Appendix H1a5

Sacramento Water Allocation Model Results for Export Constraint Sensitivity Analysis

H1a5.1 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 and the 55% UF with water supply adjustments (WSAs) scenario (55 w/WSAs) in which neither the State Water Project (SWP) nor the Central Valley Project (CVP) continue to operate to the I:E requirement. Each of these scenarios is labeled with the applicable scenario name with the suffix, "no SJIE." 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 SWP and 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.

H1a5.2 Streamflows

H1a5.2.1 American River below Folsom Reservoir (SWRCB Folsom)

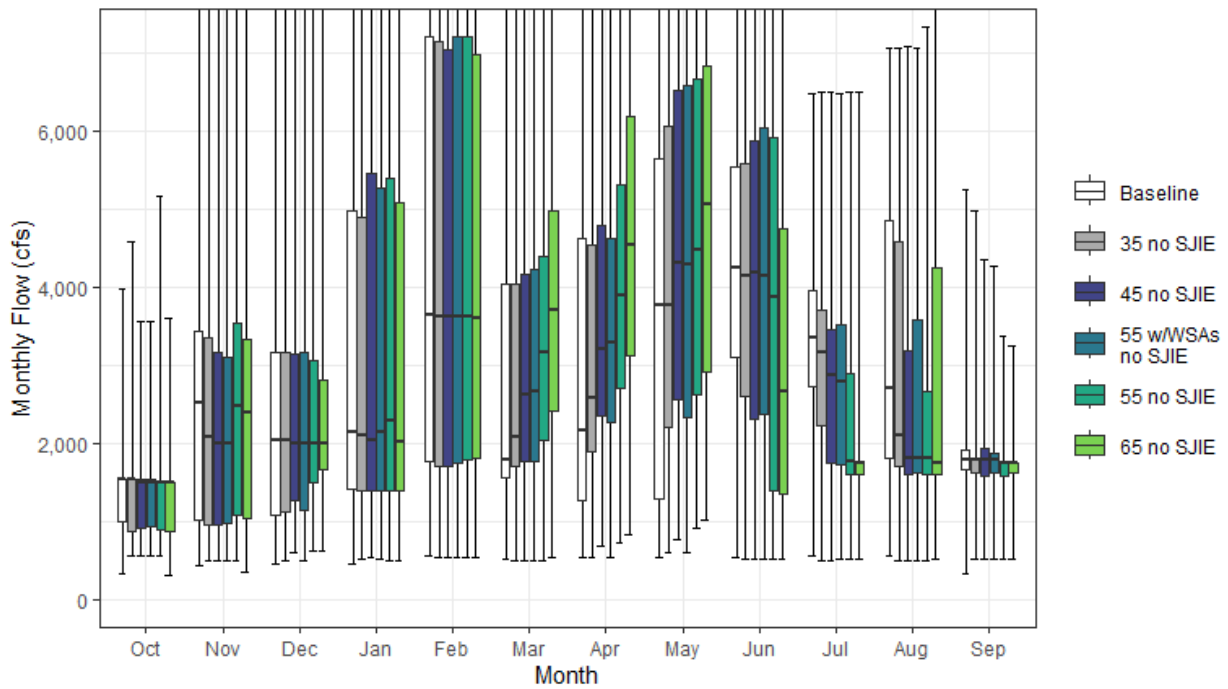

Figure H1a5-1. American River Streamflow below Folsom Reservoir Monthly Boxplot (cfs)

Table H1a5-1. 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 SJIE													
0%	550	497	485	522	531	497	543	608	504	504	504	513	423
10%	702	660	743	736	1,356	1,295	1,496	1,355	1,177	1,574	1,474	1,330	1,099
25%	859	961	1,117	1,389	1,705	1,712	1,883	2,206	2,606	2,219	1,705	1,626	1,447
50%	1,539	2,075	2,029	2,106	3,629	2,088	2,583	3,769	4,149	3,156	2,102	1,792	2,015
75%	1,541	3,355	3,167	4,895	7,138	4,030	4,542	6,068	5,573	3,708	4,584	1,800	3,303
90%	1,831	4,424	8,885	9,649	11,266	8,402	6,935	8,662	7,491	4,382	5,456	2,702	4,270
100%	4,583	16,628	20,759	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,058	4,979	7,087
Mean	1,419	2,602	3,427	4,083	5,178	3,502	3,582	4,502	4,540	3,056	2,924	1,953	2,453
45 no SJIE													
0%	550	497	605	525	531	497	681	756	504	504	504	514	445
10%	675	660	774	720	1,391	1,390	1,800	1,712	1,028	1,526	1,241	1,330	1,124
25%	900	945	1,274	1,382	1,697	1,756	2,357	2,552	2,317	1,749	1,603	1,582	1,431
50%	1,503	2,001	1,997	2,040	3,619	2,628	3,206	4,313	4,192	2,874	1,800	1,791	2,090
75%	1,540	3,163	3,146	5,448	7,044	4,169	4,797	6,524	5,863	3,460	3,192	1,942	3,286
90%	1,683	4,525	8,876	9,646	11,266	8,402	6,926	8,874	8,379	4,114	5,398	2,763	4,205
100%	3,556	14,962	20,196	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,073	4,342	7,014
Mean	1,358	2,496	3,414	4,085	5,129	3,681	3,937	4,863	4,517	2,781	2,673	1,901	2,457
55 w/WSAs no SJIE													
0%	550	497	485	522	531	497	543	608	504	504	504	513	423
10%	675	660	744	742	1,393	1,331	1,491	1,349	1,088	1,533	1,241	1,352	1,109
25%	936	983	1,137	1,394	1,750	1,771	2,265	2,336	2,379	1,722	1,629	1,618	1,393
50%	1,503	2,001	2,000	2,131	3,629	2,661	3,288	4,283	4,151	2,792	1,801	1,791	2,073
75%	1,541	3,090	3,161	5,273	7,203	4,225	4,614	6,572	6,035	3,523	3,580	1,864	3,311
90%	1,868	4,064	8,818	9,649	11,266	8,402	6,925	8,987	7,856	4,067	5,388	2,851	4,324
100%	3,556	15,225	19,979	26,148	31,620	14,563	15,497	13,631	14,215	6,483	7,059	4,262	6,964
Mean	1,383	2,448	3,436	4,088	5,250	3,697	3,916	4,708	4,566	2,765	2,670	1,880	2,455
55 no SJIE													
0%	550	497	611	495	531	497	722	904	505	504	504	514	468
10%	702	670	899	929	1,395	1,527	2,131	1,714	931	1,386	1,241	1,240	1,103
25%	890	1,079	1,484	1,397	1,789	2,045	2,703	2,622	1,385	1,603	1,591	1,582	1,461
50%	1,502	2,477	1,999	2,291	3,621	3,155	3,890	4,481	3,876	1,755	1,797	1,754	2,056
75%	1,503	3,528	3,057	5,400	7,203	4,391	5,311	6,673	5,912	2,880	2,655	1,754	3,273
90%	1,754	4,895	8,875	9,649	11,266	8,381	7,023	8,987	7,871	3,777	5,401	1,934	4,287
100%	5,153	16,256	21,504	26,148	31,620	14,563	15,497	13,641	14,215	6,487	7,332	3,376	7,059
Mean	1,385	2,807	3,527	4,220	5,177	3,969	4,397	4,979	4,128	2,235	2,504	1,668	2,467
65 no SJIE													
0%	314	344	611	495	531	542	822	1,019	504	504	504	514	495
10%	675	722	887	951	1,400	1,722	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	1,998	2,015	3,598	3,707	4,530	5,052	2,654	1,754	1,754	1,753	2,080
75%	1,504	3,319	2,801	5,088	6,979	4,977	6,176	6,828	4,737	1,756	4,247	1,754	3,171
90%	1,911	4,605	8,743	9,565	10,555	8,462	7,734	9,269	6,652	3,310	5,871	1,839	4,253
100%	3,590	15,454	20,333	26,143	31,620	14,563	15,497	12,578	13,950	6,487	7,922	3,250	6,930
Mean	1,380	2,661	3,447	4,119	5,057	4,395	4,965	5,250	3,481	1,986	2,814	1,681	2,482

Table H1a5-2. 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 SJIE												
C	1,259	1,553	1,258	969	1,203	1,320	1,560	1,890	2,128	1,432	1,328	1,129
D	1,228	1,982	1,890	1,377	2,456	1,976	2,245	2,820	2,796	2,645	1,945	1,646
BN	1,400	2,481	2,385	2,327	4,113	2,507	3,161	3,734	3,960	3,434	2,580	1,768
AN	1,266	3,330	3,192	4,981	6,326	4,779	3,402	4,687	4,792	3,385	3,063	3,149
W	1,719	3,402	6,464	8,482	9,508	5,904	5,981	7,542	7,370	3,853	4,654	2,256
All	1,419	2,602	3,427	4,083	5,178	3,502	3,582	4,502	4,540	3,056	2,924	1,953
45 no SJIE												
C	1,225	1,430	1,277	1,015	1,281	1,369	1,761	1,997	1,928	1,284	1,101	1,127
D	1,212	1,950	1,927	1,401	2,421	2,379	2,838	3,494	2,481	2,118	1,814	1,633
BN	1,357	2,190	2,338	2,224	3,940	2,771	3,746	4,376	4,104	3,061	2,091	1,757
AN	1,261	3,093	3,207	5,109	6,154	4,843	3,722	4,924	4,983	3,057	3,002	2,596
W	1,574	3,419	6,408	8,459	9,511	5,982	6,109	7,679	7,467	3,779	4,379	2,323
All	1,358	2,496	3,414	4,085	5,129	3,681	3,937	4,863	4,517	2,781	2,673	1,901
55 w/WSAs no SJIE												
C	1,225	1,495	1,253	980	1,493	1,226	1,490	1,793	1,946	1,346	1,077	1,149
D	1,248	1,848	1,899	1,510	2,578	2,231	2,501	2,903	2,736	2,015	1,999	1,617
BN	1,385	2,286	2,375	2,243	4,097	2,857	3,764	4,251	3,844	3,168	2,294	1,788
AN	1,247	2,838	3,218	5,019	6,327	4,861	3,895	5,131	5,072	3,122	2,915	2,312
W	1,619	3,344	6,486	8,433	9,511	6,156	6,351	7,706	7,561	3,673	4,153	2,349
All	1,383	2,448	3,436	4,088	5,250	3,697	3,916	4,708	4,566	2,765	2,670	1,880
55 no SJIE												
C	1,242	1,581	1,317	1,184	1,421	1,558	1,897	2,038	1,593	1,155	1,070	1,116
D	1,272	2,291	2,042	1,543	2,511	2,722	3,345	3,386	1,821	1,602	1,696	1,599
BN	1,317	2,537	2,411	2,468	4,084	3,163	4,495	4,709	3,320	1,812	2,035	1,729
AN	1,220	3,556	3,307	5,173	5,987	5,128	4,514	5,304	4,480	2,125	2,824	1,757
W	1,653	3,711	6,588	8,530	9,504	6,215	6,394	7,756	7,544	3,588	4,031	1,938
All	1,385	2,807	3,527	4,220	5,177	3,969	4,397	4,979	4,128	2,235	2,504	1,668
65 no SJIE												
C	1,242	1,552	1,357	1,105	1,523	1,831	2,162	2,030	1,504	1,061	1,082	1,259
D	1,269	2,187	2,005	1,496	2,397	3,173	3,922	3,729	1,829	1,601	1,601	1,599
BN	1,345	2,416	2,361	2,403	3,750	3,751	5,281	5,052	2,926	1,732	1,801	1,729
AN	1,220	3,153	3,263	5,240	5,804	5,705	5,121	5,813	3,003	1,837	2,832	1,754
W	1,621	3,558	6,380	8,289	9,421	6,541	6,961	7,984	6,291	2,983	5,262	1,905
All	1,380	2,661	3,447	4,119	5,057	4,395	4,965	5,250	3,481	1,986	2,814	1,681

H1a5.2.2 American River above Confluence with Sacramento River (SWRCB American River)

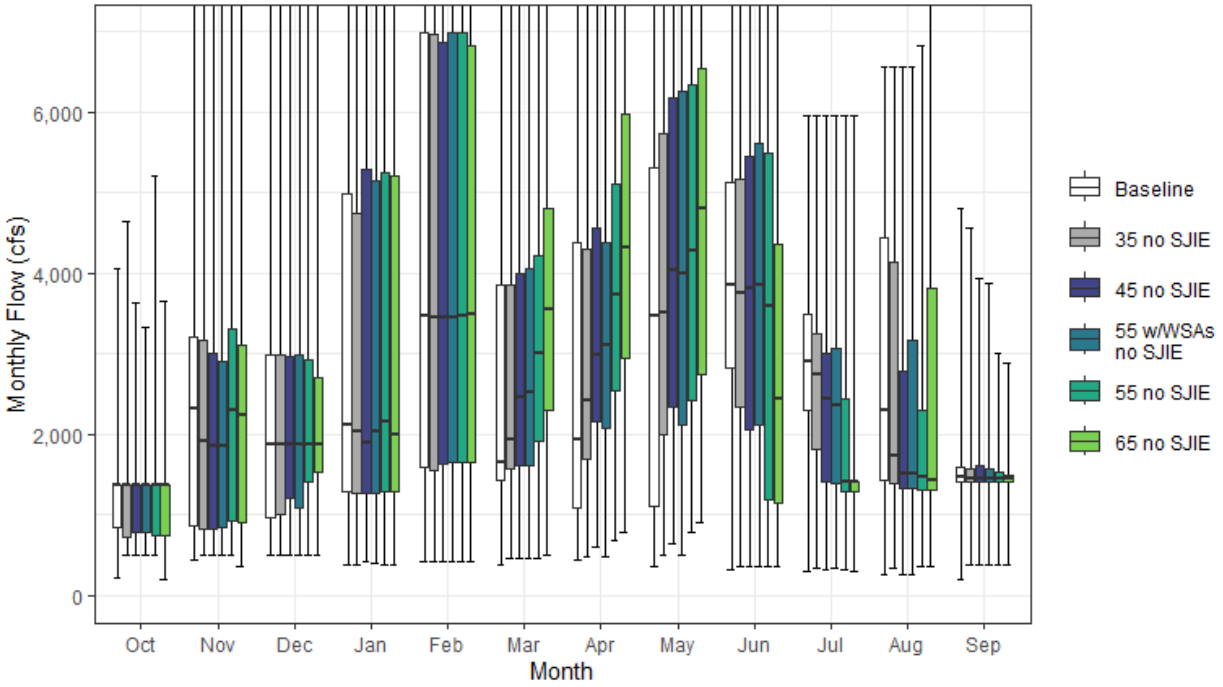

Figure H1a5-2. American River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-3. 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 SJIE													
0%	500	500	500	387	416	449	469	502	363	347	332	375	338
10%	551	566	656	621	1,276	1,204	1,312	1,164	942	1,277	1,155	1,127	974
25%	718	825	1,012	1,276	1,555	1,559	1,693	1,997	2,333	1,813	1,382	1,399	1,296
50%	1,365	1,905	1,865	2,042	3,458	1,942	2,414	3,514	3,759	2,745	1,722	1,457	1,853
75%	1,366	3,158	2,990	4,745	6,963	3,849	4,306	5,723	5,159	3,253	4,140	1,571	3,125
90%	1,653	4,197	8,697	9,417	11,170	8,214	6,667	8,272	7,043	3,909	4,989	2,407	4,078
100%	4,643	16,360	20,429	26,156	31,483	14,478	15,081	13,158	13,649	5,960	6,550	4,560	6,886
Mean	1,257	2,447	3,298	3,981	5,064	3,358	3,385	4,230	4,189	2,646	2,553	1,672	2,290
45 no SJIE													
0%	500	500	500	417	416	449	603	645	363	316	250	375	359
10%	544	566	658	617	1,278	1,256	1,619	1,515	810	1,159	995	1,127	1,000
25%	773	823	1,206	1,276	1,620	1,619	2,151	2,342	2,063	1,414	1,330	1,398	1,300
50%	1,365	1,861	1,864	1,900	3,458	2,460	2,993	4,031	3,802	2,441	1,517	1,457	1,940
75%	1,366	3,011	2,970	5,292	6,870	3,986	4,561	6,171	5,453	3,011	2,784	1,602	3,108
90%	1,540	4,332	8,689	9,415	11,170	8,214	6,658	8,480	7,915	3,649	4,933	2,401	4,017
100%	3,627	14,723	19,875	26,156	31,483	14,478	15,081	13,157	13,649	5,960	6,564	3,939	6,815
Mean	1,204	2,349	3,297	3,988	5,021	3,538	3,734	4,589	4,171	2,387	2,316	1,627	2,299
55 w/WSAs no SJIE													
0%	500	500	500	388	416	449	469	502	363	347	250	375	338
10%	544	566	656	621	1,279	1,219	1,305	1,160	855	1,201	995	1,146	979
25%	791	846	1,089	1,276	1,642	1,619	2,069	2,121	2,108	1,388	1,322	1,400	1,251
50%	1,365	1,861	1,864	2,042	3,458	2,509	3,103	3,987	3,848	2,361	1,517	1,457	1,919
75%	1,366	2,909	2,985	5,146	6,982	4,051	4,377	6,262	5,613	3,073	3,162	1,571	3,117
90%	1,689	3,834	8,631	9,417	11,170	8,214	6,657	8,611	7,401	3,603	4,923	2,488	4,126
100%	3,322	14,982	19,662	26,156	31,483	14,478	15,081	13,153	13,649	5,956	6,550	3,863	6,766
Mean	1,228	2,301	3,318	3,990	5,139	3,552	3,714	4,435	4,218	2,366	2,310	1,606	2,296
55 no SJIE													
0%	500	500	500	387	416	449	687	789	363	307	356	375	382
10%	570	584	809	803	1,281	1,397	1,960	1,545	731	1,138	995	1,040	980
25%	740	931	1,403	1,294	1,658	1,918	2,539	2,421	1,185	1,282	1,310	1,398	1,326
50%	1,365	2,301	1,864	2,150	3,462	3,007	3,729	4,270	3,594	1,404	1,460	1,455	1,903
75%	1,365	3,308	2,928	5,244	6,982	4,216	5,098	6,338	5,491	2,446	2,288	1,520	3,107
90%	1,581	4,665	8,692	9,417	11,170	8,193	6,796	8,614	7,416	3,320	4,935	1,594	4,095
100%	5,203	15,995	21,161	26,156	31,483	14,478	15,081	13,163	13,649	5,960	6,816	2,999	6,859
Mean	1,244	2,651	3,408	4,122	5,069	3,839	4,199	4,711	3,798	1,872	2,159	1,417	2,315
65 no SJIE													
0%	193	350	500	387	416	493	784	898	363	302	356	375	407
10%	544	612	796	818	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	2,238	1,864	1,991	3,492	3,554	4,323	4,810	2,433	1,404	1,426	1,455	1,930
75%	1,365	3,102	2,703	5,214	6,821	4,810	5,972	6,539	4,356	1,405	3,812	1,499	2,997
90%	1,730	4,402	8,558	9,412	10,598	8,287	7,447	8,903	6,219	2,865	5,393	1,569	4,065
100%	3,656	15,207	20,011	26,152	31,483	14,478	15,081	12,119	13,388	5,960	7,391	2,876	6,735
Mean	1,239	2,510	3,332	4,026	4,956	4,261	4,767	4,992	3,174	1,638	2,465	1,429	2,334

Table H1a5-4. 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 SJIE												
C	1,101	1,417	1,155	860	1,115	1,201	1,388	1,691	1,871	1,154	1,061	938
D	1,073	1,832	1,787	1,261	2,335	1,834	2,062	2,597	2,503	2,244	1,614	1,414
BN	1,245	2,309	2,240	2,222	4,013	2,371	2,969	3,470	3,619	2,999	2,210	1,498
AN	1,102	3,169	3,058	4,936	6,231	4,620	3,196	4,399	4,426	2,938	2,667	2,797
W	1,545	3,244	6,316	8,371	9,372	5,747	5,758	7,195	6,928	3,396	4,208	1,912
All	1,257	2,447	3,298	3,981	5,064	3,358	3,385	4,230	4,189	2,646	2,553	1,672
45 no SJIE												
C	1,076	1,302	1,187	917	1,205	1,257	1,592	1,800	1,683	1,017	846	936
D	1,068	1,808	1,841	1,294	2,307	2,235	2,649	3,271	2,204	1,757	1,511	1,422
BN	1,207	2,034	2,207	2,128	3,845	2,635	3,544	4,108	3,764	2,644	1,738	1,497
AN	1,104	2,941	3,084	5,064	6,061	4,683	3,511	4,631	4,613	2,619	2,607	2,259
W	1,411	3,267	6,266	8,349	9,375	5,823	5,884	7,330	7,023	3,324	3,940	1,977
All	1,204	2,349	3,297	3,988	5,021	3,538	3,734	4,589	4,171	2,387	2,316	1,627
55 w/WSAs no SJIE												
C	1,069	1,362	1,161	877	1,408	1,111	1,325	1,604	1,699	1,077	824	958
D	1,102	1,707	1,810	1,400	2,462	2,090	2,316	2,686	2,452	1,642	1,680	1,398
BN	1,235	2,124	2,243	2,144	4,002	2,716	3,562	3,979	3,503	2,740	1,933	1,527
AN	1,090	2,694	3,095	4,976	6,231	4,701	3,681	4,836	4,700	2,682	2,523	1,990
W	1,455	3,193	6,343	8,323	9,375	5,995	6,122	7,356	7,116	3,220	3,719	2,002
All	1,228	2,301	3,318	3,990	5,139	3,552	3,714	4,435	4,218	2,366	2,310	1,606
55 no SJIE												
C	1,095	1,446	1,226	1,079	1,345	1,454	1,729	1,844	1,359	896	817	926
D	1,139	2,136	1,949	1,438	2,398	2,597	3,170	3,181	1,576	1,272	1,403	1,397
BN	1,186	2,370	2,281	2,371	3,989	3,044	4,302	4,451	3,010	1,466	1,703	1,496
AN	1,087	3,397	3,186	5,127	5,898	4,981	4,296	5,005	4,121	1,747	2,452	1,474
W	1,498	3,550	6,443	8,419	9,368	6,067	6,167	7,408	7,099	3,141	3,601	1,621
All	1,244	2,651	3,408	4,122	5,069	3,839	4,199	4,711	3,798	1,872	2,159	1,417
65 no SJIE												
C	1,095	1,418	1,266	1,005	1,450	1,724	1,987	1,838	1,275	807	829	1,062
D	1,135	2,039	1,917	1,395	2,296	3,043	3,739	3,521	1,584	1,272	1,315	1,397
BN	1,215	2,253	2,233	2,311	3,665	3,627	5,082	4,799	2,639	1,395	1,491	1,496
AN	1,087	3,001	3,145	5,201	5,722	5,555	4,915	5,541	2,706	1,474	2,460	1,474
W	1,467	3,404	6,242	8,183	9,287	6,392	6,745	7,654	5,881	2,569	4,800	1,589
All	1,239	2,510	3,332	4,026	4,956	4,261	4,767	4,992	3,174	1,638	2,465	1,429

H1a5.2.3 Antelope Creek above Confluence with Sacramento River (SWRCB Antelope Creek)

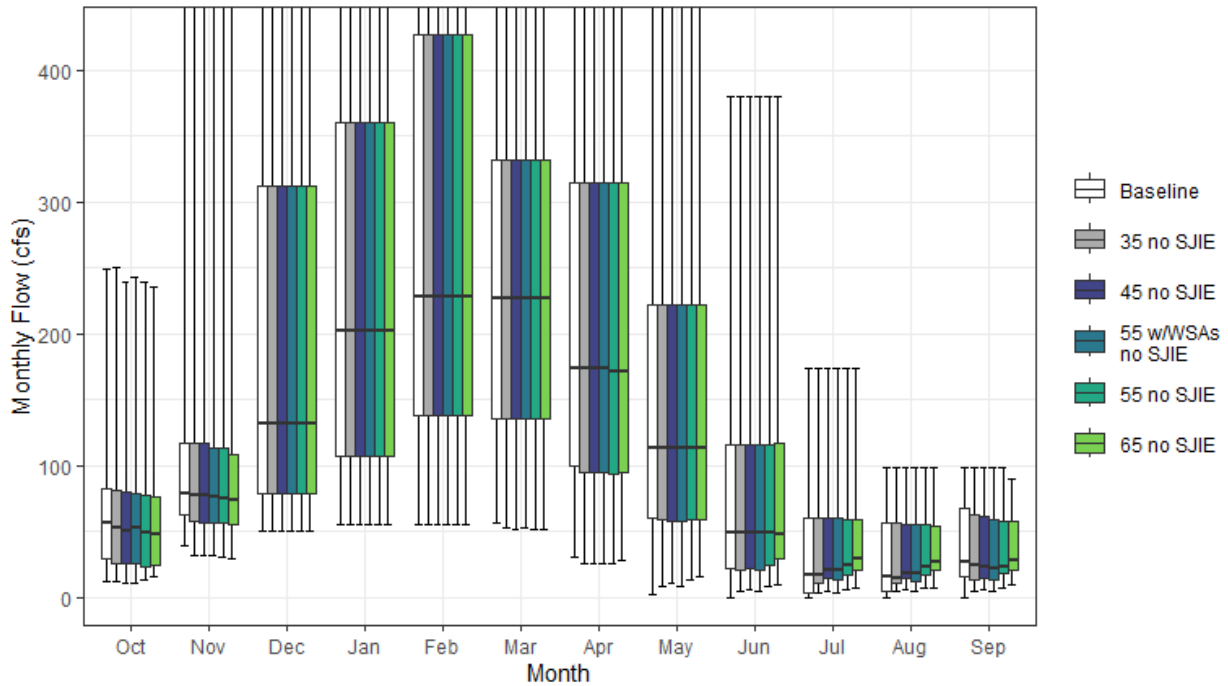

Figure H1a5-3. Antelope Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-5. 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 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 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 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 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 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 H1a5-6. 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 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 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 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 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 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

H1a5.2.4 Battle Creek above Confluence with Sacramento River (SWRCB Battle Creek)

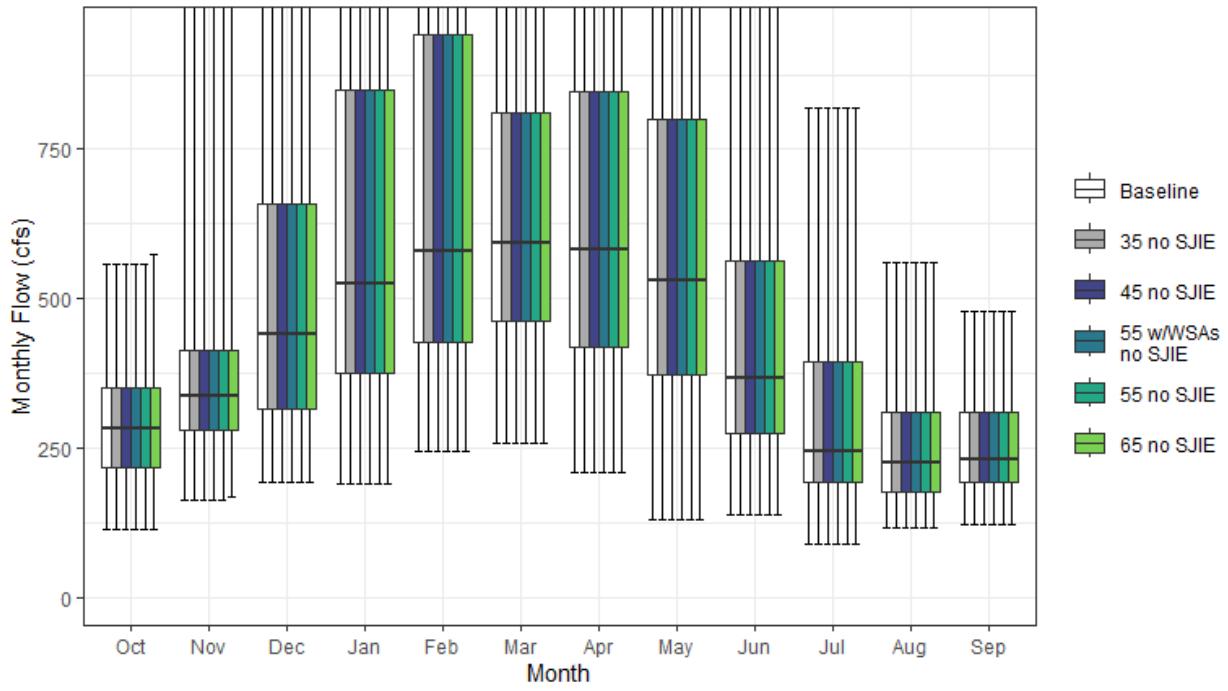

Figure H1a5-4. Battle Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-7. 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 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 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 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 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 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 H1a5-8. 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 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 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 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 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 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

H1a5.2.5 Bear River below Camp Far West Reservoir (SWRCB Camp Far West)

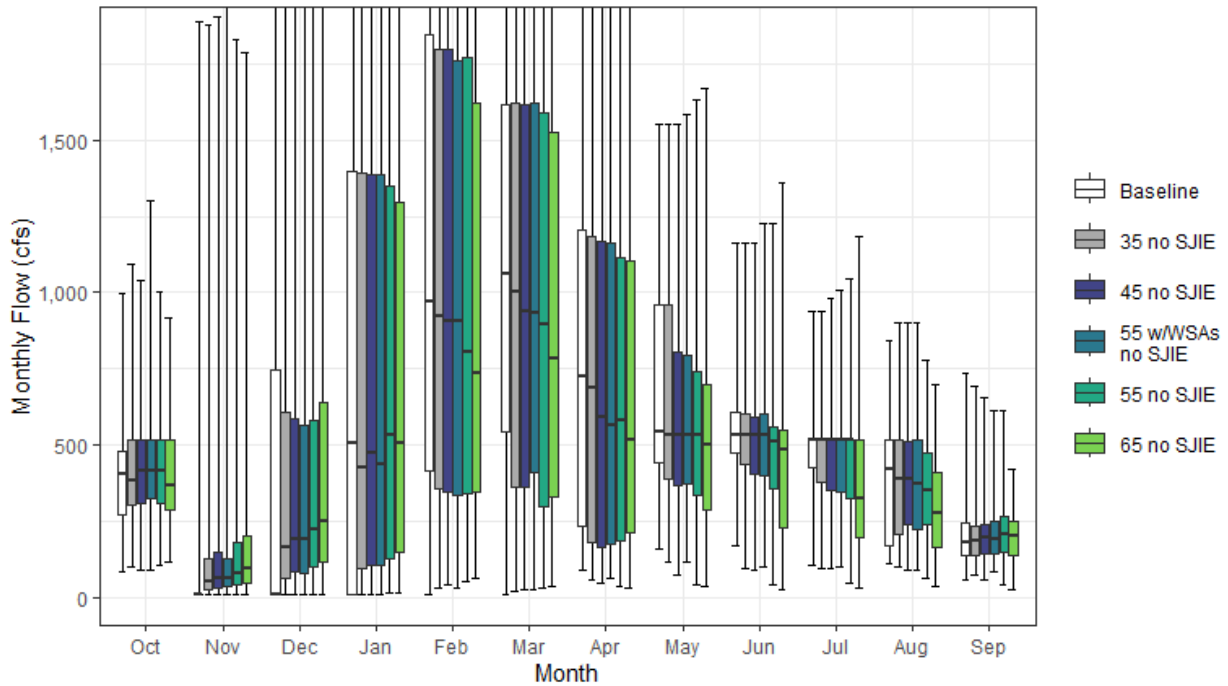

Figure H1a5-5. Bear River Streamflow below Camp Far West Reservoir Monthly Boxplot (cfs)

Table H1a5-9. 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 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%	385	50	163	423	923	1,005	688	530	530	515	388	186	389
75%	515	126	606	1,395	1,800	1,620	1,186	958	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	3,723	1,551	1,162	939	899	691	1,226
Mean	400	186	601	976	1,281	1,169	840	641	549	481	375	204	463
45 no 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%	308	33	83	105	345	361	164	366	406	349	240	144	212
50%	417	64	193	475	904	938	590	530	530	515	386	199	371
75%	515	151	584	1,388	1,796	1,618	1,168	807	591	515	510	239	674
90%	533	553	2,117	2,668	3,052	2,604	1,700	1,090	924	682	527	302	850
100%	1,037	1,903	3,859	4,629	6,332	4,139	3,723	1,551	1,162	983	901	655	1,236
Mean	409	203	602	970	1,270	1,149	804	597	537	476	374	208	457
55 w/WSAs no SJIE													
0%	91	10	10	10	33	25	60	117	102	102	90	82	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	213
50%	413	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	605	515	515	251	656
90%	549	521	2,086	2,670	3,024	2,604	1,676	1,085	906	654	527	300	845
100%	1,302	2,813	3,869	4,643	6,332	4,154	3,723	1,586	1,226	1,009	901	613	1,228
Mean	418	215	573	954	1,272	1,154	807	599	542	477	359	207	455
55 no SJIE													
0%	106	10	10	13	51	31	34	41	40	45	61	39	67
10%	260	22	46	74	179	122	108	189	173	240	156	112	131
25%	308	40	99	124	340	298	188	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	1,116	739	557	515	473	266	653
90%	565	532	2,133	2,692	2,891	2,509	1,675	1,055	918	638	532	308	843
100%	1,004	1,830	3,703	4,612	6,341	4,139	3,764	1,631	1,226	1,046	776	613	1,223
Mean	418	207	605	958	1,250	1,109	789	574	513	461	352	213	448
65 no SJIE													
0%	118	10	10	15	61	37	30	37	25	29	34	25	64
10%	235	26	54	87	199	144	95	111	118	126	120	87	118
25%	285	47	117	147	345	332	212	286	226	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	431	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	599	927	1,204	1,049	763	539	449	382	307	197	422

Table H1a5-10. 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 SJIE												
C	392	68	106	102	255	214	144	256	302	305	188	127
D	351	85	229	285	483	667	357	432	431	407	268	161
BN	362	73	344	491	1,045	1,098	743	541	532	475	383	184
AN	404	215	533	1,356	1,692	1,503	924	888	685	564	408	259
W	462	383	1,327	2,103	2,398	1,957	1,593	962	723	600	534	268
All	400	186	601	976	1,281	1,169	840	641	549	481	375	204
45 no SJIE												
C	403	74	122	128	262	213	128	229	271	289	198	129
D	358	92	249	285	483	633	303	393	401	393	296	175
BN	377	83	342	500	1,005	1,066	691	511	524	474	370	197
AN	406	229	549	1,320	1,663	1,482	879	775	691	577	410	251
W	471	420	1,302	2,078	2,395	1,945	1,574	925	724	599	514	266
All	409	203	602	970	1,270	1,149	804	597	537	476	374	208
55 w/WSAs no SJIE												
C	403	70	112	110	261	226	143	248	296	300	192	127
D	355	90	242	282	467	663	324	415	416	391	287	166
BN	389	79	320	471	1,037	1,054	690	510	518	471	383	202
AN	416	240	532	1,296	1,665	1,477	877	762	683	573	376	239
W	492	458	1,240	2,066	2,392	1,942	1,563	912	724	601	480	269
All	418	215	573	954	1,272	1,154	807	599	542	477	359	207
55 no SJIE												
C	394	84	146	149	260	212	132	190	221	244	182	128
D	351	100	271	269	486	569	301	369	360	359	295	177
BN	397	95	323	505	981	995	660	498	501	461	342	219
AN	426	239	555	1,288	1,591	1,432	844	726	662	576	382	246
W	491	408	1,294	2,048	2,371	1,926	1,558	916	728	606	478	270
All	418	207	605	958	1,250	1,109	789	574	513	461	352	213
65 no 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	115	345	503	921	818	639	482	449	343	266	191
AN	384	233	564	1,263	1,406	1,370	752	691	598	461	379	233
W	481	388	1,230	1,945	2,319	1,879	1,545	897	700	599	455	254
All	399	205	599	927	1,204	1,049	763	539	449	382	307	197

H1a5.2.6 Bear River above Confluence with Feather River (SWRCB Bear River)

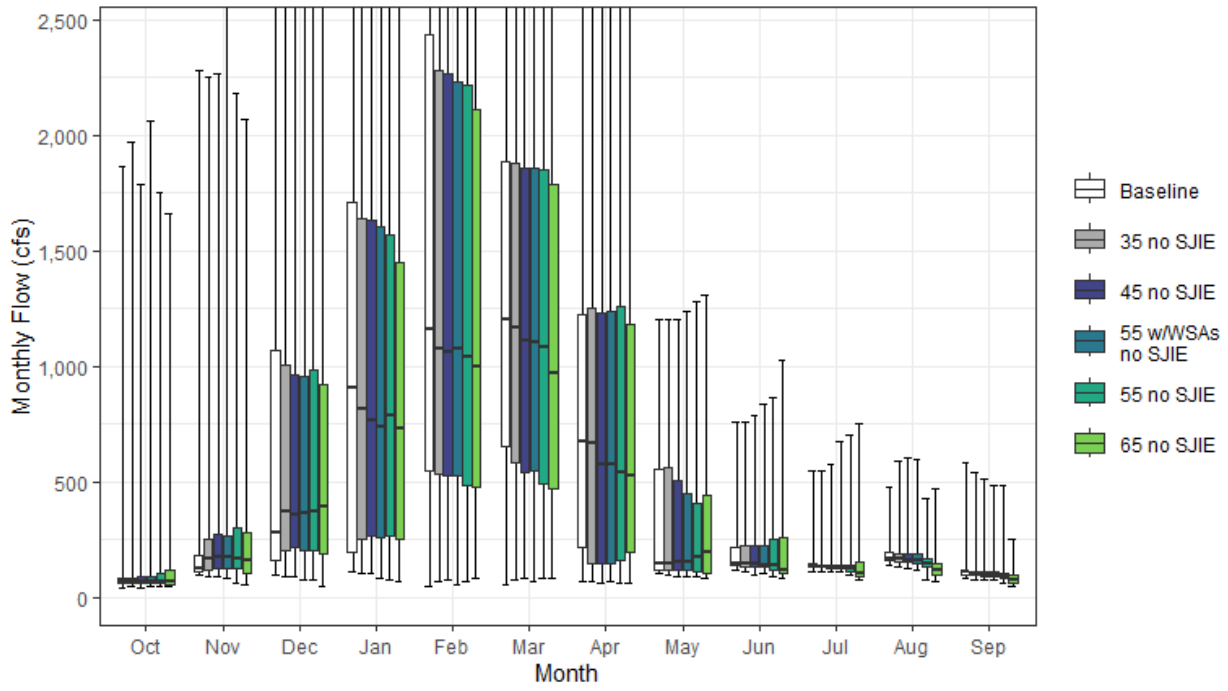

Figure H1a5-6. Bear River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a5-11. 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 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	133
25%	63	118	201	252	534	579	146	117	135	129	154	94	193
50%	68	164	368	817	1,073	1,165	667	145	145	134	165	101	350
75%	82	251	1,002	1,637	2,281	1,877	1,251	562	220	142	185	108	692
90%	112	651	2,661	3,259	3,742	3,033	1,843	810	518	293	239	125	864
100%	1,968	2,255	4,300	6,013	7,651	5,444	4,282	1,204	757	546	587	543	1,292
Mean	98	309	872	1,326	1,687	1,430	858	330	226	170	188	117	456
45 no SJIE													
0%	42	90	88	101	75	80	64	90	94	110	128	73	78
10%	56	105	146	201	246	196	90	103	119	119	142	86	141
25%	63	124	213	269	525	542	146	118	130	125	150	90	188
50%	69	173	354	763	1,059	1,109	578	153	142	132	160	98	350
75%	88	272	964	1,630	2,263	1,859	1,229	504	225	141	185	108	684
90%	115	703	2,640	3,260	3,731	3,033	1,845	768	537	297	244	136	852
100%	1,789	2,262	4,329	6,012	7,645	5,430	4,306	1,204	789	574	601	509	1,298
Mean	98	322	868	1,316	1,672	1,410	830	313	229	174	186	115	451
55 w/WSAs no 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	575	151	142	132	160	99	346
75%	90	268	959	1,607	2,230	1,858	1,239	446	226	142	185	108	681
90%	118	613	2,639	3,251	3,805	3,033	1,848	748	508	325	266	149	844
100%	2,060	3,143	4,338	6,022	7,651	5,444	4,331	1,237	835	676	597	484	1,304
Mean	102	332	840	1,299	1,673	1,415	835	317	234	181	184	114	451
55 no SJIE													
0%	44	58	73	73	71	83	62	86	91	94	78	62	74
10%	55	91	145	197	259	177	100	97	105	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	1,260	409	249	136	169	105	666
90%	121	670	2,574	3,228	3,635	2,955	1,847	734	536	362	277	154	848
100%	1,751	2,184	4,155	6,022	7,638	5,430	4,370	1,280	862	705	429	484	1,292
Mean	100	312	855	1,288	1,632	1,369	824	318	229	178	173	108	442
65 no 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	469	192	107	102	90	99	62	174
50%	71	162	395	727	997	966	523	196	119	100	116	72	316
75%	117	279	919	1,451	2,109	1,784	1,182	445	259	155	143	99	627
90%	140	535	2,428	3,142	3,522	2,825	1,858	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	283	813	1,224	1,544	1,305	801	325	211	171	154	92	421

Table H1a5-12. 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 SJIE												
C	73	162	275	268	427	336	124	108	128	133	173	100
D	70	195	445	465	704	856	348	158	136	148	184	112
BN	72	182	529	741	1,421	1,321	753	199	174	141	156	96
AN	72	348	767	1,857	2,265	1,817	928	528	306	194	198	137
W	158	536	1,762	2,678	3,018	2,350	1,661	579	345	216	215	135
All	98	309	872	1,326	1,687	1,430	858	330	226	170	188	117
45 no SJIE												
C	75	163	286	289	427	334	120	109	122	127	163	93
D	70	198	457	461	699	821	306	154	134	144	180	109
BN	75	187	521	744	1,376	1,289	703	199	178	154	161	97
AN	75	360	780	1,817	2,232	1,797	887	448	319	209	198	136
W	154	568	1,734	2,651	3,012	2,338	1,650	558	353	220	214	132
All	98	322	868	1,316	1,672	1,410	830	313	229	174	186	115
55 w/WSAs no SJIE												
C	75	159	274	270	426	346	124	108	127	131	168	97
D	71	196	451	456	683	851	319	165	133	143	180	109
BN	78	185	501	718	1,409	1,278	708	195	175	155	167	99
AN	76	368	761	1,789	2,230	1,792	904	449	326	218	190	120
W	164	604	1,672	2,638	3,007	2,335	1,646	566	364	237	204	132
All	102	332	840	1,299	1,673	1,415	835	317	234	181	184	114
55 no SJIE												
C	74	154	285	284	394	326	133	110	117	116	146	85
D	71	193	461	430	682	754	301	151	120	131	156	94
BN	80	189	491	736	1,327	1,219	690	208	171	157	165	106
AN	80	360	774	1,771	2,149	1,748	872	428	315	221	186	115
W	157	543	1,711	2,609	2,975	2,319	1,642	577	370	241	201	129
All	100	312	855	1,288	1,632	1,369	824	318	229	178	173	108
65 no SJIE												
C	74	124	282	289	408	343	147	117	118	110	130	77
D	73	185	450	400	639	715	288	166	113	121	135	79
BN	83	181	481	700	1,211	1,038	660	219	166	140	138	90
AN	89	318	744	1,699	1,907	1,680	765	430	256	199	172	95
W	160	492	1,601	2,469	2,879	2,271	1,630	579	342	248	185	109
All	103	283	813	1,224	1,544	1,305	801	325	211	171	154	92

H1a5.2.7 Big Chico Creek above Confluence with Sacramento River (SWRCB Big Chico)

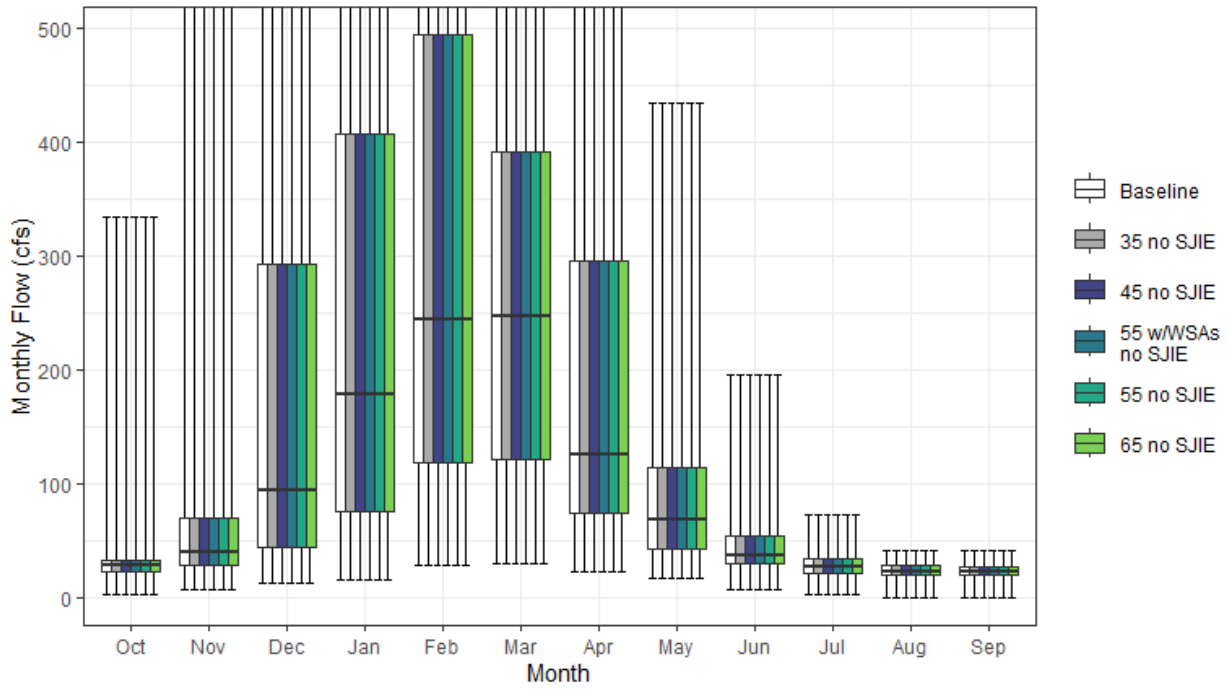

Figure H1a5-7. Big Chico Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-13. 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 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 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 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 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 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 H1a5-14. 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 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 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 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 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 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

H1a5.2.8 Butte Creek above Butte Slough (SWRCB Butte Creek)

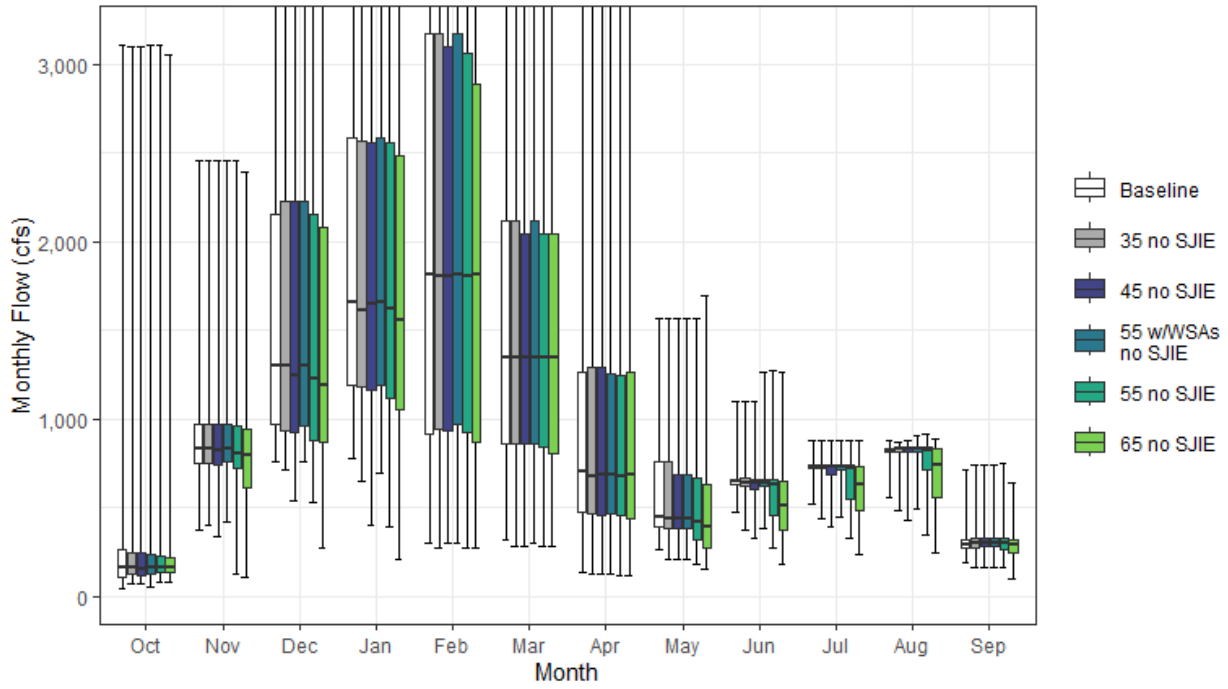

Figure H1a5-8. Butte Creek Streamflow above Butte Slough Monthly Boxplot (cfs)

Table H1a5-15. 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 SJIE													
0%	70	399	715	646	271	281	129	204	372	441	488	162	291
10%	106	694	831	869	529	531	325	290	445	517	583	216	464
25%	122	753	935	1,177	943	856	461	386	624	720	816	277	570
50%	165	835	1,301	1,608	1,808	1,341	672	440	641	729	827	297	703
75%	248	972	2,228	2,565	3,169	2,114	1,286	758	664	738	836	329	963
90%	361	1,244	3,234	3,864	4,680	3,015	1,757	1,107	795	753	842	357	1,121
100%	3,099	2,457	5,346	7,872	8,501	6,622	3,482	1,568	1,096	878	871	738	1,519
Mean	232	920	1,706	2,092	2,310	1,613	911	583	647	699	790	307	770
45 no SJIE													
0%	72	338	538	397	304	280	129	205	326	389	428	166	309
10%	101	664	823	867	529	531	325	275	445	515	568	207	455
25%	120	744	927	1,166	932	857	458	384	601	684	816	278	559
50%	158	822	1,241	1,648	1,808	1,342	683	440	639	728	828	302	687
75%	243	972	2,227	2,560	3,099	2,038	1,293	684	660	738	836	330	961
90%	361	1,241	3,223	3,865	4,670	3,017	1,752	1,097	805	753	844	354	1,133
100%	3,099	2,457	5,344	7,847	8,462	6,657	3,502	1,568	1,096	879	881	737	1,508
Mean	229	908	1,688	2,073	2,294	1,612	906	574	637	689	784	308	763
55 w/WSAs no SJIE													
0%	53	417	760	690	304	303	130	205	383	444	489	163	306
10%	110	698	841	908	528	532	325	284	461	558	646	246	485
25%	127	756	959	1,188	967	857	461	385	623	714	815	281	573
50%	161	833	1,300	1,656	1,810	1,341	683	437	640	729	830	302	700
75%	238	972	2,227	2,582	3,169	2,114	1,249	686	661	738	838	330	963
90%	360	1,293	3,237	3,864	4,680	3,026	1,754	1,117	759	753	844	353	1,127
100%	3,109	2,457	5,343	7,887	8,462	6,623	3,482	1,568	1,261	879	910	737	1,518
Mean	233	926	1,716	2,104	2,317	1,614	904	580	646	700	797	310	772
55 no SJIE													
0%	80	126	531	392	269	280	114	185	270	330	346	161	268
10%	107	569	784	804	513	531	323	248	376	471	545	192	449
25%	132	718	882	1,115	927	839	458	320	456	547	713	266	534
50%	159	805	1,228	1,619	1,808	1,341	672	421	628	724	827	298	677
75%	231	960	2,152	2,556	3,056	2,038	1,249	667	658	738	840	329	955
90%	341	1,293	3,188	3,864	4,582	3,015	1,743	1,100	758	753	847	351	1,129
100%	3,104	2,456	5,341	7,785	8,462	6,624	3,501	1,568	1,268	879	910	746	1,485
Mean	231	878	1,655	2,037	2,263	1,607	898	546	596	653	754	303	746
65 no SJIE													
0%	76	110	271	204	269	281	113	152	184	240	242	97	238
10%	113	338	635	761	458	511	318	223	305	383	400	183	400
25%	137	607	870	1,049	868	803	441	271	373	480	558	247	508
50%	165	791	1,191	1,553	1,808	1,346	683	387	513	627	740	288	621
75%	218	939	2,081	2,485	2,884	2,038	1,263	627	649	727	835	320	898
90%	315	1,170	3,103	3,778	4,578	3,015	1,692	1,038	751	753	853	343	1,131
100%	3,051	2,391	5,333	7,073	8,462	6,623	3,501	1,694	1,262	879	889	643	1,413
Mean	224	807	1,593	1,966	2,200	1,597	891	504	532	593	685	285	713

Table H1a5-16. 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 SJIE												
C	155	731	1,181	1,168	1,105	878	311	287	453	523	588	207
D	167	854	1,436	1,214	1,385	1,213	588	416	623	718	824	343
BN	198	843	1,268	1,728	2,115	1,421	929	521	652	730	829	319
AN	214	876	1,575	2,707	3,107	1,884	1,028	687	678	734	829	342
W	350	1,135	2,514	3,215	3,436	2,313	1,410	861	753	744	831	313
All	232	920	1,706	2,092	2,310	1,613	911	583	647	699	790	307
45 no SJIE												
C	151	716	1,165	1,155	1,090	881	311	271	439	503	560	206
D	165	848	1,416	1,188	1,352	1,210	584	394	598	691	819	345
BN	192	820	1,247	1,695	2,097	1,411	920	509	642	721	825	318
AN	210	869	1,536	2,670	3,099	1,885	1,034	684	678	734	830	347
W	347	1,126	2,507	3,213	3,430	2,314	1,400	864	753	747	835	314
All	229	908	1,688	2,073	2,294	1,612	906	574	637	689	784	308
55 w/WSAs no SJIE												
C	152	747	1,204	1,195	1,124	884	312	296	467	538	626	223
D	177	865	1,446	1,223	1,399	1,211	588	408	608	709	817	336
BN	200	844	1,278	1,739	2,121	1,421	920	522	661	728	828	321
AN	214	898	1,601	2,726	3,109	1,887	1,034	684	678	736	833	347
W	347	1,130	2,512	3,215	3,433	2,313	1,390	853	747	748	839	315
All	233	926	1,716	2,104	2,317	1,614	904	580	646	700	797	310
55 no SJIE												
C	156	640	1,081	1,061	1,004	863	303	240	377	452	495	201
D	176	820	1,379	1,154	1,317	1,204	580	340	503	594	737	323
BN	190	791	1,218	1,662	2,070	1,409	913	477	602	690	802	322
AN	211	854	1,519	2,633	3,066	1,884	1,018	658	647	733	836	347
W	343	1,111	2,496	3,205	3,429	2,316	1,391	861	756	749	840	312
All	231	878	1,655	2,037	2,263	1,607	898	546	596	653	754	303
65 no SJIE												
C	167	531	960	951	934	825	293	229	328	400	418	183
D	179	791	1,353	1,130	1,303	1,200	572	277	391	500	613	301
BN	182	698	1,134	1,575	1,913	1,398	903	412	476	576	680	292
AN	188	801	1,467	2,521	2,988	1,885	1,003	604	569	667	786	317
W	327	1,036	2,449	3,146	3,400	2,311	1,393	835	764	745	842	311
All	224	807	1,593	1,966	2,200	1,597	891	504	532	593	685	285

H1a5.2.9 Cache Creek below Clear Lake (SWRCB Clear Lake)

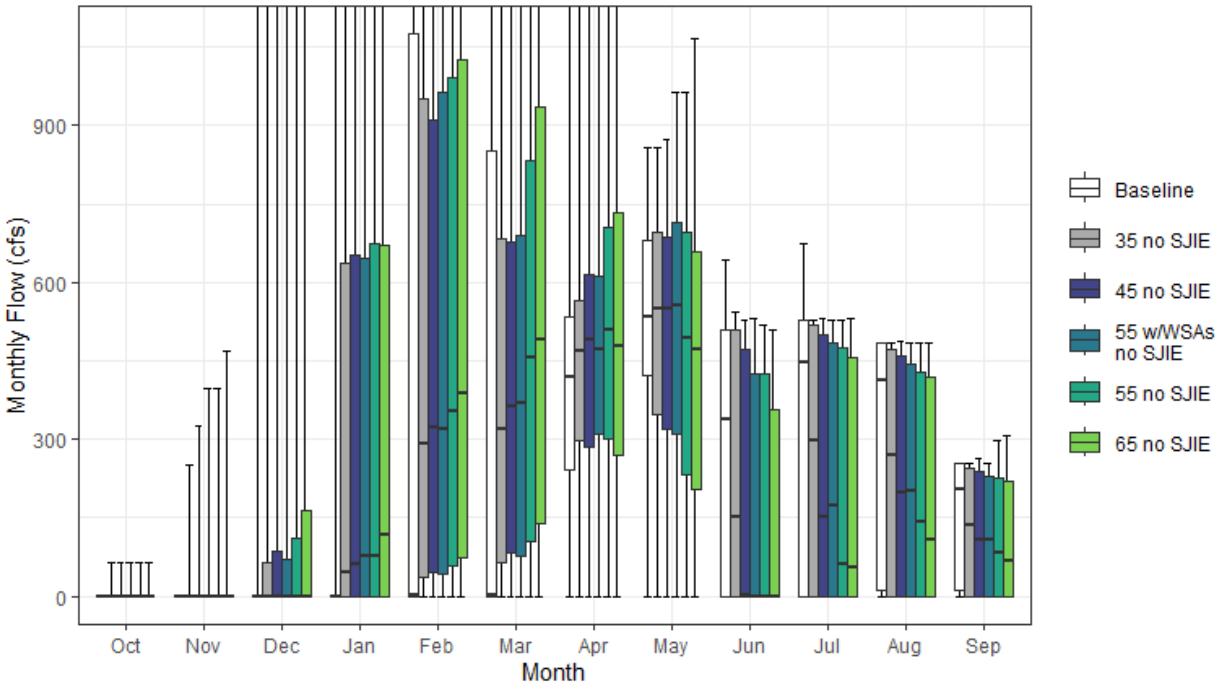

Figure H1a5-9. Cache Creek Streamflow below Clear Lake Monthly Boxplot (cfs)

Table H1a5-17. 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 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	2,750	2,059	1,275	805	510	529	485	253	567
100%	64	252	2,754	5,209	7,387	6,042	3,128	858	543	529	486	253	967
Mean	1	5	129	478	824	680	565	508	217	249	239	126	241
45 no 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	286	318	0	0	0	0	73
50%	0	0	0	63	321	363	489	550	1	152	200	109	140
75%	0	0	86	653	911	676	617	686	472	500	459	238	370
90%	1	1	394	1,150	2,644	2,059	1,128	823	510	529	485	253	569
100%	63	324	2,558	5,209	7,377	6,042	3,128	874	528	530	486	263	980
Mean	1	7	133	498	826	704	582	507	196	235	221	118	241
55 w/WSAs no 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	310	310	0	0	0	0	66
50%	0	0	0	77	321	370	472	555	0	175	202	109	149
75%	0	0	70	646	965	689	613	715	426	486	445	229	365
90%	1	1	387	1,331	2,640	2,059	1,138	849	510	529	485	253	572
100%	64	396	2,358	5,209	7,331	6,042	3,128	963	531	529	485	253	999
Mean	1	8	131	499	828	698	586	517	190	231	219	117	241
55 no 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	105	302	232	0	0	0	0	68
50%	0	0	0	77	355	456	509	493	0	61	143	83	143
75%	0	1	112	674	991	834	705	695	426	475	429	226	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	529	485	297	1,014
Mean	1	11	138	520	838	733	603	482	178	214	204	108	241
65 no SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	1	27	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	827	505	524	480	252	596
100%	65	469	2,227	5,209	7,270	6,042	3,128	1,067	511	530	485	306	1,076
Mean	2	15	149	545	862	769	607	443	156	198	185	99	241

Table H1a5-18. 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 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	866	632	643	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	508	217	249	239	126
45 no 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	180	425	282	496	509	73	141	149	88
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 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	361	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 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	334	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 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	18
BN	1	2	72	263	504	401	514	377	35	97	103	57
AN	0	8	64	380	1,033	839	745	555	181	275	259	146
W	4	42	396	1,406	1,905	1,654	1,058	692	410	459	419	219
All	2	15	149	545	862	769	607	443	156	198	185	99

H1a5.2.10Cache Creek above Yolo Bypass (SWRCB Cache Creek)

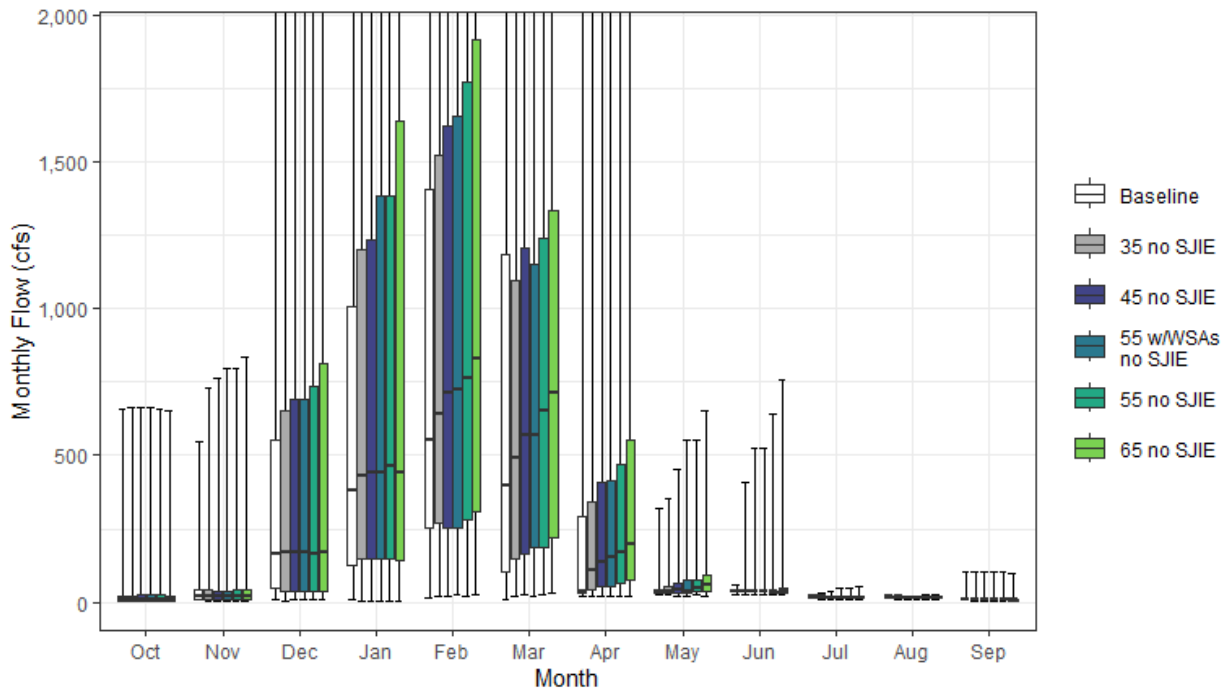

Figure H1a5-10. Cache Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a5-19. 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 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%	5	10	40	147	268	148	41	33	36	17	16	9	88
50%	9	19	169	428	642	494	106	37	37	18	18	9	161
75%	23	40	654	1,198	1,522	1,094	341	51	39	19	19	9	380
90%	37	122	1,147	2,292	3,929	2,473	1,323	156	41	20	20	10	623
100%	661	731	4,386	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 SJIE													
0%	2	5	7	5	23	26	19	23	26	10	9	3	17
10%	4	7	17	53	66	68	32	29	29	15	12	7	47
25%	6	10	38	147	255	166	51	34	35	17	16	8	94
50%	9	20	168	440	716	567	137	43	37	18	18	9	172
75%	24	40	690	1,235	1,623	1,205	410	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 SJIE													
0%	2	4	7	5	23	21	19	23	25	10	9	3	17
10%	4	7	18	53	66	65	31	29	29	15	13	7	47
25%	6	11	39	147	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	217	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	956	417	87	47	19	17	11	266
55 no SJIE													
0%	2	4	7	5	22	27	19	24	26	9	8	2	17
10%	4	7	17	55	65	77	33	30	29	14	11	6	49
25%	6	10	37	147	281	184	63	36	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	9	417
90%	35	118	1,438	2,721	3,835	2,210	1,095	242	59	28	20	11	632
100%	656	799	4,080	6,660	10,447	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 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	34	15	13	6	109
50%	9	18	168	444	830	716	198	58	37	17	16	8	212
75%	22	42	810	1,637	1,915	1,333	555	92	47	20	18	9	453
90%	35	135	1,700	3,204	3,784	2,440	1,243	285	70	33	20	12	661
100%	651	833	3,921	6,655	9,907	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 H1a5-20. 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 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	837	462	203	46	57	17	16	13
AN	25	54	390	1,092	1,674	946	338	87	39	19	19	9
W	46	94	888	2,192	2,901	2,165	939	102	43	19	18	10
All	26	48	438	975	1,385	960	395	66	42	18	17	11
45 no 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	16	11
BN	28	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 SJIE												
C	12	12	146	250	287	156	33	31	29	17	17	9
D	10	30	259	214	456	376	124	51	37	17	16	11
BN	27	21	223	497	861	498	242	49	64	17	15	13
AN	24	53	389	1,180	1,698	964	363	116	43	22	19	9
W	47	96	927	2,269	2,801	2,096	968	156	54	21	18	10
All	27	48	452	1,014	1,368	956	417	87	47	19	17	11
55 no SJIE												
C	13	11	146	270	317	180	42	34	29	17	17	9
D	10	31	268	228	516	449	162	62	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 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	23	56	451	1,551	2,033	1,127	465	159	48	23	16	8
W	47	109	1,100	2,581	2,840	2,051	992	187	62	22	17	11
All	27	52	525	1,184	1,490	1,023	479	111	52	20	16	10

H1a5.2.11 Calaveras River below New Hogan Reservoir (SWRCB New Hogan)

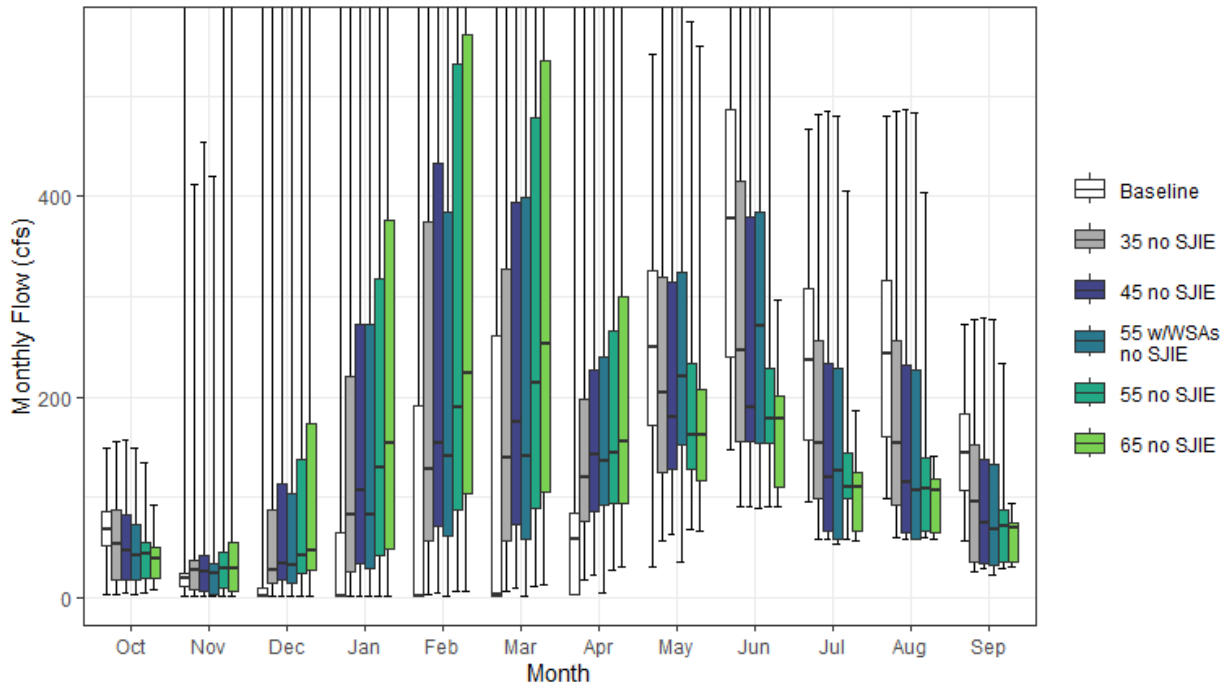

Figure H1a5-11. Calaveras River Streamflow below New Hogan Reservoir Monthly Boxplot (cfs)

Table H1a5-21. 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 SJIE													
0%	3	1	1	1	4	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	781	481	486	277	550
Mean	58	35	121	260	391	336	168	225	292	183	181	105	142
45 no 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	371	380	496	305	307	175	300
100%	157	455	1,325	3,005	3,679	2,697	1,370	635	790	486	487	279	549
Mean	53	39	131	279	408	344	197	223	270	166	162	94	142
55 w/WSAs no 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	153	154	57	59	32	55
50%	41	24	32	82	141	141	135	221	271	125	107	68	92
75%	73	34	103	273	385	399	240	324	385	229	227	132	209
90%	89	52	279	681	1,100	1,004	393	386	506	312	295	172	304
100%	150	420	1,348	3,005	3,679	2,697	1,505	636	798	480	484	277	547
Mean	46	31	126	275	392	344	211	244	288	163	154	88	142
55 no 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	234	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	3,652	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 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	1,635	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 H1a5-22. 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 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	168	225	292	183	181	105
45 no 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	45	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 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	211	151	183	223	141	134	77
AN	38	46	139	286	451	354	181	267	323	201	198	116
W	56	48	279	662	791	759	401	355	431	269	267	155
All	46	31	126	275	392	344	211	244	288	163	154	88
55 no 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	368	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 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	562	462	248	195	187	110	102	63
W	43	133	370	743	844	770	478	255	218	133	117	74
All	36	85	174	346	477	406	256	173	167	102	95	57

H1a5.2.12 Calaveras River above Delta (SWRCB Calaveras River)

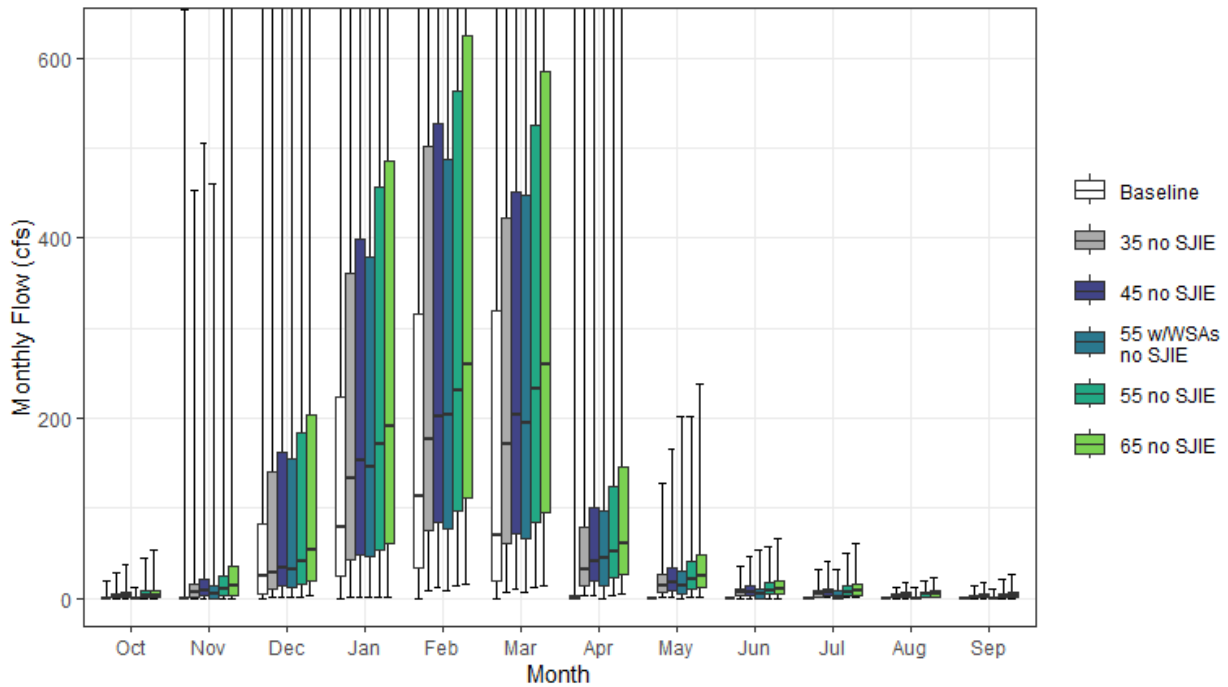

Figure H1a5-12. Calaveras River Streamflow above Delta Monthly Boxplot (cfs)

Table H1a5-23. 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 SJIE													
0%	0	0	1	1	9	7	2	0	0	0	0	0	3
10%	0	1	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	33	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	452	1,289	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 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	451	101	34	14	11	6	5	129
90%	14	63	367	915	1,151	993	196	51	20	18	9	8	204
100%	37	506	1,252	2,877	3,528	2,620	883	166	46	42	17	18	434
Mean	5	29	150	338	463	366	92	25	10	8	4	3	89
55 w/WSAs no 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	30	11	8	2	0	128
90%	0	35	352	893	1,168	1,040	221	56	15	14	6	1	204
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 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 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	960	1,529	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 H1a5-24. 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 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	157	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 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 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	245	64	14	5	3	0	0
AN	0	42	160	401	529	403	80	26	8	5	3	0
W	1	39	304	734	845	762	214	53	16	11	5	2
All	0	21	146	335	450	366	94	24	7	5	2	1
55 no 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 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

H1a5.2.13 Clear Creek above Confluence with Sacramento River (SWRCB Clear Creek)

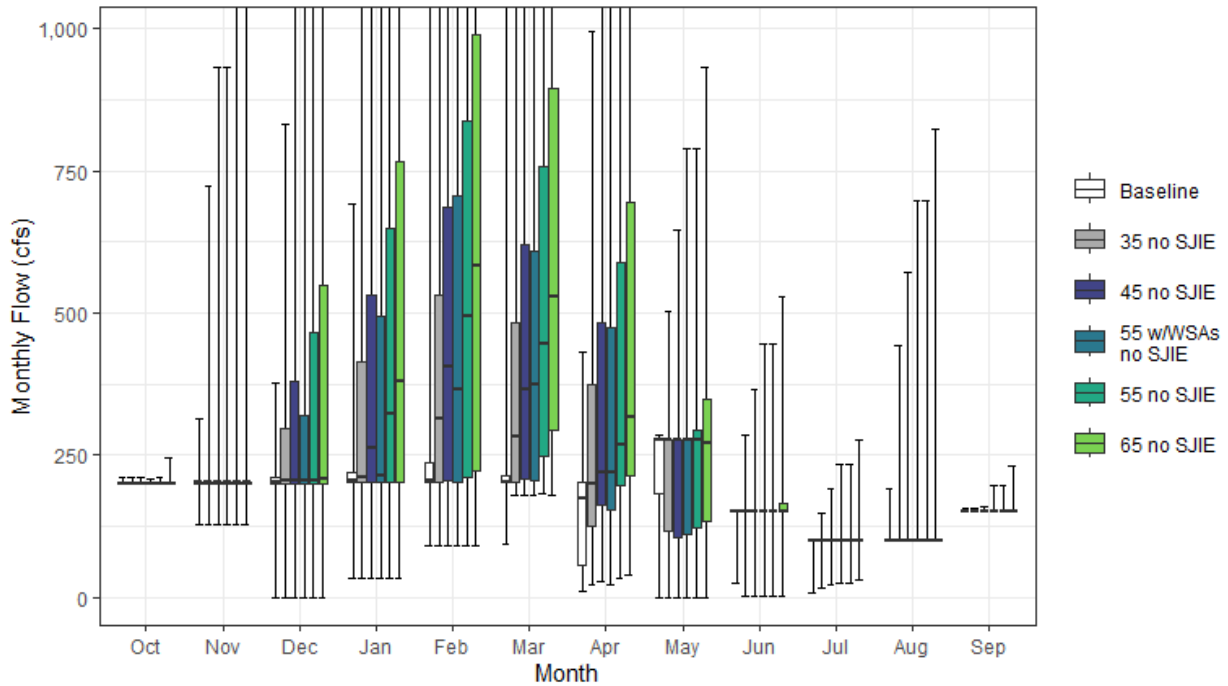

Figure H1a5-13. Clear Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-25. 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 SJIE													
0%	200	129	0	32	92	181	21	0	1	17	100	150	87
10%	200	194	84	200	200	200	68	46	67	100	100	150	109
25%	200	200	200	202	202	202	126	116	150	100	101	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%	209	724	833	1,511	2,023	1,960	994	502	284	149	444	156	380
Mean	201	211	254	346	427	383	260	219	139	99	105	151	168
45 no SJIE													
0%	200	129	0	32	92	181	27	0	1	21	100	150	88
10%	200	194	84	200	201	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	152	282
100%	210	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 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	100	101	150	133
50%	201	201	206	213	366	374	220	278	150	101	101	150	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	151	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 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 SJIE													
0%	200	129	0	32	92	181	39	0	1	30	100	150	93
10%	200	194	84	200	201	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	910	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	109	114	152	246

Table H1a5-26. 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 SJIE												
C	201	190	173	187	238	222	98	169	126	100	101	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 SJIE												
C	201	190	187	197	269	238	120	168	121	100	100	150
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	201	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 SJIE												
C	201	190	173	187	239	222	100	168	126	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	202	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 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 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	135	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	109	114	152

H1a5.2.14 Cosumnes River above Confluence with Delta (SWRCB Cosumnes River)

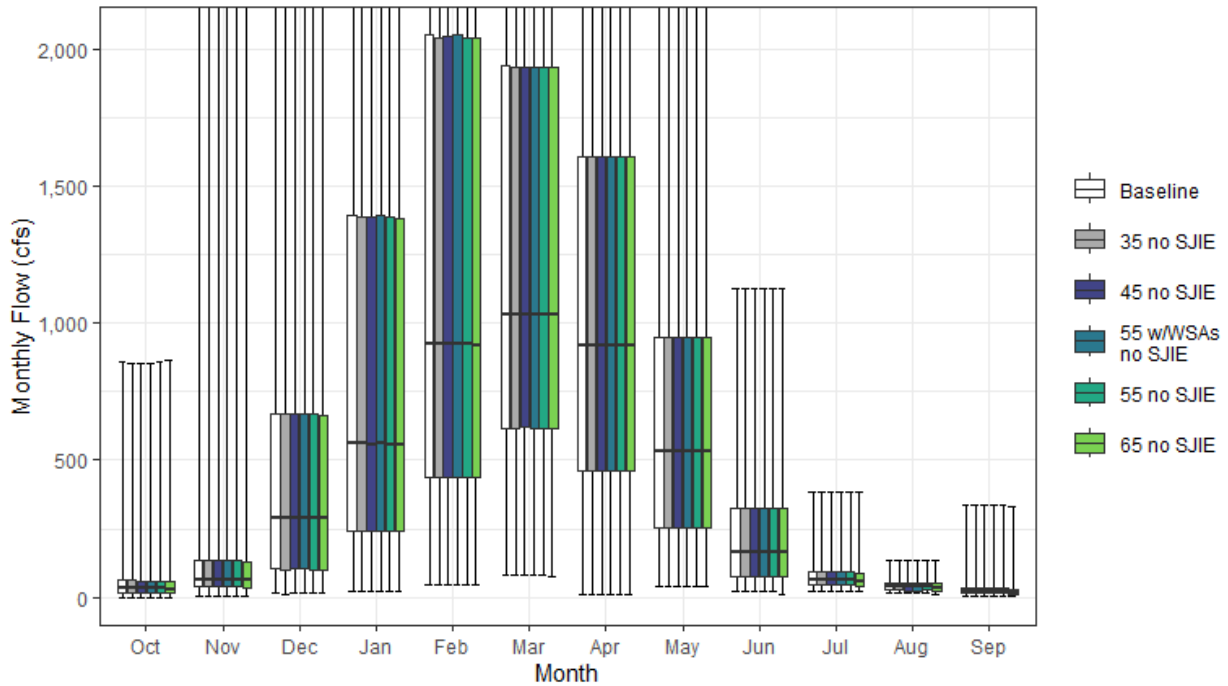

Figure H1a5-14. Cosumnes River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a5-27. 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 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	120
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 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%	17	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 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	17	188
50%	32	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	59	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32	437
55 no 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 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 H1a5-28. 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 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	103	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 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 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	59	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32
55 no 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 SJIE												
C	42	37	165	228	410	385	234	155	66	29	18	13
D	38	89	307	342	700	824	644	367	103	43	28	33
BN	38	101	408	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

H1a5.2.15 Cottonwood Creek above Confluence with Sacramento River (SWRCB Cottonwood Creek)

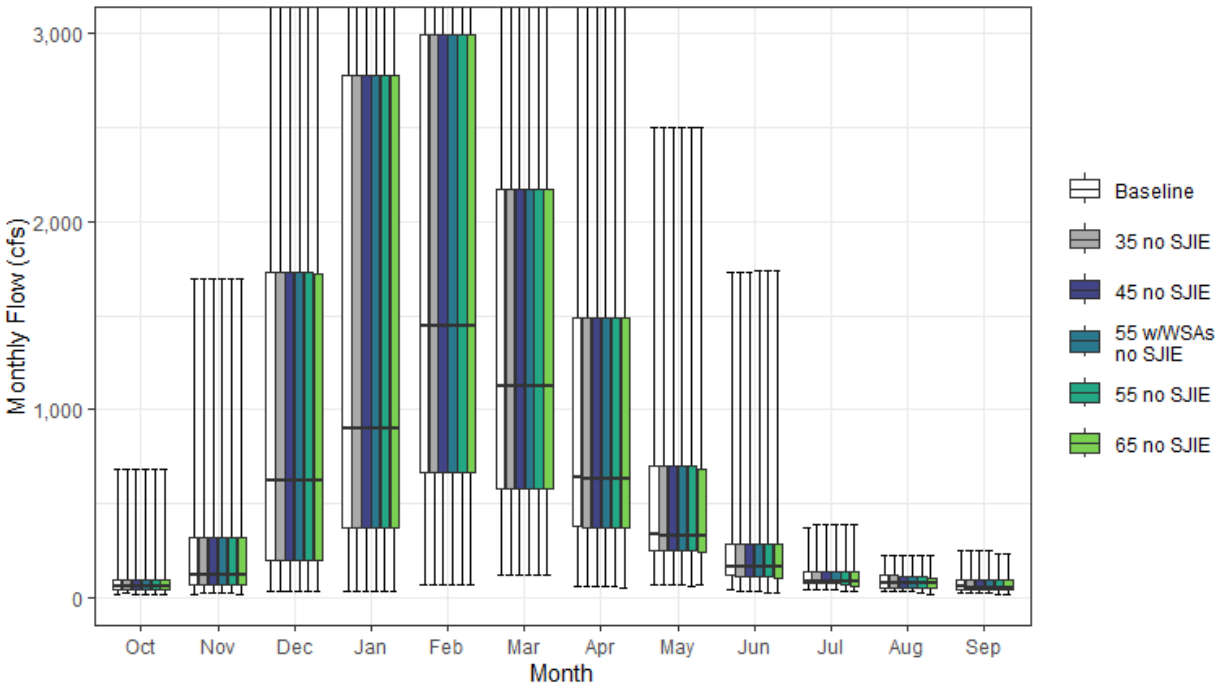

Figure H1a5-15. Cottonwood Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-29. 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 SJIE													
0%	19	21	34	28	63	116	54	66	29	37	32	20	49
10%	27	47	79	197	265	296	202	151	80	54	46	32	146
25%	41	70	192	370	666	577	373	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	699	285	135	118	92	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	976	394	184	135	110	1,062
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,499	1,733	391	221	250	1,896
Mean	89	270	1,186	1,835	2,180	1,653	979	520	232	111	84	69	551
45 no SJIE													
0%	13	22	34	28	63	116	54	63	29	40	28	20	50
10%	26	47	79	197	265	296	202	151	78	54	45	31	146
25%	41	70	192	370	666	577	373	245	112	72	51	39	251
50%	61	121	617	899	1,444	1,123	627	328	162	87	75	47	423
75%	89	315	1,726	2,776	2,994	2,173	1,491	698	280	135	110	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	987	396	184	134	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	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69	551
55 w/WSAs no SJIE													
0%	15	20	34	28	63	116	54	65	33	42	34	20	50
10%	27	47	79	197	265	296	202	151	80	53	46	32	146
25%	41	70	192	370	666	577	373	245	114	72	52	39	251
50%	55	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	106	93	766
90%	150	647	3,161	4,389	5,082	3,571	2,081	984	410	178	126	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	109	83	69	551
55 no SJIE													
0%	14	21	34	28	64	116	54	61	27	31	23	17	48
10%	28	47	79	197	264	296	202	149	79	51	45	30	145
25%	41	70	192	369	666	577	373	245	113	64	51	39	251
50%	61	122	617	899	1,444	1,123	627	328	162	86	75	53	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	430	170	123	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,737	391	221	228	1,897
Mean	89	270	1,186	1,835	2,180	1,653	979	519	231	108	82	69	551
65 no SJIE													
0%	16	19	34	28	64	116	53	62	25	30	13	11	48
10%	26	48	79	197	265	296	202	147	75	47	46	24	145
25%	41	70	192	369	666	577	373	238	105	58	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	681	279	134	100	92	767
90%	153	646	3,160	4,389	5,082	3,571	2,081	984	401	170	122	110	1,063
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	230	106	82	67	550

Table H1a5-30. 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 SJIE												
C	67	74	441	507	748	539	256	174	92	59	52	38
D	65	241	697	625	1,213	1,008	470	272	133	72	55	57
BN	70	180	615	1,319	1,595	1,087	793	373	179	82	61	46
AN	115	287	1,232	2,589	2,954	2,127	1,108	814	305	141	99	91
W	121	445	2,285	3,455	3,713	2,890	1,804	863	384	173	130	100
All	89	270	1,186	1,835	2,180	1,653	979	520	232	111	84	69
45 no 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	98	91
W	121	445	2,285	3,455	3,713	2,890	1,804	865	384	172	126	100
All	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69
55 w/WSAs no SJIE												
C	64	75	441	506	748	538	256	175	95	58	55	39
D	62	241	697	625	1,213	1,008	470	271	133	72	55	57
BN	71	180	615	1,319	1,595	1,087	792	373	181	82	61	46
AN	112	287	1,232	2,589	2,954	2,127	1,108	812	305	141	96	91
W	120	445	2,285	3,455	3,713	2,890	1,804	863	383	170	126	100
All	88	270	1,186	1,835	2,180	1,653	979	520	232	109	83	69
55 no SJIE												
C	65	75	440	506	747	538	256	171	88	53	49	35
D	65	242	696	625	1,213	1,008	470	270	132	70	57	57
BN	68	180	615	1,319	1,595	1,087	792	372	179	81	63	46
AN	112	288	1,231	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	384	170	125	101
All	89	270	1,186	1,835	2,180	1,653	979	519	231	108	82	69
65 no 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	131	65	65	53
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	860	386	170	123	100
All	89	270	1,185	1,835	2,180	1,653	979	516	230	106	82	67

H1a5.2.16 Cow Creek above Confluence with Sacramento River (SWRCB Cow Creek)

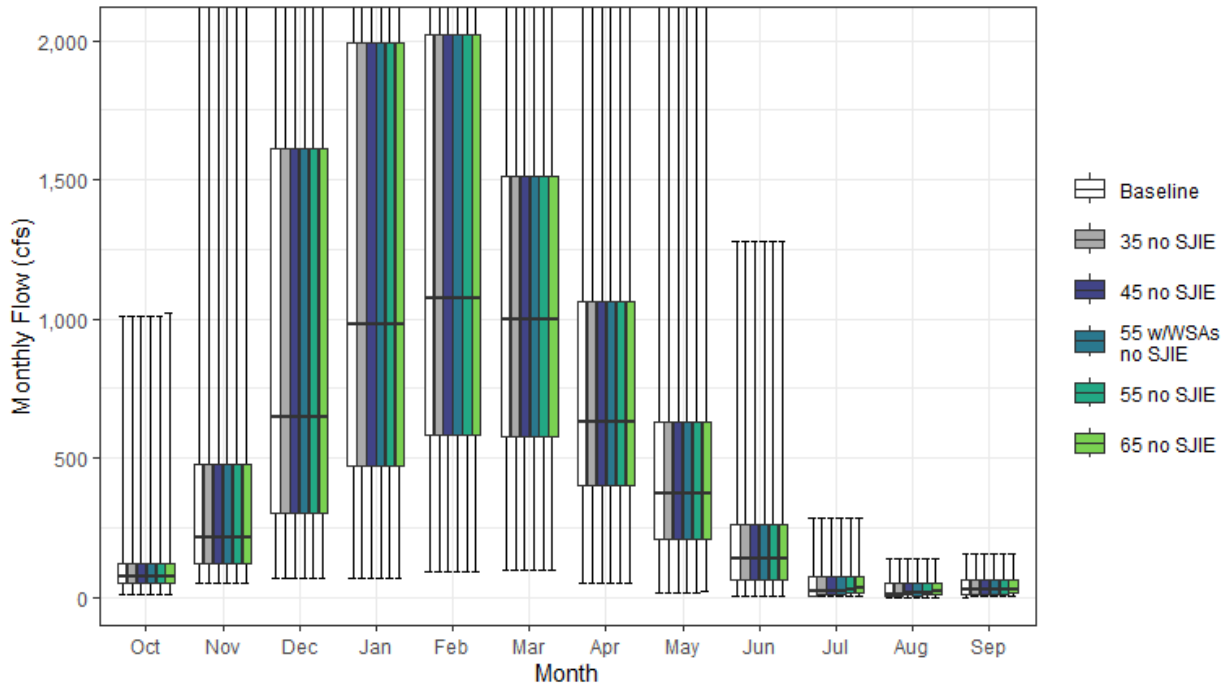

Figure H1a5-16. Cow Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-31. 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 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 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 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 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%	1,012	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	47	30	40	423
65 no 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 H1a5-32. 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 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 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 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 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 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

H1a5.2.17 Deer Creek above Confluence with Sacramento River (SWRCB Deer Creek)

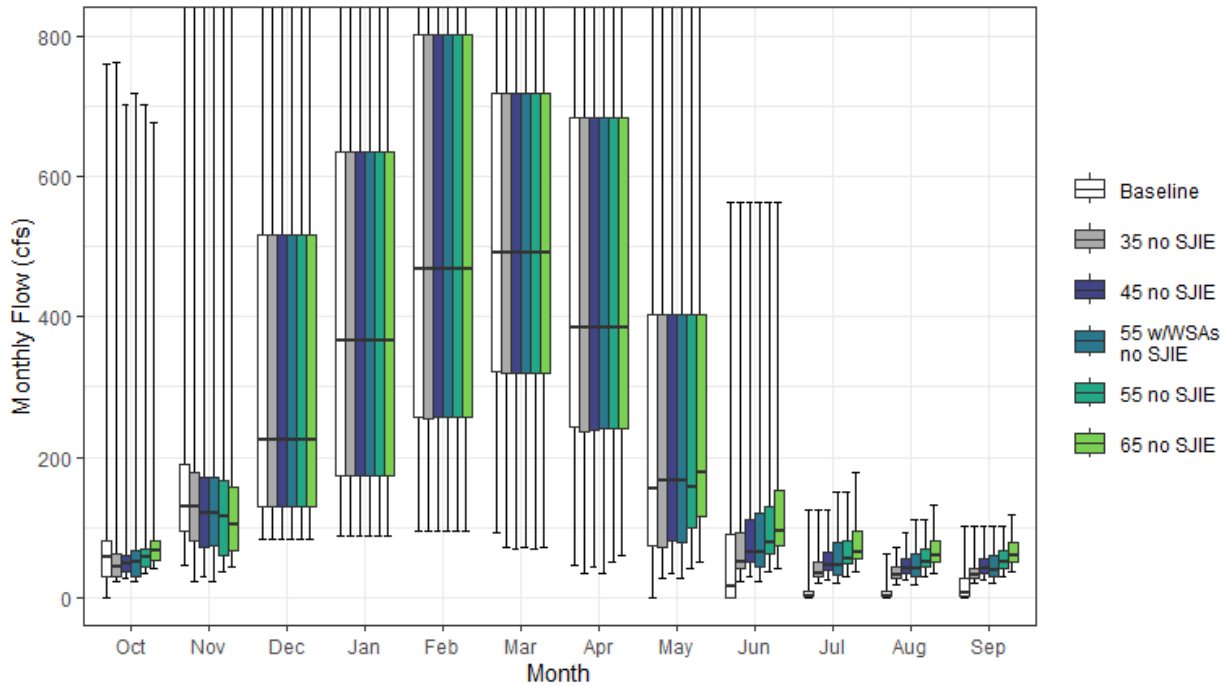

Figure H1a5-17. Deer Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-33. 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 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	167	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 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 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 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 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 H1a5-34. 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 SJIE												
C	41	80	168	170	242	243	113	52	32	25	23	23
D	45	131	256	212	354	412	289	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 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 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 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 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

H1a5.2.18 Elder Creek above Confluence with Sacramento River

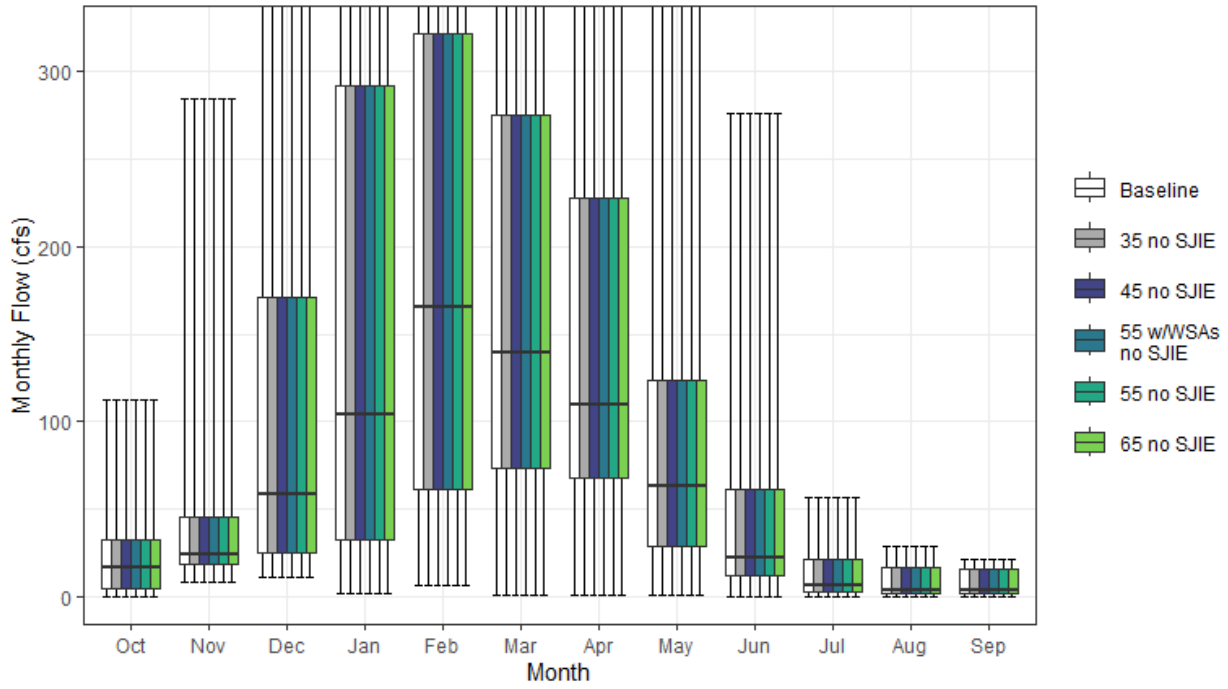

Figure H1a5-18. Elder Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-35. 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 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 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 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 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 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 H1a5-36. 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 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 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 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 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 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

H1a5.2.19 Feather River below Oroville Reservoir (SWRCB Oroville)

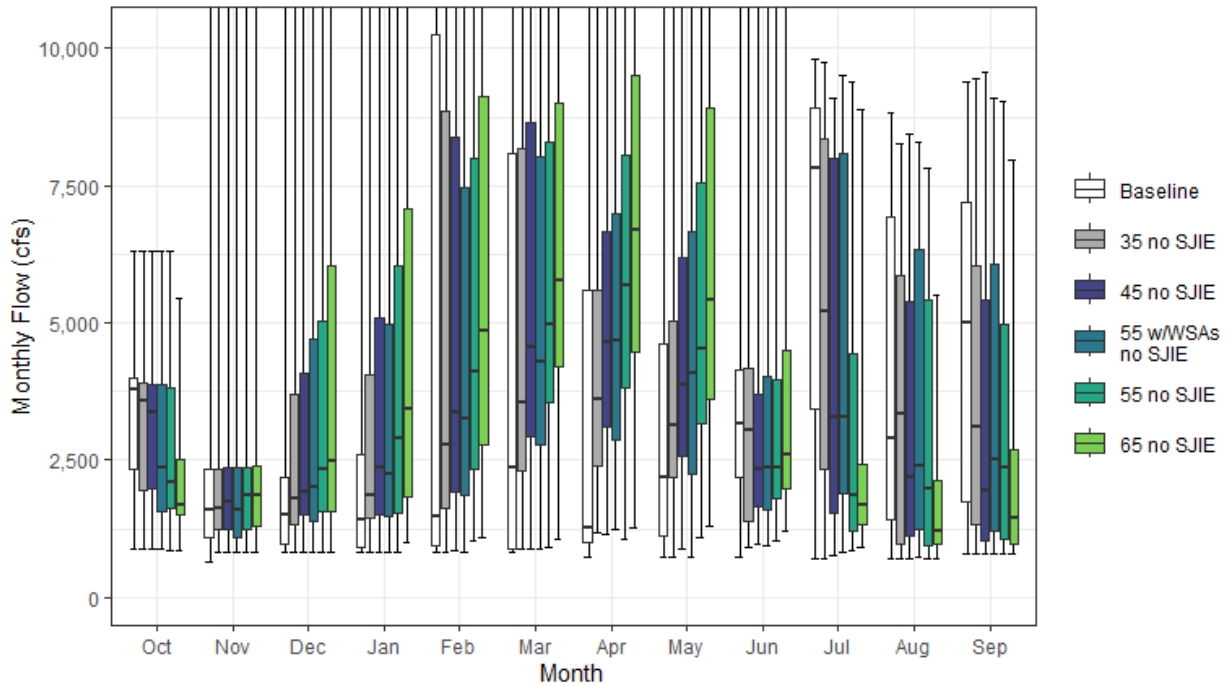

Figure H1a5-19. Feather River Streamflow below Oroville Reservoir Monthly Boxplot (cfs)

Table H1a5-37. 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 SJIE													
0%	870	810	808	808	813	884	1,191	741	907	712	715	790	1,097
10%	1,313	825	837	959	1,304	1,597	1,777	1,573	1,054	1,296	745	955	1,243
25%	1,958	1,231	1,333	1,437	1,611	2,302	2,404	2,177	1,387	2,336	984	1,323	1,900
50%	3,589	1,607	1,810	1,849	2,791	3,556	3,611	3,124	3,044	5,203	3,343	3,113	2,728
75%	3,905	2,345	3,710	4,068	8,856	8,188	5,598	5,031	4,183	8,343	5,865	6,052	4,019
90%	4,601	2,401	8,108	12,174	13,019	14,265	11,068	9,298	6,473	9,024	7,275	8,857	5,673
100%	6,299	15,494	24,353	38,957	46,239	30,830	22,208	20,892	13,401	9,758	8,253	9,451	8,218
Mean	3,147	2,048	3,554	4,652	6,014	6,459	5,102	4,470	3,447	5,328	3,581	3,912	3,118
45 no SJIE													
0%	871	808	808	808	854	887	1,143	872	956	769	711	785	1,101
10%	1,461	837	1,006	1,104	1,531	1,997	2,147	1,750	1,195	962	903	927	1,388
25%	1,989	1,239	1,502	1,494	1,916	2,933	3,093	2,556	1,640	1,535	1,113	1,037	1,673
50%	3,364	1,746	1,921	2,378	3,368	4,570	4,643	3,882	2,331	3,291	2,171	1,960	2,767
75%	3,880	2,364	4,069	5,097	8,389	8,640	6,672	6,175	3,697	8,004	5,398	5,431	4,078
90%	4,027	2,402	8,393	12,197	13,553	13,585	10,688	8,923	6,609	8,534	7,344	8,268	5,631
100%	6,299	15,494	24,353	38,957	41,711	30,830	22,208	20,892	13,401	9,105	8,440	9,566	8,220
Mean	3,072	2,081	3,737	5,040	6,191	6,614	5,740	4,949	3,283	4,331	3,338	3,502	3,127
55 w/WSAs no SJIE													
0%	868	811	808	808	814	884	1,244	745	938	806	734	792	1,053
10%	1,119	826	840	960	1,373	1,874	1,777	1,691	1,119	1,197	987	933	1,241
25%	1,551	1,099	1,374	1,464	1,858	2,769	2,856	2,253	1,580	1,878	1,230	1,208	1,577
50%	2,370	1,604	2,021	2,244	3,252	4,302	4,681	4,092	2,356	3,269	2,383	2,512	2,806
75%	3,868	2,369	4,700	4,981	7,466	8,015	6,989	6,666	4,013	8,091	6,339	6,061	4,194
90%	3,964	2,402	7,557	12,278	13,286	13,827	10,834	9,399	7,382	8,813	7,313	7,702	5,666
100%	6,299	15,494	24,353	38,174	41,579	30,830	22,208	20,819	12,994	9,512	8,307	9,107	8,218
Mean	2,671	2,000	3,648	4,920	5,928	6,379	5,744	5,092	3,326	4,686	3,613	3,644	3,114
55 no SJIE													
0%	838	808	807	808	1,040	901	1,062	1,092	1,039	848	711	784	916
10%	1,176	837	1,065	1,361	1,657	2,400	2,623	1,898	1,275	942	891	929	1,423
25%	1,609	1,240	1,557	1,528	2,340	3,558	3,802	3,161	1,804	1,202	941	1,063	1,779
50%	2,108	1,845	2,331	2,885	4,117	4,981	5,670	4,528	2,364	1,846	1,970	2,352	2,536
75%	3,823	2,376	5,042	6,027	7,997	8,297	8,052	7,544	3,958	4,435	5,415	4,987	4,375
90%	3,930	2,403	8,687	12,928	12,425	13,574	11,337	10,058	7,083	7,837	6,972	6,934	5,615
100%	6,299	15,494	24,353	38,957	33,884	30,830	22,208	18,544	12,990	9,383	7,809	9,038	8,220
Mean	2,544	2,089	4,092	5,320	6,437	6,887	6,521	5,628	3,373	3,162	3,025	3,177	3,148
65 no SJIE													
0%	859	808	808	1,012	1,081	1,065	1,254	1,295	1,201	903	711	784	1,044
10%	1,046	929	1,114	1,509	1,955	2,837	3,101	2,154	1,626	1,084	933	924	1,605
25%	1,509	1,294	1,567	1,842	2,766	4,204	4,462	3,620	1,978	1,326	979	960	1,895
50%	1,683	1,872	2,477	3,424	4,865	5,772	6,705	5,405	2,593	1,695	1,199	1,450	2,650
75%	2,505	2,393	6,047	7,086	9,130	9,015	9,512	8,917	4,484	2,431	2,135	2,694	4,425
90%	3,865	2,407	10,753	12,164	13,959	14,670	13,256	11,578	7,350	5,935	4,485	3,906	5,606
100%	5,456	15,494	24,304	37,042	33,454	30,830	22,208	19,706	11,727	8,894	5,513	7,955	7,809
Mean	2,081	2,106	4,611	5,701	7,001	7,532	7,489	6,522	3,688	2,482	1,839	2,039	3,196

Table H1a5-38. 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 SJIE												
C	3,212	1,557	1,539	1,220	1,481	1,841	1,697	1,576	1,776	2,447	2,057	1,630
D	2,993	1,718	2,158	1,483	2,553	2,911	2,813	2,526	2,265	4,923	4,569	1,631
BN	3,206	1,968	2,052	2,333	3,706	4,289	4,102	3,444	3,171	8,082	6,274	2,954
AN	2,740	1,552	2,331	4,214	7,377	8,044	4,593	3,858	2,673	6,877	4,583	8,055
W	3,350	2,800	7,094	10,448	11,887	12,263	9,434	8,333	5,689	4,798	1,565	5,753
All	3,147	2,048	3,554	4,652	6,014	6,459	5,102	4,470	3,447	5,328	3,581	3,912
45 no SJIE												
C	3,023	1,424	1,598	1,302	1,844	2,201	2,046	1,864	1,616	2,155	1,740	1,482
D	3,014	1,830	2,275	1,671	2,988	3,631	3,620	2,981	1,738	3,191	3,012	1,453
BN	3,139	1,945	2,302	2,715	4,102	5,064	5,197	4,170	2,872	5,345	5,429	1,952
AN	2,671	1,684	2,625	5,107	7,367	7,631	5,601	4,953	2,667	6,360	4,906	7,776
W	3,259	2,861	7,303	10,949	11,712	11,729	9,665	8,529	5,812	4,874	2,477	5,356
All	3,072	2,081	3,737	5,040	6,191	6,614	5,740	4,949	3,283	4,331	3,338	3,502
55 w/WSAs no SJIE												
C	2,758	1,260	1,465	1,197	1,515	1,874	1,754	1,575	1,576	1,863	2,177	1,763
D	2,474	1,700	2,437	1,571	2,608	3,253	3,165	2,621	1,645	2,802	2,504	2,036
BN	2,566	1,739	2,487	2,485	3,838	4,589	5,079	4,170	2,699	7,254	5,217	2,541
AN	2,235	1,742	3,034	4,807	6,381	7,110	5,757	5,331	2,896	6,451	5,665	6,377
W	3,009	2,883	6,681	10,948	11,859	11,917	10,178	9,267	6,060	5,242	3,355	5,433
All	2,671	2,000	3,648	4,920	5,928	6,379	5,744	5,092	3,326	4,686	3,613	3,644
55 no SJIE												
C	2,507	1,253	1,529	1,529	2,150	2,654	2,448	2,182	1,693	1,799	1,788	1,484
D	2,548	1,829	2,692	1,880	3,303	4,347	4,436	3,464	1,899	1,394	1,499	1,527
BN	2,463	1,945	2,794	3,000	4,690	5,517	6,351	5,021	2,766	3,177	3,564	2,199
AN	2,131	1,767	3,400	5,951	6,964	7,928	6,710	6,064	2,865	3,535	5,124	4,125
W	2,776	2,946	7,583	11,080	11,918	11,459	10,255	9,264	5,937	5,026	3,623	5,530
All	2,544	2,089	4,092	5,320	6,437	6,887	6,521	5,628	3,373	3,162	3,025	3,177
65 no SJIE												
C	1,926	1,203	1,716	2,070	2,529	3,134	2,873	2,600	2,082	2,005	1,886	1,573
D	2,089	1,876	3,195	2,168	3,870	5,137	5,227	4,027	2,025	1,206	934	988
BN	2,184	1,823	3,192	3,531	4,965	6,035	7,503	5,746	2,997	1,644	1,520	1,467
AN	1,827	1,789	3,387	6,608	7,879	9,367	7,928	7,132	3,347	1,665	1,529	2,263
W	2,193	3,061	8,582	11,239	12,622	11,847	11,425	10,691	6,339	4,530	2,805	3,331
All	2,081	2,106	4,611	5,701	7,001	7,532	7,489	6,522	3,688	2,482	1,839	2,039

H1a5.2.20 Feather River above Confluence with Sacramento River (SWRCB Feather River)

