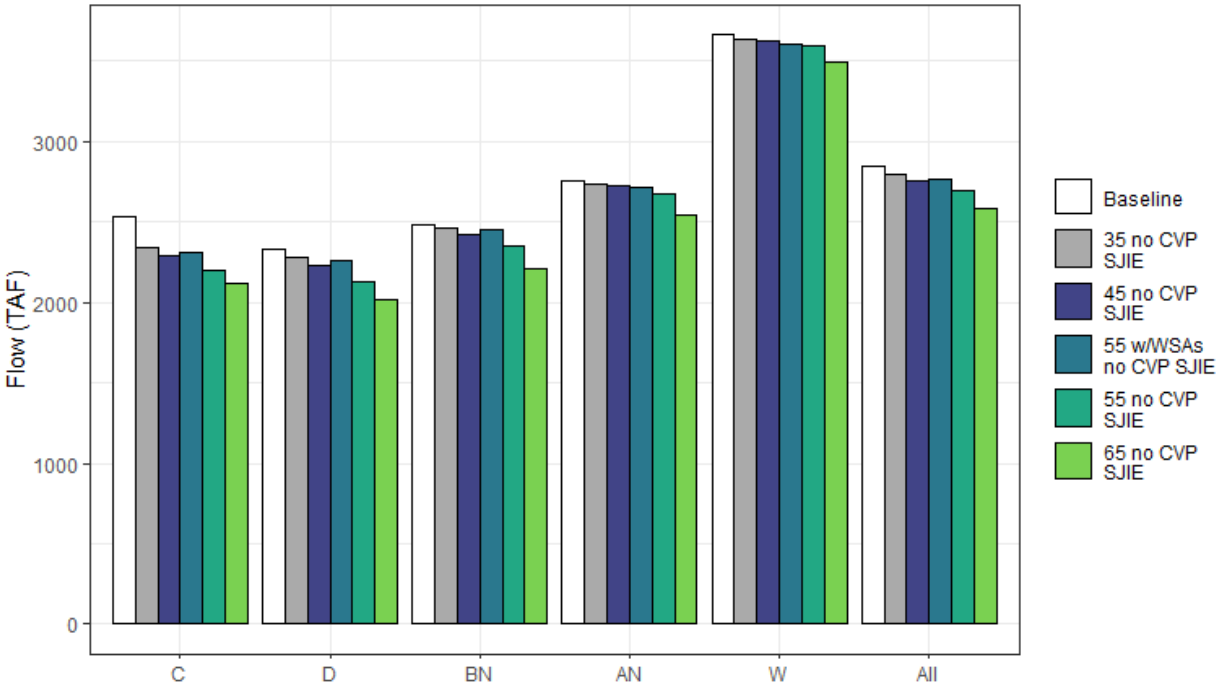

Figure H1a4-236. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a4-470. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	2,534	2,340	2,294	2,315	2,197	2,117
D	2,330	2,286	2,232	2,257	2,130	2,021
BN	2,485	2,459	2,422	2,450	2,356	2,210
AN	2,752	2,737	2,721	2,717	2,677	2,539
W	3,667	3,640	3,621	3,609	3,591	3,498
All	2,849	2,793	2,759	2,769	2,693	2,583

H1a4.7.8 Total Groundwater Recharge by Basin

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses.

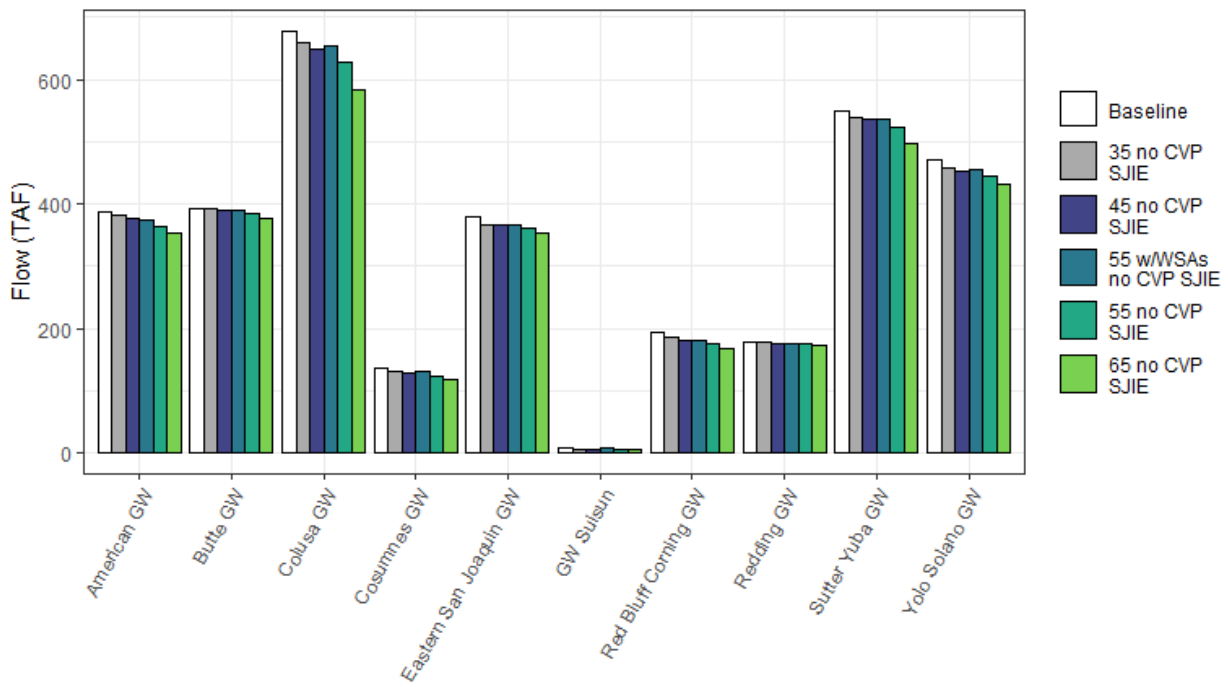

Figure H1a4-237. Annual Average Groundwater Recharge by Basin (TAF/yr).

Table H1a4-471. Annual Average Groundwater Recharge by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
American GW	388	-6	-12	-13	-23	-34
Butte GW	393	-1	-2	-2	-7	-14
Colusa GW	678	-19	-30	-25	-51	-95
Cosumnes GW	137	-5	-9	-7	-14	-19
Eastern San Joaquin GW	380	-13	-14	-12	-20	-25
GW Suisun	9	-2	-3	-1	-4	-4
Red Bluff Corning GW	193	-8	-12	-13	-18	-26
Redding GW	179	-2	-2	-2	-4	-6
Sutter Yuba GW	549	-9	-13	-11	-26	-51
Yolo Solano GW	471	-13	-18	-14	-27	-39

H1a4.7.9 Total Stream-Groundwater Flux

Total stream-groundwater flux represents the net flow from streams to underlying groundwater basins.