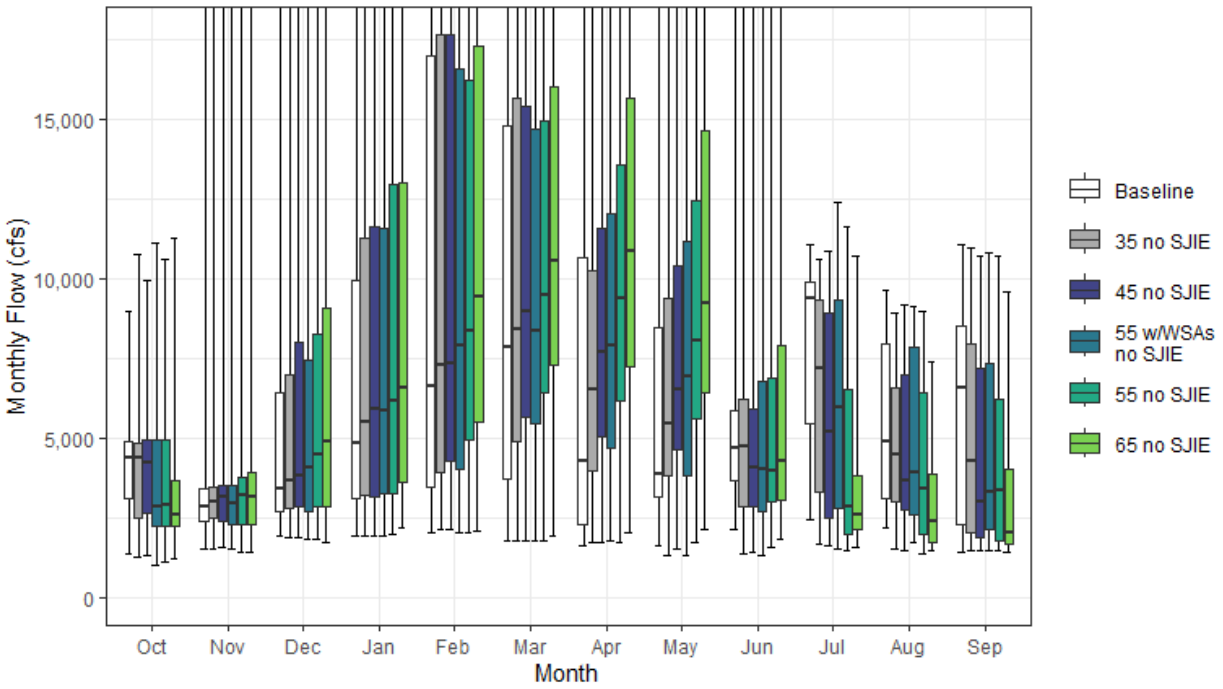

Figure H1a5-20. Feather River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-39. 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 SJIE													
0%	1,280	1,531	1,891	1,930	2,144	1,763	1,726	1,321	1,351	1,652	1,512	1,488	1,557
10%	1,819	1,882	2,129	2,522	2,865	3,307	2,962	2,518	1,969	2,049	2,419	1,706	2,083
25%	2,511	2,480	2,815	3,219	3,939	4,875	3,996	3,801	2,852	3,310	3,007	2,041	3,030
50%	4,360	3,007	3,676	5,496	7,283	8,424	6,515	5,448	4,719	7,187	4,468	4,271	4,262
75%	4,866	3,483	6,995	11,290	17,663	15,703	10,241	9,373	6,209	9,322	6,571	7,962	6,813
90%	5,710	4,301	18,116	24,347	25,961	24,420	17,939	15,778	10,784	9,715	8,273	10,137	9,020
100%	10,794	22,356	40,590	66,481	77,071	50,371	36,743	29,810	22,395	10,595	8,933	10,982	13,340
Mean	3,975	3,566	7,019	9,863	11,971	11,944	8,755	7,598	5,664	6,430	4,886	5,038	5,220
45 no SJIE													
0%	1,320	1,561	1,889	1,935	2,143	1,771	1,707	1,493	1,391	1,628	1,476	1,487	1,550
10%	1,819	1,922	2,220	2,602	2,984	3,492	3,649	2,817	2,092	1,779	1,975	1,644	2,236
25%	2,644	2,407	2,832	3,162	4,261	5,678	5,065	4,653	2,827	2,502	2,732	1,877	2,928
50%	4,228	3,178	3,825	5,907	7,355	8,983	7,717	6,532	4,051	5,211	3,690	3,000	4,294
75%	4,933	3,532	7,999	11,662	17,673	15,428	11,585	10,415	5,891	8,925	6,993	7,181	6,929
90%	5,168	4,768	15,586	25,948	25,867	23,182	17,916	15,722	10,580	9,637	8,377	9,784	9,162
100%	9,943	22,628	40,332	66,342	72,747	50,004	36,652	29,689	21,934	10,883	9,164	10,716	13,339
Mean	3,901	3,643	7,171	10,186	12,169	12,105	9,605	8,265	5,452	5,465	4,622	4,604	5,248
55 w/WSAs no SJIE													
0%	1,015	1,520	1,844	1,936	2,034	1,764	1,771	1,312	1,300	1,512	1,699	1,491	1,433
10%	1,642	1,867	2,069	2,520	2,969	3,445	3,040	2,436	1,883	1,876	1,990	1,711	2,089
25%	2,233	2,281	2,714	3,256	4,031	5,475	4,711	3,826	2,671	2,782	2,605	2,124	2,893
50%	2,857	2,947	4,084	5,883	7,936	8,367	7,915	6,914	4,044	5,960	3,929	3,319	4,300
75%	4,960	3,515	7,457	11,602	16,615	14,694	12,061	11,179	6,764	9,345	7,877	7,339	7,508
90%	5,095	4,744	14,157	22,286	25,500	23,375	17,698	15,436	10,977	10,169	8,566	9,468	9,330
100%	11,130	22,179	39,264	65,252	72,648	50,739	36,576	29,981	21,160	12,432	9,147	10,824	13,355
Mean	3,536	3,616	6,969	9,988	11,773	11,759	9,621	8,410	5,476	6,070	5,016	4,820	5,241
55 no SJIE													
0%	1,090	1,420	1,813	1,968	2,052	1,774	1,731	1,724	1,581	1,487	1,388	1,448	1,385
10%	1,645	1,834	2,145	2,801	3,234	4,058	4,459	3,015	2,007	1,693	1,580	1,593	2,307
25%	2,220	2,307	2,853	3,234	4,957	6,406	6,152	5,629	3,013	1,996	2,000	1,775	3,096
50%	2,891	3,208	4,467	6,168	8,352	9,489	9,389	8,059	3,997	2,861	3,390	3,364	4,339
75%	4,927	3,757	8,277	12,990	16,232	14,992	13,568	12,466	6,869	6,533	6,449	6,220	7,421
90%	5,143	5,045	16,096	24,395	25,571	25,126	19,583	16,897	11,080	9,200	8,303	8,537	9,257
100%	10,643	22,814	40,166	65,980	65,089	49,988	36,501	27,748	21,172	11,626	8,970	10,738	13,353
Mean	3,426	3,676	7,507	10,333	12,386	12,441	10,732	9,344	5,574	4,322	4,190	4,214	5,304
65 no SJIE													
0%	1,224	1,428	1,744	2,178	2,060	1,939	2,004	2,143	1,812	1,569	1,457	1,435	1,512
10%	1,586	1,815	2,170	3,022	3,612	4,671	5,268	3,422	2,230	1,770	1,629	1,602	2,576
25%	2,214	2,297	2,839	3,592	5,511	7,302	7,238	6,428	3,046	2,113	1,706	1,667	3,197
50%	2,617	3,145	4,891	6,576	9,453	10,572	10,858	9,227	4,293	2,579	2,370	2,030	4,399
75%	3,686	3,906	9,087	13,014	17,320	16,033	15,667	14,665	7,925	3,838	3,846	4,021	7,627
90%	4,957	5,255	18,277	22,428	25,936	26,883	21,763	19,469	11,812	7,972	5,834	5,375	9,248
100%	11,288	22,882	40,278	63,215	61,957	50,000	36,661	29,738	20,704	10,709	7,386	9,587	13,079
Mean	3,010	3,690	8,063	10,687	12,923	13,138	12,099	10,713	6,043	3,649	2,979	3,049	5,416

Table H1a5-40. 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 SJIE												
C	3,715	2,629	3,020	2,887	3,439	3,574	2,757	2,520	2,404	2,918	2,643	2,135
D	3,736	2,970	4,124	3,677	5,324	6,322	4,879	4,259	3,350	5,584	5,329	2,352
BN	3,964	3,143	4,092	5,691	8,424	9,015	7,568	6,101	4,987	8,795	7,141	3,865
AN	3,474	3,396	5,461	10,953	14,502	15,493	8,356	7,604	4,902	8,174	6,196	9,397
W	4,494	4,839	13,752	20,326	22,631	20,967	15,707	13,701	9,832	6,727	3,806	7,554
All	3,975	3,566	7,019	9,863	11,971	11,944	8,755	7,598	5,664	6,430	4,886	5,038
45 no SJIE												
C	3,549	2,505	3,116	3,019	3,855	4,111	3,342	2,969	2,272	2,589	2,282	1,967
D	3,755	3,099	4,277	3,830	5,902	7,053	6,010	5,021	2,824	3,896	3,789	2,157
BN	3,904	3,142	4,326	6,030	8,794	9,711	8,926	7,037	4,648	6,166	6,278	2,788
AN	3,390	3,563	5,795	11,745	14,480	14,918	9,487	8,805	4,858	7,688	6,450	9,104
W	4,399	4,998	13,808	20,679	22,412	20,464	16,059	14,031	9,823	6,818	4,702	7,156
All	3,901	3,643	7,171	10,186	12,169	12,105	9,605	8,265	5,452	5,465	4,622	4,604
55 w/WSAs no SJIE												
C	3,284	2,332	2,940	2,889	3,455	3,663	2,838	2,488	2,167	2,311	2,680	2,208
D	3,244	2,986	4,416	3,764	5,472	6,615	5,384	4,461	2,651	3,522	3,316	2,735
BN	3,370	2,966	4,477	5,899	8,536	8,990	8,752	6,950	4,425	8,042	6,280	3,551
AN	2,981	3,637	6,115	11,199	13,511	14,153	10,071	9,359	5,209	8,002	7,346	7,912
W	4,209	5,167	12,908	20,443	22,185	20,644	16,716	15,009	10,085	7,922	5,775	7,309
All	3,536	3,616	6,969	9,988	11,773	11,759	9,621	8,410	5,476	6,070	5,016	4,820
55 no SJIE												
C	3,080	2,300	3,039	3,222	4,192	4,750	3,999	3,491	2,385	2,191	2,248	1,935
D	3,310	3,119	4,759	3,944	6,400	7,964	7,237	5,892	3,013	2,092	2,243	2,185
BN	3,282	3,159	4,754	6,290	9,273	10,137	10,545	8,406	4,671	4,054	4,387	2,923
AN	2,910	3,628	6,614	12,451	14,211	15,229	11,036	10,498	5,144	4,964	6,413	5,263
W	3,994	5,165	14,005	20,524	22,388	20,169	16,882	15,128	9,897	7,005	5,638	7,316
All	3,426	3,676	7,507	10,333	12,386	12,441	10,732	9,344	5,574	4,322	4,190	4,214
65 no SJIE												
C	2,547	2,175	3,224	3,729	4,680	5,437	4,679	4,123	2,844	2,365	2,278	1,914
D	2,881	3,163	5,315	4,177	7,110	9,038	8,461	6,858	3,244	1,874	1,641	1,641
BN	3,008	3,010	5,196	6,842	9,634	10,748	12,249	9,696	4,981	2,458	2,273	2,161
AN	2,660	3,669	6,563	13,200	14,802	16,808	12,700	12,242	5,752	3,076	2,836	3,444
W	3,491	5,325	15,075	20,600	22,913	20,297	18,388	17,088	10,592	6,619	4,838	5,090
All	3,010	3,690	8,063	10,687	12,923	13,138	12,099	10,713	6,043	3,649	2,979	3,049

H1a5.2.21 Mill Creek above Confluence with Sacramento River (SWRCB Mill Creek)

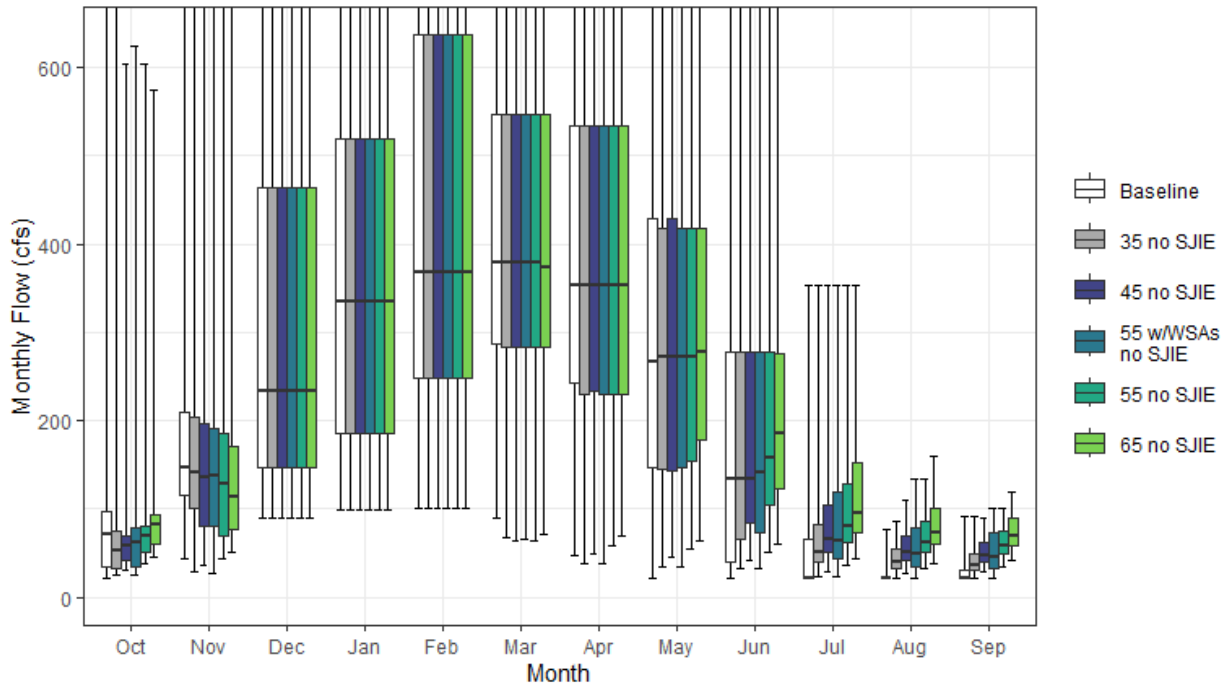

Figure H1a5-21. Mill Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-41. 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 SJIE													
0%	24	29	90	100	101	67	38	35	32	23	21	22	37
10%	29	51	119	142	176	199	159	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 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 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 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 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 H1a5-42. 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 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 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 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 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 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

H1a5.2.22 Mokelumne River above Pardee Reservoir (SWRCB Pardee Inflow)

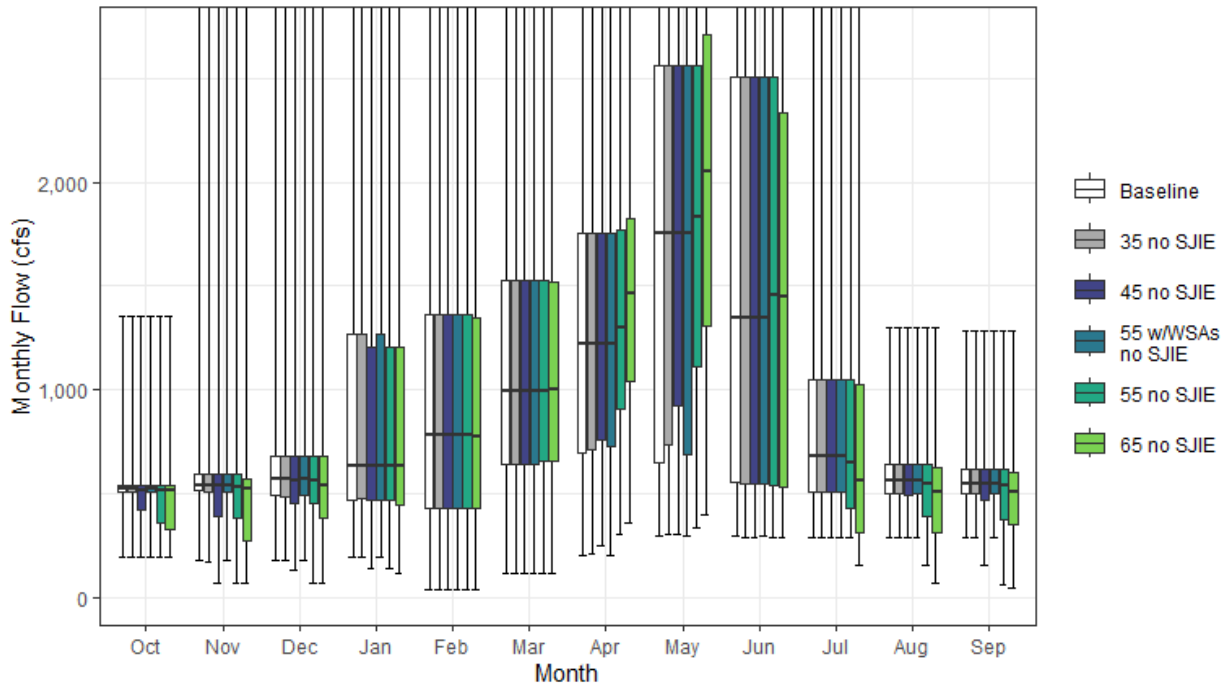

Figure H1a5-22. Mokelumne River Streamflow above Pardee Reservoir Monthly Boxplot (cfs)

Table H1a5-43. 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 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	2,150	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 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%	553	792	1,660	1,926	2,128	2,150	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 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	689	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	2,150	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 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	1,523	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 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 H1a5-44. 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 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 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 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 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 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

H1a5.2.23 Mokelumne River below Camanche Reservoir (SWRCB Camanche)

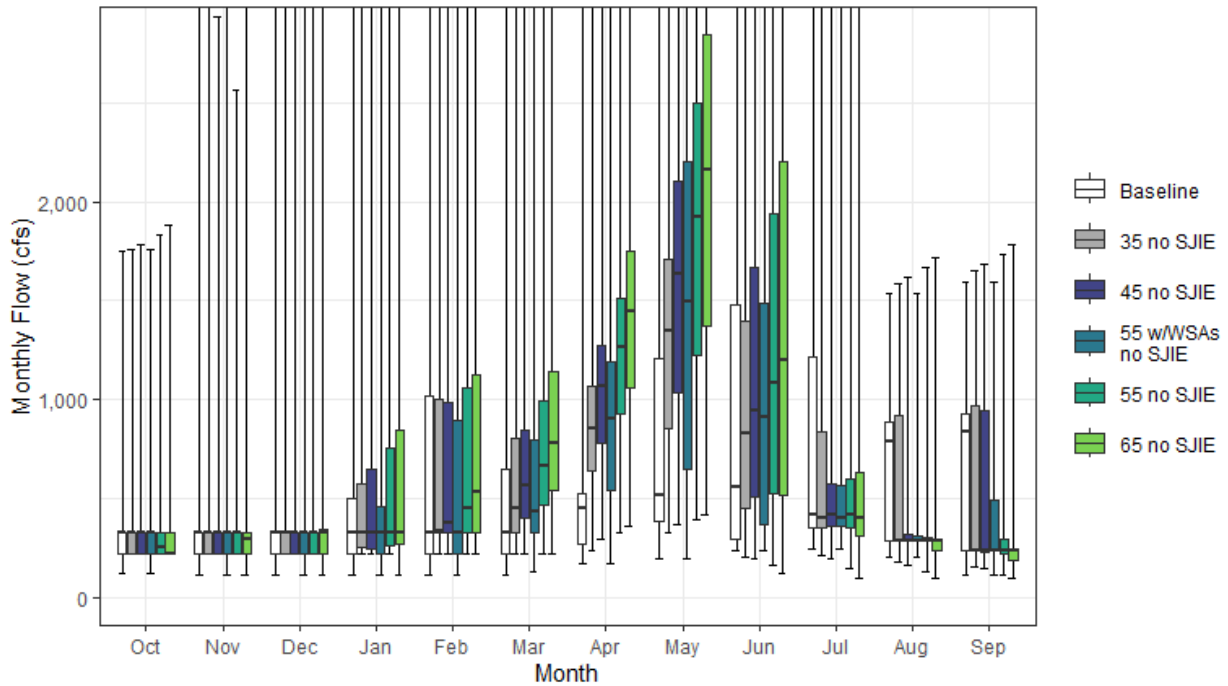

Figure H1a5-23. Mokelumne River Streamflow below Camanche Reservoir Monthly Boxplot (cfs)

Table H1a5-45. 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 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	838	915	970	720
90%	571	461	1,683	1,950	1,880	1,629	1,818	2,639	2,140	1,619	1,070	1,100	1,022
100%	1,754	4,204	3,898	6,085	7,129	3,390	4,345	4,155	4,475	3,059	1,587	1,652	1,717
Mean	344	398	589	743	814	720	988	1,452	1,052	685	516	567	535
45 no SJIE													
0%	220	220	220	220	220	220	296	371	193	192	163	143	180
10%	220	220	220	220	221	325	599	659	325	262	200	172	245
25%	220	221	220	248	325	400	780	1,038	504	356	287	231	325
50%	325	326	325	325	376	568	1,063	1,633	940	415	288	240	444
75%	326	326	326	646	987	845	1,270	2,107	1,668	574	314	944	735
90%	560	494	1,531	1,950	1,633	1,630	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	3,390	4,348	4,181	4,505	3,089	1,617	1,682	1,710
Mean	338	380	572	753	809	781	1,150	1,684	1,169	622	454	495	555
55 w/WSAs no 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	356	287	239	279
50%	326	325	325	325	325	437	899	1,497	912	401	287	240	379
75%	326	326	326	458	893	792	1,191	2,204	1,488	566	307	492	692
90%	546	331	1,526	1,950	1,892	1,630	1,876	2,790	2,549	1,146	997	1,040	1,006
100%	1,754	3,889	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 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	156	262
25%	220	220	221	257	326	467	929	1,227	525	350	287	220	354
50%	251	325	326	326	451	663	1,267	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	408	1,204	1,951	1,674	1,630	1,925	2,976	2,550	1,330	1,084	1,127	1,045
100%	1,831	2,567	3,800	6,085	7,128	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 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	101	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	3,363	6,084	7,101	3,147	4,348	4,320	4,714	3,066	1,717	1,782	1,757
Mean	339	375	555	757	889	953	1,476	2,164	1,461	546	329	365	615

Table H1a5-46. 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 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	334	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	988	1,452	1,052	685	516	567
45 no 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	1,581	1,006	432	297	294
AN	281	511	579	886	883	922	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	572	753	809	781	1,150	1,684	1,169	622	454	495
55 w/WSAs no 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	755	1,055	1,938	1,143	566	407	489
W	416	462	1,037	1,489	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 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	1,340	1,737	2,736	2,286	1,056	740	854
All	343	375	559	758	843	860	1,313	1,926	1,312	584	405	421
65 no 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	1,530	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

H1a5.2.24 Mokelumne River above Confluence with Delta (SWRCB Mokelumne River)

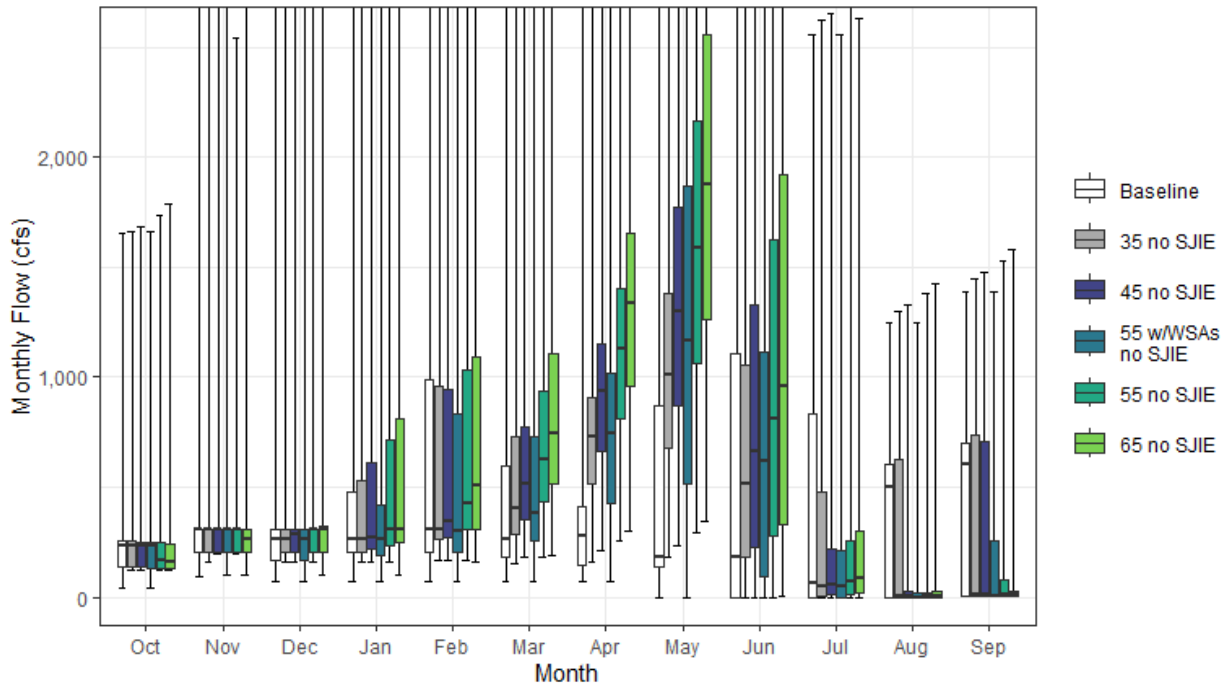

Figure H1a5-24. Mokelumne River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a5-47. 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 SJIE													
0%	125	162	162	163	164	151	164	185	0	0	0	2	102
10%	126	201	164	171	205	247	395	425	67	0	0	7	146
25%	136	203	202	208	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	306	308	532	959	727	907	1,379	1,056	482	628	737	600
90%	493	416	1,632	1,932	1,827	1,567	1,707	2,323	1,767	1,183	782	889	904
100%	1,658	4,179	3,878	6,064	7,106	3,335	4,240	3,820	4,099	2,621	1,299	1,450	1,591
Mean	256	372	548	701	781	662	865	1,185	751	339	244	351	425
45 no SJIE													
0%	125	200	162	163	164	180	212	237	1	0	0	2	117
10%	126	201	179	165	205	273	508	547	86	1	0	7	165
25%	136	202	204	217	268	354	667	872	228	10	1	7	222
50%	231	305	289	272	348	514	938	1,300	662	60	5	9	334
75%	252	306	308	613	945	776	1,154	1,774	1,329	219	27	711	617
90%	469	434	1,480	1,900	1,583	1,577	1,708	2,442	1,841	1,211	788	878	917
100%	1,685	2,881	3,878	6,064	7,105	3,336	4,243	3,845	4,129	2,651	1,329	1,480	1,584
Mean	251	356	541	713	777	727	1,028	1,418	874	281	183	281	448
55 w/WSAs no SJIE													
0%	42	98	75	75	75	75	72	0	0	0	0	2	65
10%	125	200	162	163	176	158	147	135	0	0	0	7	78
25%	133	201	164	187	205	256	429	518	92	1	0	7	177
50%	231	305	267	268	304	382	742	1,164	620	46	1	8	268
75%	251	306	308	419	834	730	1,017	1,870	1,115	210	20	260	567
90%	465	312	1,499	1,916	1,841	1,567	1,726	2,455	2,175	718	709	828	882
100%	1,658	3,865	3,878	6,064	7,106	3,330	4,240	3,805	4,057	2,560	1,250	1,390	1,561
Mean	239	346	515	656	717	628	852	1,275	771	236	146	211	397
55 no SJIE													
0%	126	200	162	163	165	185	258	290	0	0	0	4	137
10%	126	200	202	187	213	289	621	668	104	1	0	7	187
25%	134	203	205	232	308	433	815	1,066	278	13	1	7	256
50%	170	305	307	308	426	628	1,131	1,588	809	72	5	9	400
75%	248	306	308	717	1,030	939	1,401	2,167	1,625	257	21	82	651
90%	519	357	1,169	1,932	1,621	1,577	1,767	2,641	2,177	909	796	894	921
100%	1,735	2,543	3,766	6,064	7,105	3,093	4,242	3,895	4,180	2,700	1,380	1,529	1,604
Mean	256	352	532	722	814	810	1,196	1,666	1,038	256	142	212	482
65 no SJIE													
0%	126	101	101	101	162	192	305	343	4	0	0	7	157
10%	126	200	202	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	508	743	1,337	1,877	957	85	8	12	463
75%	241	307	323	809	1,092	1,105	1,655	2,556	1,919	303	25	27	694
90%	521	385	1,150	1,922	1,816	1,750	2,048	3,122	2,571	634	181	914	952
100%	1,785	3,007	3,302	6,049	7,078	3,093	4,242	4,031	4,338	2,628	1,429	1,579	1,638
Mean	254	354	532	727	861	915	1,384	1,942	1,220	255	85	168	524

Table H1a5-48. 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 SJIE												
C	178	236	215	208	239	259	384	465	185	12	3	7
D	200	283	255	237	289	347	636	801	301	21	0	36
BN	280	296	343	292	431	459	794	1,002	557	75	44	181
AN	202	598	556	818	839	782	774	1,278	754	306	218	471
W	343	465	1,069	1,518	1,630	1,190	1,372	1,928	1,505	927	687	824
All	256	372	548	701	781	662	865	1,185	751	339	244	351
45 no SJIE												
C	180	232	216	197	248	289	494	597	239	15	4	8
D	203	283	270	241	320	434	817	1,030	387	27	1	7
BN	270	292	346	305	452	555	1,021	1,288	712	78	10	65
AN	195	486	553	851	847	868	995	1,604	892	210	105	296
W	333	464	1,032	1,538	1,572	1,230	1,485	2,149	1,667	765	555	758
All	251	356	541	713	777	727	1,028	1,418	874	281	183	281
55 w/WSAs no SJIE												
C	172	227	206	196	210	201	154	117	10	1	2	6
D	187	258	231	233	243	284	516	690	236	19	0	7
BN	254	284	336	272	393	430	818	1,091	577	62	4	42
AN	178	542	527	667	738	695	922	1,604	824	204	120	268
W	327	436	997	1,449	1,532	1,207	1,466	2,305	1,670	642	430	553
All	239	346	515	656	717	628	852	1,275	771	236	146	211
55 no SJIE												
C	185	236	228	205	274	337	603	730	291	20	6	10
D	210	274	283	258	355	526	999	1,258	473	33	2	8
BN	274	293	336	333	531	676	1,248	1,574	870	95	5	8
AN	182	449	557	869	885	999	1,216	1,960	1,090	196	23	138
W	347	470	992	1,526	1,589	1,280	1,617	2,405	1,938	671	452	629
All	256	352	532	722	814	810	1,196	1,666	1,038	256	142	212
65 no SJIE												
C	162	219	225	215	295	393	713	862	345	26	15	19
D	213	264	292	278	404	621	1,180	1,487	558	40	4	10
BN	282	299	329	358	617	801	1,474	1,860	1,028	112	6	8
AN	180	474	478	903	939	1,182	1,436	2,316	1,287	232	11	31
W	347	481	1,023	1,494	1,623	1,374	1,813	2,752	2,267	635	261	519
All	254	354	532	727	861	915	1,384	1,942	1,220	255	85	168

H1a5.2.25 Paynes Creek above Confluence with Sacramento River

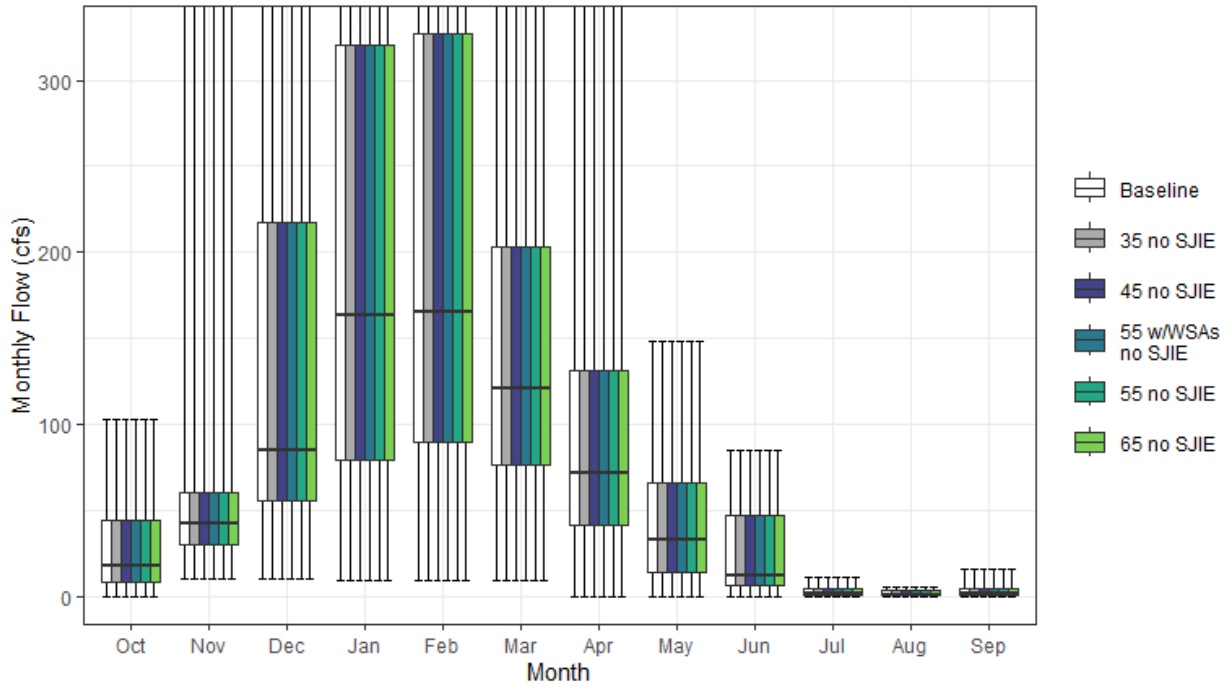

Figure H1a5-25. Paynes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-49. 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 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 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 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 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 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 H1a5-50. 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 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 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 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 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 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

H1a5.2.26 Putah Creek below Lake Berryessa (SWRCB Lake Berryessa)

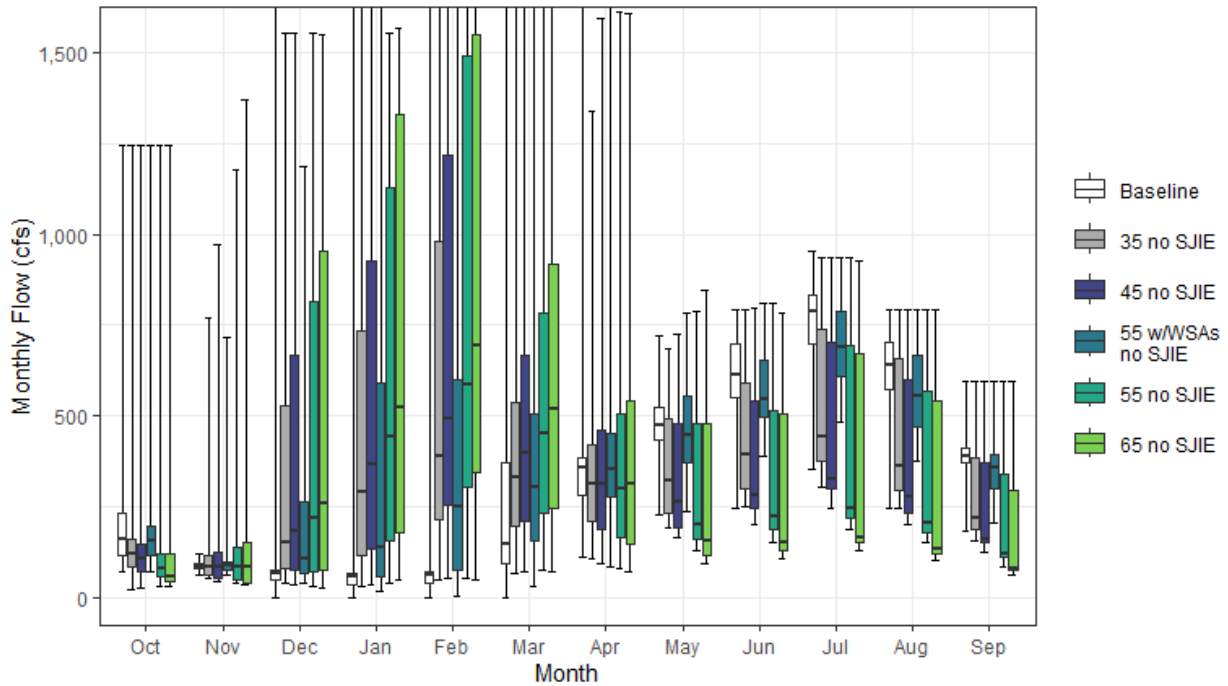

Figure H1a5-26. Putah Creek Streamfow below Lake Berryessa Monthly Boxplot (cfs)

Table H1a5-51. 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 SJIE													
0%	19	51	39	31	50	64	107	191	248	304	246	155	126
10%	64	54	51	63	82	137	184	217	273	339	277	180	149
25%	85	60	77	114	213	194	207	233	301	375	293	187	186
50%	121	84	153	292	390	328	313	320	395	443	360	219	240
75%	162	114	528	733	979	539	420	492	591	741	656	385	361
90%	228	245	846	1,325	1,440	908	656	599	701	838	706	425	470
100%	1,244	768	1,554	2,976	5,284	6,316	1,338	686	790	938	794	596	1,023
Mean	140	122	333	503	667	499	378	375	456	553	458	281	287
45 no SJIE													
0%	24	43	34	33	52	68	94	163	201	246	199	123	101
10%	54	47	44	71	95	140	155	181	222	270	218	144	127
25%	70	53	75	133	255	208	185	192	244	298	234	149	180
50%	105	82	185	366	494	399	313	263	281	328	276	162	230
75%	146	124	669	928	1,220	667	460	477	542	701	598	373	378
90%	174	293	1,089	1,550	1,550	1,143	704	627	665	817	698	421	477
100%	1,246	973	1,554	1,971	4,808	6,316	1,594	726	798	935	794	596	938
Mean	125	134	408	582	712	571	393	342	394	477	396	242	287
55 w/WSAs no SJIE													
0%	69	60	40	16	4	32	85	238	390	484	375	203	166
10%	92	67	54	43	47	82	225	322	433	535	441	287	178
25%	116	74	67	57	74	156	279	371	497	608	471	298	208
50%	158	86	107	136	249	303	354	448	545	690	555	356	260
75%	194	97	263	590	601	505	452	553	651	789	666	394	331
90%	238	168	716	750	750	750	681	630	732	838	711	424	422
100%	1,246	717	1,186	2,683	5,464	6,316	2,516	786	811	935	794	596	1,001
Mean	167	112	224	324	451	442	415	464	569	690	570	351	289
55 no SJIE													
0%	30	38	29	39	51	76	81	129	153	189	151	82	81
10%	45	42	40	73	108	142	128	143	170	206	164	109	115
25%	57	47	72	157	304	231	165	159	188	220	177	113	167
50%	81	84	219	443	586	453	298	202	221	244	205	120	237
75%	121	136	814	1,129	1,494	785	504	478	513	692	567	341	386
90%	165	329	1,329	1,550	1,550	1,396	785	646	665	813	698	421	501
100%	1,246	1,178	1,554	1,554	4,010	4,520	1,615	786	809	938	794	596	845
Mean	111	147	473	653	777	613	407	314	338	407	338	207	288
65 no SJIE													
0%	31	33	25	47	48	68	71	91	105	131	101	60	62
10%	36	36	36	82	122	139	95	103	120	138	112	71	104
25%	43	41	76	178	345	247	148	116	130	150	119	76	163
50%	57	84	259	524	693	520	314	156	150	164	135	81	235
75%	120	153	955	1,329	1,550	916	539	478	506	672	543	294	399
90%	163	371	1,542	1,550	1,550	1,550	887	661	664	798	690	408	519
100%	1,246	1,370	1,552	1,570	3,291	3,745	1,608	848	785	927	794	596	816
Mean	97	160	527	719	826	670	422	288	286	340	284	173	288

Table H1a5-52. 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 SJIE												
C	110	67	135	158	223	233	186	254	313	366	312	197
D	126	106	220	187	346	280	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	380	532	585	514	309
W	176	186	593	938	1,203	917	606	517	567	742	613	374
All	140	122	333	503	667	499	378	375	456	553	458	281
45 no SJIE												
C	91	59	157	195	271	245	157	201	245	286	244	153
D	106	112	271	231	431	332	263	258	332	382	306	189
BN	121	88	251	419	619	424	310	278	335	394	321	194
AN	101	135	424	843	928	563	387	342	427	478	412	252
W	167	219	735	1,045	1,126	1,015	669	520	542	702	582	356
All	125	134	408	582	712	571	393	342	394	477	396	242
55 w/WSAs no SJIE												
C	143	81	88	123	106	190	274	407	518	615	526	331
D	154	99	155	152	213	231	333	448	611	719	570	355
BN	165	87	162	197	260	220	293	398	524	630	510	310
AN	157	106	219	324	433	410	409	426	599	660	587	352
W	194	158	390	639	937	886	631	564	583	758	624	383
All	167	112	224	324	451	442	415	464	569	690	570	351
55 no SJIE												
C	74	52	179	233	311	259	134	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	315	229	258	296	244	147
AN	86	150	482	942	1,054	677	411	319	350	392	339	207
W	159	253	847	1,129	1,157	1,014	723	525	526	671	559	341
All	111	147	473	653	777	613	407	314	338	407	338	207
65 no SJIE												
C	57	46	202	271	354	259	113	115	131	148	124	78
D	78	127	366	323	566	438	240	164	179	205	160	97
BN	85	90	334	597	779	576	324	187	189	211	176	106
AN	73	165	541	1,025	1,113	793	432	300	283	310	273	164
W	150	288	934	1,203	1,185	1,071	778	530	509	637	533	324
All	97	160	527	719	826	670	422	288	286	340	284	173

H1a5.2.27 Putah Creek above Yolo Bypass (SWRCB Putah Creek)

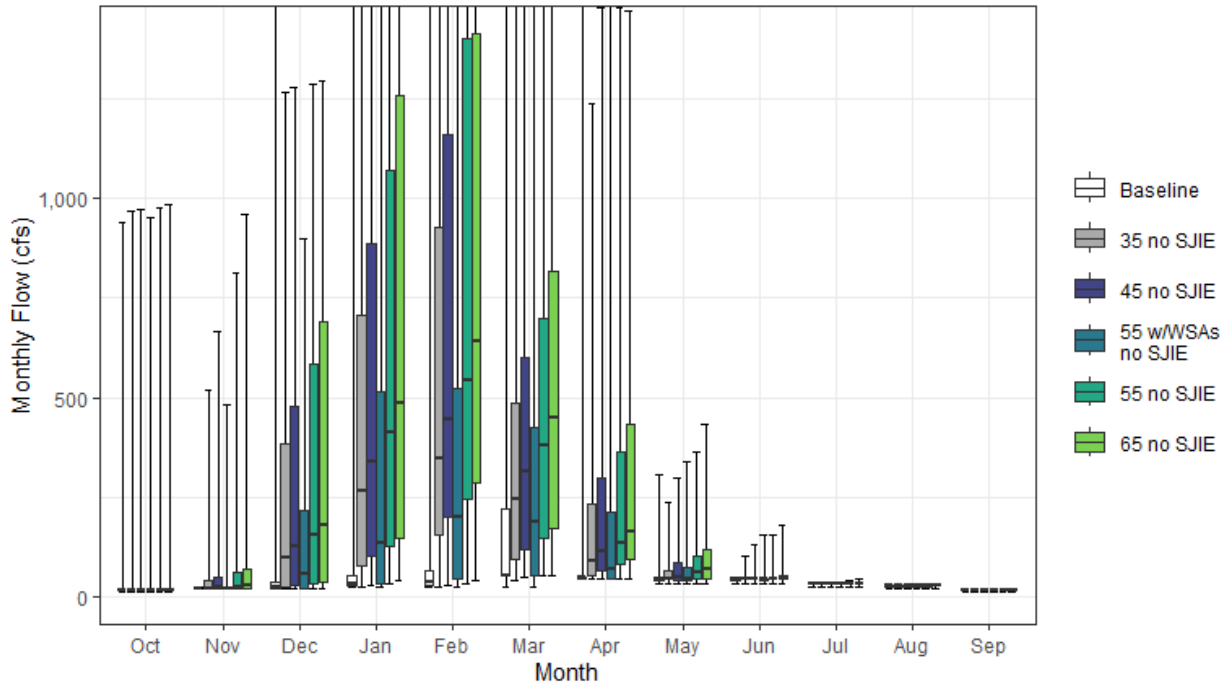

Figure H1a5-27. Putah Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a5-53. 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 SJIE													
0%	11	18	18	23	23	40	45	32	32	24	19	12	23
10%	14	20	20	41	53	53	46	42	42	32	25	14	39
25%	16	20	24	78	154	92	53	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	930	486	231	66	44	33	26	16	185
90%	18	140	629	1,209	1,328	813	554	130	45	34	27	17	254
100%	968	518	1,267	2,858	4,923	5,724	1,238	235	102	34	28	21	741
Mean	27	58	241	467	607	407	205	66	44	32	26	16	131
45 no SJIE													
0%	11	18	18	27	27	48	43	31	31	24	19	11	23
10%	14	19	20	53	65	65	44	40	41	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	113	49	43	33	26	16	126
75%	17	49	478	887	1,161	599	297	83	44	33	26	16	222
90%	19	181	812	1,416	1,459	1,019	644	169	51	34	27	17	275
100%	974	666	1,280	1,959	4,498	5,724	1,479	297	128	34	28	20	663
Mean	28	71	299	542	652	478	244	77	46	32	26	16	150
55 w/WSAs no SJIE													
0%	11	18	18	22	23	24	43	31	31	24	19	11	19
10%	14	18	19	24	28	50	43	40	40	31	25	14	22
25%	16	18	21	31	46	50	45	40	41	31	25	15	30
50%	16	20	55	134	200	186	69	43	42	32	25	16	70
75%	17	24	214	516	524	426	210	72	44	33	26	16	126
90%	17	83	531	692	746	683	508	153	50	34	27	17	188
100%	954	481	900	2,596	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 SJIE													
0%	12	18	19	33	33	50	43	31	31	24	19	11	25
10%	14	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	82
50%	16	24	152	412	542	381	136	59	43	33	26	16	151
75%	17	59	582	1,073	1,404	697	365	101	45	33	26	16	228
90%	22	222	988	1,450	1,467	1,245	659	207	61	34	27	17	299
100%	979	814	1,287	1,660	3,783	4,116	1,479	364	156	39	27	20	577
Mean	29	84	349	609	715	524	280	90	49	32	26	16	168
65 no SJIE													
0%	12	18	19	39	38	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	69	689	1,258	1,414	818	431	119	51	33	26	16	246
90%	26	261	1,119	1,461	1,481	1,395	758	243	78	34	27	17	331
100%	984	962	1,296	1,662	3,140	3,429	1,470	432	180	46	32	21	551
Mean	29	98	391	671	764	582	317	104	52	33	26	16	184

Table H1a5-54. 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 SJIE												
C	16	20	91	143	181	128	52	42	41	32	25	15
D	16	45	156	156	300	196	97	49	43	32	26	16
BN	17	32	135	301	446	265	138	51	42	32	26	16
AN	17	59	258	692	724	376	166	80	43	33	26	16
W	51	103	445	882	1,114	812	426	94	49	33	25	16
All	27	58	241	467	607	407	205	66	44	32	26	16
45 no SJIE												
C	16	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	338	175	56	42	32	25	16
AN	18	74	316	800	868	484	212	100	44	33	26	16
W	53	130	550	981	1,048	903	493	119	54	33	26	16
All	28	71	299	542	652	478	244	77	46	32	26	16
55 w/WSAs no SJIE												
C	15	19	48	103	63	50	44	39	39	30	24	14
D	16	33	103	117	174	134	63	44	41	31	25	15
BN	17	26	98	177	228	144	84	45	41	31	25	15
AN	17	37	155	321	412	331	165	80	43	33	26	16
W	50	76	293	609	870	778	448	124	56	33	26	16
All	26	43	157	300	406	341	193	72	46	32	25	15
55 no SJIE												
C	17	22	132	220	279	191	61	43	41	31	25	15
D	16	64	236	243	449	306	142	57	43	32	26	16
BN	18	42	206	469	648	413	214	64	44	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	549	144	61	33	26	16
All	29	84	349	609	715	524	280	90	49	32	26	16
65 no SJIE												
C	18	24	153	259	327	209	67	45	42	31	25	15
D	16	73	271	287	507	361	166	62	44	32	26	16
BN	19	48	237	553	716	483	253	72	45	32	26	16
AN	21	104	407	970	1,041	698	306	143	52	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

H1a5.2.28 Sacramento River below Shasta Reservoir (SWRCB Shasta)

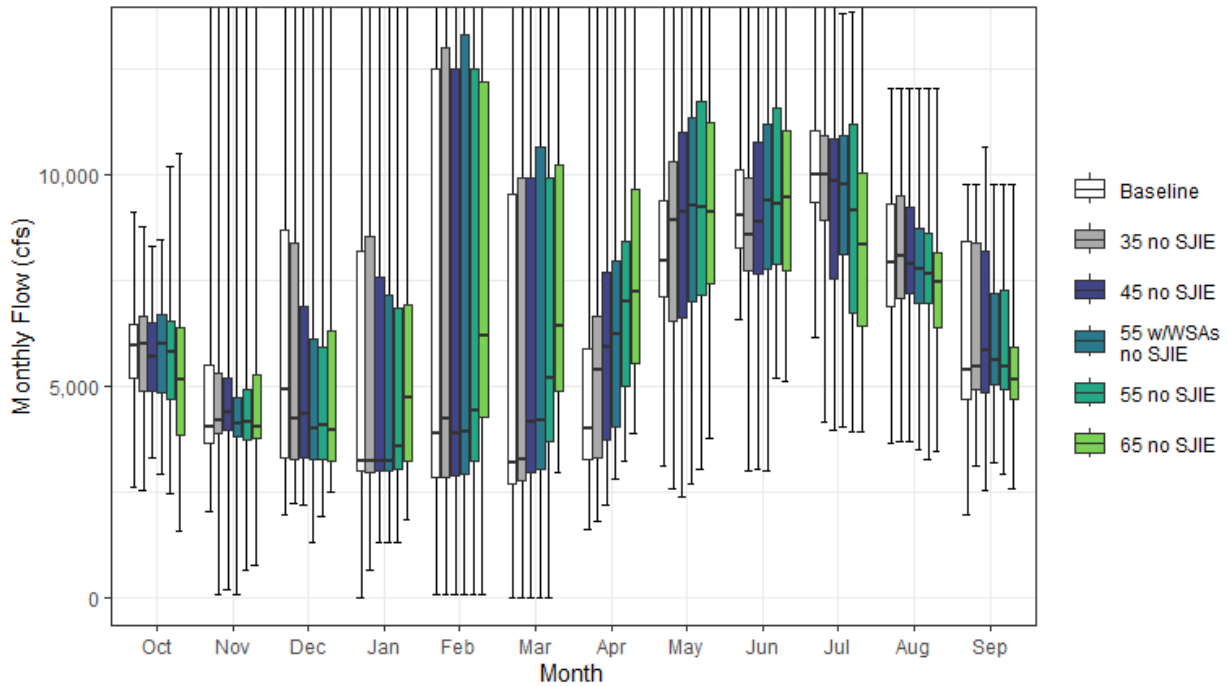

Figure H1a5-28. Sacramento River Streamflow below Shasta Reservoir Monthly Boxplot (cfs)

Table H1a5-55. 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 SJIE													
0%	2,514	78	2,217	634	55	0	1,806	2,567	2,999	4,158	3,693	3,117	3,227
10%	4,295	3,260	3,066	2,410	2,174	2,277	3,202	5,329	6,110	6,065	6,077	4,254	3,559
25%	4,882	3,881	3,245	2,964	2,832	2,758	3,292	6,525	7,724	8,905	7,067	4,904	4,095
50%	6,006	4,177	4,227	3,240	4,213	3,243	5,376	8,934	8,574	10,010	8,072	5,440	4,924
75%	6,640	5,318	8,377	8,516	12,982	9,911	6,632	10,290	9,920	10,925	9,486	8,369	6,477
90%	7,204	6,943	16,064	18,606	26,297	17,885	10,673	11,336	12,003	12,119	10,746	8,859	8,123
100%	8,746	26,014	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,502	12,022	9,772	10,669
Mean	5,830	4,886	6,787	7,446	9,699	7,645	6,389	8,691	9,032	9,643	8,242	6,374	5,469
45 no SJIE													
0%	3,283	170	2,176	1,298	55	0	2,189	2,391	3,026	3,934	3,701	2,545	3,145
10%	4,379	3,460	3,088	2,472	2,351	2,540	3,253	5,516	6,376	5,921	6,238	4,382	3,512
25%	4,877	3,967	3,314	2,990	2,870	2,956	3,716	6,593	7,643	7,520	7,197	4,833	4,057
50%	5,686	4,369	4,353	3,240	3,877	4,162	5,928	9,096	8,885	9,834	7,869	5,825	4,874
75%	6,475	5,177	6,888	7,580	12,512	9,911	7,683	11,014	10,765	10,825	9,208	8,197	6,506
90%	7,292	6,108	14,204	18,606	28,490	17,885	10,673	11,900	11,764	12,145	10,763	8,843	8,055
100%	8,311	24,022	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,355	12,022	10,638	10,669
Mean	5,713	4,859	6,483	7,353	9,602	7,737	6,967	8,958	9,290	9,251	8,202	6,296	5,471
55 w/WSAs no SJIE													
0%	2,922	81	1,294	1,298	55	0	2,782	2,670	3,008	4,018	3,477	3,176	2,865
10%	3,936	3,319	2,972	2,424	2,309	2,699	3,256	5,626	6,613	5,879	5,925	4,529	3,504
25%	4,829	3,798	3,245	2,984	2,919	3,012	4,034	6,985	7,770	8,115	6,969	5,030	4,079
50%	5,995	4,097	3,999	3,232	3,898	4,201	6,217	9,280	9,376	9,775	7,747	5,613	4,825
75%	6,676	4,727	6,125	7,142	13,302	10,637	7,940	11,353	11,177	10,900	8,709	7,183	6,565
90%	7,330	5,575	14,603	17,711	28,708	18,031	10,673	12,251	12,157	11,650	10,494	8,617	8,102
100%	8,467	24,416	27,665	48,623	49,683	44,066	28,864	17,628	29,676	13,793	12,022	9,772	10,669
Mean	5,767	4,523	6,266	7,164	9,741	8,000	7,044	9,183	9,538	9,334	7,938	6,161	5,468
55 no SJIE													
0%	2,445	645	1,895	1,298	51	0	3,216	3,018	5,175	3,897	3,271	2,927	3,056
10%	3,879	3,248	3,138	2,829	2,887	3,133	3,936	6,064	6,824	5,563	5,981	4,393	3,466
25%	4,671	3,737	3,244	3,046	3,222	3,665	4,981	7,153	7,883	6,722	6,941	4,922	4,046
50%	5,813	4,132	4,057	3,555	4,423	5,174	7,003	9,244	9,313	9,129	7,632	5,462	4,891
75%	6,533	4,928	5,909	6,857	12,512	9,909	8,429	11,715	11,585	11,170	8,604	7,278	6,423
90%	7,150	6,108	12,271	17,019	26,006	17,095	10,995	12,907	12,849	12,709	10,495	8,617	8,291
100%	10,191	14,566	27,665	48,623	49,683	44,066	28,864	16,985	29,676	13,843	12,022	9,772	10,669
Mean	5,619	4,523	5,943	7,027	9,645	8,183	7,668	9,446	9,745	9,019	7,856	6,149	5,477
65 no SJIE													
0%	1,580	757	2,492	1,844	50	2,958	3,881	3,752	5,101	3,899	3,445	2,550	3,140
10%	3,059	3,317	3,128	3,008	3,108	3,865	4,478	6,440	6,860	5,070	5,384	4,302	3,591
25%	3,856	3,752	3,237	3,238	4,253	4,875	5,534	7,417	7,718	6,430	6,380	4,672	3,960
50%	5,131	4,025	3,942	4,717	6,175	6,397	7,223	9,119	9,442	8,353	7,454	5,154	5,032
75%	6,359	5,274	6,295	6,900	12,183	10,208	9,663	11,237	11,031	10,023	8,136	5,931	6,687
90%	7,064	6,728	12,200	17,020	25,568	15,349	11,461	12,956	13,530	11,202	9,450	8,270	8,129
100%	10,504	17,058	27,648	48,624	43,900	44,067	28,113	14,938	28,464	16,091	12,025	9,775	10,671
Mean	5,128	4,685	5,846	7,584	10,139	8,842	8,202	9,420	9,746	8,286	7,427	5,584	5,478

Table H1a5-56. 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 SJIE												
C	5,345	4,467	4,233	3,883	2,774	3,394	4,349	5,964	6,541	6,100	7,922	5,025
D	5,766	4,727	4,657	3,550	2,902	3,761	5,551	9,145	9,737	9,405	7,669	4,925
BN	6,097	4,483	5,000	3,569	7,626	3,667	4,819	8,739	9,545	11,297	7,811	5,240
AN	5,976	5,018	5,025	7,012	14,232	9,382	5,263	9,632	8,935	11,059	7,254	7,402
W	5,908	5,427	11,549	14,833	17,878	14,586	9,536	9,404	9,556	10,093	9,500	8,461
All	5,830	4,886	6,787	7,446	9,699	7,645	6,389	8,691	9,032	9,643	8,242	6,374
45 no SJIE												
C	5,209	4,341	3,915	3,406	3,163	4,035	4,637	6,002	6,516	5,694	7,773	4,839
D	5,446	4,653	4,404	3,520	2,840	3,750	6,354	8,524	9,102	8,490	8,113	5,088
BN	5,912	4,687	5,037	3,709	7,134	3,958	5,777	9,167	10,081	10,860	8,028	5,102
AN	5,813	4,496	5,236	6,745	13,921	8,805	5,590	10,810	10,077	10,696	6,945	8,013
W	6,012	5,539	10,791	14,821	17,829	14,600	9,965	9,978	10,092	10,109	9,109	8,027
All	5,713	4,859	6,483	7,353	9,602	7,737	6,967	8,958	9,290	9,251	8,202	6,296
55 w/WSAs no SJIE												
C	5,448	3,909	3,263	3,055	2,860	3,409	3,997	5,729	6,404	5,714	7,251	5,752
D	5,522	4,224	4,272	3,386	2,928	4,074	6,031	8,151	8,694	9,158	8,070	4,983
BN	6,047	4,190	5,037	3,423	7,167	4,882	5,993	9,592	10,239	10,737	7,706	5,072
AN	5,744	4,035	5,293	6,501	15,101	9,299	5,966	11,428	10,764	10,416	6,773	7,276
W	5,949	5,477	10,498	14,761	17,894	14,783	10,508	10,624	10,894	10,073	8,819	7,486
All	5,767	4,523	6,266	7,164	9,741	8,000	7,044	9,183	9,538	9,334	7,938	6,161
55 no SJIE												
C	4,923	4,329	3,551	3,250	3,429	3,976	4,703	6,134	6,583	5,258	6,295	4,950
D	5,183	4,151	4,100	3,319	3,554	4,656	7,194	8,444	8,910	7,248	7,709	5,059
BN	5,738	4,142	4,633	3,946	6,834	5,022	7,158	9,756	10,361	10,494	8,306	5,043
AN	5,897	3,905	4,565	6,297	13,835	9,071	6,270	12,060	11,055	11,320	7,006	7,452
W	6,123	5,387	9,951	14,004	17,530	14,662	10,478	10,705	11,129	10,468	8,851	7,767
All	5,619	4,523	5,943	7,027	9,645	8,183	7,668	9,446	9,745	9,019	7,856	6,149
65 no SJIE												
C	4,314	4,362	3,895	4,696	3,661	4,636	5,060	6,692	6,646	5,124	5,642	4,712
D	4,718	4,474	4,262	3,770	4,883	6,080	6,312	8,081	8,447	6,415	6,352	4,671
BN	5,295	4,046	4,236	4,517	7,890	6,529	8,007	9,078	9,492	8,643	7,829	4,948
AN	5,169	4,249	4,163	6,794	13,723	8,675	8,072	12,233	11,681	10,055	7,761	5,630
W	5,741	5,590	9,742	14,180	17,440	14,643	11,440	10,947	11,740	10,412	8,778	7,104
All	5,128	4,685	5,846	7,584	10,139	8,842	8,202	9,420	9,746	8,286	7,427	5,584

H1a5.2.29 Sacramento River above Bend Bridge (SWRCB Sac Abv Bend Bridge)

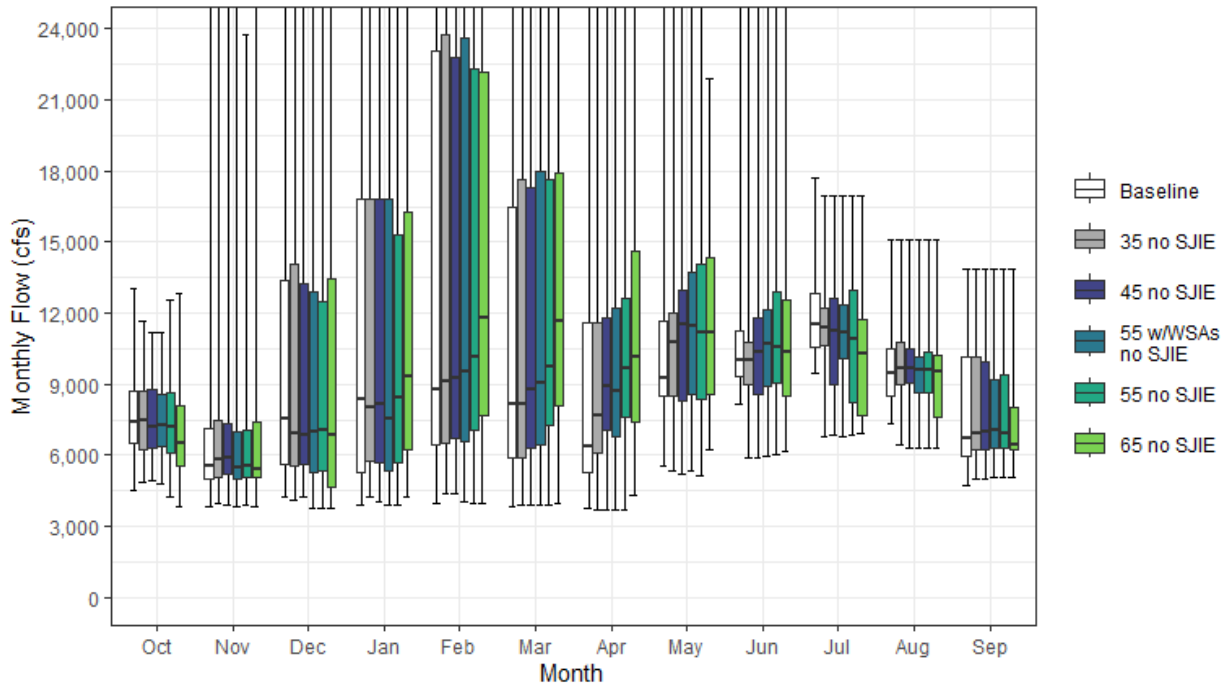

Figure H1a5-29. Sacramento River Streamflow above Bend Bridge Monthly Boxplot (cfs)

Table H1a5-57. 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 SJIE													
0%	4,888	3,940	4,114	4,232	4,342	3,915	3,690	5,339	5,902	6,807	6,423	4,985	3,951
10%	5,865	4,808	4,679	4,612	5,502	5,049	5,211	6,406	6,906	7,665	8,227	6,001	4,855
25%	6,212	5,066	5,515	5,751	6,508	5,872	6,103	8,473	8,951	10,657	8,964	6,210	5,687
50%	7,442	5,792	6,938	8,046	9,087	8,169	7,658	10,748	10,000	11,360	9,659	6,947	7,157
75%	8,695	7,442	14,036	16,801	23,745	17,657	11,605	11,970	10,786	12,229	10,759	10,132	9,716
90%	9,744	9,675	26,297	33,909	43,531	29,989	18,218	14,743	13,578	14,267	12,628	11,475	12,394
100%	11,650	35,013	42,071	74,705	83,601	73,277	44,397	26,534	30,912	16,959	15,072	13,888	17,709
Mean	7,590	6,859	11,471	14,264	17,661	14,071	10,174	10,749	10,267	11,363	9,998	8,096	7,985
45 no SJIE													
0%	4,895	3,927	4,232	4,025	4,343	3,916	3,702	5,188	5,891	6,820	6,278	4,998	4,090
10%	5,565	4,850	4,813	4,608	5,662	5,465	5,311	6,681	7,049	7,638	8,207	6,014	4,775
25%	6,292	5,206	5,592	5,666	6,691	6,274	7,041	8,275	8,560	8,973	9,051	6,215	5,670
50%	7,182	5,907	6,854	8,180	9,271	8,801	8,886	11,511	10,357	11,226	9,685	6,972	7,077
75%	8,801	7,347	13,260	16,801	22,768	17,280	11,822	12,954	11,811	12,640	10,508	9,912	9,732
90%	9,592	8,998	25,242	33,909	43,532	29,978	18,218	14,737	13,154	13,886	12,401	11,445	12,571
100%	11,201	33,056	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,481	6,833	11,171	14,173	17,565	14,161	10,762	11,006	10,523	10,988	9,963	8,020	7,989
55 w/WSAs no SJIE													
0%	4,795	3,854	3,752	3,879	4,001	3,928	3,691	5,340	5,980	6,799	6,309	5,086	3,899
10%	5,621	4,792	4,515	4,553	5,426	5,288	5,036	6,684	7,404	7,667	7,923	6,149	4,754
25%	6,350	4,985	5,301	5,343	6,573	6,465	6,775	8,581	8,928	10,078	8,649	6,280	5,701
50%	7,239	5,462	7,005	7,515	9,499	9,082	8,725	11,430	10,686	11,206	9,607	7,070	7,223
75%	8,591	6,991	12,922	16,801	23,596	18,004	12,240	13,696	12,146	12,371	10,175	9,198	9,791
90%	9,688	8,446	24,865	33,807	43,548	29,978	18,218	15,307	13,674	13,774	12,268	11,061	12,659
100%	11,200	33,443	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,532	6,503	10,959	13,987	17,703	14,421	10,836	11,226	10,763	11,062	9,699	7,882	7,984
55 no SJIE													
0%	4,265	3,862	3,743	3,868	3,990	3,919	3,722	5,139	6,001	6,862	6,318	5,037	3,888
10%	5,473	4,725	4,451	4,749	5,268	5,552	5,523	6,877	7,572	7,538	7,433	6,024	4,722
25%	6,123	5,071	5,320	5,689	7,029	7,275	7,638	8,359	9,056	8,218	8,627	6,306	5,728
50%	7,188	5,536	7,026	8,436	10,139	9,701	9,680	11,211	10,546	10,913	9,615	6,922	6,845
75%	8,656	7,041	12,468	15,292	22,334	17,657	12,631	14,075	12,868	12,998	10,360	9,359	9,753
90%	9,476	8,701	23,411	31,481	43,532	29,914	17,881	15,555	14,497	14,411	12,351	10,920	12,617
100%	12,559	23,765	42,071	74,705	83,601	73,277	44,397	25,797	30,912	16,959	15,072	13,888	17,709
Mean	7,386	6,502	10,641	13,851	17,607	14,600	11,474	11,482	10,975	10,777	9,634	7,884	7,997
65 no SJIE													
0%	3,825	3,830	3,741	4,229	3,991	3,935	4,323	6,200	6,139	6,937	6,273	5,035	4,042
10%	4,606	4,702	4,245	4,850	4,772	5,900	6,172	7,246	7,593	7,462	6,517	5,663	4,801
25%	5,560	5,036	4,661	6,199	7,641	8,117	7,424	8,561	8,530	7,705	7,594	6,214	5,573
50%	6,480	5,439	6,852	9,357	11,796	11,676	10,160	11,200	10,380	10,252	9,498	6,440	7,136
75%	8,077	7,381	13,447	16,284	22,140	17,897	14,617	14,334	12,539	11,712	10,239	8,010	10,040
90%	9,471	9,255	21,420	32,946	41,124	26,209	19,982	16,225	14,831	13,380	11,398	10,395	12,458
100%	12,838	26,213	42,072	74,705	77,909	73,277	44,399	21,902	29,721	16,980	15,098	13,877	17,712
Mean	6,905	6,660	10,544	14,398	18,093	15,249	12,029	11,464	10,988	10,081	9,229	7,359	8,006

Table H1a5-58. 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 SJIE												
C	6,647	5,437	6,318	6,177	6,165	5,756	5,180	6,709	7,259	8,171	8,988	5,829
D	7,354	6,510	7,751	6,311	8,421	8,226	7,324	10,063	10,558	10,864	9,438	6,527
BN	7,819	6,054	7,782	9,156	13,824	8,704	8,220	10,178	10,478	12,353	9,346	6,653
AN	7,800	6,921	9,660	16,432	23,899	17,832	9,945	12,608	10,221	12,754	9,268	9,427
W	8,036	8,358	20,007	26,777	30,504	24,685	16,258	13,025	11,543	12,248	11,653	10,837
All	7,590	6,859	11,471	14,264	17,661	14,071	10,174	10,749	10,267	11,363	9,998	8,096
45 no SJIE												
C	6,521	5,315	6,006	5,707	6,548	6,386	5,477	6,748	7,238	7,786	8,850	5,658
D	7,045	6,438	7,502	6,282	8,360	8,215	8,142	9,447	9,936	9,997	9,882	6,685
BN	7,645	6,256	7,817	9,294	13,339	8,991	9,185	10,594	11,005	11,931	9,563	6,515
AN	7,652	6,408	9,866	16,169	23,593	17,265	10,290	13,747	11,344	12,398	8,965	10,026
W	8,139	8,467	19,263	26,765	30,456	24,699	16,690	13,585	12,070	12,261	11,268	10,411
All	7,481	6,833	11,171	14,173	17,565	14,161	10,762	11,006	10,523	10,988	9,963	8,020
55 w/WSAs no SJIE												
C	6,759	4,888	5,365	5,362	6,250	5,776	4,840	6,477	7,114	7,805	8,329	6,512
D	7,125	6,015	7,372	6,149	8,447	8,534	7,806	9,084	9,541	10,633	9,831	6,584
BN	7,765	5,767	7,818	9,013	13,372	9,901	9,401	11,009	11,152	11,797	9,245	6,488
AN	7,577	5,957	9,923	15,929	24,754	17,751	10,665	14,350	12,020	12,123	8,796	9,304
W	8,077	8,406	18,974	26,706	30,520	24,879	17,234	14,217	12,857	12,225	10,981	9,880
All	7,532	6,503	10,959	13,987	17,703	14,421	10,836	11,226	10,763	11,062	9,699	7,882
55 no SJIE												
C	6,240	5,301	5,647	5,553	6,809	6,329	5,562	6,882	7,318	7,398	7,449	5,784
D	6,780	5,942	7,204	6,084	9,063	9,106	9,002	9,371	9,752	8,809	9,509	6,673
BN	7,480	5,720	7,420	9,527	13,045	10,038	10,566	11,179	11,289	11,593	9,829	6,463
AN	7,729	5,826	9,207	15,728	23,508	17,526	10,990	14,945	12,312	13,010	9,025	9,476
W	8,245	8,318	18,437	25,961	30,162	24,760	17,209	14,292	13,088	12,612	11,012	10,156
All	7,386	6,502	10,641	13,851	17,607	14,600	11,474	11,482	10,975	10,777	9,634	7,884
65 no SJIE												
C	5,650	5,331	5,983	6,974	7,036	6,980	5,929	7,442	7,397	7,297	6,857	5,579
D	6,324	6,258	7,362	6,527	10,369	10,508	8,173	9,033	9,283	8,029	8,157	6,346
BN	7,052	5,626	7,030	10,087	14,082	11,521	11,429	10,540	10,469	9,807	9,403	6,397
AN	7,017	6,166	8,810	16,216	23,397	17,136	12,802	15,087	12,950	11,780	9,777	7,729
W	7,862	8,517	18,230	26,134	30,072	24,741	18,182	14,526	13,697	12,565	10,949	9,513
All	6,905	6,660	10,544	14,398	18,093	15,249	12,029	11,464	10,988	10,081	9,229	7,359

H1a5.2.30Sacramento River below Wilkins Slough (SWRCB Sac Blw Wilkins Slough)

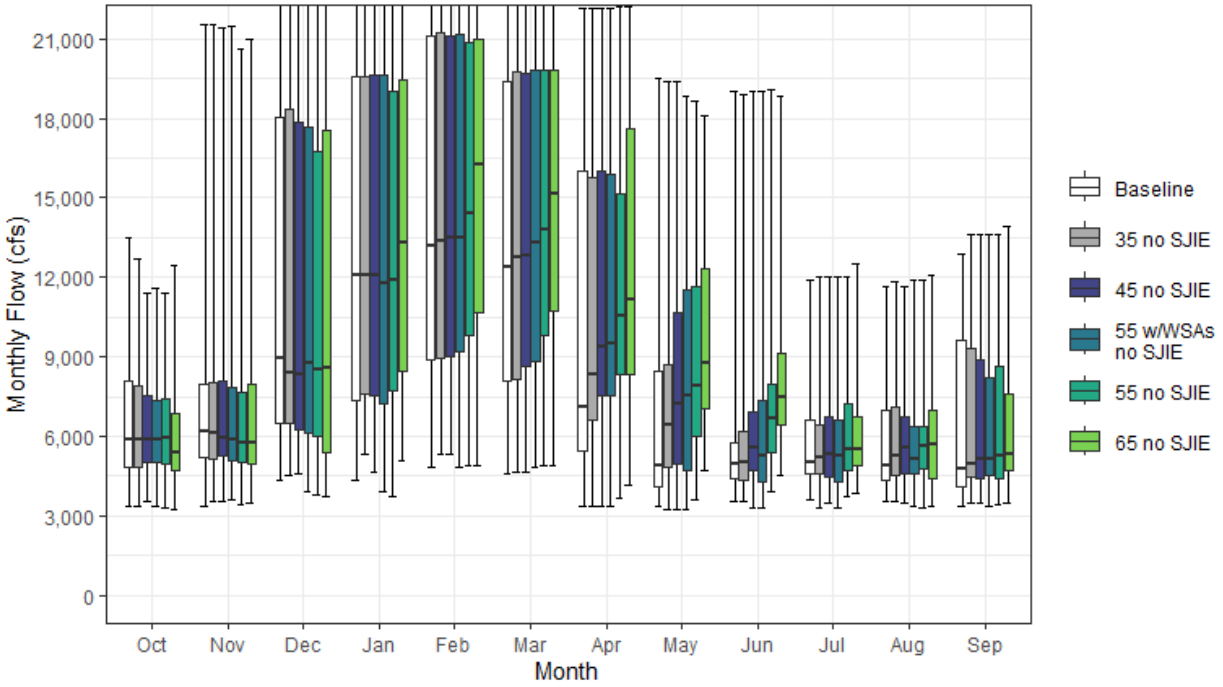

Figure H1a5-30. Sacramento River Streamflow below Wilkins Slough Monthly Boxplot (cfs)

Table H1a5-59. 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 SJIE													
0%	3,341	3,569	4,541	5,295	5,327	4,631	3,347	3,266	3,514	3,292	3,518	3,460	3,400
10%	4,226	4,440	5,368	5,892	6,923	6,806	5,392	3,736	3,965	3,899	4,070	4,065	4,280
25%	4,845	5,139	6,488	7,577	8,954	8,152	6,642	4,852	4,314	4,597	4,534	4,463	4,950
50%	5,898	6,099	8,406	12,086	13,368	12,739	8,317	6,437	5,011	5,174	5,291	4,963	6,389
75%	7,927	8,032	18,322	19,586	21,225	19,758	15,789	8,727	6,176	6,402	7,098	9,324	8,053
90%	9,395	11,505	21,143	21,894	22,510	21,585	19,736	13,776	7,727	8,234	9,025	10,375	9,272
100%	12,683	21,544	22,568	23,658	24,652	23,824	22,181	19,414	18,894	11,989	11,834	13,602	11,965
Mean	6,497	7,251	11,424	13,446	14,765	13,768	10,590	7,644	5,749	5,685	6,014	6,720	6,595
45 no SJIE													
0%	3,526	3,558	4,588	4,672	5,342	4,621	3,347	3,266	3,326	3,486	3,466	3,460	3,403
10%	4,295	4,586	5,271	5,852	7,609	7,444	5,533	3,947	4,138	3,893	4,145	4,018	4,311
25%	4,993	5,272	6,222	7,535	9,021	8,666	7,529	4,944	4,686	4,487	4,585	4,432	5,043
50%	5,901	5,937	8,354	12,100	13,483	12,826	9,376	7,249	5,600	5,332	5,596	5,126	6,462
75%	7,529	8,084	17,830	19,603	21,115	19,707	16,006	10,673	6,932	6,760	6,711	8,897	8,284
90%	9,457	11,190	21,137	21,894	22,511	21,585	19,776	13,575	8,218	7,660	8,754	10,427	9,583
100%	11,410	21,405	22,568	23,608	24,651	23,824	22,180	19,397	19,037	12,003	11,670	13,639	11,962
Mean	6,441	7,194	11,330	13,374	14,841	13,958	11,191	8,163	6,165	5,705	5,950	6,640	6,679
55 w/WSAs no SJIE													
0%	3,351	3,589	3,938	3,940	4,803	4,827	3,347	3,266	3,316	3,309	3,377	3,386	3,184
10%	4,521	4,418	4,930	5,651	7,313	7,054	4,909	3,688	3,852	3,904	3,971	4,223	4,154
25%	4,989	5,083	6,103	7,222	9,174	8,846	7,538	4,706	4,296	4,304	4,565	4,510	4,881
50%	5,872	5,903	8,737	11,778	13,485	13,331	9,484	7,535	5,277	5,244	5,158	5,139	6,418
75%	7,327	7,828	17,677	19,608	21,179	19,839	15,906	11,516	7,365	6,586	6,382	8,204	8,329
90%	9,527	9,726	21,089	21,824	22,462	21,585	19,737	13,890	8,964	7,244	7,746	10,059	9,477
100%	11,563	21,458	22,568	23,608	24,651	23,874	22,181	18,849	19,005	12,046	11,910	13,634	11,987
Mean	6,438	6,946	11,183	13,222	14,811	14,035	11,216	8,283	6,304	5,524	5,677	6,495	6,630
55 no SJIE													
0%	3,309	3,437	3,806	3,706	4,918	4,914	3,636	3,601	3,881	3,736	3,309	3,422	3,263
10%	4,472	4,222	4,676	5,827	7,342	7,642	6,031	4,838	4,849	4,278	4,094	4,057	4,576
25%	4,948	5,043	5,994	7,738	9,813	9,826	8,303	6,001	5,389	4,722	4,765	4,415	5,245
50%	5,944	5,778	8,523	11,899	14,388	13,811	10,556	7,903	6,696	5,532	5,625	5,274	6,564
75%	7,437	7,668	16,748	19,039	20,879	19,815	15,154	11,646	7,943	7,222	6,364	8,658	8,433
90%	9,559	10,627	21,079	21,835	22,476	21,467	19,749	13,853	9,240	8,335	7,626	10,052	9,588
100%	11,381	20,608	22,568	23,658	24,651	23,824	22,230	18,644	19,071	12,046	11,910	13,634	11,971
Mean	6,416	6,863	11,112	13,328	15,059	14,397	11,884	9,072	7,128	6,019	5,837	6,554	6,843
65 no SJIE													
0%	3,259	3,461	3,703	5,092	4,920	4,921	4,143	4,688	4,555	3,844	3,365	3,462	3,446
10%	4,252	4,288	4,561	6,199	6,604	7,707	6,724	6,089	5,665	4,326	3,971	4,225	4,523
25%	4,682	4,962	5,390	8,445	10,666	10,712	8,312	7,027	6,417	4,880	4,416	4,734	5,362
50%	5,364	5,780	8,553	13,314	16,281	15,149	11,155	8,749	7,455	5,500	5,696	5,316	6,883
75%	6,861	7,934	17,535	19,444	21,001	19,789	17,635	12,299	9,149	6,730	6,957	7,622	8,749
90%	9,755	10,658	20,483	21,795	22,364	21,463	19,909	14,975	11,675	8,014	7,783	10,131	9,646
100%	12,468	20,976	22,622	23,608	24,596	23,824	22,214	18,113	18,859	12,531	12,068	13,925	12,027
Mean	6,073	6,941	11,021	13,787	15,556	15,122	12,475	9,829	8,035	5,980	5,893	6,430	7,051

Table H1a5-60. 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 SJIE												
C	5,084	5,120	7,380	7,991	8,499	7,546	5,006	4,156	4,480	4,294	5,770	4,053
D	6,127	6,803	9,189	8,311	11,317	10,709	7,522	5,748	5,398	4,609	4,583	4,711
BN	6,729	6,414	8,243	12,782	14,194	12,429	9,861	6,390	5,157	5,536	4,656	4,931
AN	6,663	7,577	11,039	17,516	18,633	18,351	12,443	9,009	5,412	6,923	5,730	8,489
W	7,308	9,116	17,390	18,913	19,450	18,343	15,538	11,143	7,192	6,815	8,166	10,042
All	6,497	7,251	11,424	13,446	14,765	13,768	10,590	7,644	5,749	5,685	6,014	6,720
45 no SJIE												
C	5,061	5,066	6,968	7,539	8,916	8,198	5,380	4,573	4,533	4,279	5,861	3,977
D	5,913	6,647	9,187	8,278	11,301	10,984	8,378	5,771	5,304	4,706	4,739	4,761
BN	6,578	6,535	8,455	12,933	14,216	12,637	10,763	6,945	5,855	5,642	4,796	4,725
AN	6,529	6,973	10,823	17,438	18,623	18,106	12,821	10,214	6,515	6,606	5,429	9,011
W	7,441	9,236	17,250	18,878	19,480	18,389	15,972	11,783	7,722	6,877	7,825	9,702
All	6,441	7,194	11,330	13,374	14,841	13,958	11,191	8,163	6,165	5,705	5,950	6,640
55 w/WSAs no SJIE												
C	5,193	4,756	6,423	7,177	8,608	7,598	4,692	3,900	4,260	4,074	4,842	4,269
D	5,905	6,393	9,149	8,156	11,360	11,015	8,033	5,184	4,747	4,668	4,754	4,793
BN	6,679	6,161	8,280	12,650	14,055	13,174	10,962	7,268	5,790	5,115	4,711	4,781
AN	6,426	6,617	11,048	17,042	18,784	18,169	13,190	10,847	7,161	6,342	5,294	8,399
W	7,346	9,148	17,108	18,994	19,539	18,573	16,402	12,509	8,519	6,858	7,565	9,256
All	6,438	6,946	11,183	13,222	14,811	14,035	11,216	8,283	6,304	5,524	5,677	6,495
55 no SJIE												
C	5,044	4,886	6,503	7,376	9,134	8,179	5,679	5,285	5,279	4,416	4,765	4,198
D	5,686	6,153	8,937	8,228	11,894	11,802	9,288	6,664	6,208	4,878	5,126	4,718
BN	6,456	6,008	8,355	13,041	14,232	13,532	11,915	8,107	6,846	6,141	5,046	4,658
AN	6,674	6,389	10,812	17,207	18,746	18,293	13,432	11,586	7,719	7,070	5,448	8,603
W	7,556	9,169	17,031	18,873	19,588	18,606	16,457	12,464	8,731	7,212	7,588	9,536
All	6,416	6,863	11,112	13,328	15,059	14,397	11,884	9,072	7,128	6,019	5,837	6,554
65 no SJIE												
C	4,711	4,909	6,627	8,723	9,375	8,911	6,193	6,213	5,722	4,571	4,517	4,083
D	5,378	6,379	8,950	8,613	12,693	12,970	9,071	7,496	6,931	4,923	4,753	4,946
BN	6,192	5,916	7,927	13,222	14,831	14,633	12,805	8,794	7,786	5,621	4,929	5,097
AN	5,914	6,739	10,629	17,743	19,236	18,702	14,751	12,082	9,093	6,373	6,326	7,586
W	7,299	9,168	17,000	19,059	19,939	18,889	17,202	13,222	9,812	7,577	7,901	9,152
All	6,073	6,941	11,021	13,787	15,556	15,122	12,475	9,829	8,035	5,980	5,893	6,430

H1a5.2.31 Sacramento River at Knights Landing (SWRCB Sac at Knights Landing)

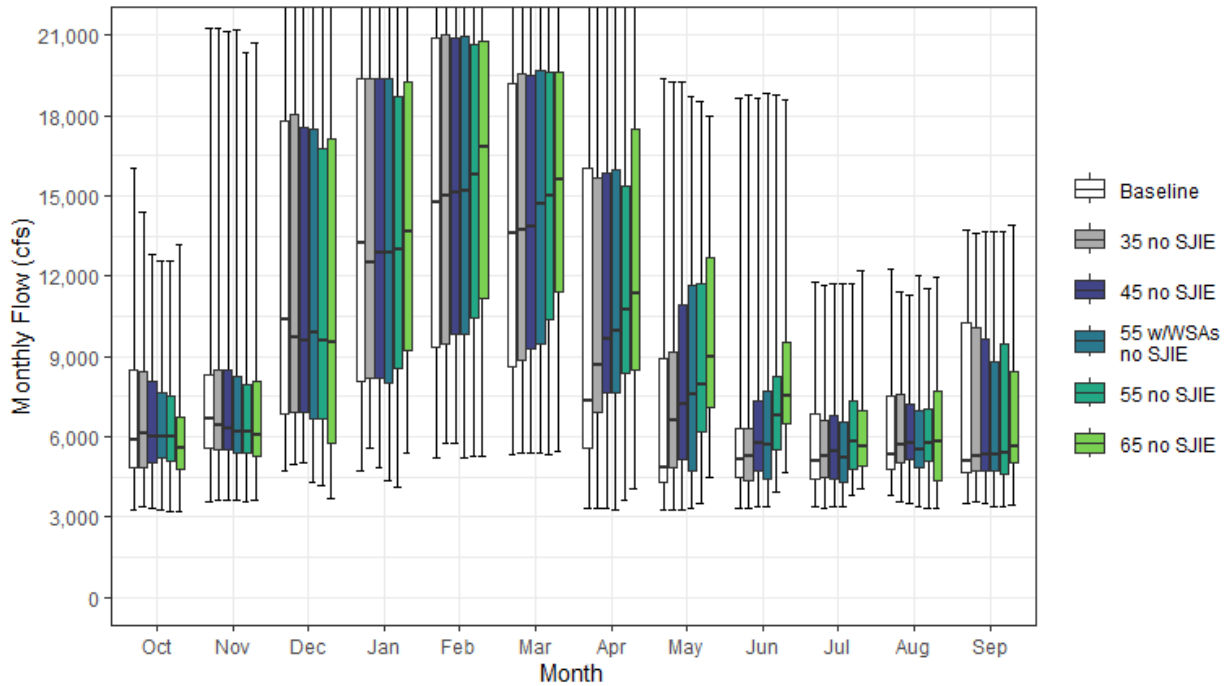

Figure H1a5-31. Sacramento River Streamflow at Knights Landing Monthly Boxplot (cfs)

Table H1a5-61. 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 SJIE													
0%	3,384	3,617	4,941	5,591	5,772	5,376	3,342	3,294	3,304	3,348	3,595	3,576	3,529
10%	4,147	4,636	5,870	6,622	7,519	7,146	5,370	3,732	3,752	3,788	4,583	4,257	4,470
25%	4,824	5,501	6,924	8,206	9,448	8,839	6,902	4,841	4,363	4,467	5,012	4,734	5,159
50%	6,145	6,447	9,727	12,527	15,019	13,742	8,664	6,640	5,280	5,256	5,725	5,253	6,521
75%	8,431	8,525	18,065	19,375	21,022	19,579	15,667	9,142	6,323	6,585	7,577	10,050	8,350
90%	9,967	12,424	20,884	21,665	22,287	21,376	19,608	13,667	7,836	8,287	9,760	11,151	9,428
100%	14,391	21,289	22,300	23,406	24,394	23,579	22,041	19,291	18,765	11,689	11,439	13,620	11,937
Mean	6,742	7,549	11,922	13,914	15,189	14,106	10,728	7,681	5,872	5,717	6,473	7,172	6,807
45 no SJIE													
0%	3,334	3,609	5,048	4,875	5,776	5,399	3,342	3,294	3,384	3,375	3,508	3,529	3,510
10%	4,191	4,552	5,789	6,553	8,040	7,900	5,516	3,928	4,189	3,887	4,681	4,037	4,531
25%	5,018	5,539	6,922	8,179	9,805	9,301	7,631	5,157	4,710	4,415	5,143	4,724	5,280
50%	6,004	6,278	9,581	12,882	15,111	13,860	9,673	7,204	5,738	5,482	5,773	5,321	6,555
75%	8,097	8,490	17,589	19,388	20,914	19,529	15,882	10,948	7,317	6,809	7,193	9,642	8,477
90%	10,048	11,832	20,861	21,665	22,287	21,376	19,648	13,482	8,392	7,867	9,445	11,230	9,683
100%	12,797	21,153	22,300	23,357	24,392	23,579	22,040	19,274	18,682	11,703	11,277	13,657	11,931
Mean	6,683	7,479	11,818	13,812	15,263	14,289	11,330	8,215	6,320	5,770	6,406	7,074	6,891
55 w/WSAs no SJIE													
0%	3,246	3,602	4,316	4,372	5,206	5,418	3,274	3,304	3,378	3,365	3,407	3,358	3,310
10%	4,605	4,503	5,404	6,466	7,870	7,441	4,877	3,605	3,731	3,789	4,056	4,422	4,417
25%	5,187	5,398	6,652	7,982	9,852	9,449	7,648	4,744	4,441	4,272	4,852	4,738	5,150
50%	6,011	6,178	9,883	12,889	15,197	14,685	9,935	7,556	5,683	5,242	5,509	5,347	6,576
75%	7,623	8,245	17,485	19,374	20,977	19,659	16,008	11,679	7,702	6,572	6,995	8,799	8,595
90%	10,148	10,242	20,822	21,605	22,239	21,376	19,609	13,804	9,366	7,422	8,541	10,896	9,656
100%	12,563	21,205	22,299	23,357	24,392	23,628	22,041	18,728	18,855	11,745	12,035	13,652	11,955
Mean	6,675	7,247	11,689	13,697	15,229	14,357	11,357	8,340	6,464	5,569	6,095	6,930	6,841
55 no SJIE													
0%	3,226	3,582	4,176	4,126	5,278	5,307	3,641	3,480	3,926	3,823	3,345	3,362	3,374
10%	4,409	4,473	5,135	6,605	7,923	8,081	6,002	4,848	4,999	4,343	4,096	4,211	4,732
25%	5,088	5,375	6,652	8,535	10,415	10,396	8,372	6,159	5,537	4,775	5,106	4,583	5,471
50%	6,027	6,182	9,576	12,989	15,789	15,003	10,741	7,933	6,771	5,825	5,756	5,421	6,690
75%	7,529	7,969	16,746	18,732	20,682	19,635	15,360	11,700	8,249	7,324	7,030	9,444	8,638
90%	10,214	11,028	20,763	21,583	22,252	21,260	19,621	13,708	9,842	8,452	8,435	10,842	9,761
100%	12,564	20,331	22,300	23,406	24,392	23,579	22,089	18,525	18,807	11,745	11,514	13,652	11,950
Mean	6,654	7,160	11,575	13,764	15,435	14,695	12,020	9,106	7,267	6,112	6,165	6,957	7,038
65 no SJIE													
0%	3,230	3,611	3,694	5,397	5,279	5,480	4,065	4,508	4,636	4,035	3,343	3,464	3,622
10%	4,335	4,305	4,907	6,903	7,100	8,079	6,723	6,042	5,687	4,333	4,007	4,195	4,707
25%	4,800	5,260	5,740	9,249	11,174	11,419	8,485	7,088	6,470	4,884	4,374	5,023	5,621
50%	5,600	6,087	9,538	13,690	16,846	15,594	11,331	8,979	7,545	5,618	5,846	5,636	7,020
75%	6,737	8,067	17,144	19,237	20,802	19,610	17,511	12,694	9,503	6,980	7,697	8,465	8,915
90%	10,303	11,010	20,209	21,523	22,143	21,249	19,769	15,326	11,770	8,234	8,636	10,902	9,790
100%	13,153	20,731	22,324	23,357	24,338	23,579	22,074	17,997	18,596	12,225	11,948	13,932	12,009
Mean	6,297	7,201	11,455	14,155	15,893	15,314	12,592	9,942	8,197	6,131	6,238	6,839	7,238

Table H1a5-62. 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 SJIE												
C	5,156	5,352	7,995	8,756	9,553	8,149	4,983	4,115	4,394	4,272	5,762	4,045
D	6,287	7,070	9,994	9,101	11,996	11,288	7,642	5,696	5,323	4,468	4,972	5,090
BN	7,000	6,735	8,808	13,498	14,639	13,011	10,075	6,372	5,199	5,395	5,159	5,264
AN	6,782	7,871	11,723	17,699	18,840	18,322	12,665	9,274	5,776	7,139	6,325	9,215
W	7,743	9,457	17,484	18,943	19,424	18,356	15,695	11,231	7,528	7,038	8,844	10,758
All	6,742	7,549	11,922	13,914	15,189	14,106	10,728	7,681	5,872	5,717	6,473	7,172
45 no SJIE												
C	5,088	5,285	7,564	8,256	9,958	8,789	5,351	4,505	4,508	4,245	5,800	3,959
D	6,086	6,911	9,997	9,067	11,980	11,558	8,508	5,756	5,280	4,667	5,049	5,047
BN	6,847	6,834	9,039	13,514	14,662	13,215	10,988	6,982	5,910	5,562	5,267	5,062
AN	6,729	7,273	11,528	17,623	18,831	18,082	13,036	10,454	6,877	6,828	6,177	9,741
W	7,848	9,557	17,297	18,919	19,454	18,387	16,121	11,881	8,084	7,102	8,537	10,428
All	6,683	7,479	11,818	13,812	15,263	14,289	11,330	8,215	6,320	5,770	6,406	7,074
55 w/WSAs no SJIE												
C	5,224	5,028	7,046	7,943	9,667	8,206	4,680	3,879	4,243	4,071	4,736	4,157
D	6,078	6,693	9,973	8,945	12,038	11,589	8,161	5,175	4,790	4,562	4,925	5,136
BN	6,908	6,447	8,861	13,360	14,502	13,645	11,188	7,285	5,787	4,978	5,209	5,143
AN	6,564	6,874	11,719	17,335	18,990	18,235	13,404	11,077	7,539	6,539	6,032	9,098
W	7,783	9,492	17,204	19,010	19,491	18,569	16,549	12,613	8,874	7,092	8,263	9,988
All	6,675	7,247	11,689	13,697	15,229	14,357	11,357	8,340	6,464	5,569	6,095	6,930
55 no SJIE												
C	5,061	5,079	7,013	8,122	9,968	8,772	5,646	5,196	5,232	4,363	4,737	4,131
D	5,862	6,433	9,712	9,019	12,559	12,329	9,388	6,689	6,220	4,947	5,119	4,967
BN	6,707	6,337	8,911	13,586	14,669	13,999	12,166	8,037	6,839	6,093	5,322	4,998
AN	6,855	6,750	11,461	17,413	18,950	18,263	13,644	11,715	8,034	7,284	6,145	9,267
W	7,970	9,488	17,106	18,906	19,538	18,601	16,609	12,597	9,084	7,443	8,237	10,239
All	6,654	7,160	11,575	13,764	15,435	14,695	12,020	9,106	7,267	6,112	6,165	6,957
65 no SJIE												
C	4,770	5,082	7,049	9,284	10,077	9,291	6,148	6,128	5,677	4,572	4,489	4,042
D	5,565	6,627	9,678	9,365	13,323	13,323	9,176	7,575	7,015	5,051	4,807	5,142
BN	6,390	6,242	8,436	13,758	15,247	14,997	13,068	8,827	7,841	5,650	4,979	5,362
AN	6,069	7,085	11,294	17,852	19,413	18,659	14,914	12,304	9,466	6,624	7,097	8,347
W	7,681	9,405	17,085	19,039	19,881	18,849	17,304	13,474	10,125	7,861	8,674	9,907
All	6,297	7,201	11,455	14,155	15,893	15,314	12,592	9,942	8,197	6,131	6,238	6,839

H1a5.2.32Sacramento River at Freeport (SWRCB Sac at Freeport)

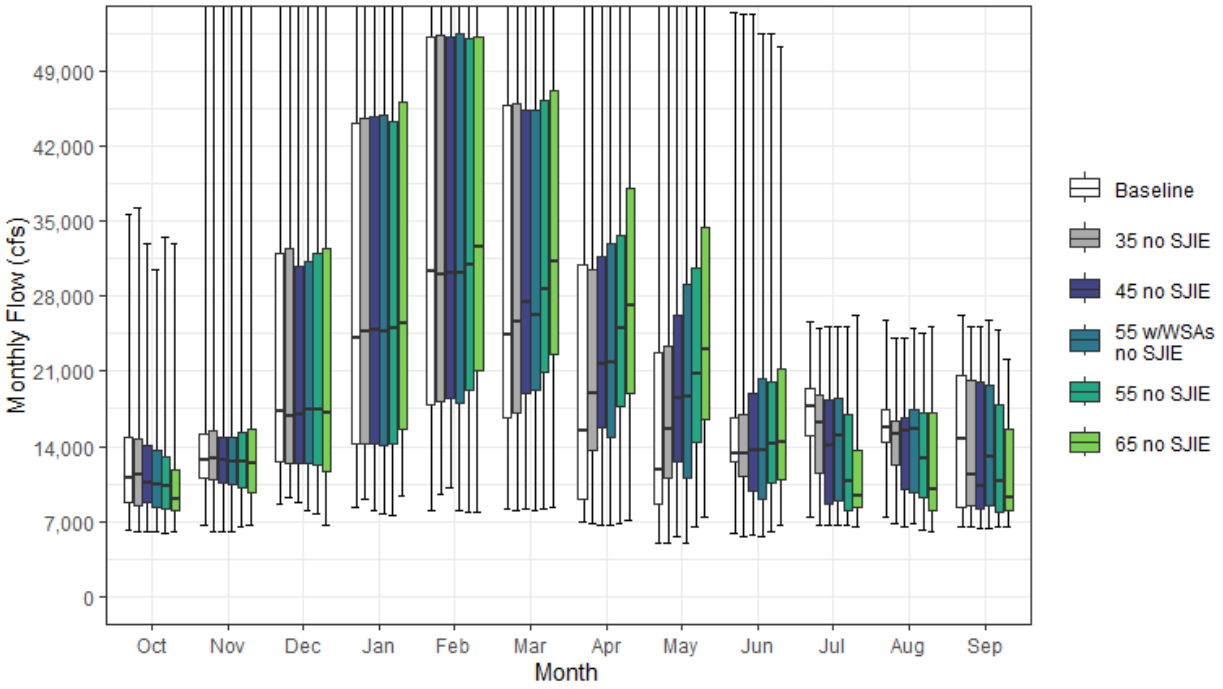

Figure H1a5-32. Sacramento River Streamflow at Freeport Monthly Boxplot (cfs)

Table H1a5-63. 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 SJIE													
0%	6,013	6,018	9,186	9,095	9,593	8,005	6,839	5,007	5,587	6,585	6,840	6,421	5,846
10%	6,721	8,379	11,220	11,827	12,854	12,564	10,496	8,462	8,728	7,580	9,645	6,712	8,120
25%	8,470	10,949	12,467	14,234	18,138	17,111	13,675	10,968	11,264	11,478	12,206	8,470	10,341
50%	11,335	12,798	16,750	24,775	30,007	25,590	18,873	15,666	13,305	16,163	15,130	11,379	13,139
75%	14,676	15,520	32,532	44,616	52,318	46,035	30,516	23,303	16,893	18,776	16,371	20,139	19,875
90%	16,621	22,513	53,318	60,814	65,632	56,614	50,760	40,057	25,547	20,291	18,720	22,550	24,083
100%	36,297	57,045	72,484	75,589	76,969	74,297	70,671	55,820	54,388	25,086	24,062	25,093	32,198
Mean	11,882	14,737	25,036	30,734	35,459	31,447	24,123	19,636	15,999	15,089	14,618	14,092	15,217
45 no SJIE													
0%	5,959	5,956	8,716	8,032	10,093	8,115	6,584	5,497	5,757	6,569	6,421	6,382	5,867
10%	7,087	7,643	10,845	11,524	13,484	14,198	12,057	8,386	8,593	7,219	9,150	6,655	8,354
25%	8,716	10,540	12,369	14,291	18,524	18,994	15,725	12,623	9,805	8,620	9,911	8,158	10,304
50%	10,542	12,774	17,037	24,871	30,120	27,476	21,638	18,436	13,658	14,012	15,385	10,348	13,510
75%	14,031	14,886	30,856	44,739	52,183	45,418	31,764	26,307	18,874	18,372	16,689	20,055	20,228
90%	16,281	21,576	53,284	60,809	65,139	56,648	50,781	40,535	25,189	19,882	18,401	21,689	23,874
100%	32,879	57,136	72,388	75,585	76,845	74,297	70,648	55,828	54,295	25,109	24,173	25,157	32,202
Mean	11,693	14,606	24,929	30,807	35,664	32,047	25,911	21,154	16,204	13,903	14,026	13,521	15,312
55 w/WSAs no SJIE													
0%	6,053	6,057	7,998	7,696	7,932	7,929	6,697	4,950	5,637	6,671	6,745	6,383	5,543
10%	6,626	7,869	9,926	11,271	13,679	13,369	9,033	8,071	8,494	7,372	8,909	7,240	8,071
25%	8,354	10,404	12,474	14,144	18,105	19,214	14,868	11,026	9,130	8,905	9,726	8,385	9,864
50%	10,463	12,571	17,458	24,757	30,106	26,210	21,766	18,583	13,634	15,035	15,627	13,049	13,422
75%	13,553	14,806	31,241	44,915	52,499	45,419	32,946	29,048	20,380	18,533	17,467	19,707	20,388
90%	16,493	19,996	52,970	59,903	64,600	56,624	50,825	40,278	27,580	20,143	18,481	20,818	24,002
100%	30,538	57,001	72,285	75,553	76,842	74,296	70,615	55,579	52,487	25,204	25,082	25,757	32,256
Mean	11,343	14,319	24,789	30,616	35,576	31,890	25,911	21,269	16,443	14,287	14,123	13,558	15,292
55 no SJIE													
0%	5,943	6,524	7,691	7,562	7,778	8,149	6,746	6,462	6,060	6,664	6,254	6,502	5,759
10%	6,525	8,149	9,806	11,275	13,571	15,699	12,368	9,754	8,606	7,192	7,803	6,657	8,460
25%	8,159	10,127	12,308	14,261	19,289	20,847	17,768	14,415	10,519	8,012	9,266	7,859	10,481
50%	10,306	12,597	17,423	24,970	30,920	28,729	24,985	20,696	14,188	10,774	12,899	10,705	13,670
75%	13,023	15,222	31,947	44,278	52,118	46,340	33,657	30,690	19,976	16,912	17,111	17,914	20,712
90%	16,212	21,105	53,306	59,584	64,971	56,163	51,200	41,389	28,264	19,947	18,495	20,230	23,794
100%	33,482	57,169	72,341	75,574	76,623	74,296	70,599	55,559	52,502	25,208	24,516	24,919	32,188
Mean	11,227	14,573	24,918	30,887	36,061	33,090	28,152	23,191	16,839	12,565	13,139	12,779	15,488
65 no SJIE													
0%	5,963	6,586	6,598	9,431	7,780	8,363	7,094	7,449	6,705	6,533	5,980	6,540	6,306
10%	6,508	7,783	9,042	11,943	13,644	15,360	13,613	10,900	8,831	7,258	7,249	6,672	8,754
25%	7,931	9,694	11,656	15,599	21,133	22,619	18,993	16,436	10,943	8,262	7,968	8,003	10,807
50%	9,104	12,480	17,084	25,417	32,673	31,250	27,218	23,115	14,367	9,351	9,959	9,190	13,866
75%	11,876	15,625	32,410	46,201	52,164	47,243	38,024	34,457	21,191	13,649	17,163	15,622	20,610
90%	16,052	21,045	53,430	59,215	64,786	57,183	52,310	44,283	30,171	19,917	19,488	17,229	24,668
100%	32,935	56,991	72,331	75,487	76,415	74,295	70,540	55,623	51,279	26,202	25,112	22,177	31,889
Mean	10,472	14,378	24,946	31,427	36,758	34,729	30,569	25,566	17,497	11,585	12,204	11,465	15,737

Table H1a5-64. 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 SJIE												
C	9,654	10,228	14,001	14,252	15,909	14,097	9,213	7,948	8,502	8,122	9,507	6,851
D	10,880	12,829	18,340	16,079	22,290	21,493	15,105	12,402	11,314	12,577	12,640	9,125
BN	12,045	13,166	17,458	24,350	31,912	26,325	21,565	15,884	13,984	17,456	15,271	10,901
AN	11,216	15,390	22,921	40,602	47,128	42,207	25,548	21,903	15,367	18,693	16,075	21,696
W	13,970	19,276	41,478	50,366	53,120	46,939	39,739	32,644	24,964	17,706	17,797	20,576
All	11,882	14,737	25,036	30,734	35,459	31,447	24,123	19,636	15,999	15,089	14,618	14,092
45 no SJIE												
C	9,404	9,851	13,733	13,926	16,743	15,288	10,309	8,895	8,245	7,587	8,924	6,613
D	10,668	12,771	18,332	16,191	22,707	22,706	17,659	13,830	10,382	10,574	11,083	8,890
BN	11,807	12,931	17,762	24,476	31,683	27,388	24,464	18,077	14,494	14,664	14,005	9,626
AN	11,082	14,698	23,025	40,951	47,096	41,976	27,320	24,464	16,638	17,580	16,124	21,415
W	13,837	19,510	41,039	50,481	53,205	46,816	40,637	33,689	25,627	17,761	18,081	19,909
All	11,693	14,606	24,929	30,807	35,664	32,047	25,911	21,154	16,204	13,903	14,026	13,521
55 w/WSAs no SJIE												
C	9,265	9,558	13,049	13,503	16,320	14,123	8,915	7,602	7,952	7,252	8,379	7,067
D	10,177	12,336	18,430	16,126	22,584	22,308	16,367	12,171	10,010	10,011	10,682	9,514
BN	11,349	12,477	17,888	24,290	31,667	27,300	24,529	18,139	13,905	16,020	14,154	10,494
AN	10,481	14,238	23,593	40,334	46,898	41,661	28,431	25,826	17,712	17,695	16,761	19,331
W	13,647	19,512	40,563	50,487	53,319	47,393	41,840	35,390	26,790	18,714	18,635	19,617
All	11,343	14,319	24,789	30,616	35,576	31,890	25,911	21,269	16,443	14,287	14,123	13,558
55 no SJIE												
C	8,921	9,506	13,046	14,001	17,146	16,095	11,335	10,080	8,670	7,127	7,701	6,694
D	10,086	12,596	18,499	16,212	23,785	24,565	20,243	15,461	10,703	8,480	9,394	8,767
BN	11,028	12,750	17,994	25,085	32,324	28,869	28,129	20,724	14,616	11,887	12,109	9,684
AN	10,689	14,723	23,683	41,080	46,606	42,525	30,307	27,675	17,573	14,528	15,888	16,355
W	13,634	19,819	40,837	50,254	53,300	47,305	42,075	35,620	26,810	18,103	18,338	19,496
All	11,227	14,573	24,918	30,887	36,061	33,090	28,152	23,191	16,839	12,565	13,139	12,779
65 no SJIE												
C	8,146	9,202	13,136	15,438	17,740	17,426	12,696	11,623	9,434	7,312	7,427	6,690
D	9,398	12,680	18,906	16,747	25,349	27,024	21,711	17,516	11,520	8,206	8,110	8,283
BN	10,463	12,232	17,567	25,865	32,816	31,118	31,440	23,049	15,311	9,656	9,295	9,153
AN	9,711	14,629	23,199	41,671	47,022	44,342	34,445	30,386	18,054	11,675	13,339	13,614
W	12,810	19,641	41,047	50,145	53,658	48,050	44,495	38,570	27,342	17,527	19,144	16,948
All	10,472	14,378	24,946	31,427	36,758	34,729	30,569	25,566	17,497	11,585	12,204	11,465

H1a5.2.33Sacramento River at Rio Vista (SWRCB Sac at Rio Vista)

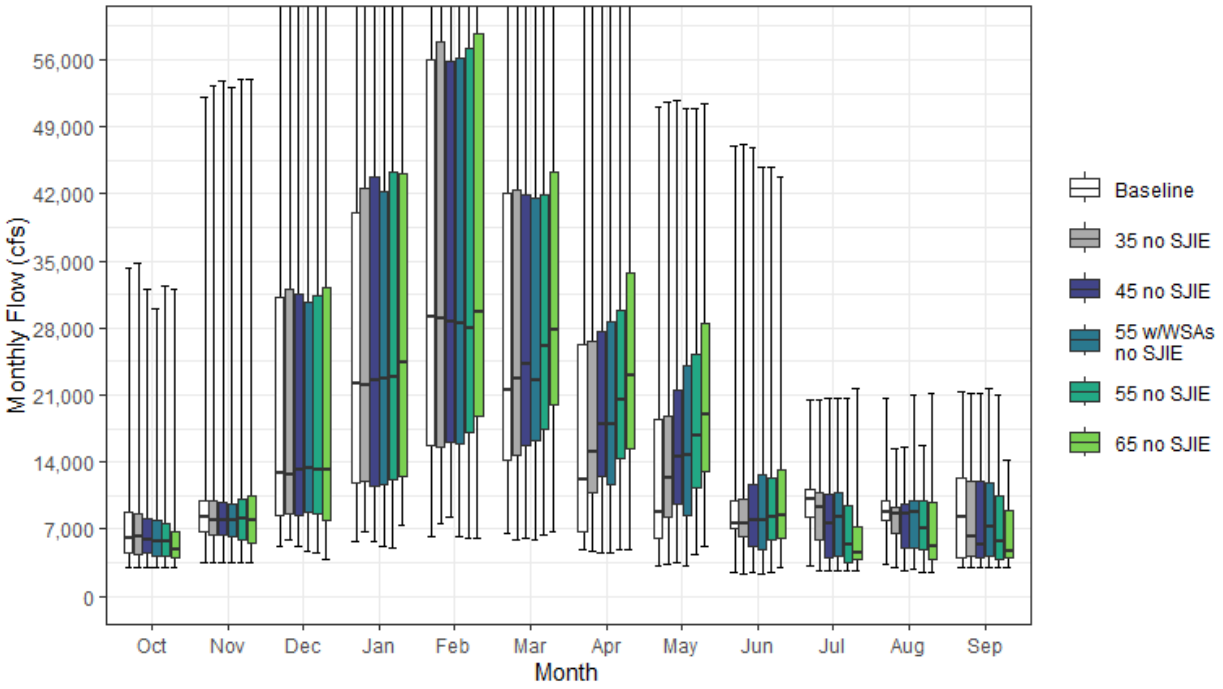

Figure H1a5-33. Sacramento River Streamflow at Rio Vista Monthly Boxplot (cfs)

Table H1a5-65. 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 SJIE													
0%	3,000	3,536	5,923	6,695	7,580	5,949	4,653	3,294	2,352	2,653	2,970	3,000	3,579
10%	3,132	4,778	7,302	9,307	10,742	10,251	7,936	6,214	4,535	3,157	4,847	3,036	5,700
25%	4,318	6,449	8,544	11,955	15,587	14,690	10,767	8,311	6,284	5,938	6,553	4,142	7,519
50%	6,300	7,914	12,761	22,029	28,999	22,655	15,132	12,347	7,653	9,351	8,538	6,152	10,041
75%	8,625	10,035	32,000	42,640	57,830	42,337	26,555	18,751	10,104	10,765	9,348	12,061	18,630
90%	9,791	16,194	59,378	80,329	101,940	70,853	46,071	34,089	20,560	11,726	10,837	13,690	25,374
100%	34,833	53,269	121,160	174,754	200,707	175,694	106,907	51,507	47,104	20,575	15,416	21,167	39,495
Mean	6,871	10,106	24,146	35,442	44,059	33,930	22,032	15,952	10,323	8,385	8,183	8,050	13,645
45 no SJIE													
0%	3,000	3,541	5,291	5,646	8,229	6,104	4,512	3,492	2,470	2,686	2,709	3,000	3,626
10%	3,392	4,421	7,020	8,810	10,995	11,521	9,429	6,149	4,406	3,043	4,591	3,011	5,858
25%	4,476	6,432	8,513	11,534	16,081	15,778	12,548	9,660	5,258	3,988	5,125	3,974	7,589
50%	5,944	7,998	13,155	22,486	28,615	24,220	17,988	14,622	7,860	7,671	8,615	5,418	10,373
75%	8,086	9,879	31,458	43,710	55,867	41,913	27,592	21,462	11,628	10,567	9,576	12,006	18,701
90%	9,559	15,705	58,221	81,510	100,002	70,969	46,181	34,498	20,246	11,591	10,632	13,102	25,442
100%	32,025	53,701	120,854	173,563	196,369	175,684	107,094	51,679	46,797	20,599	15,489	21,180	39,437
Mean	6,740	9,971	24,025	35,690	44,122	34,377	23,626	17,280	10,427	7,593	7,786	7,780	13,762
55 w/WSAs no SJIE													
0%	3,000	3,509	4,732	5,176	6,175	5,882	4,528	3,200	2,398	2,735	2,892	3,002	3,348
10%	3,087	4,318	6,489	8,718	11,175	10,789	6,963	5,637	4,381	3,106	4,552	3,358	5,602
25%	4,259	6,212	8,717	11,740	15,859	16,188	11,679	8,424	4,813	4,239	4,996	4,114	7,117
50%	5,671	7,913	13,381	22,708	28,484	22,562	17,975	14,696	7,952	8,297	8,713	7,259	10,303
75%	7,910	9,665	30,624	42,312	56,202	41,580	28,609	24,033	12,695	10,750	10,039	11,784	19,067
90%	9,768	13,712	53,422	79,351	99,293	67,913	46,668	34,301	22,395	11,722	10,754	12,451	25,900
100%	30,033	53,121	119,429	173,067	195,599	175,670	106,466	50,863	44,761	20,689	21,067	21,741	39,831
Mean	6,506	9,764	23,574	35,171	43,756	34,169	23,645	17,367	10,701	7,867	7,936	7,699	13,686
55 no SJIE													
0%	3,000	3,503	4,564	5,082	6,048	6,415	4,890	4,298	2,551	2,692	2,560	3,000	3,518
10%	3,007	4,505	6,617	8,736	11,191	12,648	9,991	7,388	4,348	3,044	3,632	3,005	6,044
25%	4,119	5,839	8,683	12,163	17,151	17,447	14,387	11,306	5,821	3,592	4,804	3,892	7,665
50%	5,777	8,019	13,118	22,820	27,966	26,026	20,500	16,727	8,338	5,411	7,126	5,687	10,751
75%	7,643	10,201	31,431	44,304	57,138	41,957	29,804	25,266	12,342	9,497	10,004	10,490	18,940
90%	9,633	14,820	55,371	78,877	100,080	69,353	48,227	35,437	22,908	11,609	10,812	12,097	25,483
100%	32,458	54,016	120,532	172,780	188,650	174,061	107,098	50,874	44,774	20,695	15,719	21,022	39,395
Mean	6,439	9,961	23,901	35,690	44,407	35,348	25,693	19,075	11,070	6,716	7,292	7,192	13,963
65 no SJIE													
0%	3,000	3,514	3,925	7,452	6,049	6,805	4,893	5,173	3,019	2,598	2,455	3,000	3,988
10%	3,008	4,491	5,941	9,545	11,236	12,385	10,670	8,282	4,607	3,123	3,353	3,001	6,286
25%	4,022	5,611	7,892	12,537	18,837	19,937	15,481	13,026	6,115	3,806	3,817	3,963	8,165
50%	4,844	7,877	13,200	24,350	29,640	27,768	23,039	18,992	8,467	4,602	5,203	4,731	11,116
75%	6,698	10,439	32,164	44,097	58,689	44,260	33,704	28,530	13,182	7,261	9,815	8,987	19,149
90%	9,408	14,662	55,790	85,148	98,288	69,750	51,523	38,155	24,490	11,556	11,634	10,024	26,615
100%	32,123	53,950	120,438	172,001	184,682	173,368	106,464	51,377	43,839	21,633	21,141	14,270	39,053
Mean	5,903	9,900	24,169	36,334	45,164	36,948	28,122	21,124	11,675	6,079	6,711	6,274	14,300

Table H1a5-66. 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 SJIE												
C	5,152	6,022	10,761	12,425	14,218	11,822	6,862	5,666	4,336	3,643	4,738	3,163
D	5,979	8,316	14,989	13,626	20,817	19,038	12,176	9,505	6,283	6,649	6,834	4,632
BN	6,840	8,329	14,742	22,211	32,763	23,551	17,985	12,495	8,115	9,883	8,563	5,833
AN	6,320	10,684	20,093	43,969	56,477	43,072	21,685	17,873	9,050	10,696	9,205	13,115
W	8,680	14,491	45,576	68,685	79,207	59,557	40,051	27,587	18,387	10,313	10,362	12,539
All	6,871	10,106	24,146	35,442	44,059	33,930	22,032	15,952	10,323	8,385	8,183	8,050
45 no SJIE												
C	4,991	5,761	10,579	12,205	14,978	12,886	7,824	6,504	4,148	3,292	4,341	3,024
D	5,836	8,109	14,939	13,759	21,340	20,145	14,400	10,745	5,663	5,316	5,864	4,514
BN	6,680	8,167	14,877	22,547	32,663	24,744	20,560	14,372	8,483	8,020	7,719	5,004
AN	6,229	10,169	20,519	44,645	56,191	42,230	23,273	20,109	9,957	9,959	9,121	13,748
W	8,578	14,643	45,054	69,040	78,803	59,236	40,903	28,529	18,690	10,340	10,542	12,084
All	6,740	9,971	24,025	35,690	44,122	34,377	23,626	17,280	10,427	7,593	7,786	7,780
55 w/WSAs no SJIE												
C	4,905	5,555	9,985	11,749	14,458	11,773	6,599	5,375	3,965	3,081	4,053	3,318
D	5,508	7,758	14,869	13,631	20,982	19,779	13,233	9,326	5,400	4,943	5,698	4,923
BN	6,367	7,855	15,003	22,080	32,308	24,806	20,510	14,422	8,093	8,943	7,767	5,569
AN	5,838	9,791	20,739	43,506	56,028	41,821	24,195	21,269	10,756	10,061	9,561	11,519
W	8,446	14,679	43,769	68,415	78,423	59,534	42,135	29,965	19,810	11,003	11,106	11,890
All	6,506	9,764	23,574	35,171	43,756	34,169	23,645	17,367	10,701	7,867	7,936	7,699
55 no SJIE												
C	4,691	5,528	10,063	12,294	15,594	13,619	8,738	7,542	4,463	2,973	3,498	3,064
D	5,457	7,987	15,147	13,826	22,499	22,114	16,695	12,227	5,907	3,963	4,921	4,472
BN	6,162	8,057	14,834	23,183	33,034	26,506	23,890	16,744	8,617	6,195	6,568	5,085
AN	5,976	10,198	20,734	44,975	55,924	43,153	25,927	22,936	11,000	7,937	9,061	9,514
W	8,453	14,884	44,709	68,407	78,435	59,122	42,383	30,179	19,960	10,573	10,806	11,793
All	6,439	9,961	23,901	35,690	44,407	35,348	25,693	19,075	11,070	6,716	7,292	7,192
65 no SJIE												
C	4,202	5,326	10,207	13,708	16,267	14,992	9,921	8,856	4,980	3,092	3,280	3,044
D	5,012	8,196	15,651	14,347	24,192	24,730	18,065	14,056	6,576	3,826	4,054	4,197
BN	5,805	7,653	14,711	23,967	33,885	28,891	27,110	18,760	9,631	4,707	4,823	4,752
AN	5,330	10,129	20,368	46,056	56,234	44,940	29,650	25,296	11,407	6,020	7,327	7,691
W	7,757	14,921	45,372	68,471	78,670	59,524	45,234	32,680	20,388	10,217	11,440	9,917
All	5,903	9,900	24,169	36,334	45,164	36,948	28,122	21,124	11,675	6,079	6,711	6,274

H1a5.2.34 Stony Creek below Black Butte Reservoir (SWRCB Black Butte)

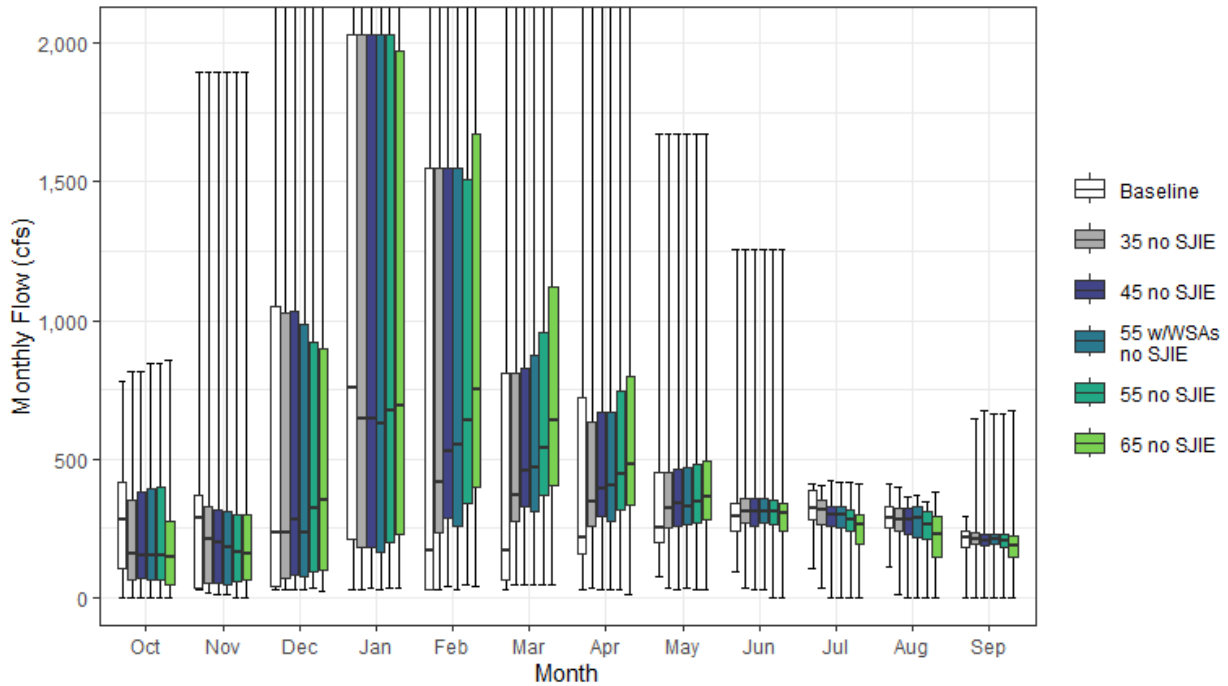

Figure H1a5-34. Stony Creek Streamflow below Black Butte Reservoir Monthly Boxplot (cfs)

Table H1a5-67. 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 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	273	259	251	266	261	240	190	190
50%	157	210	234	647	417	371	345	319	312	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	398	643	1,383
Mean	234	257	752	1,337	1,196	786	605	421	324	300	269	205	402
45 no 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	291	258	259	255	228	188	199
50%	150	195	280	647	527	455	393	339	311	297	280	206	291
75%	377	314	1,032	2,031	1,549	827	669	464	355	329	322	227	595
90%	677	448	2,098	3,825	3,202	1,621	1,279	729	388	356	336	267	727
100%	816	1,896	4,949	7,921	9,018	6,740	3,880	1,672	1,254	421	360	675	1,388
Mean	242	239	734	1,318	1,231	832	624	428	319	280	254	210	403
55 w/WSAs no 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	469	404	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	428	318	279	255	220	403
55 no 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 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	480	365	301	265	226	189	335
75%	273	300	900	1,972	1,673	1,122	797	492	340	300	291	220	574
90%	770	456	1,974	3,647	3,164	1,740	1,218	812	393	324	312	288	737
100%	857	1,896	4,949	7,618	9,018	6,740	3,577	1,672	1,254	408	381	675	1,398
Mean	233	229	697	1,283	1,335	964	666	447	307	233	201	192	407

Table H1a5-68. 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 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 SJIE												
C	123	81	163	242	295	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	331	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 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	428	318	279	255	220
55 no SJIE												
C	125	81	193	254	342	329	209	217	205	178	123	79
D	240	198	341	388	492	503	367	316	285	297	273	169
BN	245	180	347	682	766	538	518	330	322	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 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	341	268	259	201
W	377	394	1,418	2,649	2,474	1,726	1,179	688	377	203	181	321
All	233	229	697	1,283	1,335	964	666	447	307	233	201	192

H1a5.2.35 Stony Creek above Confluence with Sacramento River (SWRCB Stony Creek)

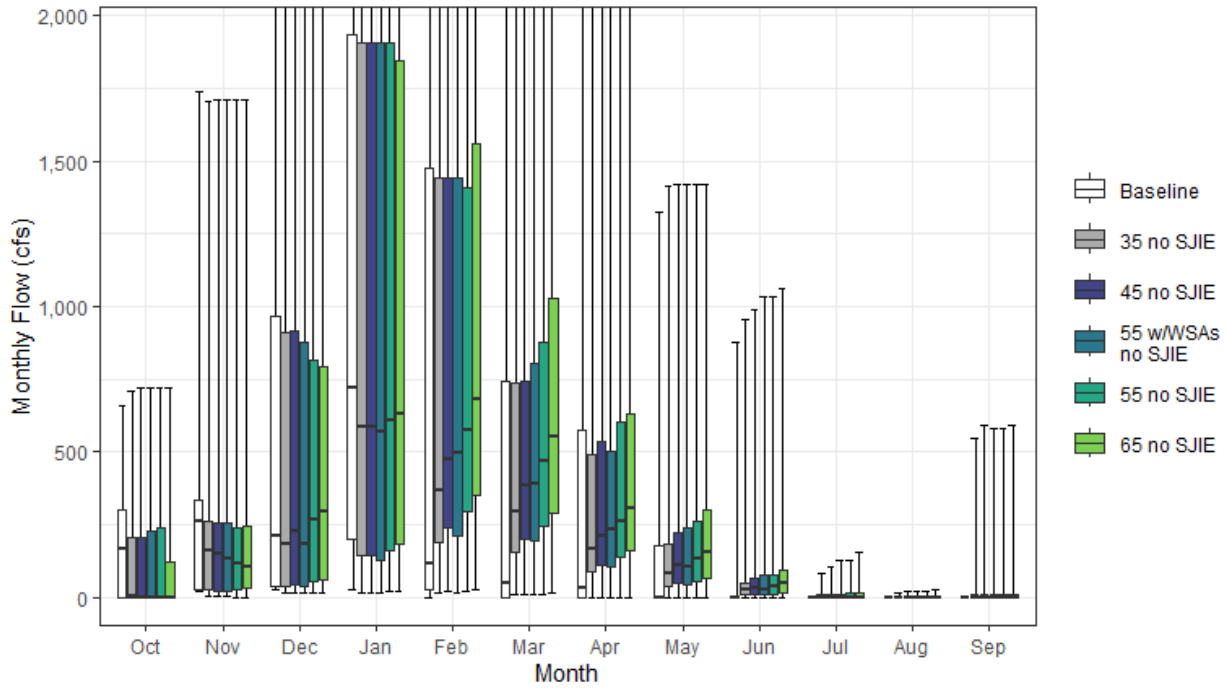

Figure H1a5-35. Stony Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-69. 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 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 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	55
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 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	22	601
100%	721	1,708	4,508	7,527	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 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	813	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	174	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 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	204	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 H1a5-70. 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 SJIE												
C	34	56	106	212	202	142	50	27	9	0	0	2
D	123	164	303	330	322	254	121	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 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	3
BN	123	144	320	602	626	372	272	114	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 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	423	258	67	10	1	5
W	231	347	1,383	2,563	2,322	1,524	977	469	169	22	4	130
All	138	192	639	1,219	1,138	728	437	215	70	9	1	42
55 no 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	42	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 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	130	136	293	645	781	535	388	151	48	5	0	3
AN	19	146	607	1,612	1,768	985	466	303	90	14	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

H1a5.2.36Sutter Bypass near Karnak

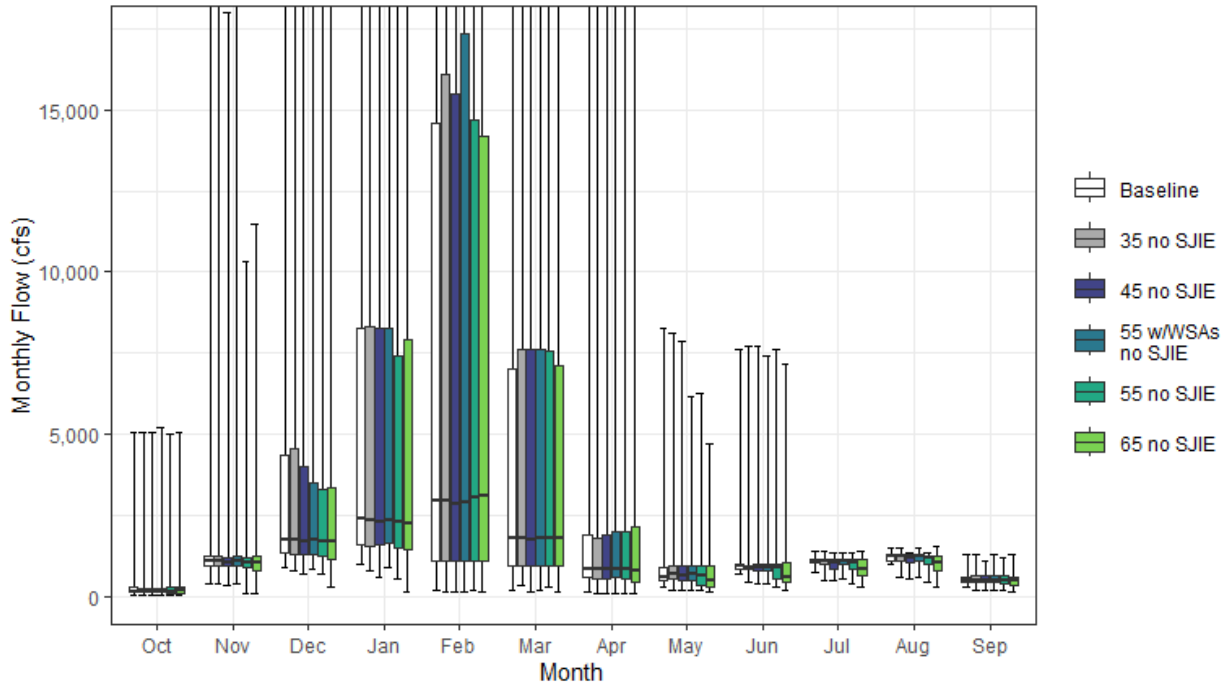

Figure H1a5-36. Sutter Bypass Streamflow near Karnak Monthly Boxplot (cfs)

Table H1a5-71. 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 SJIE													
0%	46	397	809	770	126	318	84	190	428	500	584	191	378
10%	96	800	975	1,200	648	608	285	289	529	820	845	300	639
25%	115	927	1,277	1,559	1,091	913	557	527	819	1,001	1,072	415	780
50%	144	1,083	1,731	2,331	2,946	1,766	841	685	900	1,088	1,218	481	1,334
75%	254	1,221	4,537	8,297	16,110	7,596	1,797	939	961	1,128	1,267	654	3,569
90%	517	1,493	15,933	27,493	38,882	21,494	7,858	1,283	1,079	1,186	1,295	708	6,177
100%	5,038	19,623	41,171	71,744	103,758	74,774	37,336	8,112	7,686	1,370	1,476	1,287	10,075
Mean	273	1,341	5,175	9,015	12,276	7,156	2,903	894	988	1,039	1,148	521	2,548
45 no SJIE													
0%	54	347	704	563	123	121	84	192	361	505	560	201	393
10%	83	761	992	1,105	634	562	284	286	518	705	786	365	622
25%	111	928	1,264	1,581	1,112	937	545	501	775	850	1,055	424	769
50%	142	1,057	1,685	2,305	2,845	1,764	839	638	899	1,060	1,209	498	1,264
75%	253	1,203	4,006	8,259	15,510	7,609	1,893	930	974	1,120	1,266	649	3,493
90%	516	1,536	14,994	27,485	38,836	21,478	7,791	1,282	1,158	1,177	1,295	703	6,190
100%	5,044	17,973	41,170	71,788	103,702	74,774	37,335	7,885	7,699	1,334	1,354	1,100	10,089
Mean	272	1,299	4,933	8,952	12,118	7,086	2,909	859	980	1,003	1,132	528	2,509
55 w/WSAs no SJIE													
0%	49	388	848	863	127	162	89	191	392	524	588	202	379
10%	97	825	1,017	1,196	614	572	320	301	540	792	909	360	627
25%	112	928	1,265	1,642	1,083	955	568	508	809	1,008	1,092	414	777
50%	143	1,063	1,749	2,325	2,870	1,783	839	670	901	1,077	1,229	483	1,329
75%	259	1,219	3,511	8,275	17,337	7,598	1,987	955	986	1,119	1,268	654	3,539
90%	516	1,519	15,569	26,766	38,769	21,479	7,863	1,271	1,198	1,163	1,298	717	6,192
100%	5,193	18,274	41,170	71,746	103,707	74,726	37,335	6,159	7,403	1,347	1,469	1,284	10,081
Mean	273	1,334	4,921	8,956	12,301	7,254	2,953	866	1,006	1,025	1,164	524	2,539
55 no SJIE													
0%	55	76	679	546	183	298	82	167	294	377	430	192	308
10%	77	628	961	1,096	554	594	278	240	430	613	697	258	599
25%	105	872	1,219	1,502	1,084	936	537	329	522	823	969	410	742
50%	140	1,060	1,699	2,288	3,041	1,782	842	624	877	1,041	1,189	494	1,260
75%	262	1,194	3,298	7,428	14,705	7,574	1,978	929	994	1,115	1,263	632	3,469
90%	476	1,552	14,727	26,952	38,496	20,313	7,856	1,308	1,203	1,181	1,298	699	6,076
100%	4,996	10,335	41,170	71,698	103,677	74,774	37,286	6,270	7,604	1,338	1,357	1,172	10,084
Mean	266	1,221	4,546	8,633	11,935	7,109	2,970	812	930	965	1,082	512	2,443
65 no SJIE													
0%	48	68	274	117	122	120	80	128	173	292	303	143	261
10%	79	319	758	969	501	517	206	196	317	462	538	226	514
25%	99	770	1,153	1,420	1,078	923	416	268	413	647	805	314	698
50%	164	1,023	1,684	2,234	3,110	1,784	790	471	608	861	1,039	462	1,253
75%	292	1,216	3,327	7,891	14,186	7,132	2,118	934	1,062	1,116	1,236	591	3,470
90%	438	1,538	12,173	25,937	37,119	18,762	8,242	1,350	1,215	1,192	1,297	676	6,118
100%	5,068	11,466	41,166	71,710	98,329	74,775	37,039	4,704	7,172	1,371	1,521	1,278	10,141
Mean	272	1,159	4,382	8,549	11,860	7,048	3,153	704	827	872	986	461	2,400

Table H1a5-72. 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 SJIE												
C	150	939	1,791	1,640	1,563	1,142	333	333	547	755	824	288
D	195	1,067	2,524	1,916	2,695	2,242	704	592	856	1,053	1,239	571
BN	215	1,058	3,149	2,776	6,773	2,015	1,136	669	876	1,098	1,251	544
AN	232	1,009	3,367	10,735	16,947	8,628	1,589	1,334	946	1,114	1,180	582
W	450	2,068	10,931	21,417	26,631	16,634	7,531	1,380	1,407	1,112	1,177	570
All	273	1,341	5,175	9,015	12,276	7,156	2,903	894	988	1,039	1,148	521
45 no SJIE												
C	153	877	1,838	1,637	1,523	1,123	294	319	517	702	784	318
D	172	1,074	2,246	1,889	2,655	2,024	701	519	785	985	1,219	575
BN	232	1,018	2,919	2,659	6,310	2,104	1,214	690	878	1,066	1,222	540
AN	234	978	3,606	10,470	16,674	8,363	1,559	1,312	989	1,110	1,207	630
W	449	1,996	10,359	21,411	26,563	16,623	7,537	1,323	1,431	1,093	1,167	556
All	272	1,299	4,933	8,952	12,118	7,086	2,909	859	980	1,003	1,132	528
55 w/WSAs no SJIE												
C	148	942	1,850	1,673	1,564	1,116	321	358	561	748	891	323
D	172	1,078	2,232	1,924	2,712	2,273	703	583	821	1,024	1,250	580
BN	221	1,021	3,122	2,742	6,530	2,449	1,235	680	904	1,078	1,229	551
AN	222	1,087	3,577	10,689	17,615	8,748	1,560	1,306	976	1,144	1,210	610
W	466	2,029	10,208	21,237	26,591	16,625	7,651	1,286	1,454	1,094	1,188	538
All	273	1,334	4,921	8,956	12,301	7,254	2,953	866	1,006	1,025	1,164	524
55 no SJIE												
C	139	806	1,745	1,499	1,467	1,121	248	244	426	611	658	295
D	174	1,035	2,142	1,724	2,733	2,112	686	429	619	866	1,092	537
BN	222	986	2,523	2,718	6,043	2,269	1,488	592	811	1,005	1,190	554
AN	221	1,022	2,925	10,130	16,461	8,451	1,637	1,237	998	1,166	1,227	589
W	447	1,809	9,731	20,652	26,187	16,496	7,567	1,366	1,475	1,121	1,174	553
All	266	1,221	4,546	8,633	11,935	7,109	2,970	812	930	965	1,082	512
65 no SJIE												
C	143	644	1,598	1,366	1,376	991	205	220	358	523	571	270
D	194	996	2,225	1,735	3,216	2,325	557	270	428	708	839	441
BN	204	850	2,365	2,885	6,281	2,619	1,696	440	535	828	1,018	435
AN	253	984	2,665	9,768	15,845	7,767	2,267	1,120	886	1,096	1,267	522
W	449	1,821	9,413	20,478	25,731	16,260	7,905	1,282	1,531	1,116	1,183	571
All	272	1,159	4,382	8,549	11,860	7,048	3,153	704	827	872	986	461

H1a5.2.37 Thomes Creek above Confluence with Sacramento River (SWRCB Thomes Creek)

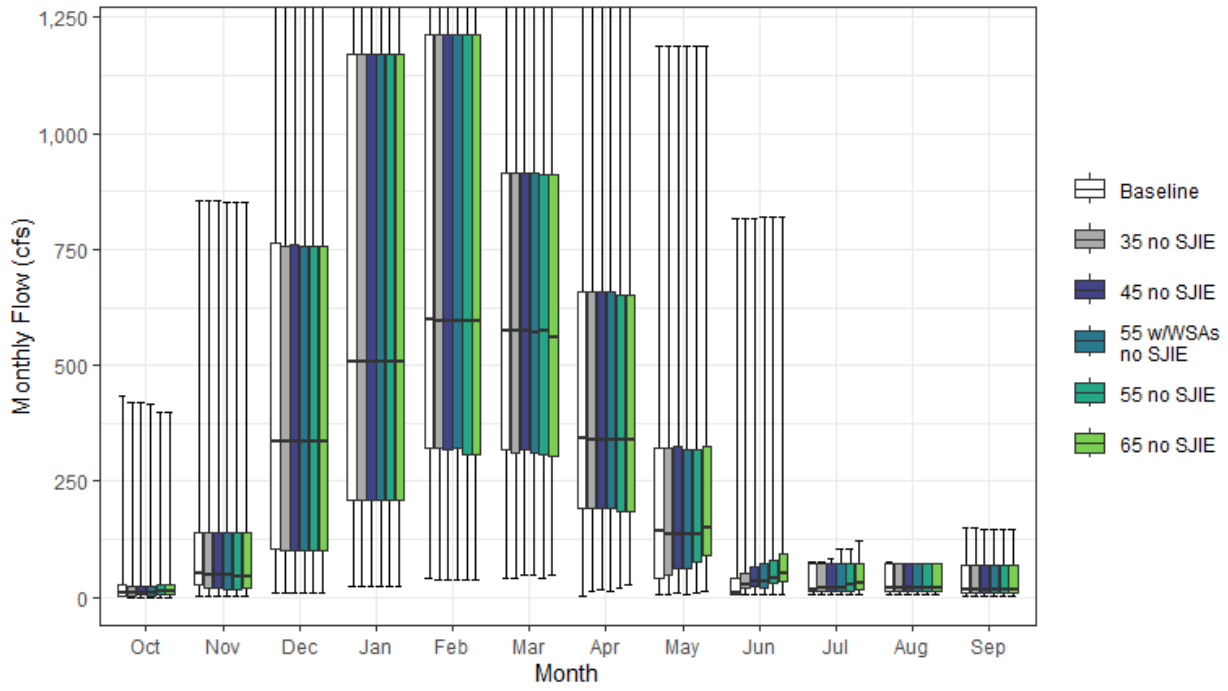

Figure H1a5-37. Thomes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a5-73. 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 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	100	211	320	312	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	321	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	1,187	816	76	74	151	700
Mean	28	117	518	780	930	701	461	244	61	37	37	37	237
45 no 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	611	137	73	73	70	452
100%	419	853	2,756	4,180	5,326	2,975	2,055	1,187	816	84	74	148	699
Mean	28	117	518	780	929	701	461	248	67	38	37	37	237
55 w/WSAs no 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	571	341	136	35	19	18	17	198
75%	25	139	759	1,170	1,213	914	660	319	71	72	71	69	332
90%	58	280	1,240	1,784	2,096	1,471	920	609	137	73	73	69	453
100%	418	853	2,756	4,180	5,326	2,975	2,054	1,187	820	103	74	147	701
Mean	28	116	517	780	929	700	461	246	68	38	37	37	237
55 no 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	697	462	252	74	40	37	37	238
65 no 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	919	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	694	462	258	83	42	38	37	238

Table H1a5-74. 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 SJIE												
C	15	19	250	293	401	294	119	54	17	8	7	6
D	13	104	334	285	580	485	251	108	24	15	14	19
BN	21	64	267	630	632	557	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	1,091	781	468	123	72	72	69
All	28	117	518	780	930	701	461	244	61	37	37	37
45 no SJIE												
C	17	20	251	293	401	295	120	61	22	8	7	6
D	14	104	334	285	580	482	251	115	30	16	14	19
BN	22	65	267	630	632	557	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	701	461	248	67	38	37	37
55 w/WSAs no SJIE												
C	15	20	251	293	401	295	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	150	43	19	19	20
AN	33	127	554	1,115	1,246	896	499	337	83	61	60	59
W	47	207	939	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 SJIE												
C	16	20	250	293	397	290	123	66	26	9	8	6
D	15	100	333	285	579	472	253	122	37	18	14	20
BN	23	64	267	630	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	1,090	781	472	138	75	72	69
All	29	116	517	779	928	697	462	252	74	40	37	37
65 no SJIE												
C	17	22	250	293	397	289	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	456	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	694	462	258	83	42	38	37

H1a5.2.38Trinity River below Lewiston Reservoir (SWRCB Trinity)

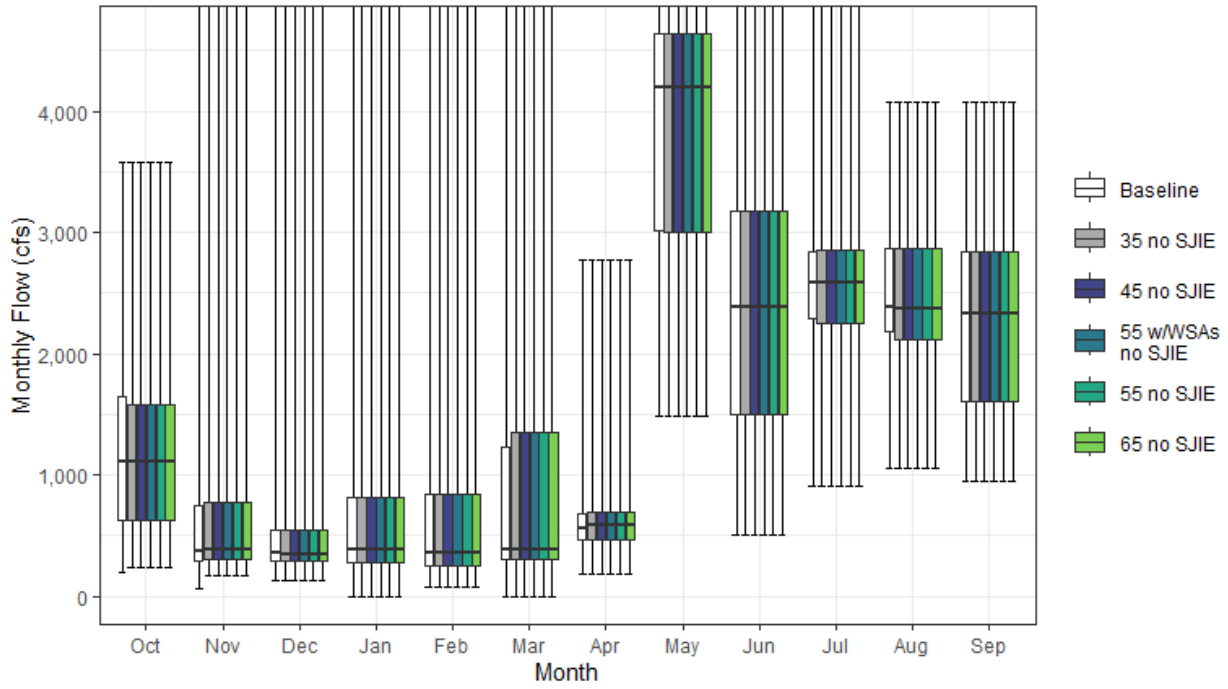

Figure H1a5-38. Trinity River Streamflow below Lewiston Reservoir Monthly Boxplot (cfs)

Table H1a5-75. 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 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 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 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 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 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

Table H1a5-76. 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 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 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 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 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	1,614	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 SJIE												
C	963	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

H1a5.2.39Yolo Bypass below Putah Creek Inflow

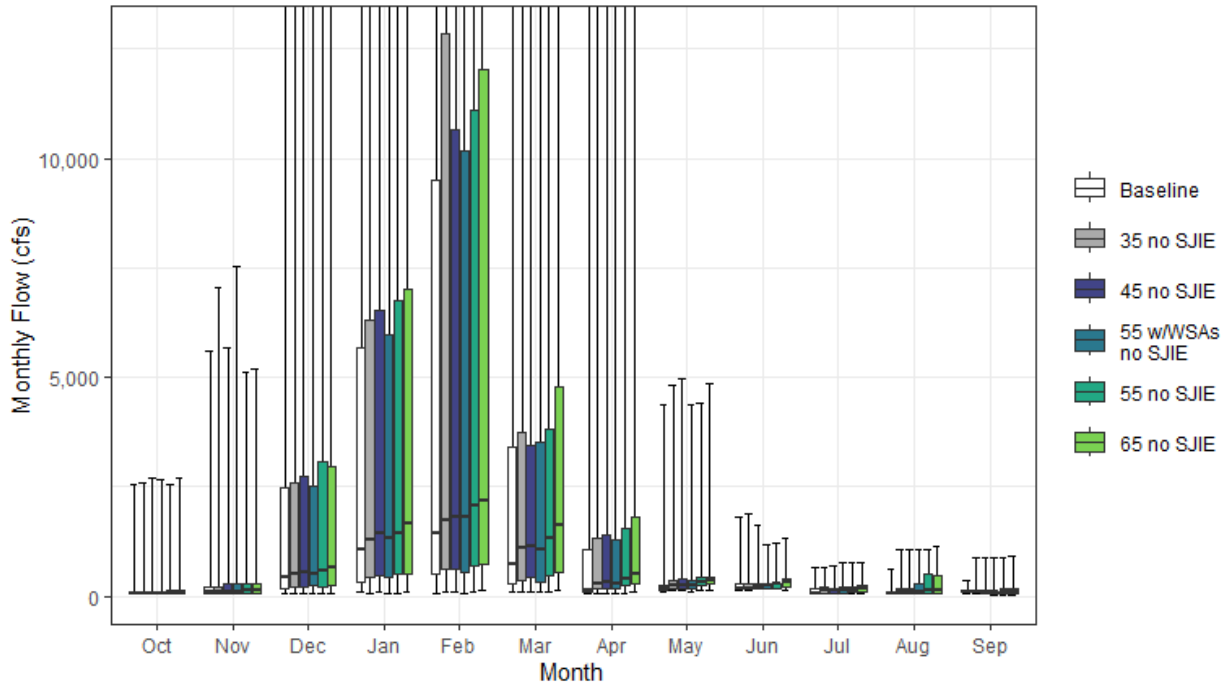

Figure H1a5-39. Yolo Bypass Streamflow below Putah Creek Inflow Monthly Boxplot (cfs)

Table H1a5-77. 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 SJIE													
0%	48	65	70	71	90	116	68	137	119	63	57	58	87
10%	52	73	98	205	151	171	122	150	177	67	71	75	176
25%	55	78	227	445	616	378	158	162	181	68	76	85	306
50%	70	92	506	1,297	1,721	1,098	284	234	192	121	88	92	683
75%	112	229	2,607	6,291	12,842	3,726	1,342	377	289	205	178	106	2,910
90%	157	501	12,232	29,438	45,022	23,804	3,872	1,048	327	251	569	196	7,837
100%	2,575	7,058	57,944	106,775	131,882	109,913	46,684	4,819	1,869	664	1,084	872	12,444
Mean	125	313	4,096	9,248	13,374	7,389	2,350	444	271	159	194	119	2,261
45 no SJIE													
0%	48	63	68	95	103	113	70	136	164	60	57	58	101
10%	52	69	96	248	169	193	134	155	177	66	68	74	198
25%	55	80	193	462	619	437	183	179	181	70	75	80	313
50%	75	109	549	1,427	1,812	1,158	328	263	203	128	94	88	672
75%	118	286	2,728	6,535	10,645	3,446	1,406	392	293	192	179	120	2,977
90%	161	543	12,188	30,535	44,904	22,643	3,935	1,122	337	228	555	224	7,727
100%	2,698	5,680	57,722	105,587	127,655	109,903	46,897	4,984	1,642	694	1,083	873	12,382
Mean	129	315	4,068	9,439	13,265	7,322	2,409	470	277	157	191	125	2,267
55 w/WSAs no SJIE													
0%	48	63	69	68	81	112	60	112	162	63	57	40	91
10%	50	70	86	185	168	162	112	148	176	66	68	65	180
25%	54	79	235	434	547	335	159	159	185	78	76	78	290
50%	70	101	498	1,344	1,791	1,081	288	233	248	150	99	88	653
75%	112	284	2,512	5,954	10,187	3,509	1,271	356	301	210	295	96	2,844
90%	177	409	10,123	27,931	44,151	21,773	3,958	1,156	347	250	619	192	7,674
100%	2,678	7,514	56,480	105,119	126,870	109,889	46,291	4,382	1,162	757	1,053	876	12,436
Mean	126	306	3,735	9,072	12,963	7,240	2,423	447	282	169	216	113	2,203
55 no SJIE													
0%	48	62	69	77	107	113	64	135	159	56	57	39	110
10%	52	72	93	258	195	213	173	183	180	67	67	71	216
25%	57	80	199	498	704	482	243	251	192	93	75	79	372
50%	94	135	587	1,452	2,054	1,338	415	322	269	152	140	89	745
75%	127	279	3,061	6,768	11,084	3,833	1,539	424	303	211	511	164	3,123
90%	162	546	9,777	28,392	44,820	22,006	4,792	1,196	335	268	613	227	7,690
100%	2,568	5,104	57,440	105,546	120,130	108,280	46,944	4,409	1,212	756	1,076	876	12,356
Mean	134	287	3,937	9,371	13,208	7,407	2,554	517	293	175	288	128	2,275
65 no SJIE													
0%	47	62	71	98	120	125	102	154	139	46	49	32	111
10%	52	69	97	273	221	246	179	218	181	66	64	64	232
25%	62	77	233	501	750	539	284	292	215	89	76	75	407
50%	108	151	648	1,657	2,166	1,633	491	351	310	184	147	97	977
75%	146	292	2,955	7,006	12,045	4,793	1,822	422	380	264	481	177	3,051
90%	206	581	10,347	31,865	40,796	22,560	7,560	1,062	420	305	556	224	7,824
100%	2,706	5,190	57,354	106,567	115,212	107,594	46,363	4,857	1,322	761	1,127	913	12,507
Mean	149	329	4,127	9,554	13,368	7,598	2,915	532	339	192	276	136	2,348

Table H1a5-78. 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 SJIE												
C	92	101	730	962	780	436	131	187	222	147	231	180
D	82	190	1,092	664	1,827	1,229	303	230	246	154	176	108
BN	119	121	1,635	1,726	5,236	1,468	536	237	251	137	138	97
AN	116	236	2,221	8,643	15,426	7,260	822	434	205	104	212	98
W	183	667	10,404	24,968	32,893	19,417	6,794	871	353	204	215	116
All	125	313	4,096	9,248	13,374	7,389	2,350	444	271	159	194	119
45 no SJIE												
C	98	120	748	1,035	833	478	155	214	209	141	223	186
D	85	179	1,057	706	1,996	1,295	331	246	269	161	256	132
BN	117	138	1,533	1,961	5,335	1,749	614	234	256	138	132	112
AN	115	278	2,548	9,024	15,170	6,617	893	475	226	112	94	88
W	191	646	10,261	25,228	32,418	19,204	6,877	917	354	193	204	110
All	129	315	4,068	9,439	13,265	7,322	2,409	470	277	157	191	125
55 w/WSAs no SJIE												
C	95	119	684	926	658	357	121	189	227	164	279	171
D	78	140	922	624	1,732	1,263	270	236	252	157	339	107
BN	113	153	1,552	1,642	4,987	1,879	506	216	268	146	80	93
AN	117	230	2,314	8,394	15,163	6,469	851	452	262	128	96	88
W	192	656	9,377	24,587	31,932	18,999	7,071	885	351	210	227	108
All	126	306	3,735	9,072	12,963	7,240	2,423	447	282	169	216	113
55 no SJIE												
C	106	136	750	1,058	1,097	519	191	236	224	128	198	170
D	92	182	1,125	754	2,228	1,677	416	334	287	207	438	150
BN	123	157	1,311	2,078	5,160	2,251	802	333	299	171	247	129
AN	117	283	2,077	9,245	15,325	7,078	979	538	241	135	182	87
W	193	529	10,106	24,792	31,969	18,678	7,122	910	352	196	293	105
All	134	287	3,937	9,371	13,208	7,407	2,554	517	293	175	288	128
65 no SJIE												
C	131	154	803	1,236	1,257	754	214	224	205	114	152	139
D	103	178	1,289	815	2,578	2,178	537	397	376	250	424	195
BN	138	132	1,528	2,198	5,595	2,701	1,183	361	339	182	391	141
AN	126	268	2,089	9,826	15,280	7,303	1,150	579	305	129	140	92
W	210	681	10,443	24,951	31,899	18,442	7,903	886	395	223	214	106
All	149	329	4,127	9,554	13,368	7,598	2,915	532	339	192	276	136

H1a5.2.40Yuba River, North Fork above New Bullards Bar Reservoir (SWRCB New Bullards Bar Inflow)

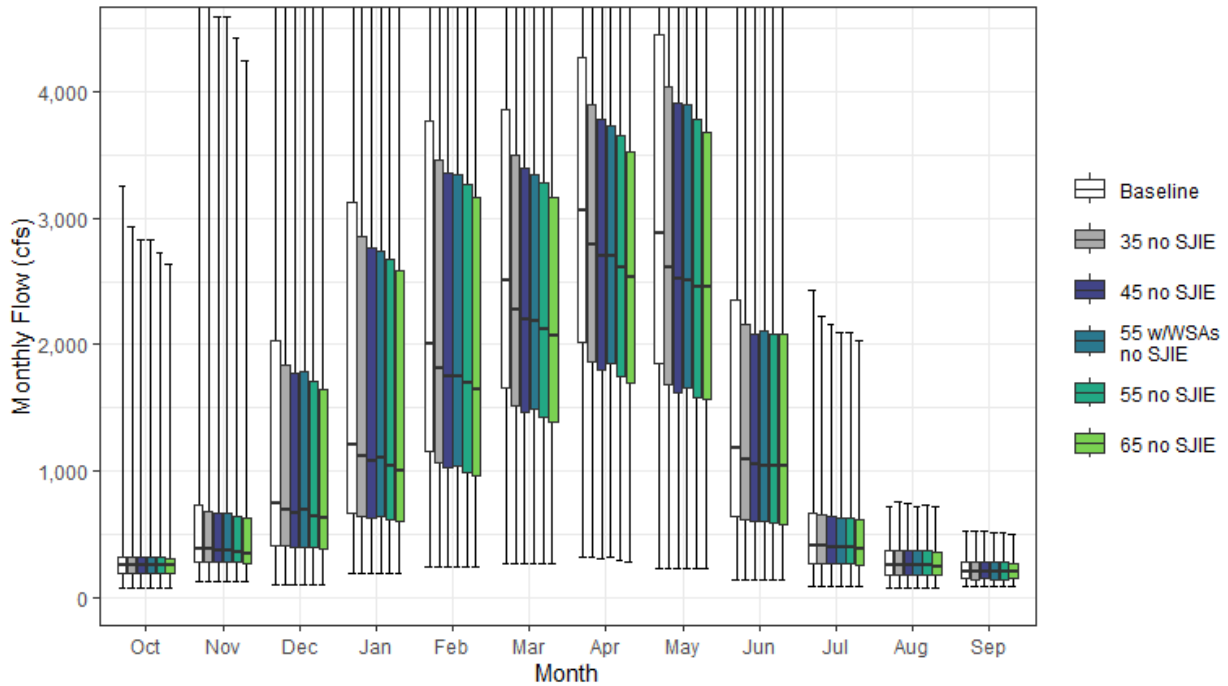

Figure H1a5-40. Yuba River, North Fork Streamflow above New Bullards Bar Reservoir Monthly Boxplot (cfs)

Table H1a5-79. 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 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	1,059	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	7,314	7,333	6,000	2,228	759	528	2,845
Mean	301	664	1,552	2,076	2,532	2,695	2,997	2,926	1,542	521	278	218	1,101
45 no SJIE													
0%	73	128	102	194	241	271	309	233	142	83	67	85	139
10%	159	213	280	352	611	934	1,187	644	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	7,314	7,117	5,690	2,161	745	518	2,802
Mean	298	647	1,541	2,034	2,470	2,634	2,908	2,829	1,492	511	277	217	1,074
55 w/WSAs no 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	3,895	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%	2,835	4,598	10,043	11,384	13,205	8,210	7,314	6,910	5,426	2,095	712	509	2,777
Mean	297	645	1,565	2,043	2,469	2,639	2,896	2,807	1,479	506	275	217	1,073
55 no 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	7,545	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 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	12,978	8,135	7,648	6,687	5,252	2,028	717	500	2,751
Mean	290	610	1,476	1,953	2,342	2,498	2,735	2,689	1,440	493	272	215	1,023

Table H1a5-80. 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 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	4,195	4,608	2,903	946	425	310
All	301	664	1,552	2,076	2,532	2,695	2,997	2,926	1,542	521	278	218
45 no 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	4,011	4,226	3,668	4,086	4,462	2,801	923	421	309
All	298	647	1,541	2,034	2,470	2,634	2,908	2,829	1,492	511	277	217
55 w/WSAs no 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	3,999	4,344	2,741	905	414	307
All	297	645	1,565	2,043	2,469	2,639	2,896	2,807	1,479	506	275	217
55 no SJIE												
C	234	280	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 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	2,622	1,230	401	256	201
AN	284	767	1,218	2,674	2,863	3,539	2,868	3,178	1,356	490	305	246
W	389	941	3,073	3,875	4,036	3,517	3,867	4,203	2,699	887	408	302
All	290	610	1,476	1,953	2,342	2,498	2,735	2,689	1,440	493	272	215

H1a5.2.41 Yuba River, Middle Fork above Confluence with North Fork Yuba (SWRCB M Yuba Inflow)

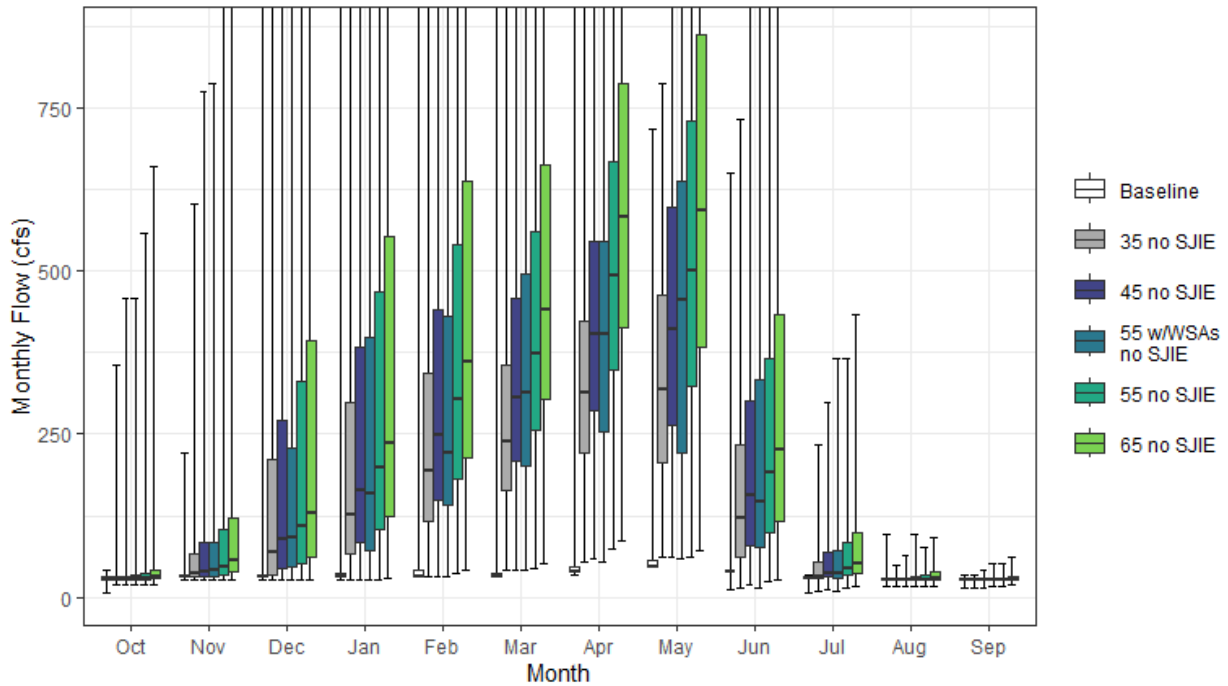

Figure H1a5-41. Yuba River, Middle Fork Streamflow above Confluence with North Fork Yuba Monthly Boxplot (cfs)

Table H1a5-81. 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 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	30	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 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	28	27	140
75%	31	85	272	383	441	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 SJIE													
0%	18	27	28	28	31	42	53	60	15	9	16	16	27
10%	27	29	31	39	87	133	165	98	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 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 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	27	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 H1a5-82. 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 SJIE												
C	31	34	55	52	98	130	152	135	69	28	24	23
D	30	52	83	75	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	403	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 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	583	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 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 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 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

H1a5.2.42 Yuba River, South Fork above Confluence with Yuba River (SWRCB S Yuba Inflow)

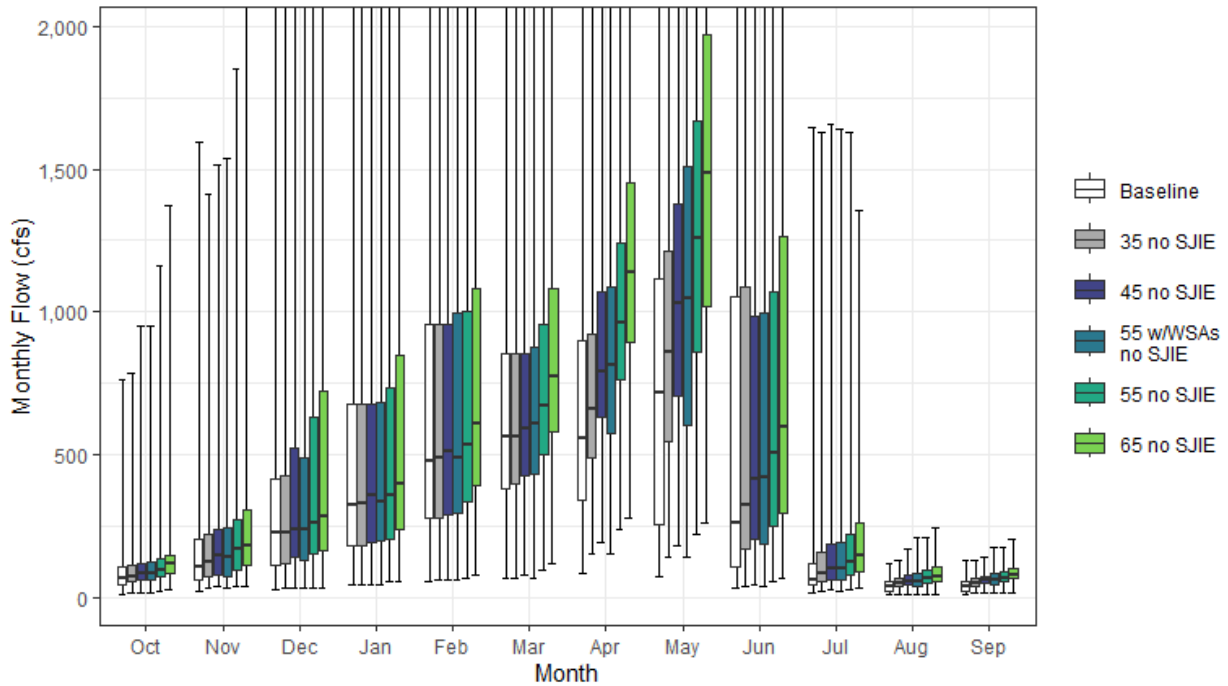

Figure H1a5-42. Yuba River, South Fork Streamflow above Confluence with Yuba River Monthly Boxplot (cfs)

Table H1a5-83. 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 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	1,055	1,383	1,445	1,581	1,215	1,869	1,951	228	83	79	600
100%	785	1,413	2,654	3,927	5,741	2,390	3,143	3,745	3,655	1,631	131	128	1,251
Mean	94	192	419	578	704	723	772	1,004	749	167	54	53	331
45 no 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	1,381	1,445	1,581	1,292	1,948	1,920	282	102	92	606
100%	951	1,516	2,643	3,781	5,642	2,387	3,106	3,696	3,353	1,658	169	142	1,270
Mean	106	216	439	581	712	751	890	1,140	744	187	62	62	354
55 w/WSAs no 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	1,518	337	107	99	624
100%	951	1,540	2,632	3,393	5,667	2,524	3,106	3,705	3,264	1,642	206	173	1,262
Mean	108	221	447	579	715	759	899	1,160	705	193	65	64	356
55 no 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	1,627	1,536	2,252	1,684	345	115	108	629
100%	1,162	1,852	2,787	3,389	5,331	2,451	3,174	3,561	3,167	1,628	206	173	1,273
Mean	122	253	481	606	738	817	1,033	1,330	754	206	72	73	390
65 no 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	1,714	1,728	2,541	1,867	408	132	126	702
100%	1,373	2,189	3,294	3,217	5,015	2,632	3,114	3,313	3,211	1,357	244	205	1,270
Mean	141	294	550	659	800	915	1,201	1,535	860	221	84	85	442

Table H1a5-84. 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 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	793	822	484	94	59	53
AN	86	246	454	791	860	975	771	1,199	658	107	48	54
W	120	281	811	1,145	1,242	1,095	1,122	1,670	1,641	365	67	65
All	94	192	419	578	704	723	772	1,004	749	167	54	53
45 no 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	804	870	1,002	910	1,321	671	131	57	62
W	141	324	847	1,134	1,234	1,107	1,198	1,773	1,551	397	79	75
All	106	216	439	581	712	751	890	1,140	744	187	62	62
55 w/WSAs no 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	878	1,000	960	1,395	693	145	61	68
W	146	334	884	1,126	1,247	1,139	1,294	1,954	1,454	421	94	87
All	108	221	447	579	715	759	899	1,160	705	193	65	64
55 no 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	1,144	1,251	1,139	1,321	1,985	1,439	420	95	89
All	122	253	481	606	738	817	1,033	1,330	754	206	72	73
65 no 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	1,329	1,209	1,495	2,226	1,599	427	112	104
All	141	294	550	659	800	915	1,201	1,535	860	221	84	85

H1a5.2.43 Yuba River below Englebright Reservoir (SWRCB Englebright)

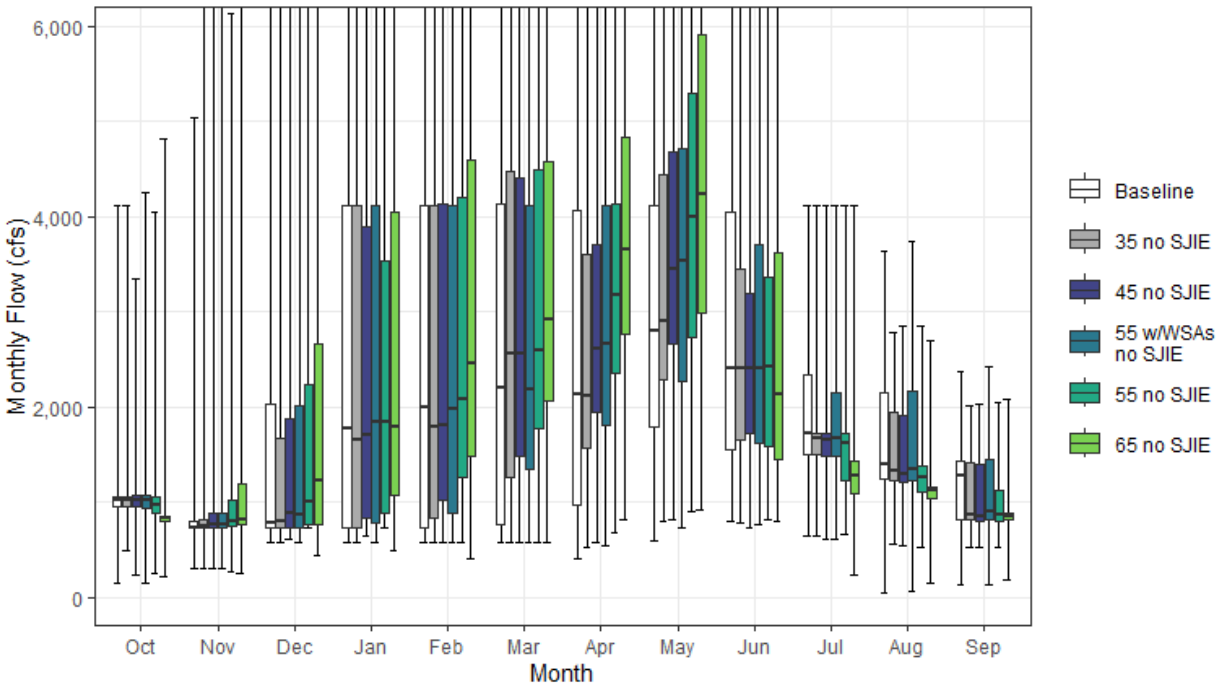

Figure H1a5-43. Yuba River Streamflow below Englebright Reservoir Monthly Boxplot (cfs)

Table H1a5-85. 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 SJIE													
0%	489	295	581	580	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	3,443	1,721	1,946	1,420	2,276
90%	1,100	1,145	4,553	6,720	7,444	6,723	5,091	6,986	5,388	1,779	2,209	1,561	2,967
100%	4,120	6,608	15,915	20,064	22,866	13,509	10,551	9,921	9,583	4,120	2,787	2,009	4,441
Mean	1,030	986	2,076	3,023	3,147	3,328	2,779	3,654	2,935	1,706	1,529	1,085	1,644
45 no SJIE													
0%	231	295	603	638	581	581	571	815	722	609	536	530	510
10%	903	731	731	731	731	908	1,507	1,779	1,313	1,340	1,095	735	822
25%	954	731	731	830	1,019	1,476	1,950	2,662	1,721	1,485	1,211	805	1,016
50%	1,022	757	877	1,707	1,804	2,563	2,618	3,445	2,409	1,661	1,299	855	1,386
75%	1,065	882	1,884	3,896	4,128	4,403	3,710	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	15,006	19,919	22,767	13,590	10,482	9,922	9,105	4,120	2,852	2,032	4,417
Mean	1,018	1,032	2,061	2,997	3,201	3,366	3,047	3,867	2,863	1,683	1,492	1,052	1,668
55 w/WSAs no SJIE													
0%	156	295	580	581	580	581	538	725	771	609	65	133	420
10%	903	730	730	730	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	4,121	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	6,502	4,999	6,699	4,859	3,357	2,291	1,586	2,975
100%	4,257	6,575	13,226	19,530	22,792	13,509	10,532	10,103	8,647	4,121	3,739	2,425	4,540
Mean	1,028	1,071	1,963	2,922	3,041	3,225	3,050	3,863	2,843	1,952	1,631	1,136	1,672
55 no SJIE													
0%	245	276	728	730	580	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	2,736	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	3,528	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	6,737	6,683	6,538	5,813	7,419	4,854	1,885	2,100	1,540	2,913
100%	4,055	6,129	14,275	19,526	22,456	13,350	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	3,425	4,207	2,829	1,595	1,368	1,005	1,707
65 no 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	1,520
75%	852	1,190	2,663	4,050	4,591	4,578	4,827	5,912	3,628	1,428	1,155	887	2,341
90%	963	2,039	5,033	6,631	6,579	6,699	5,716	7,411	5,148	1,818	2,149	1,529	2,928
100%	4,820	7,053	15,213	19,354	19,577	12,404	10,640	10,615	9,095	4,122	2,689	2,078	4,212
Mean	864	1,225	2,312	3,081	3,432	3,668	3,865	4,485	2,794	1,365	1,245	963	1,765

Table H1a5-86. 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 SJIE												
C	995	766	807	787	846	936	1,161	1,569	1,305	1,269	1,055	755
D	1,013	842	998	1,133	1,166	1,782	1,859	2,424	1,883	1,533	1,269	851
BN	1,004	787	1,096	1,846	2,063	2,590	2,699	3,335	2,620	1,688	1,434	1,071
AN	954	1,223	1,881	3,655	3,467	4,831	2,724	4,003	2,819	1,688	1,568	1,151
W	1,109	1,240	4,242	6,094	6,384	5,604	4,389	5,731	4,821	2,084	2,017	1,416
All	1,030	986	2,076	3,023	3,147	3,328	2,779	3,654	2,935	1,706	1,529	1,085
45 no SJIE												
C	993	767	849	831	931	1,153	1,422	1,656	1,265	1,146	978	750
D	992	892	1,038	1,118	1,358	1,881	2,265	2,763	1,864	1,507	1,229	832
BN	996	808	1,107	1,832	2,116	2,592	3,061	3,571	2,559	1,679	1,372	957
AN	930	1,260	1,918	3,668	3,489	4,649	2,928	4,233	2,762	1,688	1,508	1,126
W	1,100	1,327	4,120	6,001	6,334	5,612	4,524	5,897	4,680	2,098	2,031	1,405
All	1,018	1,032	2,061	2,997	3,201	3,366	3,047	3,867	2,863	1,683	1,492	1,052
55 w/WSAs no 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	2,493	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	3,441	4,360	3,363	4,424	2,894	1,911	1,681	1,309
W	1,139	1,446	3,843	5,768	5,953	5,621	4,696	6,156	4,693	2,853	2,272	1,485
All	1,028	1,071	1,963	2,922	3,041	3,225	3,050	3,863	2,843	1,952	1,631	1,136
55 no 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	888	1,255	2,063	3,659	3,697	4,737	3,432	4,847	2,849	1,640	1,264	848
W	1,127	1,482	4,098	5,768	6,165	5,585	4,794	6,274	4,615	2,119	1,868	1,400
All	989	1,105	2,115	2,938	3,260	3,493	3,425	4,207	2,829	1,595	1,368	1,005
65 no SJIE												
C	793	749	934	941	1,229	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	5,927	6,202	5,392	5,150	6,515	4,666	1,911	1,793	1,376
All	864	1,225	2,312	3,081	3,432	3,668	3,865	4,485	2,794	1,365	1,245	963

H1a5.2.44 Yuba River above Confluence with Feather River (SWRCB Yuba River)

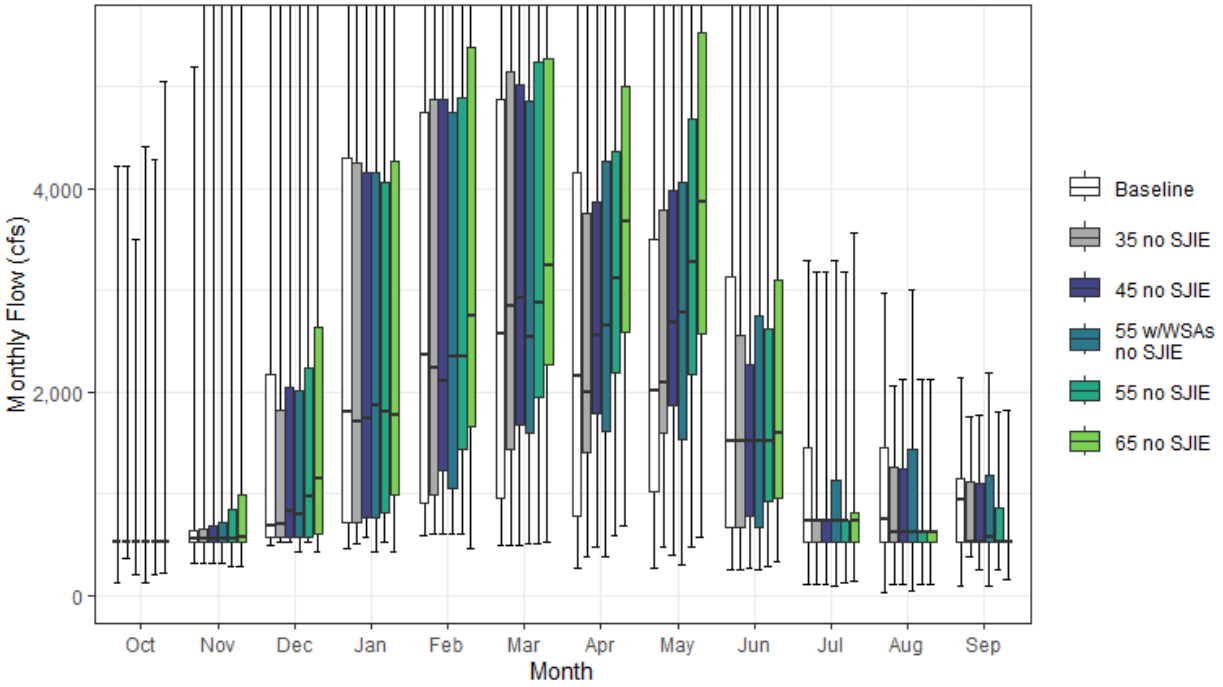

Figure H1a5-44. Yuba River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a5-87. 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 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	520	522
25%	520	524	570	710	989	1,435	1,397	1,601	674	528	528	528	711
50%	524	557	706	1,714	2,232	2,840	2,003	2,087	1,513	727	627	528	1,155
75%	524	656	1,816	4,247	4,879	5,152	3,751	3,796	2,562	727	1,252	1,112	2,166
90%	524	1,071	4,899	7,447	8,608	7,663	5,534	6,327	4,490	819	1,550	1,285	2,901
100%	4,222	6,745	16,349	22,361	25,533	15,576	11,629	9,440	8,753	3,184	2,056	1,754	4,494
Mean	552	827	2,077	3,227	3,652	3,779	2,829	2,932	2,067	773	855	795	1,465
45 no SJIE													
0%	197	314	522	564	601	496	478	395	270	101	99	247	305
10%	517	523	524	640	778	983	1,344	952	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	3,872	3,980	2,272	727	1,245	1,099	2,192
90%	524	1,351	4,721	7,413	8,555	7,412	5,571	6,363	4,248	874	1,577	1,278	2,851
100%	3,503	6,826	15,452	22,217	25,435	15,673	11,561	9,440	8,281	3,184	2,120	1,777	4,467
Mean	548	871	2,064	3,203	3,706	3,817	3,101	3,159	2,010	764	826	760	1,493
55 w/WSAs no 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	573	1,189
75%	524	718	2,012	4,166	4,753	4,870	4,263	4,068	2,750	1,140	1,432	1,175	2,233
90%	524	1,444	4,541	6,166	6,834	7,416	5,518	5,979	3,968	2,360	1,648	1,328	2,897
100%	4,410	6,720	13,698	21,832	25,460	15,576	11,611	9,347	7,830	3,295	3,008	2,190	4,589
Mean	557	910	1,966	3,126	3,547	3,678	3,106	3,157	1,985	1,027	964	843	1,496
55 no SJIE													
0%	211	290	523	526	601	510	585	482	277	124	99	247	324
10%	425	523	524	610	863	1,184	1,642	1,086	426	428	428	428	629
25%	521	524	564	817	1,435	1,951	2,196	2,177	921	528	528	527	835
50%	523	555	969	1,803	2,345	2,874	3,112	3,279	1,513	727	627	528	1,240
75%	524	839	2,230	4,062	4,897	5,248	4,366	4,684	2,622	728	628	855	2,197
90%	524	1,651	4,789	7,433	7,892	7,507	6,172	6,632	3,944	986	1,376	1,252	2,837
100%	4,283	6,251	14,695	21,828	25,127	15,436	11,634	9,347	7,845	3,184	2,127	1,800	4,361
Mean	563	936	2,112	3,141	3,764	3,946	3,496	3,597	2,064	763	727	696	1,552
65 no 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	2,637	4,264	5,385	5,277	5,014	5,534	3,100	807	628	529	2,330
90%	579	1,951	5,585	7,299	7,631	7,908	6,335	7,048	4,628	1,256	1,594	1,203	2,987
100%	5,060	7,122	15,624	21,706	22,274	14,455	11,671	10,272	8,570	3,560	2,126	1,822	4,351
Mean	578	1,040	2,306	3,277	3,936	4,119	3,974	4,131	2,281	803	741	660	1,675

Table H1a5-88. 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 SJIE												
C	509	531	667	714	967	1,020	997	916	548	427	427	462
D	508	659	931	1,067	1,353	2,020	1,738	1,656	977	582	580	556
BN	510	606	995	1,861	2,459	2,940	2,713	2,591	1,733	716	744	774
AN	506	1,101	1,828	3,964	4,092	5,458	2,824	3,279	1,947	727	914	866
W	653	1,139	4,455	6,721	7,349	6,399	4,683	5,019	3,937	1,150	1,332	1,134
All	552	827	2,077	3,227	3,652	3,779	2,829	2,932	2,067	773	855	795
45 no SJIE												
C	514	533	708	758	1,052	1,234	1,273	1,105	590	395	392	446
D	504	700	970	1,055	1,545	2,119	2,142	1,988	959	555	541	534
BN	512	624	1,006	1,848	2,512	2,943	3,073	2,825	1,672	708	683	661
AN	491	1,139	1,872	3,977	4,113	5,280	3,028	3,508	1,894	727	854	842
W	645	1,226	4,336	6,629	7,298	6,406	4,827	5,186	3,798	1,164	1,345	1,123
All	548	871	2,064	3,203	3,706	3,817	3,101	3,159	2,010	764	826	760
55 w/WSAs no 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	1,938	1,749	871	572	571	549
BN	512	646	1,002	1,956	2,462	2,663	3,005	2,741	1,622	747	897	856
AN	484	1,145	1,841	3,719	4,066	4,993	3,455	3,700	2,020	949	1,026	1,023
W	683	1,345	4,063	6,396	6,921	6,415	4,996	5,448	3,810	1,915	1,585	1,203
All	557	910	1,966	3,126	3,547	3,678	3,106	3,157	1,985	1,027	964	843
55 no SJIE												
C	522	541	750	807	1,202	1,478	1,556	1,348	661	372	363	434
D	499	751	1,097	1,029	1,803	2,442	2,608	2,409	1,044	540	528	519
BN	510	668	1,026	1,878	2,528	3,019	3,608	3,387	1,822	698	606	546
AN	499	1,144	1,995	3,969	4,322	5,366	3,537	4,186	2,012	741	627	553
W	690	1,368	4,316	6,401	7,128	6,382	5,094	5,564	3,735	1,186	1,183	1,118
All	563	936	2,112	3,141	3,764	3,946	3,496	3,597	2,064	763	727	696
65 no 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	722	1,181	2,036	2,851	3,347	4,260	3,988	1,940	660	580	527
AN	533	1,290	2,068	4,270	4,400	5,688	4,165	4,947	2,250	781	627	555
W	735	1,566	4,678	6,567	7,165	6,190	5,511	6,192	4,133	1,327	1,261	1,055
All	578	1,040	2,306	3,277	3,936	4,119	3,974	4,131	2,281	803	741	660

H1a5.2.45 Total Delta Inflow

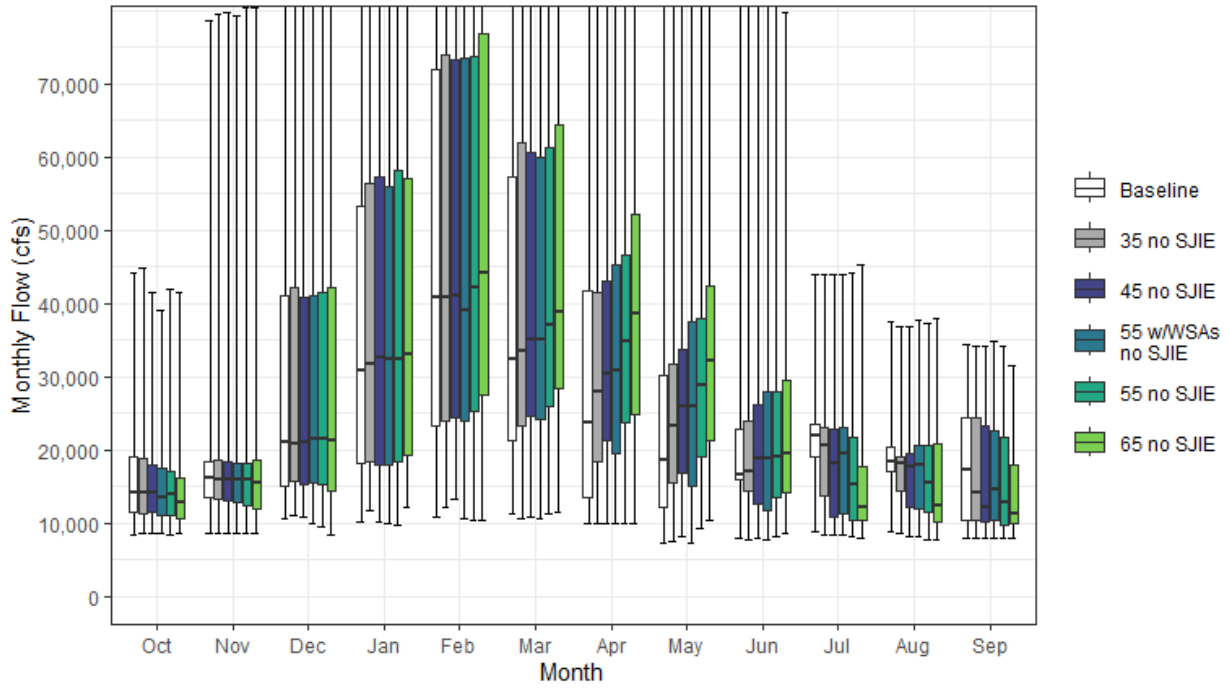

Figure H1a5-45. Total Delta Inflow Monthly Boxplot (cfs)

Table H1a5-89. 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 SJIE													
0%	8,495	8,629	11,031	11,694	12,230	10,678	9,886	7,544	7,662	8,487	8,524	7,938	7,452
10%	9,170	10,725	13,557	14,897	16,328	16,587	14,217	12,101	11,027	9,007	11,220	8,316	10,307
25%	11,217	13,273	15,670	18,427	23,937	23,167	18,351	15,592	14,432	13,784	14,304	10,448	13,179
50%	14,259	15,996	20,810	31,687	40,747	33,413	27,977	23,242	17,072	20,504	18,170	14,228	17,197
75%	18,766	18,584	42,184	56,352	74,004	61,868	41,590	31,770	23,860	23,130	19,127	24,340	28,809
90%	21,163	27,244	76,535	105,327	131,746	94,300	72,307	55,533	41,611	23,556	23,748	25,652	38,812
100%	44,728	79,511	158,628	258,322	266,016	244,769	152,518	85,222	81,829	43,949	36,738	34,141	63,421
Mean	15,542	18,299	34,364	47,879	59,037	48,472	35,867	27,782	22,155	19,031	17,725	16,896	21,814
45 no SJIE													
0%	8,495	8,677	10,766	10,088	13,220	10,864	9,906	8,193	7,848	8,338	8,057	7,910	7,502
10%	9,715	9,979	13,102	14,299	16,845	17,769	16,013	11,724	11,007	8,726	10,900	8,309	10,626
25%	11,471	12,945	15,295	17,937	24,325	24,507	21,309	16,822	12,653	10,773	12,072	10,178	13,285
50%	14,065	16,031	21,052	32,668	41,147	34,939	30,491	25,970	18,818	18,104	17,809	12,099	17,491
75%	18,043	18,318	40,764	57,387	73,290	60,635	42,969	33,671	26,132	22,831	19,599	23,274	29,001
90%	21,151	26,646	74,932	105,253	129,524	93,625	72,397	55,887	41,627	23,894	23,758	25,200	38,799
100%	41,430	79,767	158,290	257,121	261,659	244,760	152,704	85,456	81,455	44,013	36,880	34,189	63,374
Mean	15,344	18,151	34,214	48,160	59,135	49,069	37,883	29,554	22,482	17,776	17,061	16,251	21,936
55 w/WSAs no SJIE													
0%	8,509	8,533	9,886	9,848	10,608	10,600	9,896	7,246	7,682	8,479	8,185	7,933	7,126
10%	9,170	10,348	12,214	14,032	17,237	16,862	12,366	10,892	11,017	8,916	10,889	8,976	10,116
25%	11,096	12,827	15,395	17,955	23,977	24,108	19,509	15,047	11,763	11,216	11,969	10,321	12,743
50%	13,424	15,870	21,455	32,284	39,106	34,953	30,772	25,991	18,782	19,494	17,895	14,688	17,243
75%	17,483	18,164	41,011	55,927	73,436	60,008	45,199	37,564	27,900	23,035	20,620	22,656	29,292
90%	21,092	24,678	72,844	104,763	128,375	92,046	73,689	55,704	41,323	25,701	23,892	24,164	38,955
100%	39,081	79,176	156,828	256,618	260,885	244,745	152,135	84,607	80,630	44,019	37,707	34,749	63,460
Mean	14,978	17,840	33,722	47,552	58,681	48,737	37,736	29,516	22,630	18,136	17,153	16,211	21,804
55 no SJIE													
0%	8,480	8,690	9,532	9,754	10,459	11,245	9,868	9,244	8,081	8,177	7,808	7,914	7,390
10%	9,182	10,468	12,376	14,179	17,282	19,092	16,436	13,139	11,213	8,750	9,383	8,269	10,848
25%	10,961	12,457	15,350	18,487	25,330	25,990	23,768	19,116	13,591	10,333	11,498	9,789	13,490
50%	13,998	15,976	21,395	32,476	42,273	36,944	34,831	28,716	18,940	15,212	15,467	12,847	18,077
75%	16,995	18,265	41,480	58,174	73,726	61,256	46,704	37,980	27,973	21,752	20,641	21,717	29,197
90%	21,069	25,865	74,247	103,396	128,357	92,178	74,028	55,877	41,342	25,804	23,973	23,620	38,911
100%	41,848	80,325	157,977	256,321	253,887	243,136	152,752	84,663	80,780	44,178	37,276	34,056	63,373
Mean	14,878	18,093	34,071	48,209	59,545	50,285	40,437	31,876	23,282	16,413	16,218	15,425	22,153
65 no SJIE													
0%	8,498	8,651	8,465	12,060	10,474	11,471	9,910	10,283	8,710	8,004	7,675	7,926	7,953
10%	9,057	10,138	11,485	15,591	17,328	19,328	17,658	14,808	11,194	8,850	9,054	8,251	11,015
25%	10,652	12,008	14,425	19,335	27,420	28,336	24,935	21,310	14,209	10,279	10,141	9,940	13,583
50%	12,713	15,452	21,258	33,020	44,139	38,913	38,612	32,056	19,476	12,102	12,420	11,215	18,244
75%	16,098	18,634	42,065	57,013	76,820	64,309	52,094	42,393	29,419	17,760	20,862	17,956	29,189
90%	20,914	25,976	74,667	104,435	126,289	92,256	78,369	59,227	42,431	25,395	24,257	22,261	39,660
100%	41,437	80,494	157,887	252,629	246,098	242,449	152,240	84,788	79,638	45,190	37,971	31,397	63,279
Mean	14,129	17,961	34,294	48,942	60,451	52,228	43,382	34,512	24,145	15,435	15,202	14,063	22,513

Table H1a5-90. 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 SJIE												
C	12,688	12,676	17,456	18,598	20,861	18,218	12,781	11,015	10,801	9,717	11,138	8,483
D	14,227	15,775	22,994	20,393	28,990	27,505	20,510	17,033	14,417	14,801	14,743	11,125
BN	15,779	16,291	22,791	31,052	45,266	34,938	30,042	22,425	18,176	20,114	17,610	13,225
AN	14,551	19,208	30,235	58,494	74,214	60,021	36,019	30,457	21,277	22,474	19,026	24,551
W	18,274	24,057	60,699	90,062	104,083	83,935	63,068	46,931	36,755	25,039	22,976	24,878
All	15,542	18,299	34,364	47,879	59,037	48,472	35,867	27,782	22,155	19,031	17,725	16,896
45 no SJIE												
C	12,437	12,311	17,194	18,326	21,759	19,474	14,004	12,112	10,576	9,170	10,542	8,247
D	14,012	15,703	22,957	20,551	29,627	28,889	23,265	18,681	13,575	12,782	13,236	10,861
BN	15,522	16,061	22,993	31,431	45,178	36,394	33,259	24,883	18,836	17,313	16,296	11,834
AN	14,403	18,452	30,646	59,293	73,933	59,242	38,096	33,388	22,704	21,269	18,843	24,080
W	18,134	24,264	60,080	90,459	103,626	83,611	64,183	48,253	37,583	24,923	23,116	24,138
All	15,344	18,151	34,214	48,160	59,135	49,069	37,883	29,554	22,482	17,776	17,061	16,251
55 w/WSAs no SJIE												
C	12,292	12,013	16,448	17,803	21,127	18,090	12,259	10,335	10,082	8,856	10,063	8,697
D	13,497	15,201	22,881	20,401	29,145	28,291	21,619	16,695	13,049	12,227	12,934	11,471
BN	15,043	15,611	23,122	30,897	44,743	36,307	33,008	24,746	18,141	18,683	16,394	12,666
AN	13,785	17,990	30,980	57,821	73,635	58,627	39,099	34,728	23,750	21,400	19,508	21,963
W	17,932	24,235	58,696	89,770	103,214	83,994	65,590	50,083	38,745	25,768	23,569	23,639
All	14,978	17,840	33,722	47,552	58,681	48,737	37,736	29,516	22,630	18,136	17,153	16,211
55 no SJIE												
C	11,963	11,989	16,519	18,438	22,459	20,367	15,168	13,448	11,066	8,699	9,292	8,308
D	13,434	15,525	23,209	20,639	30,992	31,214	26,094	20,598	13,964	10,716	11,714	10,742
BN	14,741	15,904	22,994	32,192	45,746	38,509	37,328	27,891	19,132	14,545	14,488	11,824
AN	13,980	18,435	30,819	59,720	73,689	60,417	41,397	37,018	23,841	18,201	18,598	18,830
W	17,938	24,480	59,712	89,843	103,346	83,631	66,016	50,441	39,036	25,172	23,358	23,573
All	14,878	18,093	34,071	48,209	59,545	50,285	40,437	31,876	23,282	16,413	16,218	15,425
65 no SJIE												
C	11,178	11,682	16,654	20,055	23,237	21,984	16,650	15,104	11,849	8,862	8,966	8,272
D	12,752	15,629	23,789	21,258	32,972	34,280	27,820	22,920	14,943	10,480	10,400	10,290
BN	14,190	15,397	22,784	33,122	46,779	41,330	41,223	30,480	19,981	12,316	11,792	11,287
AN	13,000	18,354	30,274	60,932	74,133	62,683	45,900	40,088	24,542	15,364	15,993	15,960
W	17,125	24,488	60,302	89,873	103,635	84,241	69,411	53,686	39,928	24,578	23,892	20,916
All	14,129	17,961	34,294	48,942	60,451	52,228	43,382	34,512	24,145	15,435	15,202	14,063

H1a5.2.46 Delta Outflow (SWRCB Delta)

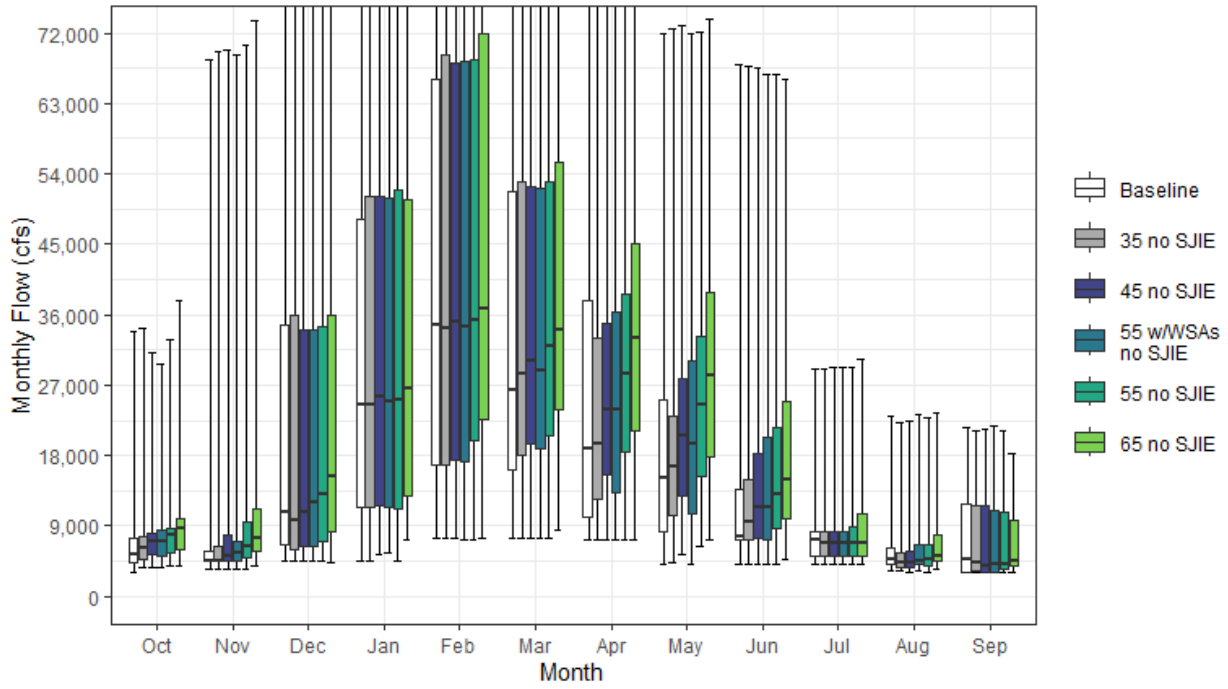

Figure H1a5-46. Delta Outflow Monthly Boxplot (cfs)

Table H1a5-91. 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 SJIE													
0%	3,644	3,500	4,500	4,508	7,447	7,498	7,187	4,277	4,137	4,161	3,173	3,056	4,172
10%	4,392	3,810	4,569	8,247	10,523	10,890	9,116	7,265	7,238	4,190	3,643	3,086	5,589
25%	4,773	4,505	5,909	11,463	16,835	17,980	12,477	10,305	7,289	5,185	3,730	3,170	7,348
50%	6,203	4,596	9,760	24,476	34,173	28,528	19,455	16,669	9,508	6,727	4,226	4,204	10,889
75%	7,622	6,334	35,926	51,047	69,137	52,983	32,985	23,035	14,906	8,224	5,560	11,496	21,561
90%	8,828	15,258	68,322	98,342	124,210	87,315	61,295	45,399	28,852	8,718	9,786	13,054	30,937
100%	34,345	69,549	149,575	250,649	258,764	239,647	144,432	72,568	67,810	29,126	22,285	21,228	55,258
Mean	6,877	8,172	25,431	41,299	52,475	42,322	28,741	20,840	14,032	7,393	5,585	7,202	15,606
45 no SJIE													
0%	3,622	3,500	4,500	5,332	7,381	7,493	7,188	5,297	4,136	4,158	3,127	3,054	4,336
10%	4,637	4,471	4,791	7,440	11,245	11,618	10,513	7,939	7,239	4,184	3,632	3,085	6,225
25%	5,250	4,526	6,343	11,573	17,438	19,385	15,481	12,775	7,454	5,180	3,706	3,097	7,679
50%	6,947	5,152	10,674	25,503	35,131	30,050	23,872	20,624	11,284	6,710	4,403	3,878	11,743
75%	8,102	7,796	34,124	51,071	68,200	52,399	34,950	27,769	18,230	8,229	5,693	11,569	22,002
90%	9,381	15,305	67,507	98,509	120,605	87,592	62,137	45,779	29,273	8,807	9,780	12,762	31,204
100%	31,087	69,805	149,237	249,449	254,404	239,613	144,606	73,010	67,435	29,190	22,427	21,276	55,180
Mean	7,268	8,588	25,523	41,616	52,695	42,936	31,070	23,233	15,140	7,353	5,623	7,021	16,071
55 w/WSAs no SJIE													
0%	3,643	3,500	4,500	5,491	7,226	7,506	7,202	4,159	4,147	4,175	3,336	3,057	4,089
10%	4,370	3,763	5,106	7,751	11,044	10,980	9,079	7,484	7,245	4,200	3,646	3,088	5,842
25%	5,101	4,509	6,315	11,464	17,193	18,942	13,271	10,519	7,307	5,186	4,040	3,102	7,674
50%	6,919	5,465	11,959	24,906	34,397	28,932	23,839	19,511	11,463	6,718	4,541	3,993	11,162
75%	8,501	7,084	34,070	50,862	68,312	52,127	36,429	30,016	20,367	8,338	6,581	10,865	22,395
90%	9,626	14,105	65,613	97,947	119,757	83,971	62,840	46,211	29,277	10,650	9,781	11,705	31,707
100%	29,641	69,214	147,766	248,944	253,608	239,606	144,049	71,953	66,611	29,196	23,254	21,836	55,311
Mean	7,299	8,587	25,219	41,067	52,192	42,629	30,850	23,213	15,371	7,675	5,884	6,835	15,998
55 no 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	13,268	12,631	9,546	7,236	4,184	3,679	3,092	6,789
25%	5,473	4,903	7,029	11,124	19,974	20,618	18,361	15,224	8,575	5,172	3,955	3,437	8,691
50%	7,894	6,297	13,046	25,098	35,200	31,960	28,417	24,456	13,060	6,702	4,693	4,103	12,696
75%	8,735	9,528	34,463	51,859	68,514	53,001	38,673	33,286	21,555	8,939	6,591	10,701	22,783
90%	9,827	15,251	67,014	97,143	119,674	84,934	63,517	47,015	29,297	10,745	10,035	11,332	31,942
100%	32,886	70,362	148,923	248,648	247,146	237,976	144,654	72,053	66,761	29,355	22,823	21,143	55,178
Mean	7,862	9,493	26,197	41,592	53,258	44,432	34,043	26,078	16,699	7,683	5,926	6,771	16,794
65 no 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	5,110
10%	5,336	4,636	6,282	9,931	13,692	15,403	14,748	11,152	7,246	4,275	4,046	3,299	7,715
25%	6,049	5,794	8,308	12,844	22,614	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	32,962	28,288	14,862	6,699	5,205	4,534	14,270
75%	9,842	11,261	35,818	50,636	71,878	55,396	45,083	38,822	24,880	10,564	7,790	9,638	24,397
90%	11,087	17,570	68,760	99,368	119,210	85,517	69,230	52,811	33,377	12,698	10,107	10,425	33,283
100%	37,775	73,619	151,349	245,048	243,088	238,642	145,025	73,696	65,994	30,219	23,341	18,304	55,938
Mean	8,611	10,822	27,793	42,744	54,770	46,824	37,808	29,684	18,560	8,357	6,561	6,560	17,944

Table H1a5-92. 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 SJIE												
C	5,726	4,368	9,243	12,580	15,073	12,770	8,792	7,373	6,395	4,206	3,798	3,362
D	5,939	5,977	13,210	13,428	23,031	22,481	14,256	11,520	7,841	5,185	3,833	3,480
BN	6,877	6,135	13,609	24,478	38,816	29,314	22,895	16,105	9,977	6,885	4,405	3,821
AN	6,209	9,124	20,921	52,707	67,898	53,841	27,898	22,569	12,055	8,739	4,991	12,385
W	8,447	12,721	52,317	83,143	96,495	76,264	54,043	37,165	26,003	10,494	8,807	12,047
All	6,877	8,172	25,431	41,299	52,475	42,322	28,741	20,840	14,032	7,393	5,585	7,202
45 no SJIE												
C	5,884	4,408	9,447	12,736	16,417	14,166	10,140	8,771	6,556	4,179	3,881	3,266
D	6,261	6,417	13,666	13,404	23,690	23,908	17,530	14,097	8,561	5,183	3,747	3,386
BN	7,303	6,440	13,957	24,908	38,871	30,782	26,432	19,485	11,666	6,717	4,395	3,517
AN	6,767	9,087	21,541	53,492	67,767	53,015	30,550	26,102	14,100	8,252	5,021	12,541
W	8,924	13,569	51,711	83,538	96,040	75,900	55,308	38,871	27,159	10,681	8,948	11,699
All	7,268	8,588	25,523	41,616	52,695	42,936	31,070	23,233	15,140	7,353	5,623	7,021
55 w/WSAs no SJIE												
C	5,811	4,432	9,354	12,211	15,311	12,863	8,766	7,075	6,216	4,342	4,218	3,218
D	6,494	6,274	13,715	13,497	23,183	23,251	15,345	12,427	8,067	5,190	3,784	3,401
BN	7,121	6,220	14,297	24,376	38,420	30,647	26,169	18,700	11,121	6,715	4,292	3,703
AN	6,744	9,152	21,574	52,063	67,492	52,412	31,394	27,575	14,966	8,363	5,561	11,637
W	9,018	13,772	50,493	82,848	95,738	76,390	56,745	40,843	28,464	11,608	9,450	11,344
All	7,299	8,587	25,219	41,067	52,192	42,629	30,850	23,213	15,371	7,675	5,884	6,835
55 no SJIE												
C	6,184	4,810	10,218	12,354	17,043	16,064	11,913	10,340	7,211	4,189	4,151	3,258
D	6,846	7,458	14,887	13,696	25,379	26,476	20,912	16,895	9,664	5,189	3,832	3,685
BN	7,690	7,019	14,830	25,486	39,768	32,961	30,845	23,220	13,695	6,734	4,336	3,923
AN	7,581	10,064	22,365	53,915	67,585	54,195	34,568	30,321	16,584	8,511	5,875	10,802
W	9,723	14,822	51,743	82,914	95,831	76,090	57,291	41,320	28,865	11,646	9,436	11,099
All	7,862	9,493	26,197	41,592	53,258	44,432	34,043	26,078	16,699	7,683	5,926	6,771
65 no SJIE												
C	6,739	5,534	11,394	14,565	18,938	18,478	13,759	12,008	8,050	4,310	4,248	3,360
D	7,602	8,713	16,940	14,939	28,301	30,272	24,389	19,693	10,939	5,431	4,435	4,282
BN	8,105	8,099	16,203	26,855	41,427	36,232	35,774	26,977	15,788	6,908	4,960	4,513
AN	8,535	11,422	24,110	55,228	67,976	56,631	39,529	34,789	19,117	9,153	6,941	10,103
W	10,700	16,675	53,311	83,231	96,460	76,867	61,075	46,112	31,286	13,261	10,215	9,815
All	8,611	10,822	27,793	42,744	54,770	46,824	37,808	29,684	18,560	8,357	6,561	6,560

H1a5.3 Delta Interior Flows

H1a5.3.1 Delta Cross Channel

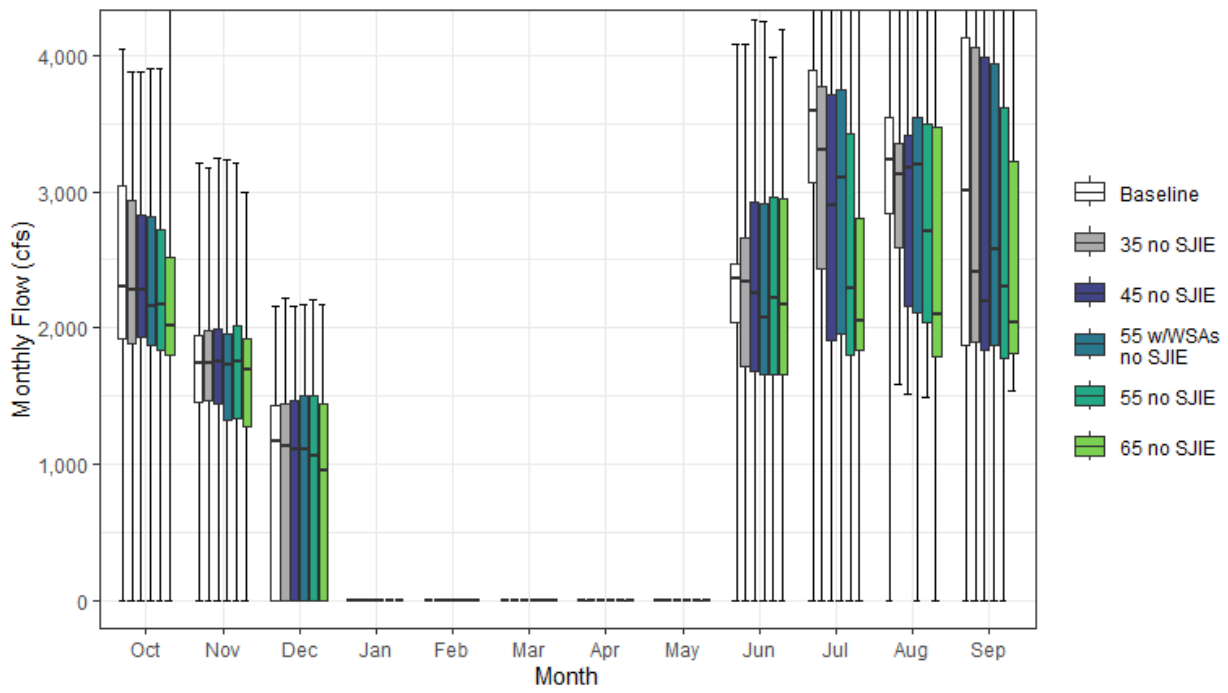

Figure H1a5-47. Delta Cross Channel Monthly Boxplot (cfs)

Table H1a5-93. 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 SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,591	0	294
10%	1,555	1,052	0	0	0	0	0	0	0	1,689	2,110	1,569	704
25%	1,887	1,469	0	0	0	0	0	0	1,711	2,436	2,589	1,898	841
50%	2,278	1,739	1,131	0	0	0	0	0	2,343	3,304	3,128	2,411	1,006
75%	2,931	1,976	1,448	0	0	0	0	0	2,656	3,774	3,357	4,056	1,119
90%	3,330	2,268	1,728	0	0	0	0	0	3,211	4,035	3,792	4,484	1,186
100%	3,879	3,179	2,218	0	0	0	0	0	4,078	4,473	4,778	4,882	1,324
Mean	2,415	1,682	950	0	0	0	0	0	2,108	3,066	3,033	2,891	980
45 no SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,514	0	295
10%	1,551	1,065	0	0	0	0	0	0	0	1,660	2,020	1,551	678
25%	1,933	1,439	0	0	0	0	0	0	1,679	1,908	2,163	1,835	778
50%	2,275	1,753	1,111	0	0	0	0	0	2,256	2,904	3,174	2,197	996
75%	2,832	1,988	1,465	0	0	0	0	0	2,928	3,708	3,415	3,988	1,113
90%	3,300	2,354	1,803	0	0	0	0	0	3,455	4,002	3,732	4,254	1,193
100%	3,882	3,242	2,164	0	0	0	0	0	4,259	4,475	4,798	4,623	1,337
Mean	2,386	1,704	948	0	0	0	0	0	2,189	2,847	2,923	2,685	951
55 w/WSAs no SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	1,551	1,067	0	0	0	0	0	0	0	1,681	1,905	1,649	689
25%	1,870	1,327	0	0	0	0	0	0	1,661	1,953	2,116	1,872	799
50%	2,159	1,726	1,111	0	0	0	0	0	2,076	3,101	3,197	2,580	972
75%	2,817	1,954	1,507	0	0	0	0	0	2,912	3,749	3,544	3,943	1,110
90%	3,316	2,344	1,813	0	0	0	0	0	3,718	4,041	3,716	4,169	1,192
100%	3,900	3,236	2,175	0	0	0	0	0	4,255	4,694	4,684	4,552	1,370
Mean	2,326	1,665	954	0	0	0	0	0	2,134	2,918	2,891	2,791	951
55 no SJIE													
0%	0	0	0	0	0	0	0	0	0	0	1,486	0	299
10%	1,535	1,040	0	0	0	0	0	0	0	1,650	1,771	1,557	659
25%	1,833	1,337	0	0	0	0	0	0	1,654	1,801	2,044	1,776	761
50%	2,169	1,751	1,056	0	0	0	0	0	2,213	2,287	2,714	2,308	926
75%	2,720	2,020	1,499	0	0	0	0	0	2,954	3,430	3,491	3,612	1,076
90%	3,316	2,434	1,837	0	0	0	0	0	3,463	4,000	3,750	4,065	1,174
100%	3,899	3,210	2,206	0	0	0	0	0	3,986	4,644	4,862	4,529	1,306
Mean	2,297	1,661	932	0	0	0	0	0	2,109	2,598	2,759	2,646	910
65 no SJIE													
0%	0	0	0	0	0	0	0	0	0	0	0	1,541	531
10%	1,533	1,037	0	0	0	0	0	0	0	1,665	1,662	1,565	633
25%	1,798	1,269	0	0	0	0	0	0	1,659	1,835	1,789	1,812	720
50%	2,015	1,695	958	0	0	0	0	0	2,174	2,051	2,098	2,035	849
75%	2,513	1,921	1,442	0	0	0	0	0	2,951	2,806	3,475	3,221	990
90%	3,253	2,327	1,866	0	0	0	0	0	3,633	3,958	3,918	3,519	1,080
100%	4,346	2,995	2,171	0	0	0	0	0	4,193	4,768	4,671	4,435	1,214
Mean	2,209	1,598	878	0	0	0	0	0	2,116	2,414	2,535	2,453	861

Table H1a5-94. 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 SJIE												
C	2,122	1,480	1,127	0	0	0	0	0	1,646	1,826	2,085	1,599
D	2,350	1,653	1,235	0	0	0	0	0	2,098	2,653	2,668	2,025
BN	2,567	1,844	1,044	0	0	0	0	0	2,526	3,555	3,155	2,354
AN	2,416	1,667	1,291	0	0	0	0	0	2,748	3,783	3,303	4,345
W	2,524	1,714	451	0	0	0	0	0	1,840	3,436	3,621	3,973
All	2,415	1,682	950	0	0	0	0	0	2,108	3,066	3,033	2,891
45 no SJIE												
C	2,075	1,433	1,095	0	0	0	0	0	1,604	1,727	1,977	1,555
D	2,310	1,796	1,236	0	0	0	0	0	1,948	2,281	2,379	1,980
BN	2,523	1,814	1,069	0	0	0	0	0	2,607	3,038	2,920	2,118
AN	2,391	1,630	1,277	0	0	0	0	0	2,952	3,577	3,312	3,467
W	2,519	1,741	449	0	0	0	0	0	2,106	3,446	3,674	3,850
All	2,386	1,704	948	0	0	0	0	0	2,189	2,847	2,923	2,685
55 w/WSAs no SJIE												
C	2,050	1,397	1,045	0	0	0	0	0	1,557	1,665	1,877	1,640
D	2,220	1,742	1,266	0	0	0	0	0	1,889	2,178	2,306	2,096
BN	2,438	1,759	1,072	0	0	0	0	0	2,514	3,289	2,948	2,278
AN	2,280	1,577	1,326	0	0	0	0	0	3,123	3,598	3,430	3,908
W	2,497	1,726	454	0	0	0	0	0	1,986	3,621	3,610	3,792
All	2,326	1,665	954	0	0	0	0	0	2,134	2,918	2,891	2,791
55 no SJIE												
C	1,986	1,391	1,027	0	0	0	0	0	1,672	1,642	1,751	1,570
D	2,201	1,775	1,244	0	0	0	0	0	1,997	1,892	2,065	1,956
BN	2,377	1,792	1,086	0	0	0	0	0	2,625	2,522	2,569	2,126
AN	2,316	1,630	1,156	0	0	0	0	0	2,734	3,011	3,267	3,356
W	2,476	1,652	466	0	0	0	0	0	1,849	3,508	3,721	3,773
All	2,297	1,661	932	0	0	0	0	0	2,109	2,598	2,759	2,646
65 no SJIE												
C	1,842	1,353	1,015	0	0	0	0	0	1,794	1,675	1,700	1,569
D	2,074	1,633	1,255	0	0	0	0	0	2,127	1,841	1,827	1,865
BN	2,272	1,728	1,059	0	0	0	0	0	2,253	2,109	2,047	2,027
AN	2,136	1,609	1,119	0	0	0	0	0	2,797	2,484	2,797	2,848
W	2,493	1,617	319	0	0	0	0	0	1,920	3,395	3,704	3,467
All	2,209	1,598	878	0	0	0	0	0	2,116	2,414	2,535	2,453

H1a5.3.2 Georgiana Slough

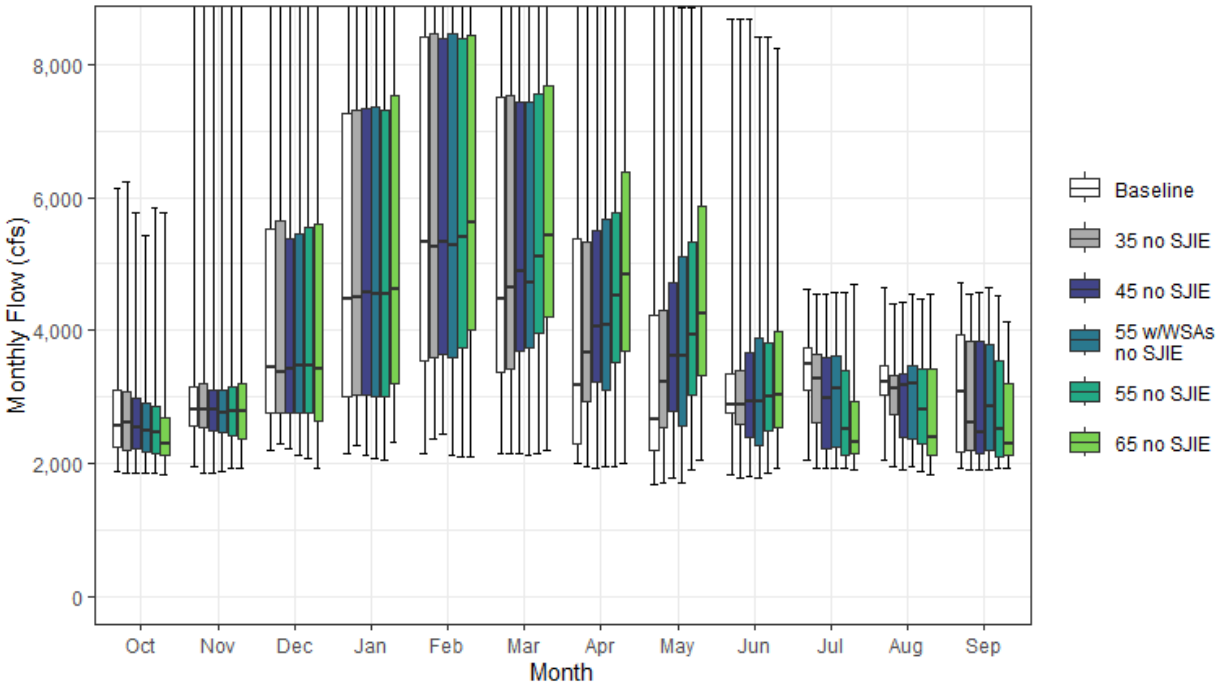

Figure H1a5-48. Georgiana Slough Monthly Boxplot (cfs)

Table H1a5-95. 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 SJIE													
0%	1,848	1,863	2,290	2,276	2,366	2,135	1,962	1,703	1,782	1,920	1,958	1,908	1,547
10%	1,946	2,175	2,576	2,664	2,833	2,784	2,485	2,194	2,226	2,061	2,356	1,943	1,876
25%	2,197	2,542	2,767	3,017	3,583	3,428	2,936	2,544	2,588	2,617	2,723	2,198	2,190
50%	2,603	2,798	3,378	4,509	5,266	4,645	3,670	3,213	2,879	3,279	3,137	2,609	2,583
75%	3,077	3,193	5,644	7,316	8,457	7,525	5,332	4,293	3,385	3,650	3,312	3,849	3,540
90%	3,351	4,234	8,612	9,662	10,373	9,045	8,188	6,665	4,609	3,864	3,645	4,190	4,140
100%	6,244	9,110	11,311	11,830	12,015	11,592	11,012	8,897	8,693	4,543	4,401	4,551	5,299
Mean	2,684	3,086	4,556	5,370	6,055	5,467	4,420	3,775	3,258	3,127	3,063	2,993	2,882
45 no SJIE													
0%	1,855	1,855	2,219	2,123	2,438	2,153	1,926	1,769	1,806	1,918	1,899	1,902	1,550
10%	1,998	2,069	2,523	2,621	2,918	3,013	2,703	2,180	2,206	2,011	2,287	1,936	1,911
25%	2,230	2,480	2,753	3,017	3,638	3,693	3,223	2,782	2,381	2,209	2,397	2,151	2,183
50%	2,528	2,799	3,415	4,568	5,321	4,901	4,063	3,609	2,926	2,976	3,172	2,467	2,640
75%	2,987	3,106	5,390	7,333	8,400	7,438	5,508	4,720	3,667	3,593	3,356	3,837	3,590
90%	3,303	4,073	8,589	9,661	10,327	9,050	8,185	6,733	4,560	3,807	3,599	4,068	4,112
100%	5,760	9,122	11,297	11,829	11,997	11,592	11,008	8,898	8,680	4,547	4,417	4,560	5,300
Mean	2,656	3,067	4,540	5,379	6,084	5,551	4,673	3,989	3,286	2,959	2,979	2,912	2,895
55 w/WSAs no SJIE													
0%	1,853	1,869	2,118	2,074	2,131	2,125	1,942	1,695	1,789	1,932	1,945	1,902	1,504
10%	1,933	2,100	2,411	2,586	2,947	2,898	2,288	2,134	2,191	2,029	2,251	2,020	1,869
25%	2,184	2,467	2,766	2,999	3,580	3,735	3,102	2,552	2,282	2,253	2,373	2,184	2,124
50%	2,478	2,770	3,475	4,551	5,286	4,716	4,081	3,625	2,926	3,120	3,207	2,845	2,628
75%	2,916	3,095	5,444	7,358	8,463	7,439	5,678	5,118	3,880	3,615	3,468	3,788	3,613
90%	3,333	3,834	8,521	9,487	10,250	9,046	8,191	6,695	4,898	3,843	3,611	3,944	4,130
100%	5,429	9,103	11,356	11,824	11,997	11,592	11,004	8,863	8,424	4,560	4,545	4,645	5,307
Mean	2,607	3,026	4,520	5,352	6,071	5,529	4,673	4,006	3,320	3,014	2,993	2,917	2,892
55 no SJIE													
0%	1,842	1,916	2,078	2,055	2,109	2,157	1,963	1,904	1,848	1,932	1,878	1,915	1,535
10%	1,918	2,140	2,385	2,589	2,930	3,223	2,759	2,373	2,207	2,005	2,096	1,936	1,923
25%	2,151	2,425	2,748	3,012	3,749	3,953	3,511	3,031	2,480	2,122	2,306	2,108	2,209
50%	2,464	2,778	3,477	4,551	5,395	5,101	4,533	3,924	2,998	2,514	2,819	2,512	2,661
75%	2,861	3,162	5,545	7,309	8,391	7,562	5,774	5,340	3,822	3,386	3,415	3,531	3,660
90%	3,293	4,012	8,581	9,466	10,303	8,981	8,252	6,861	4,993	3,816	3,613	3,859	4,101
100%	5,846	9,127	11,304	11,827	11,966	11,592	11,002	8,860	8,426	4,560	4,465	4,526	5,298
Mean	2,590	3,062	4,538	5,391	6,140	5,697	4,989	4,276	3,375	2,768	2,853	2,805	2,919
65 no SJIE													
0%	1,841	1,922	1,923	2,330	2,109	2,187	1,996	2,044	1,938	1,914	1,836	1,920	1,612
10%	1,915	2,090	2,269	2,687	2,938	3,174	2,921	2,532	2,239	2,016	2,017	1,938	1,961
25%	2,118	2,365	2,644	3,196	4,009	4,216	3,682	3,317	2,538	2,158	2,119	2,127	2,254
50%	2,284	2,772	3,417	4,614	5,634	5,432	4,847	4,260	3,023	2,311	2,400	2,298	2,688
75%	2,693	3,212	5,612	7,535	8,445	7,693	6,387	5,866	3,994	2,923	3,425	3,207	3,644
90%	3,268	3,985	8,599	9,436	10,258	9,109	8,399	7,289	5,261	3,812	3,754	3,436	4,224
100%	5,766	9,102	11,297	11,815	11,936	11,592	10,993	8,869	8,253	4,701	4,549	4,138	5,255
Mean	2,482	3,034	4,542	5,467	6,238	5,928	5,329	4,611	3,467	2,629	2,720	2,619	2,954