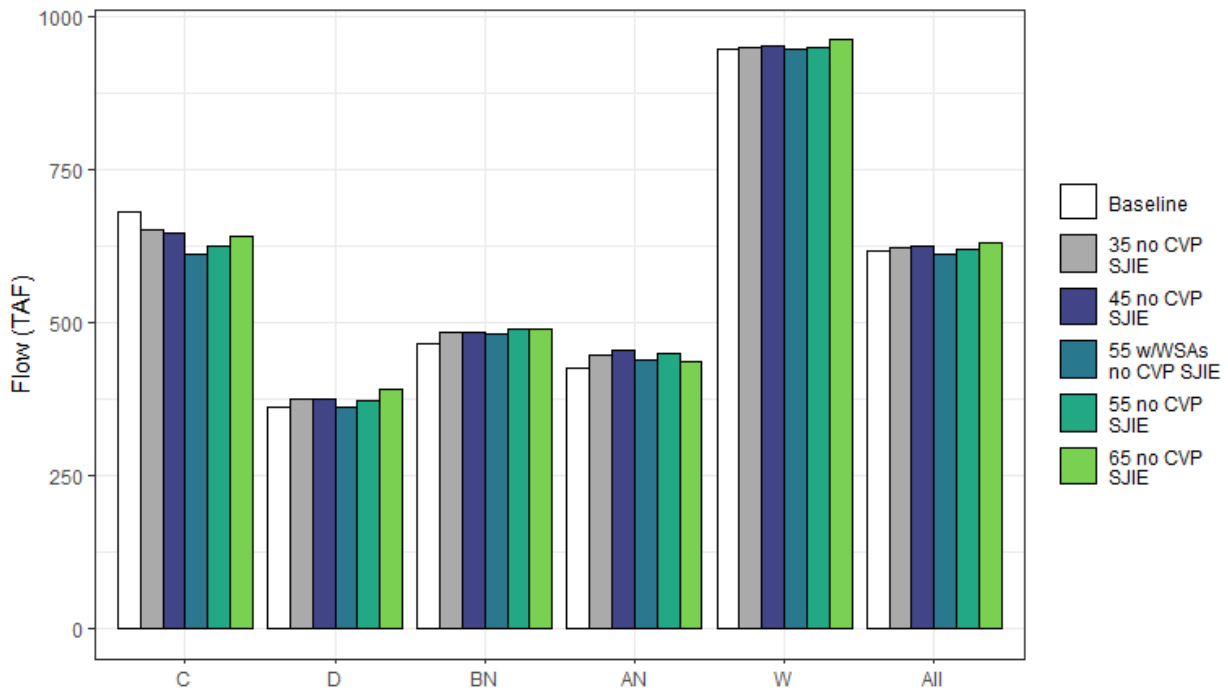

Figure H1a4-238. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

Table H1a4-472. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	680	652	648	612	625	642
D	363	376	375	362	372	391
BN	466	484	484	483	489	491
AN	426	449	456	440	450	437
W	946	949	951	946	948	963
All	618	624	624	612	619	630

H1a4.7.10 Total Stream-Groundwater Flux — Delta Eastside Tributaries

For the Delta Eastside Tributaries, this summary includes stream-groundwater flows associated with the Cosumnes, Mokelumne, and Calaveras River watersheds.

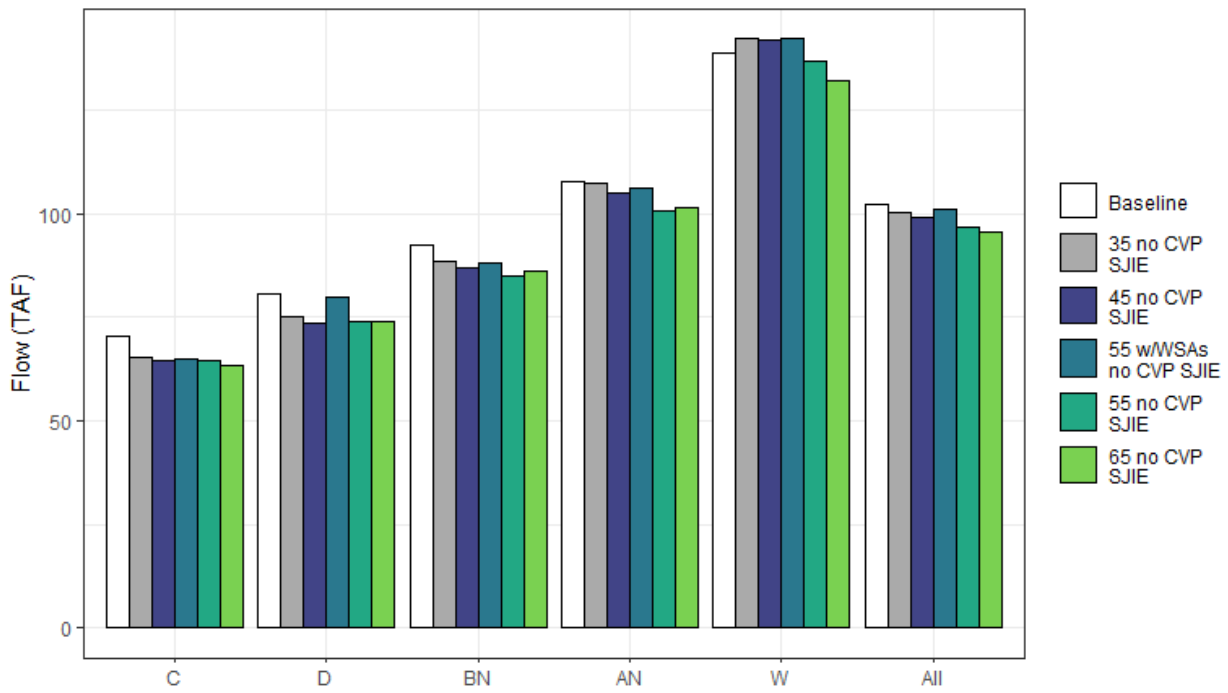

Figure H1a4-239. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a4-473. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	70	65	65	65	65	63
D	81	75	74	80	74	74
BN	92	88	87	88	85	86
AN	108	107	105	106	101	101
W	138	142	142	142	137	132
All	102	100	99	101	97	96

H1a4.7.11 Total Stream-Groundwater Flux — Sacramento River Watershed

For the Sacramento River Watershed, this summary includes all stream-groundwater flows in the American, Butte, Red Bluff-Corning, Redding, Sutter-Yuba, Yolo-Solano, and Colusa basins.

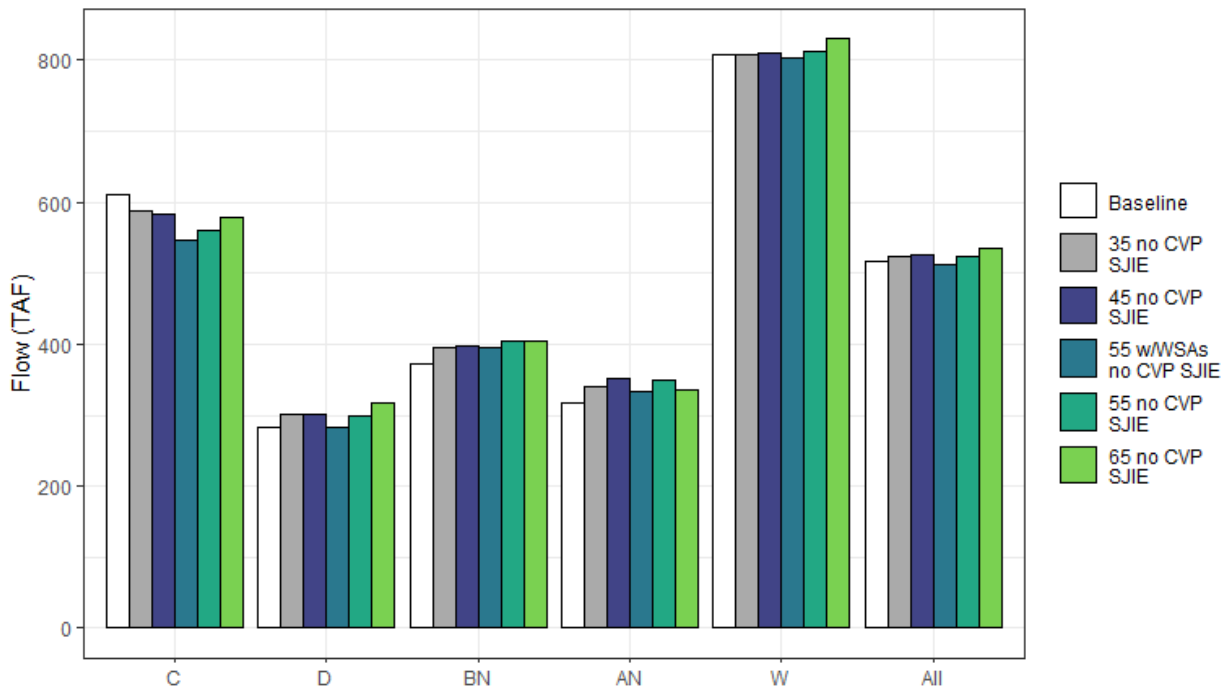

Figure H1a4-240. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a4-474. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
C	610	587	583	547	561	579
D	282	301	301	282	298	317
BN	373	396	397	395	404	405
AN	318	341	351	334	350	336
W	807	807	809	804	811	831
All	516	523	525	511	523	534

H1a4.7.12 Stream-Groundwater Flux by Basin

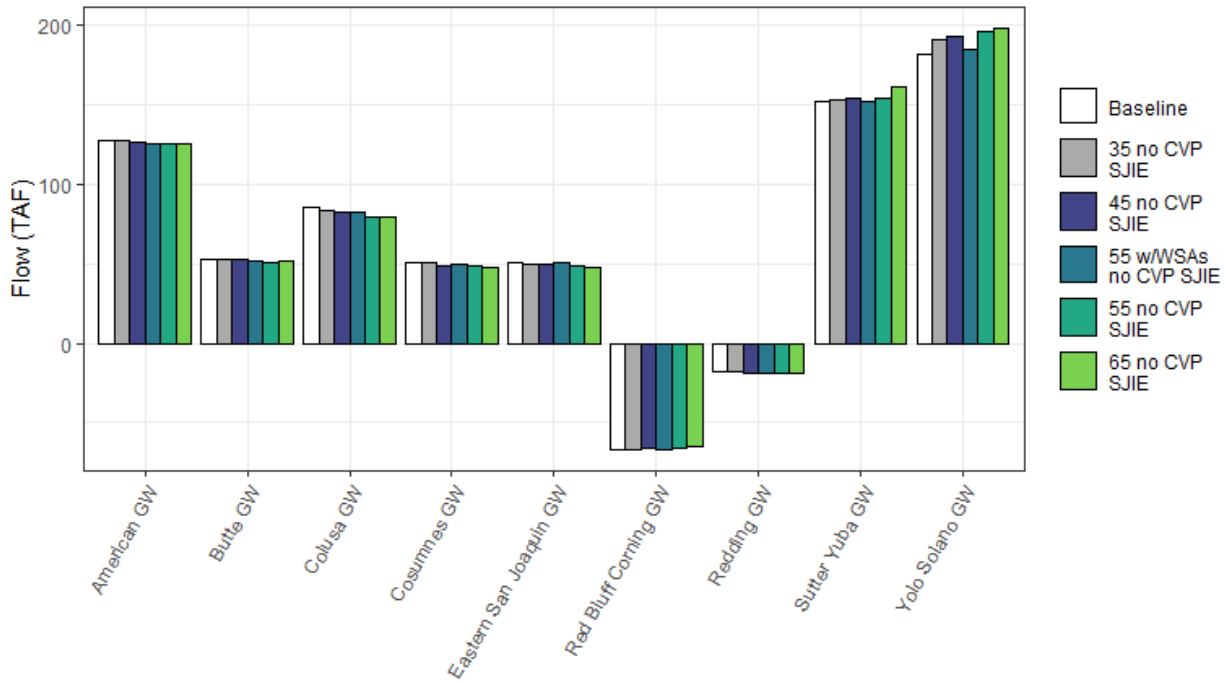

Figure H1a4-241. Stream-Groundwater Flux (Net Groundwater Gain) by Basin (TAF/yr).

Table H1a4-475. Annual Average Stream-Groundwater Flux by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
American GW	128	-1	-1	-3	-3	-2
Butte GW	52	0	0	-1	-1	0
Colusa GW	86	-2	-3	-3	-6	-6
Cosumnes GW	51	-1	-2	-1	-3	-3
Eastern San Joaquin GW	51	-1	-1	0	-3	-3
Red Bluff Corning GW	-67	0	1	0	1	2
Redding GW	-17	-1	-1	-1	-1	-2
Sutter Yuba GW	152	1	2	0	2	9
Yolo Solano GW	182	9	12	3	14	17

H1a4.7.13 Groundwater Storage by Basin

Table H1a4-476. Annual Average Rate of Change in Storage by Basin (TAF/yr).