Table H1a5-96. 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 SJIE												
C	2,365	2,440	2,985	3,019	3,279	3,004	2,304	2,118	2,194	2,138	2,337	1,965
D	2,540	2,812	3,606	3,279	4,180	4,054	3,142	2,750	2,594	2,772	2,784	2,291
BN	2,706	2,859	3,472	4,459	5,553	4,741	4,058	3,245	2,973	3,463	3,157	2,543
AN	2,591	3,182	4,253	6,789	7,716	6,991	4,620	4,097	3,169	3,638	3,271	4,069
W	2,982	3,737	6,899	8,165	8,565	7,665	6,637	5,619	4,528	3,499	3,514	3,911
All	2,684	3,086	4,556	5,370	6,055	5,467	4,420	3,775	3,258	3,127	3,063	2,993
45 no SJIE												
C	2,329	2,386	2,946	2,972	3,396	3,172	2,458	2,251	2,157	2,062	2,254	1,931
D	2,509	2,803	3,604	3,294	4,238	4,225	3,503	2,950	2,461	2,487	2,562	2,256
BN	2,672	2,824	3,514	4,476	5,520	4,892	4,468	3,554	3,045	3,067	2,977	2,362
AN	2,571	3,083	4,266	6,838	7,711	6,958	4,870	4,459	3,349	3,480	3,277	4,030
W	2,963	3,770	6,836	8,181	8,577	7,648	6,764	5,767	4,622	3,507	3,554	3,817
All	2,656	3,067	4,540	5,379	6,084	5,551	4,673	3,989	3,286	2,959	2,979	2,912
55 w/WSAs no SJIE												
C	2,310	2,345	2,849	2,912	3,336	3,008	2,262	2,068	2,116	2,015	2,177	1,995
D	2,440	2,742	3,618	3,285	4,221	4,169	3,320	2,716	2,409	2,408	2,506	2,345
BN	2,607	2,760	3,532	4,450	5,518	4,879	4,478	3,563	2,962	3,260	2,998	2,485
AN	2,486	3,018	4,347	6,751	7,683	6,914	5,027	4,652	3,501	3,497	3,368	3,734
W	2,936	3,770	6,769	8,182	8,593	7,729	6,934	6,007	4,786	3,642	3,633	3,775
All	2,607	3,026	4,520	5,352	6,071	5,529	4,673	4,006	3,320	3,014	2,993	2,917
55 no SJIE												
C	2,261	2,337	2,848	2,983	3,453	3,285	2,602	2,418	2,217	1,997	2,081	1,942
D	2,426	2,779	3,628	3,296	4,390	4,486	3,866	3,179	2,505	2,189	2,322	2,238
BN	2,561	2,799	3,547	4,562	5,611	5,099	4,985	3,926	3,060	2,672	2,707	2,368
AN	2,514	3,087	4,359	6,856	7,641	7,034	5,292	4,914	3,481	3,047	3,243	3,311
W	2,934	3,814	6,807	8,149	8,590	7,716	6,967	6,040	4,789	3,555	3,591	3,757
All	2,590	3,062	4,538	5,391	6,140	5,697	4,989	4,276	3,375	2,768	2,853	2,805
65 no SJIE												
C	2,150	2,294	2,861	3,185	3,536	3,472	2,794	2,636	2,325	2,023	2,042	1,941
D	2,328	2,790	3,685	3,372	4,610	4,833	4,071	3,468	2,620	2,150	2,139	2,168
BN	2,480	2,726	3,486	4,672	5,680	5,416	5,452	4,252	3,156	2,355	2,307	2,292
AN	2,376	3,073	4,290	6,939	7,700	7,291	5,876	5,295	3,546	2,643	2,882	2,922
W	2,817	3,788	6,837	8,134	8,641	7,821	7,308	6,455	4,863	3,473	3,705	3,396
All	2,482	3,034	4,542	5,467	6,238	5,928	5,329	4,611	3,467	2,629	2,720	2,619

H1a5.3.3 San Joaquin River at Jersey Point (QWEST)

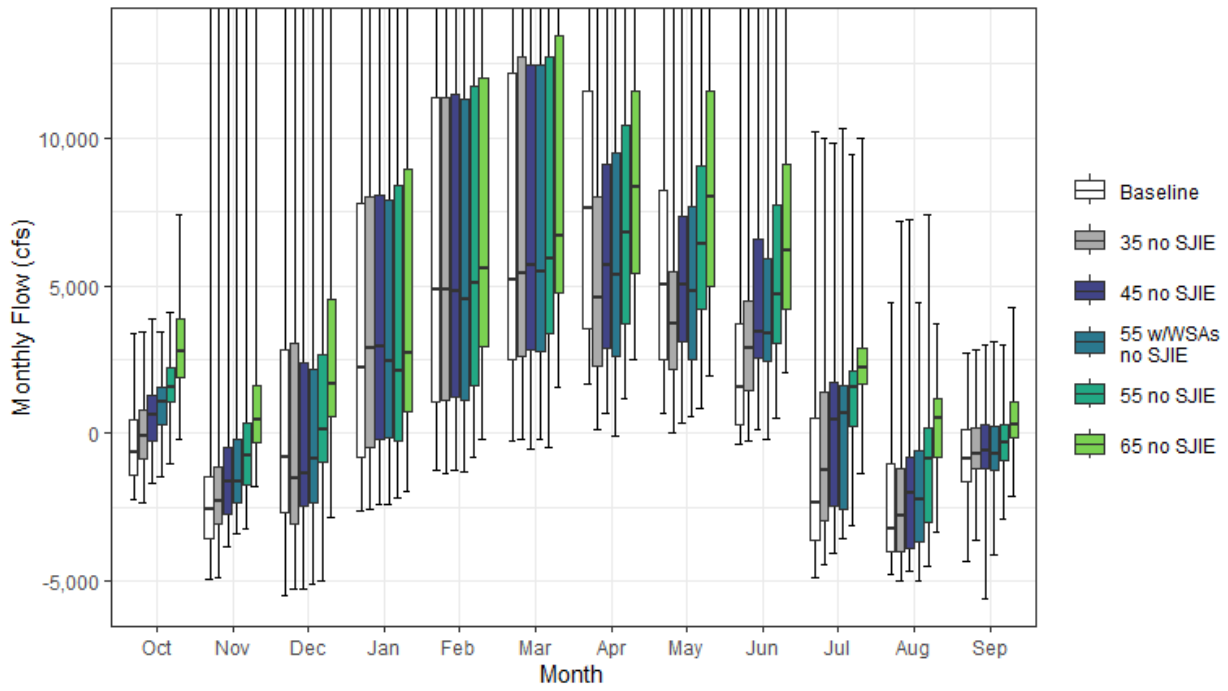

Figure H1a5-49. San Joaquin River at Jersey Point (QWEST) Monthly Boxplot (cfs)

Table H1a5-97. 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 SJIE													
0%	-2,316	-4,847	-5,234	-2,561	-1,359	-203	136	23	-227	-4,429	-4,953	-3,586	-707
10%	-1,303	-4,019	-4,088	-1,591	-483	463	1,543	1,016	170	-3,457	-4,275	-1,916	-152
25%	-847	-3,058	-3,027	-484	1,115	2,610	2,257	2,167	1,479	-2,960	-4,014	-1,190	347
50%	-64	-2,298	-1,487	2,896	4,876	5,392	4,582	3,698	2,907	-1,251	-2,754	-680	980
75%	795	-1,113	3,052	7,987	11,326	12,747	7,987	5,472	4,469	1,399	-1,173	209	3,155
90%	1,595	115	9,094	15,833	21,080	18,729	15,600	11,777	9,737	1,867	508	737	5,560
100%	3,421	16,196	28,153	75,254	57,257	63,146	37,260	26,901	25,291	9,957	7,156	2,828	15,751
Mean	122	-1,806	1,312	5,827	8,293	8,379	6,842	5,123	4,005	-674	-2,319	-638	2,057
45 no SJIE													
0%	-1,689	-3,850	-5,277	-2,414	-1,251	-500	682	337	125	-4,026	-4,645	-5,565	-471
10%	-759	-3,217	-2,999	-1,687	-303	1,060	2,156	2,015	1,498	-3,255	-4,102	-1,609	156
25%	-245	-2,703	-2,430	-213	1,232	2,830	2,887	3,087	2,540	-2,443	-3,870	-1,160	635
50%	643	-1,614	-1,364	2,965	4,832	5,666	5,714	5,015	3,428	489	-2,004	-583	1,352
75%	1,304	-495	2,395	8,055	11,472	12,433	9,110	7,311	6,576	1,710	-780	277	3,414
90%	2,195	233	9,102	15,809	20,896	18,685	15,857	11,859	9,753	2,157	655	833	5,795
100%	3,855	16,019	28,122	75,244	57,236	63,121	37,248	26,988	25,266	9,813	7,225	2,967	15,731
Mean	646	-1,256	1,526	5,897	8,450	8,546	7,577	6,188	5,010	79	-1,884	-550	2,406
55 w/WSAs no SJIE													
0%	-1,473	-3,396	-5,073	-2,421	-1,284	-202	-86	599	-185	-3,558	-4,976	-4,099	-102
10%	-599	-2,836	-3,183	-1,537	-382	949	1,752	1,687	1,771	-3,084	-4,165	-2,238	342
25%	323	-2,346	-2,327	-116	1,140	2,759	2,606	2,518	2,472	-2,569	-3,646	-1,262	632
50%	1,068	-1,639	-867	2,431	4,537	5,463	5,373	4,834	3,399	659	-2,204	-690	1,305
75%	1,549	-217	2,182	7,914	11,312	12,432	9,486	7,675	5,884	1,644	-576	260	3,494
90%	2,172	269	9,115	15,821	20,760	18,849	15,923	12,339	10,245	2,378	1,638	909	5,872
100%	3,426	16,008	28,076	75,236	57,211	63,130	37,318	26,944	25,076	10,287	4,405	3,095	15,468
Mean	912	-1,050	1,672	5,866	8,314	8,447	7,337	6,081	4,967	127	-1,774	-654	2,408
55 no SJIE													
0%	-1,007	-3,231	-4,963	-2,174	-806	-477	1,182	866	501	-3,121	-4,491	-2,896	-49
10%	-244	-2,293	-2,497	-1,453	396	2,197	2,962	2,361	2,110	-2,335	-3,636	-1,600	760
25%	1,081	-1,709	-978	-229	1,594	3,357	3,726	4,198	3,044	245	-2,998	-882	1,147
50%	1,564	-758	132	2,133	5,090	5,899	6,789	6,427	4,697	1,549	-846	-313	2,027
75%	2,206	349	2,648	8,404	11,727	12,724	10,403	9,031	7,728	2,090	212	326	3,937
90%	2,974	1,442	8,975	15,954	20,892	18,846	16,290	12,454	10,837	3,309	1,610	1,310	6,127
100%	4,091	16,262	28,130	75,227	57,697	63,110	37,292	26,921	25,216	9,441	7,389	2,968	15,771
Mean	1,541	-342	2,323	5,873	8,729	9,071	8,483	7,239	5,926	1,287	-1,087	-211	2,927
65 no SJIE													
0%	-170	-1,767	-2,834	-1,927	-178	1,583	2,513	1,926	2,035	-1,354	-3,341	-2,104	1,027
10%	859	-852	-564	-719	2,007	3,391	4,301	3,186	2,954	1,308	-2,495	-1,002	1,513
25%	1,874	-313	558	750	2,953	4,750	5,393	4,999	4,182	1,682	-810	-160	1,918
50%	2,782	474	1,690	2,721	5,595	6,656	8,303	8,004	6,166	2,210	548	300	2,977
75%	3,900	1,641	4,510	8,953	12,032	13,436	11,593	11,574	9,102	2,887	1,206	1,092	4,846
90%	4,612	3,053	9,240	15,962	21,803	19,109	17,268	15,372	12,356	4,880	1,701	2,145	6,711
100%	7,400	19,585	30,650	75,280	60,829	64,467	38,296	28,758	25,559	10,001	3,699	4,246	16,873
Mean	2,827	1,050	3,652	6,380	9,484	9,863	9,818	8,795	7,182	2,600	130	495	3,740

Table H1a5-98. 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 SJIE												
C	702	-1,494	-1,434	236	853	1,015	2,118	1,944	2,351	884	-661	413
D	79	-2,201	-1,726	-122	2,174	3,490	2,253	2,261	1,863	-1,147	-2,723	-945
BN	159	-2,059	-1,068	2,292	5,959	5,780	5,061	3,852	2,165	-2,681	-3,877	-1,803
AN	-6	-1,446	856	8,612	11,240	10,730	6,349	4,929	3,307	-1,642	-3,936	-522
W	-128	-1,666	6,695	14,297	17,046	16,596	14,053	9,800	7,903	499	-1,274	-282
All	122	-1,806	1,312	5,827	8,293	8,379	6,842	5,123	4,005	-674	-2,319	-638
45 no SJIE												
C	1,021	-1,194	-1,048	614	1,437	1,352	2,505	2,506	2,700	1,207	-182	455
D	546	-1,555	-1,220	-279	2,309	3,809	3,302	3,598	3,203	185	-1,839	-921
BN	745	-1,591	-854	2,387	6,113	6,056	6,023	5,354	3,486	-984	-3,045	-1,278
AN	646	-970	1,050	8,721	11,395	10,747	7,413	6,226	4,445	-1,392	-3,824	-999
W	455	-971	6,611	14,336	16,996	16,553	14,466	10,564	8,756	660	-1,313	-174
All	646	-1,256	1,526	5,897	8,450	8,546	7,577	6,188	5,010	79	-1,884	-550
55 w/WSAs no SJIE												
C	1,034	-962	-547	543	852	1,162	2,356	1,938	2,542	1,581	444	114
D	1,109	-1,346	-1,102	-59	2,161	3,518	2,282	3,346	2,972	566	-1,636	-1,315
BN	876	-1,502	-640	2,320	6,017	5,858	5,808	4,521	3,332	-1,909	-3,195	-1,658
AN	1,019	-528	863	8,430	11,284	10,551	7,334	6,539	4,513	-1,382	-3,728	326
W	681	-804	6,677	14,271	17,074	16,745	14,671	11,100	8,941	924	-1,377	-336
All	912	-1,050	1,672	5,866	8,314	8,447	7,337	6,081	4,967	127	-1,774	-654
55 no SJIE												
C	1,622	-560	239	142	1,448	2,518	3,364	3,038	3,041	1,537	932	408
D	1,513	-392	-207	-55	2,841	4,409	4,390	4,913	4,062	1,546	-811	-579
BN	1,651	-906	62	2,327	6,639	6,473	7,105	6,718	5,382	859	-1,952	-953
AN	1,716	-23	1,659	8,814	11,480	11,003	8,776	7,618	5,886	893	-2,912	1,496
W	1,378	41	6,988	14,345	17,155	16,858	14,970	11,363	9,191	1,392	-1,090	-483
All	1,541	-342	2,323	5,873	8,729	9,071	8,483	7,239	5,926	1,287	-1,087	-211
65 no SJIE												
C	2,666	368	1,272	940	2,669	3,559	4,028	3,393	3,364	1,541	1,248	529
D	2,714	653	1,342	667	4,070	5,588	6,493	5,882	4,669	1,926	660	293
BN	2,424	580	1,559	2,914	7,448	7,358	8,813	8,457	6,461	2,523	421	-30
AN	3,316	1,408	3,771	9,046	11,561	11,652	10,015	9,726	8,012	3,454	-107	2,619
W	3,055	1,858	7,895	14,599	17,548	17,232	15,902	13,653	11,185	3,366	-943	107
All	2,827	1,050	3,652	6,380	9,484	9,863	9,818	8,795	7,182	2,600	130	495

H1a5.3.4 Old and Middle Rivers Net Flow

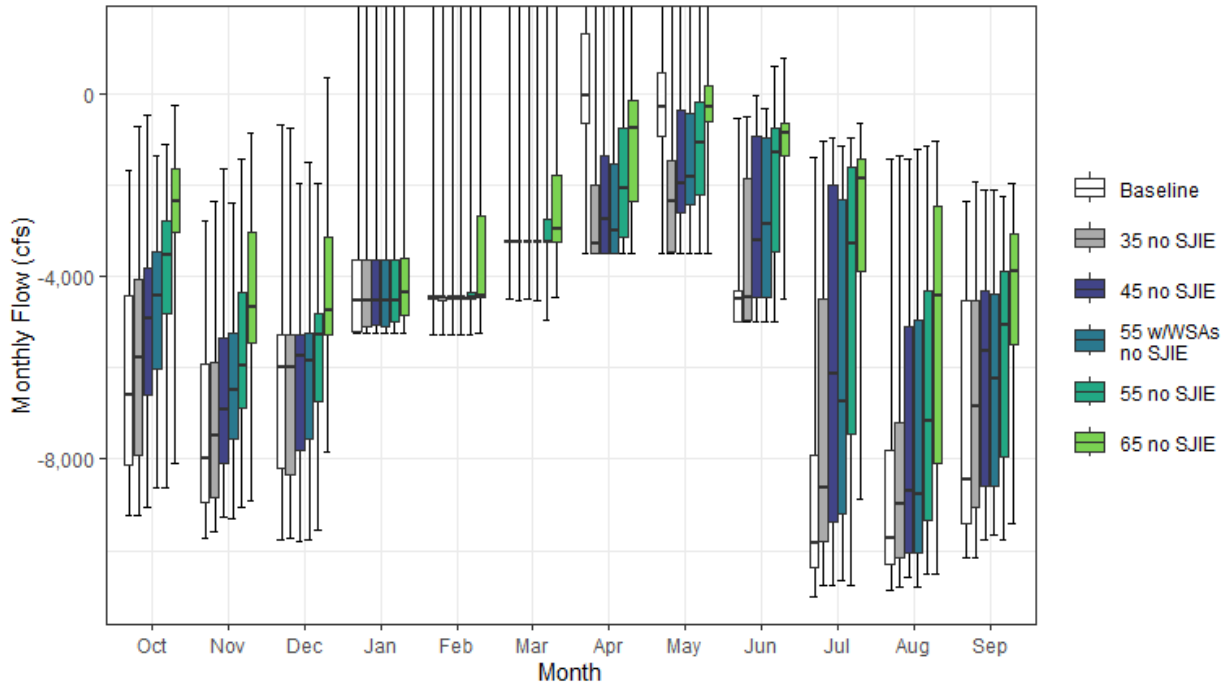

Figure H1a5-50. Old and Middle Rivers Net Flow Monthly Boxplot (cfs)

Table H1a5-99. 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 SJIE													
0%	-9,246	-9,587	-9,725	-5,242	-5,268	-4,516	-3,500	-3,500	-5,000	-10,764	-10,811	-10,150	-4,874
10%	-8,515	-9,210	-9,465	-5,242	-5,000	-3,513	-3,500	-3,500	-5,000	-10,256	-10,412	-9,356	-4,584
25%	-7,914	-8,845	-8,353	-5,091	-4,544	-3,258	-3,500	-3,444	-4,962	-9,796	-10,143	-9,058	-4,312
50%	-5,777	-7,476	-5,987	-4,516	-4,464	-3,258	-3,290	-2,348	-4,457	-8,631	-8,981	-6,834	-3,952
75%	-4,076	-5,890	-5,269	-3,645	-4,448	-3,232	-2,007	-1,477	-1,857	-4,509	-7,215	-4,520	-3,137
90%	-2,710	-3,702	-4,804	-3,138	-3,725	-2,530	-161	-424	-899	-1,496	-4,860	-2,880	-2,342
100%	-712	-2,347	-732	19,185	6,098	16,822	7,514	3,509	-505	-1,042	-1,354	-1,913	-220
Mean	-5,695	-7,045	-6,570	-4,049	-4,108	-2,942	-2,482	-2,202	-3,496	-7,137	-8,368	-6,575	-3,669
45 no SJIE													
0%	-9,051	-9,283	-9,796	-5,242	-5,268	-4,505	-3,500	-3,500	-5,000	-10,763	-10,573	-9,777	-4,792
10%	-8,175	-8,842	-8,924	-5,242	-5,000	-3,500	-3,500	-3,493	-4,873	-10,187	-10,302	-9,194	-4,400
25%	-6,609	-8,082	-7,825	-5,075	-4,483	-3,258	-3,486	-2,618	-4,465	-9,392	-10,054	-8,598	-4,126
50%	-4,918	-6,930	-5,758	-4,516	-4,464	-3,258	-2,748	-1,973	-3,192	-6,115	-8,702	-5,621	-3,527
75%	-3,820	-5,341	-5,266	-3,641	-4,428	-3,232	-1,356	-371	-941	-1,997	-5,108	-4,299	-2,702
90%	-2,699	-3,117	-4,656	-3,187	-3,353	-2,288	-365	-51	-732	-1,430	-4,569	-2,823	-2,098
100%	-456	-1,631	-1,979	19,185	6,098	16,797	7,505	3,488	-31	-974	-1,410	-2,092	-249
Mean	-5,162	-6,519	-6,347	-4,009	-3,998	-2,933	-2,205	-1,646	-2,777	-6,024	-7,726	-6,166	-3,357
55 w/WSAs no SJIE													
0%	-8,626	-9,293	-9,774	-5,242	-5,268	-4,516	-3,500	-3,500	-5,000	-10,653	-10,811	-9,671	-4,657
10%	-8,136	-8,329	-9,022	-5,233	-5,000	-3,500	-3,500	-3,485	-4,554	-10,041	-10,400	-9,212	-4,246
25%	-6,008	-7,570	-7,575	-5,084	-4,483	-3,258	-3,500	-2,440	-4,441	-9,214	-10,069	-8,589	-3,887
50%	-4,438	-6,476	-5,839	-4,516	-4,464	-3,258	-2,980	-1,836	-2,864	-6,725	-8,759	-6,242	-3,343
75%	-3,465	-5,258	-5,254	-3,637	-4,440	-3,234	-1,531	-418	-949	-2,311	-4,959	-4,395	-2,853
90%	-2,429	-3,212	-4,019	-2,438	-3,803	-2,448	-86	-63	-722	-1,443	-4,072	-3,048	-2,092
100%	-1,367	-2,395	-1,507	19,185	6,071	16,806	7,638	3,501	-331	-1,128	-1,201	-2,101	-200
Mean	-4,802	-6,232	-6,175	-3,964	-4,050	-2,909	-2,261	-1,614	-2,707	-6,045	-7,575	-6,297	-3,302
55 no SJIE													
0%	-8,626	-9,057	-9,538	-5,242	-5,268	-4,942	-3,500	-3,500	-5,000	-10,763	-10,510	-9,775	-4,444
10%	-7,907	-8,252	-7,753	-5,235	-4,982	-3,258	-3,494	-3,196	-4,499	-9,241	-10,102	-9,056	-4,111
25%	-4,814	-6,891	-6,724	-5,000	-4,483	-3,258	-3,147	-2,197	-3,464	-7,445	-9,326	-7,966	-3,749
50%	-3,515	-5,943	-5,290	-4,516	-4,464	-3,251	-2,071	-1,074	-1,296	-3,267	-7,160	-5,063	-2,767
75%	-2,786	-4,336	-4,830	-3,642	-4,360	-2,739	-763	-167	-758	-1,590	-4,324	-3,870	-2,162
90%	-2,069	-2,856	-3,385	-3,425	-2,508	-1,719	-60	219	-539	-1,400	-2,722	-2,837	-1,779
100%	-1,101	-1,428	-1,980	19,185	6,581	16,787	7,502	3,478	591	-961	-1,144	-2,234	-251
Mean	-4,212	-5,621	-5,589	-4,066	-3,868	-2,683	-1,831	-1,178	-2,093	-4,479	-6,669	-5,662	-2,897
65 no SJIE													
0%	-8,080	-8,909	-7,851	-5,242	-5,253	-4,470	-3,500	-3,500	-4,500	-8,894	-10,508	-9,402	-3,732
10%	-6,950	-6,317	-6,292	-5,215	-4,483	-3,258	-3,492	-1,683	-2,700	-7,312	-9,652	-8,508	-3,381
25%	-3,042	-5,468	-5,290	-4,863	-4,464	-3,257	-2,352	-605	-1,367	-3,874	-8,101	-5,481	-2,746
50%	-2,349	-4,673	-4,728	-4,351	-4,420	-2,969	-758	-271	-860	-1,866	-4,426	-3,902	-2,063
75%	-1,628	-3,015	-3,132	-3,608	-2,685	-1,792	-145	194	-647	-1,441	-2,469	-3,070	-1,625
90%	-1,126	-1,789	-2,209	-2,289	-1,611	-975	261	861	-284	-1,223	-1,865	-2,641	-1,393
100%	-236	-846	364	19,185	9,982	18,063	8,435	4,824	775	-660	-1,033	-1,945	530
Mean	-2,876	-4,322	-4,360	-3,731	-3,384	-2,268	-1,099	-313	-1,187	-2,971	-5,117	-4,590	-2,186

Table H1a5-100. 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 SJIE												
C	-4,349	-5,308	-5,972	-3,792	-4,372	-3,562	-1,277	-836	-1,473	-2,387	-4,485	-2,811
D	-5,364	-6,786	-7,501	-4,635	-4,678	-3,281	-3,074	-2,038	-3,053	-5,859	-7,557	-4,954
BN	-5,822	-6,992	-6,776	-4,497	-4,579	-3,239	-3,164	-2,161	-4,180	-9,016	-9,599	-6,534
AN	-5,603	-7,191	-6,878	-4,173	-4,035	-3,150	-3,275	-3,033	-4,497	-9,046	-10,186	-8,877
W	-6,611	-8,136	-5,952	-3,424	-3,280	-2,092	-1,940	-2,744	-4,066	-8,655	-9,529	-8,877
All	-5,695	-7,045	-6,570	-4,049	-4,108	-2,942	-2,482	-2,202	-3,496	-7,137	-8,368	-6,575
45 no SJIE												
C	-3,985	-4,939	-5,556	-3,392	-3,959	-3,446	-1,165	-564	-1,080	-1,937	-3,859	-2,702
D	-4,879	-6,292	-7,052	-4,796	-4,666	-3,247	-2,614	-1,220	-1,633	-4,011	-6,250	-4,831
BN	-5,210	-6,497	-6,646	-4,439	-4,453	-3,237	-2,882	-1,339	-3,247	-6,585	-8,402	-5,567
AN	-4,964	-6,547	-6,690	-4,170	-3,903	-3,194	-2,750	-2,471	-3,929	-8,392	-9,998	-8,294
W	-6,047	-7,532	-5,924	-3,424	-3,279	-2,132	-1,812	-2,399	-3,764	-8,377	-9,535	-8,521
All	-5,162	-6,519	-6,347	-4,009	-3,998	-2,933	-2,205	-1,646	-2,777	-6,024	-7,726	-6,166
55 w/WSAs no SJIE												
C	-3,923	-4,650	-4,959	-3,411	-4,404	-3,366	-829	-499	-979	-1,472	-3,121	-3,146
D	-4,213	-5,957	-6,935	-4,574	-4,689	-3,300	-3,094	-919	-1,603	-3,461	-5,951	-5,373
BN	-4,930	-6,276	-6,443	-4,450	-4,476	-3,278	-2,870	-1,894	-3,097	-7,833	-8,586	-6,149
AN	-4,416	-6,055	-6,958	-4,152	-3,902	-3,189	-2,883	-2,316	-4,100	-8,408	-10,147	-7,203
W	-5,777	-7,321	-5,783	-3,429	-3,182	-2,034	-1,778	-2,261	-3,635	-8,302	-9,471	-8,388
All	-4,802	-6,232	-6,175	-3,964	-4,050	-2,909	-2,261	-1,614	-2,707	-6,045	-7,575	-6,297
55 no SJIE												
C	-3,293	-4,273	-4,240	-3,846	-4,059	-2,544	-615	-351	-931	-1,484	-2,455	-2,769
D	-3,841	-5,165	-6,147	-4,605	-4,365	-3,037	-2,125	-434	-1,007	-2,117	-4,787	-4,481
BN	-4,157	-5,809	-5,838	-4,589	-4,165	-3,187	-2,578	-692	-1,671	-4,066	-6,804	-5,227
AN	-3,844	-5,609	-6,073	-4,157	-3,854	-3,193	-2,110	-1,952	-2,701	-5,355	-9,008	-5,133
W	-5,156	-6,561	-5,549	-3,421	-3,220	-1,974	-1,680	-2,164	-3,532	-7,718	-9,276	-8,557
All	-4,212	-5,621	-5,589	-4,066	-3,868	-2,683	-1,831	-1,178	-2,093	-4,479	-6,669	-5,662
65 no SJIE												
C	-2,119	-3,357	-3,298	-3,318	-3,090	-1,797	-277	-333	-873	-1,563	-2,095	-2,662
D	-2,565	-4,146	-4,813	-4,078	-3,590	-2,362	-553	-17	-750	-1,684	-2,989	-3,530
BN	-3,301	-4,388	-4,416	-4,234	-3,663	-2,784	-1,669	321	-567	-1,873	-3,713	-4,195
AN	-2,120	-4,323	-4,008	-4,124	-3,977	-3,032	-1,711	-713	-1,039	-2,166	-5,574	-3,115
W	-3,540	-4,925	-4,700	-3,219	-2,974	-1,818	-1,332	-761	-2,129	-5,683	-8,994	-7,237
All	-2,876	-4,322	-4,360	-3,731	-3,384	-2,268	-1,099	-313	-1,187	-2,971	-5,117	-4,590

H1a5.3.5 Jones Pumping Plant (CVP)

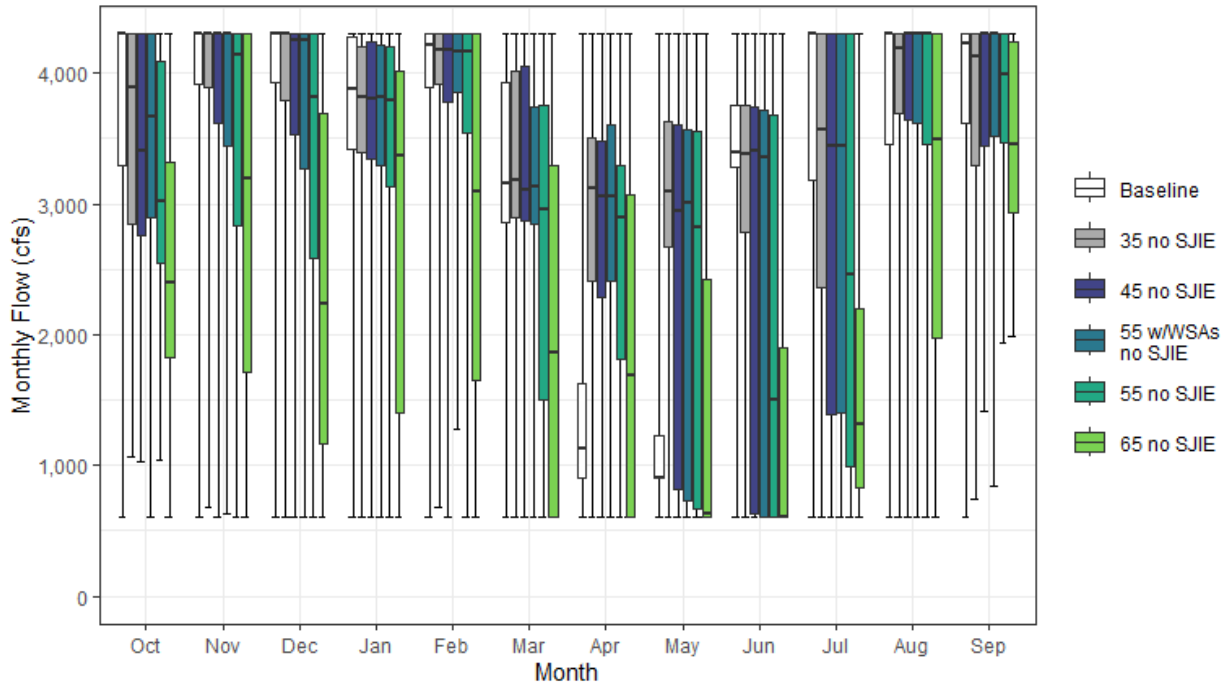

Figure H1a5-51. Jones Pumping Plant (CVP) Monthly Boxplot (cfs)

Table H1a5-101. 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 SJIE													
0%	1,065	681	607	600	678	600	600	600	600	600	603	748	1,078
10%	2,009	2,047	2,919	2,521	3,638	2,120	1,646	732	610	726	3,003	2,359	1,770
25%	2,842	3,890	3,793	3,397	3,910	2,897	2,415	2,666	2,783	2,358	3,693	3,294	2,339
50%	3,894	4,298	4,297	3,813	4,181	3,187	3,116	3,100	3,378	3,569	4,189	4,129	2,652
75%	4,299	4,300	4,298	4,204	4,297	4,016	3,505	3,628	3,751	4,299	4,300	4,300	2,801
90%	4,300	4,300	4,300	4,298	4,298	4,297	4,266	4,111	4,299	4,300	4,300	4,300	2,984
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	3,057
Mean	3,487	3,812	3,898	3,600	3,983	3,230	2,936	2,896	2,951	3,170	3,812	3,702	2,502
45 no SJIE													
0%	1,033	600	600	600	600	600	600	600	600	600	603	1,411	1,011
10%	2,184	1,789	2,682	2,488	2,830	1,711	869	639	602	652	2,618	2,680	1,596
25%	2,762	3,613	3,529	3,340	3,774	2,875	2,288	814	636	1,392	3,639	3,438	2,163
50%	3,408	4,298	4,257	3,803	4,172	3,103	3,055	2,947	3,405	3,447	4,299	4,297	2,623
75%	4,298	4,298	4,298	4,241	4,297	4,058	3,485	3,602	3,745	4,299	4,300	4,300	2,767
90%	4,300	4,300	4,299	4,298	4,298	4,298	4,231	4,112	4,298	4,300	4,300	4,300	2,956
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	3,030
Mean	3,357	3,733	3,791	3,544	3,831	3,169	2,830	2,607	2,683	2,906	3,788	3,780	2,414
55 w/WSAs no SJIE													
0%	607	635	600	600	1,275	600	600	600	600	600	604	839	903
10%	2,038	1,443	1,566	2,373	3,298	1,562	609	609	604	605	2,688	2,753	1,648
25%	2,890	3,441	3,271	3,298	3,848	2,843	2,411	730	610	1,404	3,620	3,511	2,127
50%	3,662	4,298	4,257	3,819	4,162	3,131	3,061	3,012	3,361	3,444	4,298	4,298	2,480
75%	4,298	4,298	4,298	4,219	4,297	3,740	3,599	3,564	3,721	4,299	4,300	4,300	2,785
90%	4,299	4,300	4,300	4,297	4,298	4,297	4,298	4,133	4,299	4,300	4,300	4,300	2,948
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	3,101
Mean	3,413	3,632	3,595	3,538	3,914	3,110	2,866	2,543	2,542	2,844	3,733	3,782	2,383
55 no SJIE													
0%	1,046	600	600	600	600	600	600	600	600	600	607	1,933	825
10%	1,942	1,705	1,518	1,808	1,750	601	600	600	600	619	2,020	2,732	1,294
25%	2,543	2,838	2,583	3,131	3,541	1,501	1,813	669	610	998	3,453	3,467	1,722
50%	3,021	4,142	3,812	3,786	4,168	2,956	2,891	2,826	1,504	2,462	4,298	3,993	2,254
75%	4,095	4,298	4,297	4,204	4,297	3,750	3,297	3,548	3,683	4,298	4,300	4,300	2,779
90%	4,299	4,299	4,298	4,298	4,298	4,298	4,298	4,136	4,298	4,300	4,300	4,300	2,925
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	3,025
Mean	3,158	3,461	3,320	3,451	3,587	2,669	2,600	2,279	2,203	2,491	3,607	3,767	2,207
65 no SJIE													
0%	600	600	600	600	600	600	600	600	600	600	602	1,986	840
10%	1,270	1,345	754	604	819	600	600	600	600	607	1,368	2,578	1,059
25%	1,824	1,716	1,168	1,402	1,651	605	601	600	600	828	1,980	2,929	1,245
50%	2,402	3,198	2,238	3,371	3,098	1,859	1,685	636	609	1,317	3,486	3,458	1,654
75%	3,323	4,297	3,697	4,014	4,297	3,288	3,069	2,424	1,902	2,204	4,300	4,239	2,153
90%	4,297	4,298	4,298	4,297	4,298	4,298	4,298	3,135	3,482	4,298	4,300	4,300	2,557
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	2,970
Mean	2,572	2,910	2,356	2,813	2,823	2,082	1,920	1,436	1,345	1,823	3,109	3,455	1,727

Table H1a5-102. 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 SJIE												
C	3,116	3,082	3,589	2,854	3,624	2,605	1,399	1,089	910	1,135	2,778	2,520
D	3,497	3,832	4,112	3,522	4,034	2,781	2,915	2,494	2,345	2,766	3,711	3,915
BN	3,750	3,887	3,753	3,652	3,953	3,362	3,085	3,031	3,248	3,253	3,841	3,505
AN	3,196	3,835	3,773	3,837	4,144	3,631	3,436	3,419	3,723	3,727	4,112	3,837
W	3,627	4,132	4,048	3,929	4,091	3,649	3,477	3,860	3,986	4,277	4,300	4,248
All	3,487	3,812	3,898	3,600	3,983	3,230	2,936	2,896	2,951	3,170	3,812	3,702
45 no SJIE												
C	3,083	2,869	3,322	2,514	2,995	2,345	1,358	846	752	903	2,311	2,407
D	3,322	3,724	3,862	3,525	3,931	2,769	2,704	1,908	1,621	2,049	3,930	4,076
BN	3,403	3,842	3,709	3,636	3,840	3,343	2,977	2,510	2,869	3,022	3,942	4,006
AN	3,176	3,646	3,564	3,846	4,144	3,659	3,101	3,236	3,706	3,591	3,973	3,603
W	3,570	4,166	4,133	3,929	4,074	3,594	3,507	3,868	3,965	4,254	4,300	4,223
All	3,357	3,733	3,791	3,544	3,831	3,169	2,830	2,607	2,683	2,906	3,788	3,780
55 w/WSAs no SJIE												
C	2,803	2,456	2,765	2,527	3,645	2,219	915	674	612	750	2,184	3,155
D	3,325	3,686	3,679	3,468	3,962	2,805	2,991	1,436	1,333	2,137	3,823	3,952
BN	3,671	3,848	3,439	3,664	3,815	3,350	3,054	2,843	2,731	2,726	3,861	3,602
AN	3,146	3,465	3,670	3,846	4,143	3,607	3,212	3,273	3,725	3,590	4,070	3,670
W	3,747	4,149	4,046	3,925	3,991	3,459	3,557	3,868	3,864	4,257	4,278	4,152
All	3,413	3,632	3,595	3,538	3,914	3,110	2,866	2,543	2,542	2,844	3,733	3,782
55 no SJIE												
C	2,740	2,666	2,446	2,570	2,792	1,476	869	607	638	738	1,684	2,621
D	2,926	3,272	3,250	3,140	3,379	2,214	2,445	1,109	874	1,377	3,708	3,901
BN	3,287	3,612	3,182	3,536	3,449	2,403	2,820	1,963	1,715	2,131	3,891	4,047
AN	3,046	3,508	3,031	3,846	4,142	3,505	2,635	3,154	3,087	3,163	3,804	3,589
W	3,516	3,908	4,038	3,937	4,029	3,475	3,483	3,879	3,968	4,203	4,300	4,173
All	3,158	3,461	3,320	3,451	3,587	2,669	2,600	2,279	2,203	2,491	3,607	3,767
65 no SJIE												
C	2,501	2,690	1,950	2,031	1,789	1,059	611	616	605	911	1,547	2,674
D	2,395	2,693	2,290	2,515	2,175	1,163	822	604	611	1,164	2,459	3,553
BN	2,694	3,061	2,093	2,497	2,739	1,913	2,025	887	649	1,305	2,789	3,564
AN	2,249	3,079	1,862	3,538	3,909	2,920	2,707	2,178	1,357	1,740	3,987	2,878
W	2,792	3,024	2,986	3,357	3,467	3,072	3,041	2,532	2,713	3,155	4,269	3,960
All	2,572	2,910	2,356	2,813	2,823	2,082	1,920	1,436	1,345	1,823	3,109	3,455

H1a5.3.6 Banks Pumping Plant (SWP)

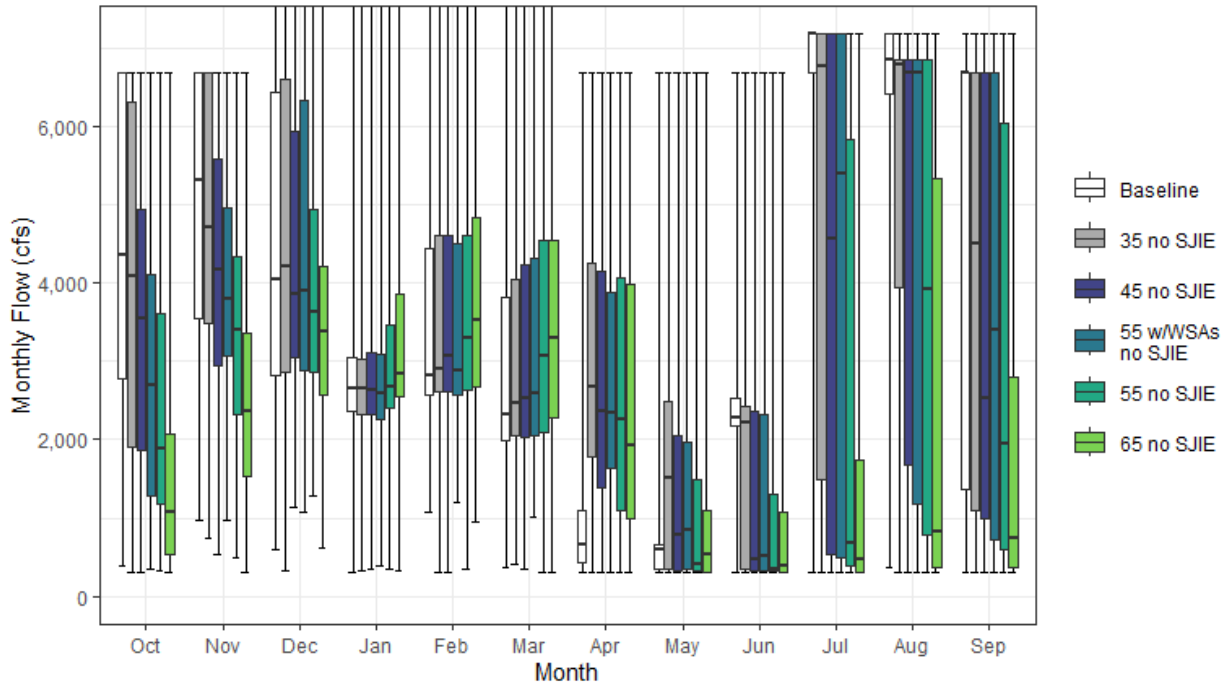

Figure H1a5-52. Banks Pumping Plant (SWP) Monthly Boxplot (cfs)

Table H1a5-103. 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 SJIE													
0%	309	737	332	334	311	406	300	301	301	302	305	310	792
10%	871	2,053	2,298	1,864	2,418	1,924	1,050	324	326	307	1,186	478	1,335
25%	1,896	3,493	2,871	2,321	2,609	2,055	1,777	341	341	1,497	3,950	1,094	1,740
50%	4,082	4,703	4,207	2,643	2,909	2,475	2,664	1,518	2,215	6,766	6,789	4,503	2,765
75%	6,318	6,680	6,610	3,032	4,600	4,042	4,261	2,492	2,427	7,180	6,855	6,680	3,444
90%	6,680	6,680	7,068	4,045	6,671	6,791	5,862	4,640	5,180	7,180	7,180	6,680	4,038
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	5,037
Mean	3,987	4,699	4,561	2,894	3,751	3,233	3,054	1,905	2,123	4,878	5,349	4,004	2,684
45 no SJIE													
0%	306	535	1,146	356	305	351	300	300	300	301	311	311	772
10%	754	1,832	2,613	1,864	2,399	1,924	775	318	318	308	598	545	1,131
25%	1,861	2,938	3,040	2,314	2,617	2,032	1,377	335	332	526	1,669	981	1,526
50%	3,548	4,163	3,868	2,637	3,069	2,520	2,360	786	470	4,558	6,680	2,531	2,431
75%	4,947	5,588	5,942	3,106	4,613	4,233	4,140	2,046	2,358	7,180	6,855	6,680	3,250
90%	6,680	6,680	7,041	4,141	6,671	6,145	5,674	4,650	5,179	7,180	7,180	6,680	3,621
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	5,068
Mean	3,543	4,210	4,419	2,917	3,784	3,284	2,854	1,588	1,618	3,942	4,675	3,475	2,434
55 w/WSAs no SJIE													
0%	351	978	1,076	380	1,194	1,020	301	306	300	300	300	301	817
10%	693	2,095	2,527	1,382	2,329	1,937	735	325	323	307	655	369	1,186
25%	1,288	3,059	2,890	2,256	2,575	2,044	1,638	337	331	502	1,176	714	1,514
50%	2,693	3,795	3,901	2,599	2,872	2,587	2,344	852	510	5,394	6,680	3,399	2,445
75%	4,114	4,965	6,320	3,082	4,505	4,310	3,888	1,976	2,311	7,180	6,855	6,680	3,145
90%	6,680	6,680	7,041	3,976	6,671	6,425	5,276	4,501	5,016	7,180	7,180	6,680	3,622
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	5,023
Mean	3,108	4,018	4,436	2,876	3,758	3,317	2,833	1,585	1,679	4,061	4,576	3,617	2,406
55 no SJIE													
0%	323	484	1,291	338	348	301	300	300	300	300	300	305	650
10%	628	1,381	2,486	2,075	2,358	1,921	487	306	302	304	329	389	1,045
25%	1,172	2,322	2,857	2,404	2,633	2,091	1,101	325	322	378	778	596	1,295
50%	1,886	3,396	3,626	2,680	3,306	3,078	2,259	409	339	671	3,921	1,940	1,841
75%	3,602	4,330	4,941	3,458	4,607	4,549	4,058	1,489	1,295	5,830	6,855	6,036	2,970
90%	6,680	6,560	7,002	4,331	6,671	6,031	5,121	4,648	4,752	7,180	6,884	6,680	3,441
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	2,711	3,513	4,060	3,081	3,887	3,510	2,678	1,404	1,358	2,688	3,724	2,926	2,143
65 no SJIE													
0%	303	303	617	319	939	302	303	300	300	300	300	301	549
10%	329	872	1,918	2,185	2,001	1,640	510	300	300	301	306	308	890
25%	540	1,532	2,566	2,550	2,682	2,274	981	310	301	307	375	359	1,102
50%	1,072	2,360	3,388	2,843	3,516	3,293	1,926	525	388	480	828	734	1,384
75%	2,077	3,357	4,202	3,848	4,827	4,550	3,992	1,093	1,072	1,735	5,333	2,795	2,479
90%	5,611	5,277	6,569	4,999	7,825	6,804	5,495	4,677	3,970	6,949	6,855	6,680	3,423
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	1,805	2,660	3,717	3,384	4,126	3,643	2,554	1,283	1,239	1,724	2,558	2,070	1,852

Table H1a5-104. 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 SJIE												
C	2,639	3,160	3,525	2,089	2,504	2,474	981	413	595	903	1,582	672
D	3,553	4,237	4,952	2,434	2,583	2,187	1,915	776	1,156	3,263	4,186	1,730
BN	3,881	4,554	4,561	2,464	3,551	2,395	2,916	1,123	1,771	6,328	6,401	3,962
AN	4,024	4,793	4,916	2,775	3,754	3,134	3,560	2,333	2,341	6,334	6,940	6,319
W	5,076	5,913	4,685	3,982	5,398	4,977	4,881	3,852	3,783	6,682	6,908	6,549
All	3,987	4,699	4,561	2,894	3,751	3,233	3,054	1,905	2,123	4,878	5,349	4,004
45 no SJIE												
C	2,280	2,961	3,343	2,001	2,691	2,606	899	358	359	634	1,368	673
D	3,201	3,830	4,703	2,603	2,672	2,161	1,608	472	344	1,987	2,552	1,425
BN	3,568	4,067	4,451	2,446	3,531	2,411	2,714	742	1,140	3,940	5,005	2,379
AN	3,360	4,252	4,917	2,757	3,606	3,153	3,335	1,903	1,742	5,769	6,875	5,932
W	4,525	5,227	4,567	3,998	5,415	5,074	4,708	3,473	3,477	6,410	6,908	6,182
All	3,543	4,210	4,419	2,917	3,784	3,284	2,854	1,588	1,618	3,942	4,675	3,475
55 w/WSAs no SJIE												
C	2,502	3,067	3,234	1,997	2,529	2,645	982	451	364	310	720	399
D	2,482	3,531	4,761	2,423	2,667	2,183	1,764	591	598	1,345	2,335	2,153
BN	3,006	3,822	4,514	2,431	3,577	2,449	2,559	945	1,117	5,627	5,285	3,422
AN	2,813	3,926	5,139	2,771	3,607	3,200	3,270	1,658	1,908	5,839	6,940	4,669
W	4,072	5,042	4,509	4,001	5,389	5,104	4,604	3,294	3,438	6,352	6,882	6,109
All	3,108	4,018	4,436	2,876	3,758	3,317	2,833	1,585	1,679	4,061	4,576	3,617
55 no SJIE												
C	1,873	2,465	2,778	2,433	3,002	2,485	797	363	315	304	484	520
D	2,479	3,071	4,320	2,800	2,894	2,486	1,329	408	413	623	1,190	1,182
BN	2,535	3,538	4,099	2,721	3,611	3,297	2,531	571	590	2,108	3,327	1,954
AN	2,280	3,356	4,746	2,765	3,557	3,307	3,116	1,410	1,032	2,912	5,972	2,480
W	3,611	4,444	4,254	3,989	5,395	5,024	4,589	3,214	3,222	5,752	6,663	6,282
All	2,711	3,513	4,060	3,081	3,887	3,510	2,678	1,404	1,358	2,688	3,724	2,926
65 no SJIE												
C	846	1,462	2,269	2,428	2,955	2,082	684	334	301	304	337	407
D	1,552	2,517	3,857	2,871	3,252	2,796	1,243	465	398	372	508	486
BN	2,181	2,579	3,680	3,388	3,770	3,344	2,323	511	460	557	1,097	1,309
AN	1,154	2,439	3,757	3,085	3,937	3,714	2,606	1,000	964	869	2,073	977
W	2,523	3,544	4,394	4,387	5,693	5,257	4,638	2,991	2,960	4,553	6,365	5,038
All	1,805	2,660	3,717	3,384	4,126	3,643	2,554	1,283	1,239	1,724	2,558	2,070

H1a5.4 Interbasin Diversions

H1a5.4.1 Bowman-Spaulding Conduit

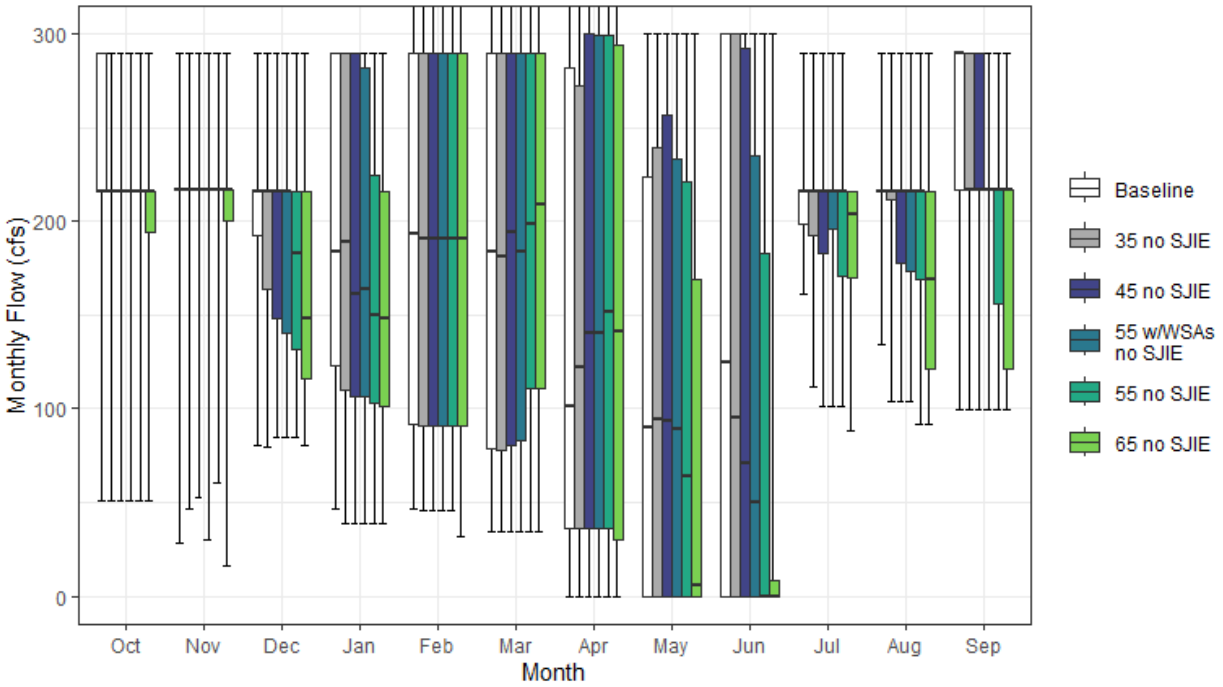

Figure H1a5-53. Bowman-Spaulding Conduit Monthly Boxplot (cfs)

Table H1a5-105. 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 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	82
25%	216	217	164	110	91	78	36	0	0	192	211	217	99
50%	216	217	216	189	191	181	123	94	96	216	216	217	130
75%	216	217	216	290	290	290	273	240	300	216	216	290	176
90%	290	217	290	290	314	292	302	300	300	216	290	290	195
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	219	217	202	185	191	177	145	122	137	206	216	223	135
45 no SJIE													
0%	51	52	85	39	45	34	0	0	0	101	104	100	65
10%	108	186	112	67	73	47	0	0	0	161	134	100	79
25%	216	217	148	106	91	80	36	0	0	183	177	217	96
50%	216	217	216	161	191	194	140	94	71	216	216	217	127
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	195	179	190	179	153	121	123	200	213	217	132
55 w/WSAs no 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	312	291	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	202	206	211	131
55 no 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	198	125
65 no SJIE													
0%	51	16	81	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	319	300	300	169	216	216	217	170
100%	290	290	290	290	325	325	325	300	300	216	290	290	190
Mean	188	203	163	162	187	188	150	84	38	187	172	179	115

Table H1a5-106. 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 SJIE												
C	191	219	176	107	95	93	10	0	1	199	154	139
D	214	209	192	144	129	104	62	26	42	199	191	188
BN	237	217	190	164	159	147	103	100	131	208	217	231
AN	207	200	201	206	226	196	197	191	192	184	235	259
W	231	229	232	261	294	287	285	245	261	223	261	274
All	219	217	202	185	191	177	145	122	137	206	216	223
45 no 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	179	152	156	154	123	90	105	201	209	230
AN	200	201	204	198	226	193	215	177	178	186	229	247
W	231	224	226	256	295	289	291	252	251	207	260	264
All	211	212	195	179	190	179	153	121	123	200	213	217
55 w/WSAs no 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	292	288	291	242	224	210	240	243
All	212	212	192	177	189	179	153	116	116	202	206	211
55 no 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	234	241
All	205	209	179	172	188	181	156	107	85	195	197	198
65 no 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	195	203	150	139	152	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	193	220	217
All	188	203	163	162	187	188	150	84	38	187	172	179

H1a5.4.2 Drum Canal

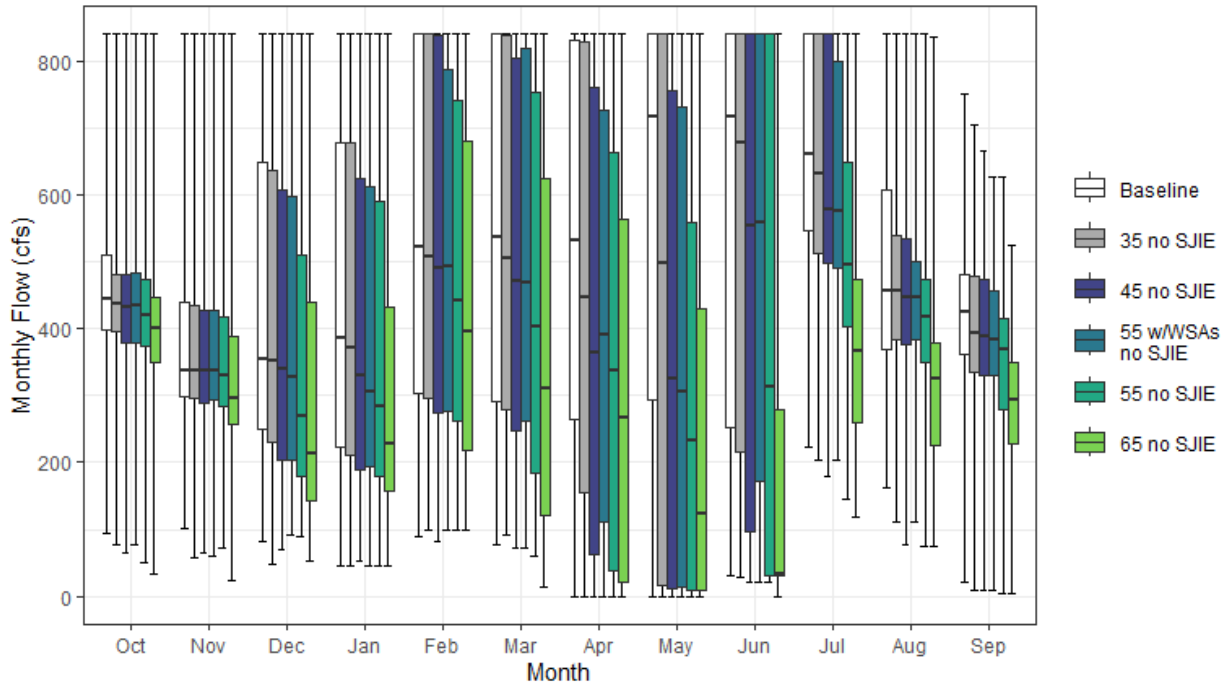

Figure H1a5-54. Drum Canal Monthly Boxplot (cfs)

Table H1a5-107. 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 SJIE													
0%	78	58	48	45	98	91	0	0	29	203	112	9	86
10%	348	267	147	121	171	186	6	5	33	265	202	234	157
25%	395	295	230	210	295	279	154	16	215	512	383	335	228
50%	438	337	351	370	508	504	447	497	677	632	455	393	349
75%	482	435	637	678	840	837	827	840	840	840	538	479	465
90%	567	656	840	840	840	840	840	840	840	840	795	549	514
100%	840	840	840	840	840	840	840	840	840	840	840	704	565
Mean	442	395	427	436	519	512	452	462	549	624	483	387	343
45 no SJIE													
0%	64	64	69	54	82	72	0	0	22	178	77	9	83
10%	314	253	144	106	168	141	0	3	31	256	210	181	145
25%	378	290	203	189	274	247	63	11	97	497	376	330	205
50%	431	336	340	330	490	472	364	326	553	579	447	387	322
75%	481	426	606	624	837	804	760	756	840	840	533	474	457
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	505	589	464	378	324
55 w/WSAs no SJIE													
0%	77	59	91	44	98	72	0	0	22	203	112	9	86
10%	340	258	142	106	165	146	0	6	33	272	213	236	154
25%	378	292	204	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	403	417	509	489	413	374	507	585	445	371	322
55 no SJIE													
0%	50	73	89	44	98	60	0	0	20	146	75	5	76
10%	257	242	130	102	153	120	0	0	31	216	164	141	124
25%	373	284	178	180	262	184	39	9	32	402	349	280	171
50%	421	329	268	283	442	402	336	233	312	496	416	369	281
75%	472	418	510	589	740	754	662	557	840	649	473	416	418
90%	564	549	840	840	840	840	840	840	840	840	560	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	409	343	291
65 no 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	218	121	22	9	31	259	226	228	135
50%	401	296	213	228	397	310	267	123	33	365	325	294	212
75%	447	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	528
Mean	387	338	318	330	446	383	324	249	192	381	309	269	237

Table H1a5-108. 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 SJIE												
C	419	335	283	176	282	253	39	29	173	349	258	182
D	409	367	335	257	384	330	259	178	360	509	382	352
BN	437	345	307	369	410	462	431	465	580	667	464	393
AN	424	387	451	565	613	645	614	731	669	689	523	445
W	488	485	637	698	776	764	762	790	821	803	674	494
All	442	395	427	436	519	512	452	462	549	624	483	387
45 no 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	294	340	399	441	363	302	553	605	436	395
AN	413	382	429	541	602	629	578	564	647	659	507	437
W	483	476	625	682	777	752	749	758	808	771	643	479
All	431	385	410	420	509	488	405	382	505	589	464	378
55 w/WSAs no 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	337	291	340	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	748	732	579	445
All	432	384	403	417	509	489	413	374	507	585	445	371
55 no 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	326	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	660	765	736	727	690	747	718	546	440
All	418	369	368	388	485	446	370	315	395	512	409	343
65 no 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	387	302	224	233	344	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	387	338	318	330	446	383	324	249	192	381	309	269

H1a5.4.3 Hell Hole Tunnel

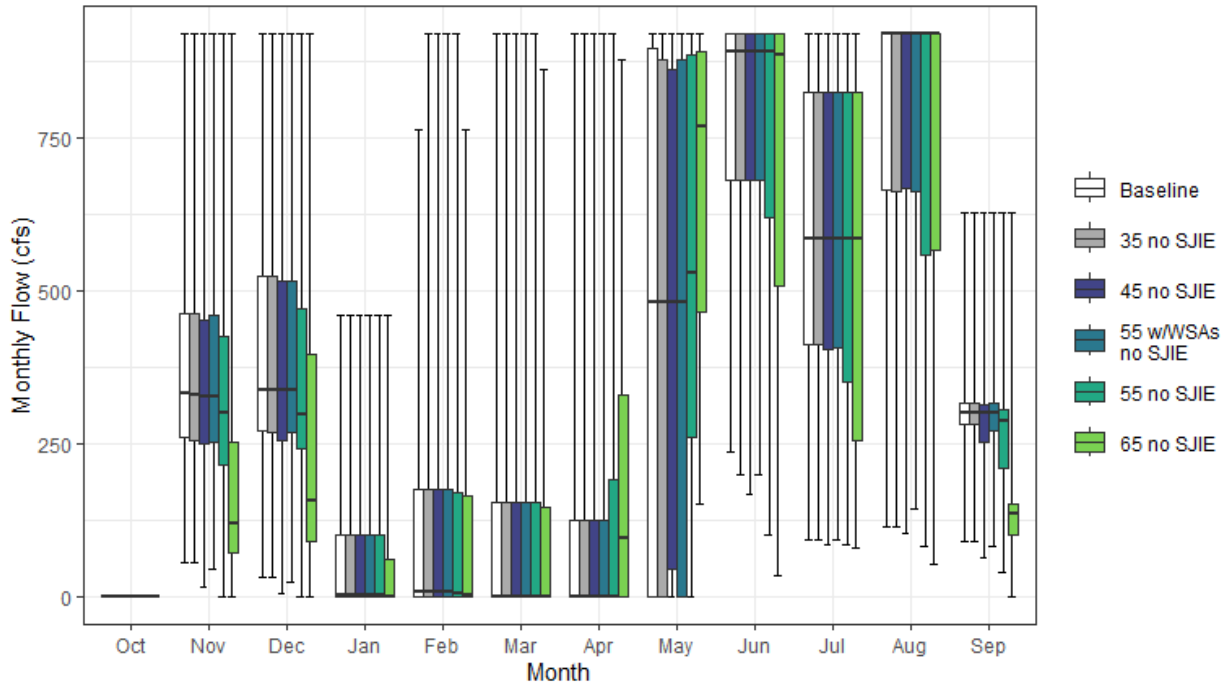

Figure H1a5-55. Hell Hole Tunnel Monthly Boxplot (cfs)

Table H1a5-109. 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 SJIE													
0%	0	55	32	0	0	0	0	0	198	93	114	90	48
10%	0	175	215	0	0	0	0	0	401	290	281	176	118
25%	0	255	268	0	0	0	0	0	680	411	663	280	167
50%	0	329	337	1	6	0	0	480	890	584	920	300	245
75%	0	463	524	99	174	153	124	878	920	825	920	315	318
90%	0	676	904	245	297	388	486	920	920	884	920	396	377
100%	0	920	920	460	920	920	920	920	920	920	920	627	511
Mean	0	381	431	68	104	104	121	464	773	600	765	297	249
45 no 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	254	0	0	0	0	45	680	404	667	252	168
50%	0	327	337	1	6	0	0	480	892	584	920	299	244
75%	0	450	516	99	174	153	124	862	920	825	920	314	317
90%	0	654	882	245	297	388	486	920	920	884	920	393	372
100%	0	920	920	460	920	920	920	920	920	920	920	627	507
Mean	0	373	420	68	104	105	121	473	771	598	764	289	248
55 w/WSAs no 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	892	584	920	300	245
75%	0	459	516	99	174	153	124	877	920	825	920	315	317
90%	0	666	863	245	297	388	486	920	920	884	920	396	374
100%	0	920	920	460	920	920	920	920	920	920	920	627	511
Mean	0	380	426	68	104	105	121	466	772	599	764	295	248
55 no 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	557	209	164
50%	0	300	298	1	4	0	0	528	890	584	920	287	241
75%	0	425	469	99	169	153	190	885	920	825	920	304	315
90%	0	650	882	245	297	388	486	920	920	884	920	323	365
100%	0	920	920	460	920	920	920	920	920	920	920	627	503
Mean	0	341	388	66	101	104	133	542	754	582	744	252	243
65 no 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	45	106
25%	0	70	91	0	0	0	0	464	507	255	567	100	156
50%	0	119	157	0	1	0	95	768	887	584	920	135	215
75%	0	253	394	60	165	146	330	890	920	825	920	151	290
90%	0	552	817	234	294	388	498	920	920	884	920	167	339
100%	0	920	920	460	764	862	878	920	920	920	920	627	477
Mean	0	216	278	57	93	103	190	676	714	539	723	129	226

Table H1a5-110. 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 SJIE												
C	0	285	310	2	0	0	0	15	469	287	336	265
D	0	376	323	27	24	7	15	183	702	466	689	300
BN	0	365	368	48	67	34	52	442	820	618	872	312
AN	0	368	421	72	167	91	112	702	882	672	920	261
W	0	453	619	144	217	279	311	828	914	824	920	316
All	0	381	431	68	104	104	121	464	773	600	765	297
45 no SJIE												
C	0	274	299	2	0	0	0	63	459	279	337	253
D	0	367	311	27	24	7	15	188	699	464	686	294
BN	0	363	363	48	67	34	52	449	822	617	868	309
AN	0	344	408	72	167	91	112	698	881	672	920	251
W	0	449	606	144	217	282	311	825	914	824	920	307
All	0	373	420	68	104	105	121	473	771	598	764	289
55 w/WSAs no SJIE												
C	0	281	308	2	0	0	0	22	467	286	336	262
D	0	376	320	27	24	7	15	185	701	466	689	300
BN	0	362	365	48	67	34	52	444	820	617	867	311
AN	0	364	417	72	167	91	112	706	882	672	920	259
W	0	455	609	144	217	282	311	827	913	824	920	314
All	0	380	426	68	104	105	121	466	772	599	764	295
55 no SJIE												
C	0	212	237	2	0	0	52	244	411	235	305	194
D	0	330	276	27	24	7	27	348	668	429	628	248
BN	0	340	347	46	65	34	60	463	813	610	861	294
AN	0	328	362	72	154	91	112	718	881	672	920	223
W	0	423	588	138	211	281	307	824	913	824	920	271
All	0	341	388	66	101	104	133	542	754	582	744	252
65 no SJIE												
C	0	134	147	2	3	6	193	513	312	159	227	101
D	0	199	168	21	22	7	140	618	591	335	600	125
BN	0	187	216	46	62	34	119	592	783	571	847	160
AN	0	213	233	62	135	90	121	702	877	662	920	112
W	0	291	487	118	197	273	297	848	912	823	920	132
All	0	216	278	57	93	103	190	676	714	539	723	129

H1a5.4.4 Jenkinson Lake Camino Conduit

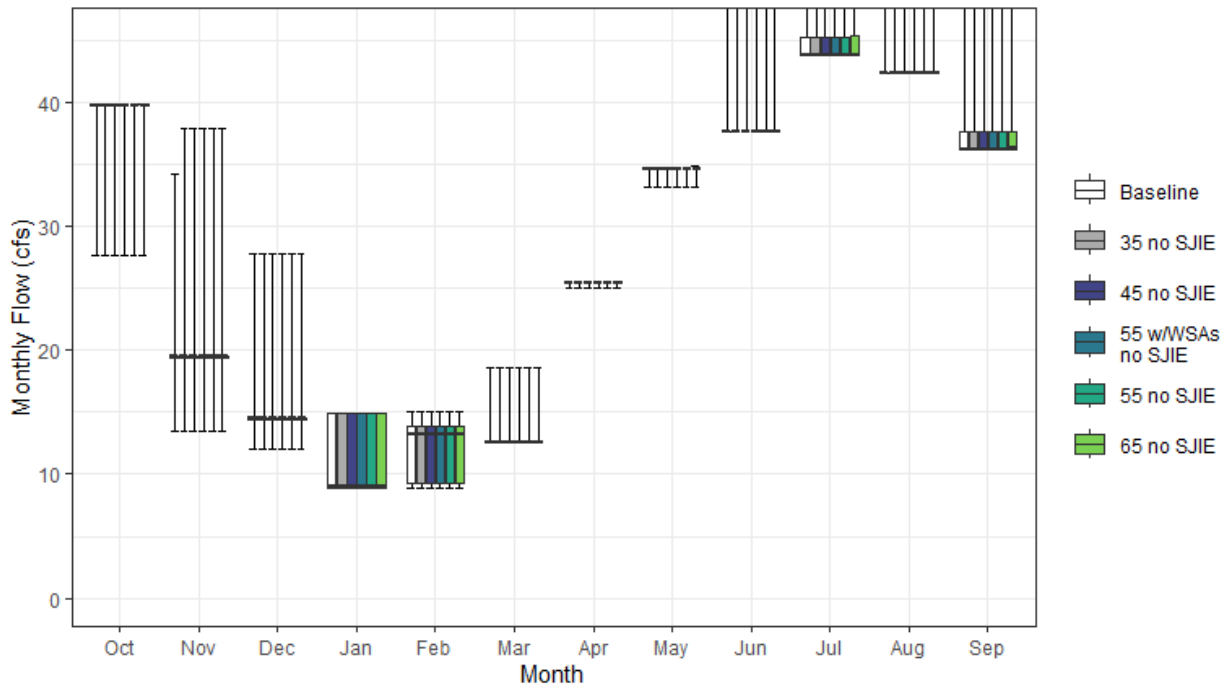

Figure H1a5-56. Jenkinson Lake Camino Conduit Monthly Boxplot (cfs)

Table H1a5-111. 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 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 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 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 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 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 H1a5-112. 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 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 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 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 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 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

H1a5.4.5 Milton-Bowman Tunnel

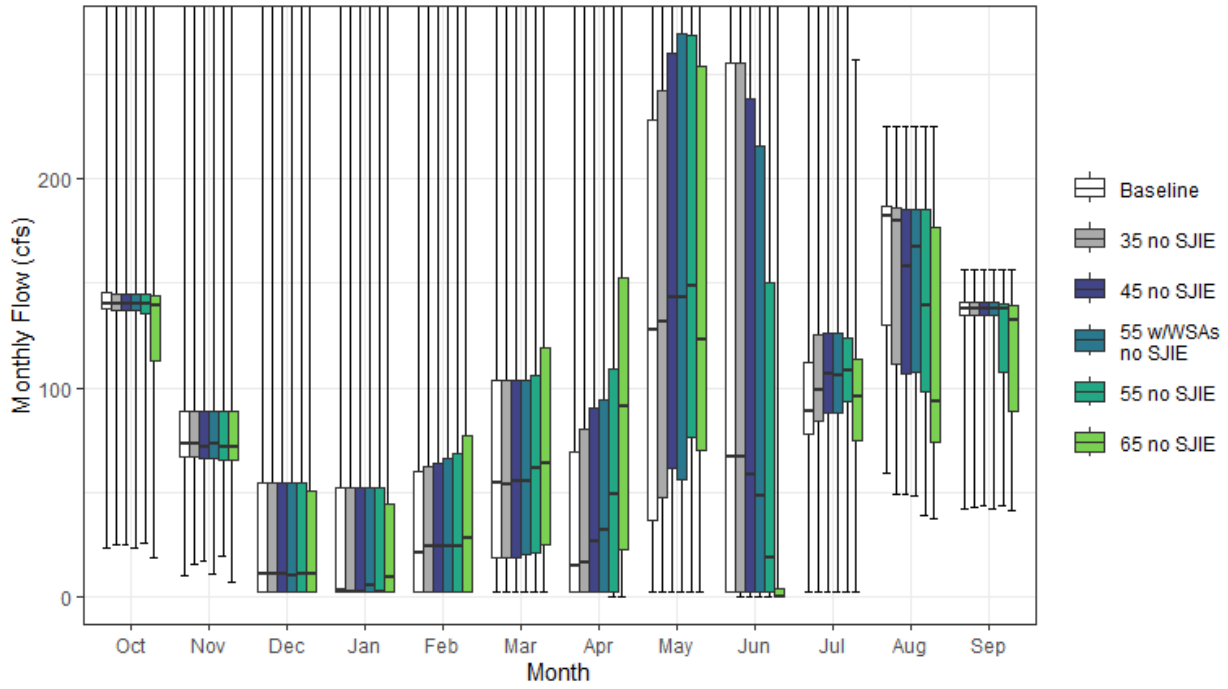

Figure H1a5-57. Milton-Bowman Tunnel Monthly Boxplot (cfs)

Table H1a5-113. 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 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	118
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 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 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	216	126	186	141	94
90%	155	127	144	125	105	140	165	380	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 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 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 H1a5-114. 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 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	115	83	260	305	145	186	141
All	138	91	47	45	51	69	49	158	142	111	152	127
45 no 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 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	237	146	182	140
All	137	91	47	45	52	71	60	165	115	114	147	126
55 no 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 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

H1a5.4.6 Toadtown Canal

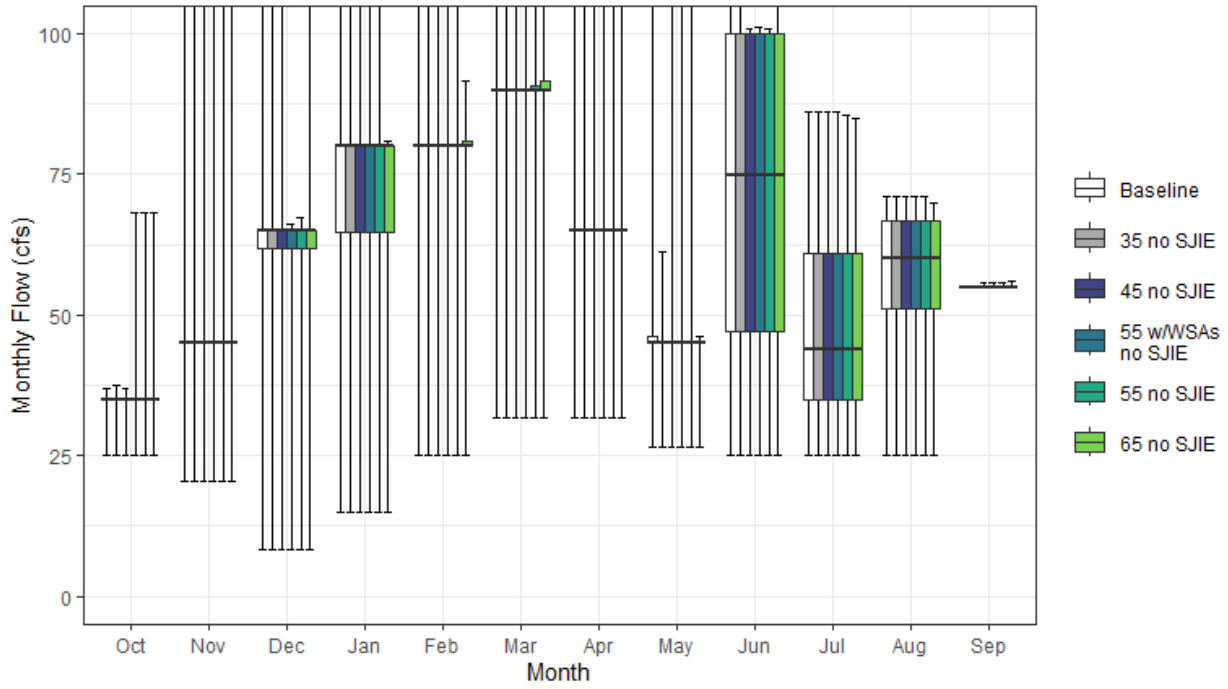

Figure H1a5-58. Toadtown Canal Monthly Boxplot (cfs)

Table H1a5-115. 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 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	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	66	46	100	84	70	55	49
100%	38	109	113	117	120	127	119	61	113	86	71	55	54
Mean	35	44	59	71	79	90	65	45	72	50	58	55	43
45 no 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	55
Mean	35	44	58	70	77	90	65	45	72	49	58	55	43
55 w/WSAs no 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	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	65	46	100	84	70	55	49
100%	68	109	66	117	120	127	119	119	101	86	71	56	58
Mean	35	46	58	71	78	90	65	45	72	50	58	55	43
55 no 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	54	65	80	82	92	65	46	100	84	70	55	49
100%	68	109	67	117	120	127	119	119	101	86	71	56	54
Mean	35	47	58	70	78	90	65	45	72	49	58	55	43
65 no 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	92	65	45	100	61	67	55	47
90%	35	64	65	80	84	94	65	45	100	84	70	55	49
100%	68	109	113	81	92	127	119	46	119	85	70	56	56
Mean	35	48	58	69	78	90	65	44	72	49	58	55	43

Table H1a5-116. 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 SJIE												
C	35	39	44	51	69	80	60	42	42	31	43	55
D	35	45	58	62	76	90	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	45	71	43	58	55
AN	34	43	63	76	83	90	65	45	81	50	61	55
W	35	47	68	84	85	94	69	45	97	72	67	55
All	35	44	59	71	79	90	65	45	72	50	58	55
45 no SJIE												
C	34	40	44	51	69	80	60	41	42	31	43	55
D	35	46	58	62	76	89	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	46	71	43	58	55
AN	34	43	63	76	80	90	65	45	81	50	61	55
W	35	47	66	83	81	95	67	48	97	72	67	55
All	35	44	58	70	77	90	65	45	72	49	58	55
55 w/WSAs no SJIE												
C	35	39	44	51	69	80	60	42	42	31	43	55
D	35	49	58	62	76	90	65	45	55	37	54	55
BN	35	43	54	73	78	90	65	45	71	43	58	55
AN	34	50	63	75	83	93	65	45	81	50	61	55
W	36	47	65	84	83	94	67	47	97	72	67	55
All	35	46	58	71	78	90	65	45	72	50	58	55
55 no SJIE												
C	34	39	44	51	69	80	60	41	42	31	43	55
D	35	52	58	62	77	90	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	45	70	43	58	55
AN	34	50	63	75	80	90	65	45	81	50	61	55
W	36	49	65	81	82	96	67	47	97	72	67	55
All	35	47	58	70	78	90	65	45	72	49	58	55
65 no SJIE												
C	34	40	44	51	70	81	60	41	42	31	43	55
D	34	52	57	62	78	91	65	45	55	37	54	55
BN	35	44	54	73	78	92	65	45	71	43	58	55
AN	34	49	62	75	81	91	65	45	81	50	61	55
W	36	52	66	79	81	92	67	45	99	72	67	55
All	35	48	58	69	78	90	65	44	72	49	58	55

H1a5.4.7 Slate Creek Tunnel

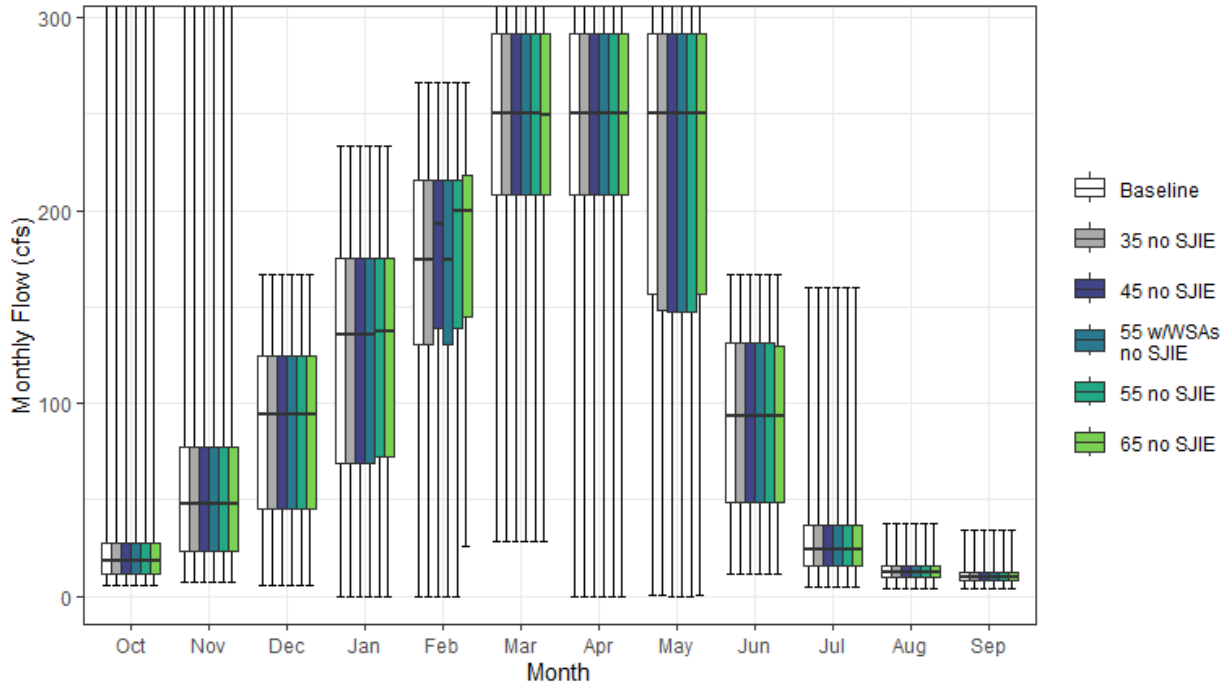

Figure H1a5-59. Slate Creek Tunnel Monthly Boxplot (cfs)

Table H1a5-117. 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 SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	71	139	149	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	134
Mean	27	78	88	126	168	236	237	210	91	32	13	11	79
45 no SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	73	139	149	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	193	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	134
Mean	27	78	88	125	170	235	237	210	91	32	13	11	79
55 w/WSAs no SJIE													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	71	139	149	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%	437	470	167	233	267	333	333	333	167	160	38	34	134
Mean	27	78	88	125	168	236	237	210	91	32	13	11	79
55 no 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	200	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 SJIE													
0%	5	8	6	0	26	29	0	0	12	5	4	4	13
10%	8	15	28	44	75	139	148	81	27	13	8	7	50
25%	11	24	46	72	145	208	208	156	49	16	10	8	67
50%	19	48	94	137	200	250	250	250	93	24	12	10	78
75%	28	77	125	175	218	292	292	292	129	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	128	172	237	234	216	91	32	13	11	80

Table H1a5-118. 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 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	245	241	130	56	18	14
All	27	78	88	126	168	236	237	210	91	32	13	11
45 no 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	173	210	273	245	241	130	56	18	14
All	27	78	88	125	170	235	237	210	91	32	13	11
55 w/WSAs no 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	173	203	276	245	241	130	56	18	14
All	27	78	88	125	168	236	237	210	91	32	13	11
55 no 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 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	28	14	12
W	40	123	128	181	218	279	234	263	130	56	18	14
All	27	78	88	128	172	237	234	216	91	32	13	11

H1a5.4.8 South Canal

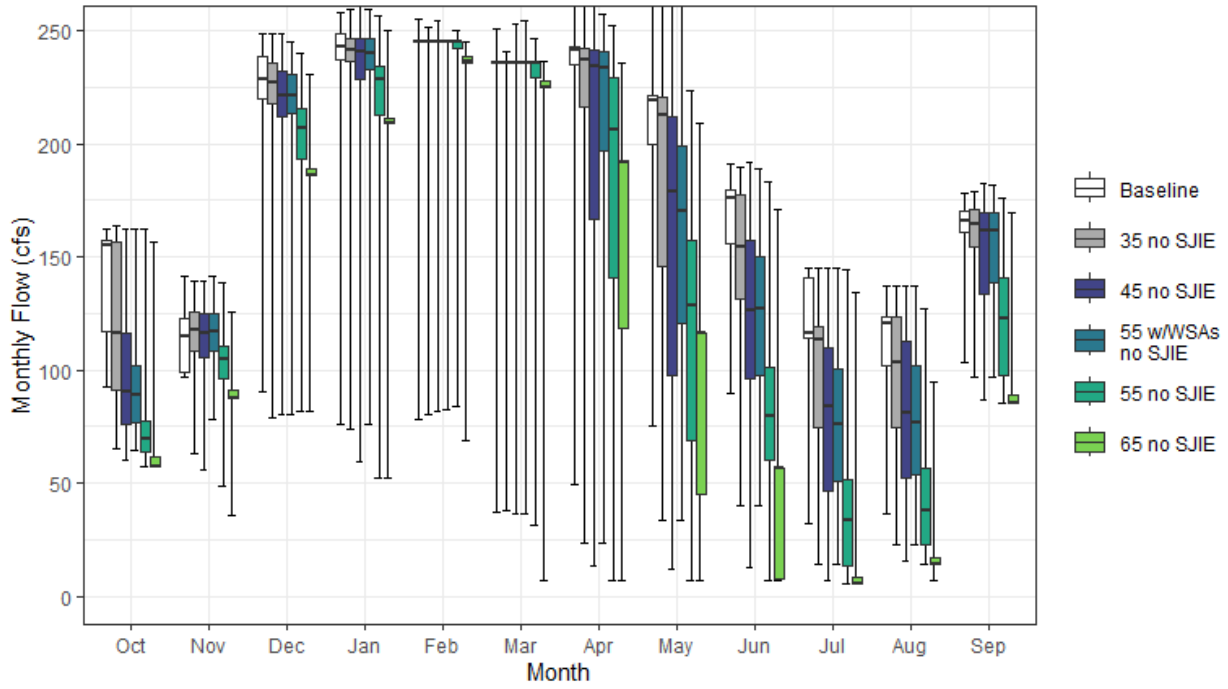

Figure H1a5-60. South Canal Monthly Boxplot (cfs)

Table H1a5-119. 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 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	109	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 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 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 SJIE													
0%	58	48	82	52	84	31	7	7	7	6	14	85	37
10%	62	90	186	190	236	194	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%	107	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 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 H1a5-120. 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 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	118	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	115	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 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 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 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 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

H1a5.4.9 South Yuba Canal

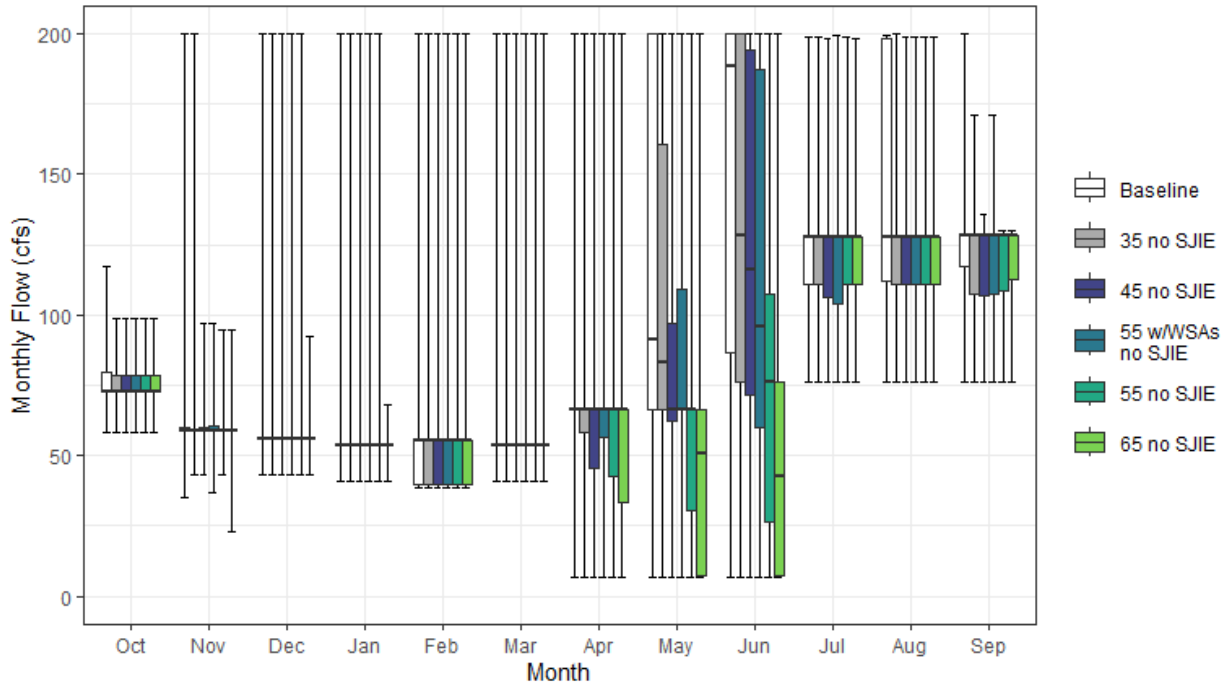

Figure H1a5-61. South Yuba Canal Monthly Boxplot (cfs)

Table H1a5-121. 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 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	111	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	157	199	128	78
100%	99	200	200	200	200	200	200	200	200	199	200	171	105
Mean	76	63	67	59	59	60	68	105	129	124	130	118	64
45 no 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	81	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 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 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	100
Mean	76	61	60	56	59	59	61	64	80	118	121	118	56
65 no 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	95
Mean	76	61	58	53	57	55	58	49	55	119	119	120	53

Table H1a5-122. 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 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	147	103	134	110
W	76	59	79	71	84	83	103	144	168	114	110	108
All	76	63	67	59	59	60	68	105	129	124	130	118
45 no 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 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	83	98	107	143	108	113	111
All	76	62	64	57	59	60	64	83	107	120	126	118
55 no SJIE												
C	75	61	60	60	48	49	21	53	55	124	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	116	112
All	76	61	60	56	59	59	61	64	80	118	121	118
65 no 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	109	112	115
All	76	61	58	53	57	55	58	49	55	119	119	120

H1a5.4.10Chalk Bluff Canal

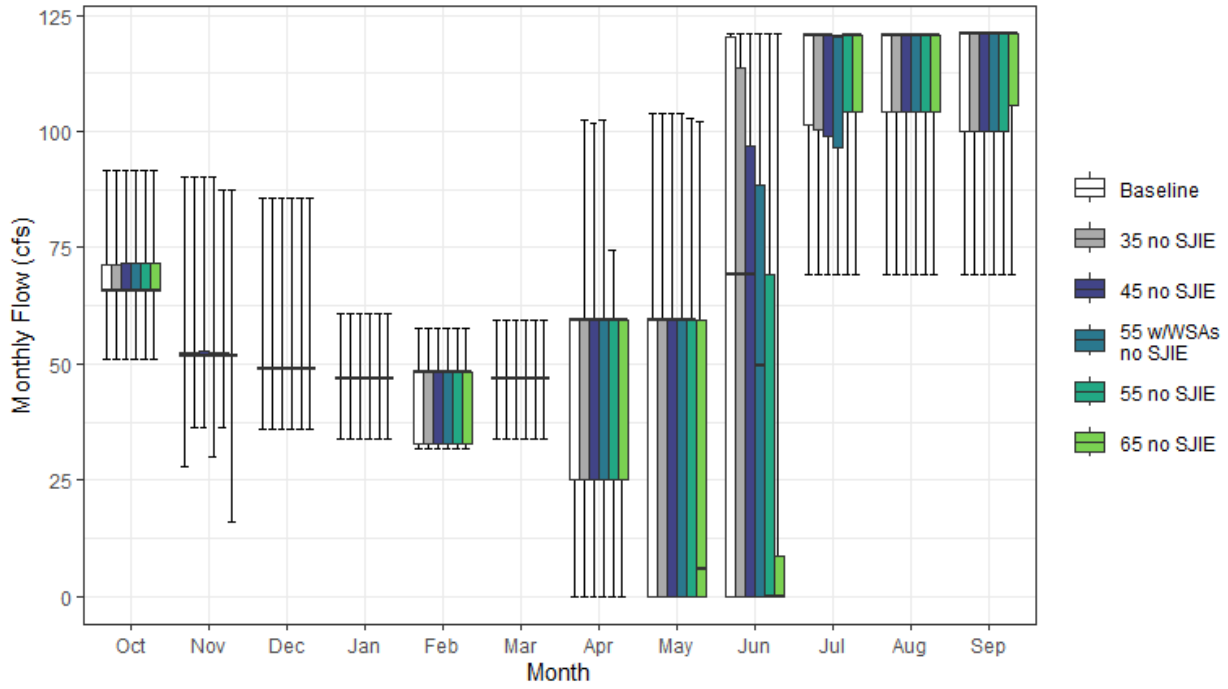

Figure H1a5-62. Chalk Bluff Canal Monthly Boxplot (cfs)

Table H1a5-123. 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 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	101	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	59	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 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 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	120	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	103	104	121	121	121	121	60
Mean	69	55	51	46	43	44	44	37	49	107	109	110	46
55 no 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	74	103	121	121	121	121	56
Mean	69	54	51	46	43	44	44	34	35	108	109	111	45
65 no 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 H1a5-124. 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 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	82	96	103	103
W	69	52	48	46	47	47	61	62	95	107	96	101
All	69	55	51	46	43	44	45	40	60	108	108	109
45 no 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 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	101	99	104
All	69	55	51	46	43	44	44	37	49	107	109	110
55 no SJIE												
C	68	54	53	53	40	41	8	0	0	109	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 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	96	102	108
All	69	54	51	46	43	44	44	28	16	108	110	113

H1a5.4.11 Clear Creek Tunnel

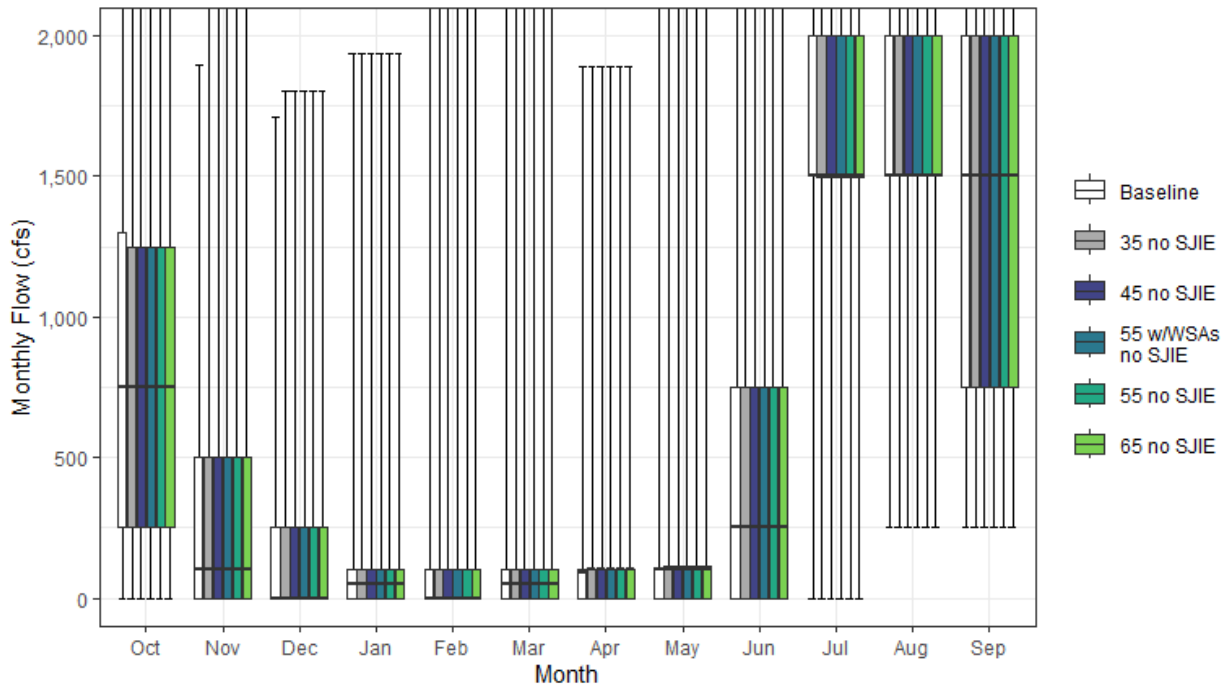

Figure H1a5-63. Clear Creek Tunnel Monthly Boxplot (cfs)

Table H1a5-125. 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 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 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 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 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 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 H1a5-126. 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 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 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 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 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 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

H1a5.4.12Spring Creek Conduit

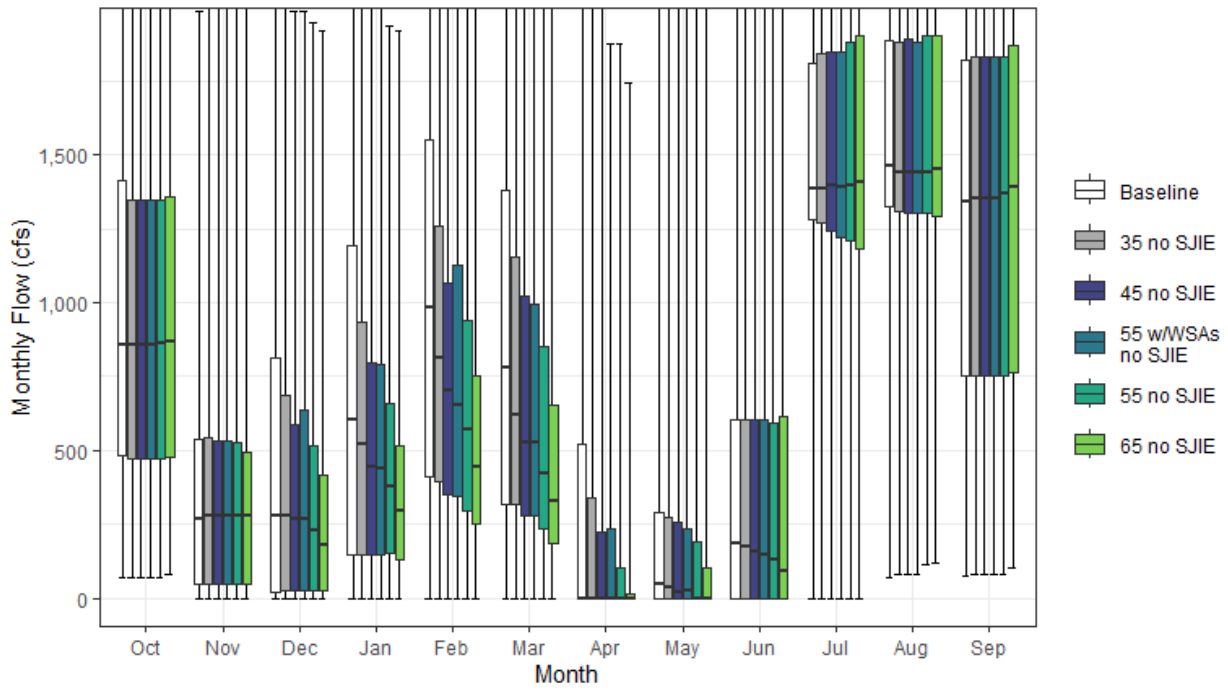

Figure H1a5-64. Spring Creek Conduit Monthly Boxplot (cfs)

Table H1a5-127. 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 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	332
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	173	1,388	1,440	1,350	550
75%	1,349	543	686	935	1,260	1,154	339	273	603	1,844	1,880	1,832	676
90%	1,966	959	1,137	1,312	2,060	1,602	782	555	1,061	2,992	2,481	2,040	800
100%	3,436	3,287	2,051	2,798	3,748	3,847	2,144	3,502	3,467	3,351	3,189	3,210	1,497
Mean	984	414	439	624	961	821	247	245	413	1,496	1,564	1,299	575
45 no SJIE													
0%	71	0	0	0	0	0	0	0	0	0	82	82	179
10%	239	0	0	21	156	139	0	0	0	43	862	503	322
25%	470	48	26	148	350	279	0	0	0	1,244	1,305	753	422
50%	858	277	267	442	700	528	0	18	159	1,398	1,440	1,352	531
75%	1,349	534	589	797	1,065	1,025	226	257	606	1,845	1,891	1,832	657
90%	1,966	884	984	1,222	1,819	1,415	592	450	1,065	2,989	2,481	2,045	756
100%	3,433	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	407	1,498	1,564	1,300	551
55 w/WSAs no SJIE													
0%	71	0	0	0	0	0	0	0	0	0	79	82	179
10%	238	0	0	21	156	140	0	0	0	38	815	503	331
25%	471	48	25	148	347	279	0	0	0	1,222	1,302	753	419
50%	858	277	268	441	654	528	0	24	148	1,392	1,440	1,352	527
75%	1,349	530	635	791	1,128	996	234	236	606	1,849	1,880	1,833	657
90%	1,964	892	991	1,134	1,821	1,399	495	446	1,038	2,993	2,481	2,046	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	402	1,492	1,558	1,297	545
55 no SJIE													
0%	71	0	0	0	0	0	0	0	0	0	115	84	170
10%	239	0	0	21	156	139	0	0	0	13	864	503	294
25%	472	48	25	151	298	234	0	0	0	1,211	1,302	753	404
50%	864	277	229	377	571	424	0	1	130	1,399	1,440	1,366	515
75%	1,347	528	515	656	937	850	101	193	594	1,878	1,901	1,833	635
90%	1,964	864	853	1,058	1,656	1,397	413	341	1,051	3,009	2,527	2,041	712
100%	3,455	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	1,568	1,304	527
65 no SJIE													
0%	80	0	0	0	0	0	0	0	0	0	118	105	161
10%	245	0	0	22	141	107	0	0	0	10	869	531	283
25%	476	50	26	130	251	184	0	0	0	1,180	1,291	761	372
50%	869	278	177	297	443	328	0	0	94	1,406	1,454	1,391	494
75%	1,356	495	416	516	754	655	14	103	616	1,902	1,901	1,867	606
90%	1,969	817	696	828	1,632	1,211	305	254	1,048	2,996	2,530	2,047	706
100%	3,450	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	988	378	307	401	646	539	109	172	387	1,499	1,577	1,320	504

Table H1a5-128. 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 SJIE												
C	747	151	175	212	784	367	9	256	632	2,315	1,329	789
D	902	407	271	249	1,058	674	33	51	542	1,563	1,833	1,371
BN	1,018	398	191	648	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	1,496	1,564	1,299
45 no SJIE												
C	748	151	161	202	753	352	6	248	632	2,315	1,330	793
D	904	401	255	236	1,007	602	21	45	542	1,584	1,844	1,374
BN	1,018	393	174	594	518	715	182	54	410	1,114	1,537	1,166
AN	1,027	445	519	834	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	407	1,498	1,564	1,300
55 w/WSAs no SJIE												
C	746	151	175	211	782	367	8	256	633	2,317	1,331	779
D	902	394	261	235	1,030	627	22	50	548	1,572	1,834	1,373
BN	1,017	387	174	608	523	720	201	53	403	1,105	1,533	1,166
AN	1,027	439	524	872	941	713	257	179	128	1,249	1,531	1,342
W	1,132	528	691	763	926	937	325	446	281	1,335	1,503	1,583
All	984	400	393	540	850	707	175	219	402	1,492	1,558	1,297
55 no SJIE												
C	753	151	148	189	718	326	3	236	632	2,312	1,335	791
D	904	392	234	220	953	530	11	33	540	1,597	1,869	1,390
BN	1,019	387	158	541	440	649	145	45	407	1,117	1,542	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	1,568	1,304
65 no SJIE												
C	758	153	134	173	682	300	1	225	617	2,304	1,336	793
D	908	383	213	198	898	459	3	25	517	1,600	1,885	1,414
BN	1,021	382	140	486	361	582	113	38	407	1,116	1,566	1,196
AN	1,026	417	430	593	588	450	181	64	120	1,258	1,536	1,370
W	1,135	477	523	542	648	734	212	381	263	1,334	1,502	1,593
All	988	378	307	401	646	539	109	172	387	1,499	1,577	1,320

H1a5.4.13 Robbs Peak Tunnel

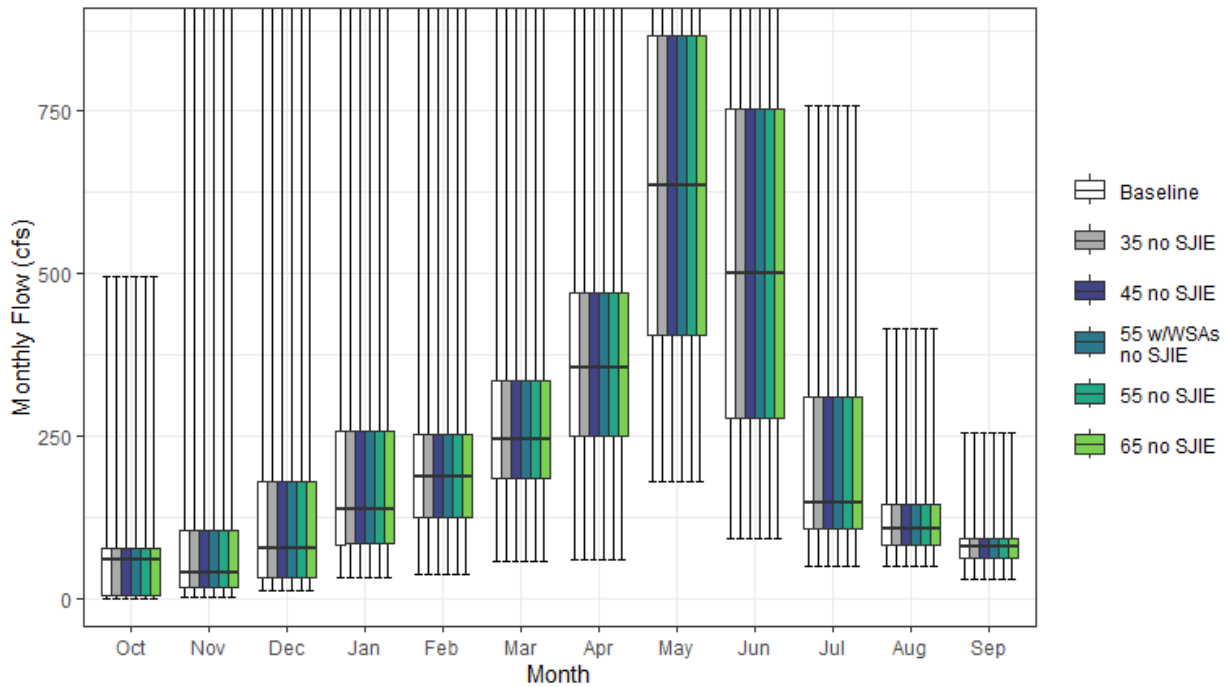

Figure H1a5-65. Robbs Peak Tunnel Monthly Boxplot (cfs)

Table H1a5-129. 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 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 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	470	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 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	470	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 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 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 H1a5-130. 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 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 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 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 no 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 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

H1a5.4.14 Lake Valley Canal

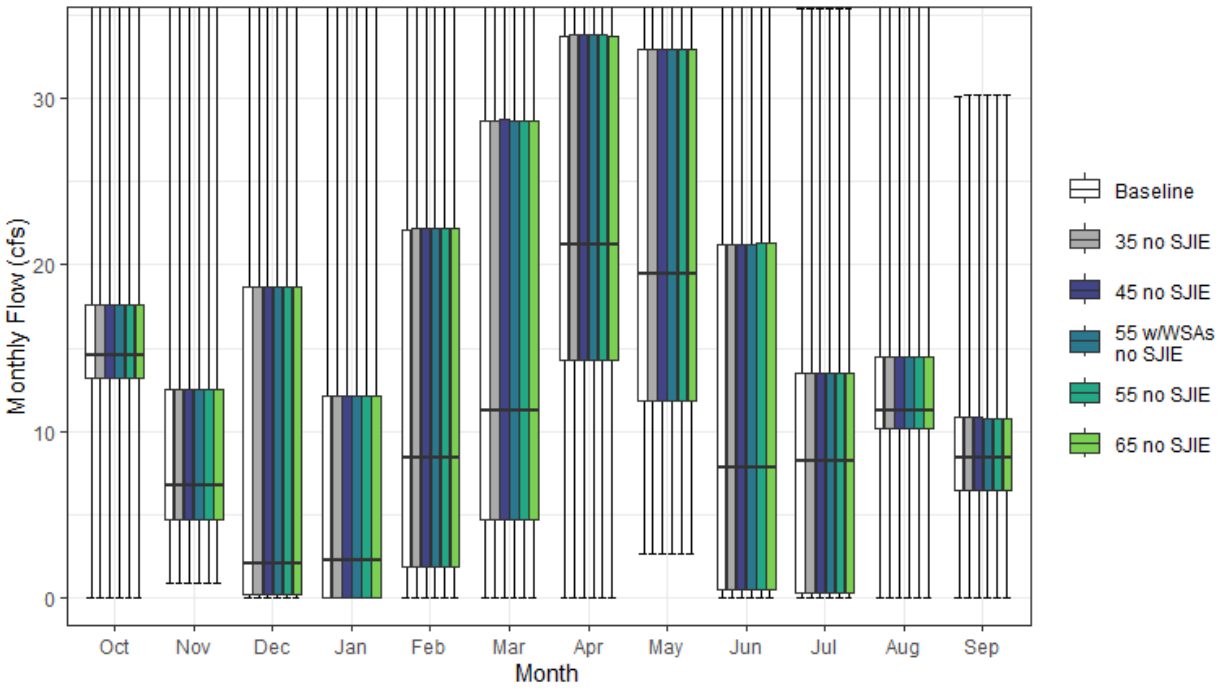

Figure H1a5-66. Lake Valley Canal Monthly Boxplot (cfs)

Table H1a5-131. 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 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 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 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 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 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

Table H1a5-132. 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 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 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
55 w/WSAs no 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
55 no 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 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

H1a5.5 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 H1a5-133. 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 H1a5-134. Reservoirs that exhibit greater than one percent change from baseline storage during April or September are listed in Table H1a5-135.