Basin	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
American GW	-65	-68	-75	-76	-87	-98
Butte GW	-86	-83	-85	-84	-90	-97
Colusa GW	-69	-88	-100	-95	-122	-167
Cosumnes GW	-106	-106	-110	-107	-114	-119
Eastern San Joaquin GW	-108	-120	-122	-119	-129	-135
GW Suisun	-1	-3	-4	-2	-4	-5
Red Bluff Corning GW	-361	-361	-367	-366	-373	-381
Redding GW	143	141	140	141	139	136
Sutter Yuba GW	43	35	31	32	18	-8
Yolo Solano GW	-42	-53	-58	-53	-66	-79

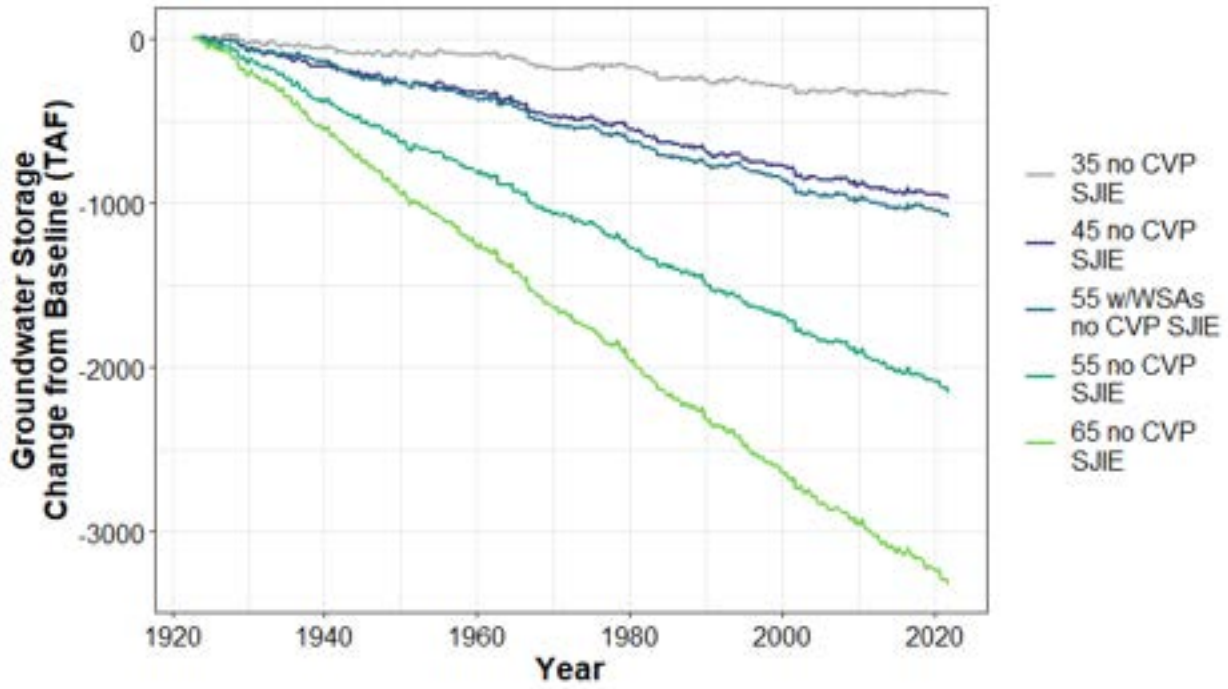

Figure H1a4-242. American River Groundwater Basin End of Year Storage—Change from Baseline (TAF)

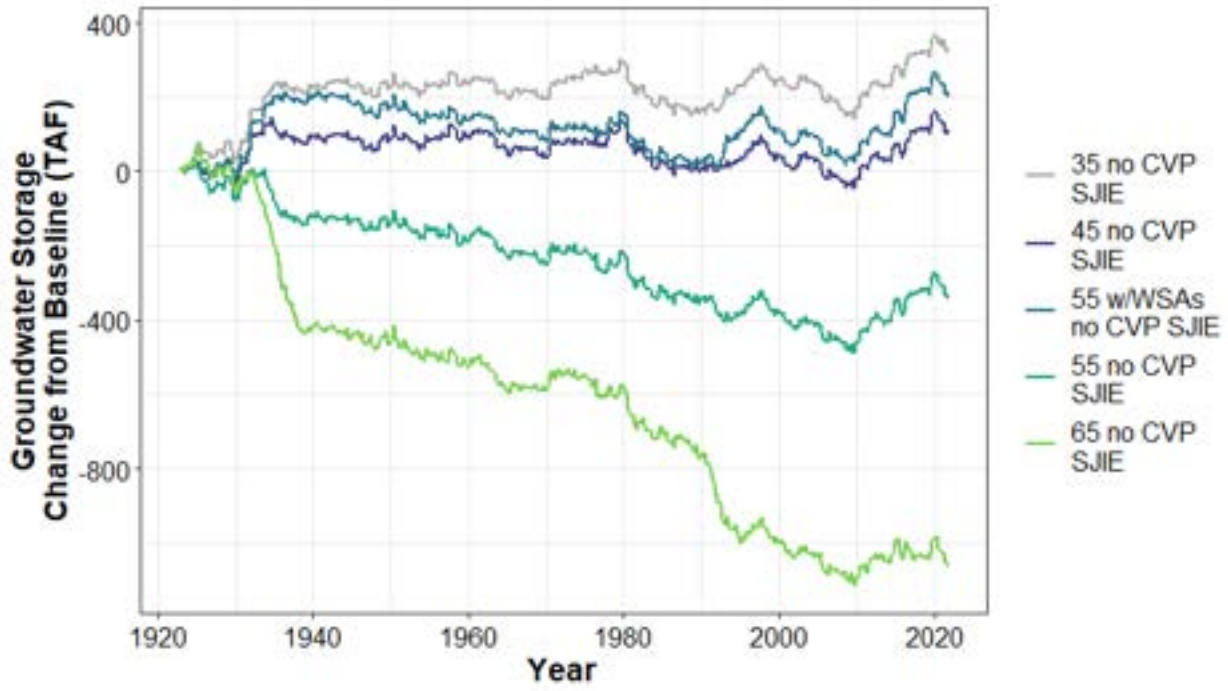

Figure H1a4-243. Butte Groundwater Basin End of Year Storage—Change from Baseline (TAF)

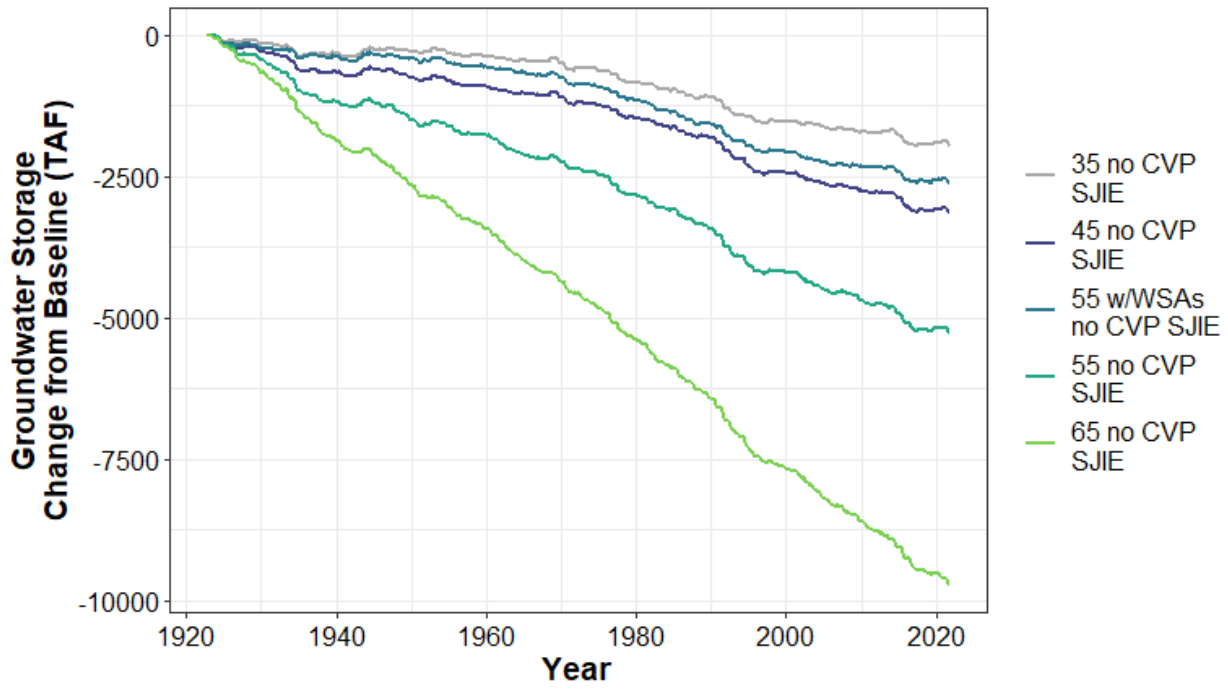

Figure H1a4-244. Colusa Groundwater Basin End of Year Storage—Change from Baseline (TAF)

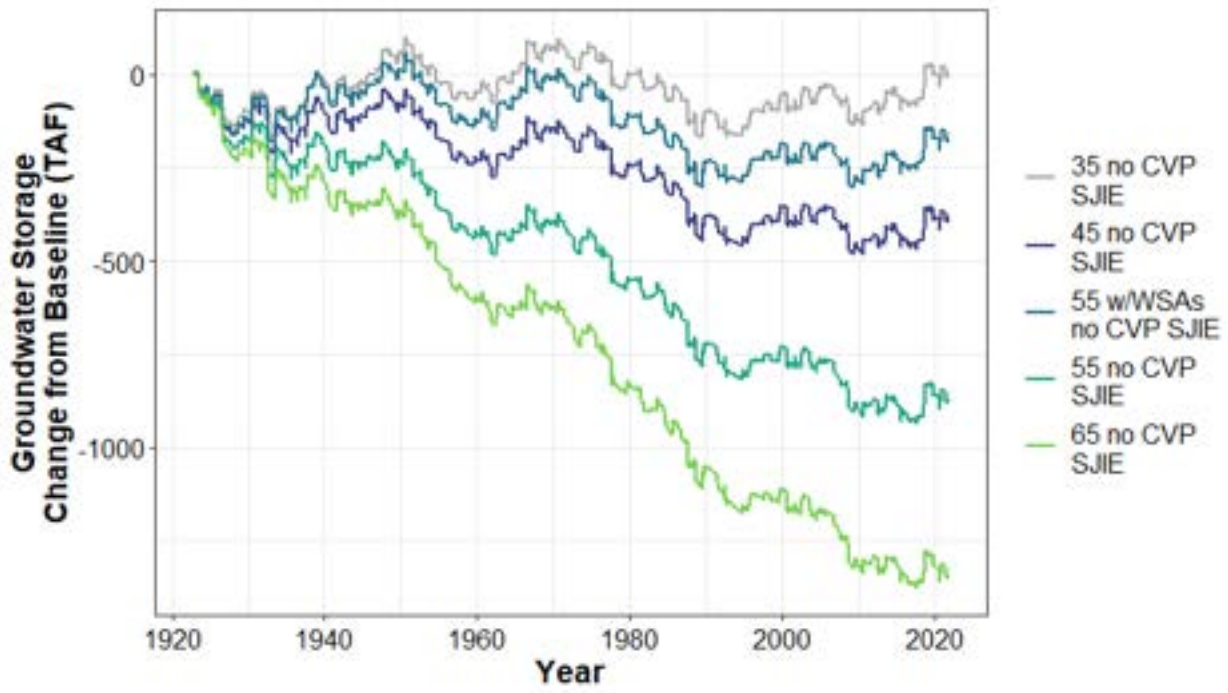

Figure H1a4-245. Cosumnes Groundwater Basin End of Year Storage—Change from Baseline (TAF)

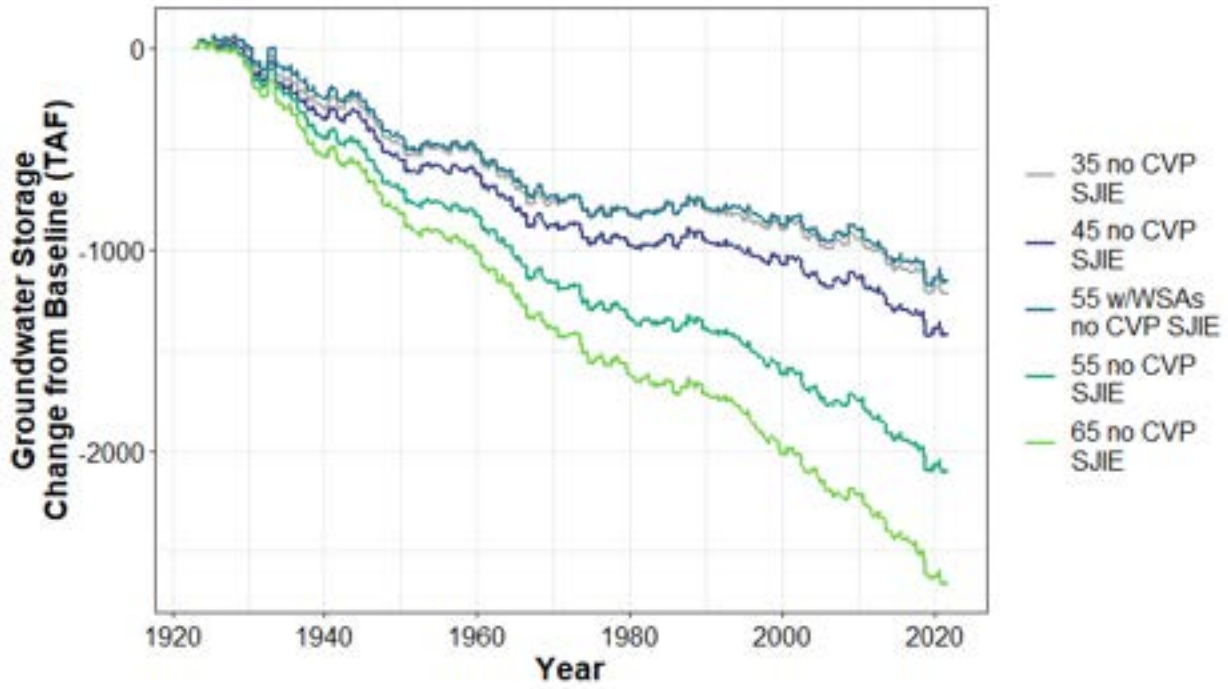

Figure H1a4-246. Eastern San Joaquin Groundwater Basin End of Year Storage—Change from Baseline (TAF)