Results for other reservoirs listed in Tables H1a5-134 and H1a5-135 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 H1a5-136).

Table H1a5-133. 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 H1a5-134. 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 H1a5-135. 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 H1a5-136. Average Annual Change in Elevation for Reservoirs with Elevational Changes Calculated by SacWAM (ft).

			Flow Scenario Minus Baseline				
Reservoir	Watershed	Baseline	35 no SJIE	45 no SJIE	55 no SJIE	55 w/WSAs no SJIE	65 no 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	-3.4	-7.9	-12.9	-9	-9.2
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

			Flow Scenario Minus Baseline				
Reservoir	Watershed	Baseline	35 no SJIE	45 no SJIE	55 no SJIE	55 w/WSAs no SJIE	65 no SJIE
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	-0.8	-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	-11.1	-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	-20.4	-31.2	-44.2	-31.5	-65.7
Pardee Reservoir	Mokelumne	18.9	-0.6	-0.5	-0.7	1.6	-1.2
Rollins Reservoir	Bear	11.7	0.1	-0.1	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	-3	-1.6	0.8	-5.2	-6.1
Stony Gorge Reservoir	Stony	11.8	6.7	9.3	13.6	9.9	18.1
San Luis Reservoir Total	SOD Offstream	125.1	0.5	-1.6	-1.1	-1.9	9.6
Trinity Reservoir	Trinity	66.5	-0.8	-0.8	-0.8	-0.8	-0.8
Whiskeytown Reservoir	Clear	10.2	0	0	0	0	0

H1a5.5.1 Antelope Reservoir (Feather River Watershed)

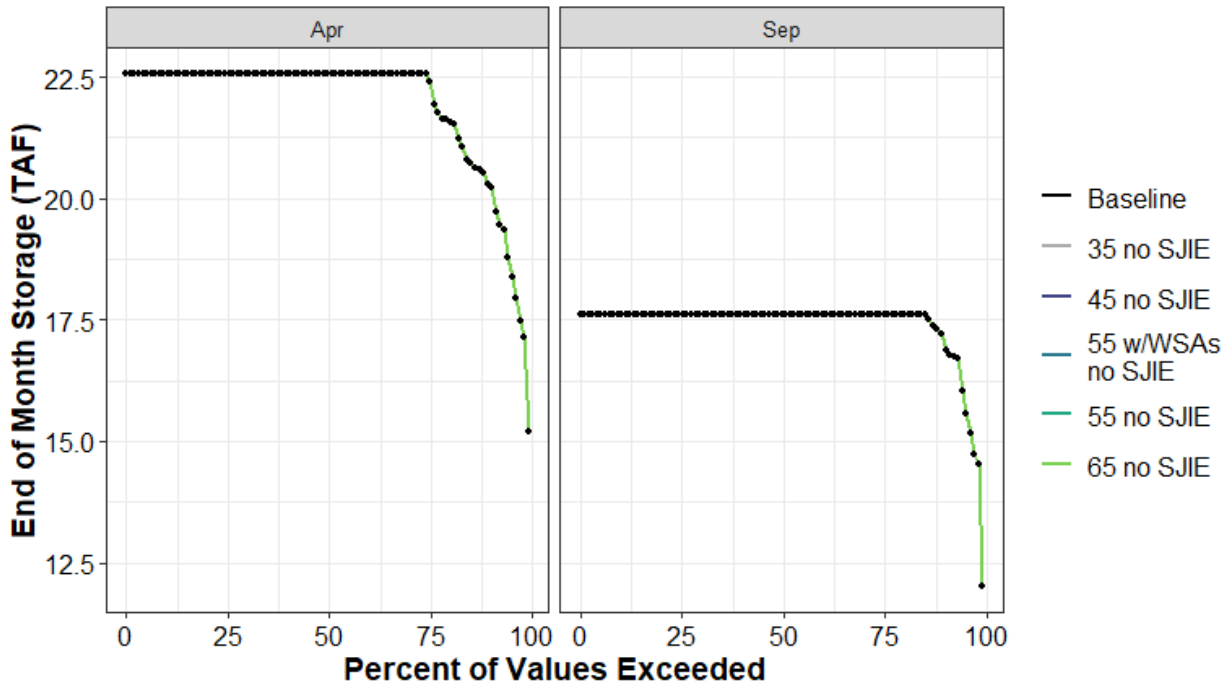

Figure H1a5-67. Antelope Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

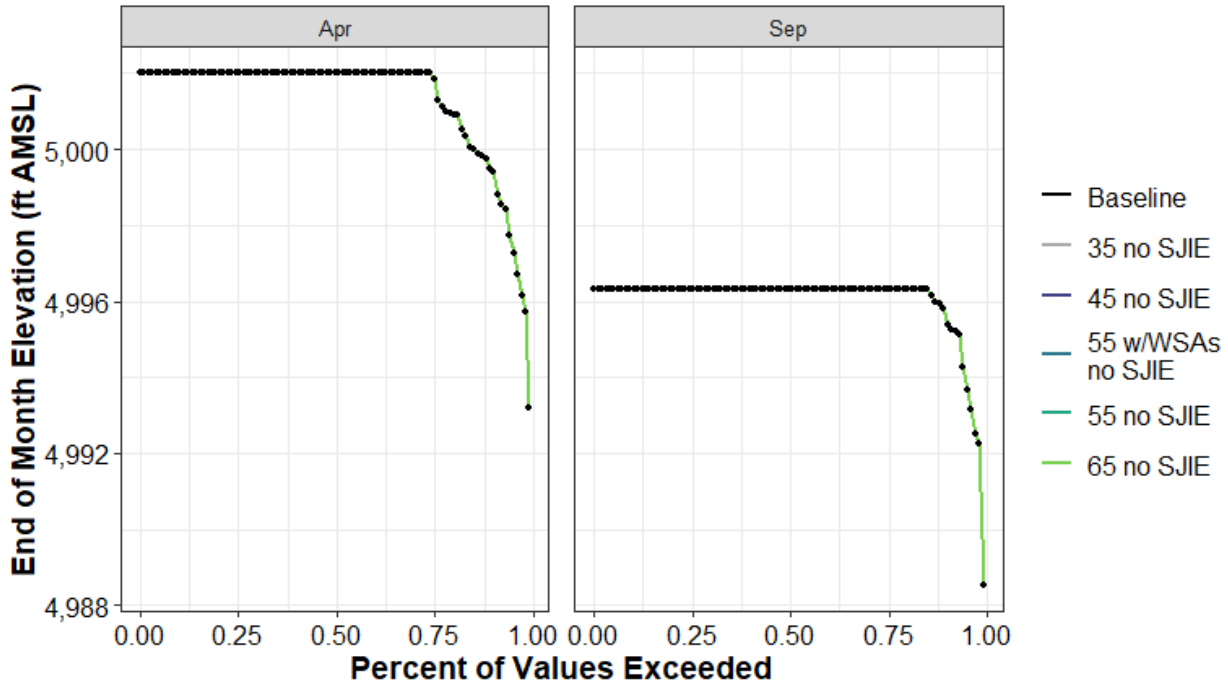

Figure H1a5-68. Antelope Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-137. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-138. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-139. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-140. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.2 Black Butte Reservoir (Stony Creek Watershed)

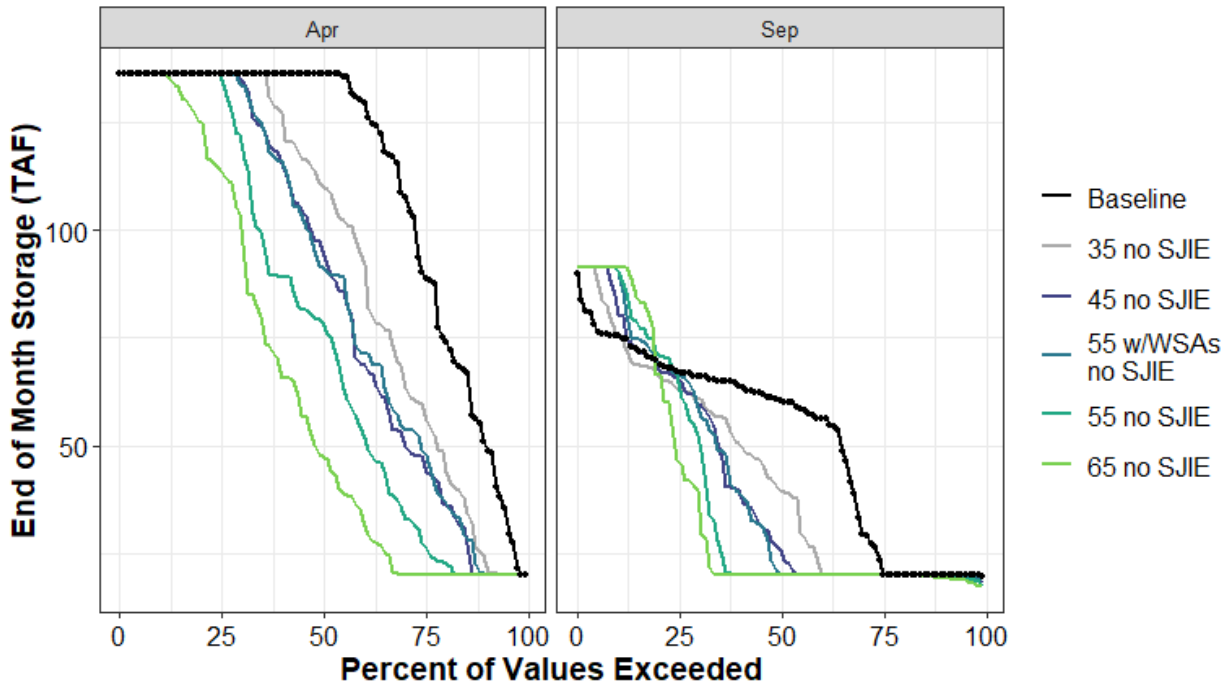

Figure H1a5-69. Black Butte Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

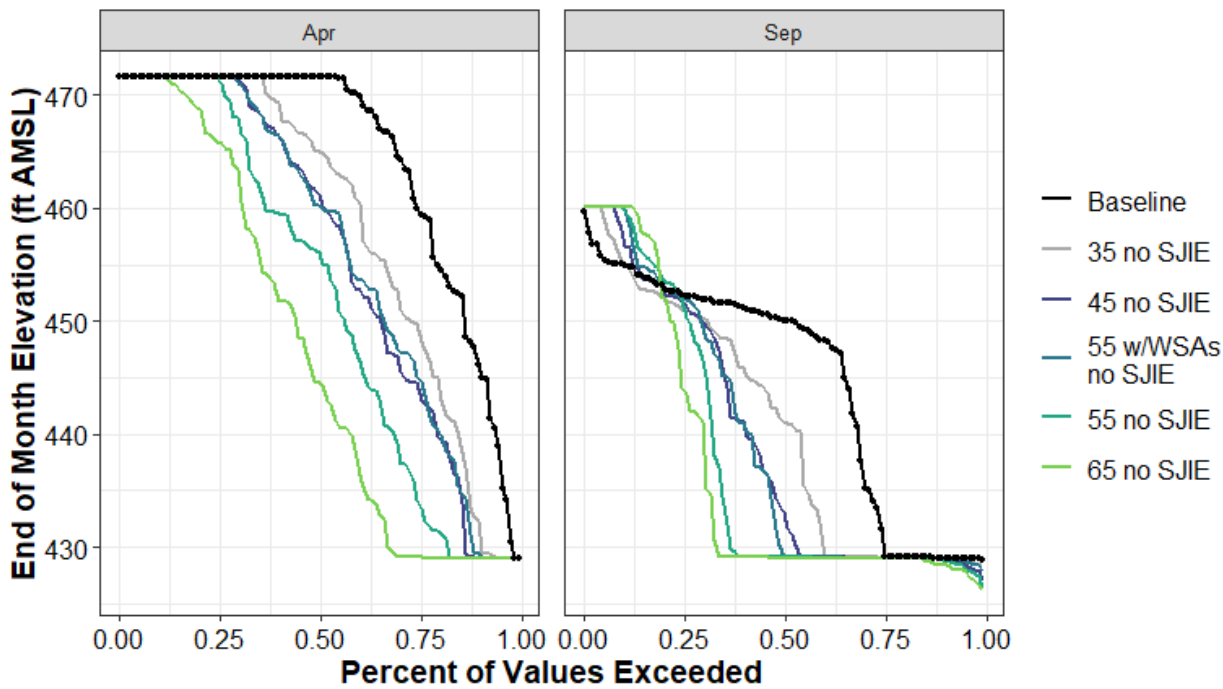

Figure H1a5-70. Black Butte Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-141. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-142. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-143. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-144. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.3 Bowman Lake (Yuba River Watershed)

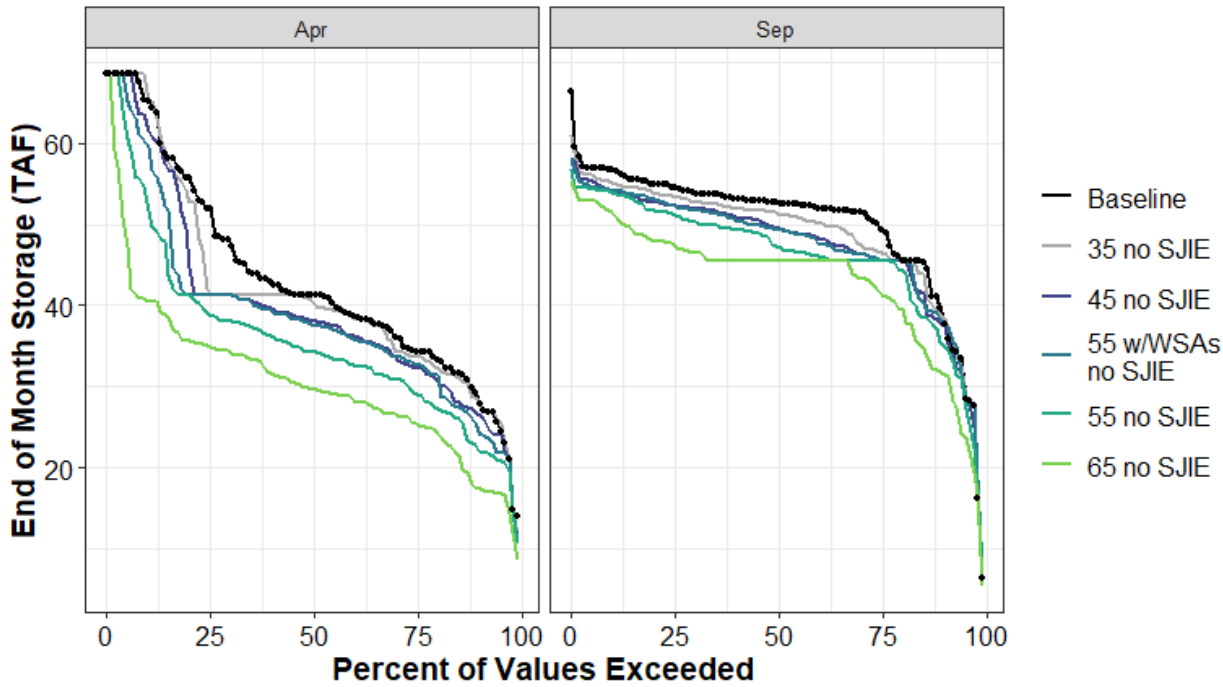

Figure H1a5-71. Bowman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

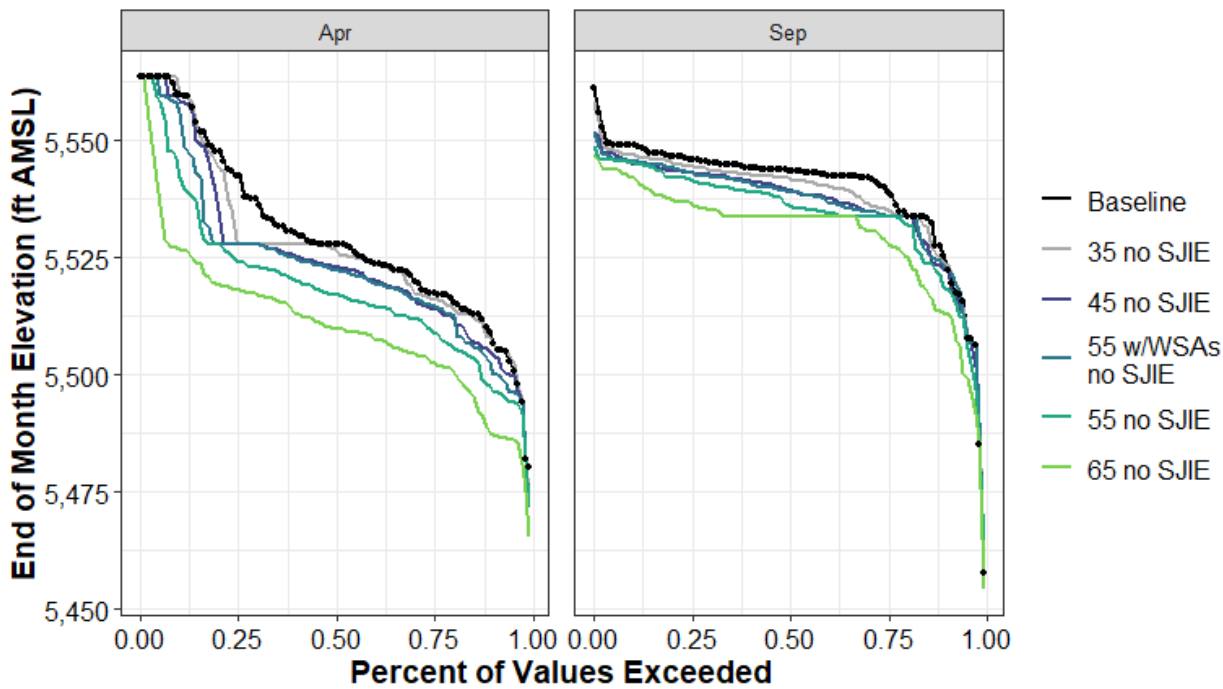

Figure H1a5-72. Bowman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-145. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-146. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	-5	-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	-4	-4	-6	-10

Table H1a5-147. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	-6	-13	-25
100%	69	0	0	0	0	0
Mean	43	-1	-3	-4	-7	-13

Table H1a5-148. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.4 Bucks Lake (Feather River Watershed)

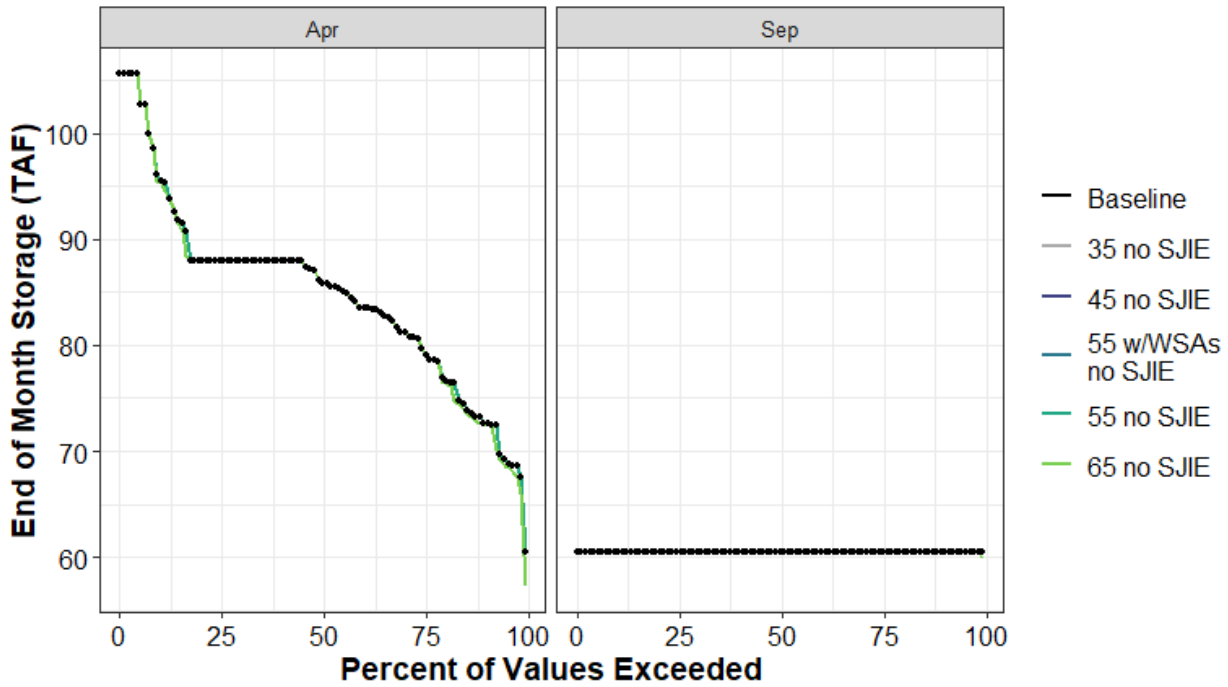

Figure H1a5-73. Bucks Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

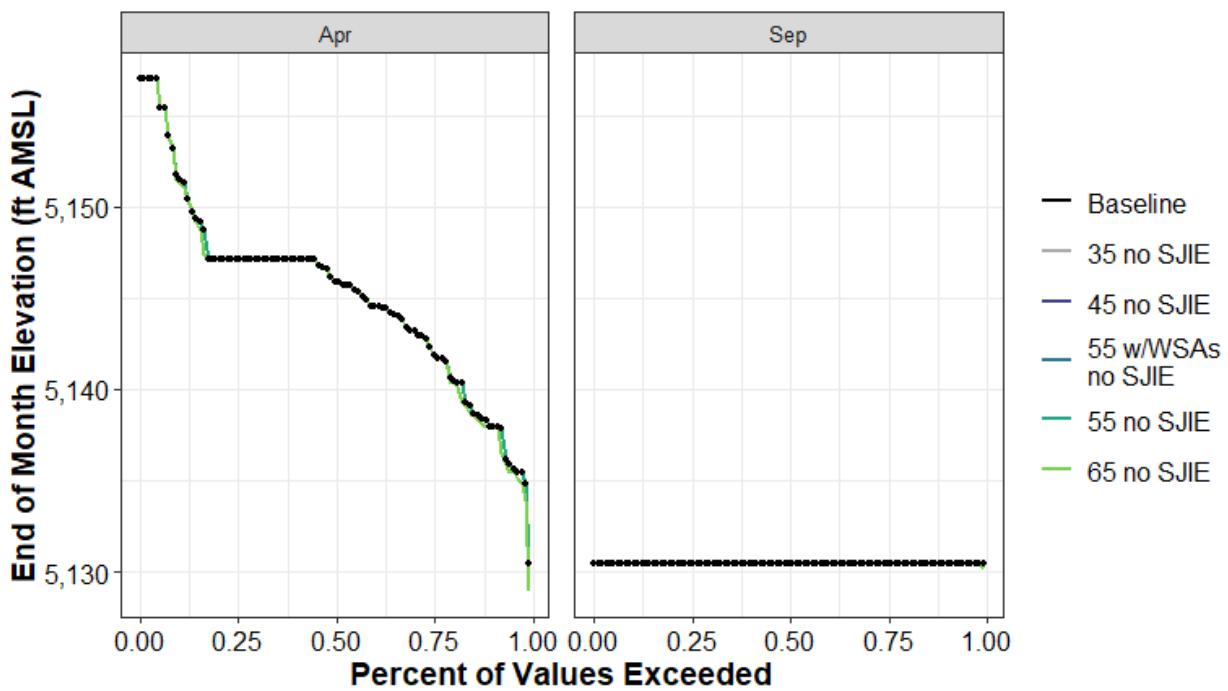

Figure H1a5-74. Bucks Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-149. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-150. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-151. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-152. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.5 Butt Valley (Feather River Watershed)

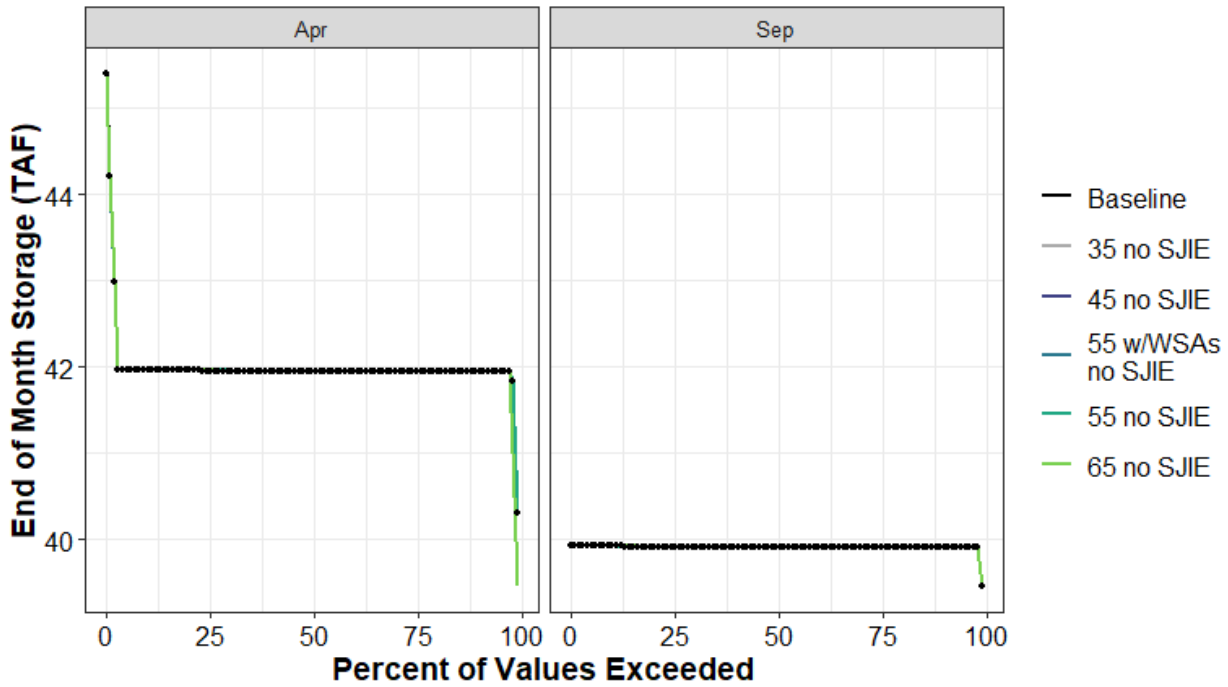

Figure H1a5-75. Butt Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

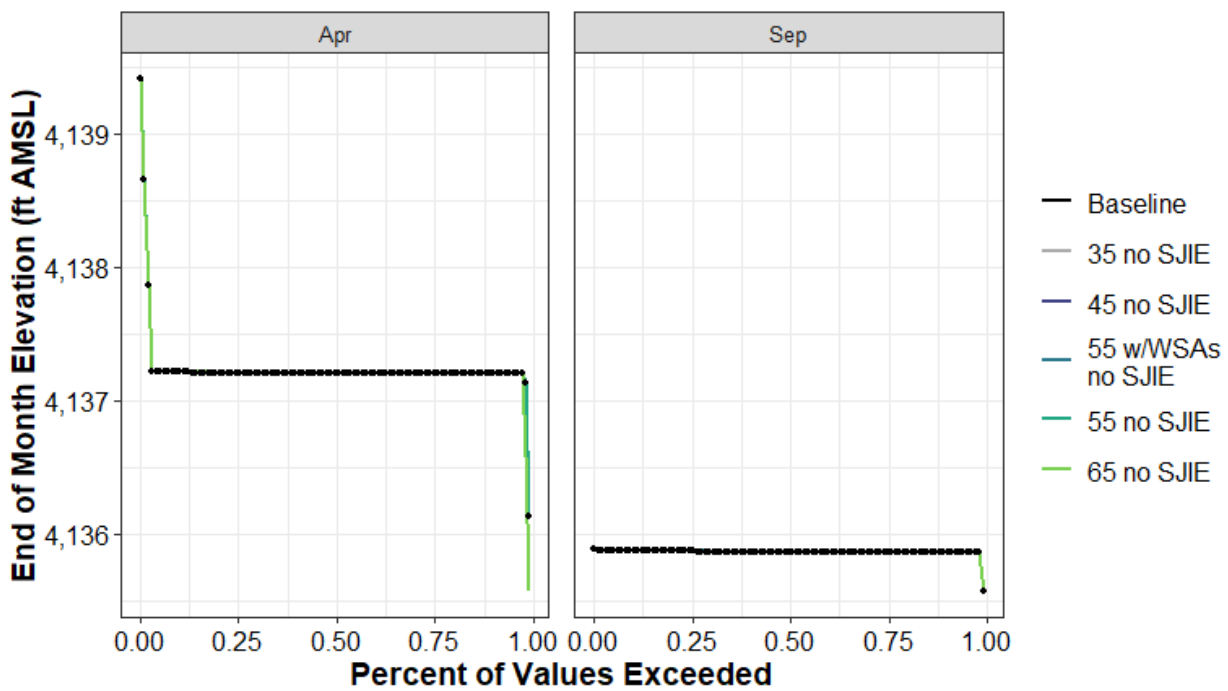

Figure H1a5-76. Butt Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-153. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-154. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-155. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-156. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.6 Camanche Reservoir (Mokelumne River Watershed)

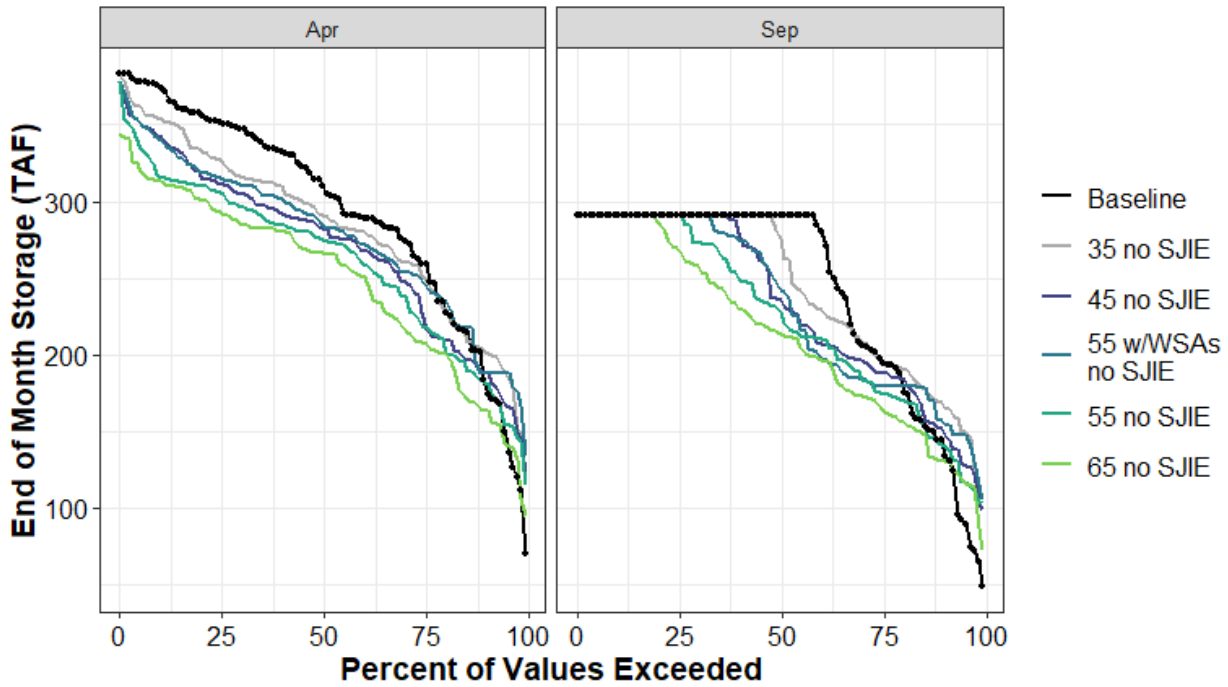

Figure H1a5-77. Camanche Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

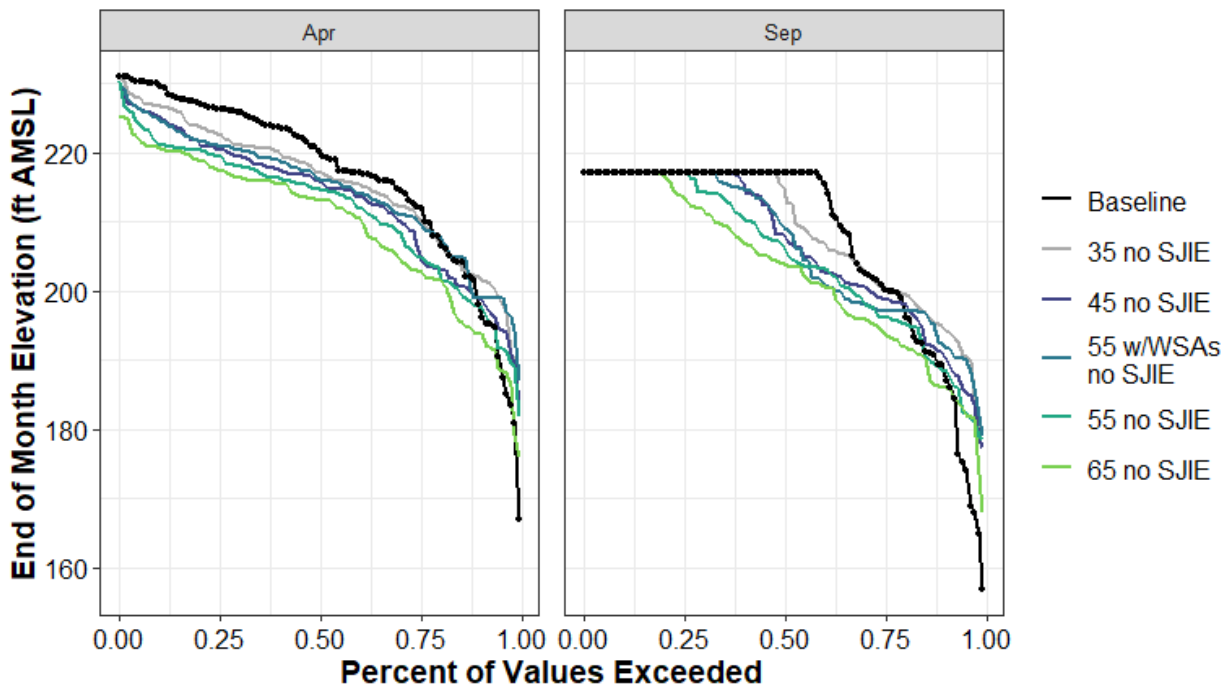

Figure H1a5-78. Camanche Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-157. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-158. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-159. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	69	73	53	65	45	25
10%	182	21	6	6	0	-19
25%	259	-9	-37	-13	-41	-52
50%	310	-19	-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 H1a5-160. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.7 Camp Far West (Bear River Watershed)

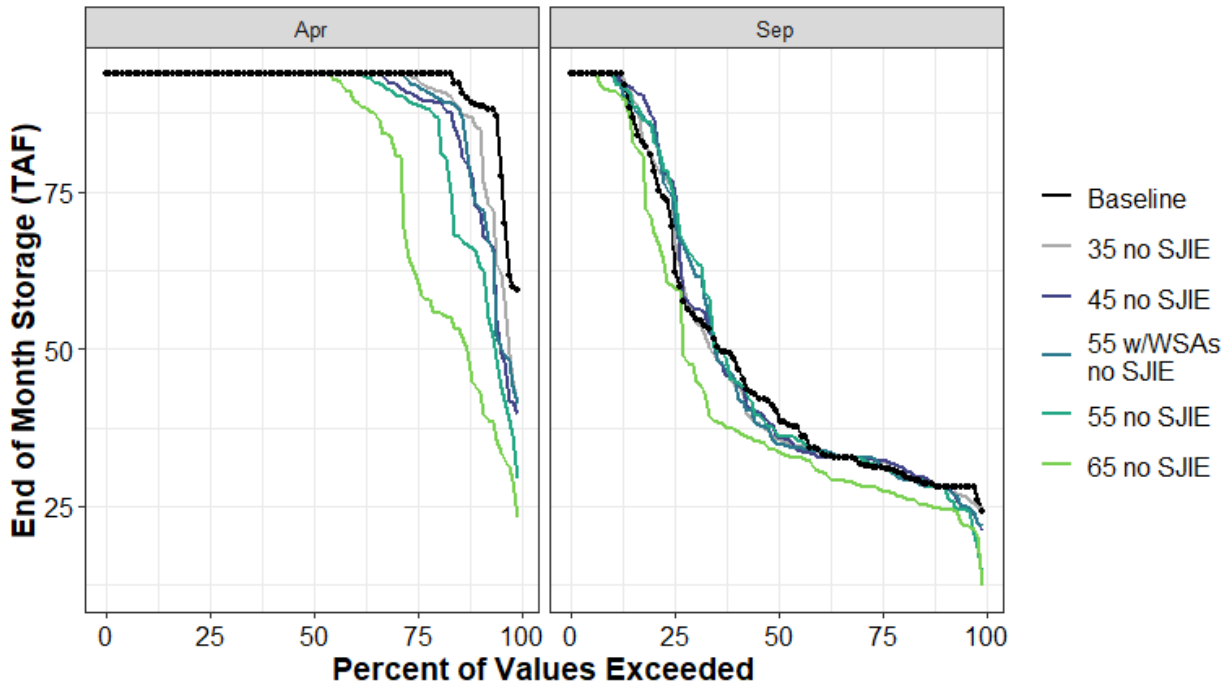

Figure H1a5-79. Camp Far West End of April and End of September Storage (TAF) Percent Exceedance Plot

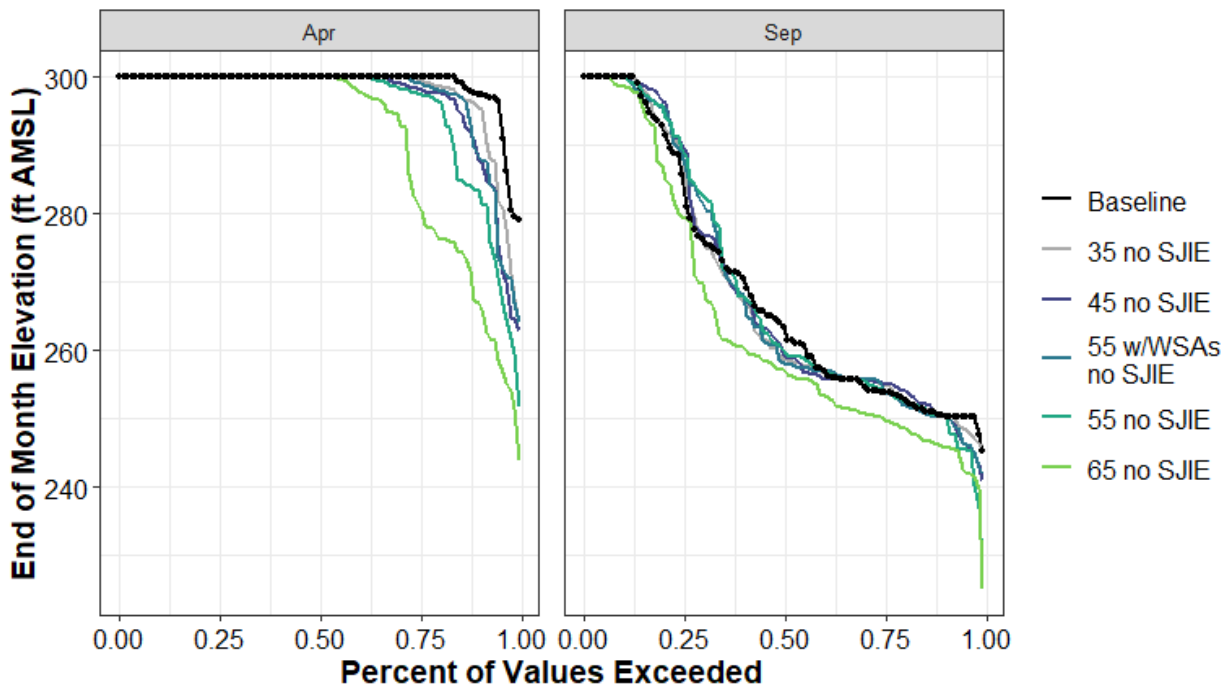

Figure H1a5-80. Camp Far West Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-161. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-162. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-163. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-164. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.8 Caples Lake (American River Watershed)

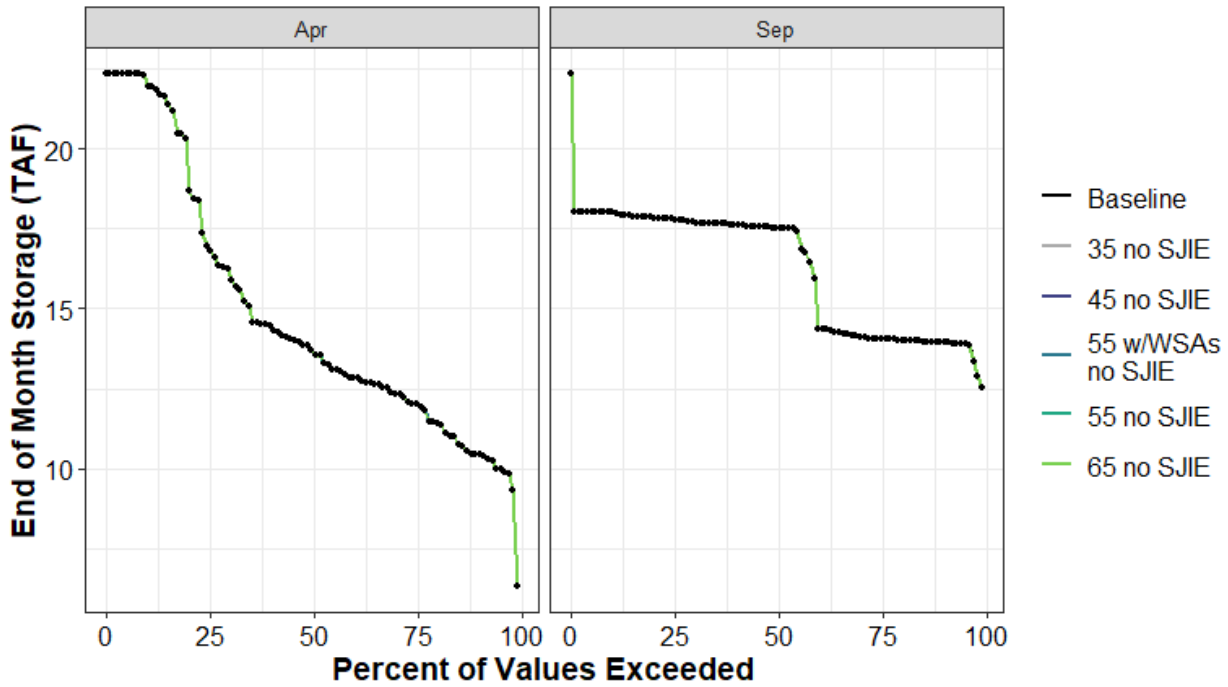

Figure H1a5-81. Caples Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

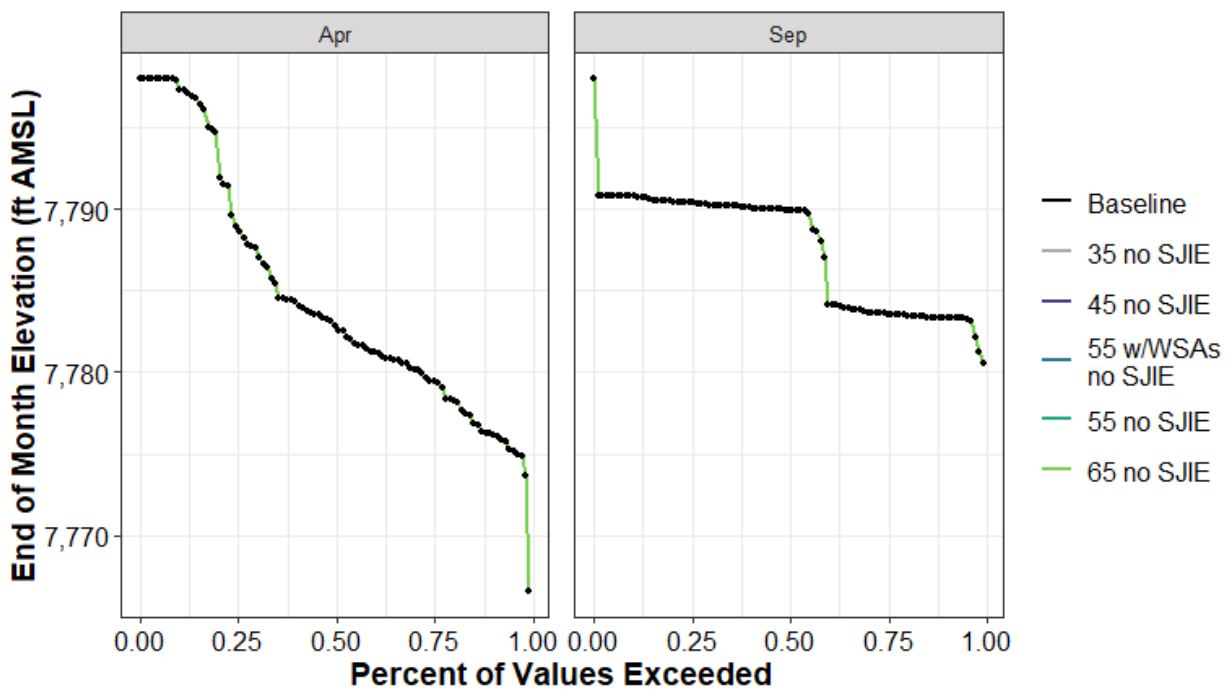

Figure H1a5-82. Caples Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-165. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-166. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-167. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-168. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.9 Clear Lake (Cache Creek Watershed)

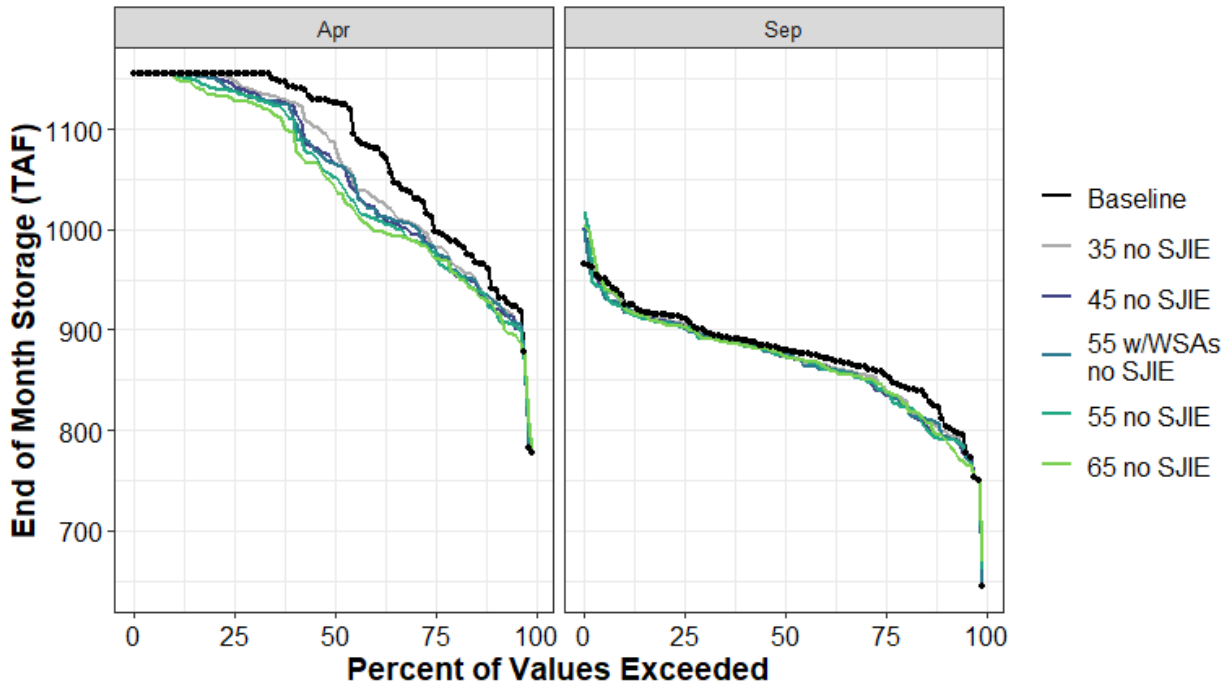

Figure H1a5-83. Clear Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

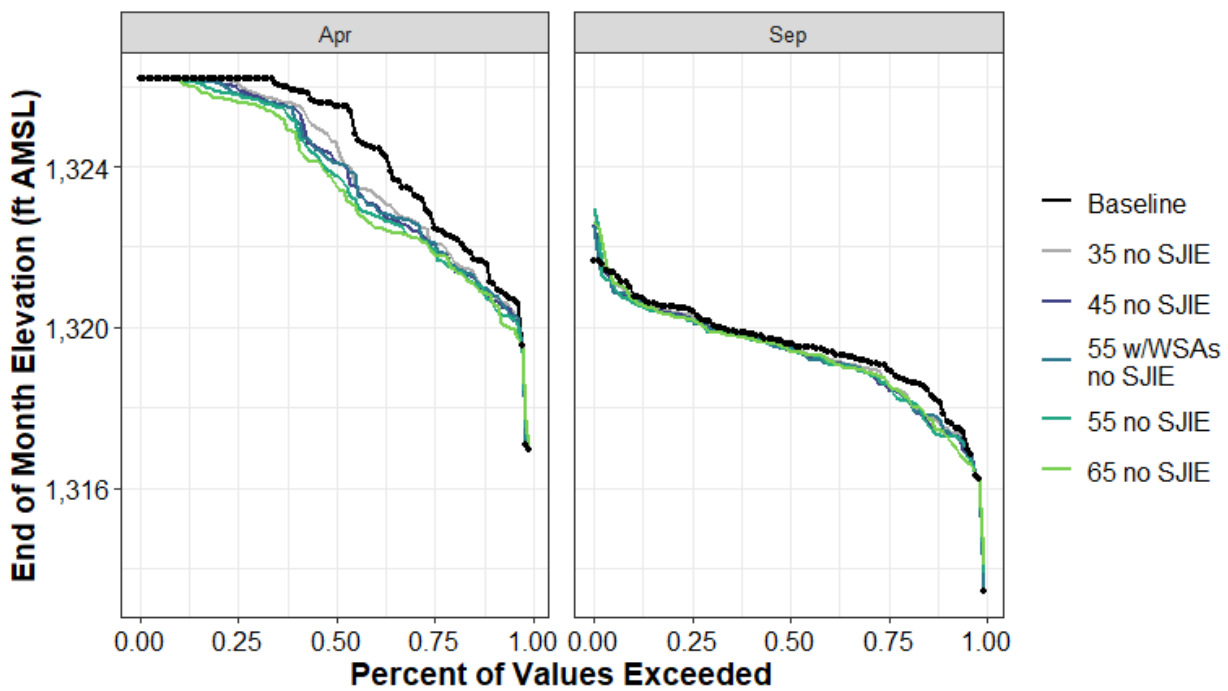

Figure H1a5-84. Clear Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-169. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	-9	-5	-9	-6
100%	965	1	36	35	52	39
Mean	876	-7	-9	-9	-9	-8

Table H1a5-170. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-171. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	777	0	0	0	0	1
10%	941	-10	-21	-11	-20	-16
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 H1a5-172. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.10CVP San Luis Reservoir (South of Delta Offstream)

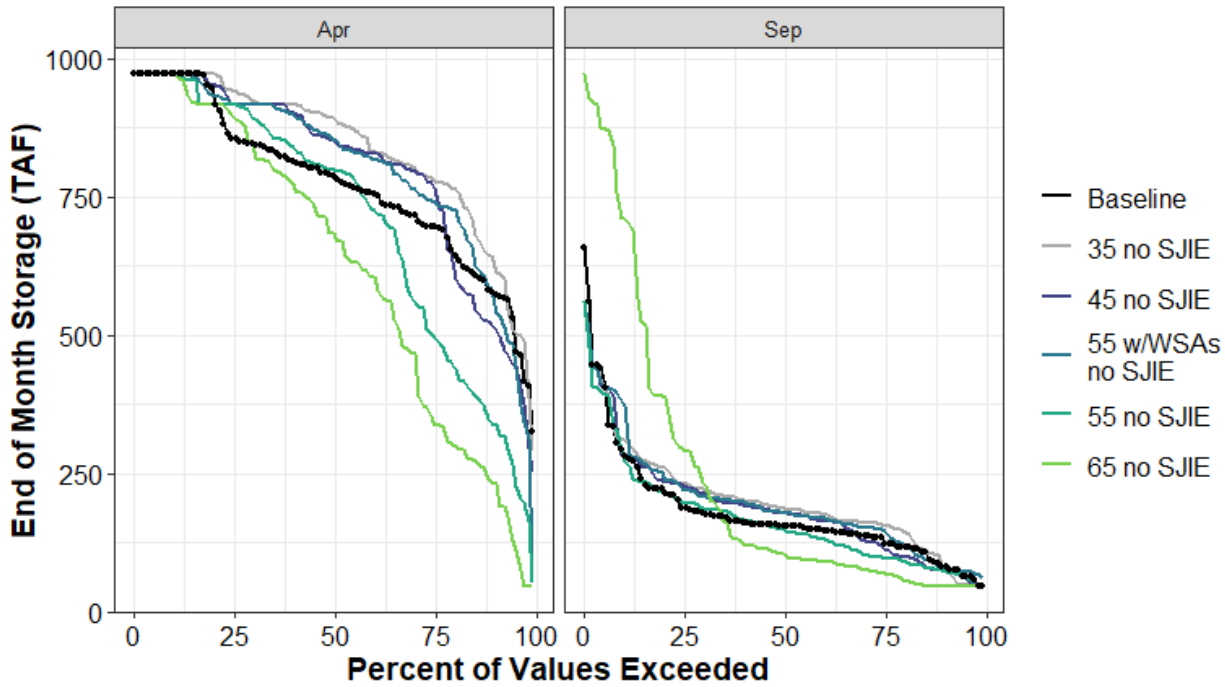

Figure H1a5-85. CVP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-173. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	45	0	0	14	0	0
10%	81	-1	-6	-1	-6	-36
25%	128	27	-13	18	-31	-58
50%	155	31	23	25	-7	-51
75%	188	43	40	32	10	105
90%	283	28	-2	91	-6	428
100%	658	-98	-98	-98	-98	314
Mean	178	22	10	19	-11	55

Table H1a5-174. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	325	-35	-74	-262	-273	-280
10%	578	59	-60	-2	-238	-345
25%	695	87	73	46	-196	-352
50%	789	103	63	65	9	-105
75%	855	86	62	62	61	38
90%	972	0	0	0	0	0
100%	972	0	0	0	0	0
Mean	773	65	28	33	-66	-149

H1a5.5.11 East Park Reservoir (Stony Creek Watershed)

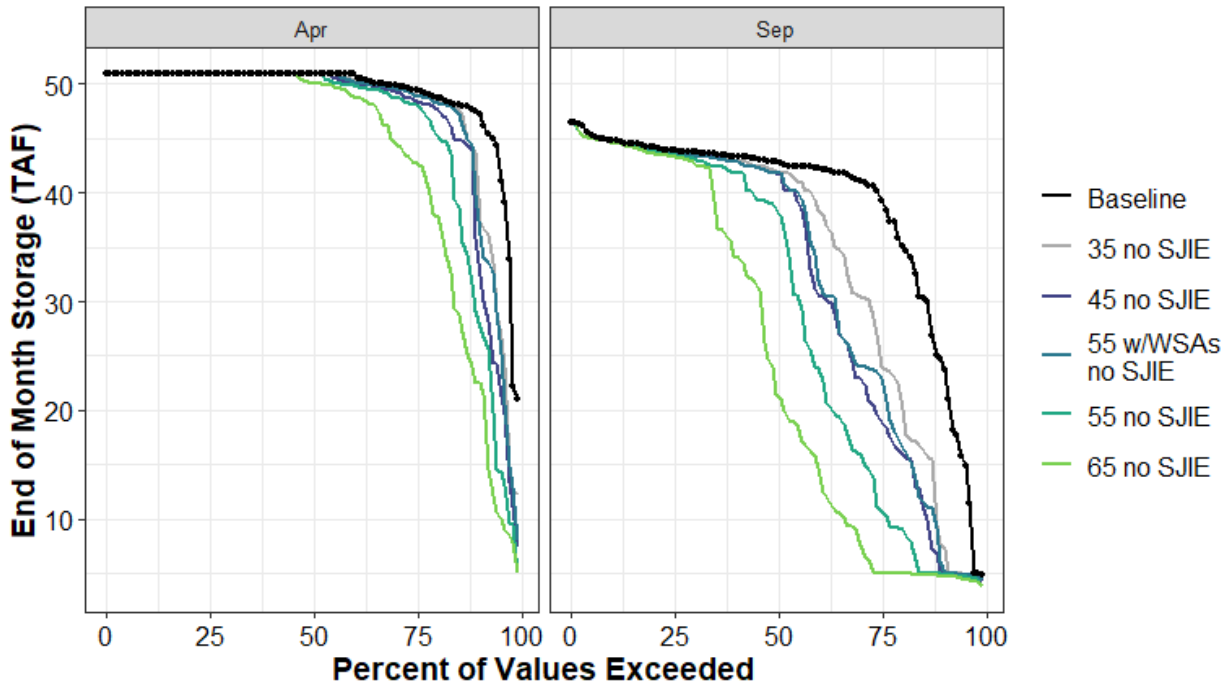

Figure H1a5-86. East Park Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

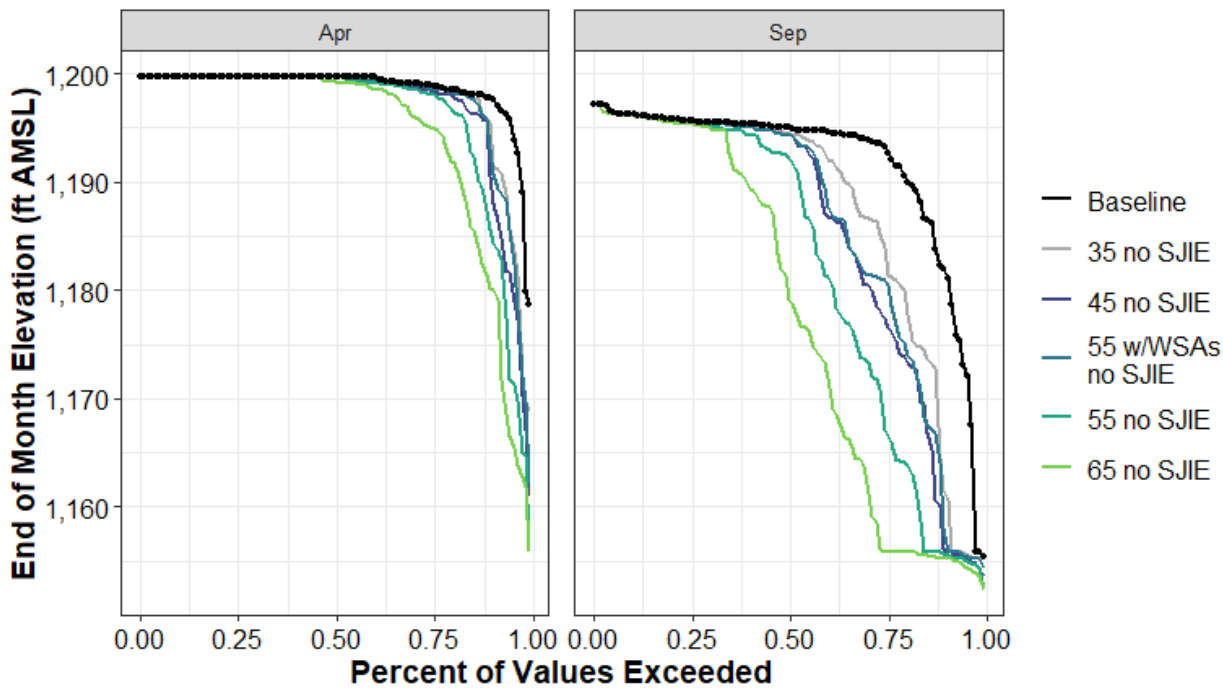

Figure H1a5-87. East Park Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-175. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-176. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-177. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-178. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.12 Folsom Lake (American River Watershed)

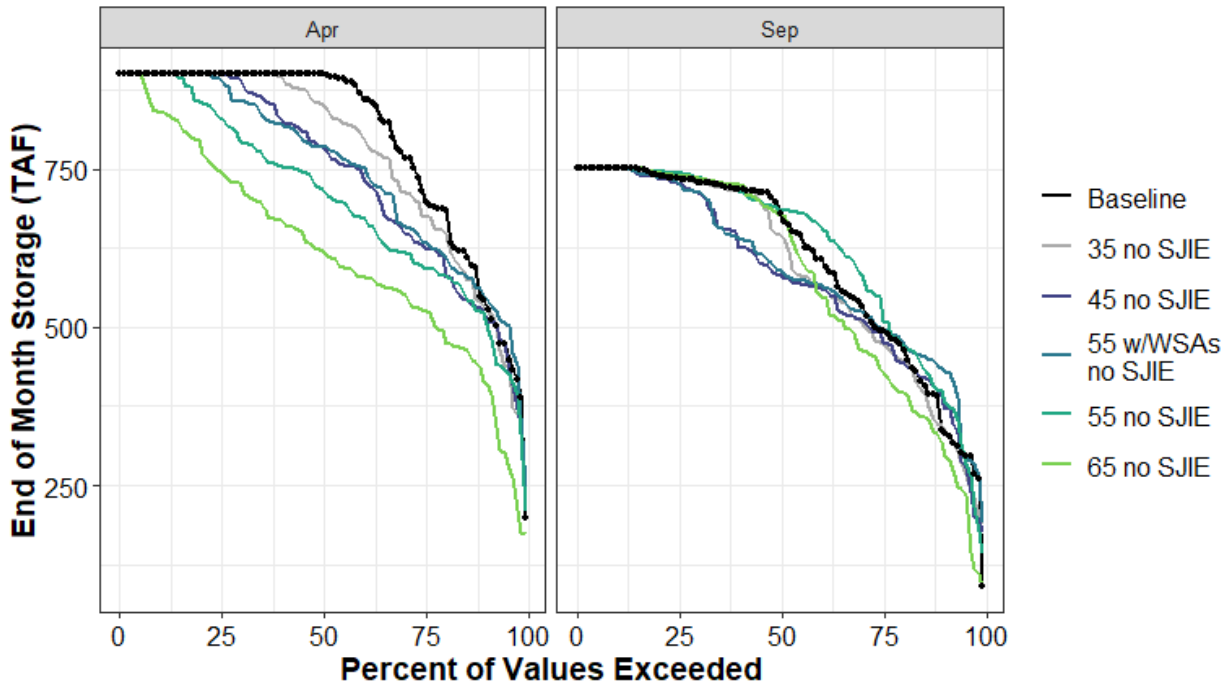

Figure H1a5-88. Folsom Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

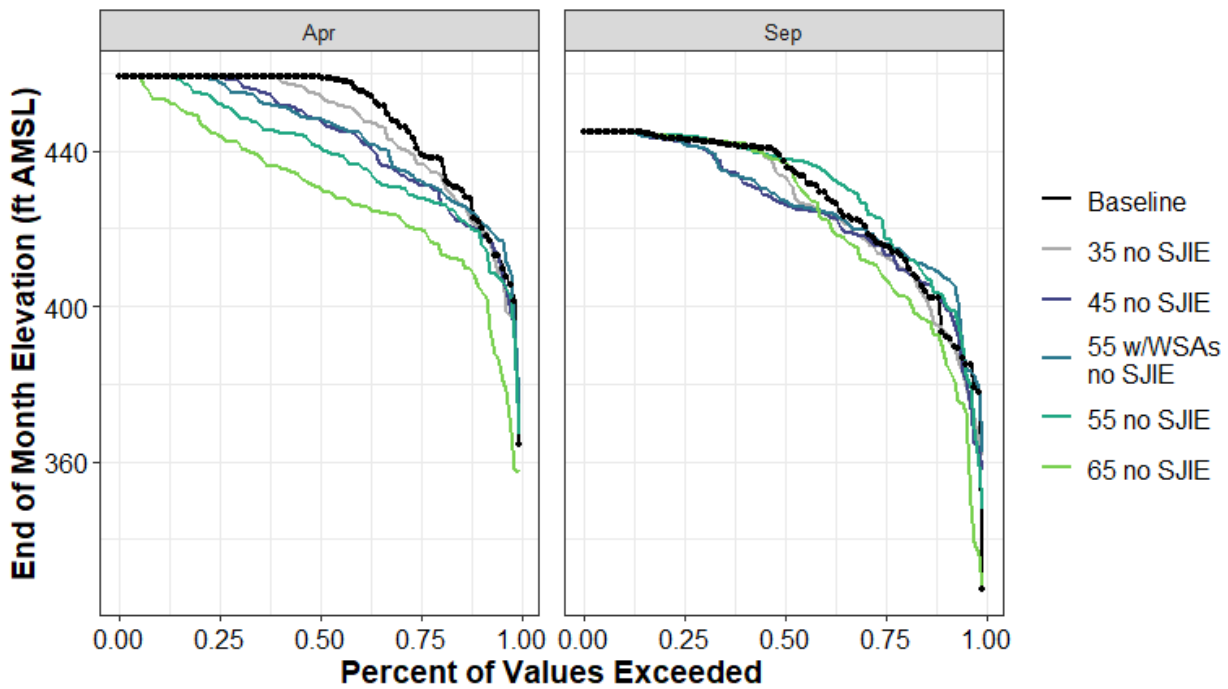

Figure H1a5-89. Folsom Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-179. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	90	97	85	102	51	0
10%	336	8	50	98	59	-22
25%	494	-18	-10	5	36	-63
50%	679	-33	-98	-90	6	-1
75%	735	-1	-9	-10	8	4
90%	752	0	0	0	0	0
100%	752	0	0	0	0	0
Mean	606	-15	-28	-15	15	-28

Table H1a5-180. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	327	34	31	35	21	0
10%	393	1	8	15	9	-4
25%	416	-2	-1	1	4	-8
50%	437	-4	-11	-10	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	-1	2	-4

Table H1a5-181. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	199	42	37	45	10	-26
10%	540	-9	-18	9	-23	-126
25%	706	-30	-78	-71	-112	-179
50%	900	-49	-115	-114	-182	-279
75%	900	0	0	-12	-72	-155
90%	900	0	0	0	0	-60
100%	900	0	0	0	0	0
Mean	797	-23	-55	-50	-96	-177

Table H1a5-182. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	364	10	9	10	2	-7
10%	421	-1	-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	-6	-5	-10	-19

H1a5.5.13 French Lake (Yuba River Watershed)

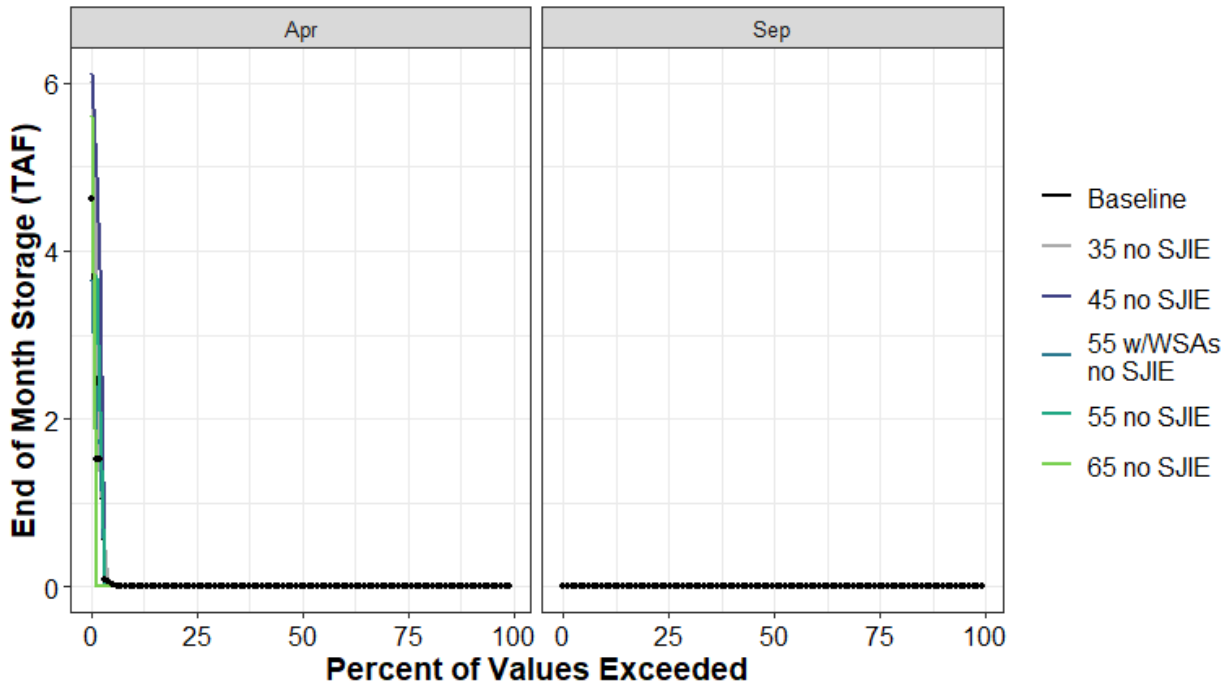

Figure H1a5-90. French Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-183. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-184. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	1	1	-1	-1	1
Mean	0	0	0	0	0	0

H1a5.5.14 French Meadows (American River Watershed)

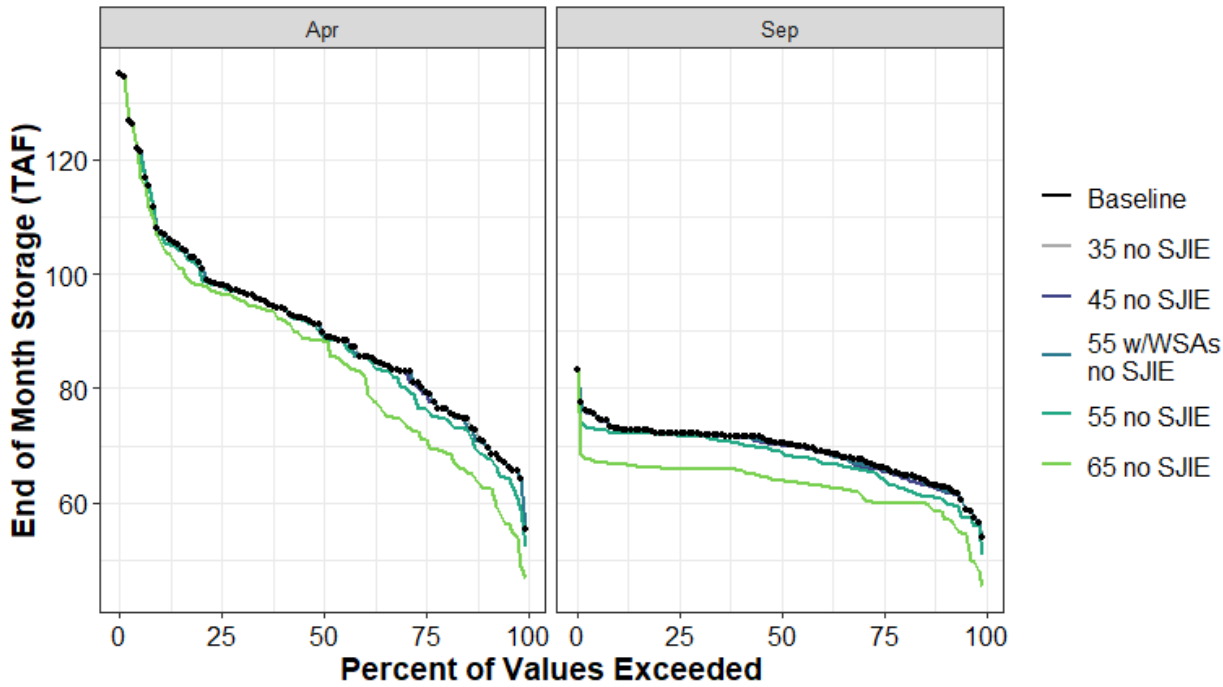

Figure H1a5-91. French Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

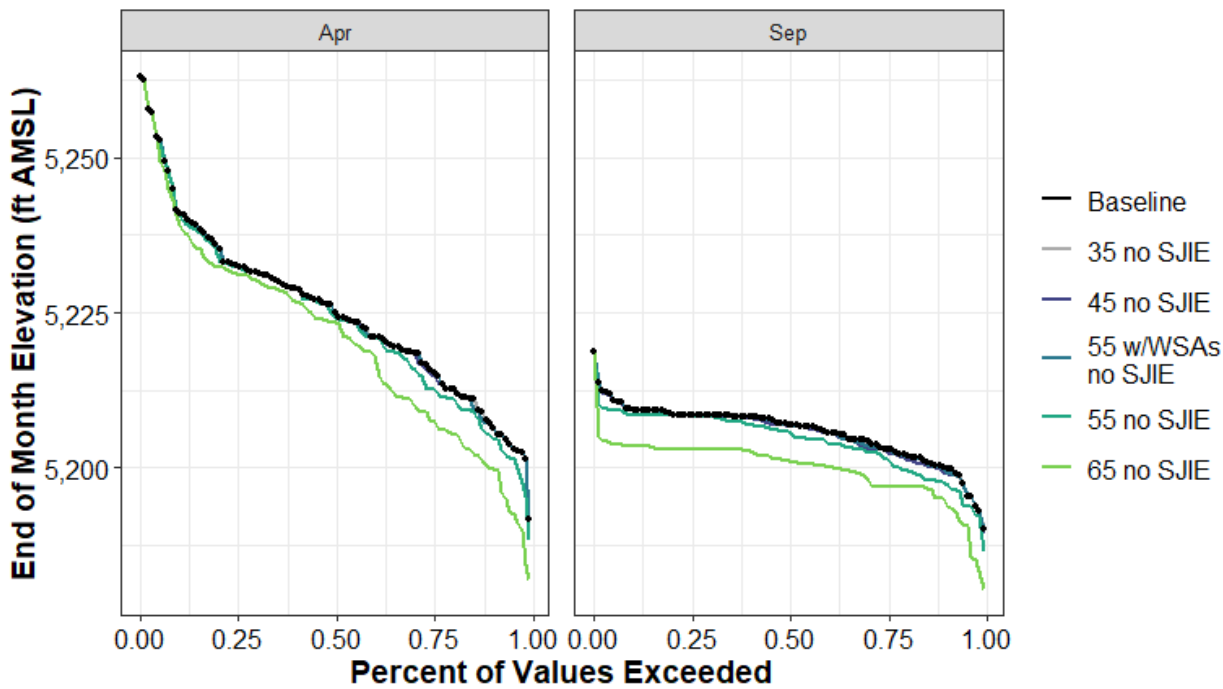

Figure H1a5-92. French Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-185. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-186. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-187. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-188. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	5,192	0	0	0	-3	-9
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

H1a5.5.15 Frenchman Lake (Feather River Watershed)

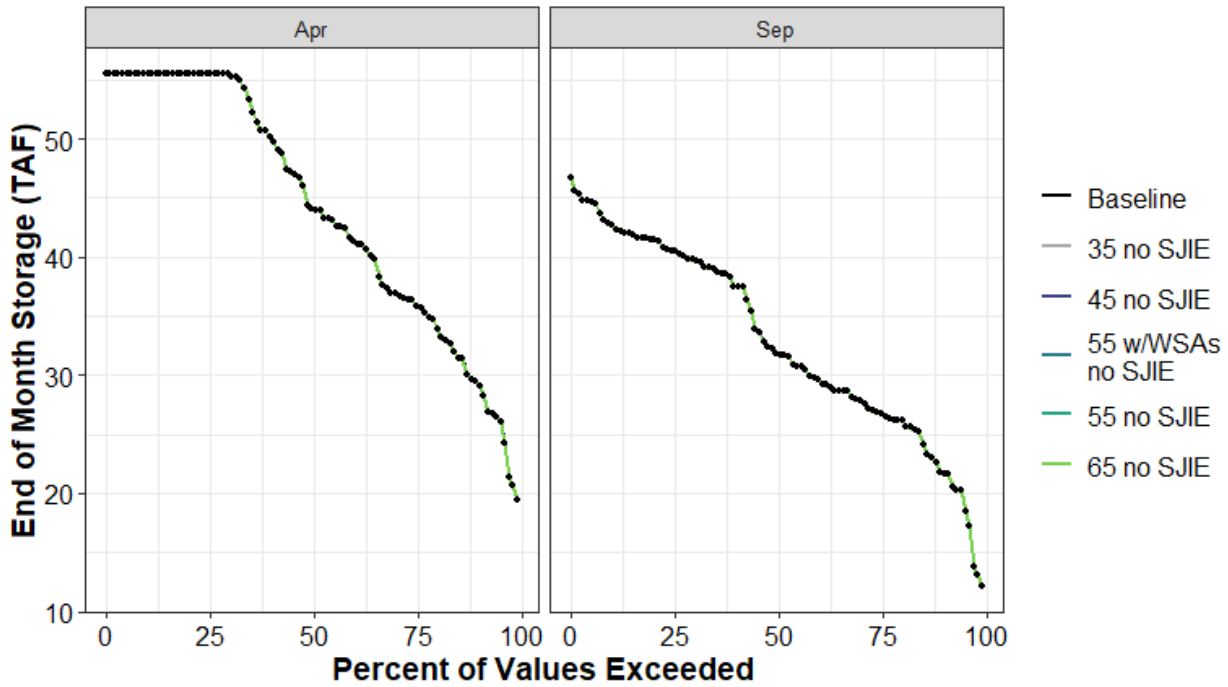

Figure H1a5-93. Frenchman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

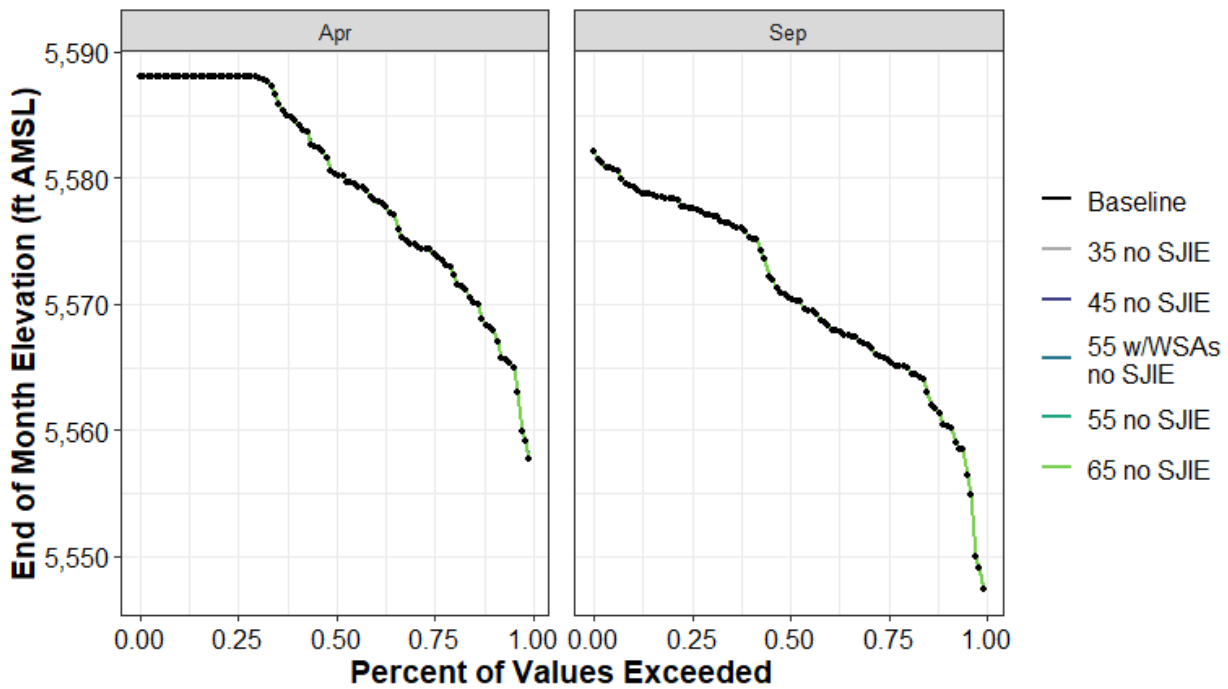

Figure H1a5-94. Frenchman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-189. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-190. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-191. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-192. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.16 Hell Hole (American River Watershed)

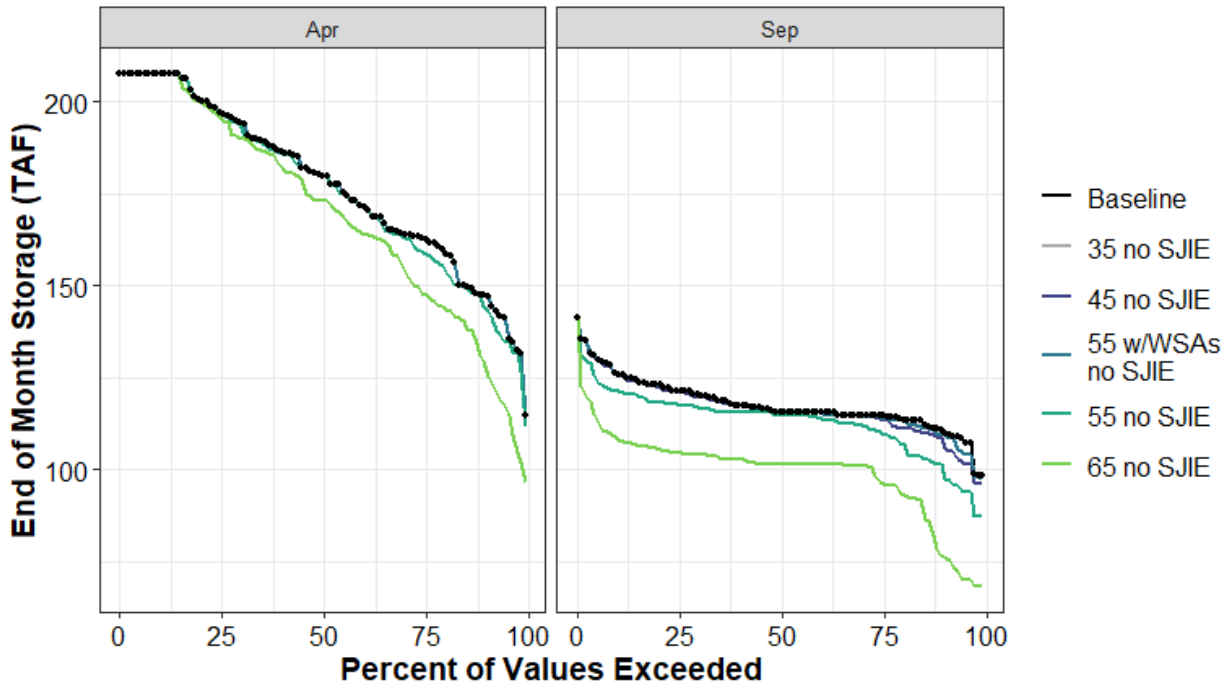

Figure H1a5-95. Hell Hole End of April and End of September Storage (TAF) Percent Exceedance Plot

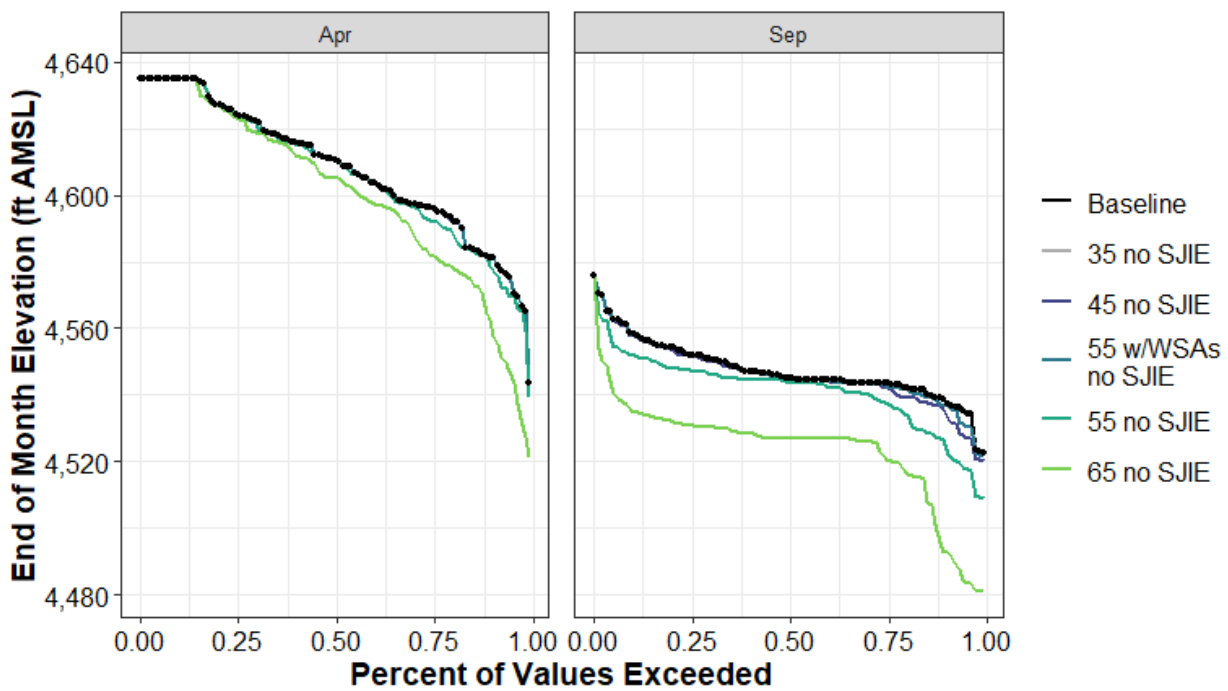

Figure H1a5-96. Hell Hole Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-193. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-194. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4,523	0	-3	-1	-14	-42
10%	4,538	-1	-3	-1	-13	-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 H1a5-195. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	115	0	0	0	-3	-18
10%	147	0	0	0	-3	-19
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 H1a5-196. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4,543	0	0	0	-4	-22
10%	4,581	0	0	0	-3	-20
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

H1a5.5.17 Ice House (American River Watershed)

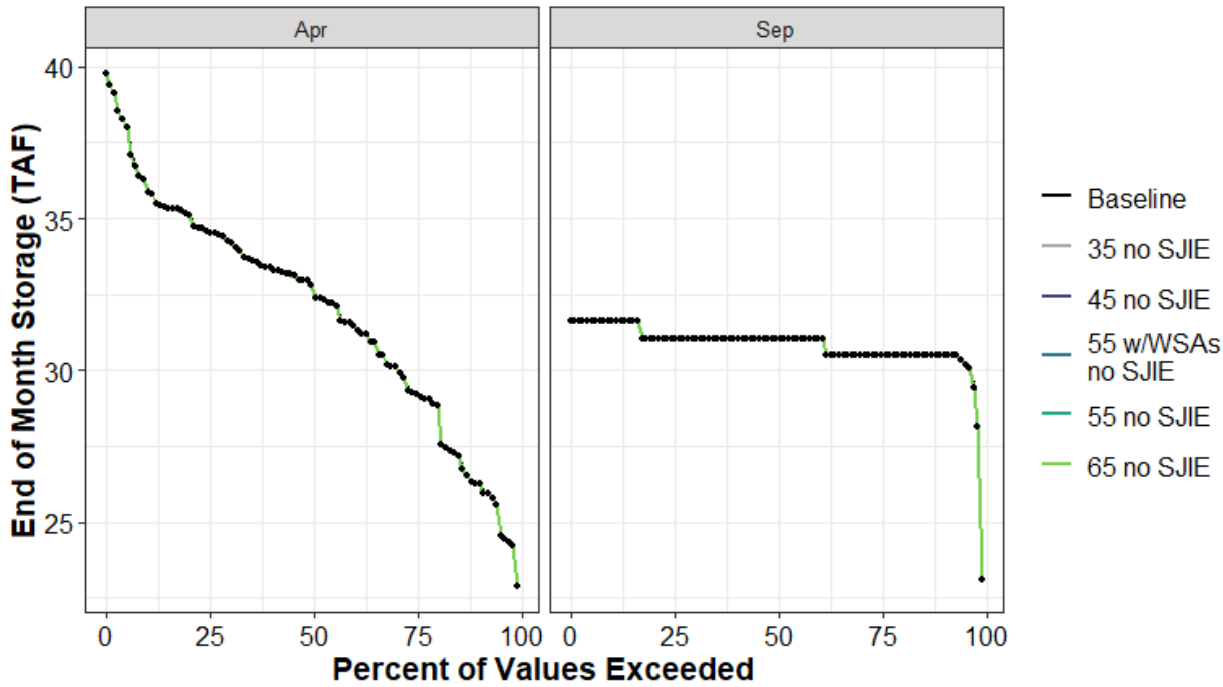

Figure H1a5-97. Ice House End of April and End of September Storage (TAF) Percent Exceedance Plot

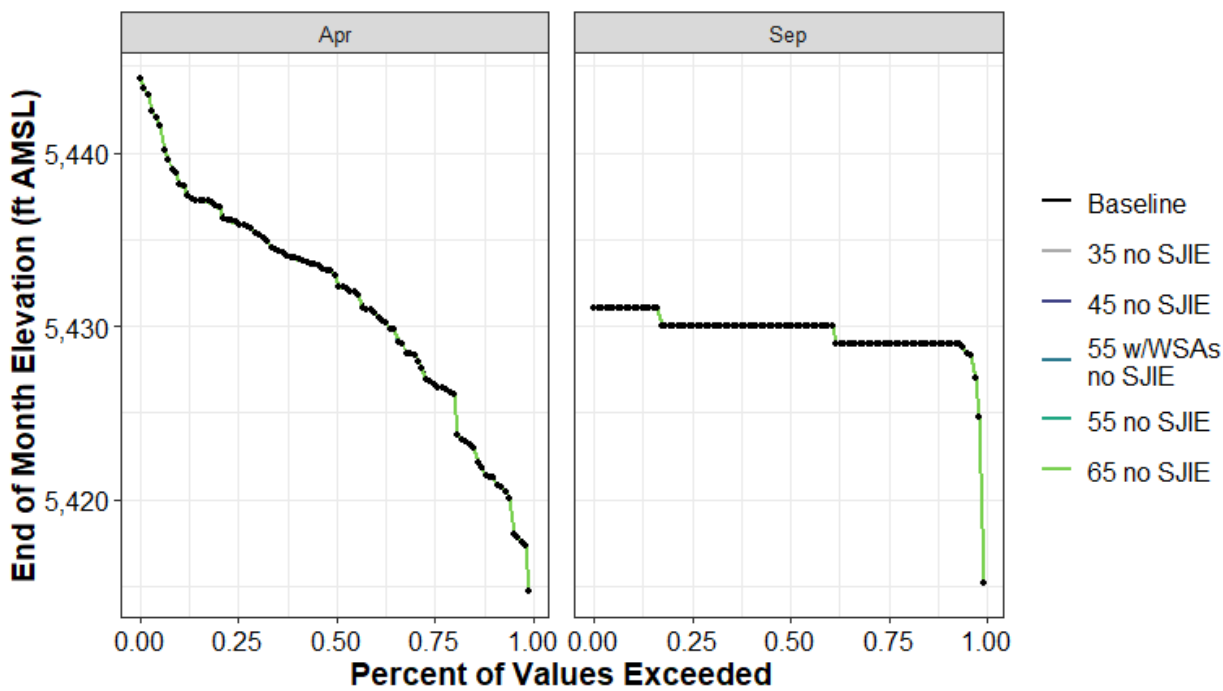

Figure H1a5-98. Ice House Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-197. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-198. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-199. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-200. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.18 Indian Valley Reservoir (Cache Creek Watershed)

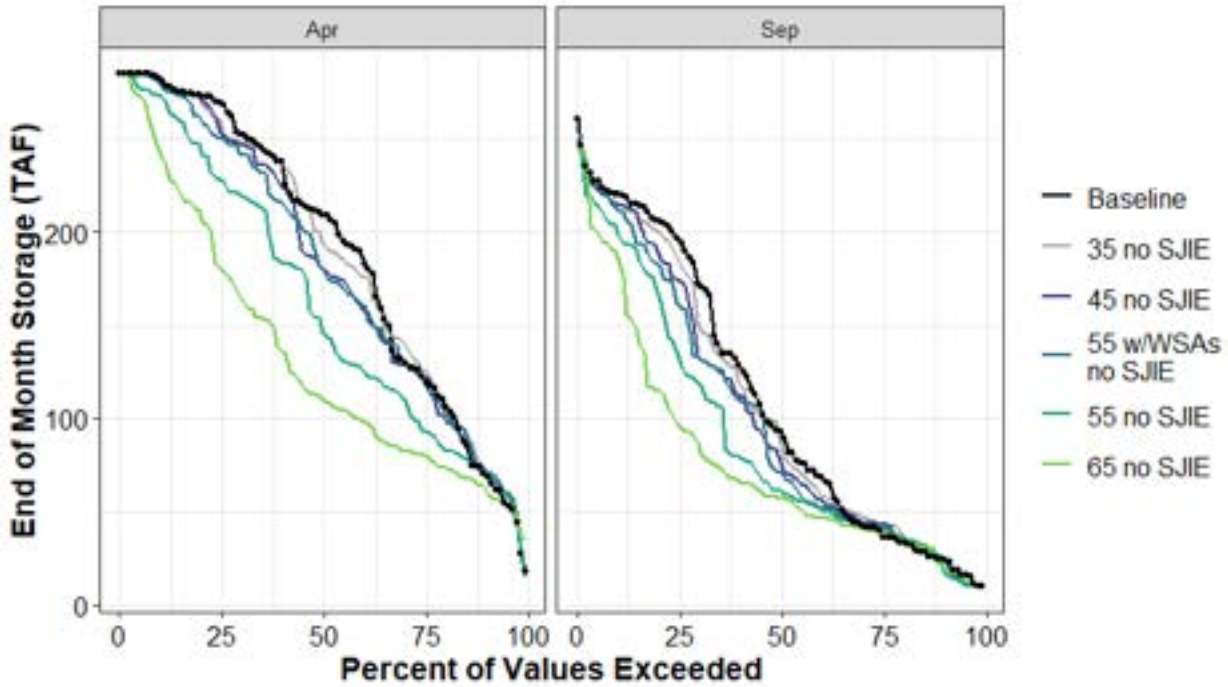

Figure H1a5-99. Indian Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

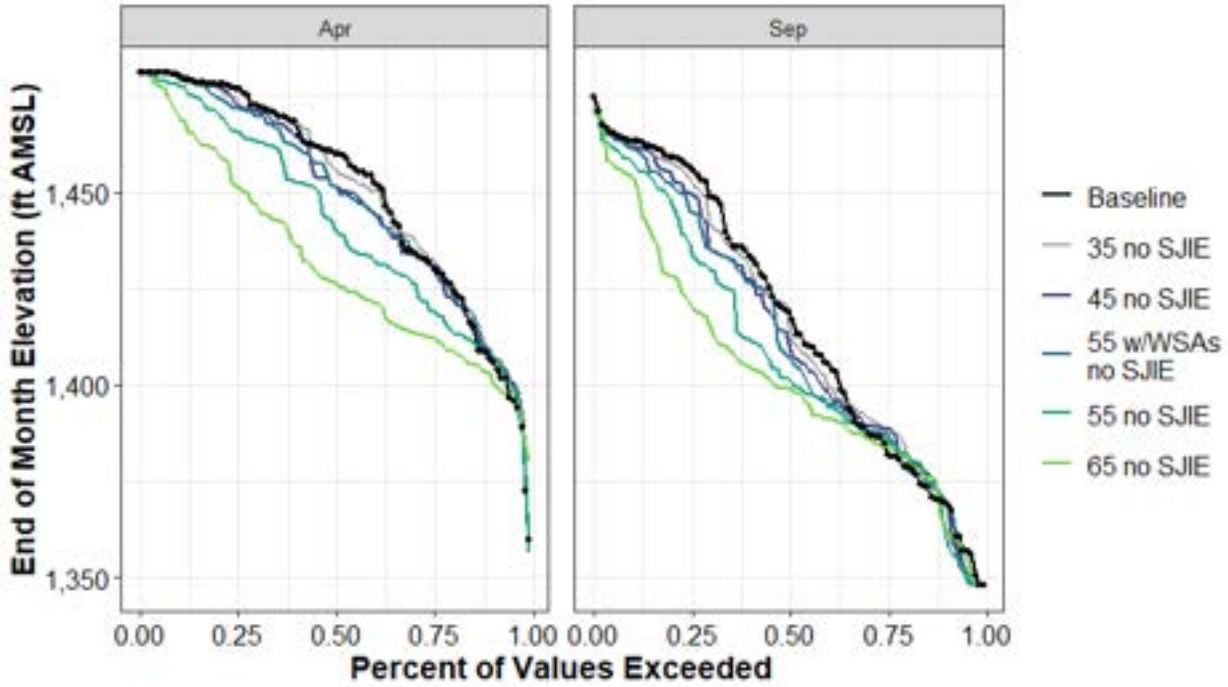

Figure H1a5-100. Indian Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-201. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	-31	-35
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 H1a5-202. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-203. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-204. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,360	-2	-3	-3	-3	20
10%	1,406	2	2	1	1	-4
25%	1,431	2	0	-1	-12	-19
50%	1,460	-4	-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

H1a5.5.19 Jackson Meadows Reservoir (Yuba River Watershed)

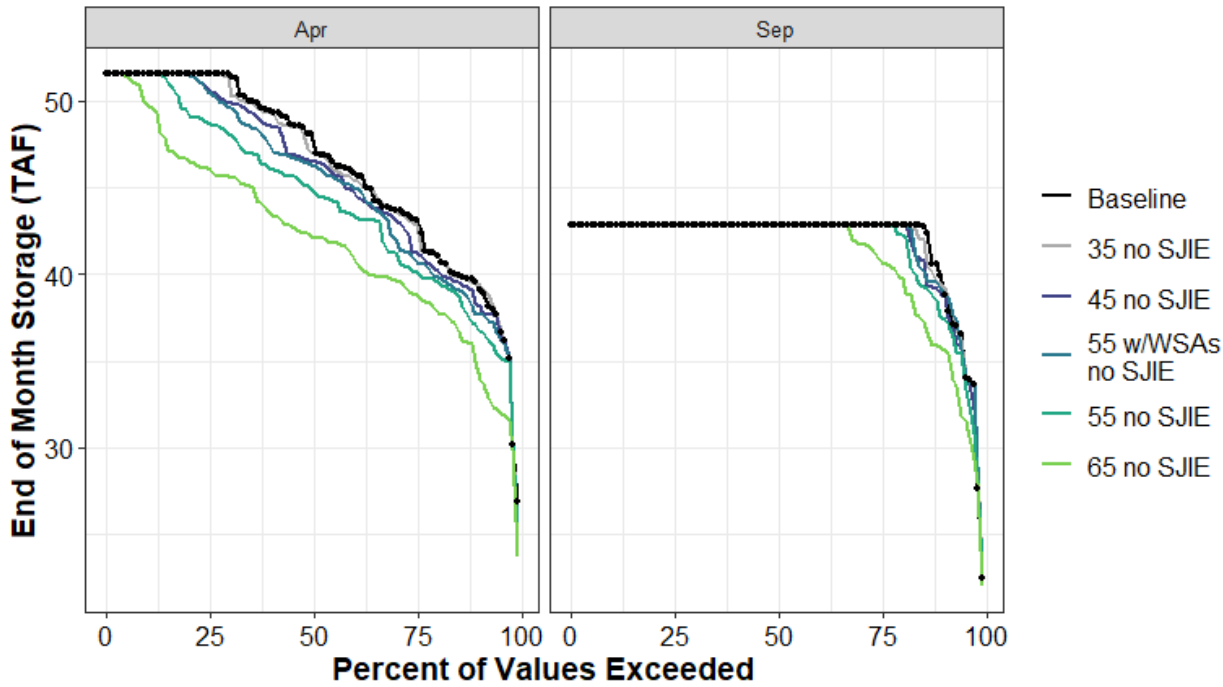

Figure H1a5-101. Jackson Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

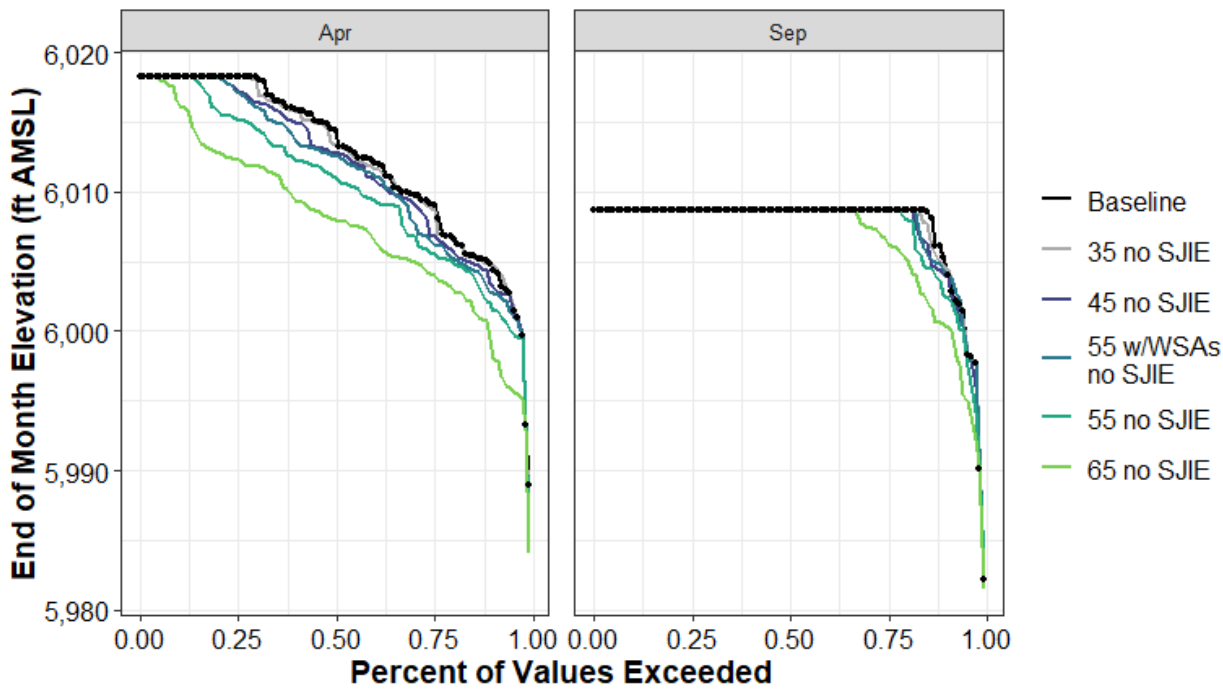

Figure H1a5-102. Jackson Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-205. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-206. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-207. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-208. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.20Jenkinson Lake (Cosumnes River Watershed)

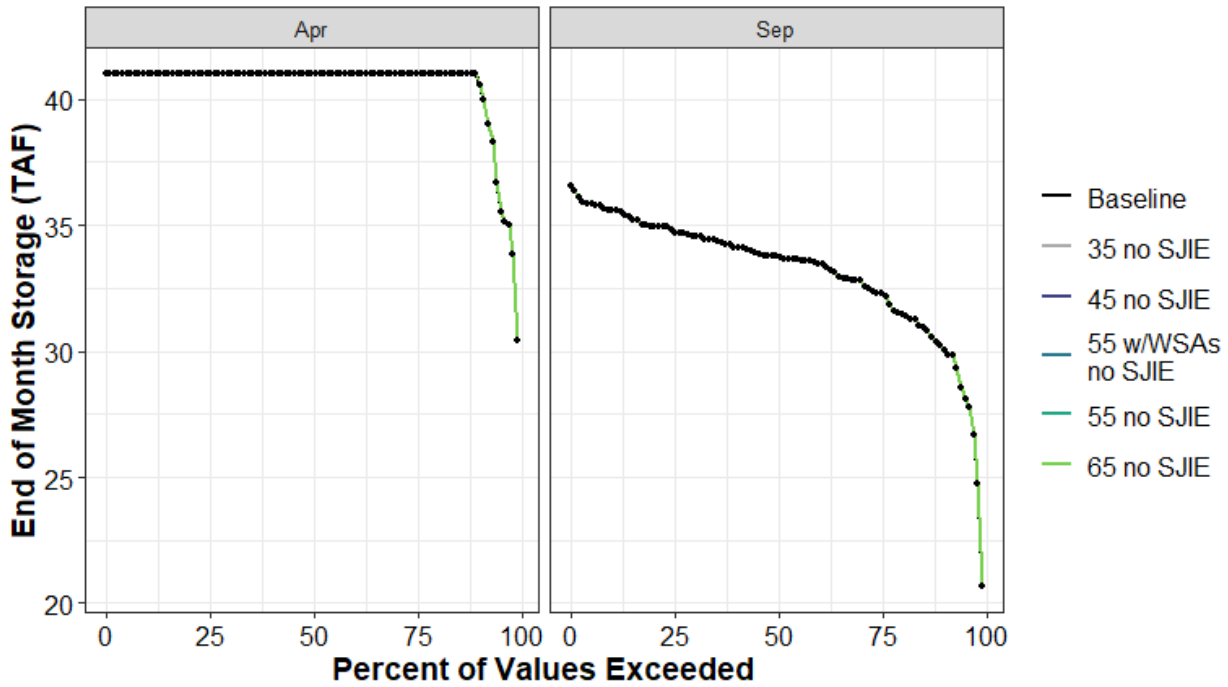

Figure H1a5-103. Jenkinson Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-209. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-210. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.21 Lake Almanor (Feather River Watershed)

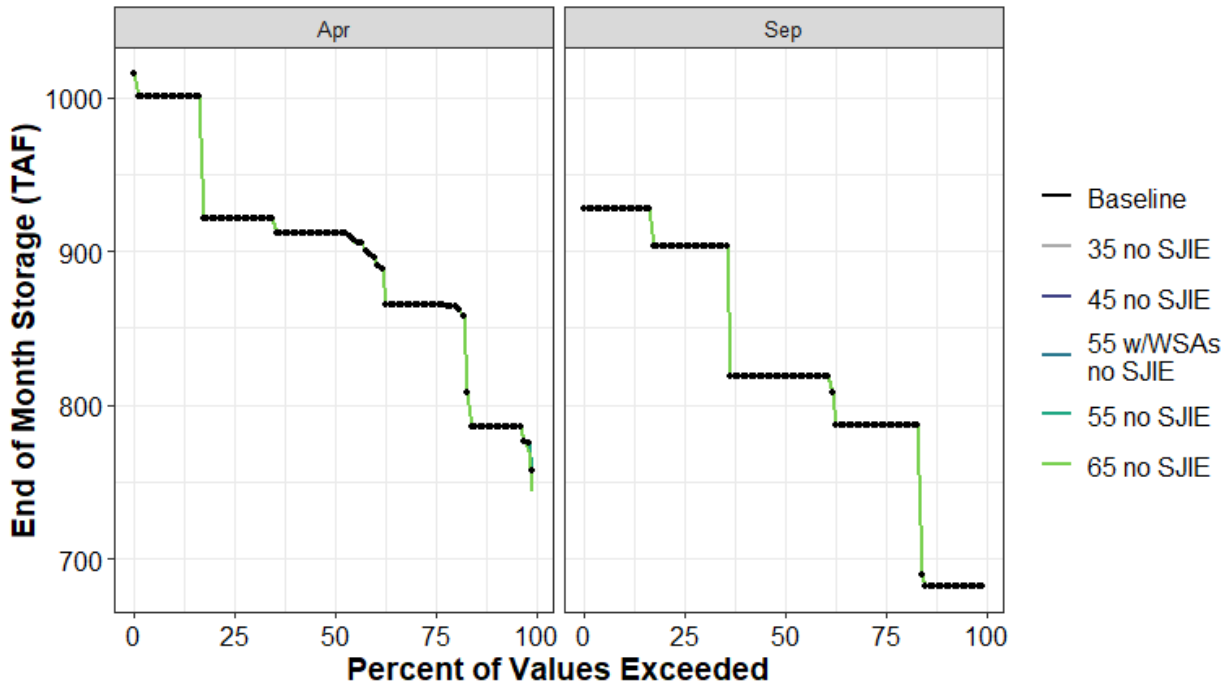

Figure H1a5-104. Lake Almanor End of April and End of September Storage (TAF) Percent Exceedance Plot

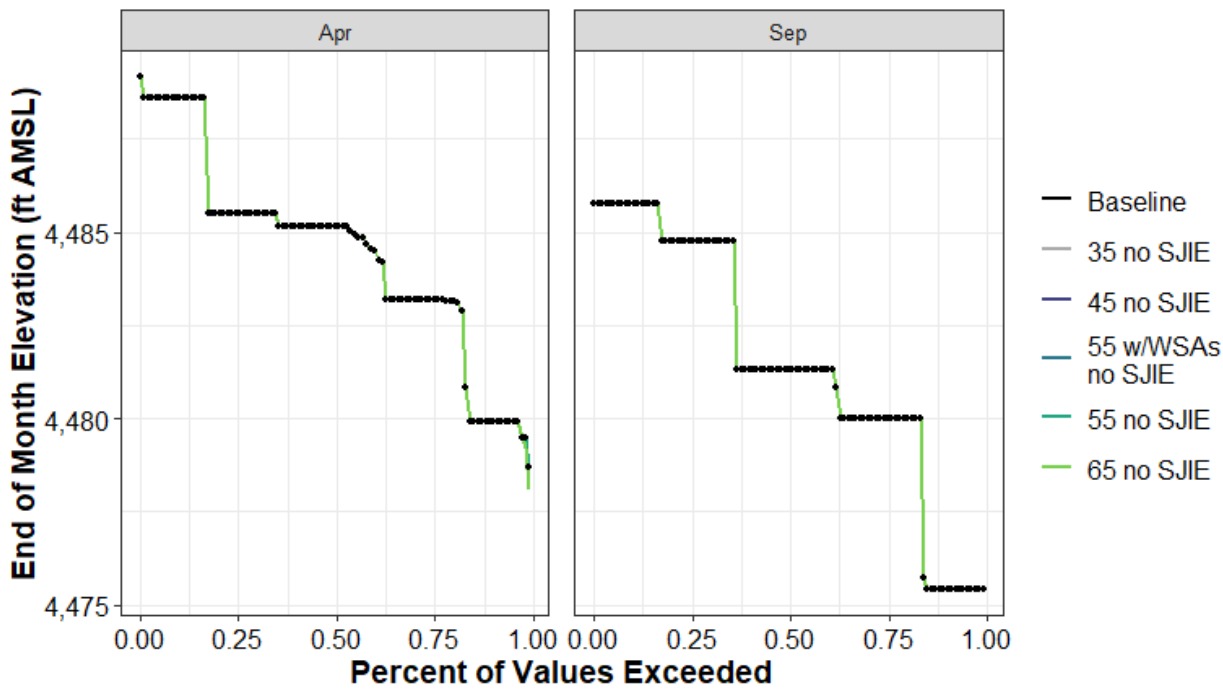

Figure H1a5-105. Lake Almanor Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-211. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-212. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-213. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-214. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.22 Lake Aloha (American River Watershed)