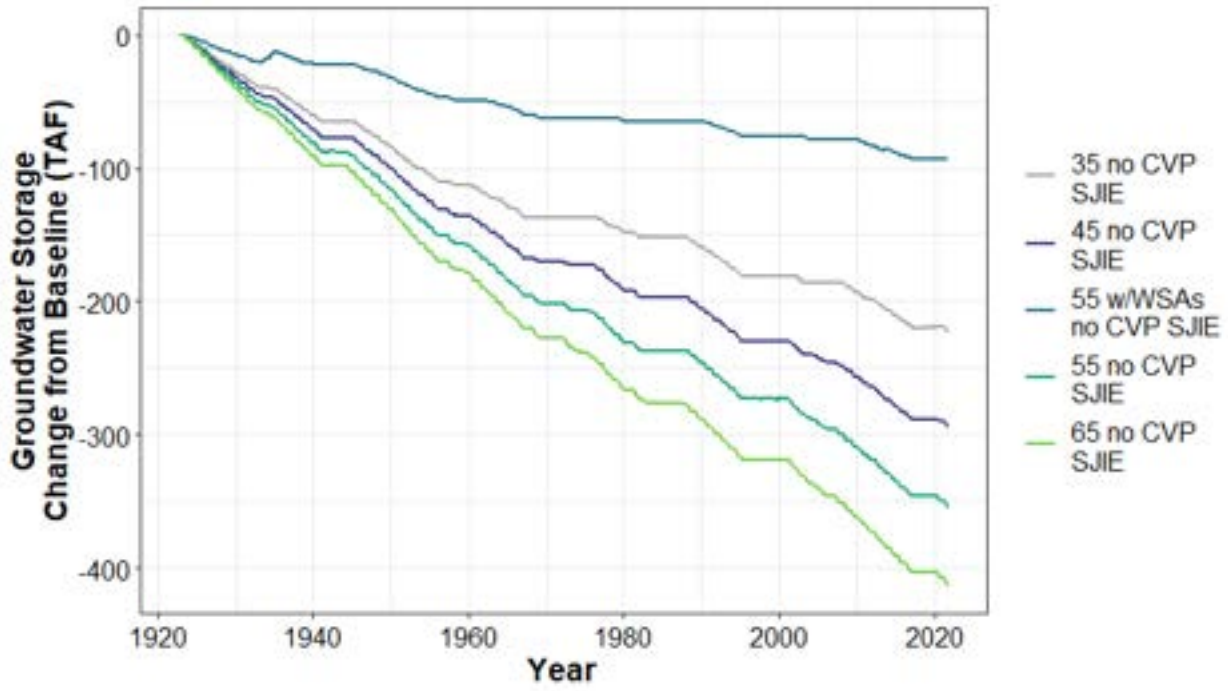

Figure H1a4-247. Suisun Groundwater Basin End of Year Storage—Change from Baseline (TAF)

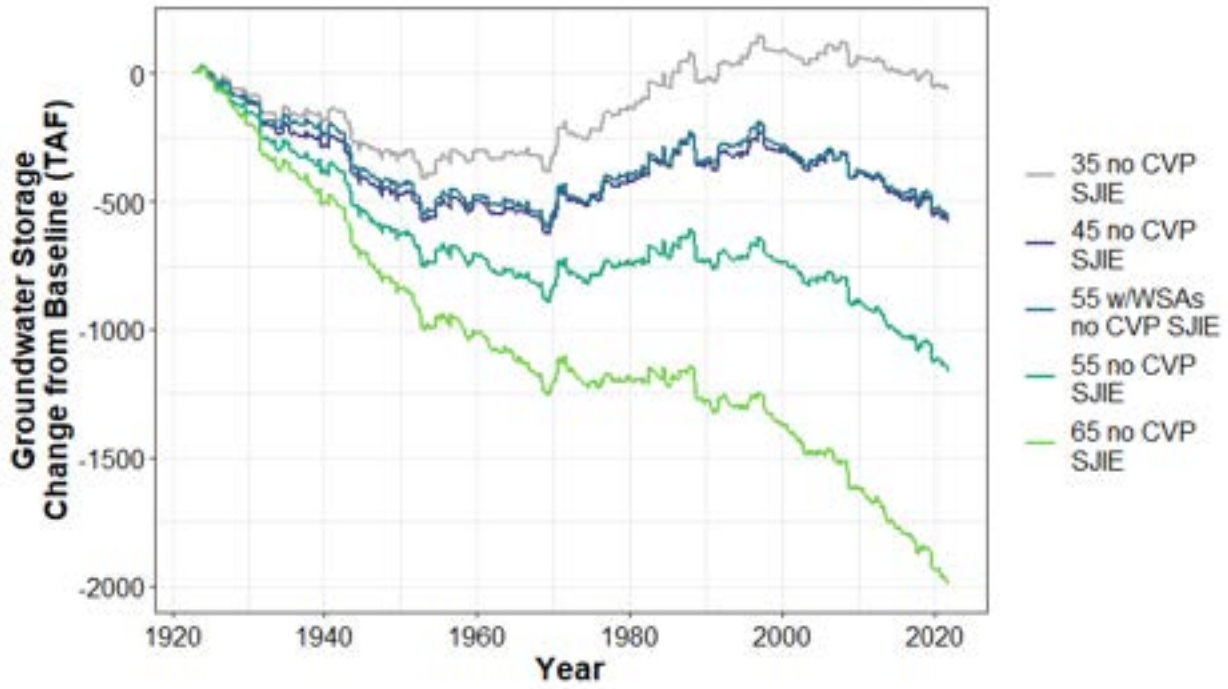

Figure H1a4-248. Red Bluff-Corning Groundwater Basin End of Year Storage—Change from Baseline (TAF)