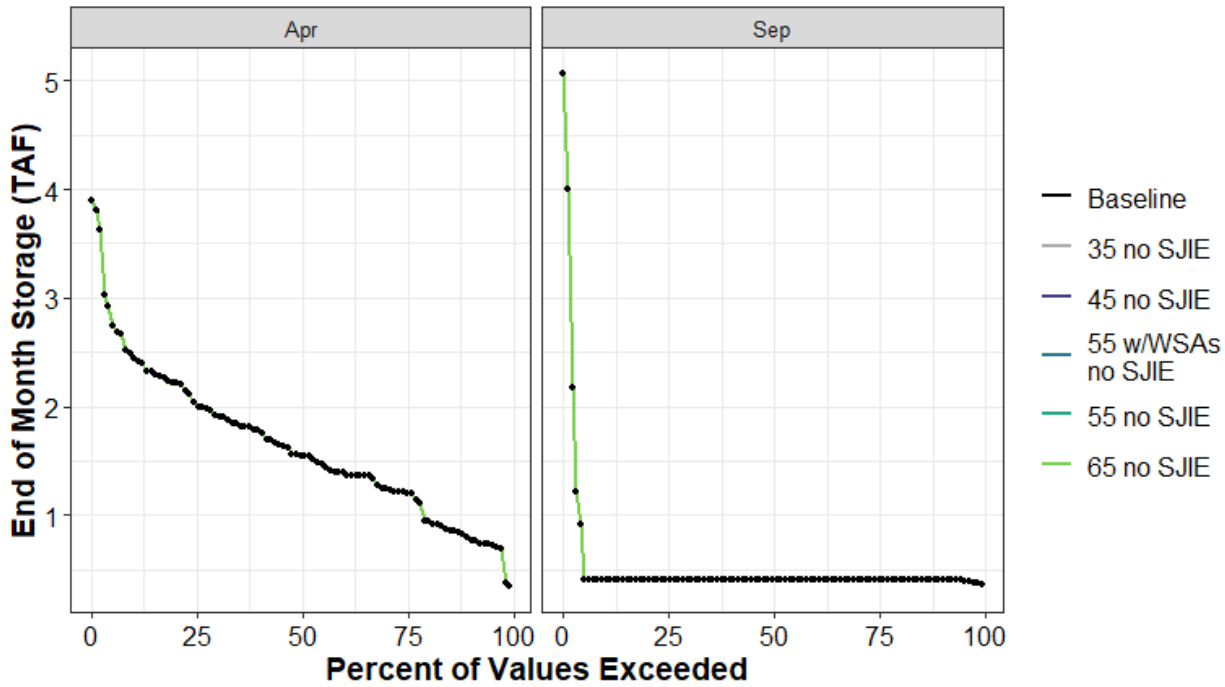

Figure H1a5-106. Lake Aloha End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-215. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-216. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.23 Lake Amador (Mokelumne River Watershed)

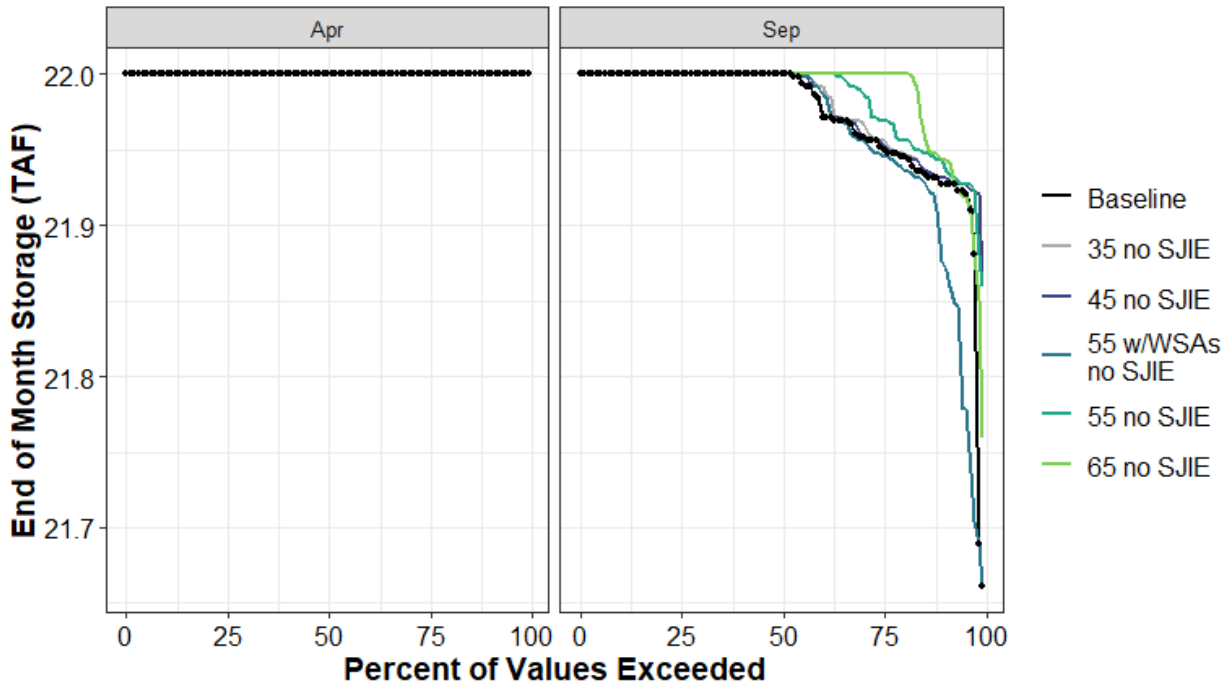

Figure H1a5-107. Lake Amador End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-217. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-218. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.24 Lake Berryessa (Putah Creek Watershed)

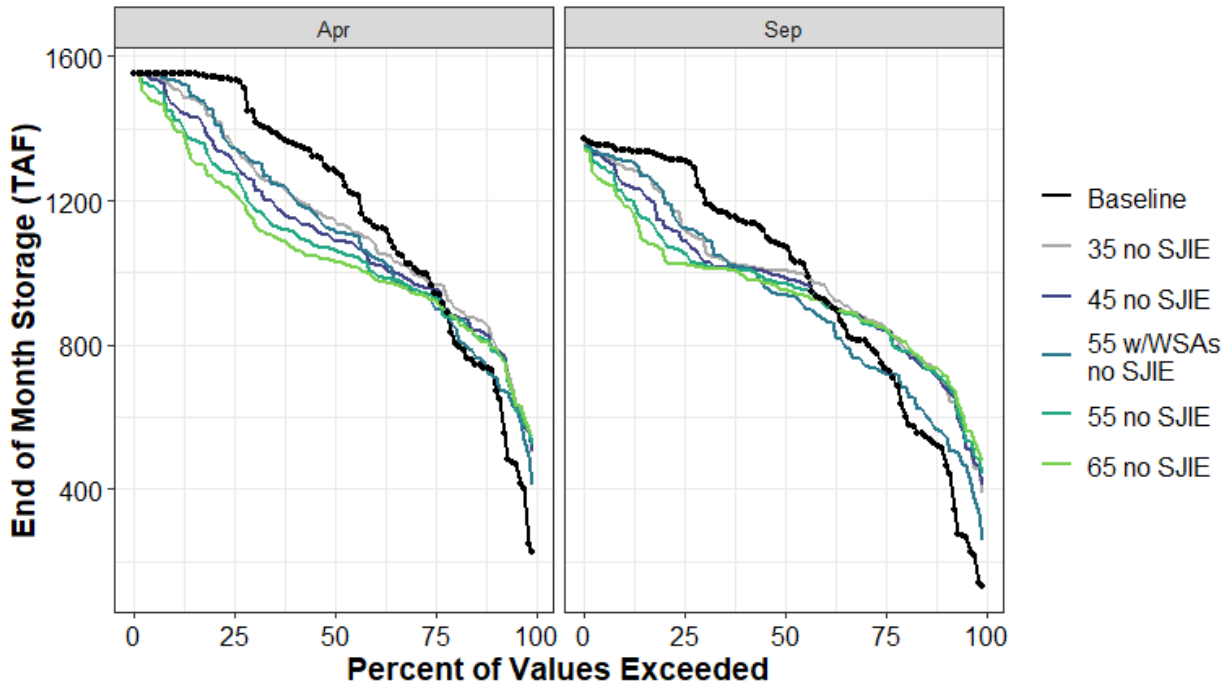

Figure H1a5-108. Lake Berryessa End of April and End of September Storage (TAF) Percent Exceedance Plot

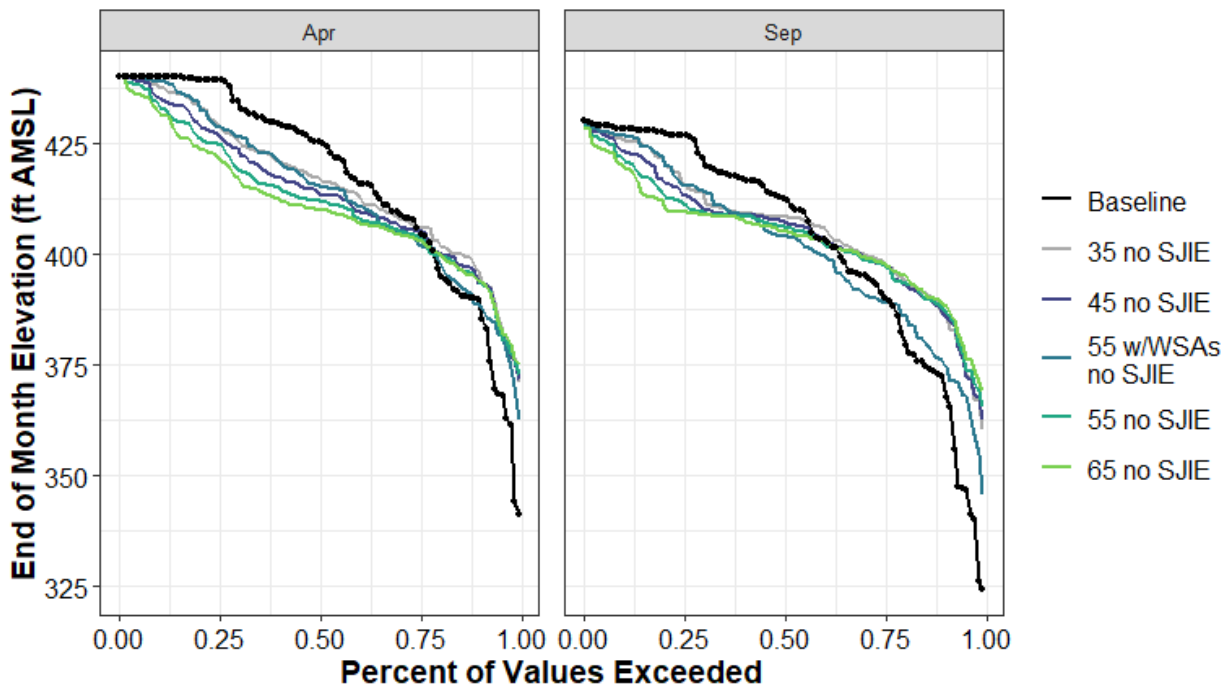

Figure H1a5-109. Lake Berryessa Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-219. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	130	260	281	129	310	348
10%	505	187	184	50	200	217
25%	744	108	100	-20	102	106
50%	1,073	-67	-84	-134	-102	-119
75%	1,312	-189	-223	-189	-257	-289
90%	1,342	-50	-96	-31	-130	-155
100%	1,370	-9	-15	-14	-20	-26
Mean	969	13	-7	-43	-20	-28

Table H1a5-220. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	-7
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 H1a5-221. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	227	274	280	183	295	319
10%	720	95	66	-4	66	69
25%	955	13	0	-44	-19	-30
50%	1,286	-135	-199	-166	-221	-253
75%	1,536	-188	-228	-191	-261	-315
90%	1,551	-43	-87	-19	-121	-147
100%	1,551	0	0	0	0	0
Mean	1,178	-33	-70	-59	-99	-121

Table H1a5-222. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.25 Lake Davis (Feather River Watershed)

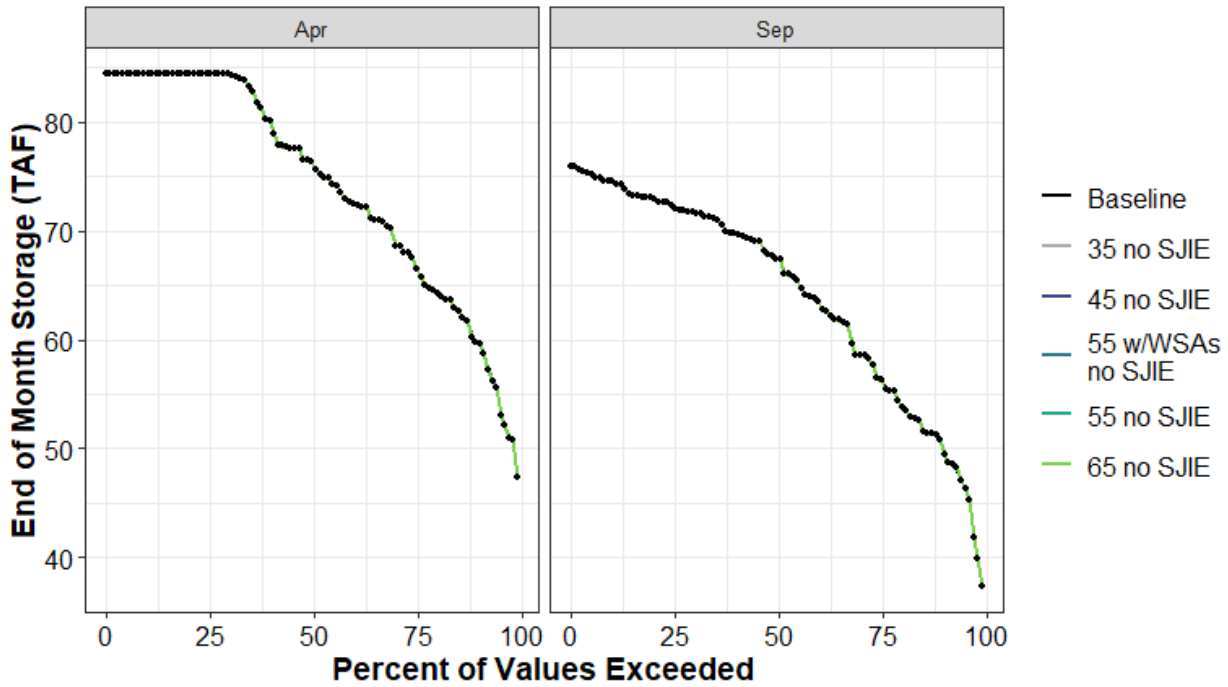

Figure H1a5-110. Lake Davis End of April and End of September Storage (TAF) Percent Exceedance Plot

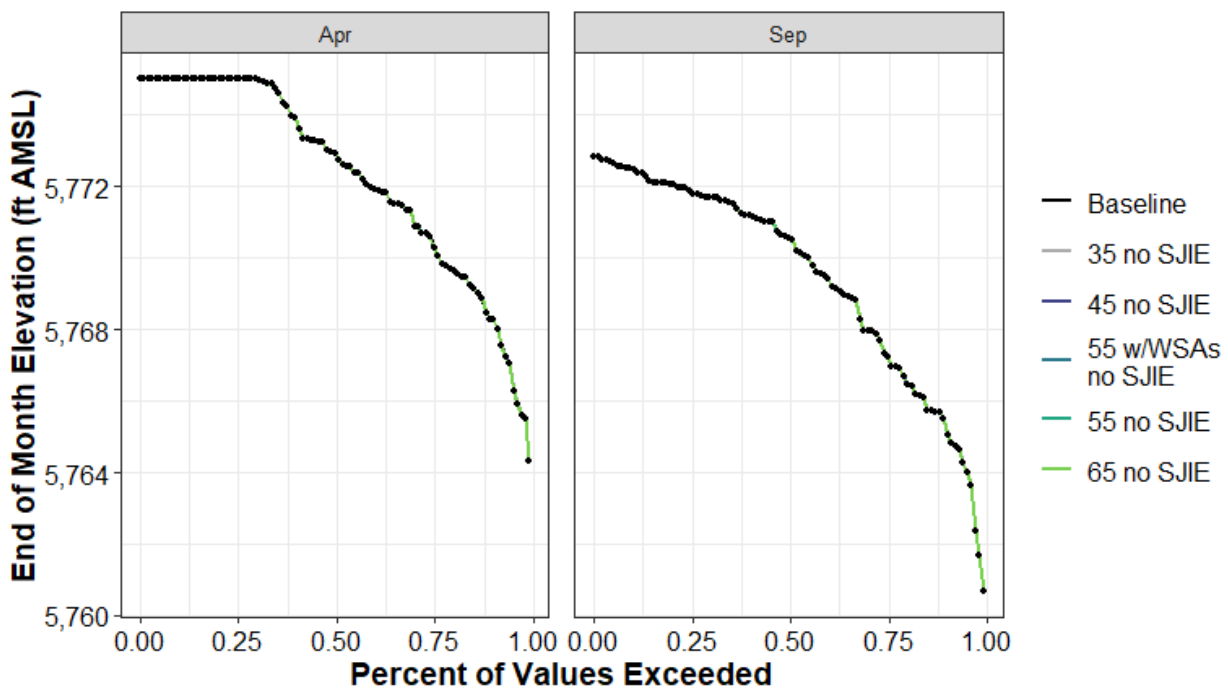

Figure H1a5-111. Lake Davis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-223. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-224. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-225. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-226. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.26 Lake Fordyce (Yuba River Watershed)

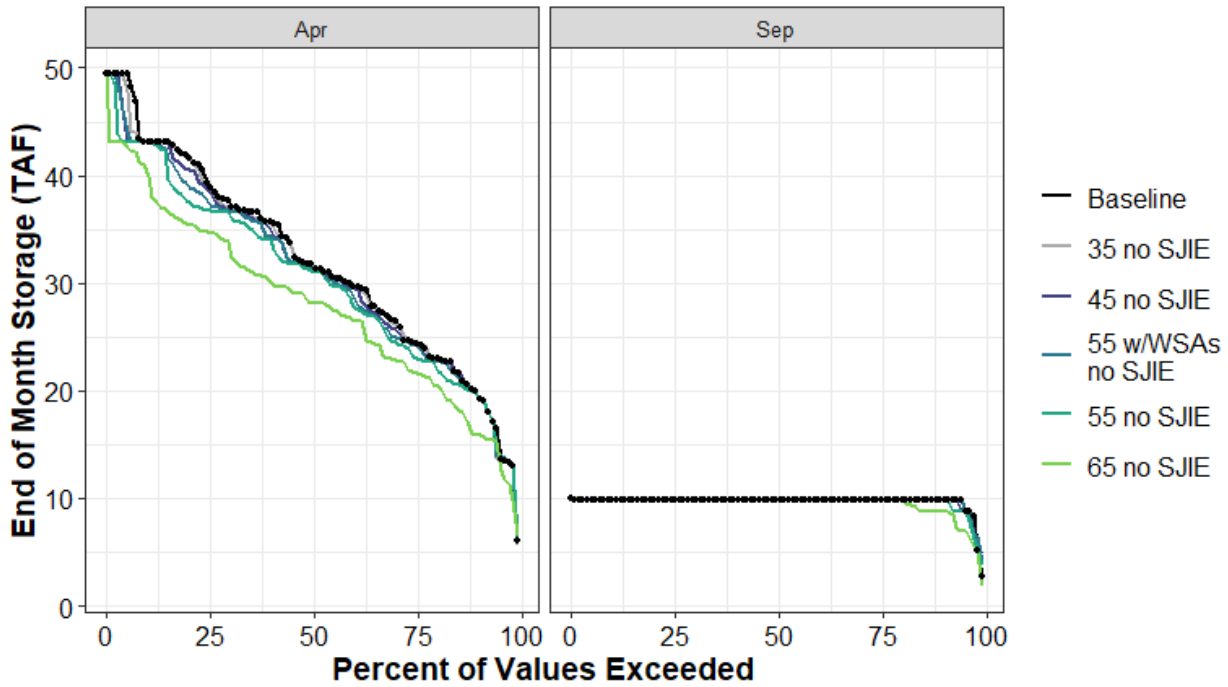

Figure H1a5-112. Lake Fordyce End of April and End of September Storage (TAF) Percent Exceedance Plot

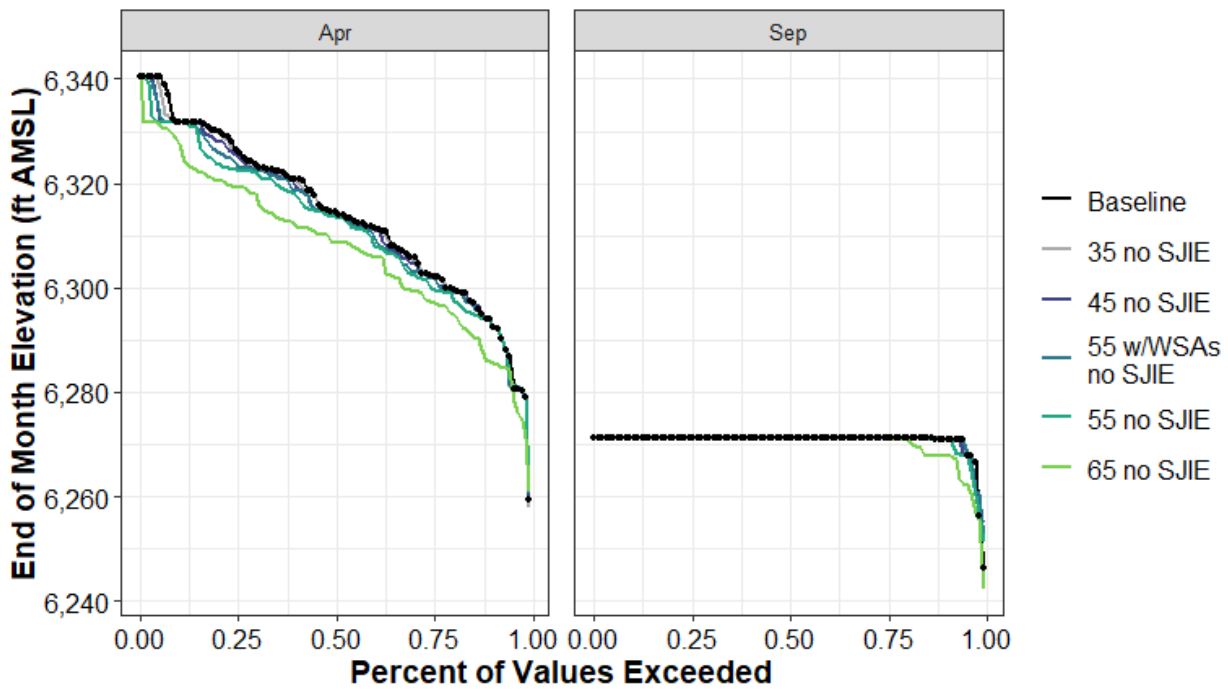

Figure H1a5-113. Lake Fordyce Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-227. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-228. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-229. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-230. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	6,259	-1	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

H1a5.5.27 Lake Spaulding (Yuba River Watershed)

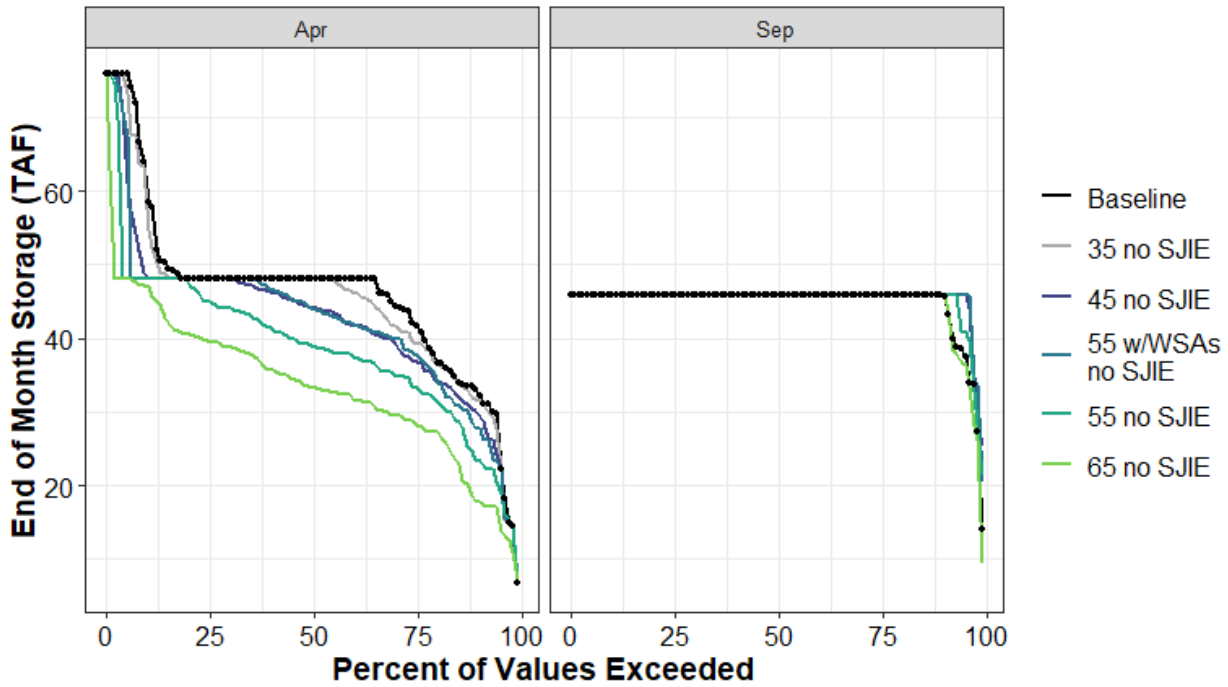

Figure H1a5-114. Lake Spaulding End of April and End of September Storage (TAF) Percent Exceedance Plot

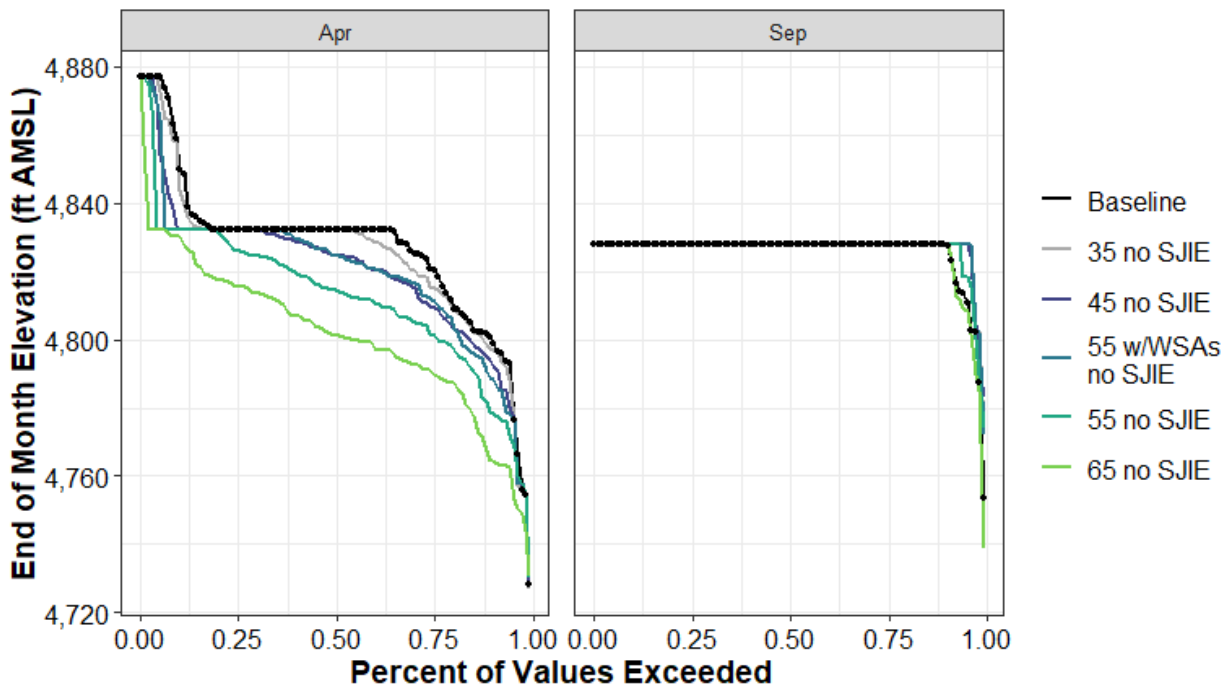

Figure H1a5-115. Lake Spaulding Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-231. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-232. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-233. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	7	0	0	0	0	1
10%	33	-1	-3	-5	-9	-15
25%	42	-2	-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 H1a5-234. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4,728	-2	0	2	2	2
10%	4,800	-3	-7	-11	-21	-36
25%	4,821	-5	-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

H1a5.5.28 Lake Valley (American River Watershed)

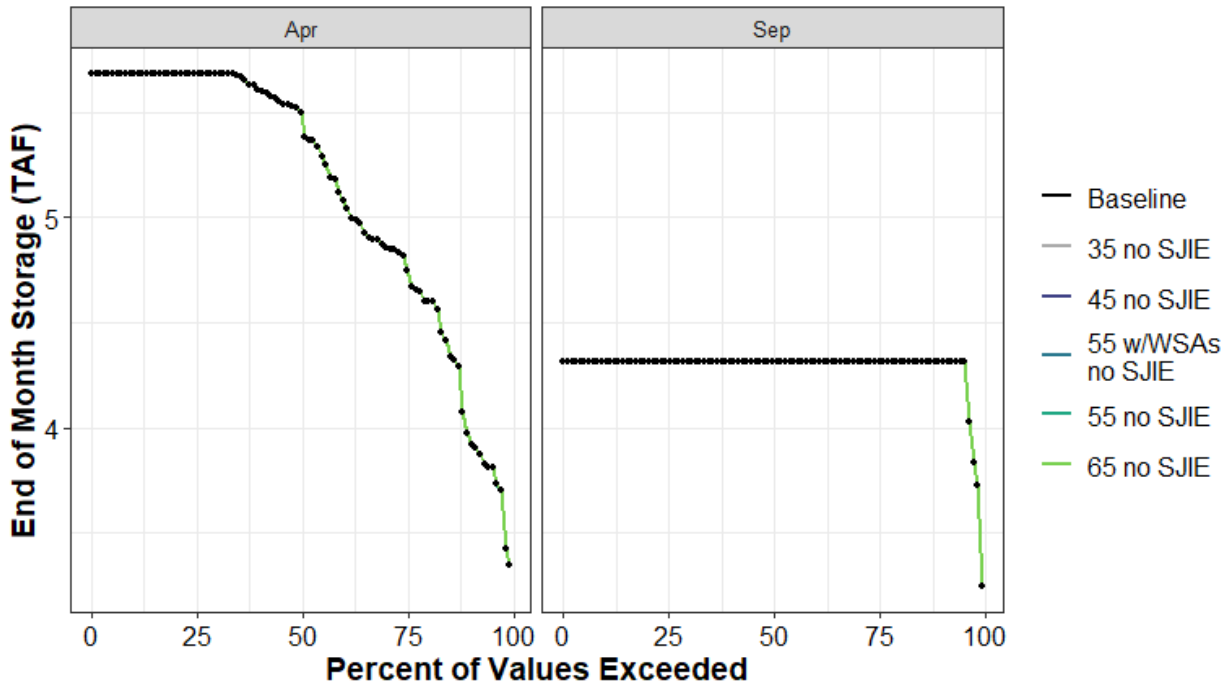

Figure H1a5-116. Lake Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-235. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-236. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.29 Little Grass Valley Reservoir (Feather River Watershed)

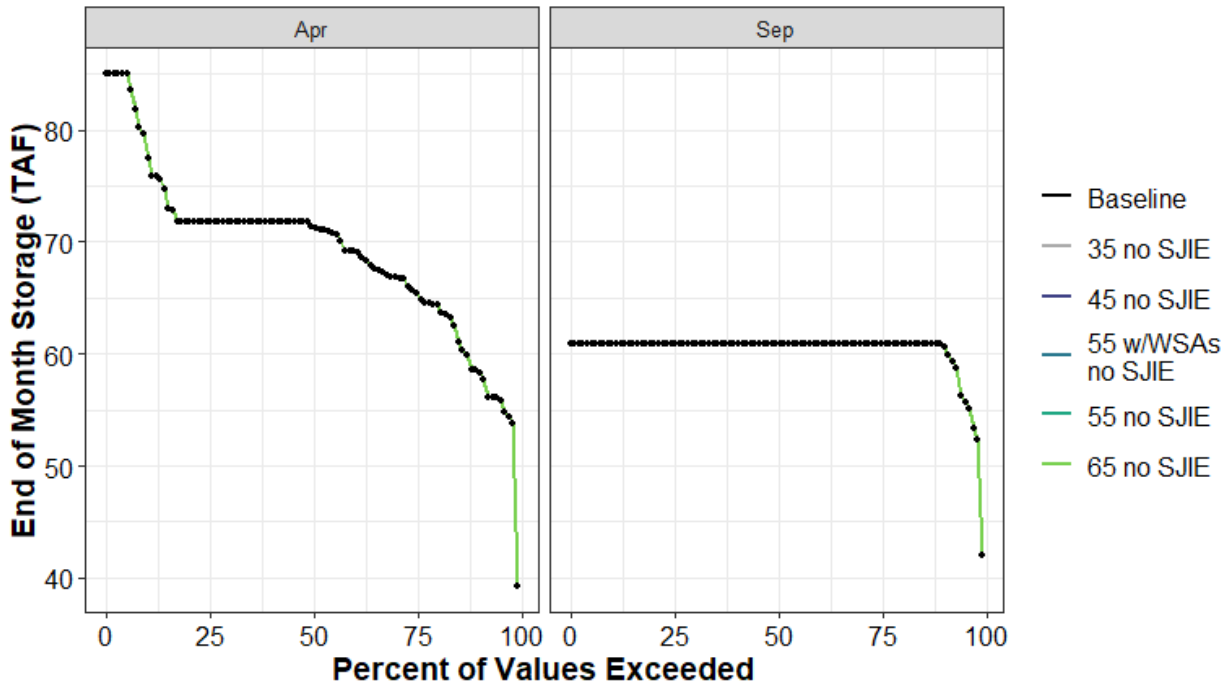

Figure H1a5-117. Little Grass Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

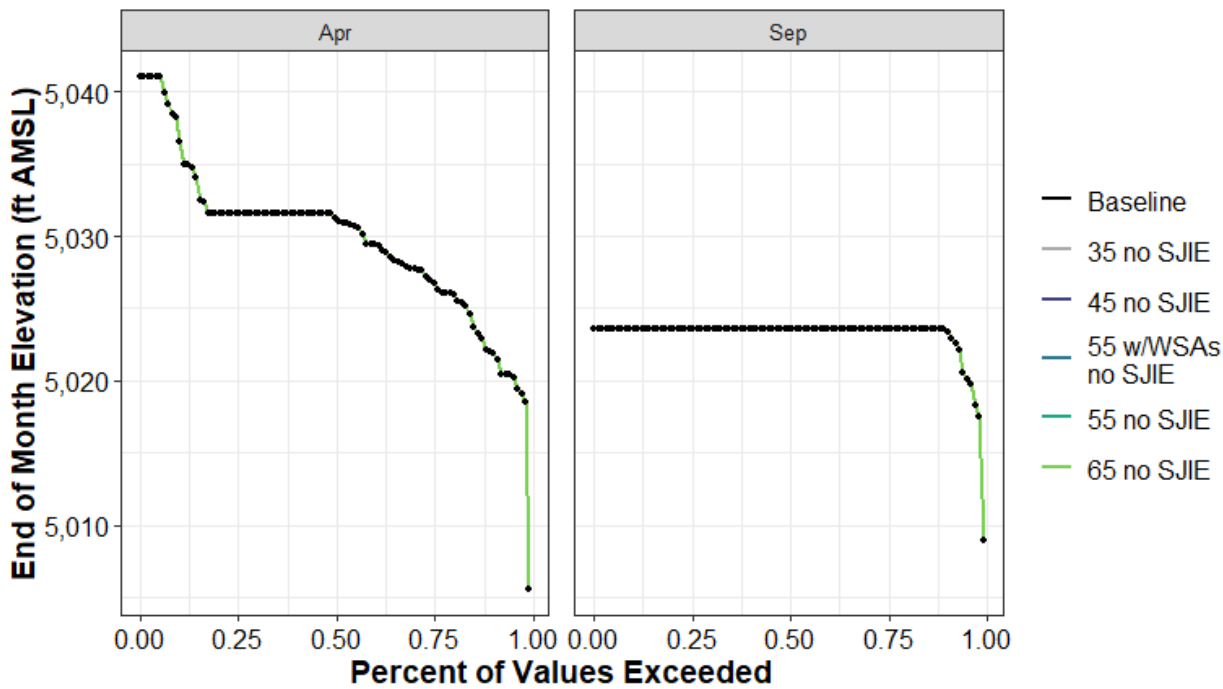

Figure H1a5-118. Little Grass Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-237. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-238. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-239. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-240. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.30 Loon Lake (American River Watershed)

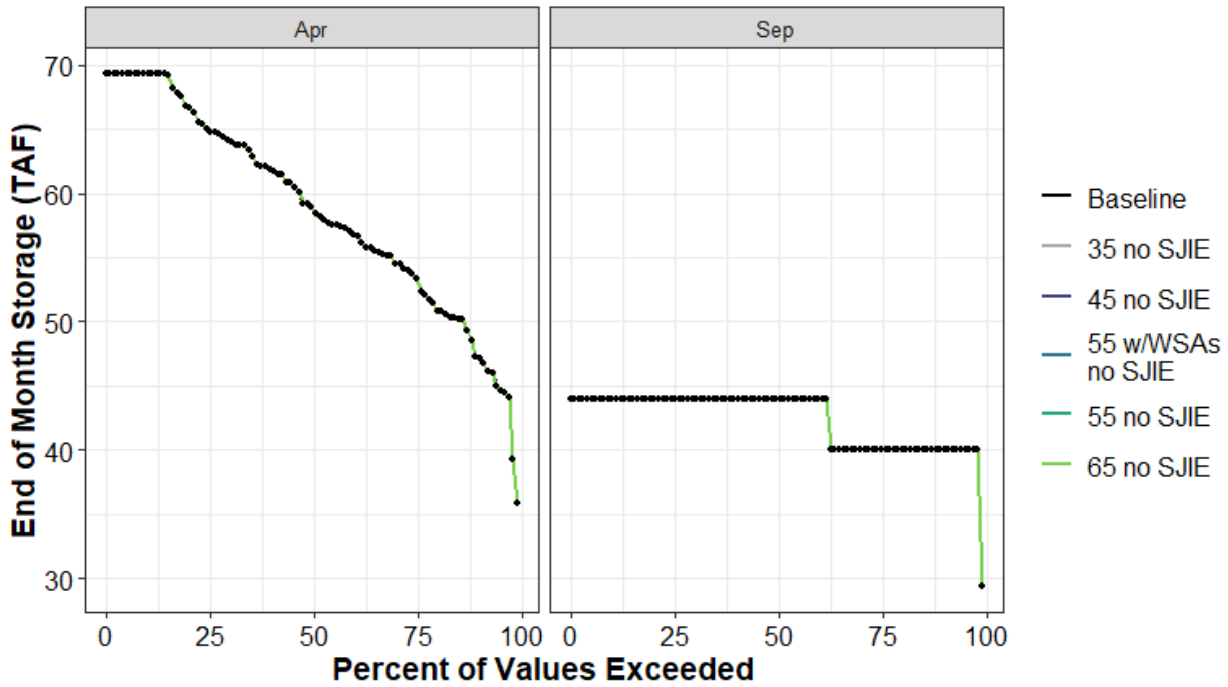

Figure H1a5-119. Loon Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

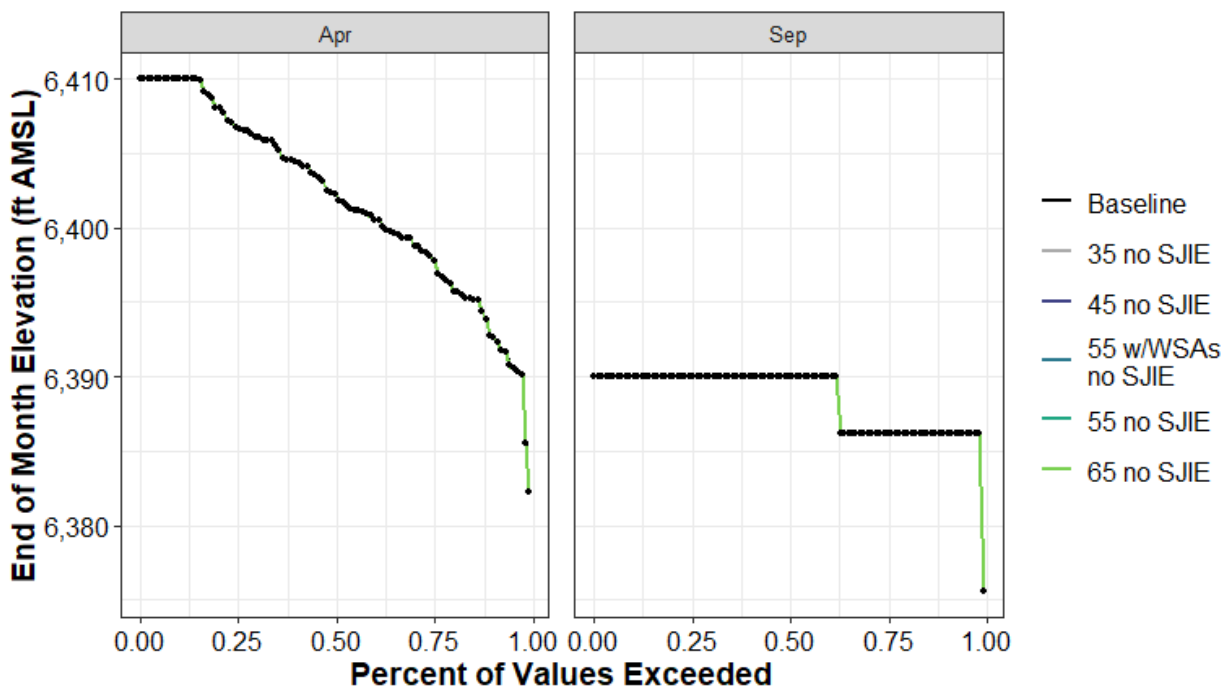

Figure H1a5-120. Loon Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-241. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-242. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-243. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-244. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.31 Los Vaqueros Reservoir (Kellogg Creek Watershed)

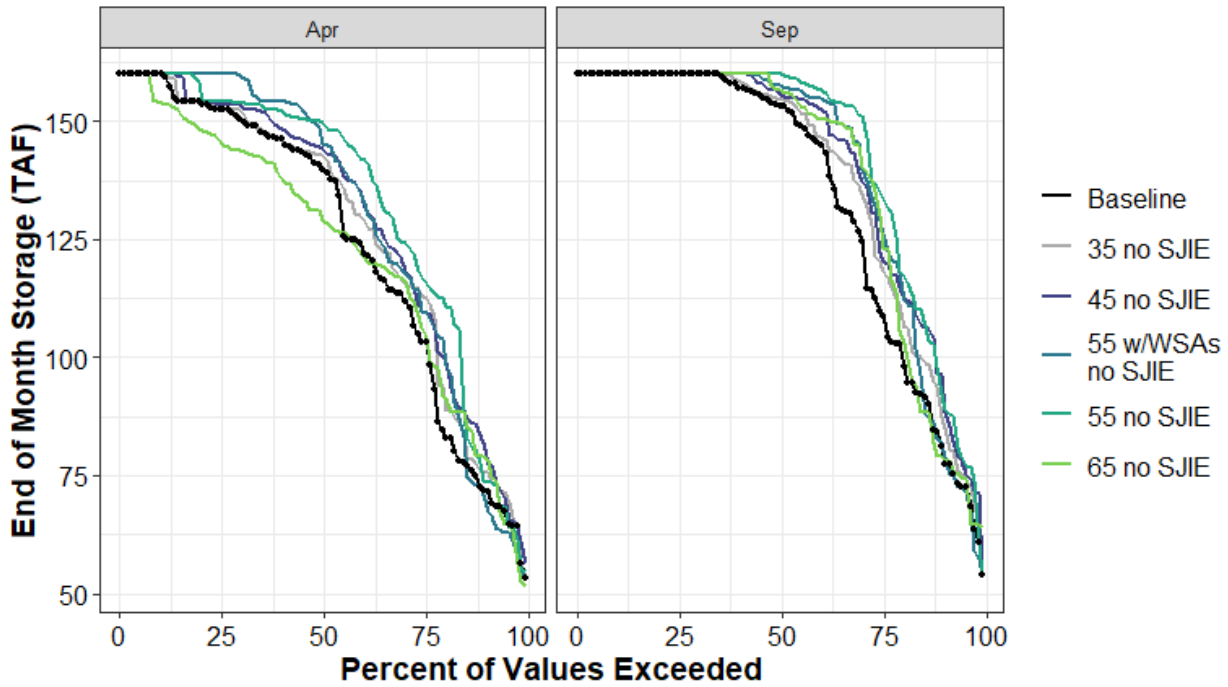

Figure H1a5-121. Los Vaqueros Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

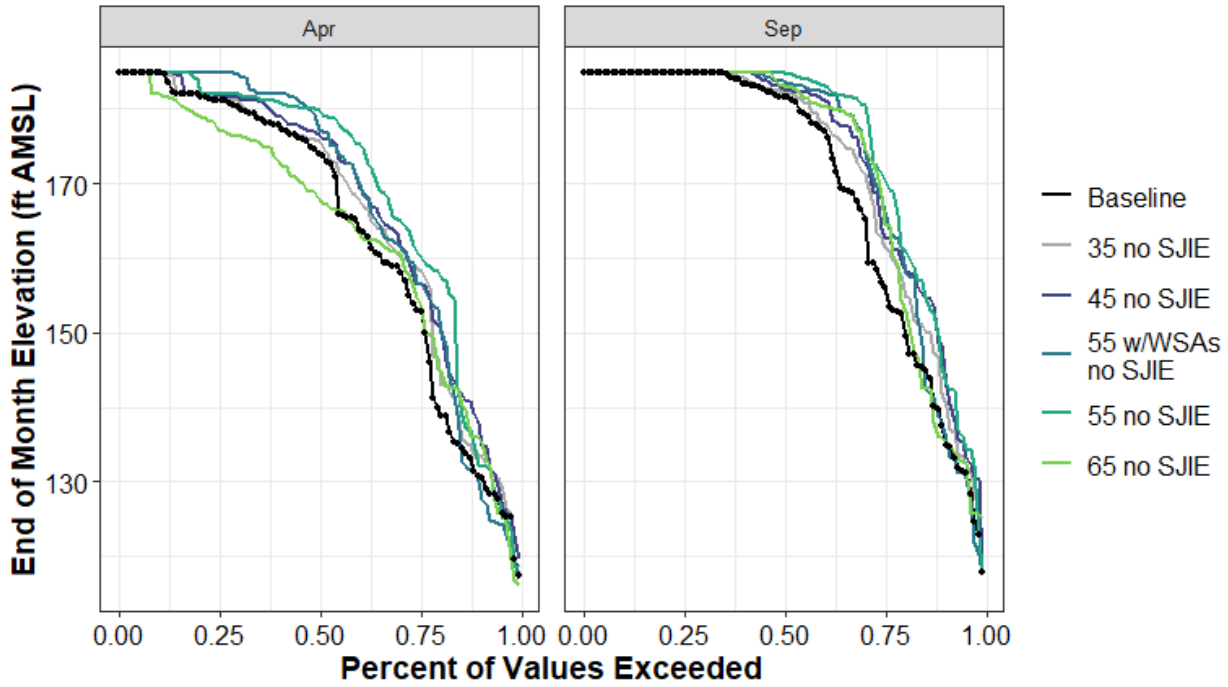

Figure H1a5-122. Los Vaqueros Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-245. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-246. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-247. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-248. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.32 Lower Bear (Mokelumne River Watershed)

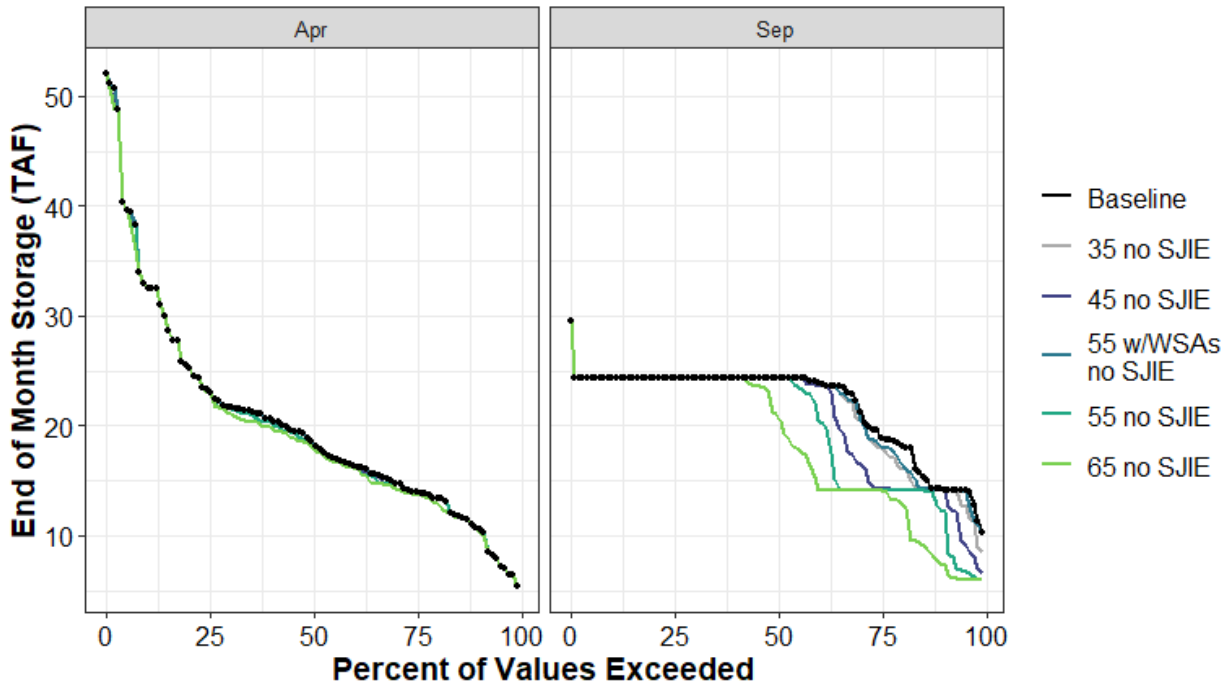

Figure H1a5-123. Lower Bear End of April and End of September Storage (TAF) Percent Exceedance Plot

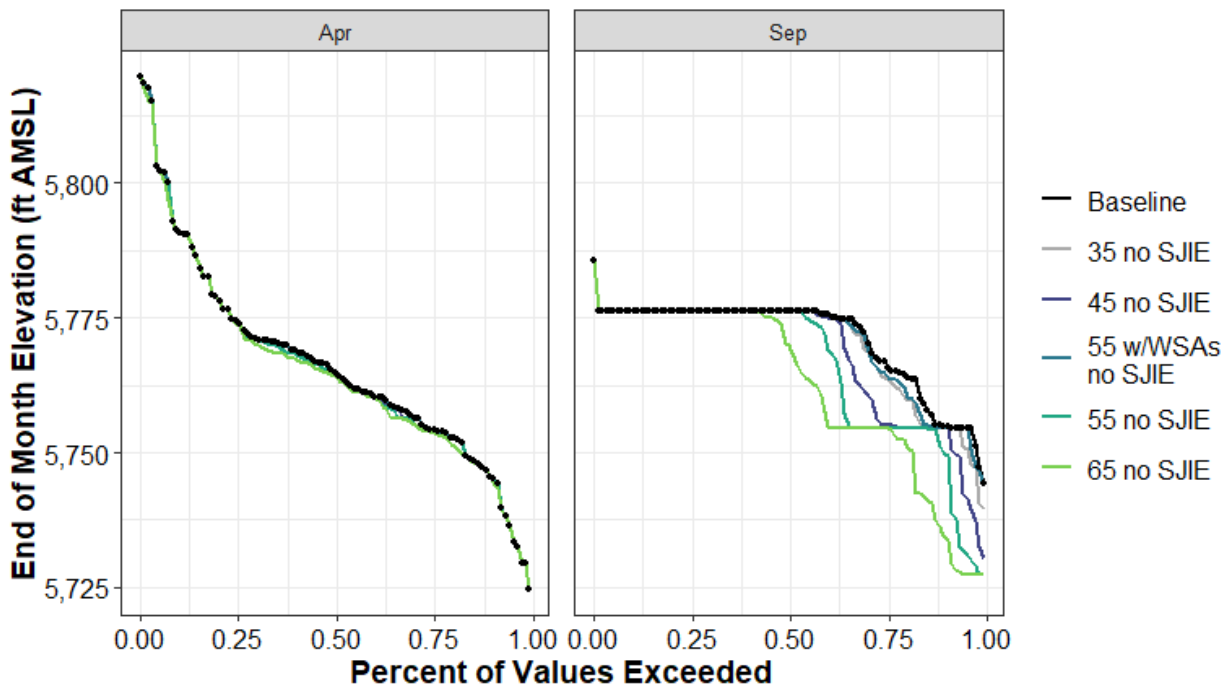

Figure H1a5-124. Lower Bear Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-249. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-250. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-251. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-252. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.33 Merle Collins Reservoir (Yuba River Watershed)

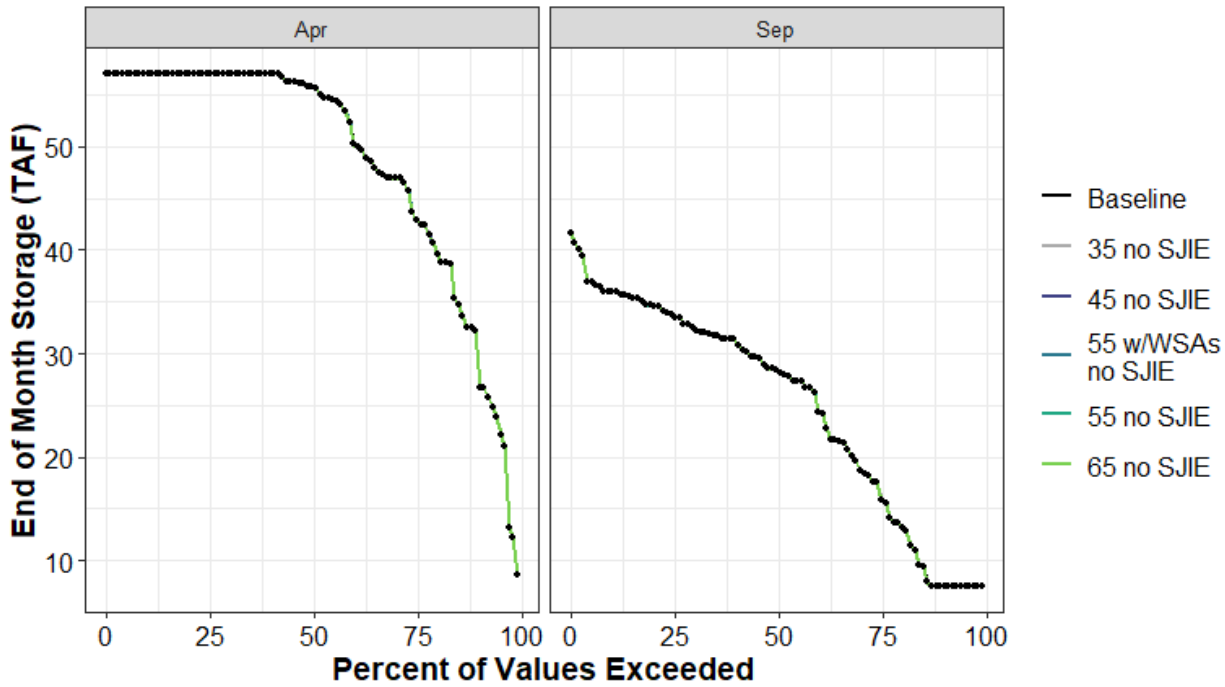

Figure H1a5-125. Merle Collins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

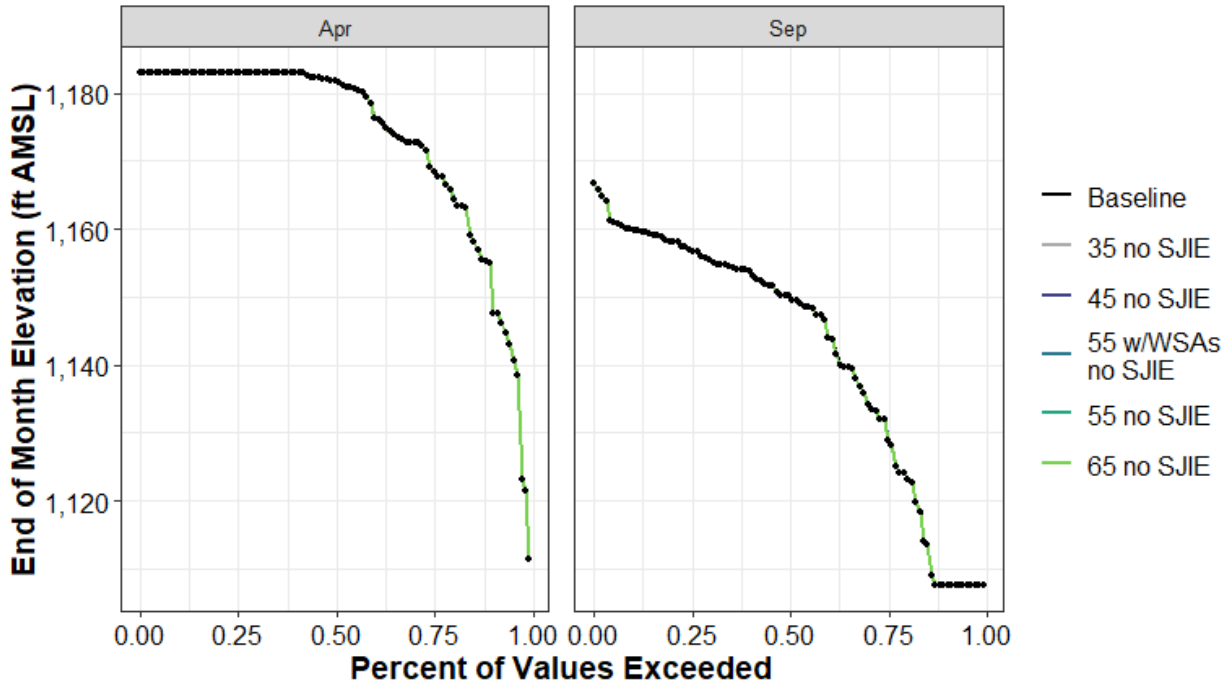

Figure H1a5-126. Merle Collins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-253. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-254. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-255. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-256. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.34 Mountain Meadows Reservoir (Feather River Watershed)

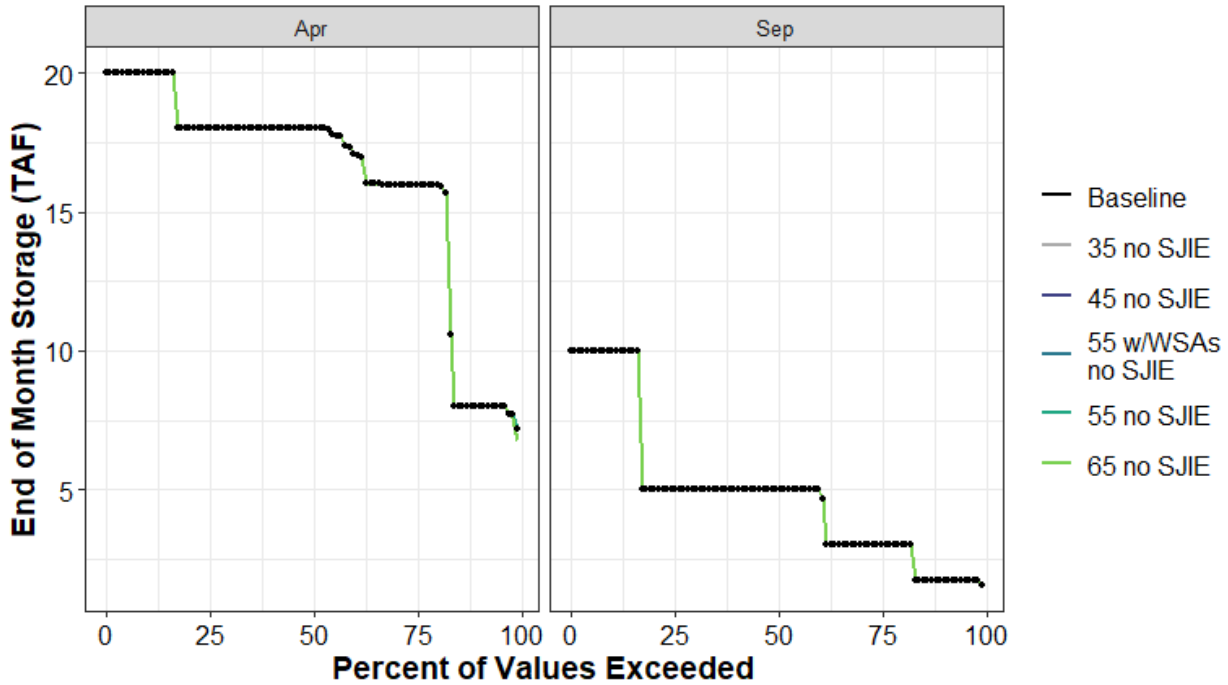

Figure H1a5-127. Mountain Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-257. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-258. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.35 New Bullards Bar Reservoir (Yuba River Watershed)

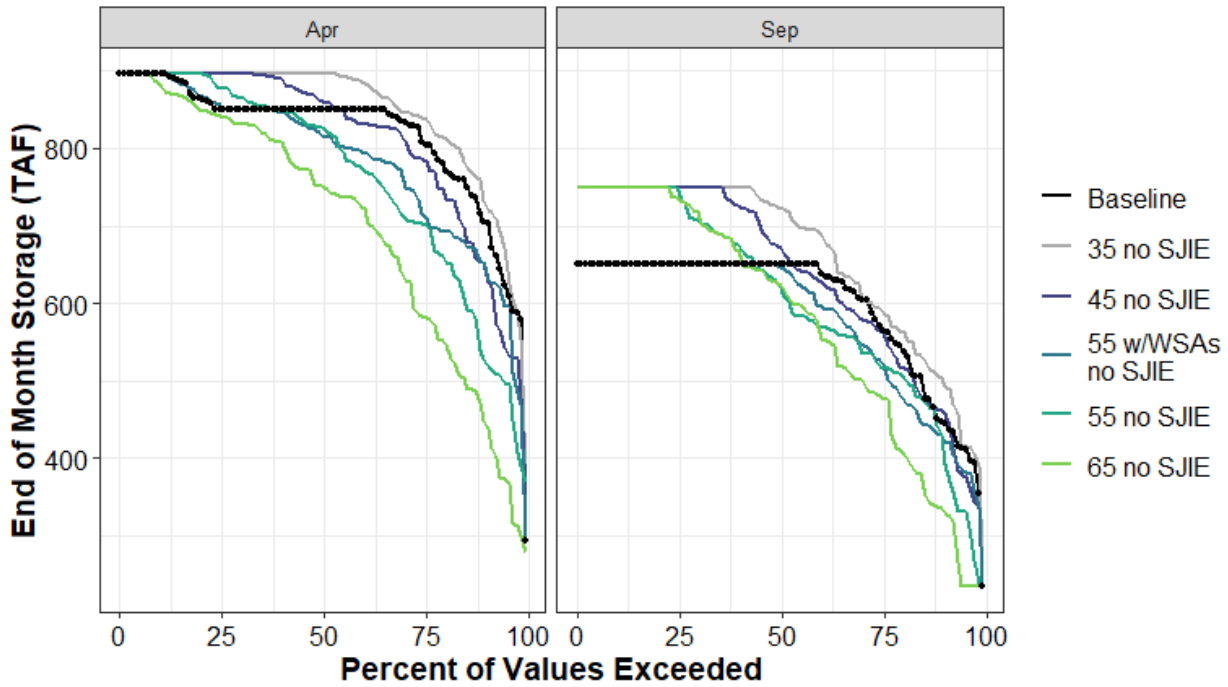

Figure H1a5-128. New Bullards Bar Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

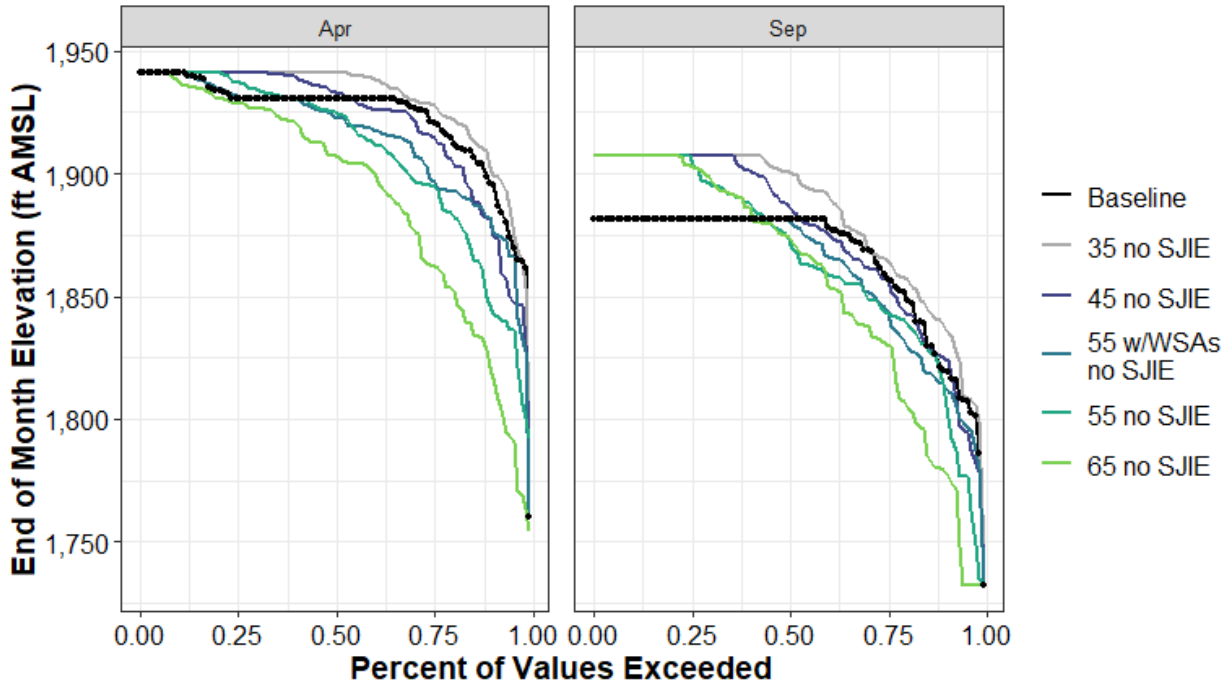

Figure H1a5-129. New Bullards Bar Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-259. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	234	21	5	0	2	0
10%	446	55	15	-17	-23	-111
25%	567	23	-4	-44	-50	-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 H1a5-260. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,732	10	2	0	1	0
10%	1,820	18	5	-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 H1a5-261. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	30	-5	-34	-52	-113

Table H1a5-262. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.36 New Hogan Reservoir (Calaveras River Watershed)

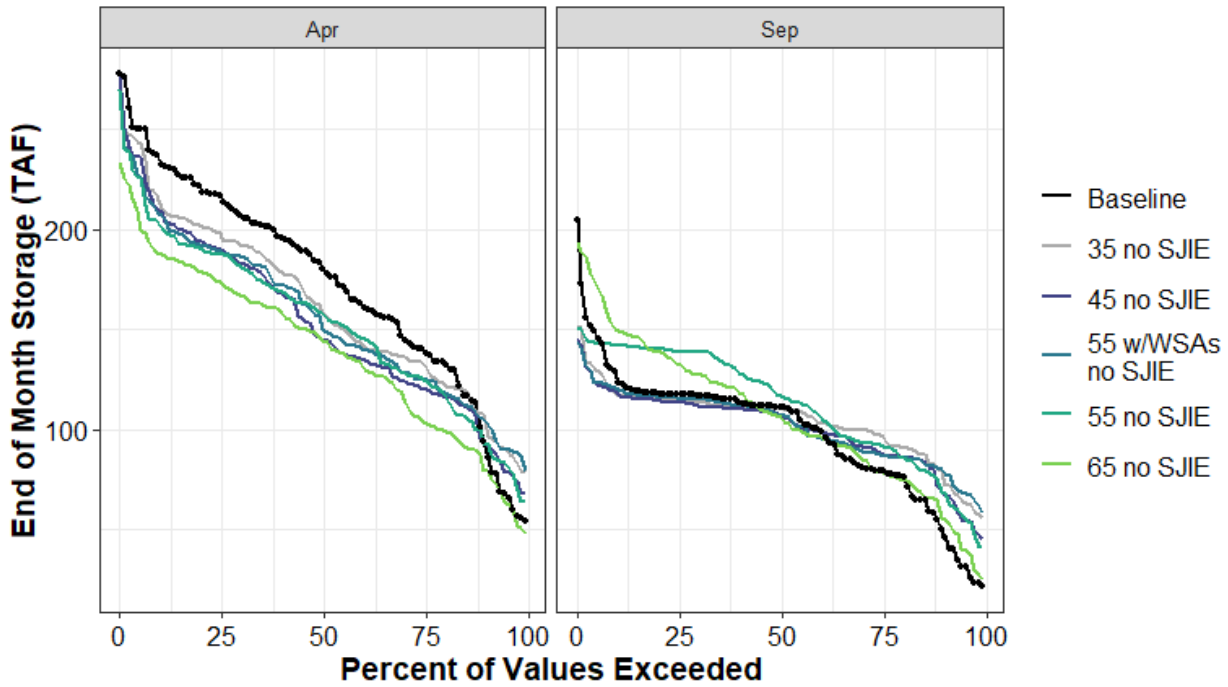

Figure H1a5-130. New Hogan Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

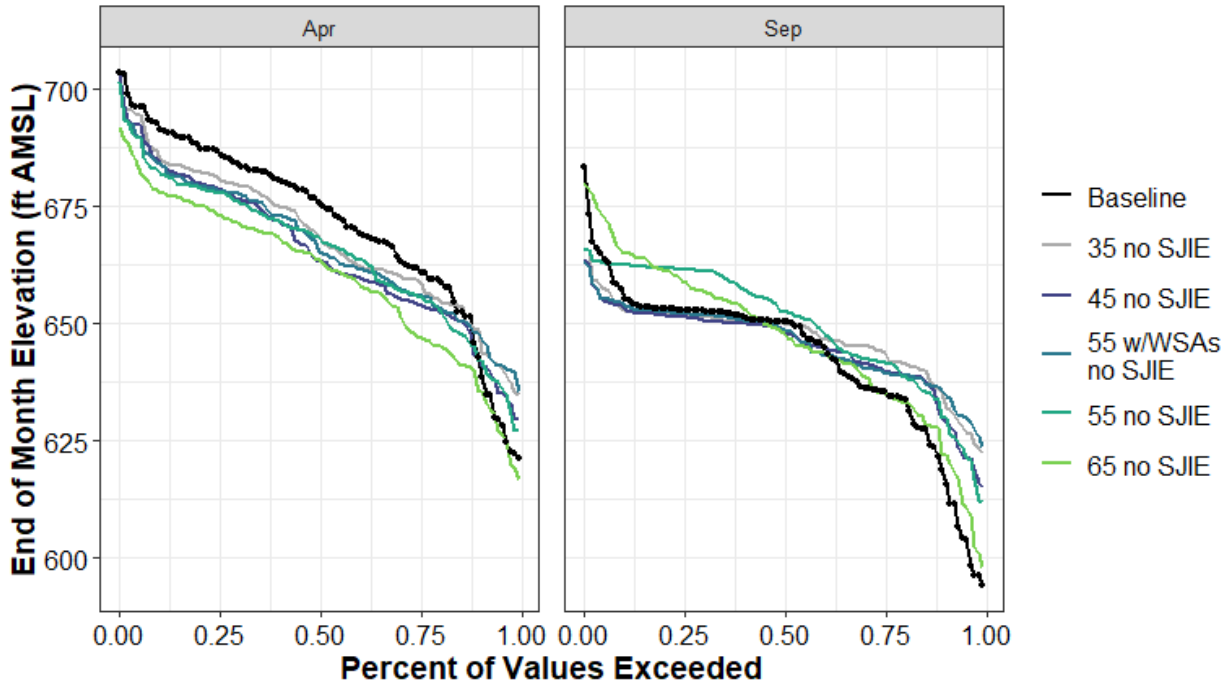

Figure H1a5-131. New Hogan Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-263. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-264. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-265. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-266. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	621	14	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

H1a5.5.37 Oroville Reservoir (Feather River Watershed)

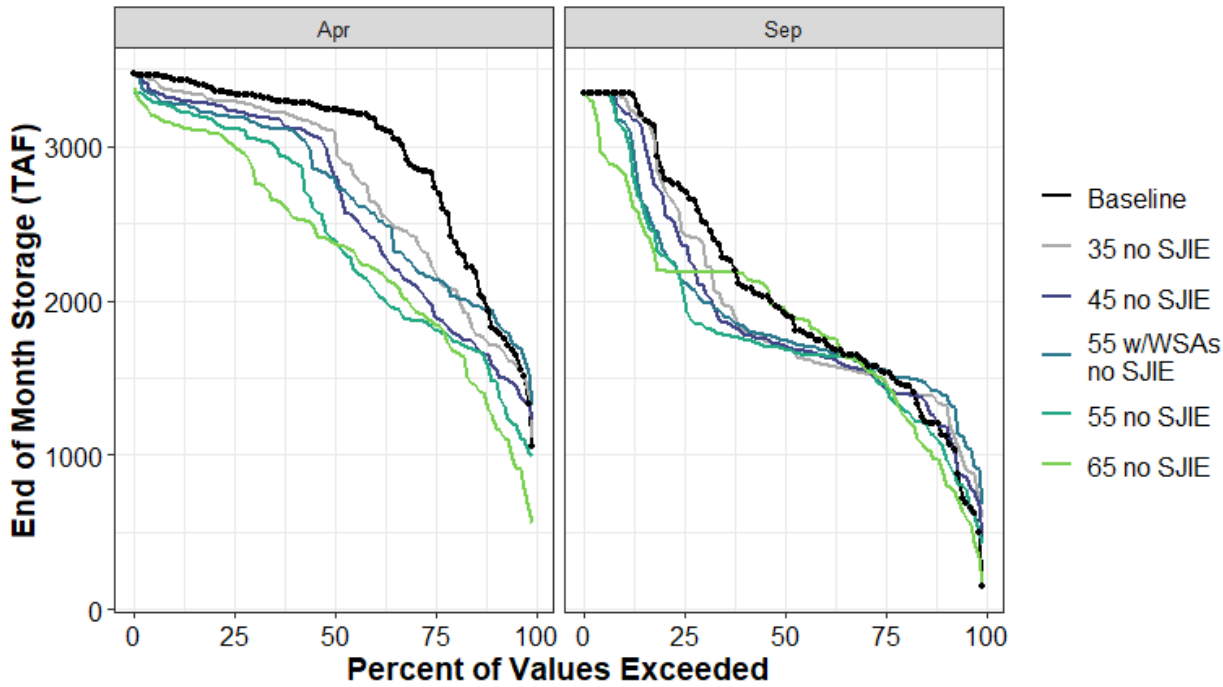

Figure H1a5-132. Oroville Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

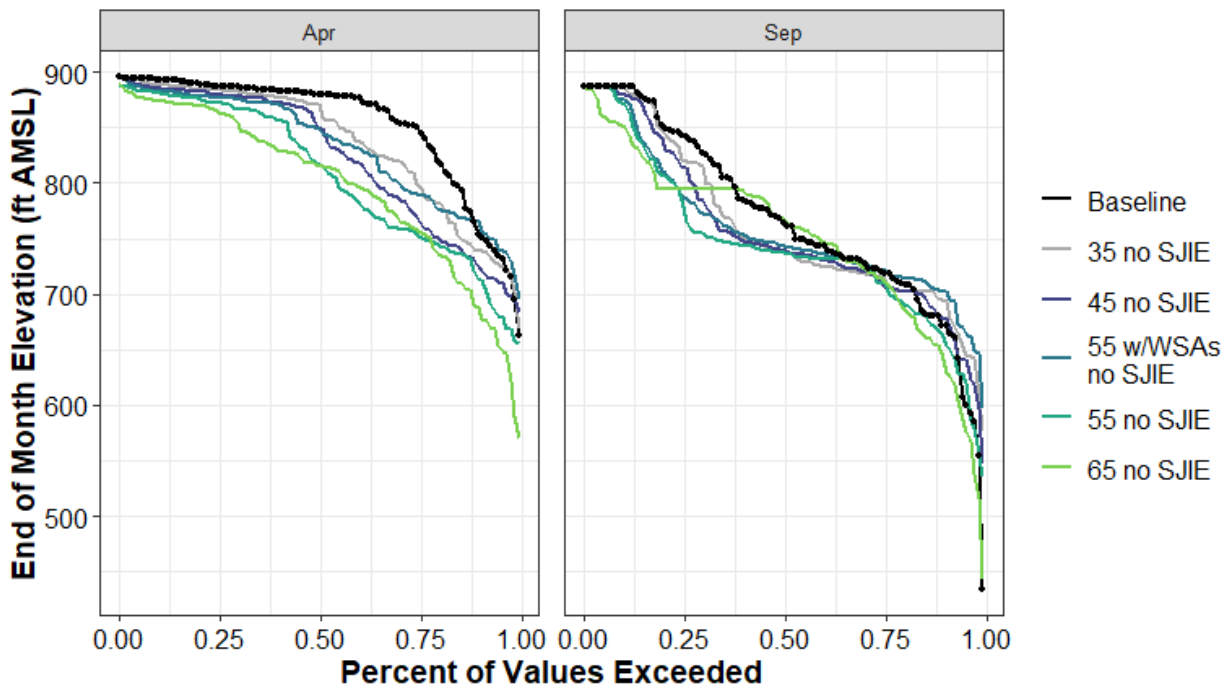

Figure H1a5-133. Oroville Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-267. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	146	446	319	526	273	18
10%	1,129	200	54	264	-81	-242
25%	1,539	-45	-98	16	-80	-54
50%	1,919	-208	-213	-177	-227	39
75%	2,713	-277	-358	-589	-696	-525
90%	3,350	-36	-123	-192	-245	-524
100%	3,351	0	0	0	0	0
Mean	2,057	-81	-134	-125	-243	-197

Table H1a5-268. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	434	143	113	163	102	10
10%	672	23	6	31	-9	-29
25%	720	-5	-11	2	-9	-6
50%	764	-24	-25	-21	-26	4
75%	843	-22	-29	-55	-68	-48
90%	888	-2	-8	-13	-17	-37
100%	888	0	0	0	0	0
Mean	768	-6	-12	-9	-24	-18

Table H1a5-269. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,056	48	171	268	-64	-492
10%	1,827	-118	-247	96	-350	-584
25%	2,779	-574	-839	-635	-959	-920
50%	3,238	-134	-435	-436	-844	-864
75%	3,343	-54	-113	-152	-228	-343
90%	3,435	-73	-125	-157	-179	-295
100%	3,470	0	0	0	-116	-92
Mean	2,946	-211	-349	-278	-535	-635

Table H1a5-270. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	664	6	20	31	-7	-93
10%	753	-14	-29	11	-41	-68
25%	848	-51	-82	-58	-96	-91
50%	880	-9	-31	-31	-63	-65
75%	887	-4	-8	-10	-15	-23
90%	893	-5	-8	-10	-12	-20
100%	896	0	0	0	-8	-6
Mean	854	-18	-30	-21	-47	-56

H1a5.5.38 Pardee Reservoir (Mokelumne River Watershed)

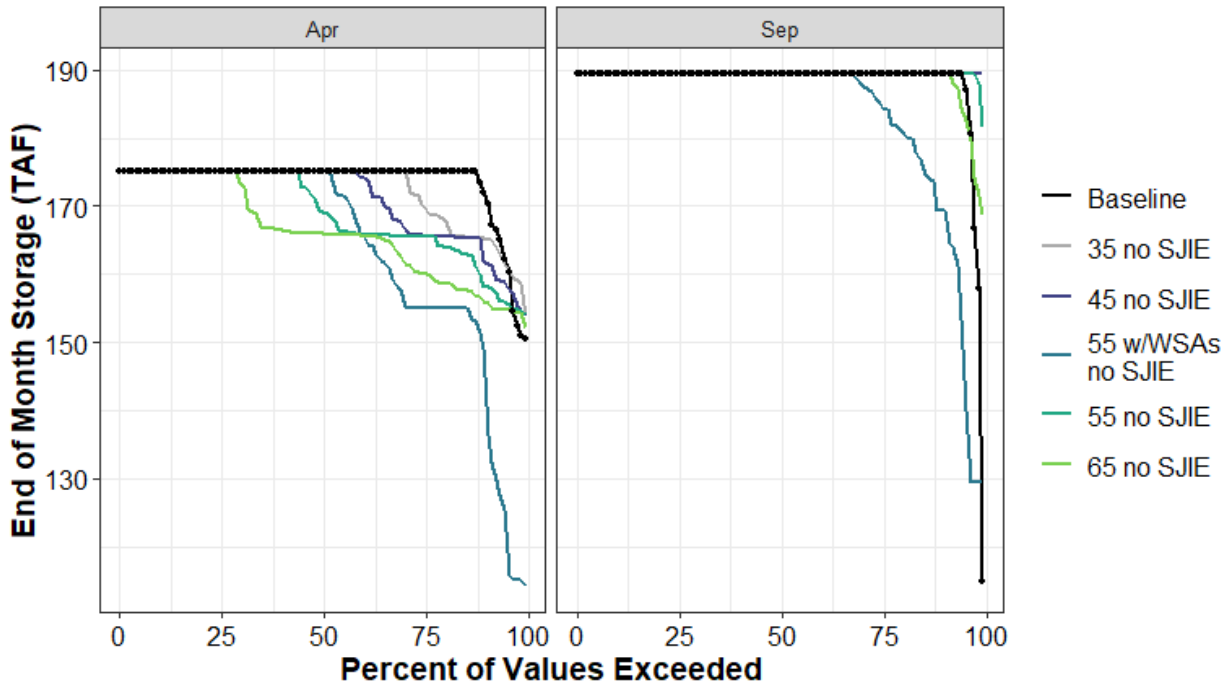

Figure H1a5-134. Pardee Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

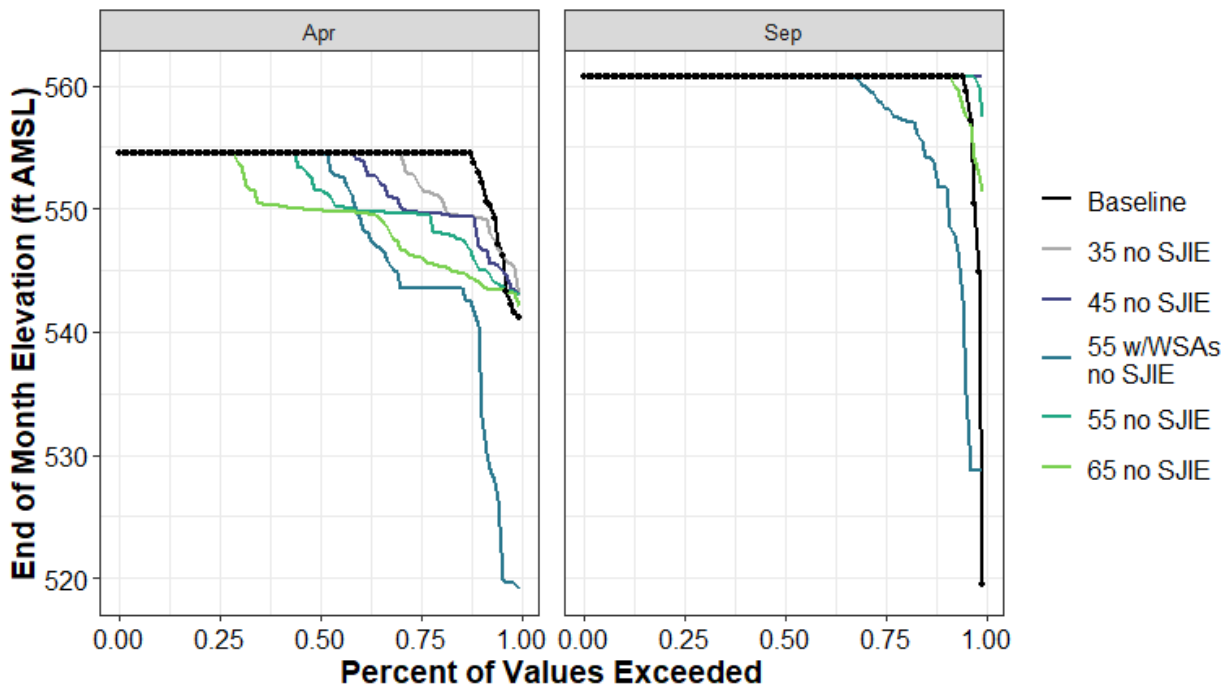

Figure H1a5-135. Pardee Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-271. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-272. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-273. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-274. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.39 Philbrook Round Valley (Feather River Watershed)

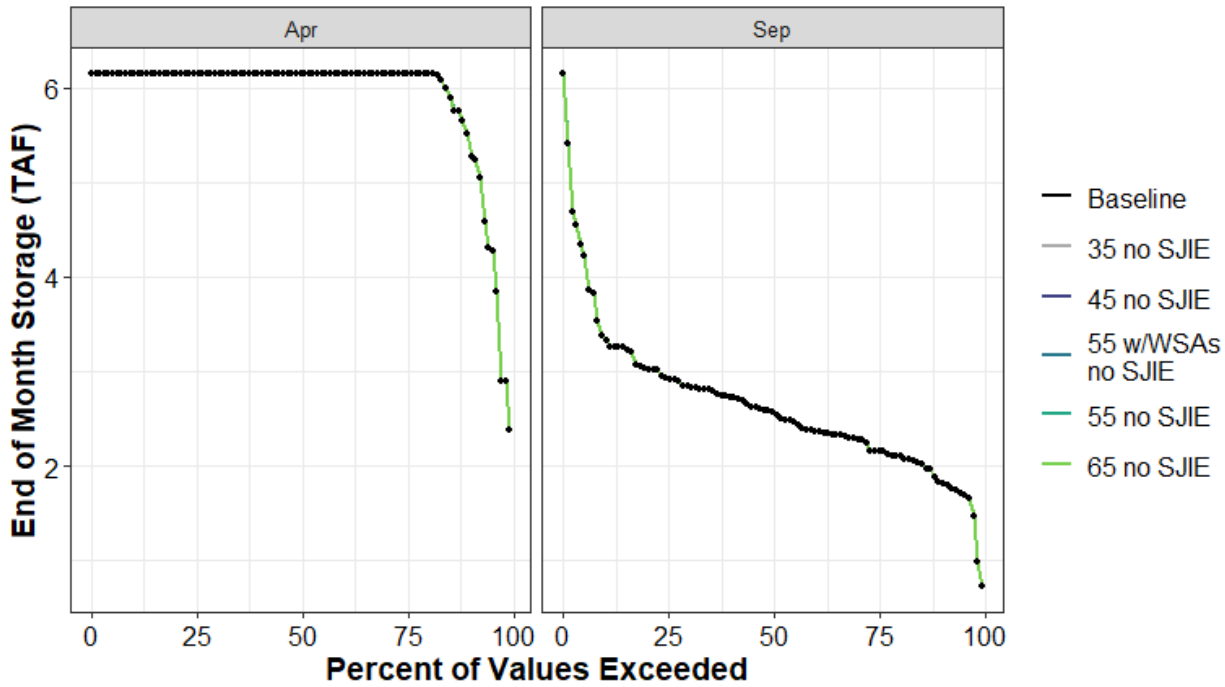

Figure H1a5-136. Philbrook Round Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-275. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Philbrook Round Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-276. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Philbrook Round Valley

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.40 Rollins Reservoir (Bear River Watershed)

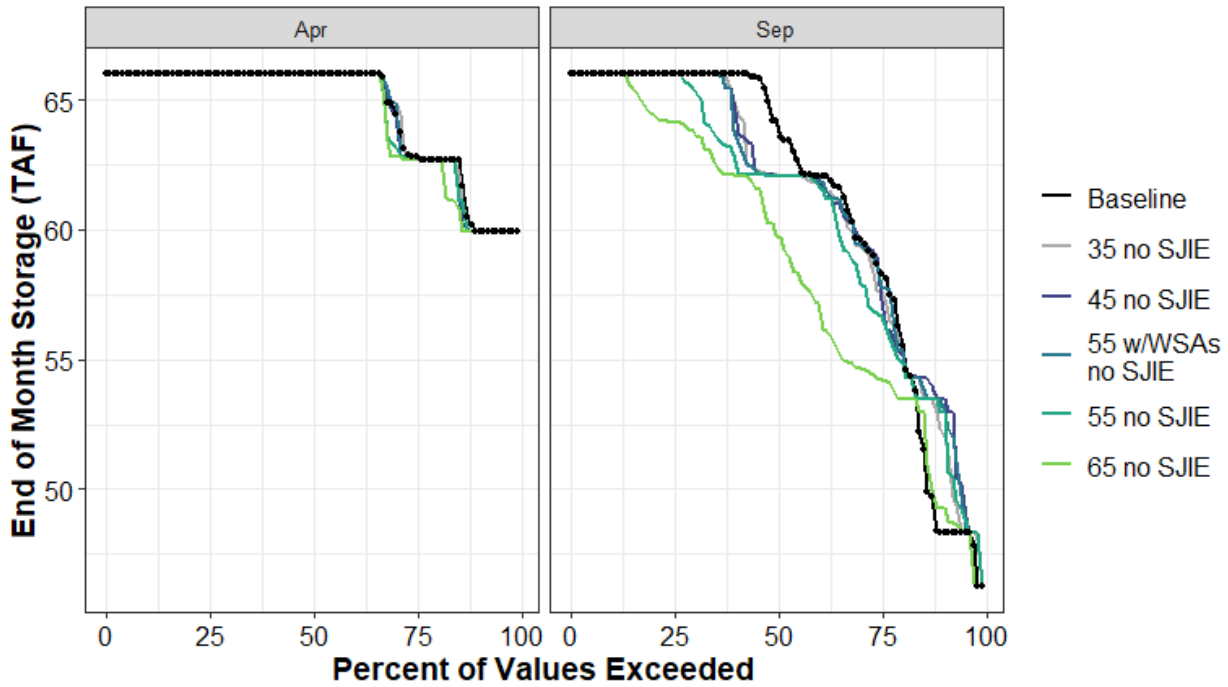

Figure H1a5-137. Rollins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

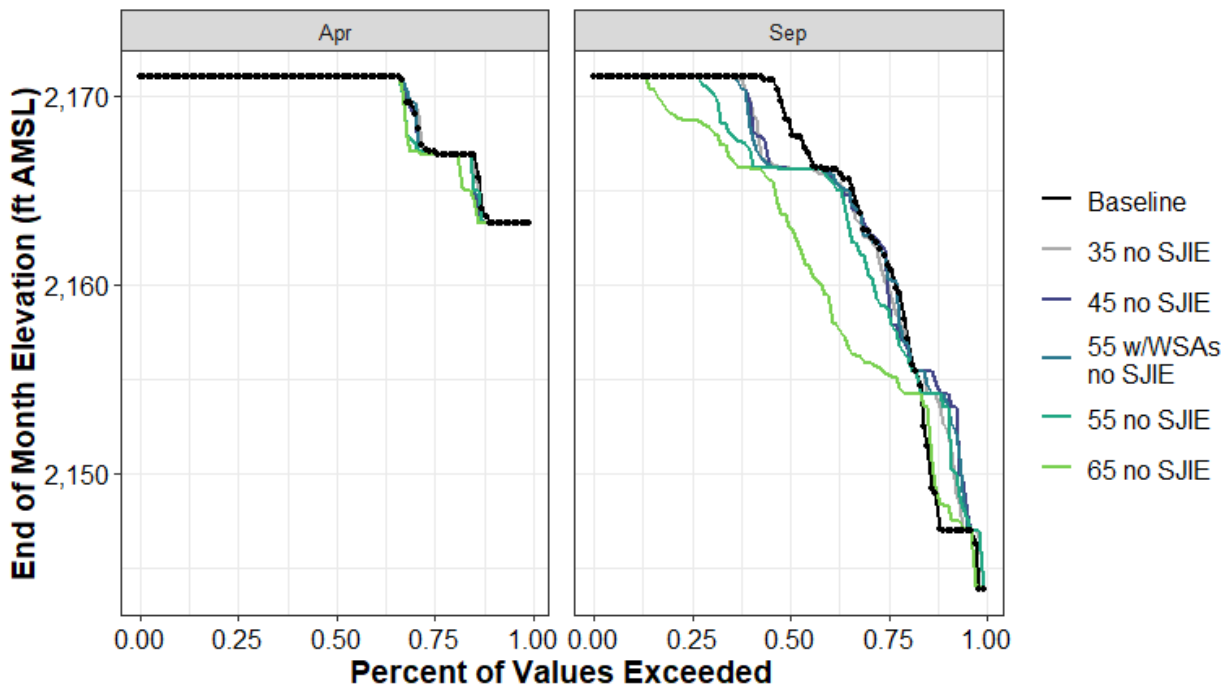

Figure H1a5-138. Rollins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-277. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-278. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-279. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-280. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.41 Salt Springs (Mokelumne River Watershed)

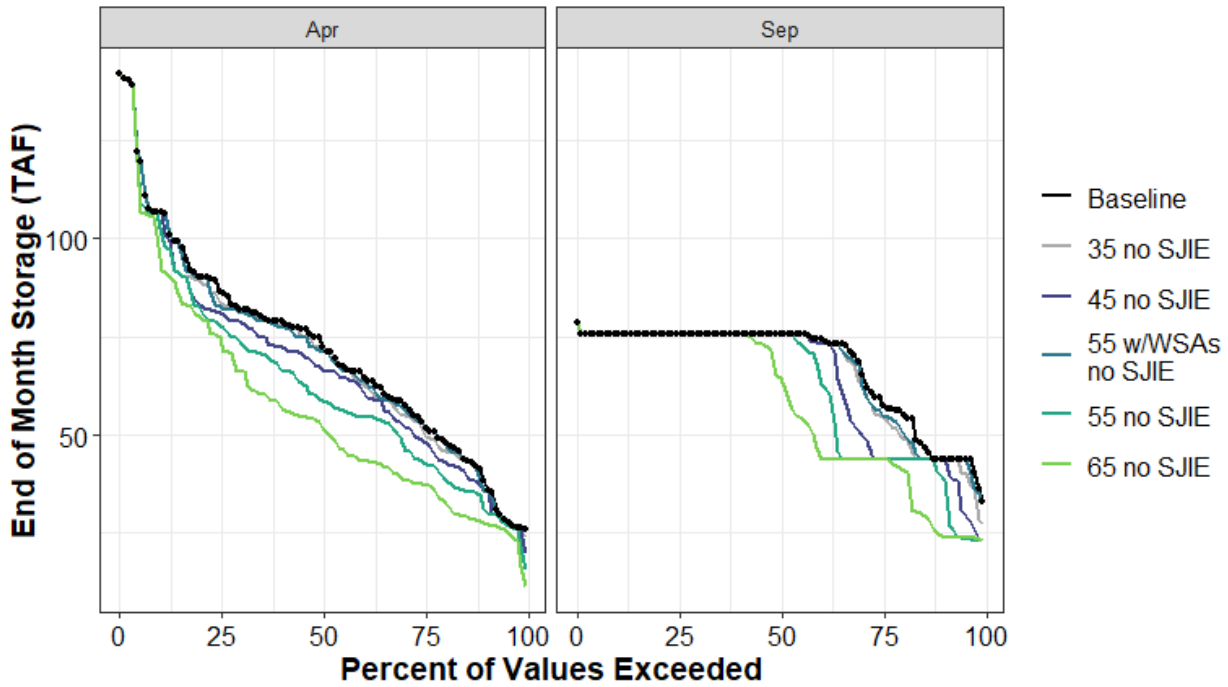

Figure H1a5-139. Salt Springs End of April and End of September Storage (TAF) Percent Exceedance Plot

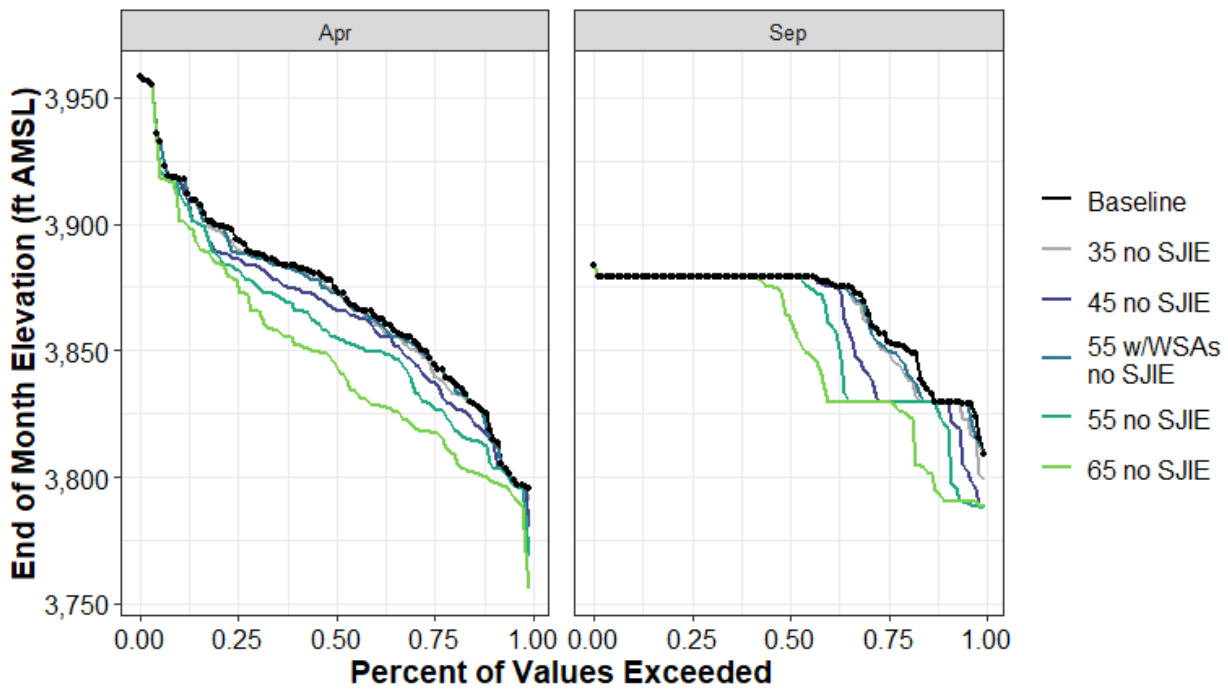

Figure H1a5-140. Salt Springs Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-281. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-282. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-283. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-284. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.42Scotts Flat Reservoir (Yuba RiverWatershed)

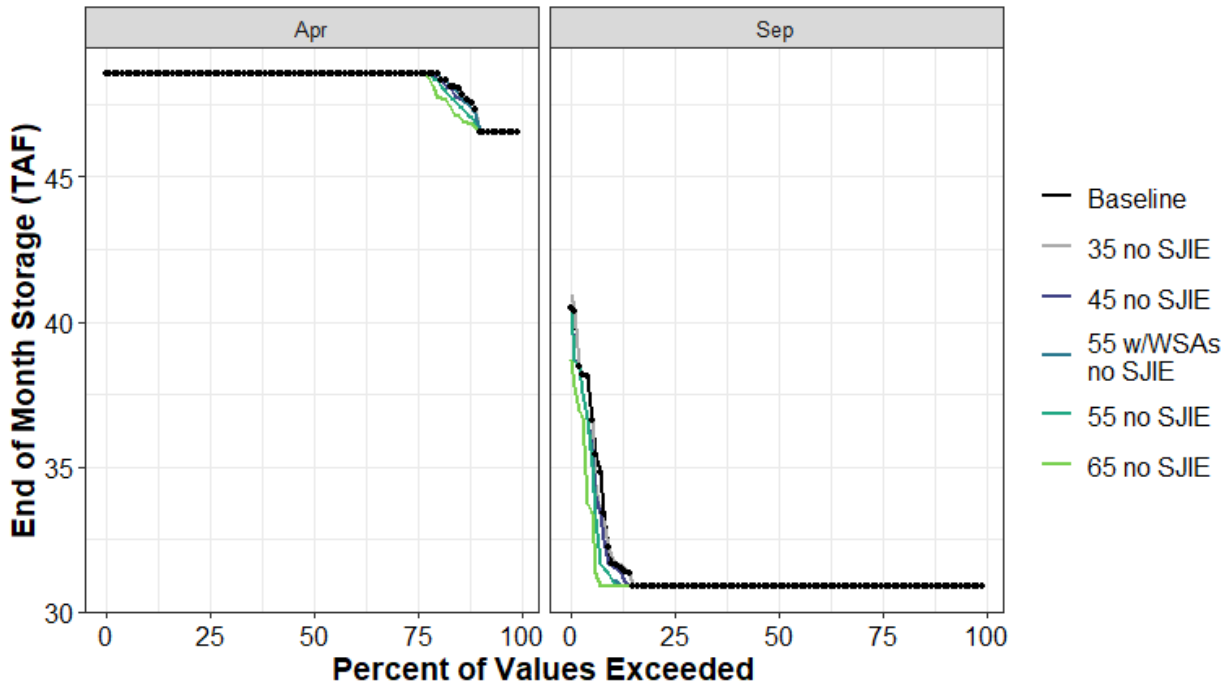

Figure H1a5-141. Scotts Flat Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

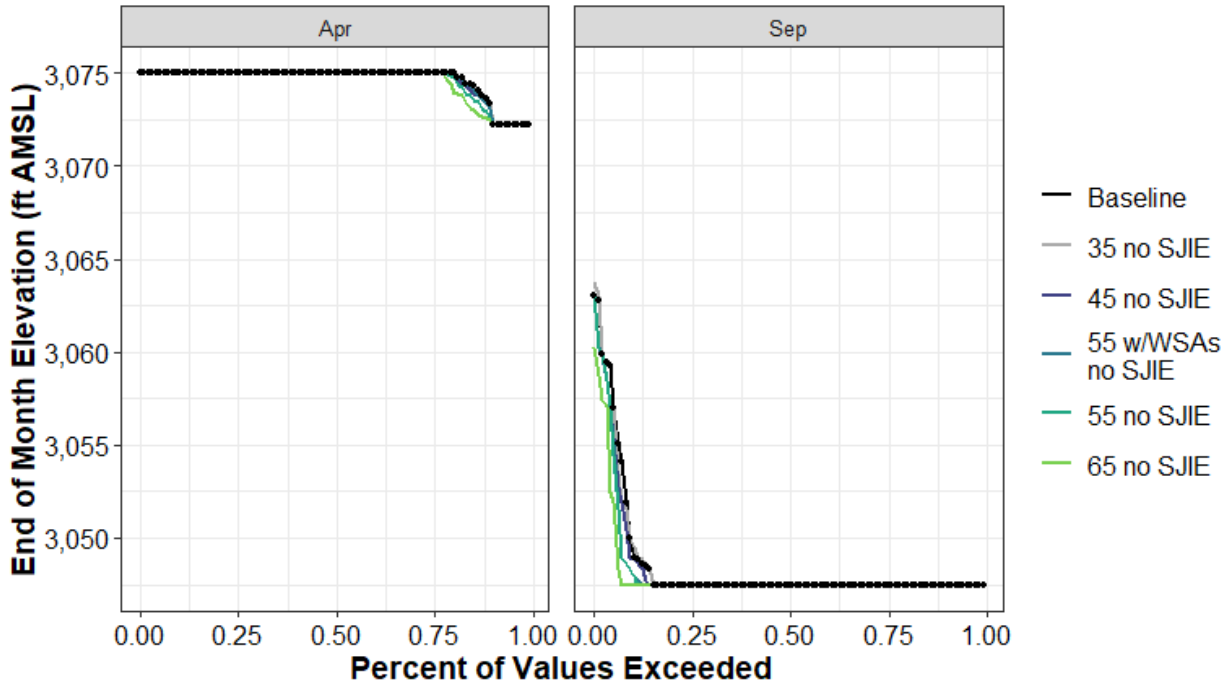

Figure H1a5-142. Scotts Flat Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-285. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-286. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	1	0	0	0	-3
Mean	3,048	0	0	0	0	-1

Table H1a5-287. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-288. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.43 Shasta Lake (Sacramento River Watershed)

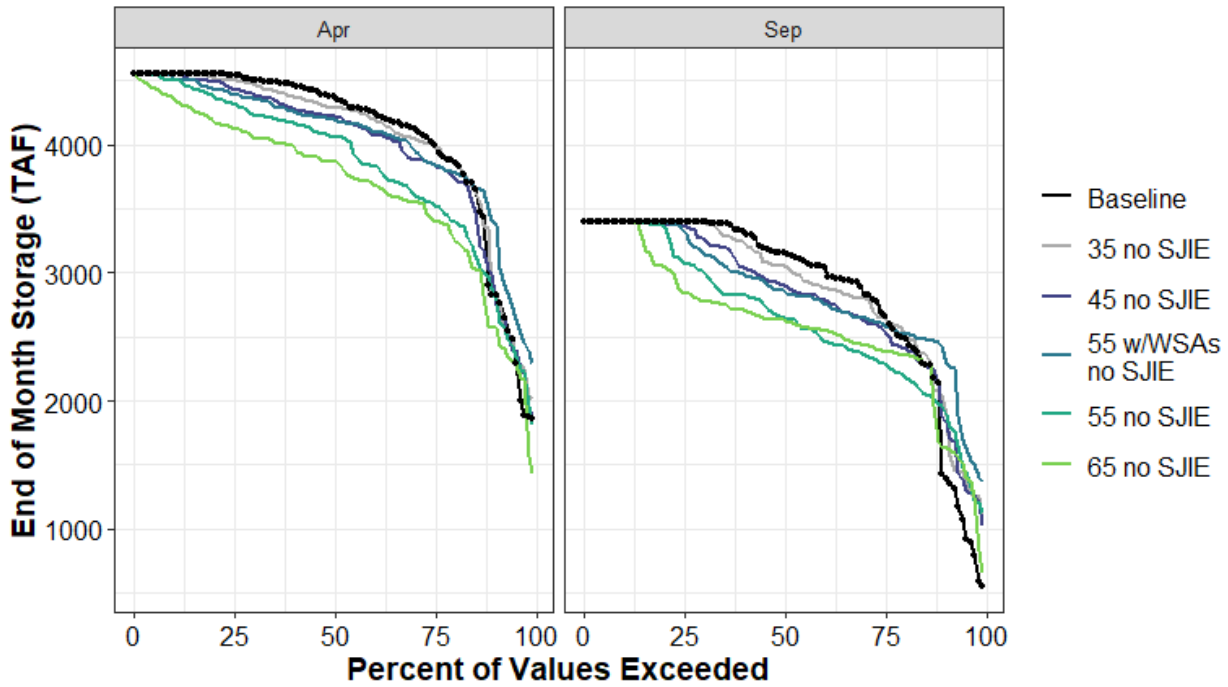

Figure H1a5-143. Shasta Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

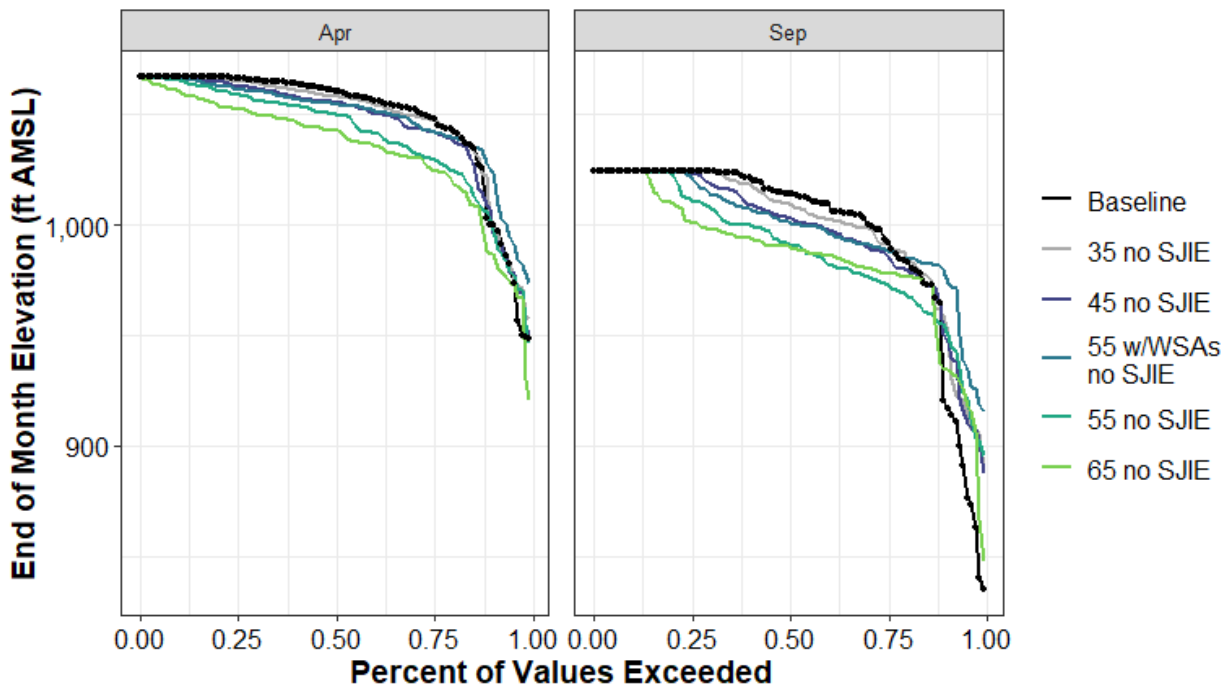

Figure H1a5-144. Shasta Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-289. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	550	500	471	820	571	108
10%	1,420	587	457	976	532	216
25%	2,679	-29	-121	-81	-390	-292
50%	3,158	-106	-261	-297	-507	-527
75%	3,400	-1	-33	-73	-317	-550
90%	3,400	0	0	0	0	-1
100%	3,400	0	0	0	0	0
Mean	2,871	6	-69	-27	-235	-282

Table H1a5-290. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	835	55	52	81	60	13
10%	920	38	30	59	35	15
25%	993	-1	-6	-4	-19	-15
50%	1,014	-5	-11	-13	-23	-24
75%	1,024	0	-1	-3	-13	-24
90%	1,024	0	0	0	0	0
100%	1,024	0	0	0	0	0
Mean	997	2	-1	2	-9	-12

Table H1a5-291. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,862	147	16	434	-51	-426
10%	2,827	5	119	582	31	-258
25%	4,015	-15	-167	-161	-480	-597
50%	4,372	-82	-151	-172	-310	-505
75%	4,543	-44	-108	-149	-223	-410
90%	4,552	0	0	-38	-48	-191
100%	4,552	0	0	0	0	0
Mean	4,084	-19	-96	-43	-253	-410

Table H1a5-292. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	949	9	1	25	-3	-28
10%	1,000	0	5	25	1	-13
25%	1,048	-1	-6	-6	-18	-23
50%	1,061	-3	-5	-6	-11	-18
75%	1,067	-1	-4	-5	-8	-14
90%	1,067	0	0	-1	-2	-7
100%	1,067	0	0	0	0	0
Mean	1,049	0	-3	-1	-9	-15

H1a5.5.44Silver Lake (American River Watershed)

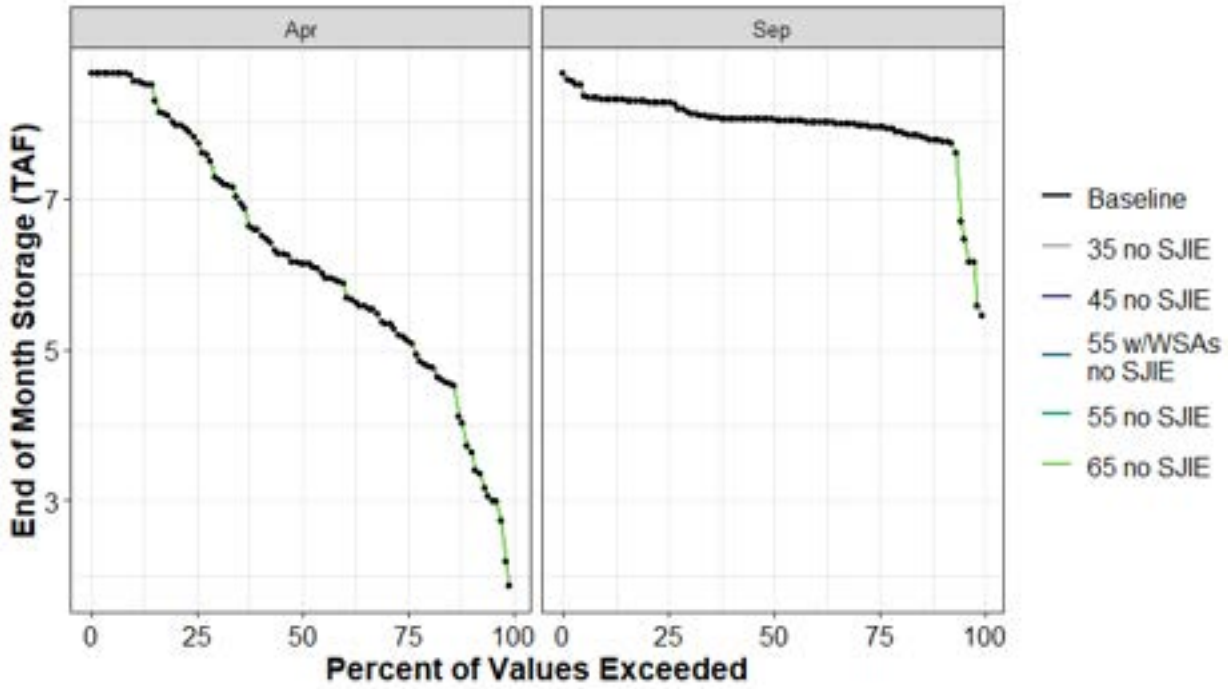

Figure H1a5-145. Silver Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

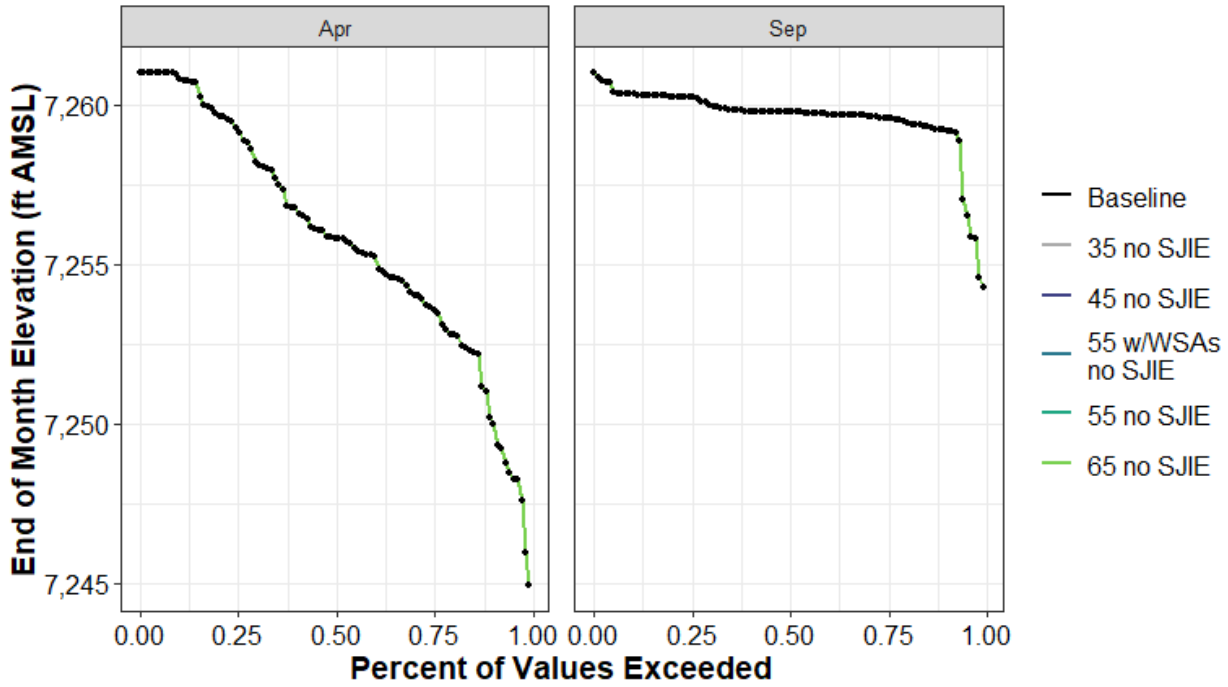

Figure H1a5-146. Silver Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-293. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-294. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-295. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-296. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.45 Sly Creek Reservoir (Feather River Watershed)

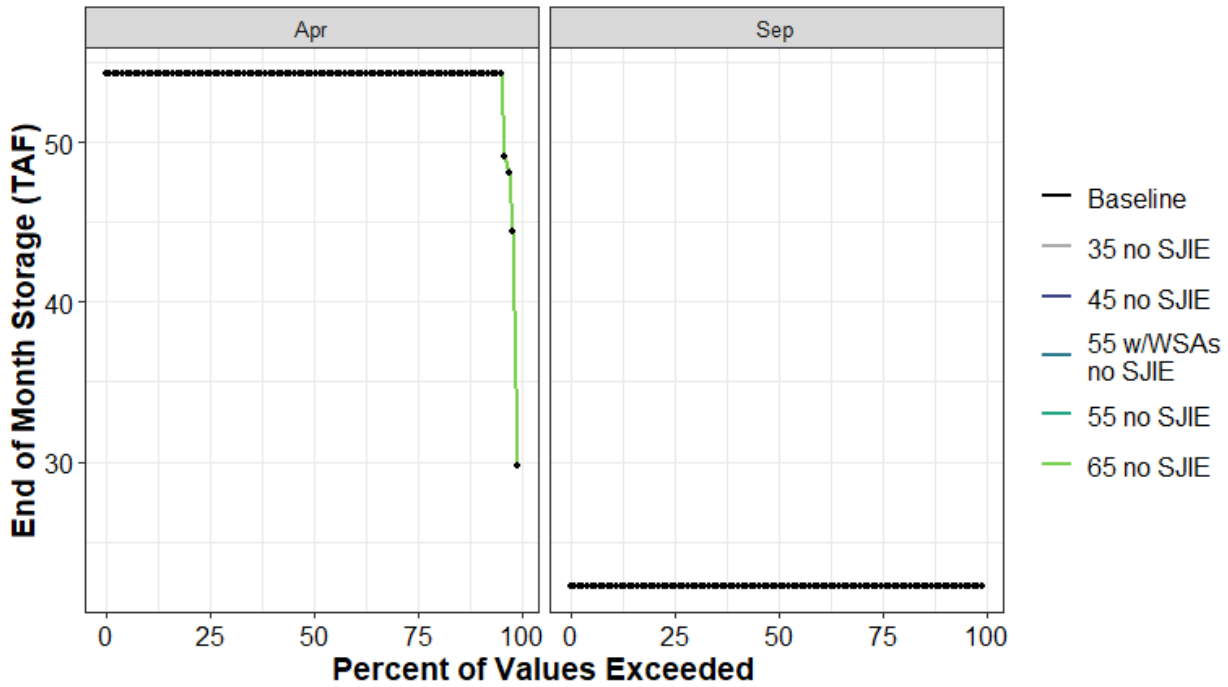

Figure H1a5-147. Sly Creek Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

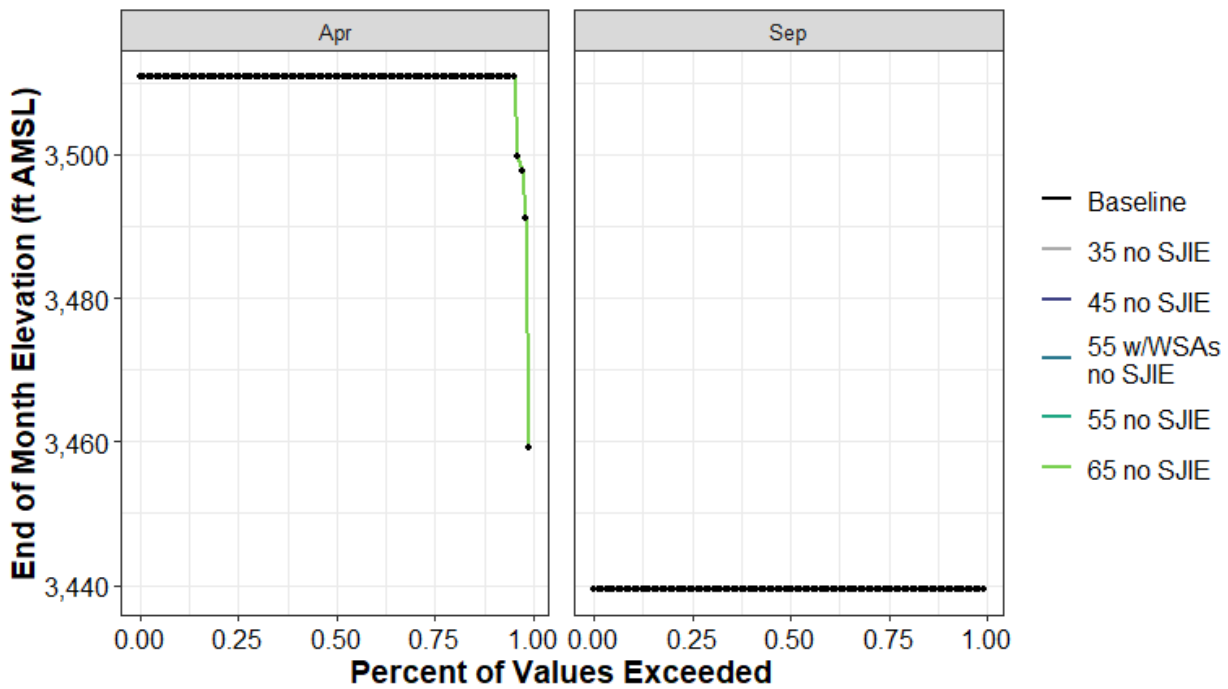

Figure H1a5-148. Sly Creek Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-297. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-298. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-299. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-300. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.46Stony Gorge Reservoir (Stony Creek Watershed)

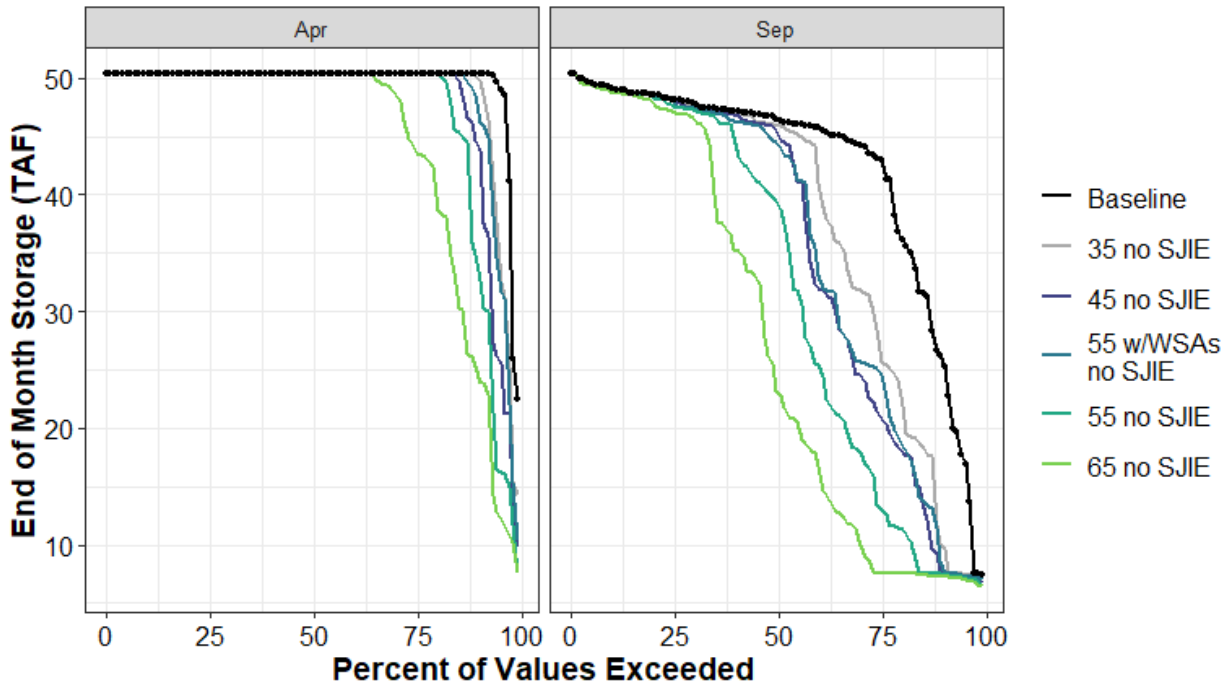

Figure H1a5-149. Stony Gorge Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

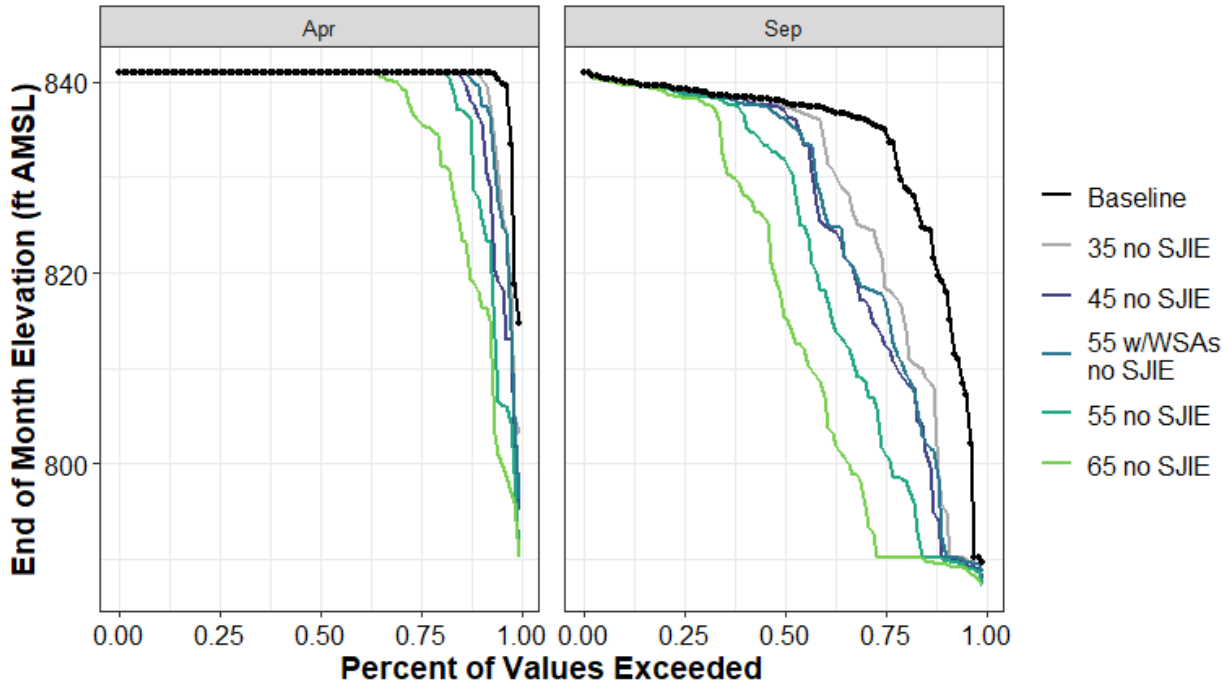

Figure H1a5-150. Stony Gorge Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-301. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-302. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-303. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-304. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.47 Stumpy Meadows (American River Watershed)

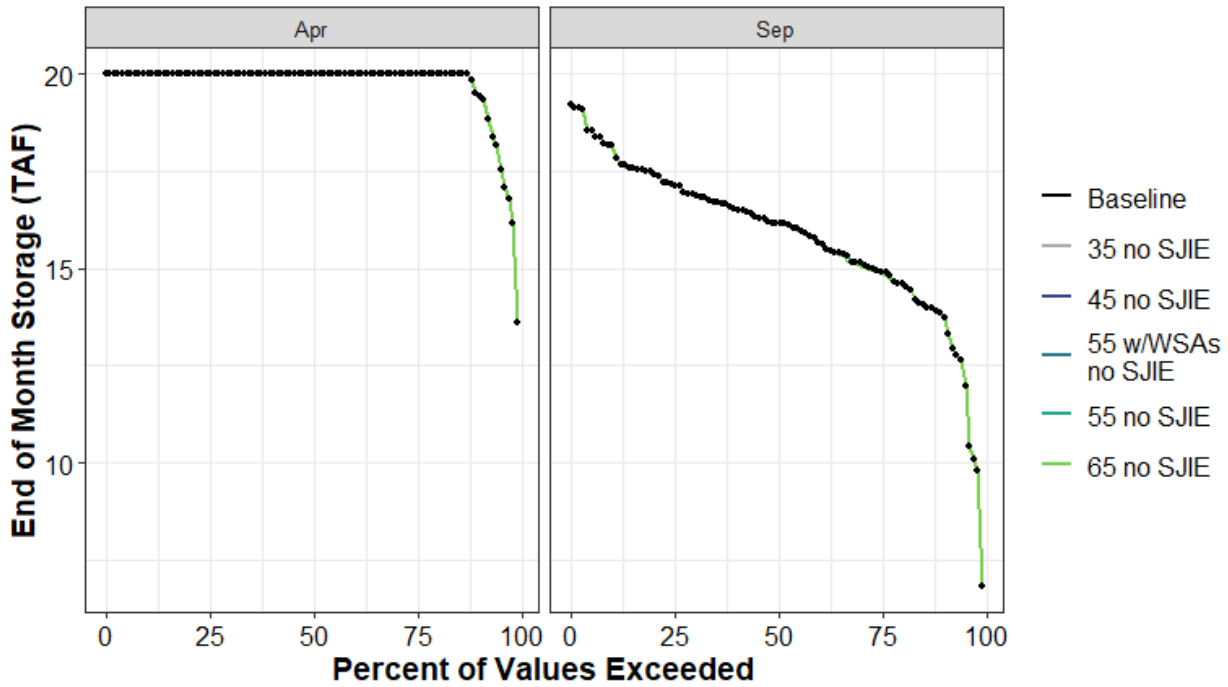

Figure H1a5-151. Stumpy Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-305. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-306. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.48SWP San Luis Reservoir (South of Delta Offstream)

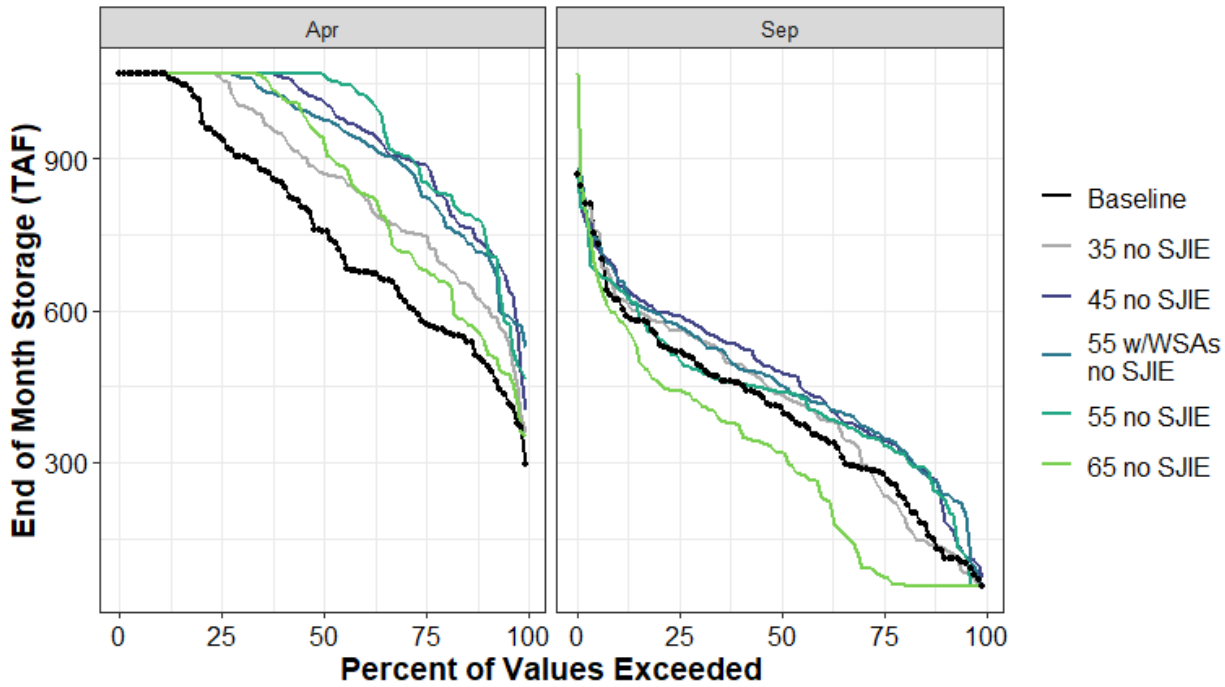

Figure H1a5-152. SWP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a5-307. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	55	1	18	0	0	0
10%	123	9	90	116	107	-67
25%	279	-36	66	75	61	-202
50%	410	24	68	41	29	-90
75%	518	43	71	52	-15	-78
90%	622	4	35	41	23	-35
100%	869	-1	-4	11	-6	198
Mean	397	18	63	59	30	-91

Table H1a5-308. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	297	60	104	232	168	54
10%	496	114	233	217	258	37
25%	575	174	313	250	280	106
50%	757	115	259	220	310	184
75%	940	117	127	127	127	127
90%	1,067	0	0	0	0	0
100%	1,067	0	0	0	0	0
Mean	763	96	183	165	195	98

H1a5.5.49Total San Luis Reservoir (South of Delta Offstream)

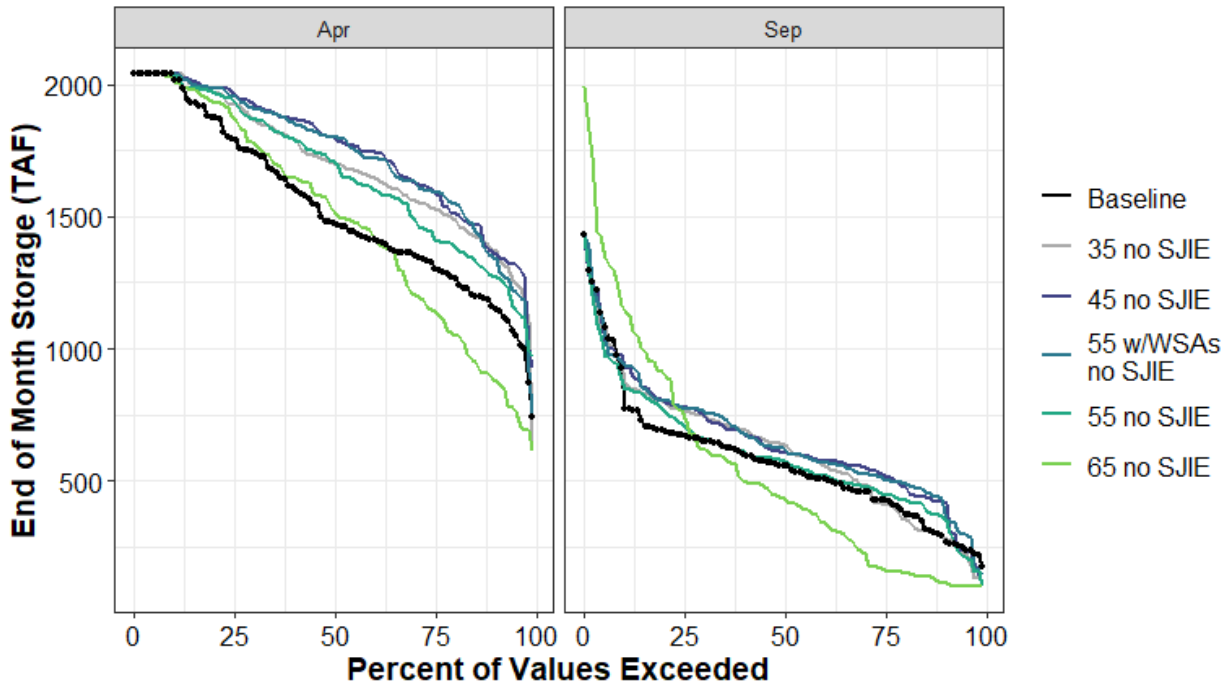

Figure H1a5-153. Total San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

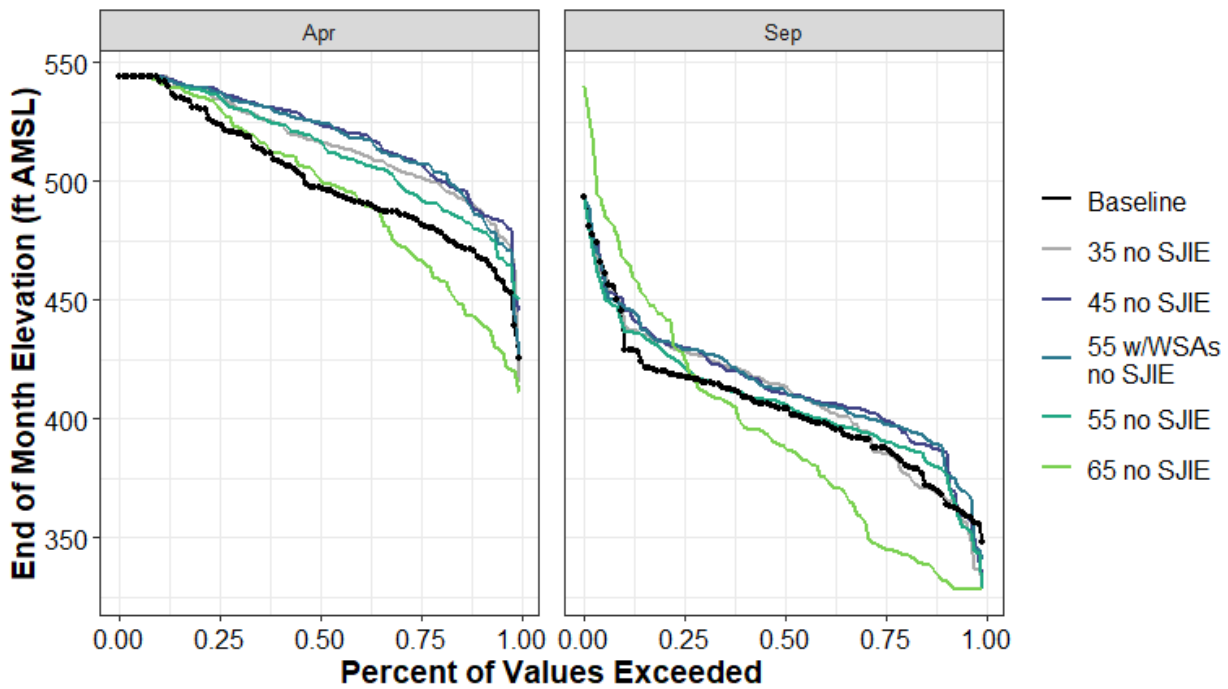

Figure H1a5-154. Total San Luis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-309. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	176	-57	-55	-31	-74	-76
10%	285	6	135	131	76	-169
25%	428	-15	93	80	21	-263
50%	557	80	50	66	20	-121
75%	671	92	108	104	35	73
90%	804	82	138	139	48	343
100%	1,430	-1	-4	0	-6	559
Mean	575	41	73	79	19	-37

Table H1a5-310. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	348	-15	-14	-7	-19	-20
10%	367	1	20	19	11	-34
25%	388	-2	12	10	3	-42
50%	404	10	6	8	2	-15
75%	418	10	12	12	4	8
90%	432	9	15	15	5	35
100%	493	0	0	0	-1	47
Mean	404	4	9	10	2	-10

Table H1a5-311. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	740	-93	185	14	230	-126
10%	1,156	218	212	193	120	-269
25%	1,313	215	284	281	117	-167
50%	1,477	223	321	322	230	42
75%	1,793	131	171	162	142	80
90%	2,022	17	17	17	8	-12
100%	2,039	0	0	0	0	0
Mean	1,536	161	212	198	129	-51

Table H1a5-312. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	426	-11	20	2	24	-14
10%	468	20	20	18	11	-27
25%	483	19	25	25	10	-16
50%	497	19	27	27	20	4
75%	524	11	14	13	12	7
90%	543	1	1	1	1	-1
100%	544	0	0	0	0	0
Mean	502	14	18	17	11	-5

H1a5.5.50Trinity Reservoir (Trinity River Watershed)

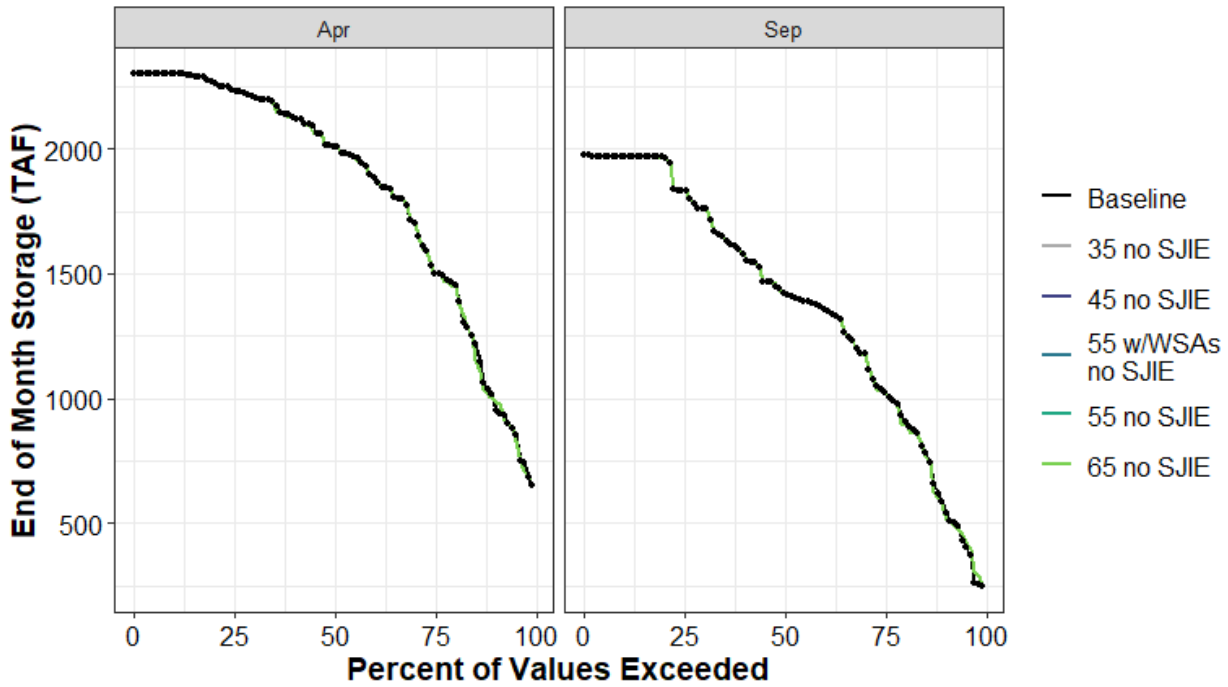

Figure H1a5-155. Trinity Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

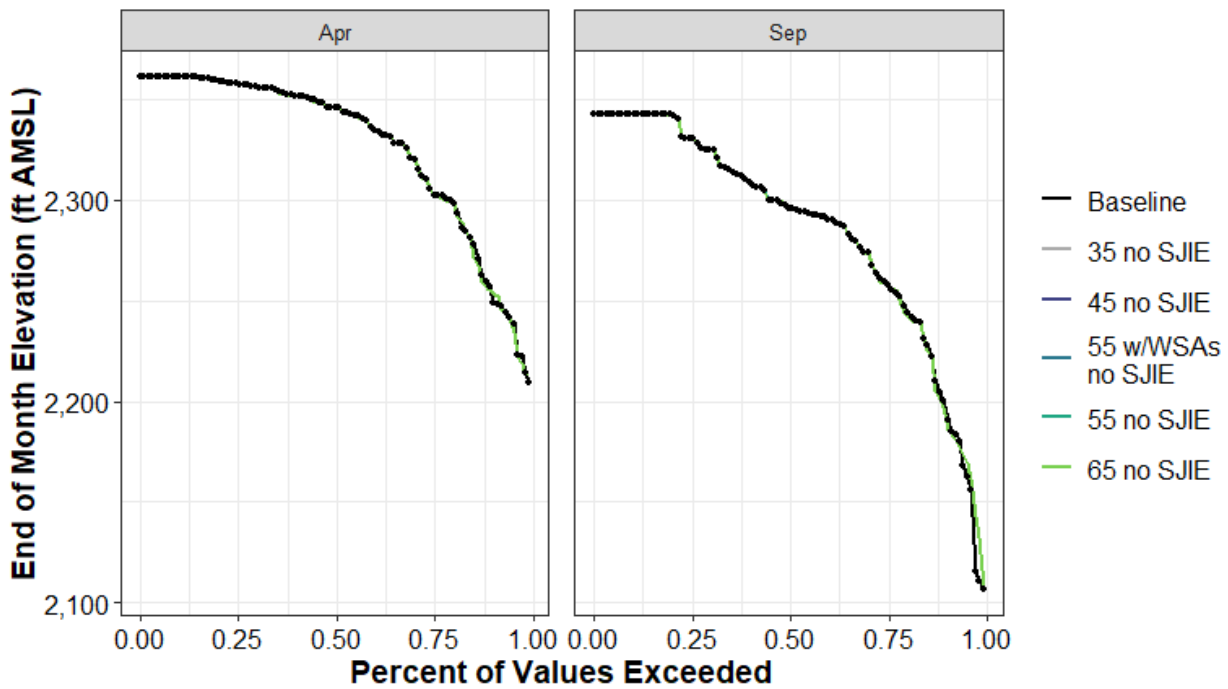

Figure H1a5-156. Trinity Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-313. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	2
Mean	1,379	-1	-1	-1	-1	-1

Table H1a5-314. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-315. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-316. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.51 Union Valley Reservoir (American River Watershed)

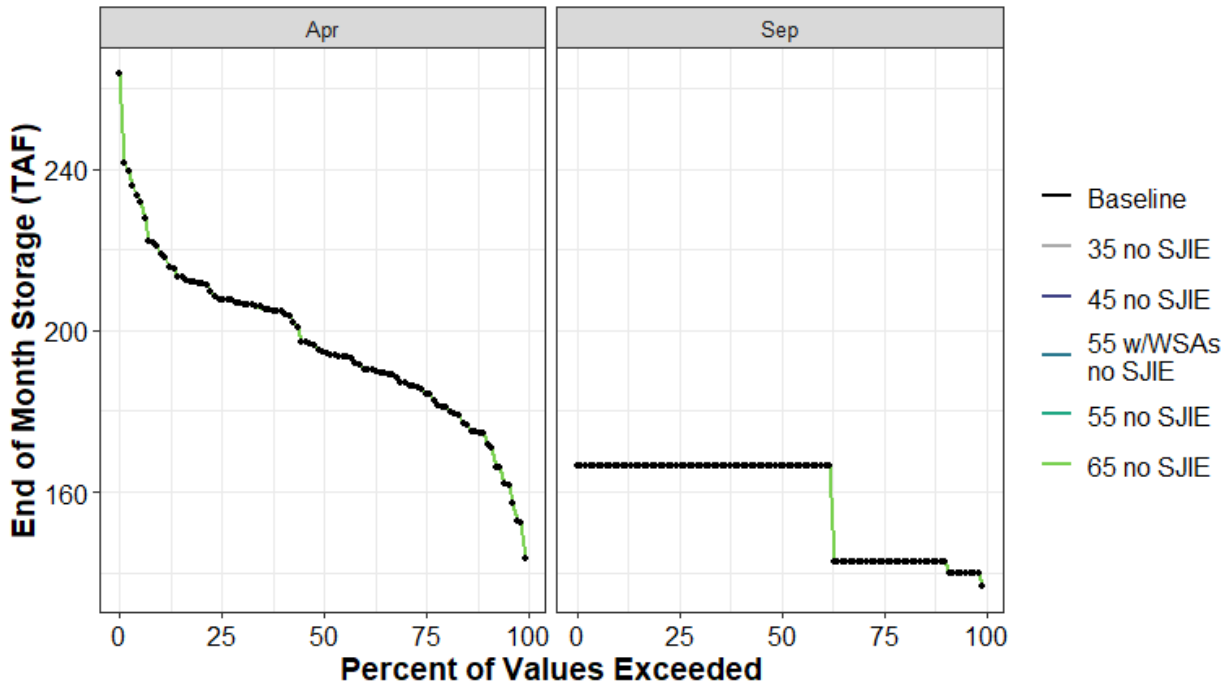

Figure H1a5-157. Union Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

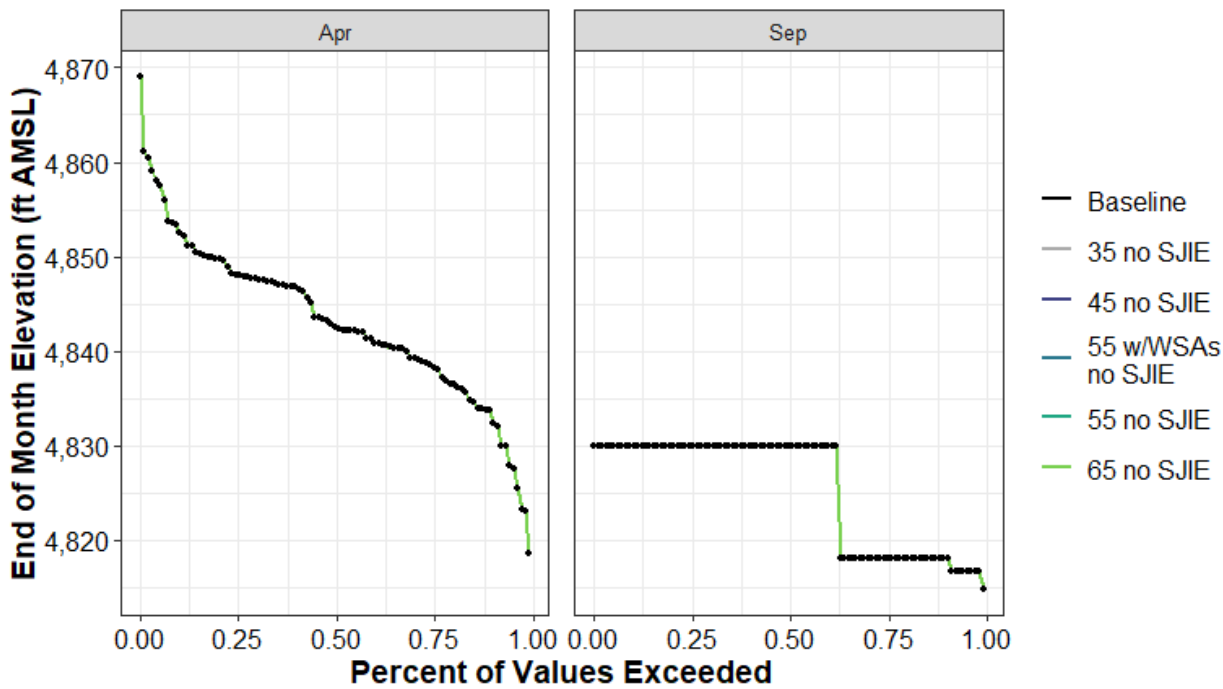

Figure H1a5-158. Union Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-317. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-318. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-319. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-320. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.5.52 Whiskeytown Reservoir (Clear Creek Watershed)

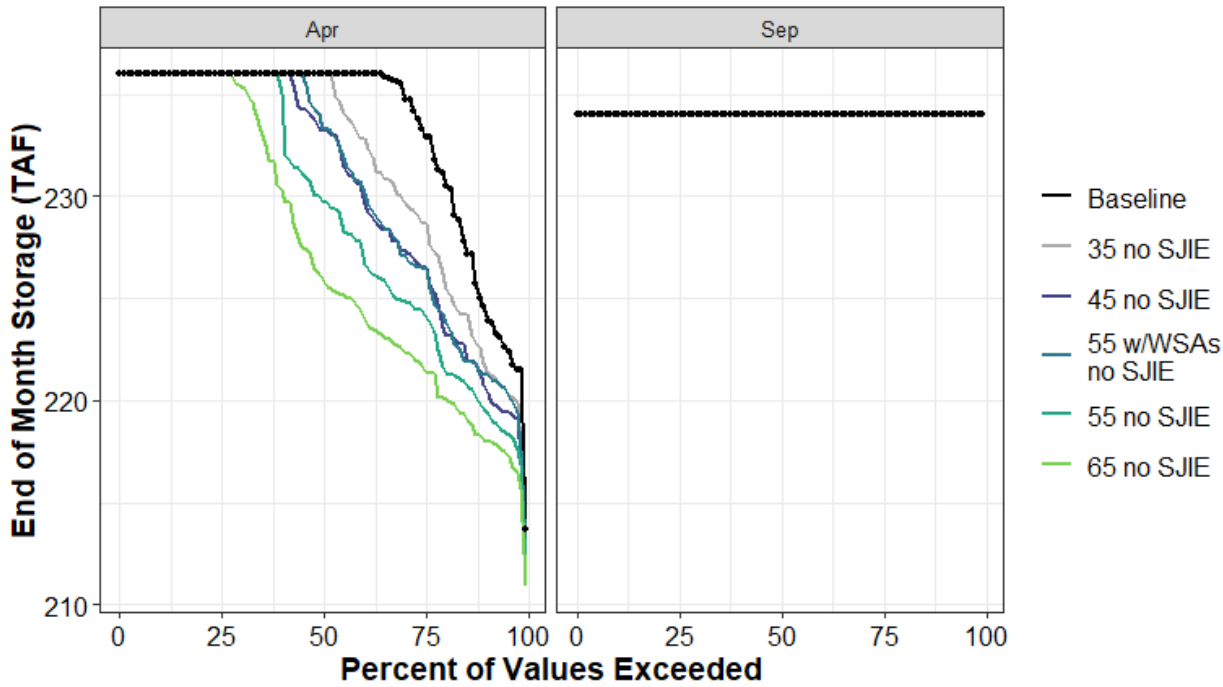

Figure H1a5-159. Whiskeytown Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

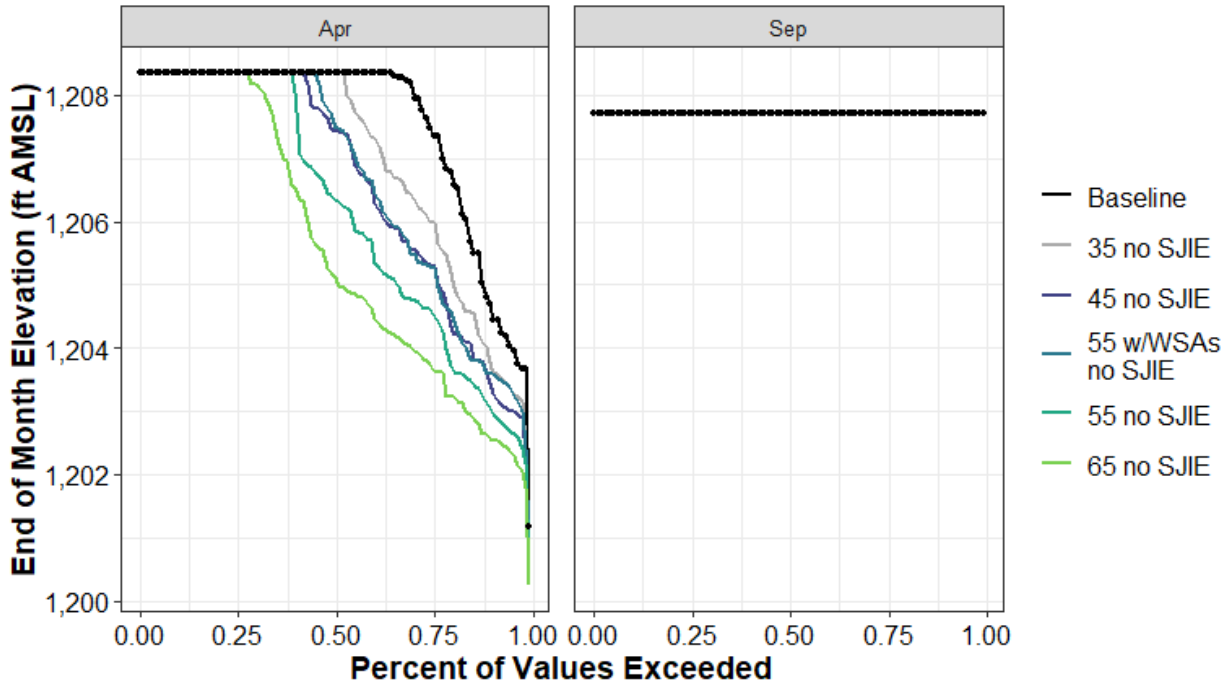

Figure H1a5-160. Whiskeytown Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a5-321. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-322. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-323. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-324. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6 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 H1a5-325 show constant supplies for all water years in all scenarios summarized, and are not presented further in this appendix.

Table H1a5-325. 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

H1a5.6.1 Water Budget Area 2 (Agricultural)

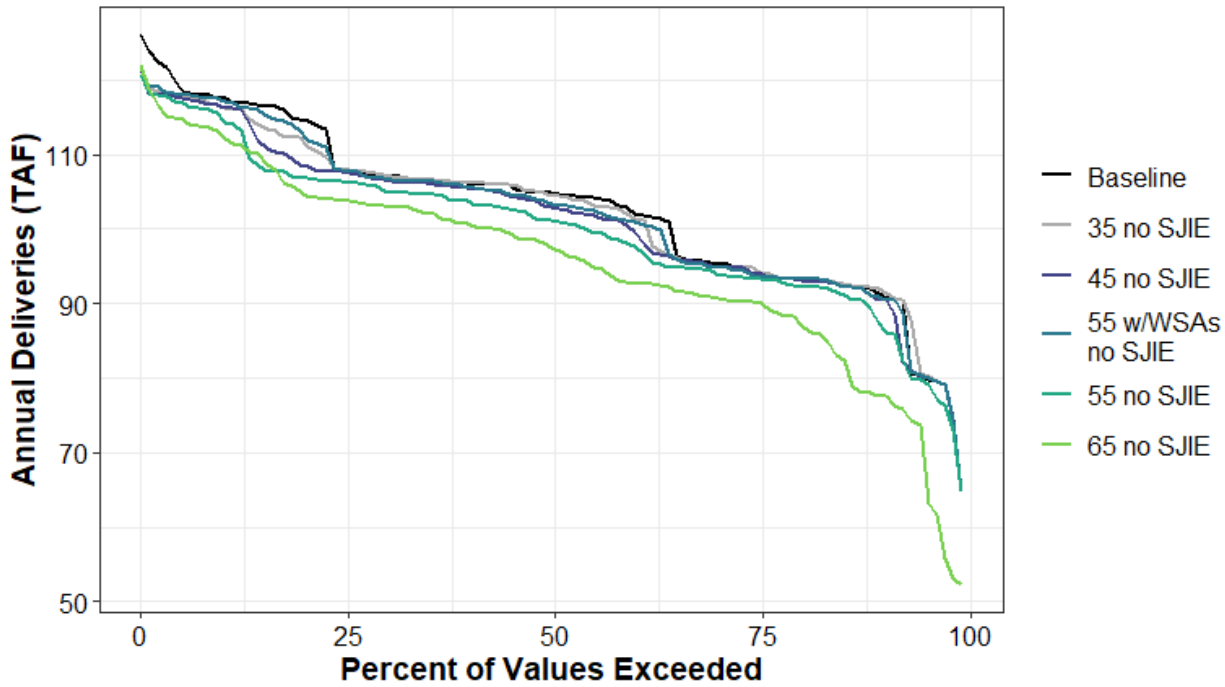

Figure H1a5-161. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-326. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	126	122	122	121	121	122
10%	118	116	116	117	114	112
20%	115	111	108	112	107	105
30%	107	107	107	107	105	103
40%	106	106	105	106	104	101
50%	105	104	103	103	101	97
60%	102	101	100	101	98	93
70%	95	95	95	95	94	91
80%	93	93	93	93	92	88
90%	91	92	91	91	87	78
100%	65	65	65	65	65	52
Mean	103	102	101	102	100	95

Table H1a5-327. Total Water Supplied to Water Budget Area 2 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	111	105	102	107	95	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

H1a5.6.2 Water Budget Area 2 (Urban)

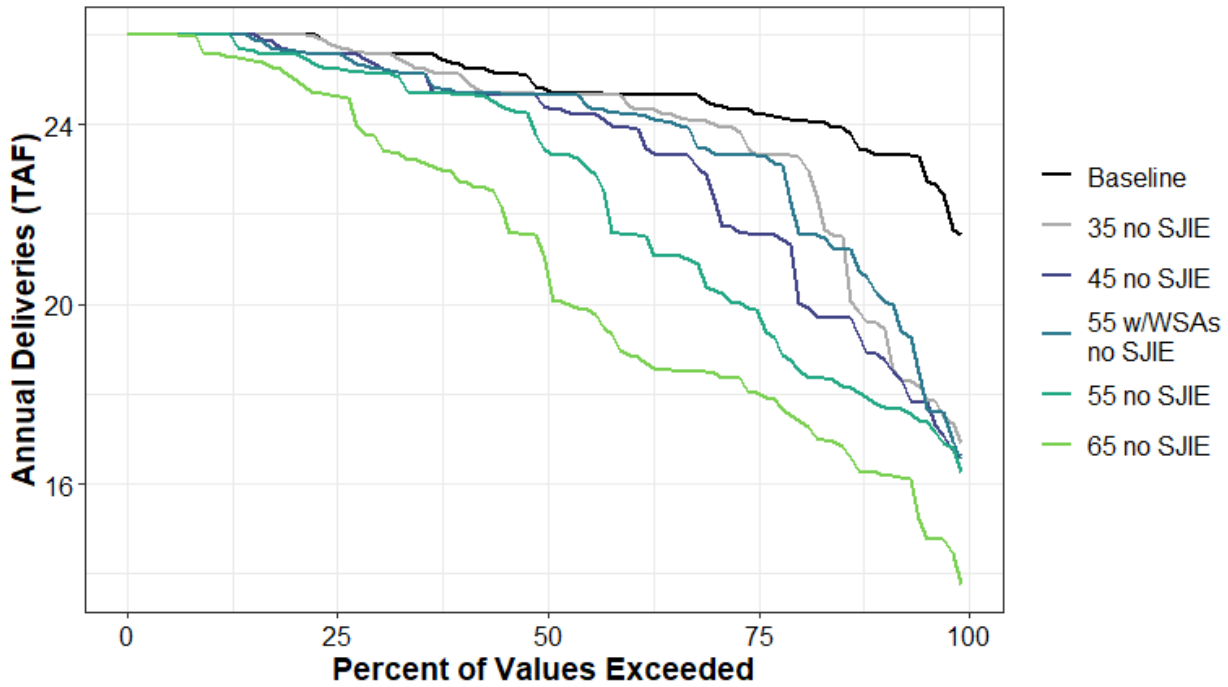

Figure H1a5-162. Total Water Supplied to Water Budget Area 2 (Urban) Annual Percent Exceedance Plot.

Table H1a5-328. Total Water Supplied to Water Budget Area 2 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	26	26	26	26	26	26
10%	26	26	26	26	26	25.6
20%	26	26	25.7	25.6	25.6	25
30%	25.5	25.5	25.3	25.2	25.1	23.6
40%	25.3	25.1	24.7	24.7	24.7	22.7
50%	24.8	24.7	24.4	24.7	23.5	21.1
60%	24.7	24.5	23.9	24.2	21.6	18.9
70%	24.5	24	22.6	23.4	20.4	18.5
80%	24.1	23.3	20.8	22	18.7	17.5
90%	23.3	19.6	18.9	20.2	17.8	16.2
100%	21.6	16.9	16.6	16.6	16.3	13.8
Mean	24.9	23.9	23.3	23.8	22.5	20.9

Table H1a5-329. Total Water Supplied to Water Budget Area 2 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	24.3	19.3	19.1	19.8	18.4	16.9
D	24.8	24.3	22.7	23.7	20.4	18.2
BN	24.4	24.3	23.6	24.2	22.6	19.9
AN	25.5	25.4	25.2	25.2	25.1	23.4
W	25.3	25.3	25.2	25.2	25.1	24.8
All	24.9	23.9	23.3	23.8	22.5	20.9

H1a5.6.3 Water Budget Area 3 (Agricultural)

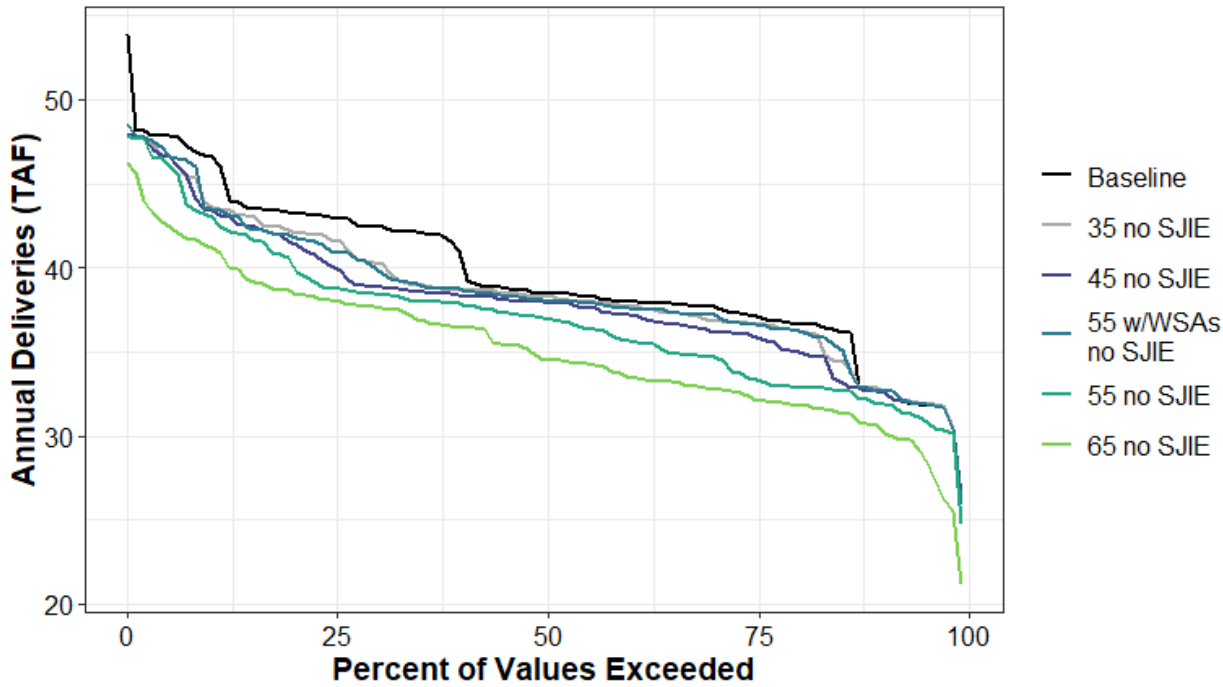

Figure H1a5-163. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-330. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	54	48	48	49	48	46
10%	47	44	43	44	43	41
20%	43	42	41	42	40	38
30%	42	40	39	40	38	38
40%	41	39	38	39	38	36
50%	39	38	38	38	37	35
60%	38	38	37	38	36	34
70%	38	37	36	37	35	33
80%	37	36	35	36	33	32
90%	33	33	33	33	32	31
100%	26	26	26	26	25	21
Mean	40	39	38	39	37	35

Table H1a5-331. Total Water Supplied to Water Budget Area 3 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	44	38	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

H1a5.6.4 Water Budget Area 3 (Urban)

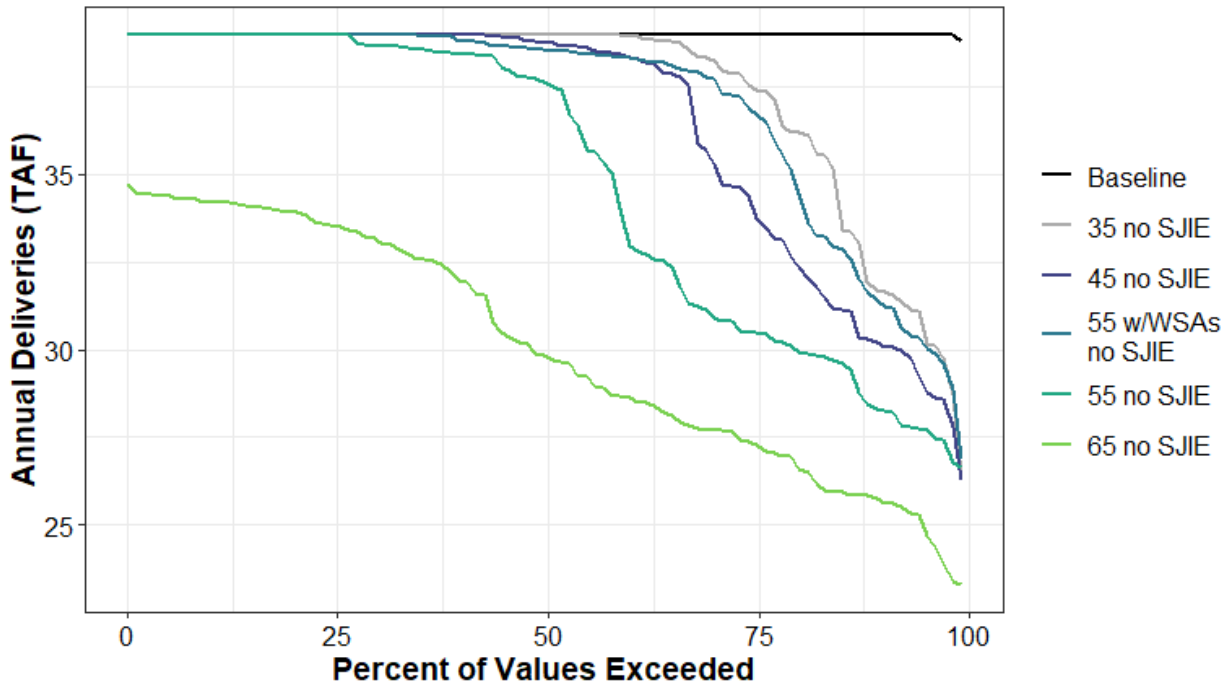

Figure H1a5-164. Total Water Supplied to Water Budget Area 3 (Urban) Annual Percent Exceedance Plot.

Table H1a5-332. Total Water Supplied to Water Budget Area 3 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	35	38	31	28
80%	39	36	33	35	30	27
90%	39	32	30	31	28	26
100%	39	26	26	27	27	23
Mean	39	37	36	37	35	30

Table H1a5-333. Total Water Supplied to Water Budget Area 3 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	39	32	31	32	30	27
D	39	37	35	36	31	27
BN	39	39	38	39	35	29
AN	39	39	39	39	38	33
W	39	39	39	39	39	34
All	39	37	36	37	35	30

H1a5.6.5 Water Budget Areas 4 and 6 (Agricultural)

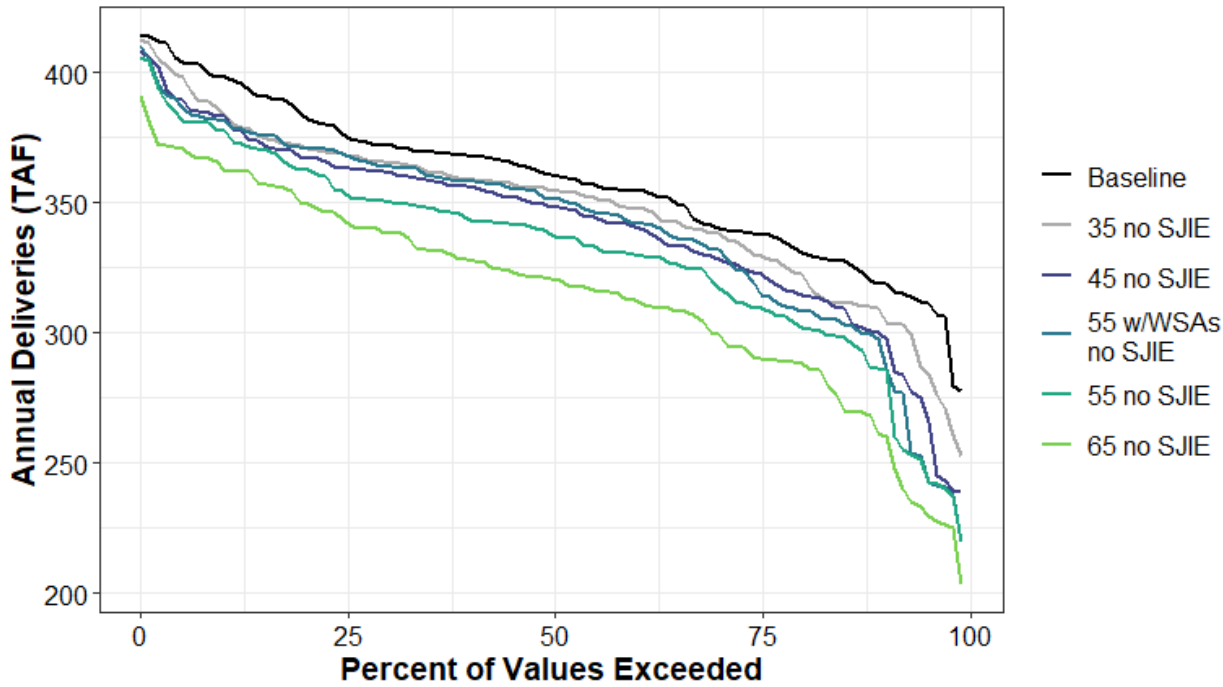

Figure H1a5-165. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-334. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	415	413	408	410	406	391
10%	398	384	383	381	378	363
20%	383	371	367	371	363	350
30%	372	365	362	364	351	338
40%	368	359	356	358	344	328
50%	361	355	349	351	338	321
60%	355	348	341	343	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	342	341	332	316

Table H1a5-335. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	385	363	356	362	345	337
D	369	364	358	361	349	334
BN	364	361	357	360	347	329
AN	343	339	333	333	327	308
W	340	325	315	306	304	285
All	359	348	342	341	332	316

H1a5.6.6 Water Budget Area 5 (Agricultural)

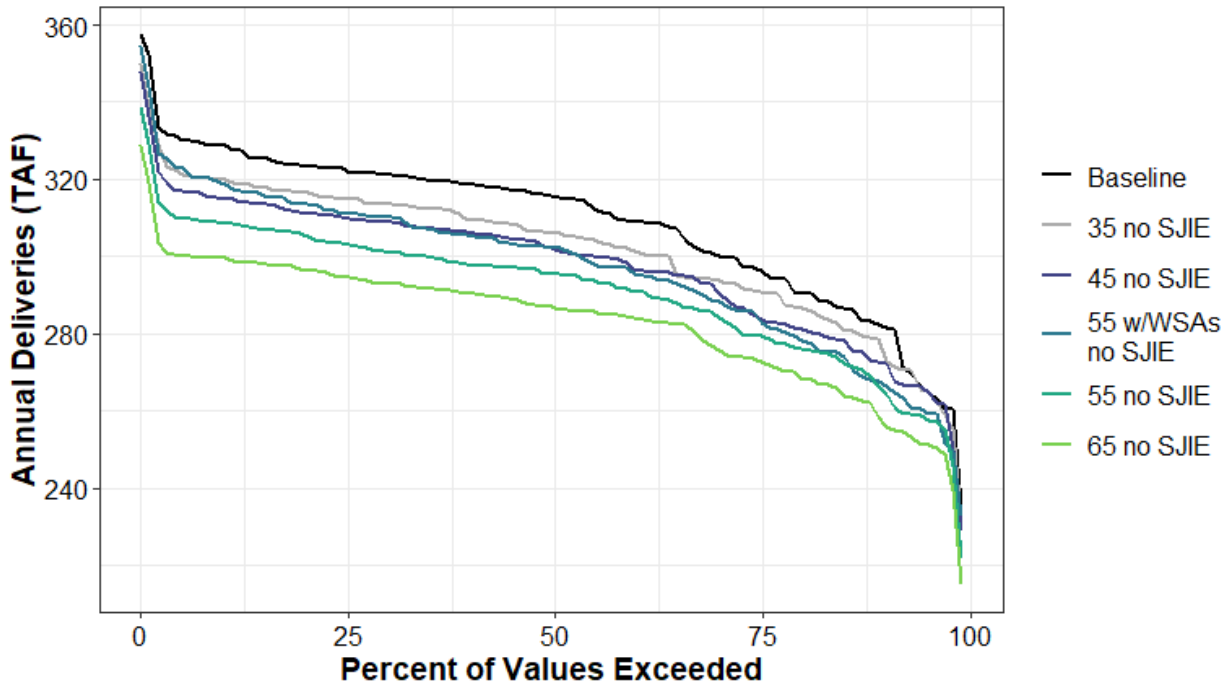

Figure H1a5-166. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-336. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-337. Total Water Supplied to Water Budget Area 5 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.7 Water Budget Area 7 (Agricultural)

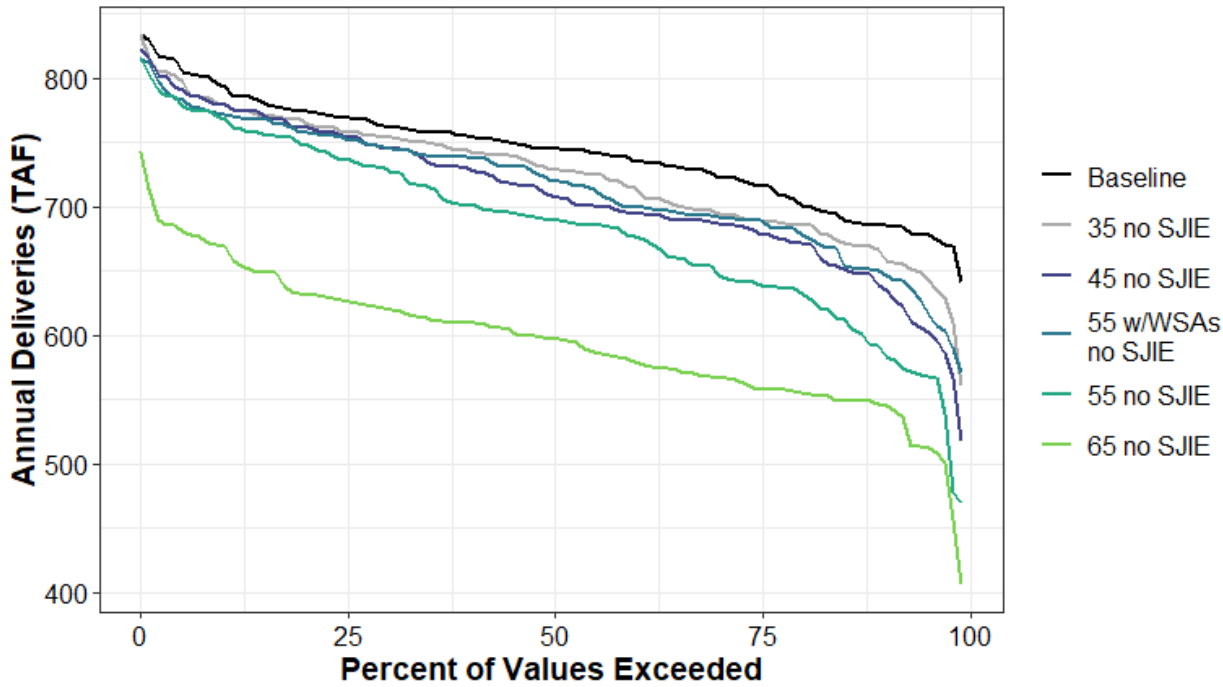

Figure H1a5-167. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-338. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	834	834	822	814	816	742
10%	794	780	779	772	768	669
20%	775	766	761	758	748	632
30%	762	754	745	746	729	621
40%	755	744	730	738	701	609
50%	745	728	708	720	689	597
60%	736	715	695	700	677	580
70%	724	695	687	693	649	567
80%	704	686	671	681	635	556
90%	686	665	638	649	590	546
100%	642	560	517	571	470	406
Mean	743	724	710	715	684	596

Table H1a5-339. Total Water Supplied to Water Budget Area 7 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	754	682	670	674	660	649
D	758	729	690	703	631	591
BN	758	756	735	745	677	579
AN	734	734	734	733	730	587
W	719	720	720	720	720	586
All	743	724	710	715	684	596

H1a5.6.8 Water Budget Area 8 (Agricultural)

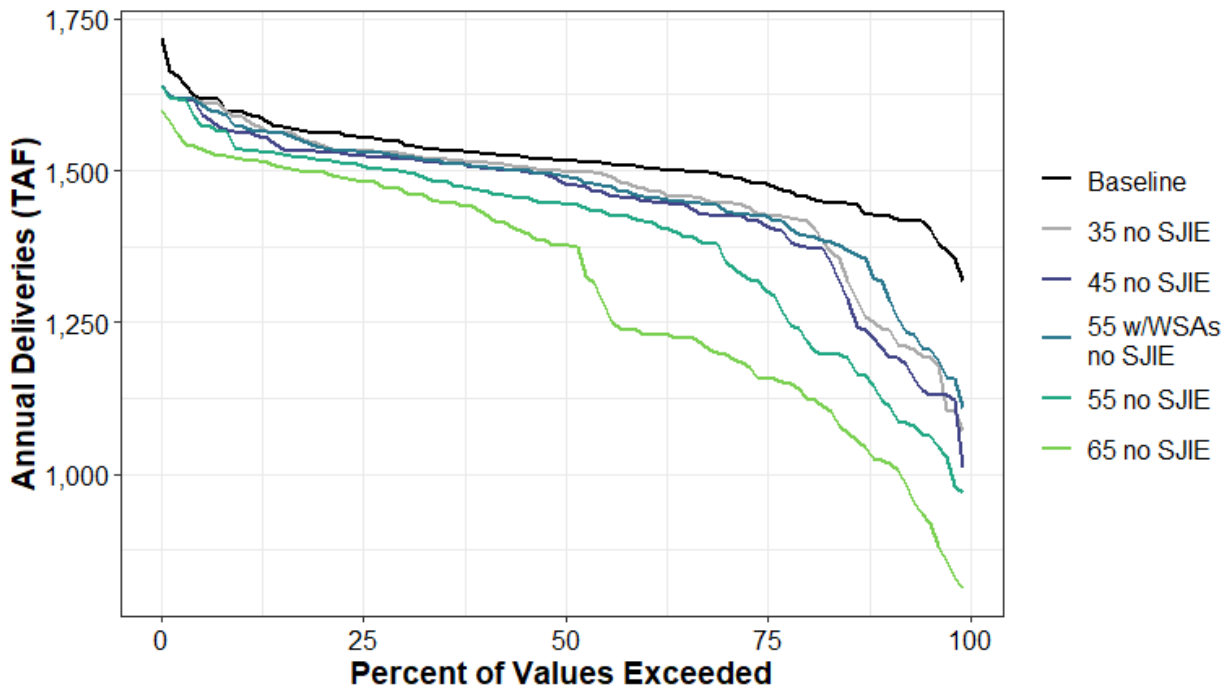

Figure H1a5-168. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-340. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,718	1,639	1,639	1,639	1,639	1,600
10%	1,596	1,588	1,563	1,573	1,534	1,519
20%	1,562	1,543	1,530	1,538	1,518	1,497
30%	1,545	1,528	1,520	1,524	1,498	1,467
40%	1,528	1,512	1,505	1,505	1,467	1,432
50%	1,517	1,500	1,482	1,492	1,446	1,377
60%	1,506	1,472	1,450	1,458	1,417	1,231
70%	1,492	1,446	1,426	1,438	1,362	1,199
80%	1,458	1,418	1,375	1,395	1,233	1,135
90%	1,426	1,240	1,204	1,311	1,120	1,021
100%	1,318	1,071	1,010	1,109	970	811
Mean	1,514	1,461	1,442	1,462	1,391	1,306

Table H1a5-341. Total Water Supplied to Water Budget Area 8 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,572	1,238	1,197	1,278	1,105	1,024
D	1,540	1,536	1,494	1,513	1,363	1,174
BN	1,526	1,530	1,516	1,530	1,476	1,326
AN	1,483	1,489	1,488	1,488	1,490	1,472
W	1,470	1,470	1,470	1,469	1,472	1,474
All	1,514	1,461	1,442	1,462	1,391	1,306

H1a5.6.9 Water Budget Area 8 (Refuge)

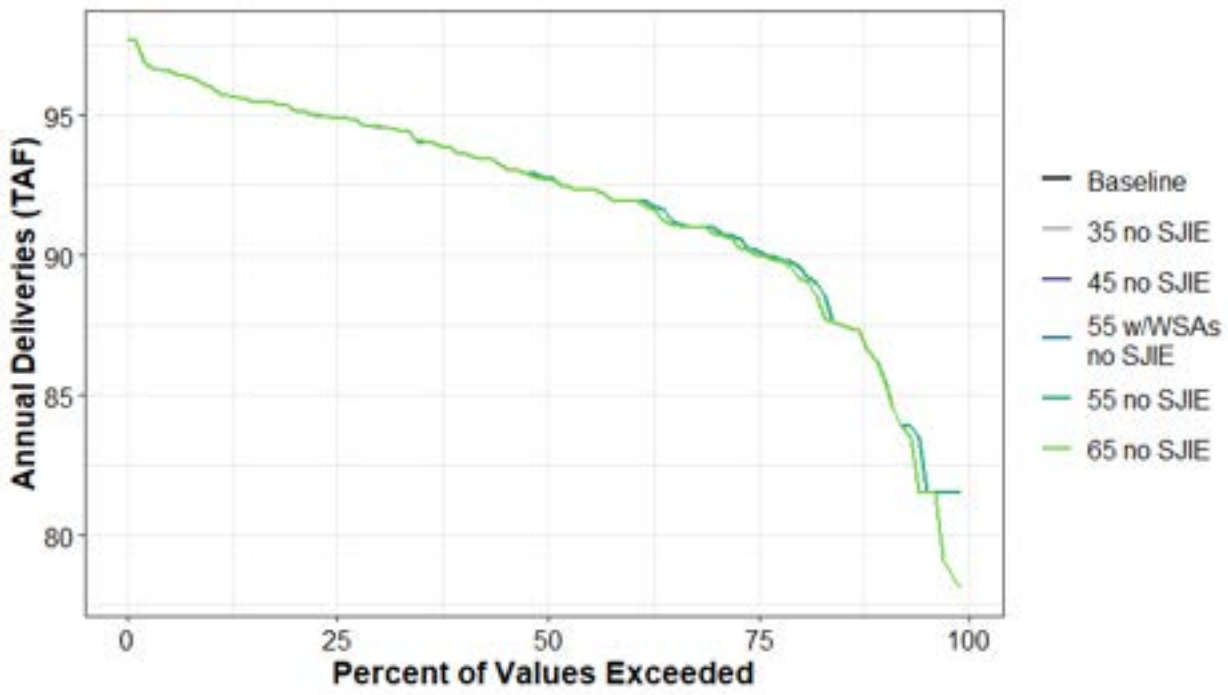

Figure H1a5-169. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Percent Exceedance Plot.

Table H1a5-342. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-343. Total Water Supplied to Water Budget Area 8 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.10Water Budget Area 9 (Agricultural)

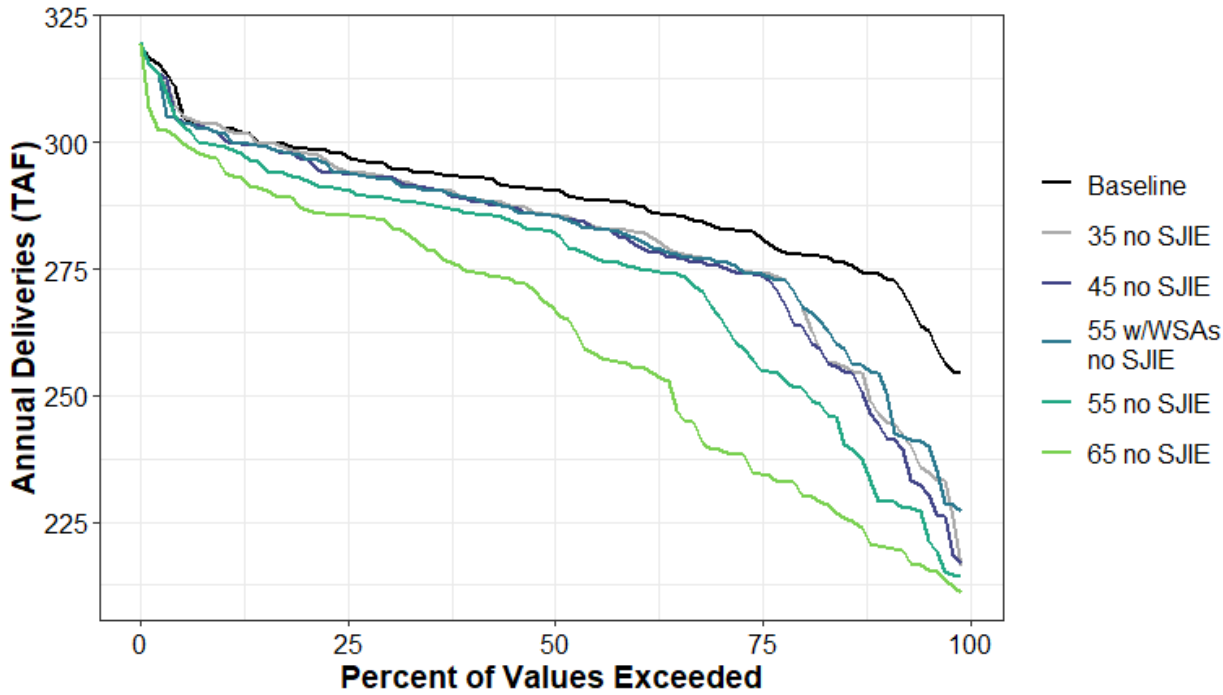

Figure H1a5-170. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-344. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	320	320	320	320	320	319
10%	303	303	301	302	299	294
20%	299	298	297	297	293	287
30%	295	293	293	293	289	284
40%	293	289	289	289	286	274
50%	291	286	286	286	282	268
60%	288	282	280	281	275	256
70%	283	277	276	277	266	239
80%	278	269	264	269	251	232
90%	274	246	244	254	229	220
100%	254	216	217	227	214	211
Mean	289	281	280	281	274	262

Table H1a5-345. Total Water Supplied to Water Budget Area 9 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	297	246	241	252	231	227
D	294	295	293	291	275	242
BN	294	295	293	295	290	269
AN	284	285	286	286	286	283
W	279	279	280	279	280	281
All	289	281	280	281	274	262

H1a5.6.11 Water Budget Area 9 (Refuge)

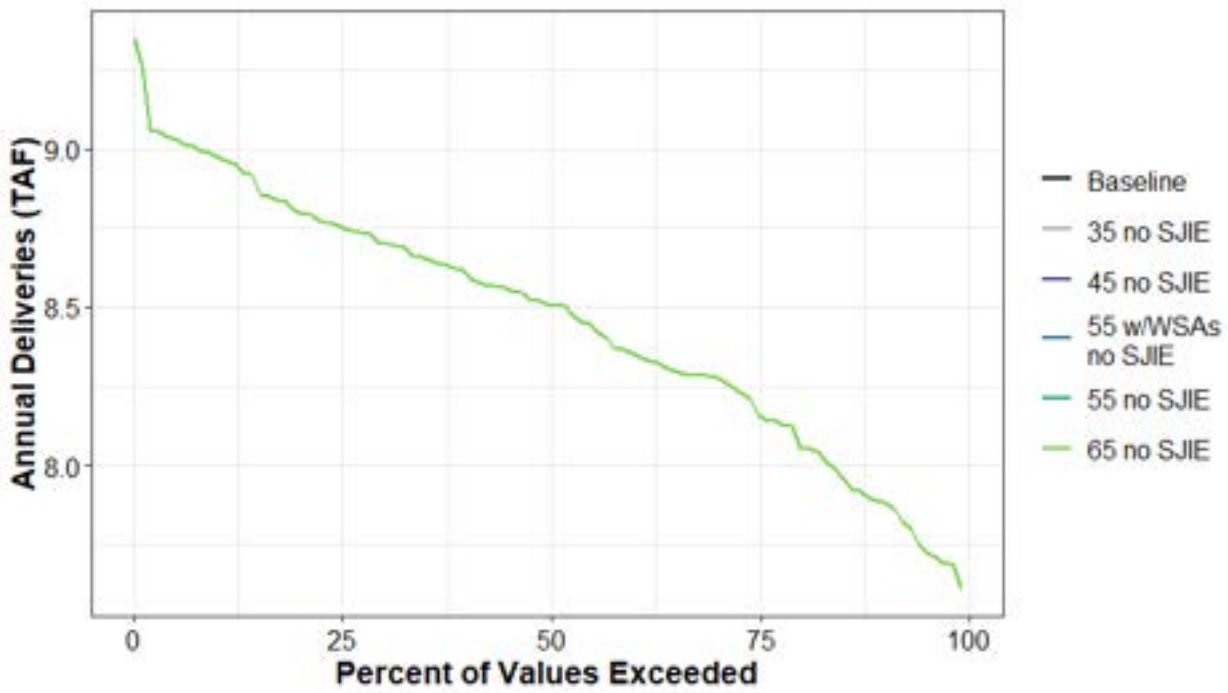

Figure H1a5-171. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Percent Exceedance Plot.

Table H1a5-346. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-347. Total Water Supplied to Water Budget Area 9 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.12 Water Budget Area 10 (Agricultural)

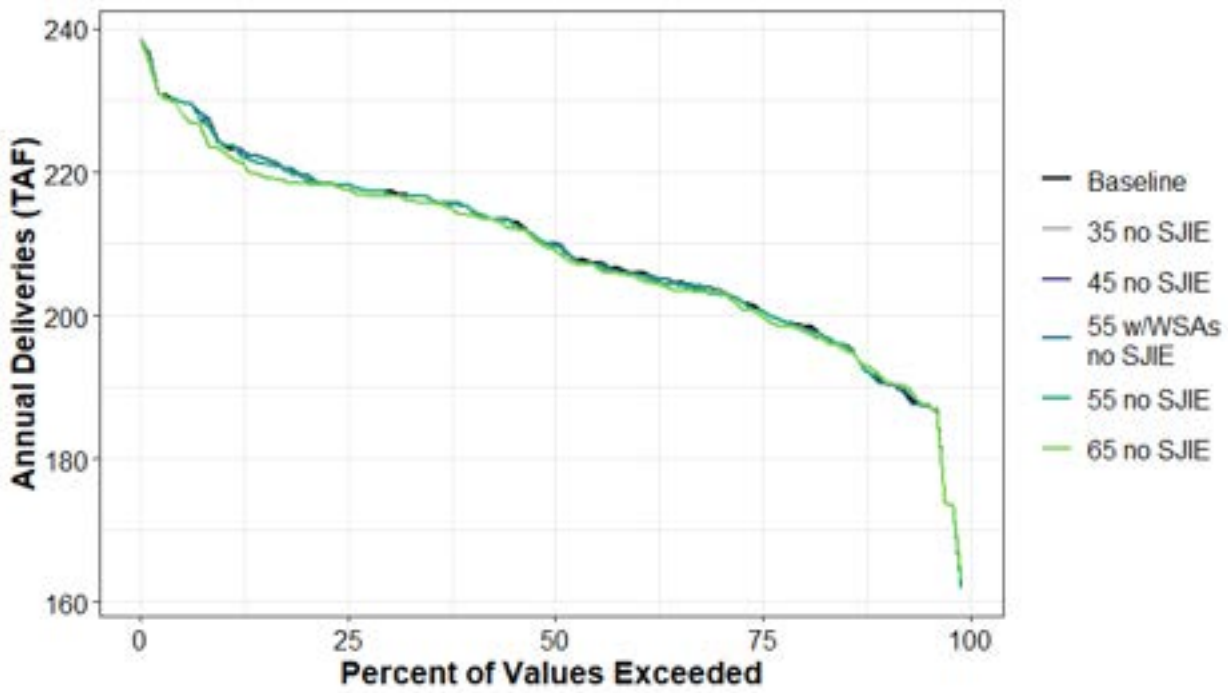

Figure H1a5-172. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-348. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	198	198	198
90%	191	191	191	191	191	192
100%	162	162	162	162	162	163
Mean	209	209	209	209	209	208

Table H1a5-349. Total Water Supplied to Water Budget Area 10 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.13 Water Budget Area 11 (Agricultural)

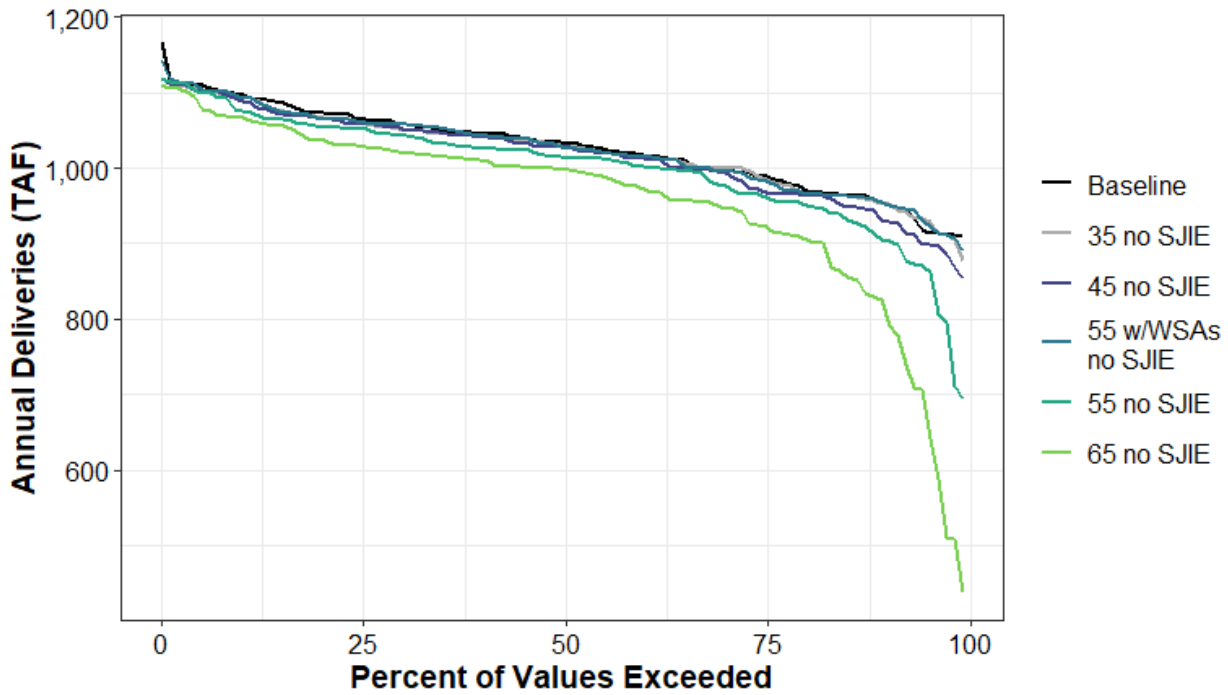

Figure H1a5-173. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-350. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,167	1,120	1,120	1,142	1,119	1,111
10%	1,098	1,094	1,089	1,094	1,076	1,066
20%	1,074	1,067	1,066	1,066	1,056	1,038
30%	1,059	1,051	1,052	1,058	1,044	1,021
40%	1,046	1,042	1,041	1,044	1,027	1,010
50%	1,034	1,029	1,028	1,028	1,014	999
60%	1,018	1,013	1,012	1,016	1,002	974
70%	999	1,000	995	996	978	949
80%	974	967	965	969	952	908
90%	953	953	930	954	904	819
100%	910	877	855	890	695	438
Mean	1,027	1,023	1,016	1,024	1,000	956

Table H1a5-351. Total Water Supplied to Water Budget Area 11 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,048	1,022	1,009	1,034	953	850
D	1,054	1,055	1,050	1,056	1,027	988
BN	1,042	1,044	1,035	1,044	1,029	959
AN	1,008	1,010	1,003	1,010	1,000	975
W	993	991	989	987	986	980
All	1,027	1,023	1,016	1,024	1,000	956

H1a5.6.14Water Budget Area 11 (Refuge)

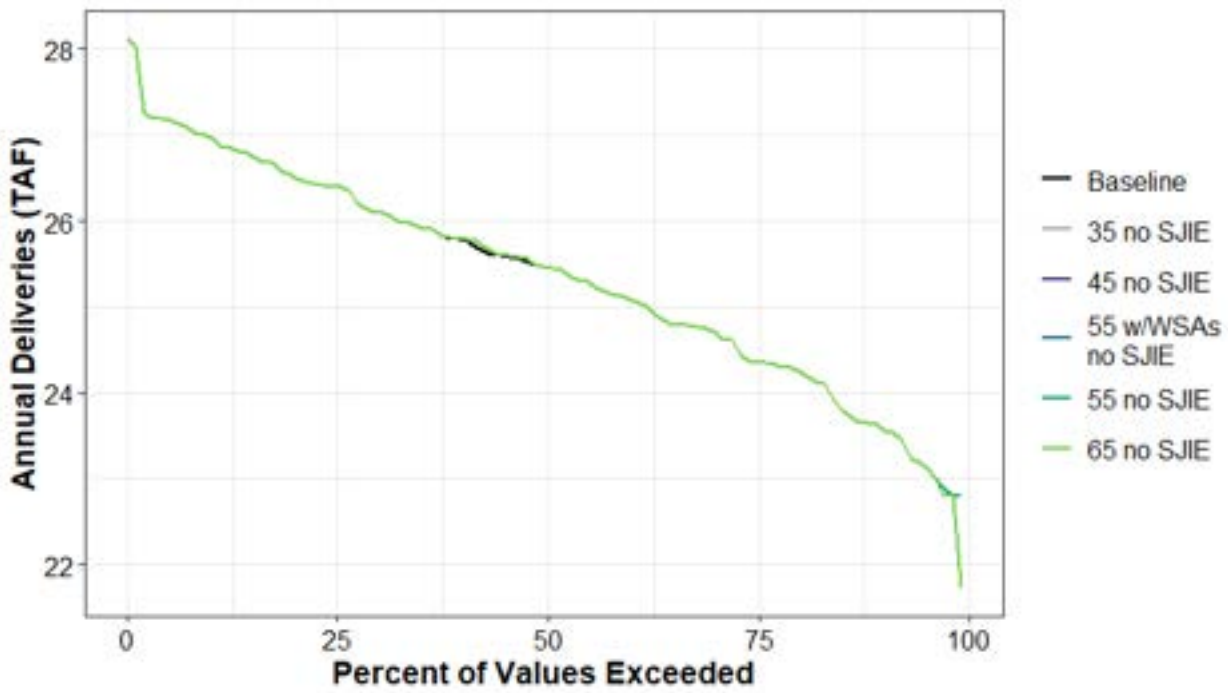

Figure H1a5-174. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Percent Exceedance Plot.

Table H1a5-352. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-353. Total Water Supplied to Water Budget Area 11 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.15 Water Budget Area 11 (Urban)

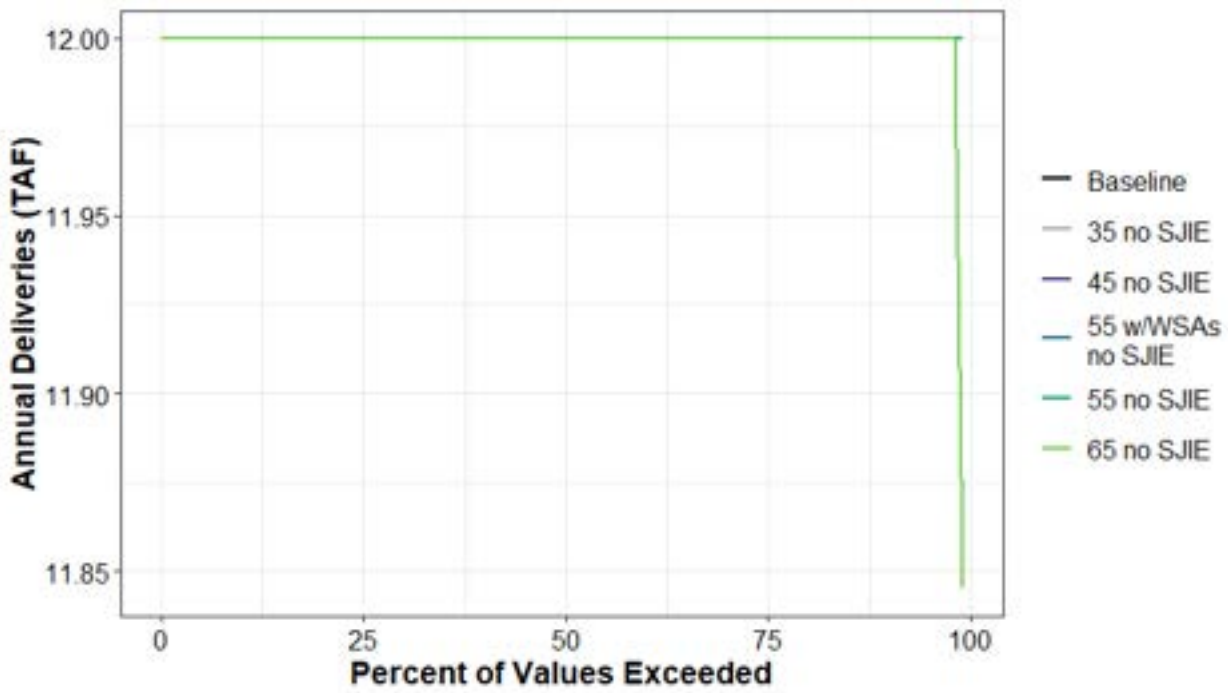

Figure H1a5-175. Total Water Supplied to Water Budget Area 11 (Urban) Annual Percent Exceedance Plot.

Table H1a5-354. Total Water Supplied to Water Budget Area 11 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-355. Total Water Supplied to Water Budget Area 11 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.16 Water Budget Areas 12 and 13 (Agricultural)

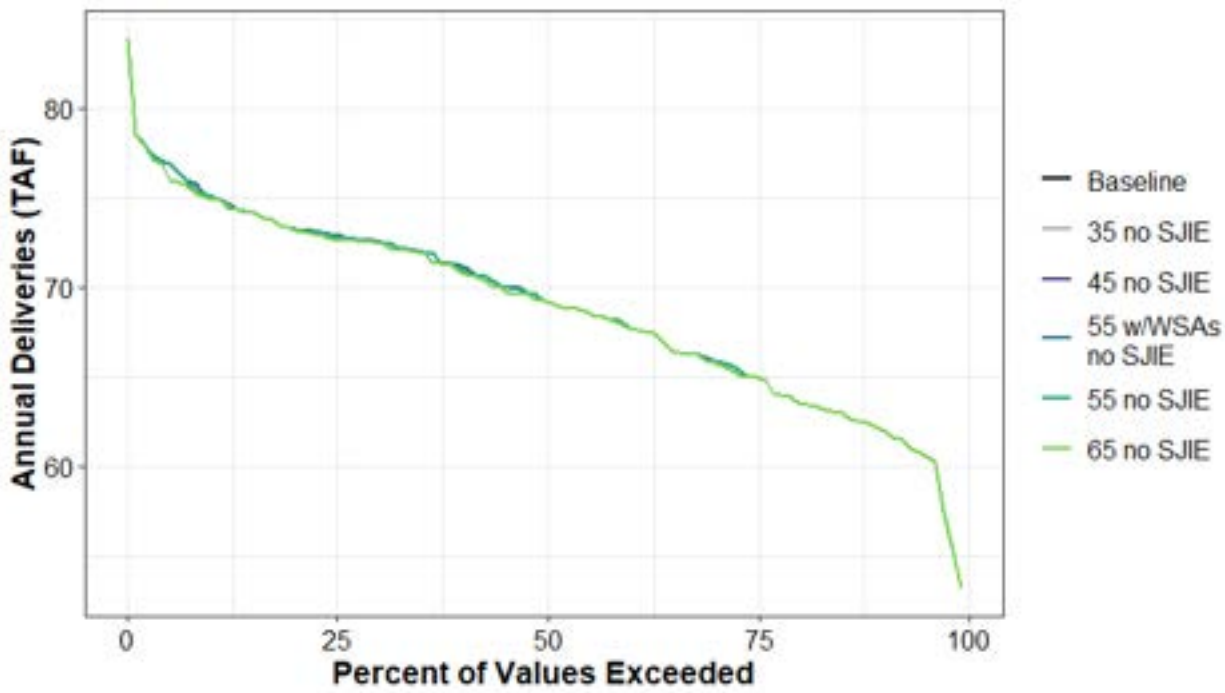

Figure H1a5-176. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-356. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-357. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.17Water Budget Areas 12 and 13 (Urban)

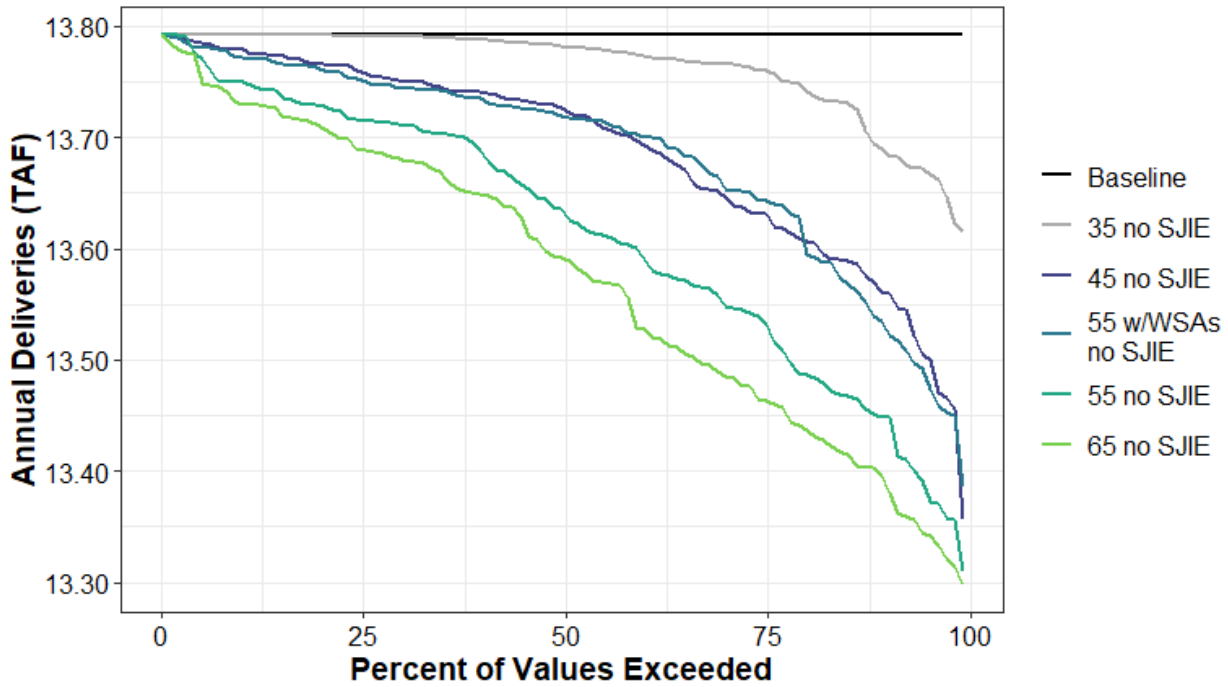

Figure H1a5-177. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Percent Exceedance Plot.

Table H1a5-358. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	13.8	13.8	13.8	13.8	13.8	13.8
10%	13.8	13.8	13.8	13.8	13.8	13.7
20%	13.8	13.8	13.8	13.8	13.7	13.7
30%	13.8	13.8	13.8	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	13.7	13.6	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	13.4	13.4	13.3	13.3
Mean	13.8	13.8	13.7	13.7	13.6	13.6

Table H1a5-359. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	13.8	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	13.7
All	13.8	13.8	13.7	13.7	13.6	13.6

H1a5.6.18Water Budget Areas 14 and 15N (Agricultural)

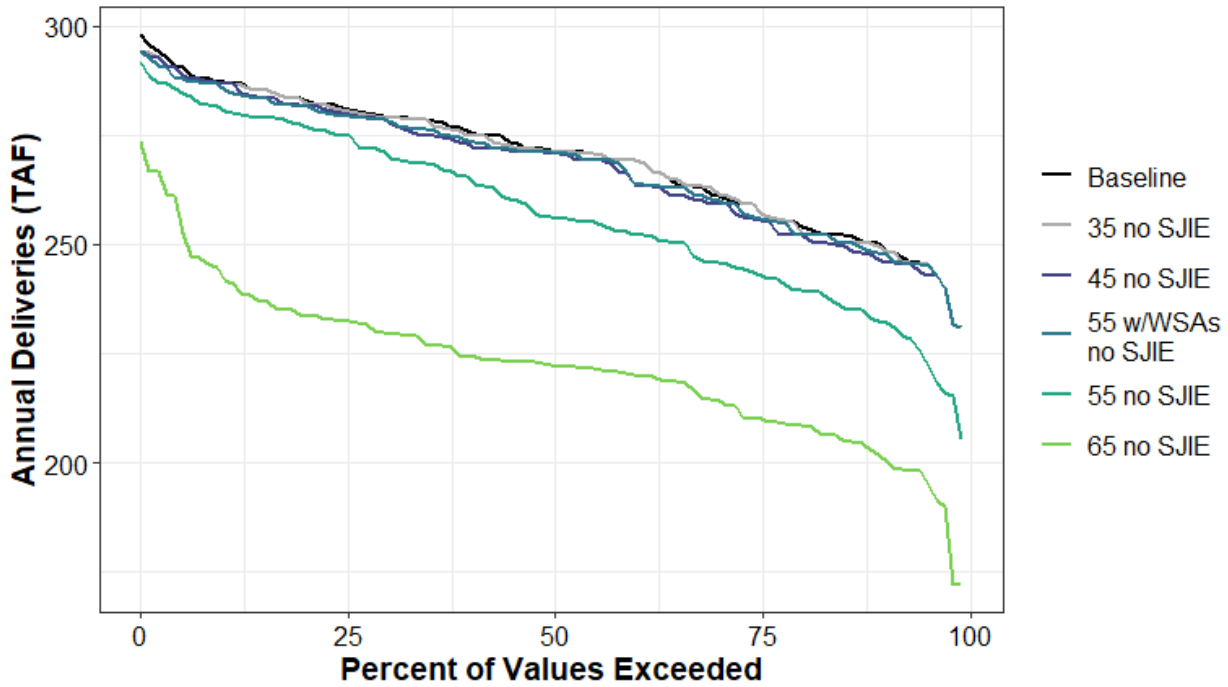

Figure H1a5-178. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-360. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-361. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.19 Water Budget Areas 14 and 15N (Urban)

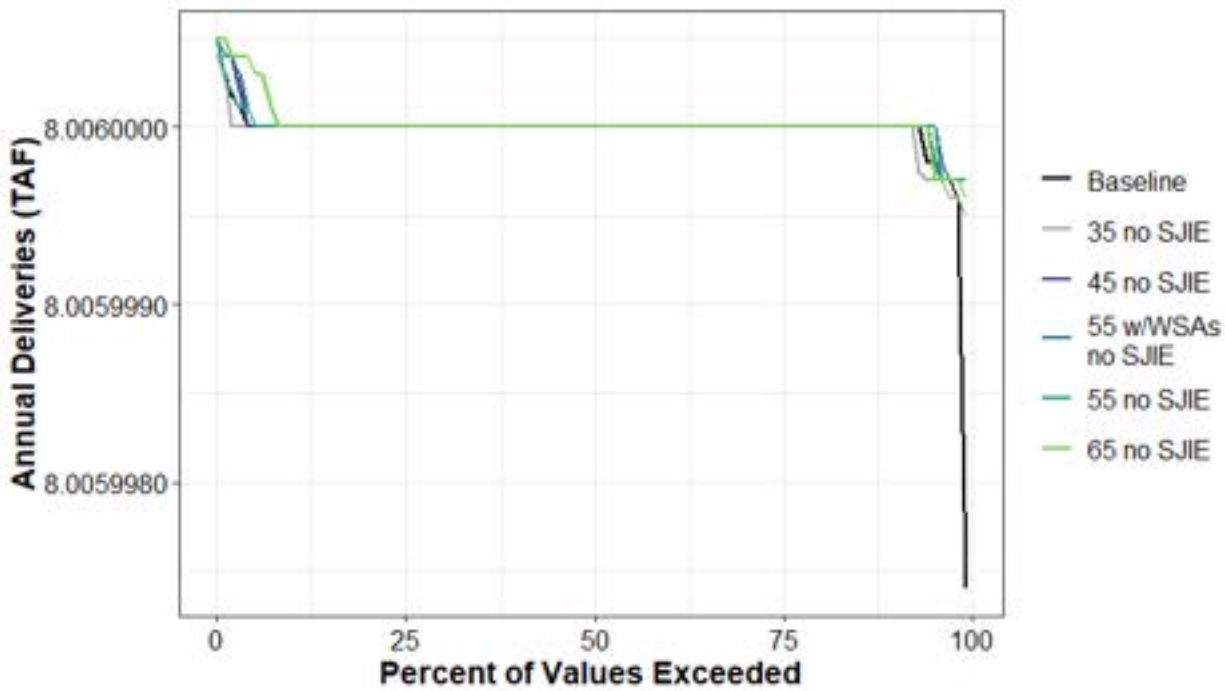

Figure H1a5-179. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Percent Exceedance Plot.