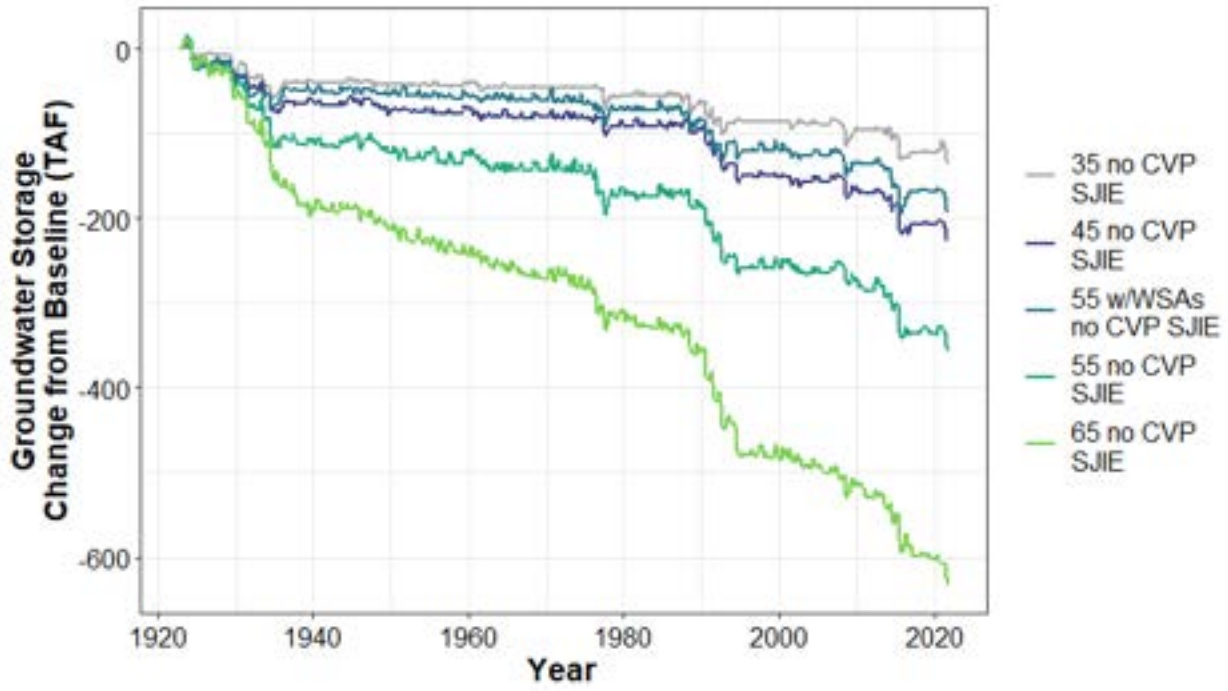

Figure H1a4-249. Redding Groundwater Basin End of Year Storage—Change from Baseline

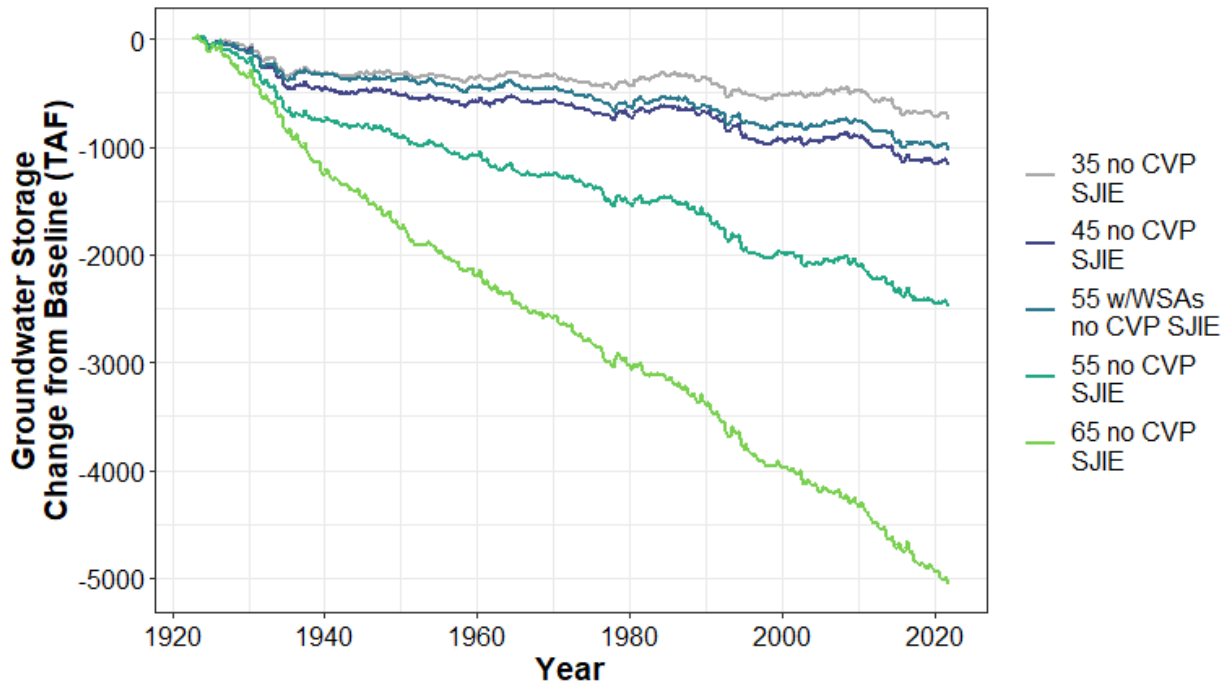

Figure H1a4-250. Sutter-Yuba Groundwater Basin End of Year Storage—Change from Baseline

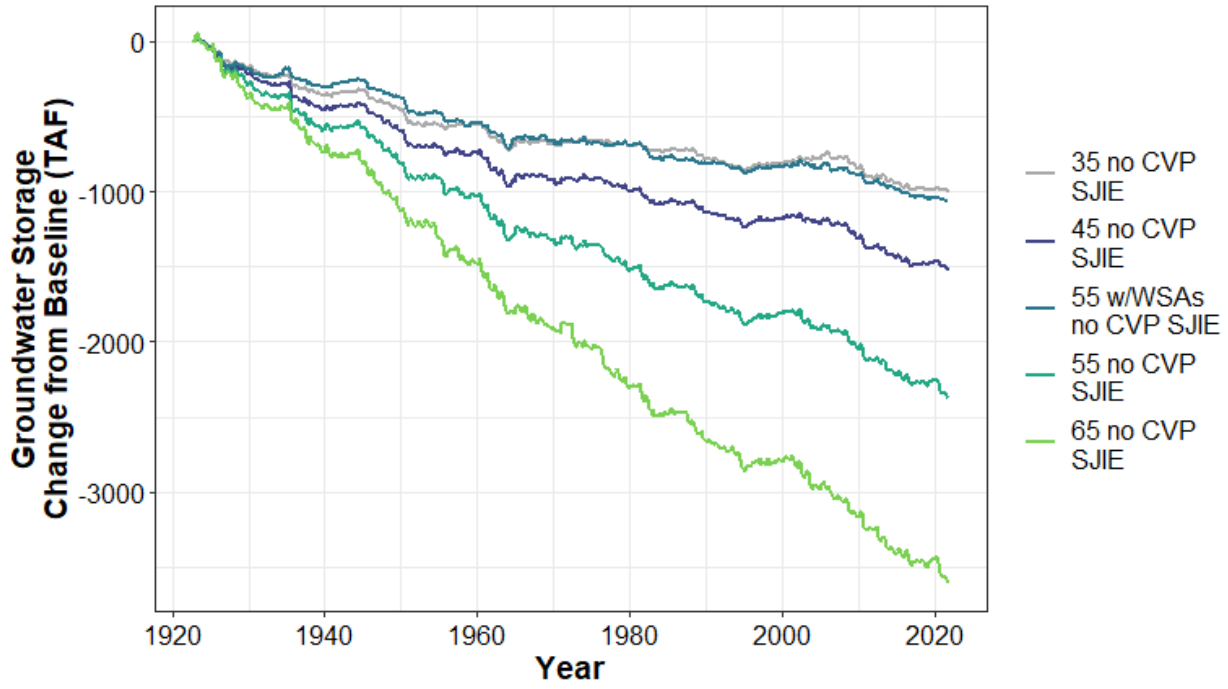

Figure H1a4-251. Yolo-Solano Groundwater Basin End of Year Storage—Change from Baseline

H1a4.8 Unmet Instream Flow Requirements

Unmet instream flow requirements are presented as a count of months and percent of months in which the flow requirement was not met. There are a total of 1,188 months in the 1923–2021 simulation period presented here, though many instream flow requirements are not in effect in every month of the simulation period. The flow requirement was considered unmet if the shortfall was greater than 5% of the monthly requirement. Results are presented for "REG" flow requirements, which represent existing regulatory flow requirements. The VA scenario makes use of a subset of "SWRCB" flow requirements (SWRCB Camanche, SWRCB Folsom, SWRCB Delta, SWRCB Putah Creek, and SWRCB Sacramento at Knights Landing) as well as REG High Flow Channel to implement VA flow requirements. These requirements are always met in the VA scenario.

Table H1a4-477. Number of Months (Percent of Months) with Unmet REG Instream Flow Requirements

Requirement	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
REG American River at Fair Oaks	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)
REG Bear River below Lower Bear Dam	18 (2)	18 (2)	20 (2)	18 (2)	21 (2)	25 (2)
REG Below Little Grass Valley Dam	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)
REG below SFF Tunnel	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)
REG Below Tiger River Regulator	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG Clear Creek below Igo	153 (13)	156 (13)	149 (13)	150 (13)	139 (12)	141 (12)
REG Cole Creek below Diversion Dam	12 (1)	12 (1)	12 (1)	12 (1)	13 (1)	16 (1)
REG D893 H St	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Downstream of Forbestown Dam	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Downstream of Lost Creek Dam	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG Hamilton Branch	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG HighFlow Channel	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
REG Kellogg Creek below Los Vaqueros	194 (16)	194 (16)	194 (16)	194 (16)	194 (16)	194 (16)
REG Little Rubicon below Diversion	22 (2)	22 (2)	22 (2)	22 (2)	22 (2)	22 (2)
REG Lodi1950 Base	10 (1)	10 (1)	11 (1)	10 (1)	10 (1)	11 (1)
REG Lodi1950 HiMayStorage	79 (7)	70 (6)	59 (5)	77 (6)	37 (3)	29 (2)
REG Lodi1950 LoMayStorageHiEOMStorage	48 (4)	83 (7)	133 (11)	62 (5)	211 (18)	268 (23)
REG Lodi1950 LoMayStorageLoEOMStorage	0 (0)	0 (0)	8 (1)	0 (0)	22 (2)	40 (3)
REG Lodi22415 Base	10 (1)	10 (1)	11 (1)	10 (1)	10 (1)	11 (1)
REG Lodi22415 HiPrecipHiEOMStorage	63 (5)	72 (6)	102 (9)	70 (6)	151 (13)	197 (17)
REG Lodi22415_HiPrecipLoEOMStorage	2 (0)	2 (0)	2 (0)	2 (0)	3 (0)	5 (0)
REG Lodi22415 LoPrecipHiEOMStorage	2 (0)	1 (0)	7 (1)	2 (0)	18 (2)	33 (3)
REG LowFlowChannel	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
REG MF American below French Meadows Dam	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)
REG MF American below Interbay Dam	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Middle Yuba below Our House Dam	59 (5)	59 (5)	59 (5)	59 (5)	58 (5)	58 (5)
REG Mormon Ravine	99 (8)	99 (8)	99 (8)	99 (8)	99 (8)	99 (8)
REG NF American below Lake Valley Canal	137 (12)	137 (12)	137 (12)	137 (12)	137 (12)	137 (12)
REG NF Mokelumne below Salt Spring Dam	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG NS Fork Long Canyon below Dam	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Rubicon below Rubicon Dam	21 (2)	21 (2)	21 (2)	21 (2)	21 (2)	21 (2)
REG Rubicon River below Hell Hole	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Silver Creek below Oyster Creek	93 (8)	93 (8)	93 (8)	93 (8)	93 (8)	93 (8)
REG Stony Creek below Black Butte	4 (0)	20 (2)	34 (3)	25 (2)	47 (4)	76 (6)
REG Stony Creek below East Park Dam	3 (0)	19 (2)	31 (3)	23 (2)	43 (4)	73 (6)
REG Stony Creek below Northside Dam	4 (0)	17 (1)	27 (2)	22 (2)	37 (3)	62 (5)
REG Stony Creek below Stony Gorge	4 (0)	15 (1)	27 (2)	21 (2)	38 (3)	66 (6)
REG Trinity River below Lewiston	3 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Yuba River near Marysville	3 (0)	1 (0)	2 (0)	3 (0)	4 (0)	12 (1)
REG Yuba River near Smartville	3 (0)	2 (0)	2 (0)	3 (0)	5 (0)	20 (2)

Table H1a4-478. Number of Months (Percent of Months) with Unmet SWRCB Instream Flow Requirements

Requirement	Baseline	35 no CVP SJIE	45 no CVP SJIE	55 w/WSAs no CVP SJIE	55 no CVP SJIE	65 no CVP SJIE
SWRCB Black Butte	-	10 (1)	22 (2)	14 (1)	33 (3)	59 (5)
SWRCB Black Butte Inflow	-	0 (0)	0 (0)	0 (0)	7 (1)	23 (2)
SWRCB Cache Creek	-	0 (0)	0 (0)	0 (0)	1 (0)	4 (0)
SWRCB Clear Lake	-	31 (3)	51 (4)	52 (4)	64 (5)	81 (7)
SWRCB Cosumnes River	-	6 (1)	8 (1)	6 (1)	10 (1)	32 (3)
SWRCB Oroville	-	5 (0)	6 (1)	9 (1)	12 (1)	16 (1)
SWRCB Stony Creek	-	3 (0)	8 (1)	5 (0)	14 (1)	25 (2)
SWRCB Thomes Creek	-	0 (0)	0 (0)	0 (0)	2 (0)	13 (1)