Table H1a5-362. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-363. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.20Water Budget Area 15S (Agricultural)

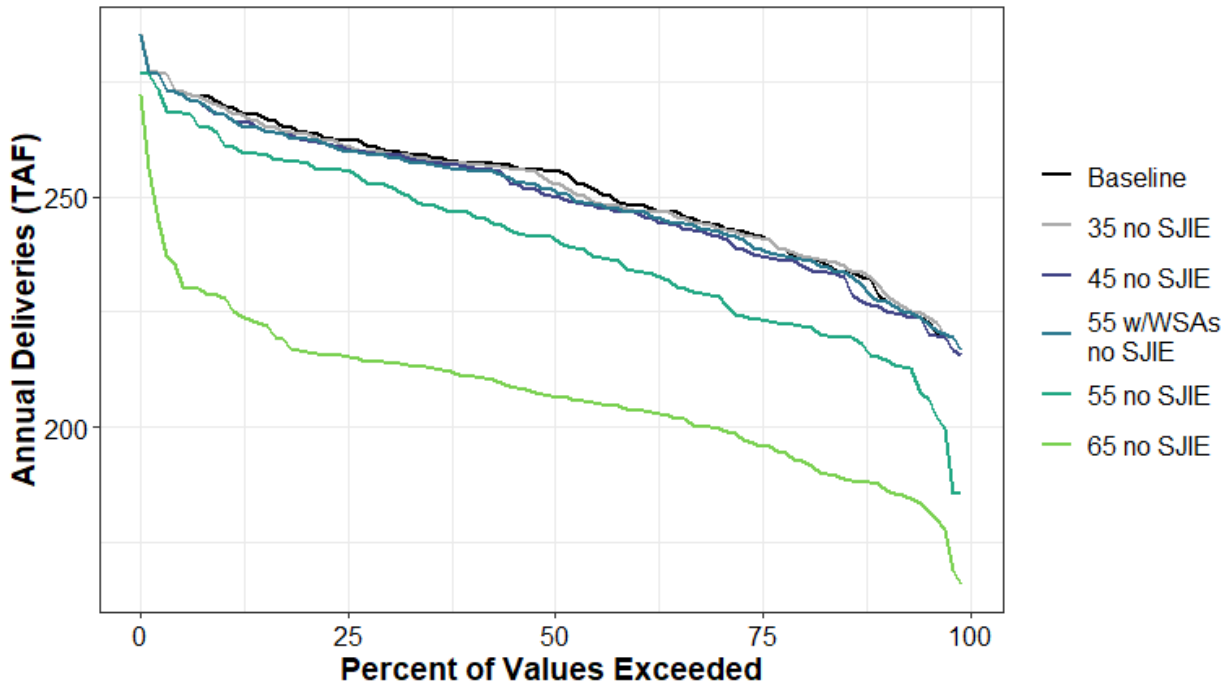

Figure H1a5-180. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-364. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	216	217	186	166
Mean	252	251	249	250	239	207

Table H1a5-365. Total Water Supplied to Water Budget Area 15S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.21 Water Budget Area 16 (Agricultural)

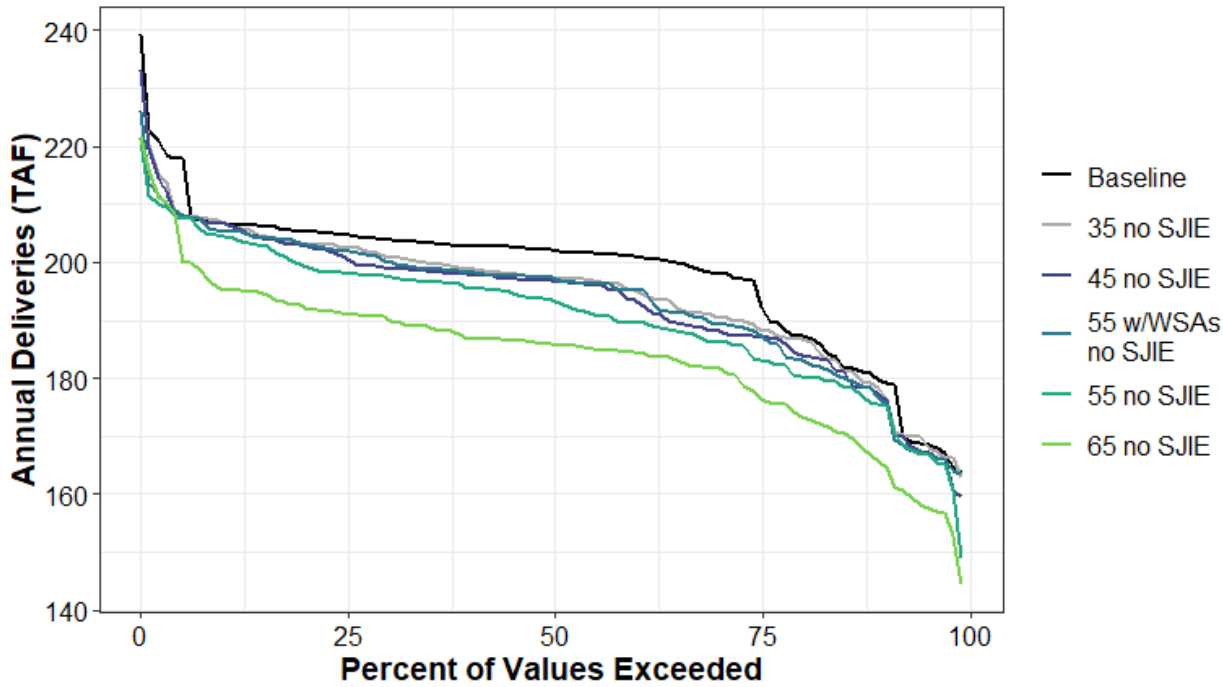

Figure H1a5-181. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-366. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	239	233	233	226	221	222
10%	207	207	207	205	205	195
20%	205	203	203	203	199	192
30%	204	201	199	200	198	190
40%	203	199	198	198	196	187
50%	202	197	197	197	194	186
60%	201	195	194	195	190	185
70%	198	191	188	189	186	182
80%	187	187	184	183	180	174
90%	180	178	177	177	176	165
100%	164	163	160	163	149	144
Mean	198	195	193	194	191	184

Table H1a5-367. Total Water Supplied to Water Budget Area 16 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	209	201	201	202	198	196
D	202	199	196	196	190	188
BN	198	195	194	195	190	181
AN	194	191	192	192	191	180
W	191	189	188	188	188	178
All	198	195	193	194	191	184

H1a5.6.22 Water Budget Area 16 (Urban)

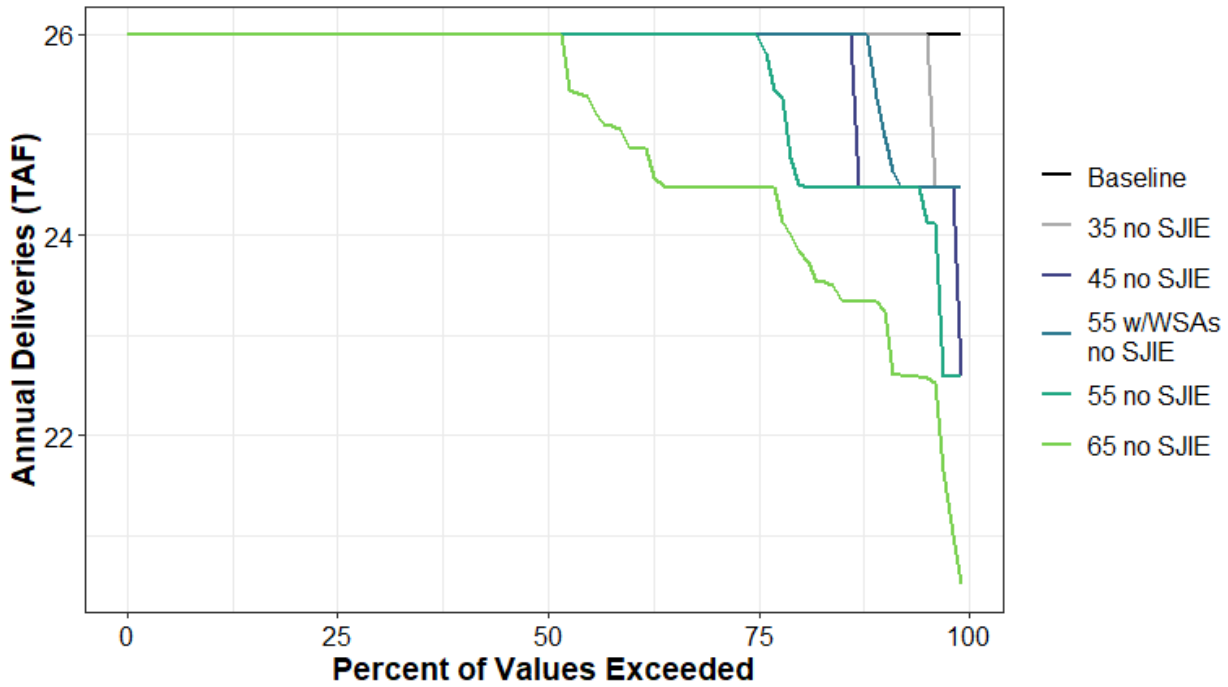

Figure H1a5-182. Total Water Supplied to Water Budget Area 16 (Urban) Annual Percent Exceedance Plot.

Table H1a5-368. Total Water Supplied to Water Budget Area 16 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	24.7	23.9
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 H1a5-369. Total Water Supplied to Water Budget Area 16 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	26	25.7	25.6	25.6	25.6	25.6
D	26	25.9	25.6	25.6	25.2	24.6
BN	26	26	25.7	26	25.3	24
AN	26	26	26	26	25.8	24.6
W	26	26	26	26	26	25.8
All	26	25.9	25.8	25.8	25.6	25

H1a5.6.23 Water Budget Area 17 (Agricultural)

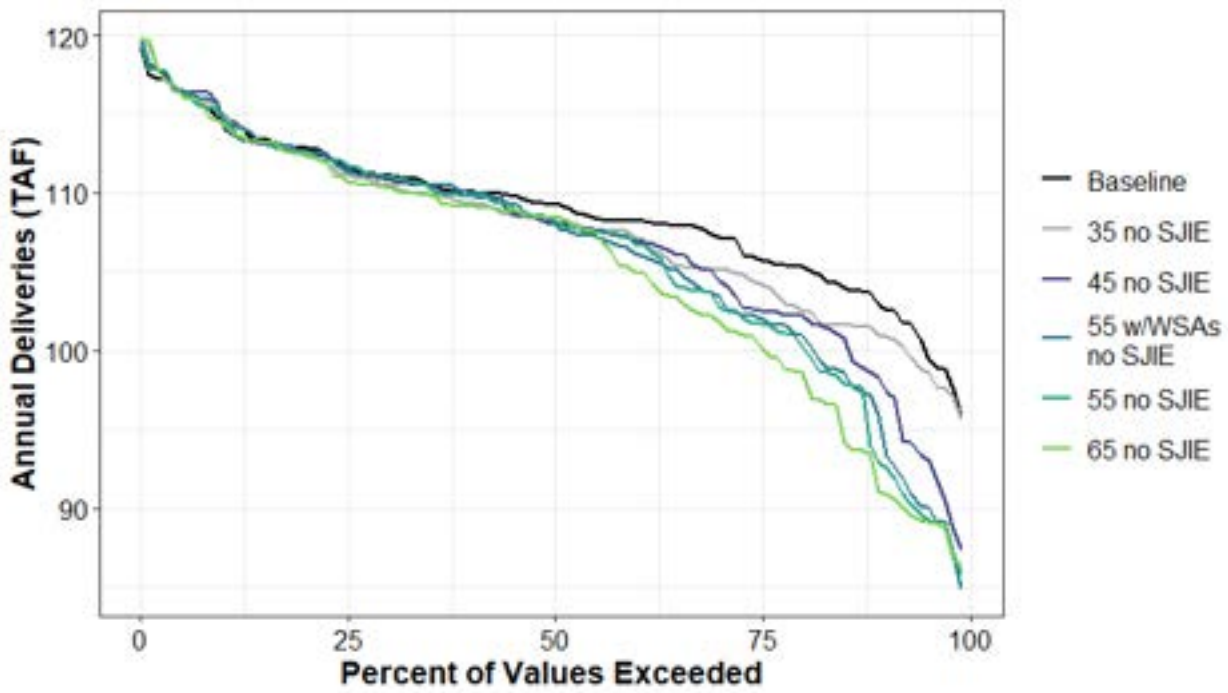

Figure H1a5-183. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-370. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	119	120	120	120	120	120
10%	115	115	114	115	115	114
20%	113	113	113	113	112	112
30%	111	111	111	111	111	110
40%	110	109	110	110	110	109
50%	109	108	108	108	108	108
60%	108	107	107	106	107	105
70%	107	105	105	104	103	102
80%	105	103	102	101	101	99
90%	103	101	98	95	93	91
100%	96	96	87	85	86	86
Mean	109	108	107	106	106	105

Table H1a5-371. Total Water Supplied to Water Budget Area 17 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	112	112	113	113	112	112
D	110	110	110	110	110	110
BN	110	108	108	108	108	107
AN	107	107	104	104	103	102
W	107	105	103	100	100	99
All	109	108	107	106	106	105

H1a5.6.24Water Budget Area 17 (Refuge)

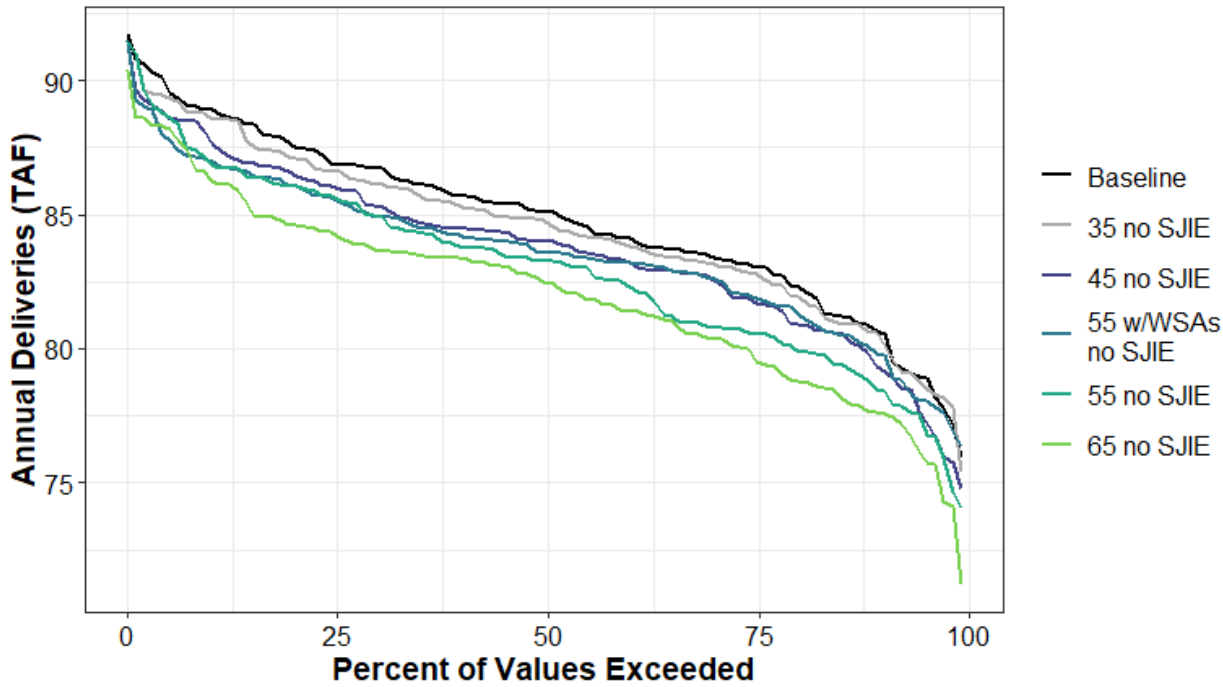

Figure H1a5-184. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Percent Exceedance Plot.

Table H1a5-372. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	92	91	91	91	91	90
10%	89	89	88	87	87	86
20%	88	87	87	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	80
80%	82	82	81	81	80	79
90%	81	81	79	80	78	78
100%	76	75	75	76	74	71
Mean	85	84	84	84	83	82

Table H1a5-373. Total Water Supplied to Water Budget Area 17 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	84	84	83	84	81	80
D	85	85	84	84	83	81
BN	85	85	84	84	84	83
AN	84	85	83	83	82	82
W	85	85	84	83	83	84
All	85	84	84	84	83	82

H1a5.6.25 Water Budget Areas 18 and 19 (Agricultural)

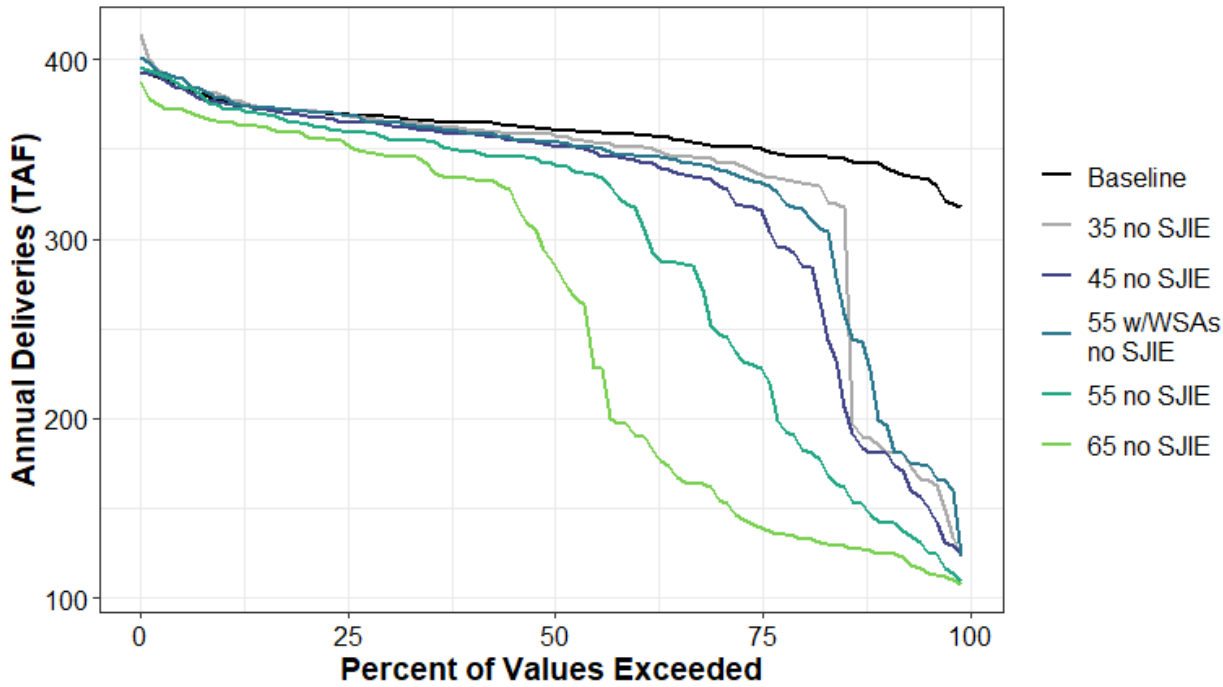

Figure H1a5-185. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-374. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	393	414	393	401	395	387
10%	377	380	376	378	373	365
20%	371	372	369	371	364	358
30%	368	366	364	365	356	347
40%	365	361	359	359	349	334
50%	361	358	353	354	342	288
60%	358	351	344	347	318	192
70%	352	343	331	339	249	157
80%	346	332	290	317	188	134
90%	341	184	181	199	143	125
100%	318	124	124	123	109	107
Mean	360	333	321	331	294	254

Table H1a5-375. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	364	194	177	207	154	148
D	367	366	334	349	249	144
BN	366	368	358	368	335	256
AN	356	358	358	357	356	351
W	350	350	350	350	352	353
All	360	333	321	331	294	254

H1a5.6.26Water Budget Areas 20 and 25 (Agricultural)

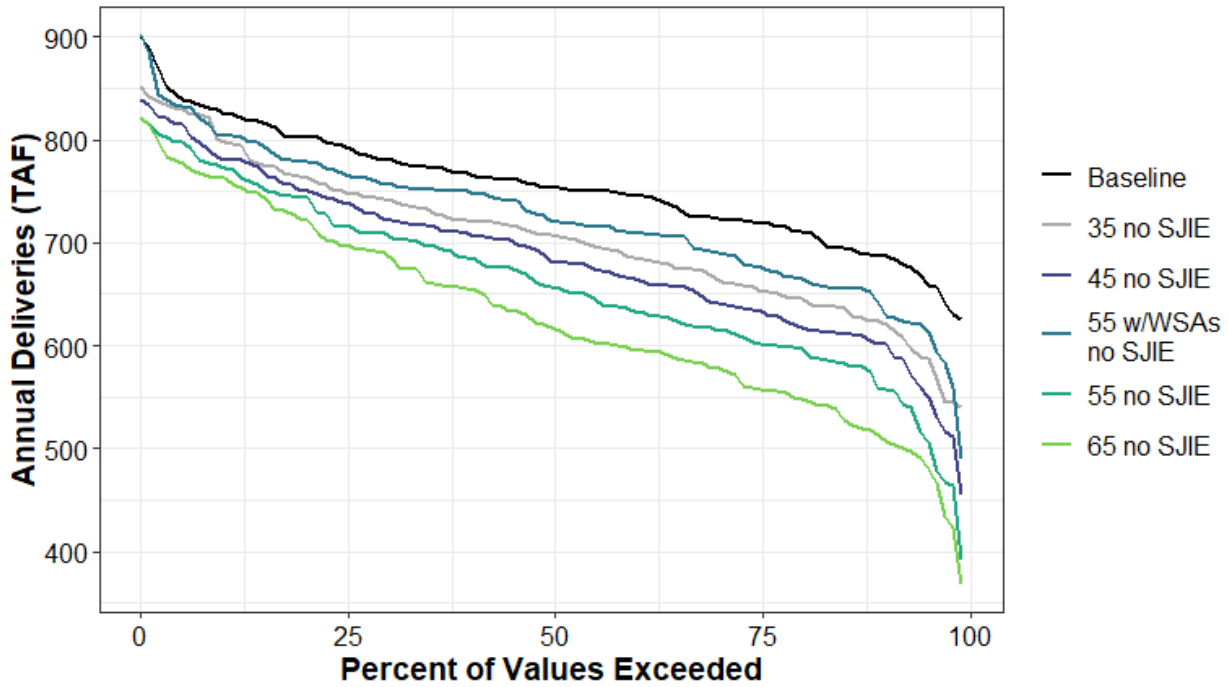

Figure H1a5-186. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-376. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	900	851	839	902	821	821
10%	826	799	782	804	773	763
20%	802	763	750	779	744	722
30%	781	742	722	757	707	687
40%	766	721	709	749	685	656
50%	754	708	681	721	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	639	557	512
100%	625	540	455	489	392	368
Mean	755	705	685	724	660	628

Table H1a5-377. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	794	717	699	760	677	653
D	777	708	680	741	640	601
BN	768	692	667	710	630	591
AN	738	703	680	715	657	602
W	718	705	695	704	685	669
All	755	705	685	724	660	628

H1a5.6.27Water Budget Areas 20 and 25 (Urban)

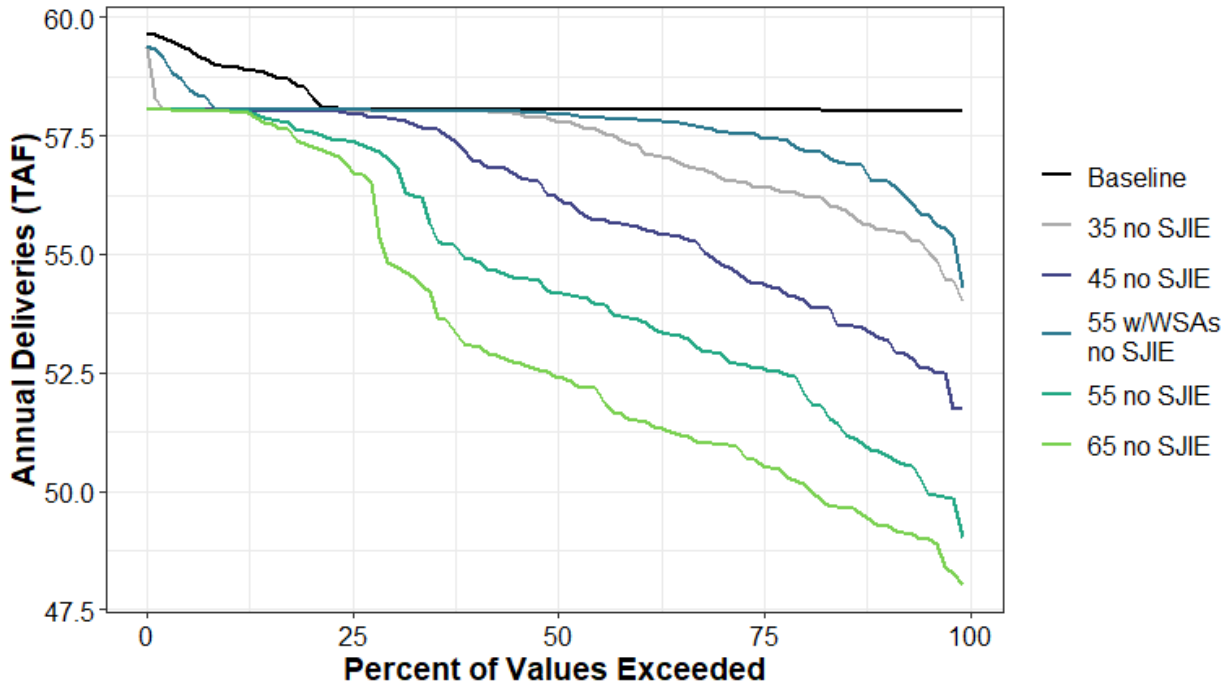

Figure H1a5-187. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Percent Exceedance Plot.

Table H1a5-378. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	60	59	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	56	58	54	51
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	49	48
Mean	58	57	56	58	54	53

Table H1a5-379. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	55	53
W	58	58	58	58	57	57
All	58	57	56	58	54	53

H1a5.6.28Water Budget Area 21 (Agricultural)

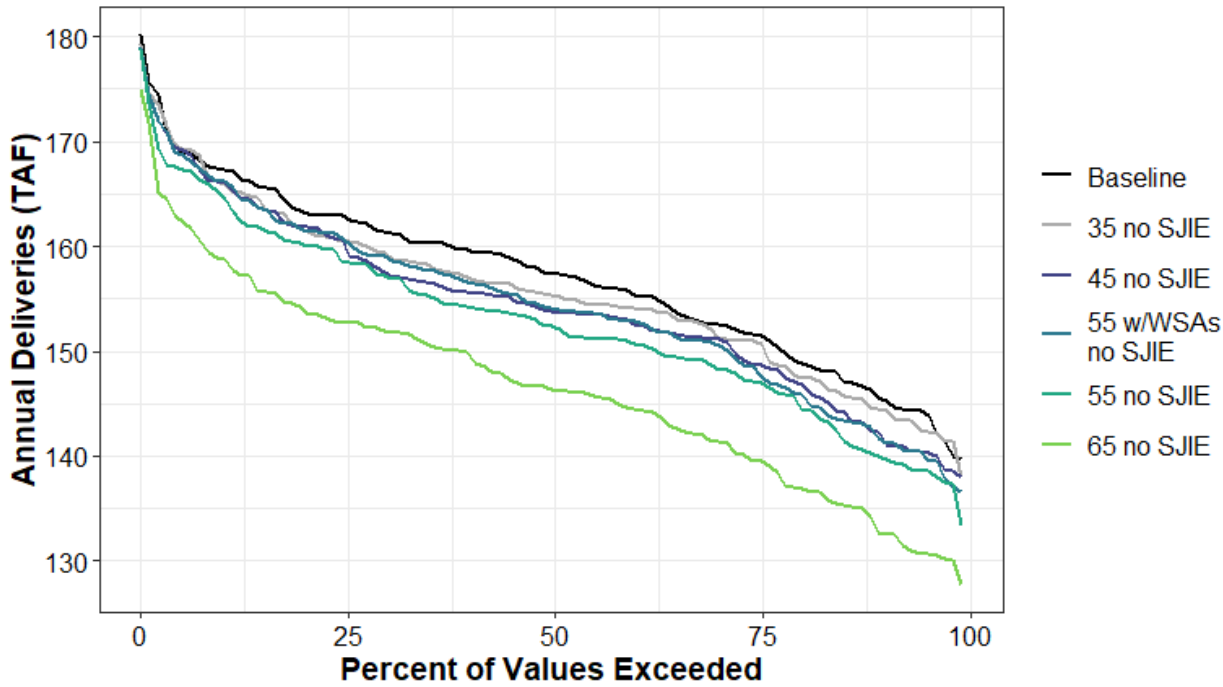

Figure H1a5-188. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-380. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	180	179	179	179	179	175
10%	167	166	166	166	165	159
20%	163	162	162	162	160	154
30%	161	159	157	159	157	152
40%	160	157	156	157	154	150
50%	157	155	154	154	152	146
60%	156	154	153	153	151	144
70%	153	152	151	151	148	141
80%	149	148	147	146	145	137
90%	145	145	142	142	140	133
100%	140	138	138	137	133	128
Mean	157	156	154	154	153	147

Table H1a5-381. Total Water Supplied to Water Budget Area 21 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	164	162	161	161	160	154
D	160	158	156	157	153	151
BN	158	157	156	156	153	147
AN	155	154	153	153	153	145
W	151	150	149	148	148	140
All	157	156	154	154	153	147

H1a5.6.29Water Budget Area 21 (Urban)

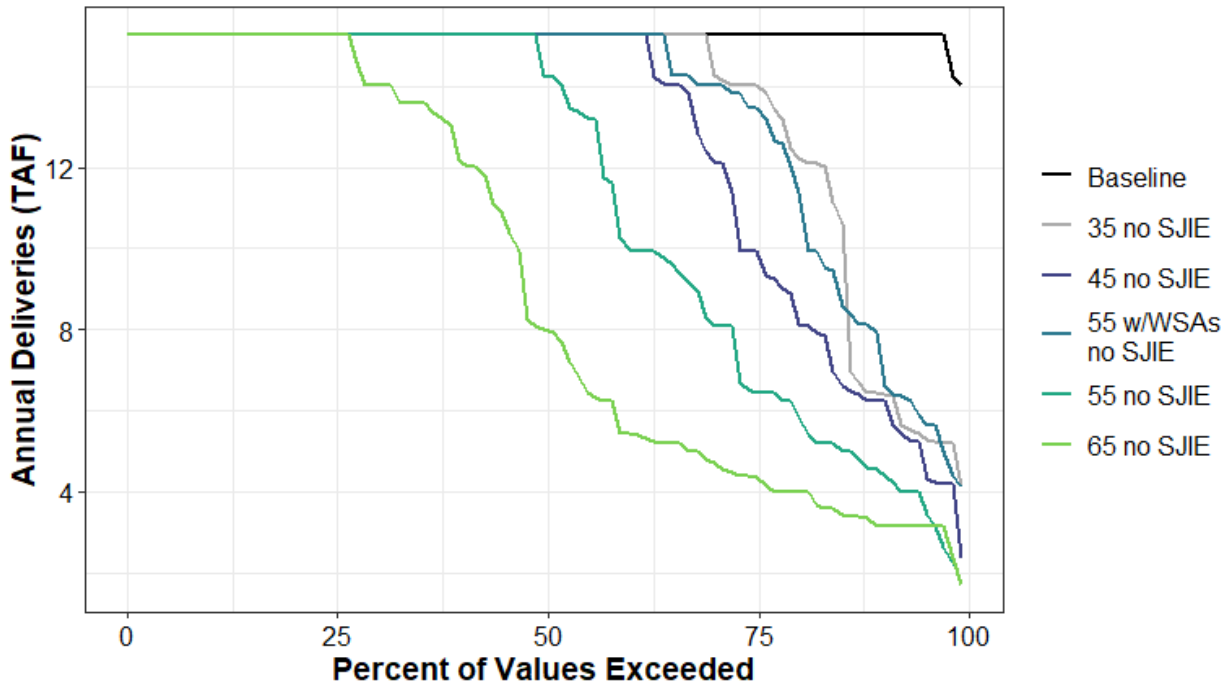

Figure H1a5-189. Total Water Supplied to Water Budget Area 21 (Urban) Annual Percent Exceedance Plot.

Table H1a5-382. Total Water Supplied to Water Budget Area 21 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	12.2
50%	15.3	15.3	15.3	15.3	14.3	8
60%	15.3	15.3	15.3	15.3	10	5.4
70%	15.3	14.7	12.2	14.1	8.2	4.8
80%	15.3	12.4	8.6	11.8	6.1	4
90%	15.3	6.4	6.2	7.7	4.5	3.2
100%	14.1	4.1	2.3	4.1	1.8	1.7
Mean	15.3	13.6	12.8	13.4	11.4	9.2

Table H1a5-383. Total Water Supplied to Water Budget Area 21 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	15.3	7	6	7	4.4	3.5
D	15.3	14	11.9	13.3	8.5	4.8
BN	15.2	15	14.1	15.1	12.4	7.7
AN	15.2	15	15.1	15.1	14.7	13.5
W	15.3	15.3	15.3	15.3	15.2	14.8
All	15.3	13.6	12.8	13.4	11.4	9.2

H1a5.6.30Water Budget Area 22 (Agricultural)

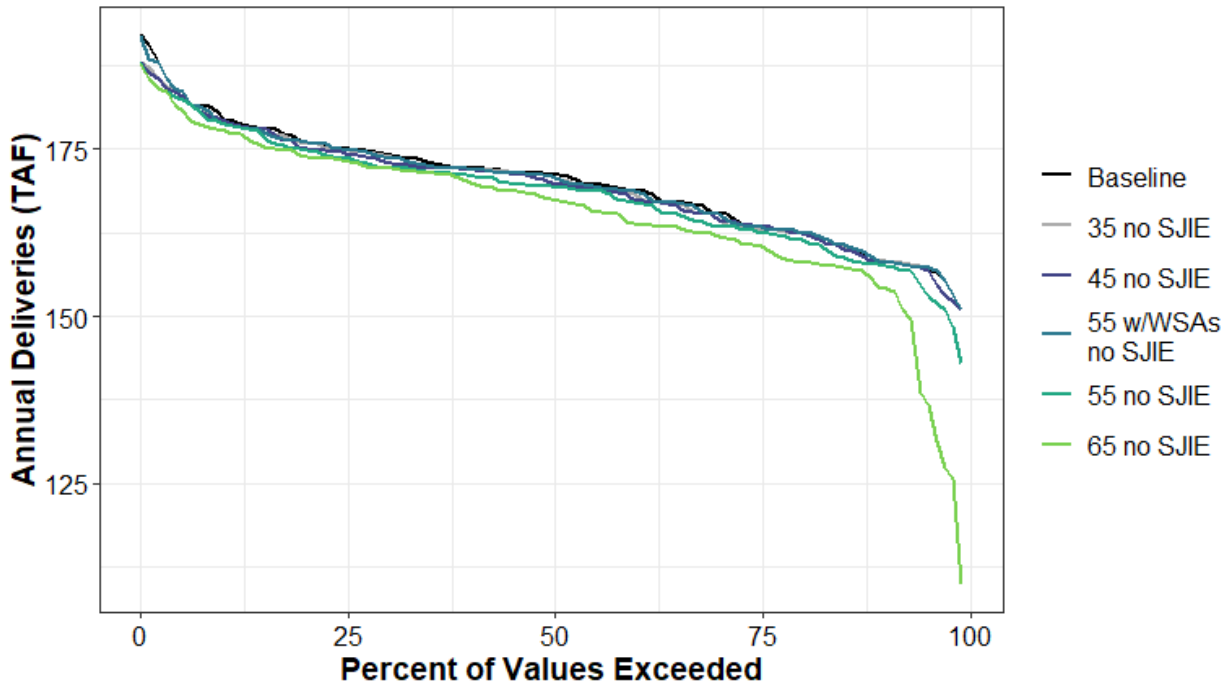

Figure H1a5-190. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-384. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	192	188	188	192	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	168
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	143	110
Mean	170	170	169	170	168	166

Table H1a5-385. Total Water Supplied to Water Budget Area 22 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	178	175	173	176	167	154
D	173	173	173	173	173	172
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	166

H1a5.6.31 Water Budget Area 23 (Agricultural)

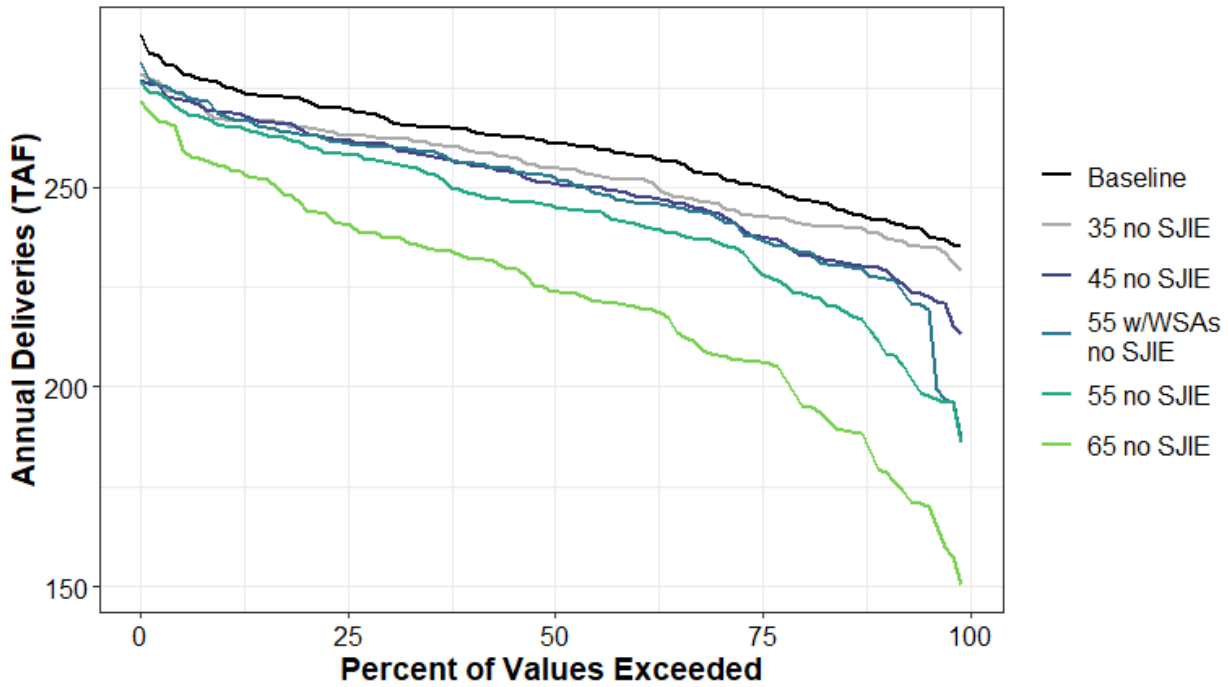

Figure H1a5-191. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-386. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	248	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 H1a5-387. Total Water Supplied to Water Budget Area 23 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.32 Water Budget Area 24 (Agricultural)

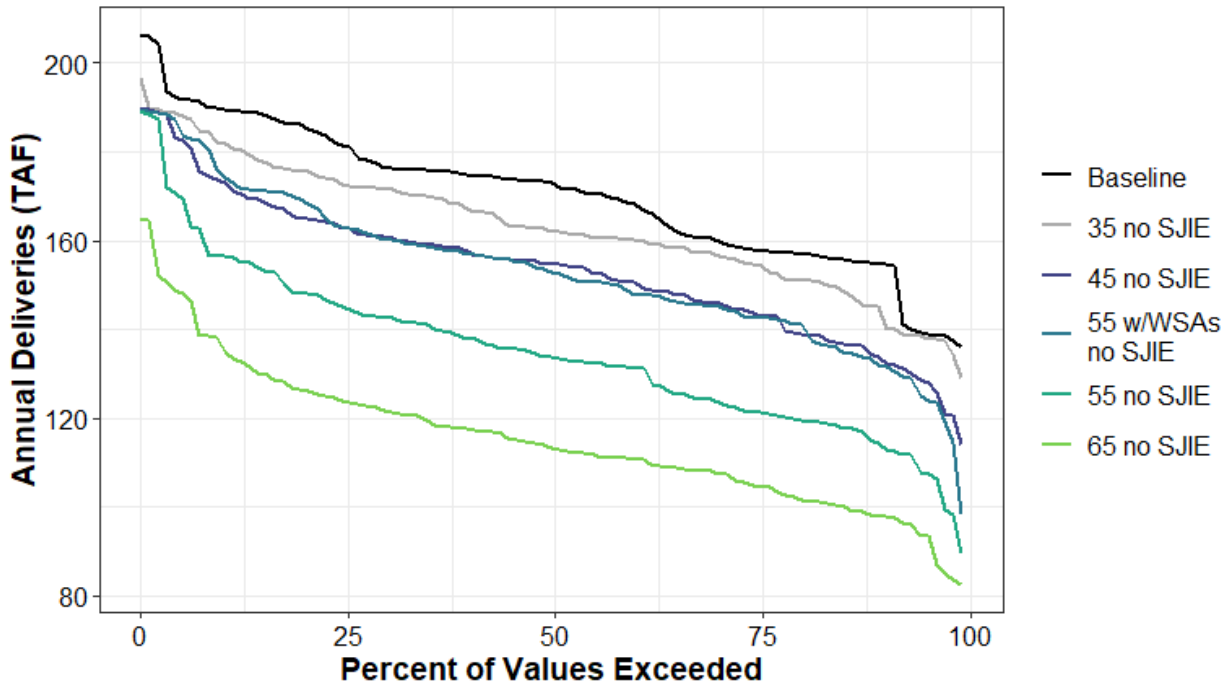

Figure H1a5-192. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-388. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-389. Total Water Supplied to Water Budget Area 24 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.33 Water Budget Area 24 (Urban)

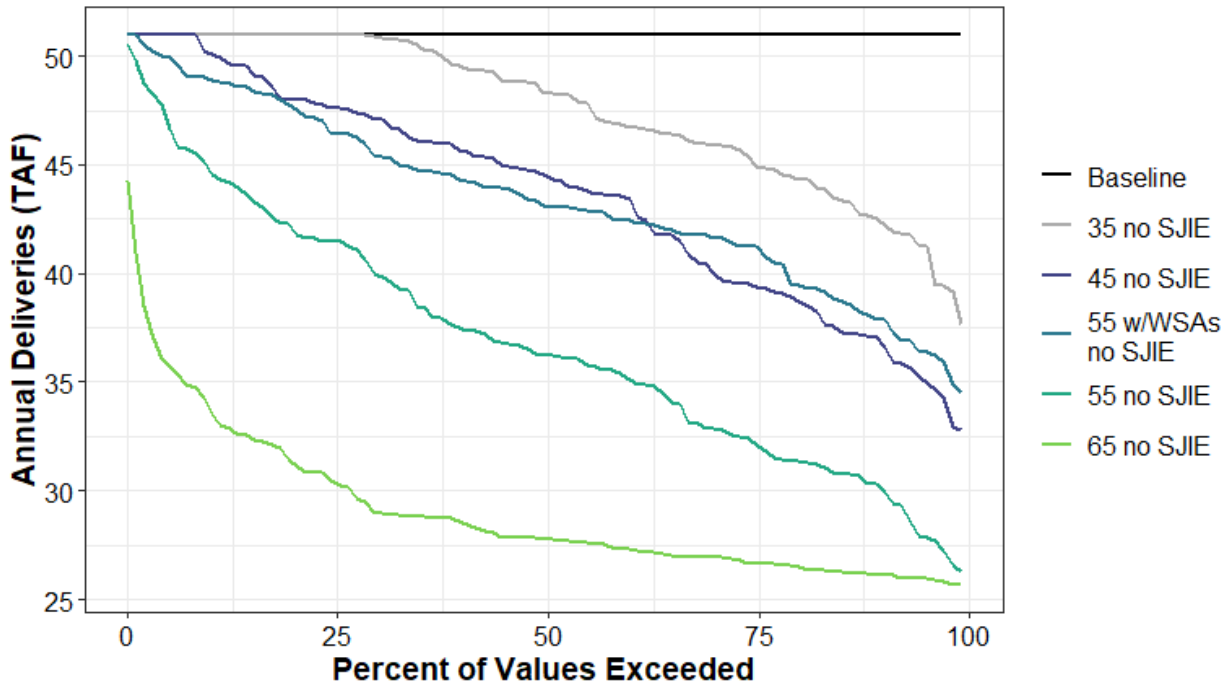

Figure H1a5-193. Total Water Supplied to Water Budget Area 24 (Urban) Annual Percent Exceedance Plot.

Table H1a5-390. Total Water Supplied to Water Budget Area 24 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-391. Total Water Supplied to Water Budget Area 24 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.34Water Budget Area 26 (Agricultural)

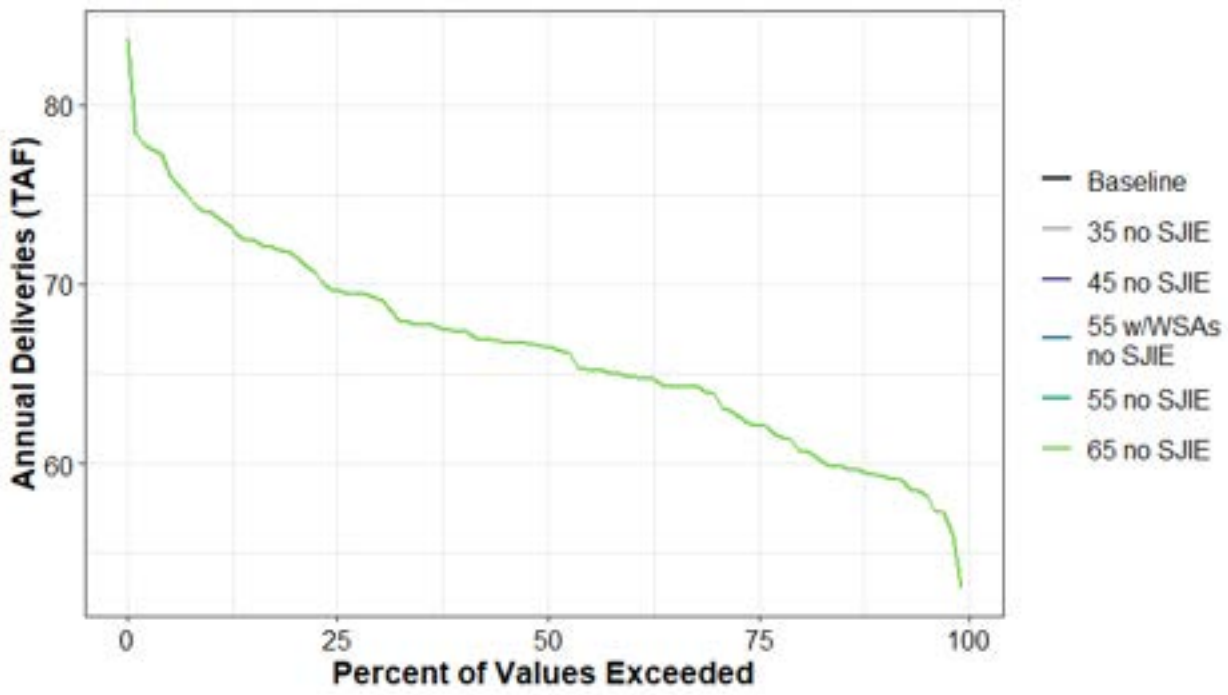

Figure H1a5-194. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-392. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-393. Total Water Supplied to Water Budget Area 26 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.35 Water Budget Area 26 (Urban)

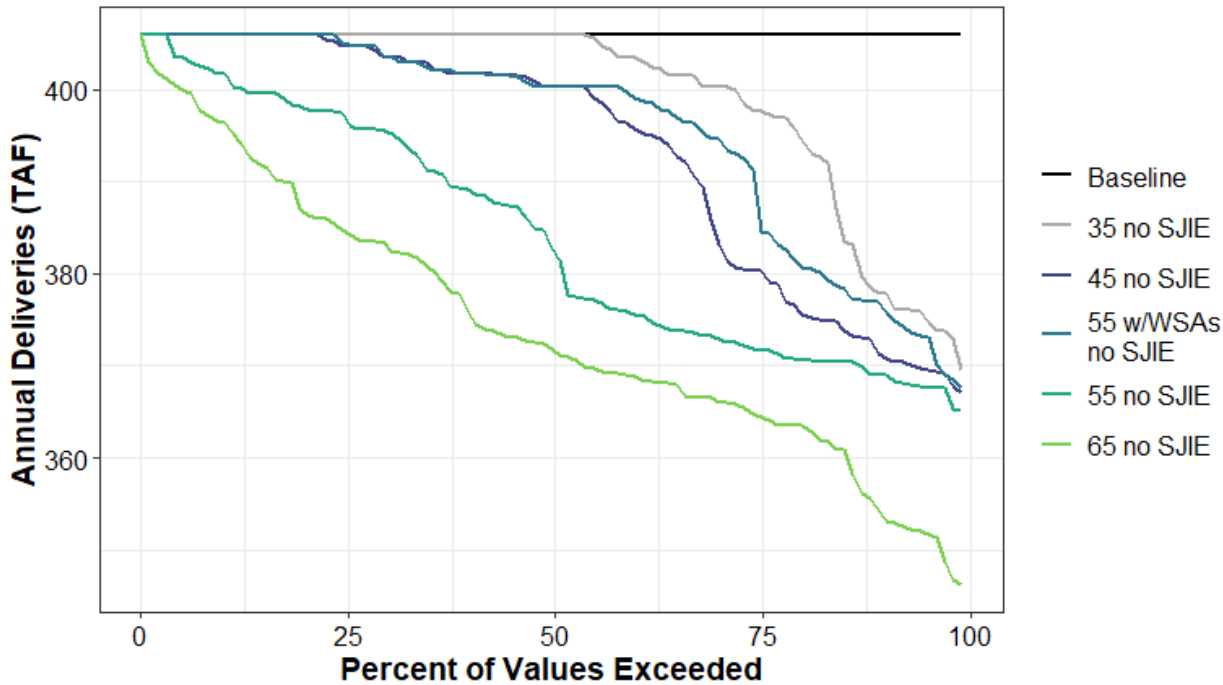

Figure H1a5-195. Total Water Supplied to Water Budget Area 26 (Urban) Annual Percent Exceedance Plot.

Table H1a5-394. Total Water Supplied to Water Budget Area 26 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	406	406	406	406	406	406
10%	406	406	406	406	402	396
20%	406	406	406	406	398	387
30%	406	406	403	403	395	383
40%	406	406	402	402	389	376
50%	406	406	400	400	383	372
60%	406	403	396	399	376	369
70%	406	400	384	395	373	366
80%	406	395	376	381	371	364
90%	406	378	371	377	369	354
100%	406	370	367	368	365	346
Mean	406	400	393	396	384	374

Table H1a5-395. Total Water Supplied to Water Budget Area 26 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	406	379	373	375	371	358
D	406	399	385	390	372	365
BN	406	405	398	401	380	368
AN	406	405	404	403	391	379
W	406	405	404	404	400	392
All	406	400	393	396	384	374

H1a5.6.36 Water 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.

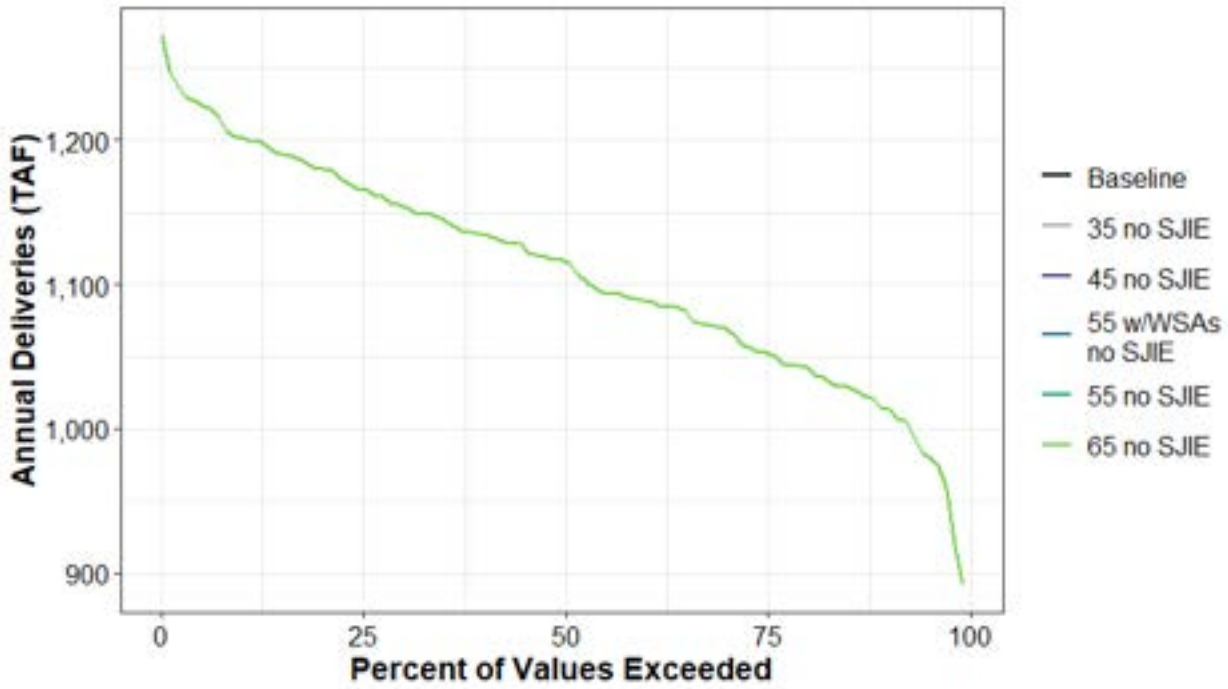

Figure H1a5-196. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Percent Exceedance Plot. Includes agricultural diversions to Delta islands as represented by the Delta Channel Depletions model.

Table H1a5-396. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-397. Surface Water Supplied to Water Budget Area 50 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.37 Delta (Urban)

The values in the figure and tables that follow summarize diversions to the City of Antioch (demand site U_ANTOC_NU).

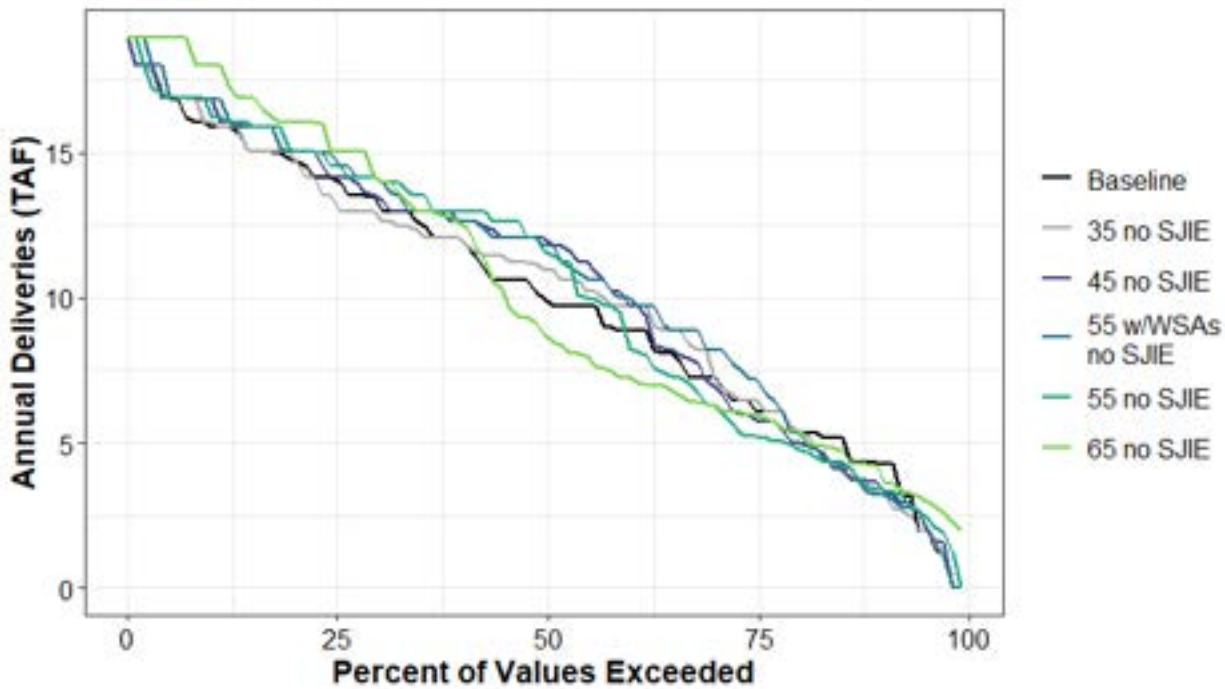

Figure H1a5-197. Surface Water Supplied to Delta (Urban) Annual Percent Exceedance Plot.

Table H1a5-398. Surface Water Supplied to Delta (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	19	19	19	19	19	19
10%	15.9	16.1	16.8	16.8	16.4	18
20%	14.8	14.9	15.1	15.1	15.1	16.1
30%	13.3	12.8	13.5	14.1	14.1	14.1
40%	12	12	12.6	12.6	13	12.5
50%	10	11	12.1	11.8	11.6	8.8
60%	8.9	9.7	9.8	10	8.5	7.2
70%	7.2	7.7	7	8.2	6.3	6.3
80%	5.4	5.5	5	5.4	4.9	5.4
90%	4.3	3.2	3.6	3.2	3.4	4.1
100%	0	0	0	0	0	2
Mean	10.1	10.2	10.4	10.7	10.4	10.3

Table H1a5-399. Surface Water Supplied to Delta (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	3.2	2.6	3.1	3	3.6	4.7
D	7	7.6	7.5	7.6	6.4	6.5
BN	9.7	10.4	10.3	11.2	10.3	7.4
AN	12.2	11.6	12.5	12.9	13	13.1
W	15.3	15.4	15.7	15.9	15.8	16.8
All	10.1	10.2	10.4	10.7	10.4	10.3

H1a5.6.38Water Budget Area 60N (Agricultural)

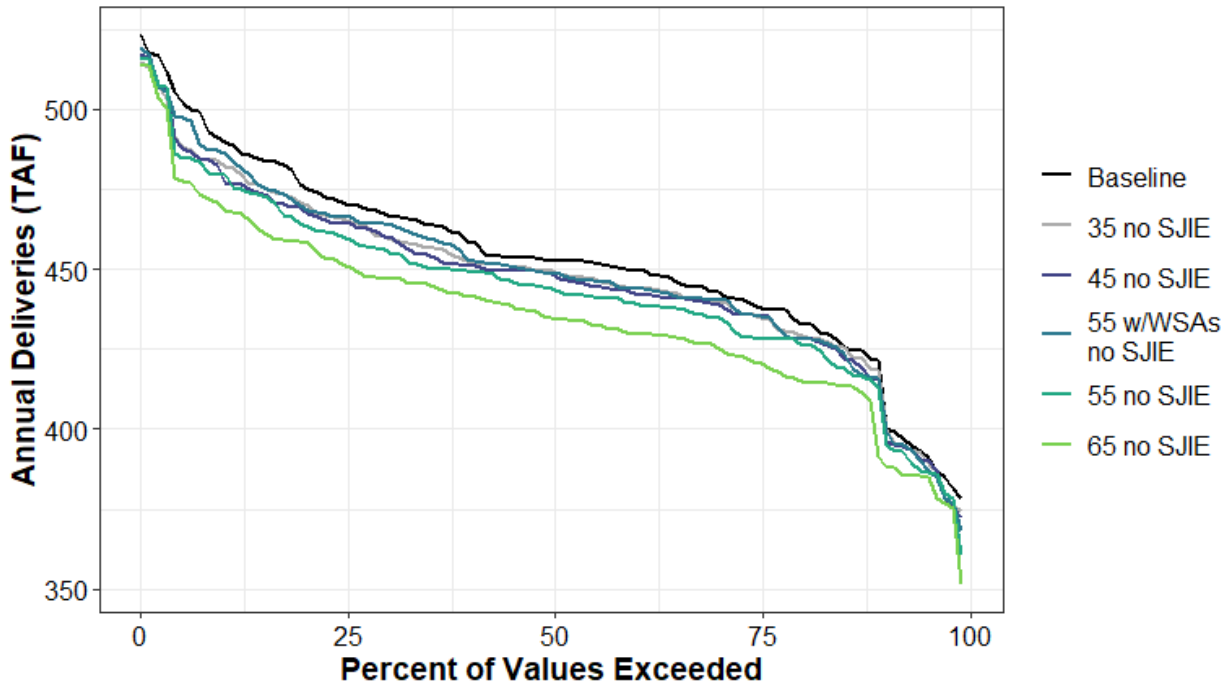

Figure H1a5-198. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-400. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	441
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 H1a5-401. Total Water Supplied to Water Budget Area 60N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.39 Water Budget Area 60N (Urban)

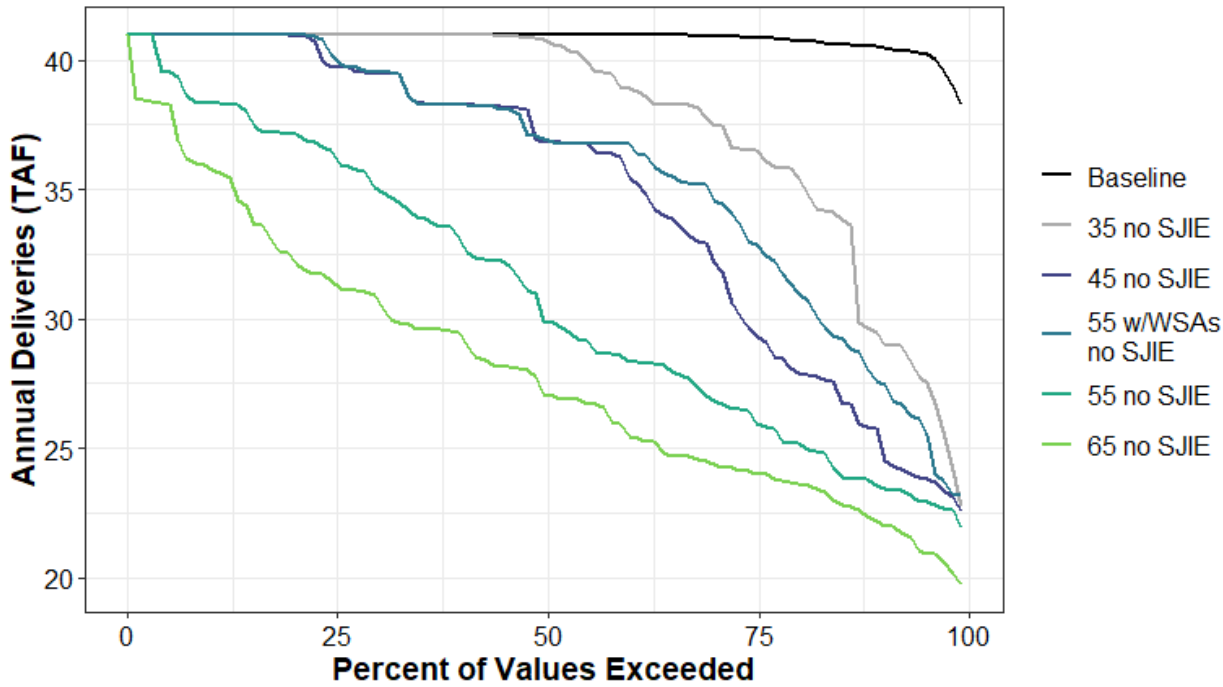

Figure H1a5-199. Total Water Supplied to Water Budget Area 60N (Urban) Annual Percent Exceedance Plot.

Table H1a5-402. Total Water Supplied to Water Budget Area 60N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	40	35	31
40%	41	41	38	38	33	29
50%	41	41	37	37	30	27
60%	41	39	36	37	28	26
70%	41	38	32	35	27	24
80%	41	36	28	31	25	24
90%	41	29	25	28	24	22
100%	38	23	23	23	22	20
Mean	41	38	35	36	31	28

Table H1a5-403. Total Water Supplied to Water Budget Area 60N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	41	29	26	28	24	23
D	41	38	32	34	27	25
BN	41	40	37	38	30	27
AN	41	40	39	39	34	29
W	41	40	40	39	38	34
All	41	38	35	36	31	28

H1a5.6.40Water Budget Area 60S (Agricultural)

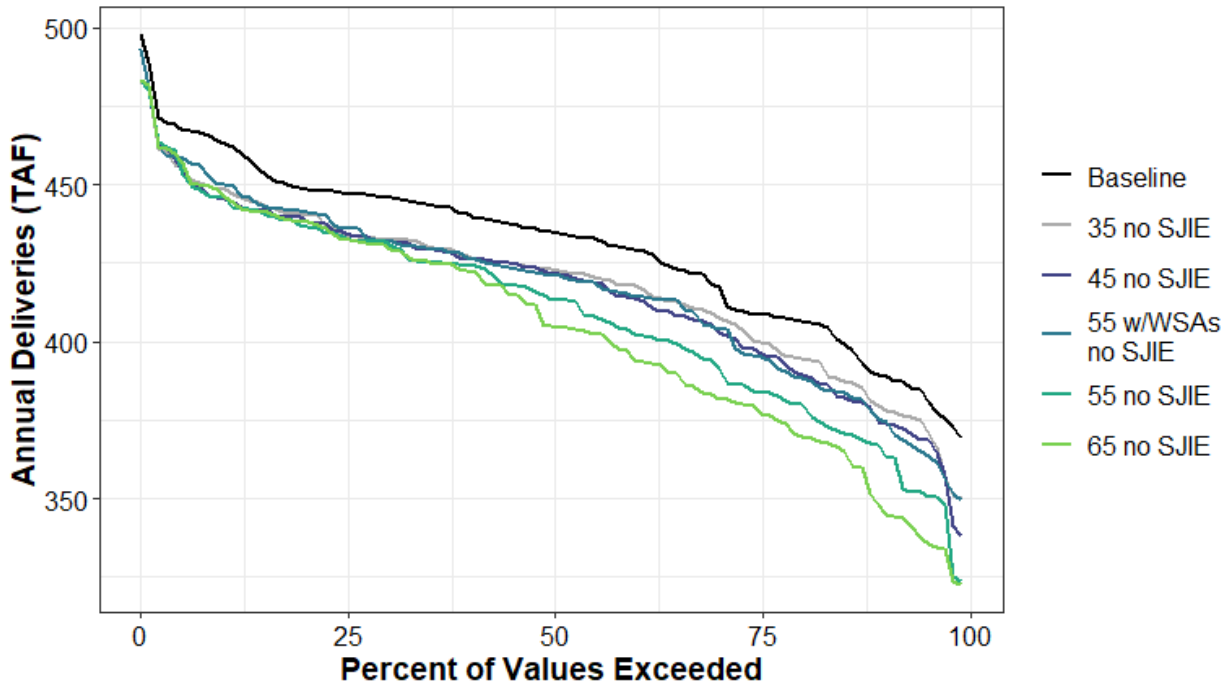

Figure H1a5-200. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-404. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	418	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 H1a5-405. Total Water Supplied to Water Budget Area 60S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	445	439	439	439	439	440
D	442	429	428	433	428	427
BN	437	418	416	417	411	410
AN	425	410	405	408	394	391
W	411	403	400	396	384	370
All	430	418	416	417	409	404

H1a5.6.41 Water Budget Area 60S (Urban)

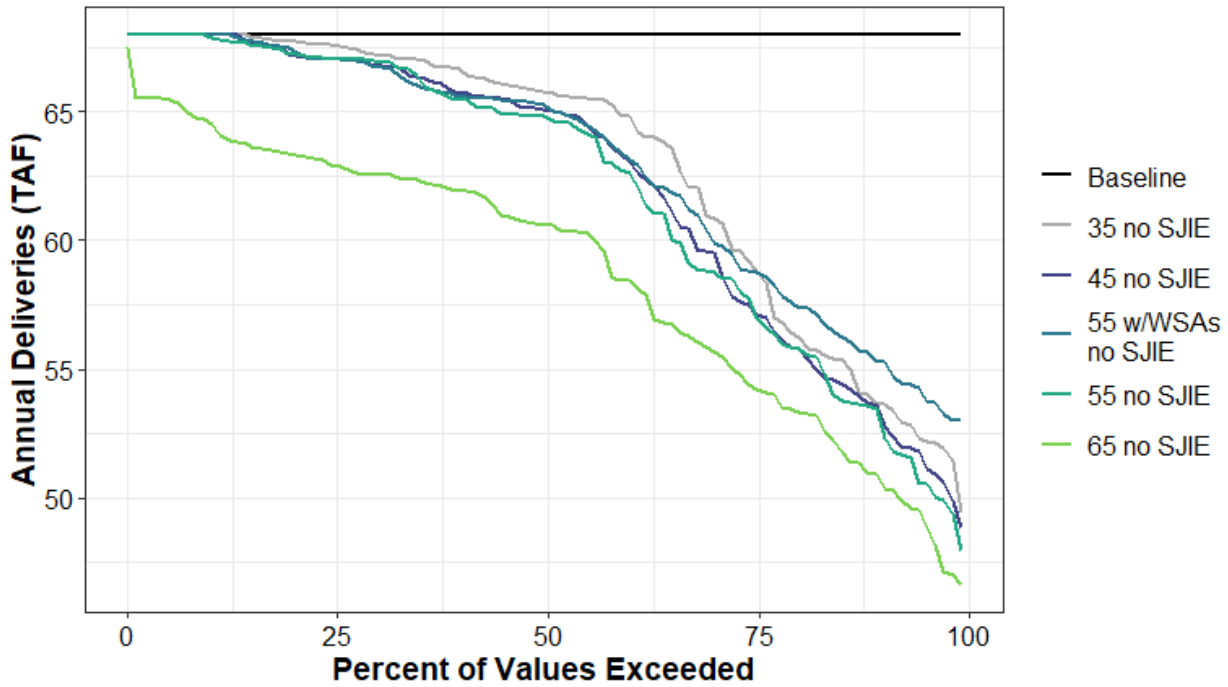

Figure H1a5-201. Total Water Supplied to Water Budget Area 60S (Urban) Annual Percent Exceedance Plot.

Table H1a5-406. Total Water Supplied to Water Budget Area 60S (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-407. Total Water Supplied to Water Budget Area 60S (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.42 Water Budget Area 61N (Agricultural)

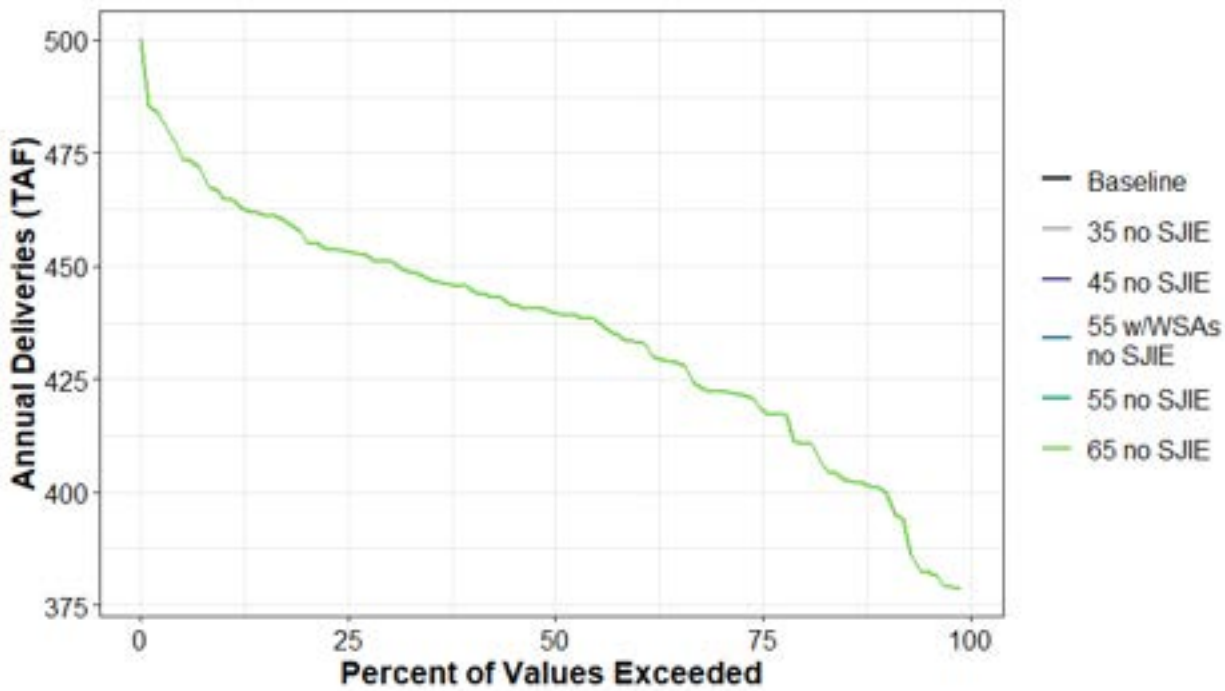

Figure H1a5-202. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-408. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-409. Total Water Supplied to Water Budget Area 61N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.43 Upper Watershed and Foothill (Agricultural)

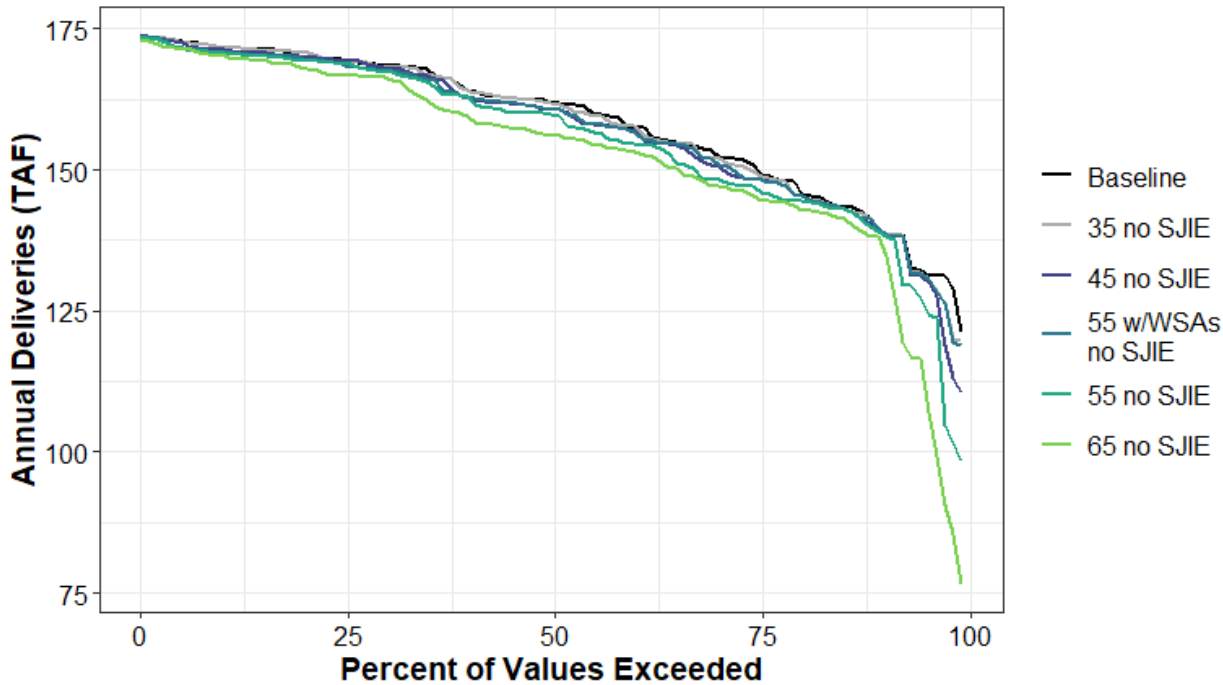

Figure H1a5-203. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-410. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	174	174	174	174	174	173
10%	172	172	171	171	171	170
20%	171	171	170	170	169	168
30%	169	168	168	168	167	166
40%	164	164	163	163	163	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 H1a5-411. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.44 Upper Watershed and Foothill (Urban)

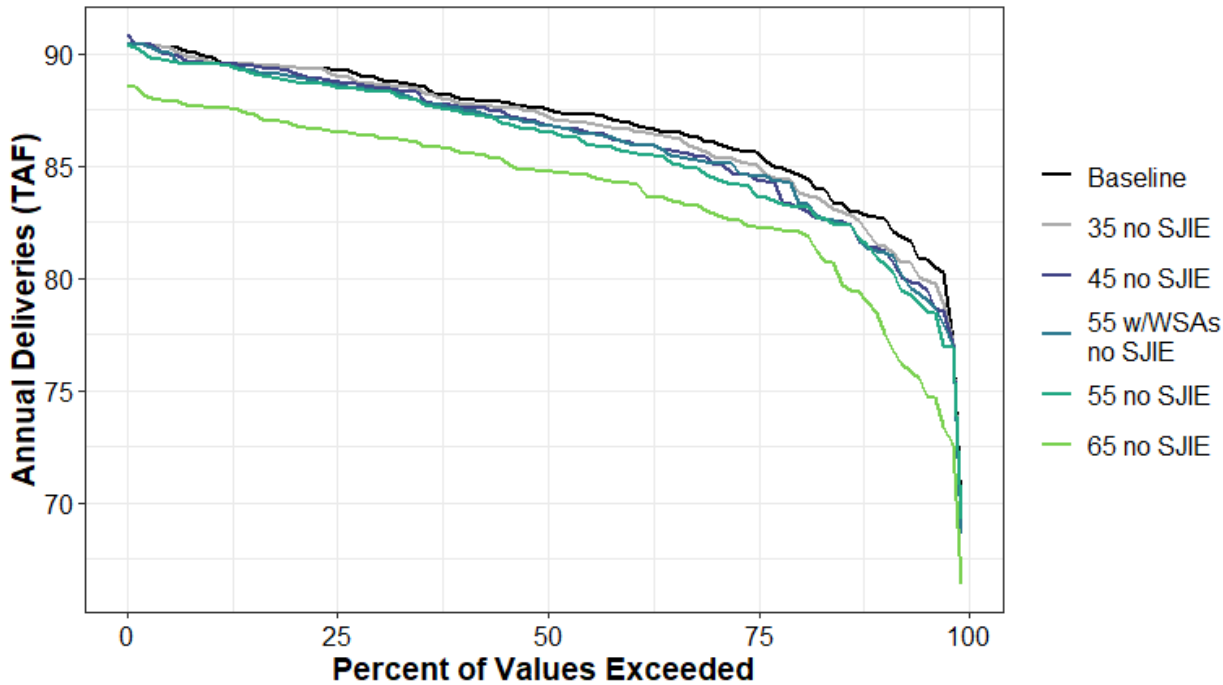

Figure H1a5-204. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Percent Exceedance Plot.

Table H1a5-412. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	87	86
50%	88	87	87	87	87	85
60%	87	87	86	86	86	84
70%	86	86	85	85	85	83
80%	85	84	83	84	83	82
90%	83	81	81	81	81	78
100%	70	69	69	69	69	66
Mean	87	86	86	86	86	84

Table H1a5-413. Surface Water Supplied to Upper Watershed and Foothill (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.45 San Francisco Bay Area (Agricultural)

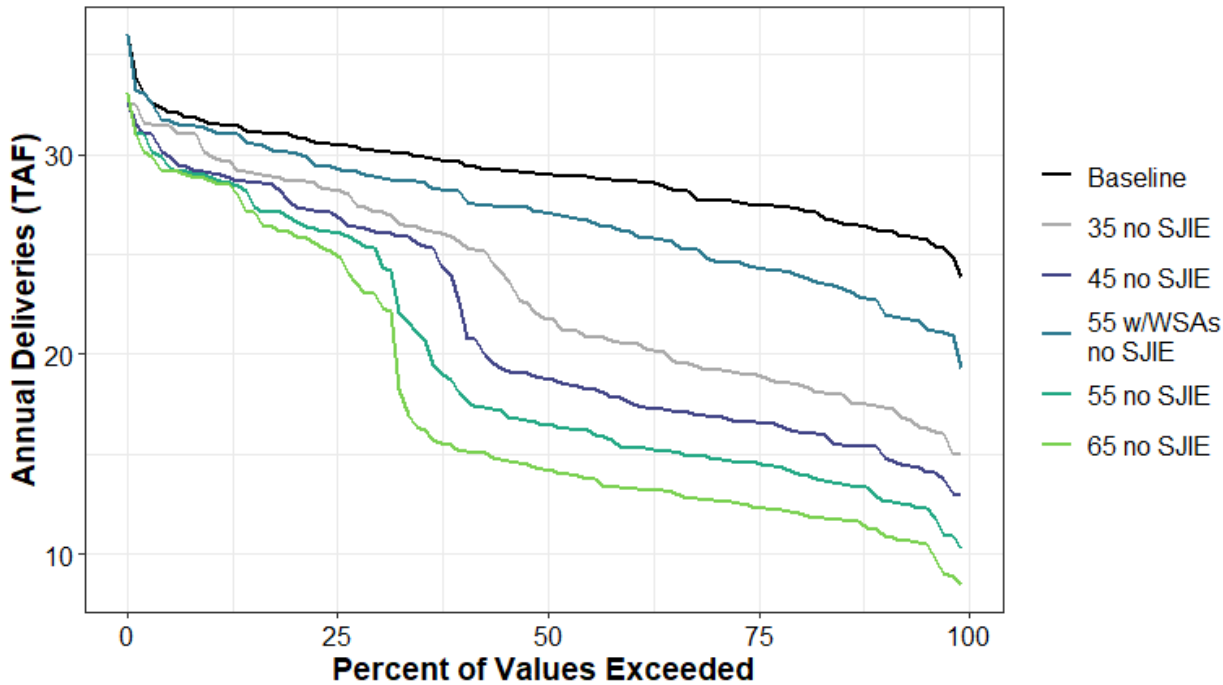

Figure H1a5-205. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-414. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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 H1a5-415. Total Water Supplied to San Francisco Bay Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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

H1a5.6.46San Francisco Bay Area (Urban)

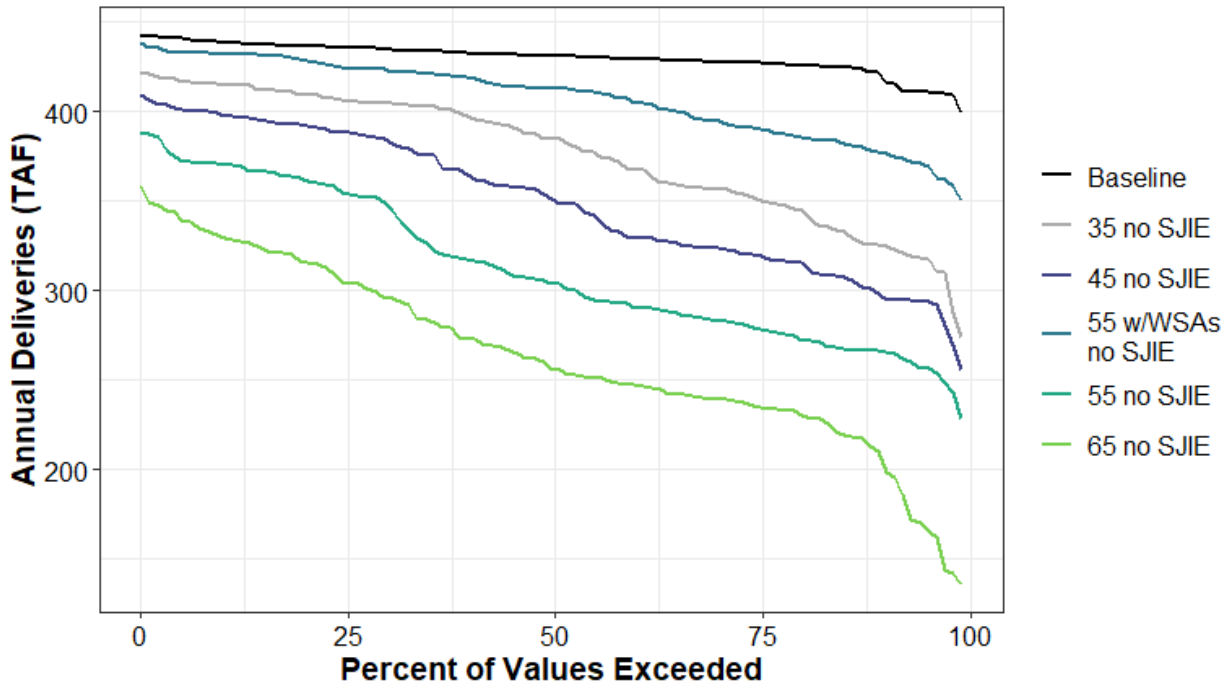

Figure H1a5-206. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Percent Exceedance Plot.

Table H1a5-416. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	443	422	409	439	388	359
10%	439	415	398	432	371	330
20%	436	410	392	429	362	316
30%	435	405	384	423	347	296
40%	433	397	364	419	317	273
50%	431	385	351	413	304	256
60%	429	368	330	405	291	247
70%	428	357	324	395	283	239
80%	426	345	316	386	273	232
90%	421	325	298	377	266	208
100%	400	273	256	350	229	136
Mean	430	376	350	408	312	264

Table H1a5-417. Surface Water Supplied to San Francisco Bay Area (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	420	321	298	389	272	219
D	432	357	323	391	282	239
BN	432	377	344	406	295	240
AN	432	398	369	419	325	269
W	432	410	393	426	362	319
All	430	376	350	408	312	264

H1a5.6.47Total CVP Deliveries

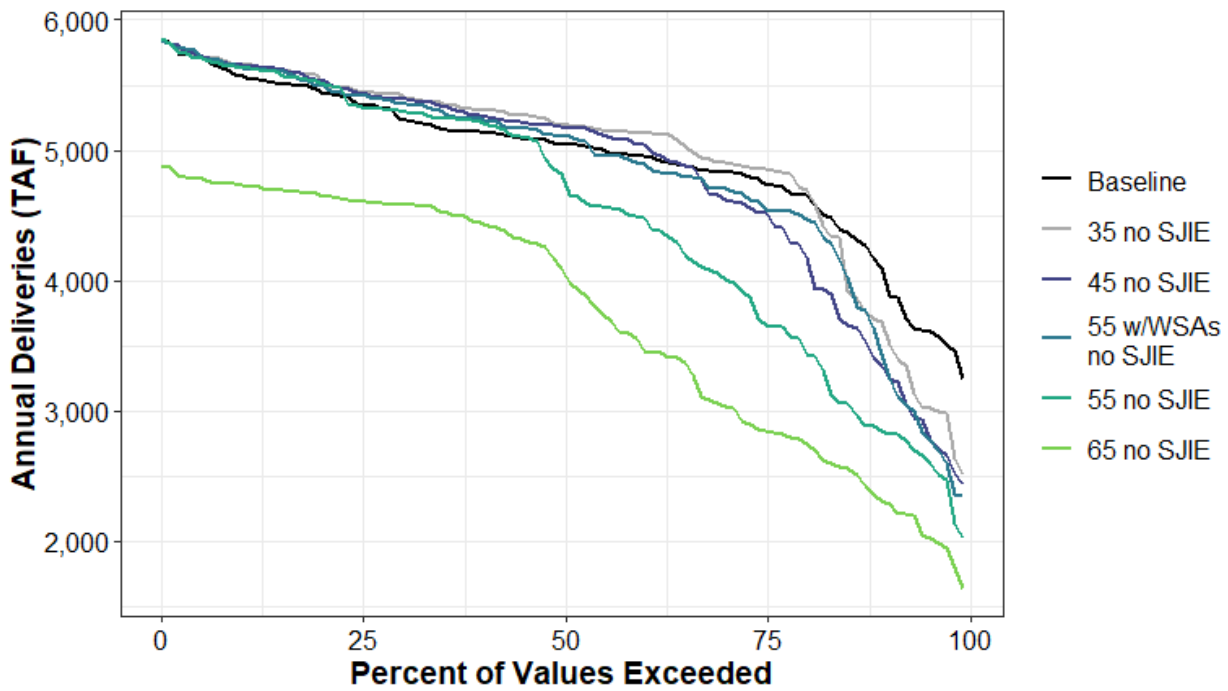

Figure H1a5-207. Surface Water Supplied to Total CVP Deliveries Annual Percent Exceedance Plot.

Table H1a5-418. Surface Water Supplied to Total CVP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	5,839	5,860	5,859	5,846	5,858	4,877
10%	5,569	5,660	5,661	5,640	5,637	4,740
20%	5,448	5,532	5,534	5,498	5,517	4,659
30%	5,237	5,417	5,394	5,361	5,302	4,584
40%	5,140	5,305	5,272	5,239	5,211	4,438
50%	5,044	5,195	5,183	5,113	4,821	4,096
60%	4,956	5,136	5,043	4,895	4,484	3,482
70%	4,830	4,908	4,633	4,709	4,030	3,044
80%	4,657	4,709	4,235	4,497	3,508	2,770
90%	4,056	3,645	3,330	3,392	2,846	2,307
100%	3,247	2,514	2,439	2,343	2,027	1,636
Mean	4,950	4,965	4,836	4,841	4,521	3,745

Table H1a5-419. Surface Water Supplied to Total CVP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	4,035	3,461	3,206	3,238	2,810	2,342
D	4,821	4,932	4,678	4,668	4,030	3,132
BN	4,958	5,122	5,010	5,031	4,609	3,752
AN	5,062	5,287	5,220	5,231	5,086	4,451
W	5,482	5,564	5,557	5,546	5,512	4,656
All	4,950	4,965	4,836	4,841	4,521	3,745

H1a5.6.48Total CVP North of Delta

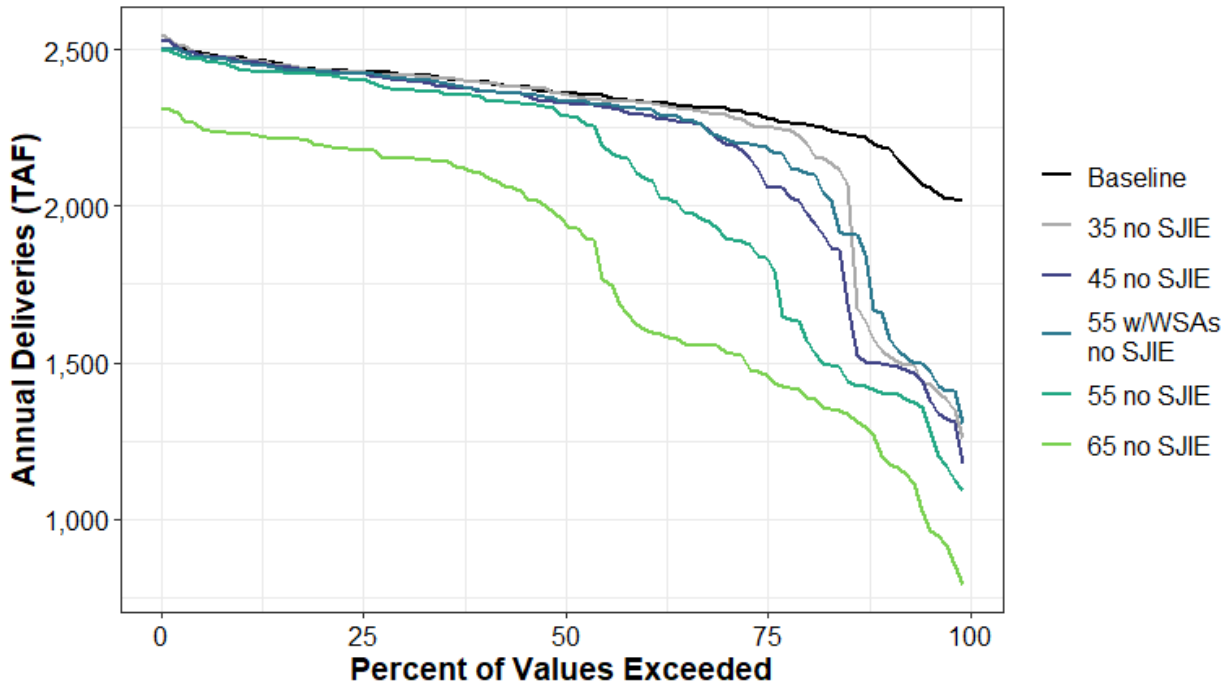

Figure H1a5-208. Surface Water Supplied to Total CVP North of Delta Annual Percent Exceedance Plot.

Table H1a5-420. Surface Water Supplied to Total CVP North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	2,534	2,549	2,534	2,507	2,497	2,311
10%	2,473	2,468	2,463	2,457	2,436	2,230
20%	2,438	2,433	2,429	2,430	2,420	2,195
30%	2,423	2,418	2,402	2,407	2,371	2,152
40%	2,398	2,396	2,368	2,372	2,345	2,104
50%	2,363	2,361	2,331	2,335	2,288	1,960
60%	2,333	2,331	2,292	2,311	2,094	1,610
70%	2,313	2,292	2,204	2,219	1,910	1,543
80%	2,260	2,214	2,001	2,113	1,609	1,405
90%	2,187	1,533	1,495	1,641	1,403	1,198
100%	2,019	1,258	1,174	1,303	1,094	791
Mean	2,344	2,242	2,188	2,224	2,072	1,799

Table H1a5-421. Surface Water Supplied to Total CVP North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	2,176	1,580	1,496	1,622	1,344	1,175
D	2,343	2,308	2,182	2,222	1,895	1,514
BN	2,390	2,395	2,340	2,379	2,202	1,825
AN	2,391	2,402	2,397	2,395	2,382	2,149
W	2,385	2,384	2,383	2,380	2,384	2,186
All	2,344	2,242	2,188	2,224	2,072	1,799

H1a5.6.49CVP North of Delta Water Service (Agricultural)

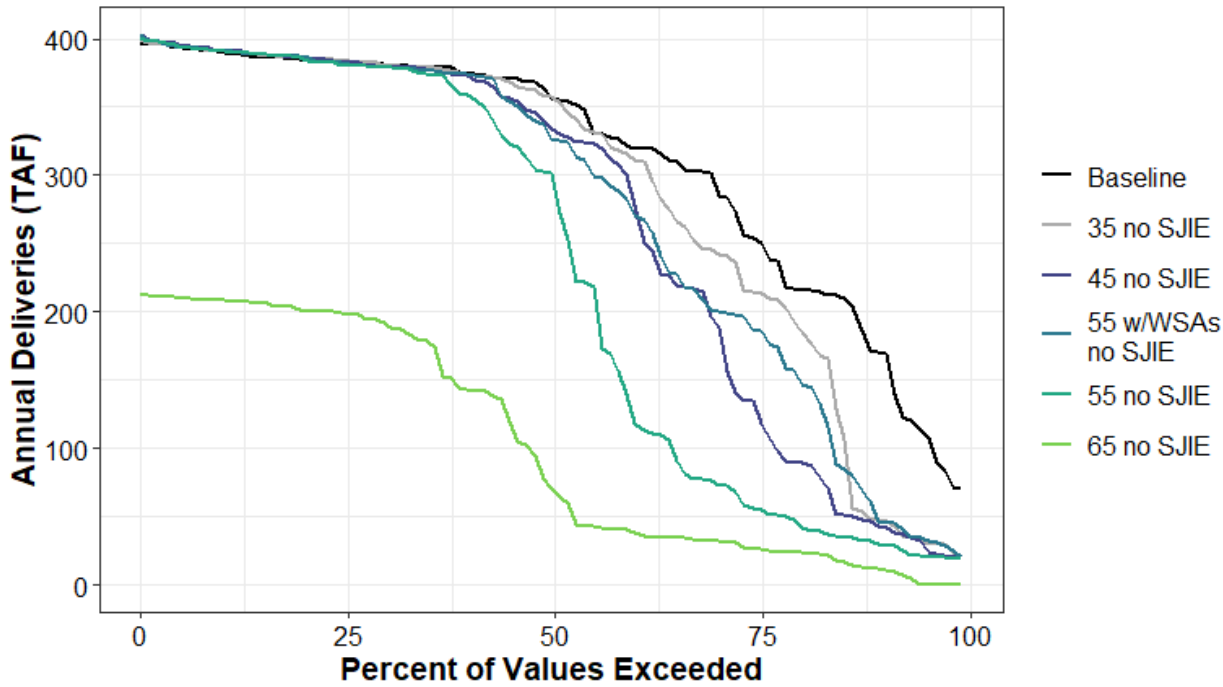

Figure H1a5-209. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-422. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	397	399	403	403	400	213
10%	390	391	391	391	391	208
20%	384	386	385	387	384	201
30%	382	381	380	379	379	190
40%	374	374	372	374	358	143
50%	356	358	333	325	302	70
60%	320	312	282	273	123	39
70%	292	244	192	201	74	32
80%	216	190	90	153	46	24
90%	171	47	43	47	30	12
100%	71	20	20	21	19	0
Mean	312	288	266	274	228	103

Table H1a5-423. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	167	66	47	55	32	13
D	275	237	178	198	92	30
BN	327	327	296	312	213	69
AN	373	375	376	374	369	171
W	382	383	384	384	385	198
All	312	288	266	274	228	103

H1a5.6.50CVP North of Delta Water Service (M&I)

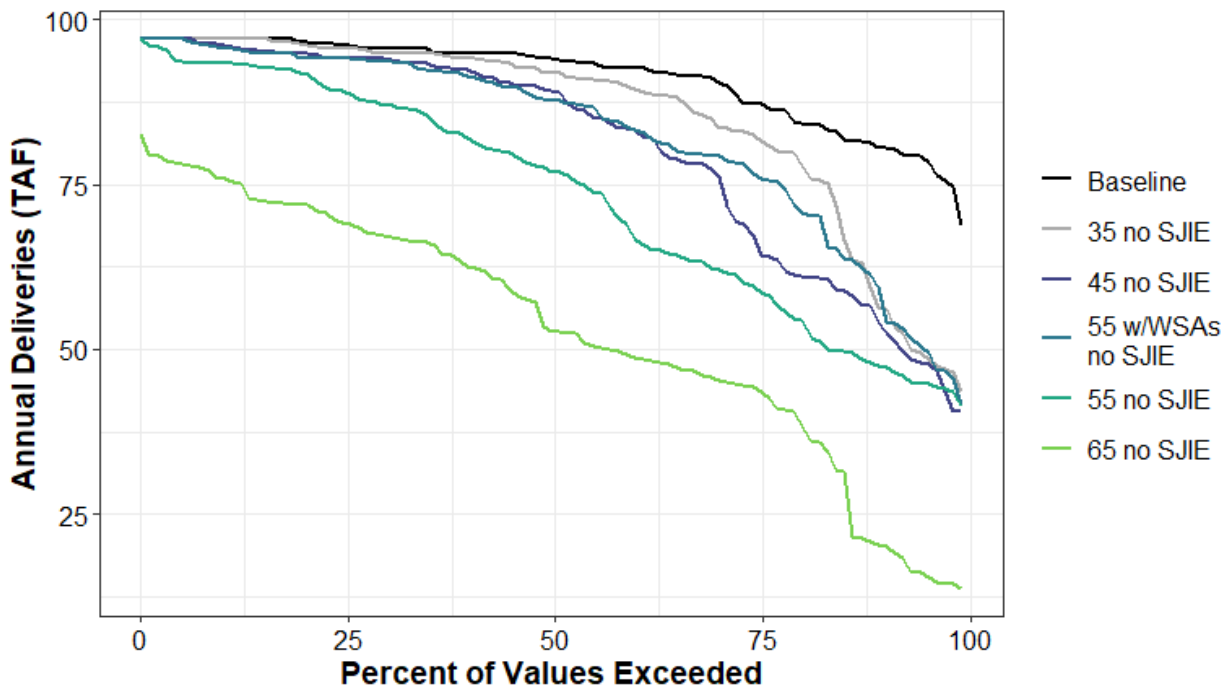

Figure H1a5-210. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a5-424. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	97	97	97	97	97	83
10%	97	97	96	96	93	76
20%	97	96	95	94	92	72
30%	96	95	94	94	87	67
40%	95	94	92	91	82	63
50%	94	92	89	88	77	53
60%	93	90	83	83	67	49
70%	91	84	77	79	62	46
80%	84	79	61	71	55	40
90%	81	56	54	58	47	20
100%	69	43	41	41	41	14
Mean	91	86	81	83	73	53

Table H1a5-425. Surface Water Supplied to CVP North of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	83	57	53	55	50	26
D	91	86	74	79	61	43
BN	91	90	85	88	72	50
AN	93	93	91	91	84	64
W	95	95	94	93	91	73
All	91	86	81	83	73	53

H1a5.6.51 CVP Settlement (Agricultural)

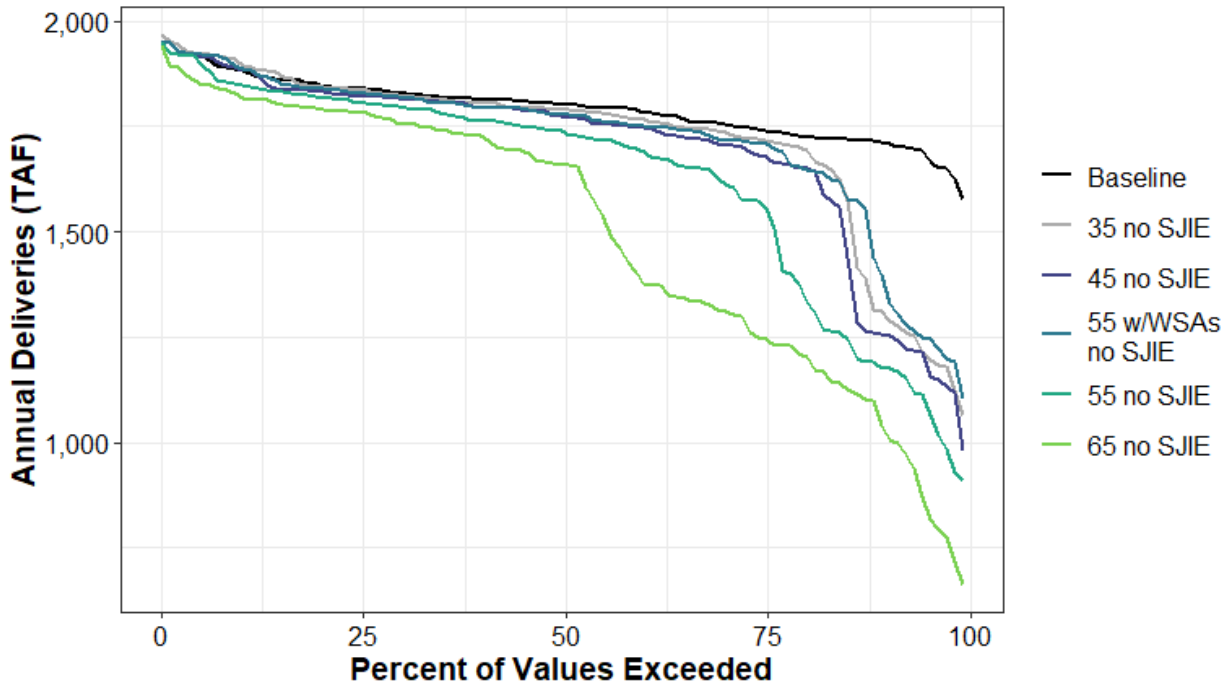

Figure H1a5-211. Surface Water Supplied to CVP Settlement (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-426. Surface Water Supplied to CVP Settlement (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,950	1,969	1,951	1,952	1,950	1,941
10%	1,883	1,897	1,885	1,887	1,849	1,820
20%	1,847	1,843	1,833	1,839	1,819	1,792
30%	1,828	1,822	1,817	1,819	1,795	1,757
40%	1,814	1,806	1,794	1,793	1,763	1,725
50%	1,802	1,789	1,774	1,778	1,738	1,659
60%	1,785	1,767	1,746	1,751	1,692	1,380
70%	1,756	1,737	1,707	1,718	1,618	1,313
80%	1,726	1,698	1,651	1,651	1,360	1,208
90%	1,711	1,307	1,255	1,383	1,176	1,033
100%	1,576	1,062	978	1,104	908	662
Mean	1,794	1,722	1,696	1,721	1,626	1,499

Table H1a5-427. Surface Water Supplied to CVP Settlement (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,784	1,315	1,254	1,371	1,122	1,000
D	1,830	1,837	1,784	1,799	1,596	1,296
BN	1,824	1,830	1,812	1,832	1,770	1,560
AN	1,778	1,788	1,785	1,785	1,785	1,772
W	1,759	1,758	1,758	1,756	1,761	1,768
All	1,794	1,722	1,696	1,721	1,626	1,499

H1a5.6.52 CVP Settlement (M&I)

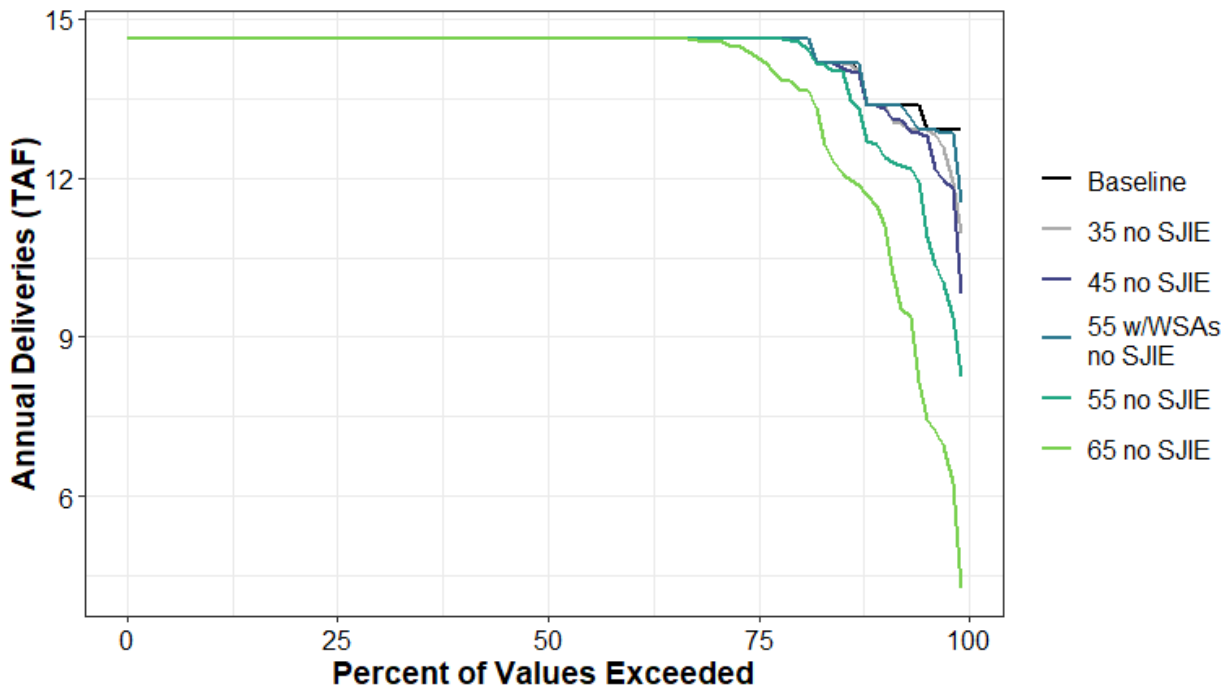

Figure H1a5-212. Surface Water Supplied to CVP Settlement (M&I) Annual Percent Exceedance Plot.

Table H1a5-428. Surface Water Supplied to CVP Settlement (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	14.6
80%	14.6	14.6	14.6	14.6	14.6	13.8
90%	13.4	13.4	13.4	13.4	12.6	11.4
100%	12.9	10.9	9.8	11.5	8.2	4.3
Mean	14.4	14.4	14.3	14.4	14.2	13.7

Table H1a5-429. Surface Water Supplied to CVP Settlement (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	13.6	13.3	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	14.6	14.6	14.5	13.9
AN	14.5	14.5	14.5	14.6	14.5	14.5
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

H1a5.6.53 CVP North of Delta (Refuge)

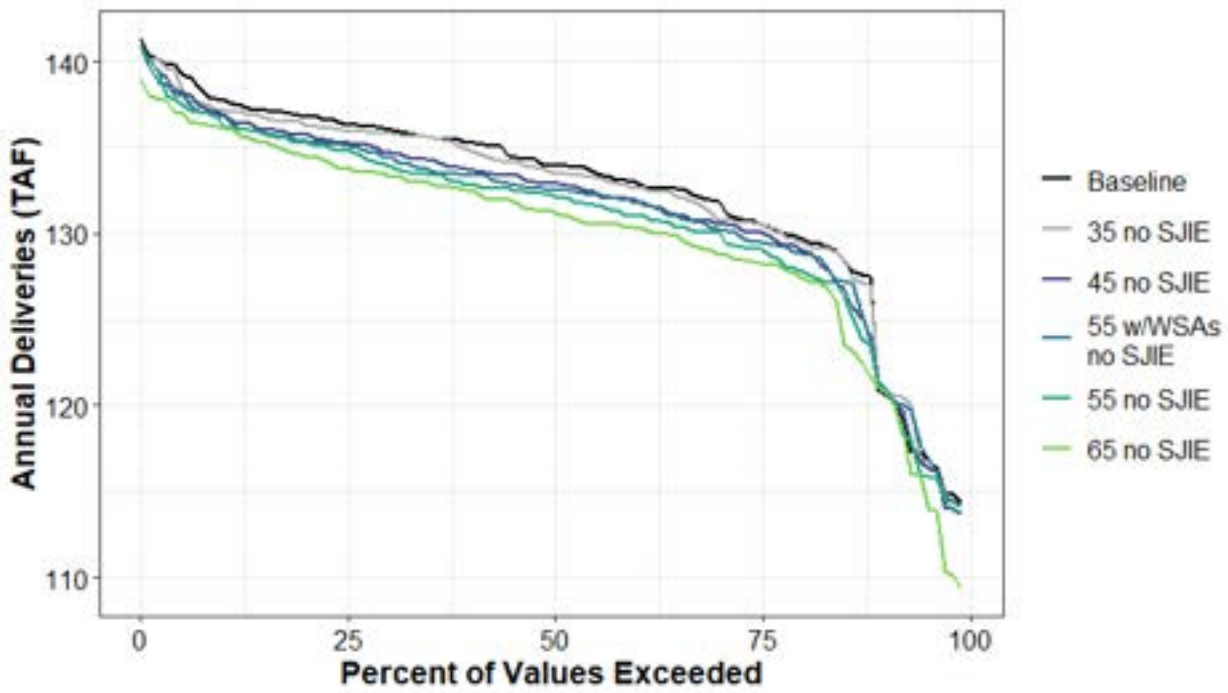

Figure H1a5-213. Surface Water Supplied to CVP North of Delta (Refuge) Annual Percent Exceedance Plot.

Table H1a5-430. Surface Water Supplied to CVP North of Delta (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	141	141	141	141	141	139
10%	138	137	137	137	136	136
20%	137	136	136	135	135	134
30%	136	136	135	134	134	133
40%	135	135	134	133	133	132
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	128
90%	121	121	121	121	121	121
100%	114	114	114	114	114	109
Mean	133	132	131	131	131	130

Table H1a5-431. Surface Water Supplied to CVP North of Delta (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	128	128	127	128	127	125
D	133	133	132	132	132	131
BN	133	133	133	133	132	132
AN	132	132	131	130	129	128
W	134	134	133	132	132	132
All	133	132	131	131	131	130

H1a5.6.54Total CVP South of Delta

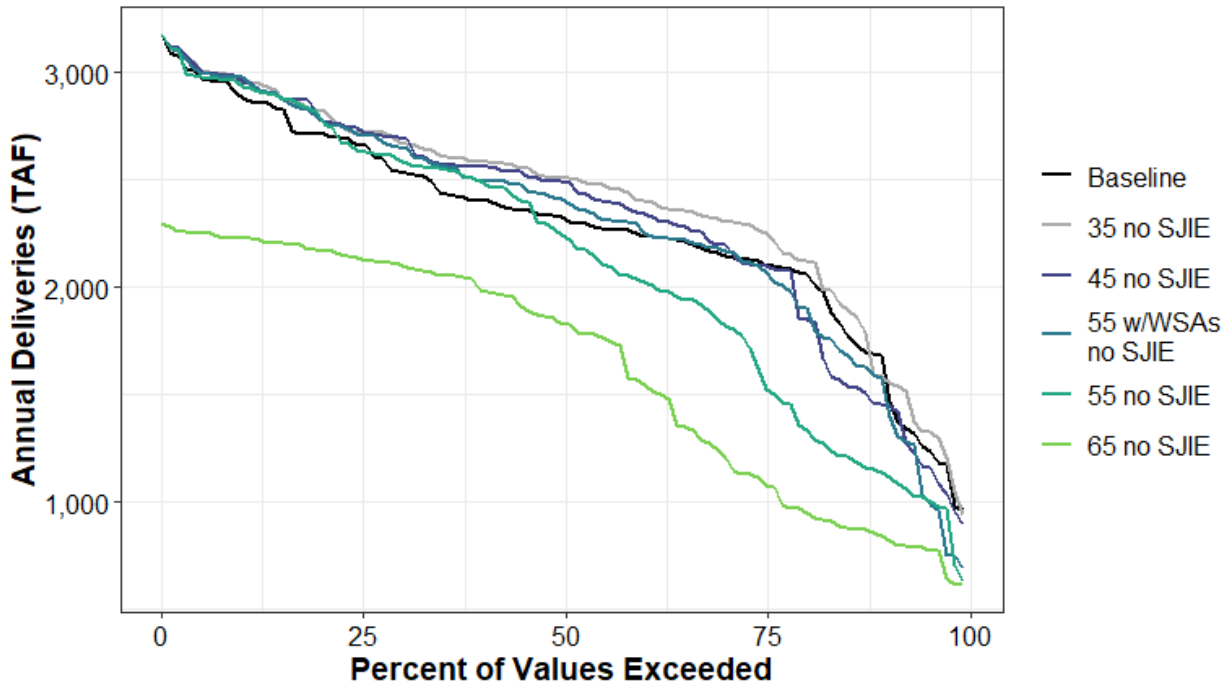

Figure H1a5-214. Surface Water Supplied to Total CVP South of Delta Annual Percent Exceedance Plot.

Table H1a5-432. Surface Water Supplied to Total CVP South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	3,179	3,179	3,179	3,179	3,178	2,296
10%	2,885	2,957	2,963	2,977	2,944	2,228
20%	2,712	2,824	2,790	2,779	2,784	2,170
30%	2,537	2,673	2,696	2,653	2,585	2,105
40%	2,403	2,588	2,562	2,497	2,492	1,987
50%	2,328	2,510	2,493	2,411	2,241	1,831
60%	2,240	2,400	2,347	2,258	2,027	1,550
70%	2,150	2,312	2,199	2,171	1,832	1,221
80%	2,067	2,120	1,854	1,903	1,348	961
90%	1,638	1,578	1,452	1,538	1,134	838
100%	963	941	898	693	628	613
Mean	2,294	2,410	2,333	2,301	2,133	1,638

Table H1a5-433. Surface Water Supplied to Total CVP South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,568	1,590	1,417	1,330	1,175	905
D	2,170	2,311	2,179	2,128	1,817	1,307
BN	2,250	2,410	2,352	2,327	2,086	1,618
AN	2,346	2,560	2,495	2,511	2,373	1,978
W	2,778	2,862	2,856	2,847	2,809	2,149
All	2,294	2,410	2,333	2,301	2,133	1,638

H1a5.6.55 CVP South of Delta Water Service (Agricultural)

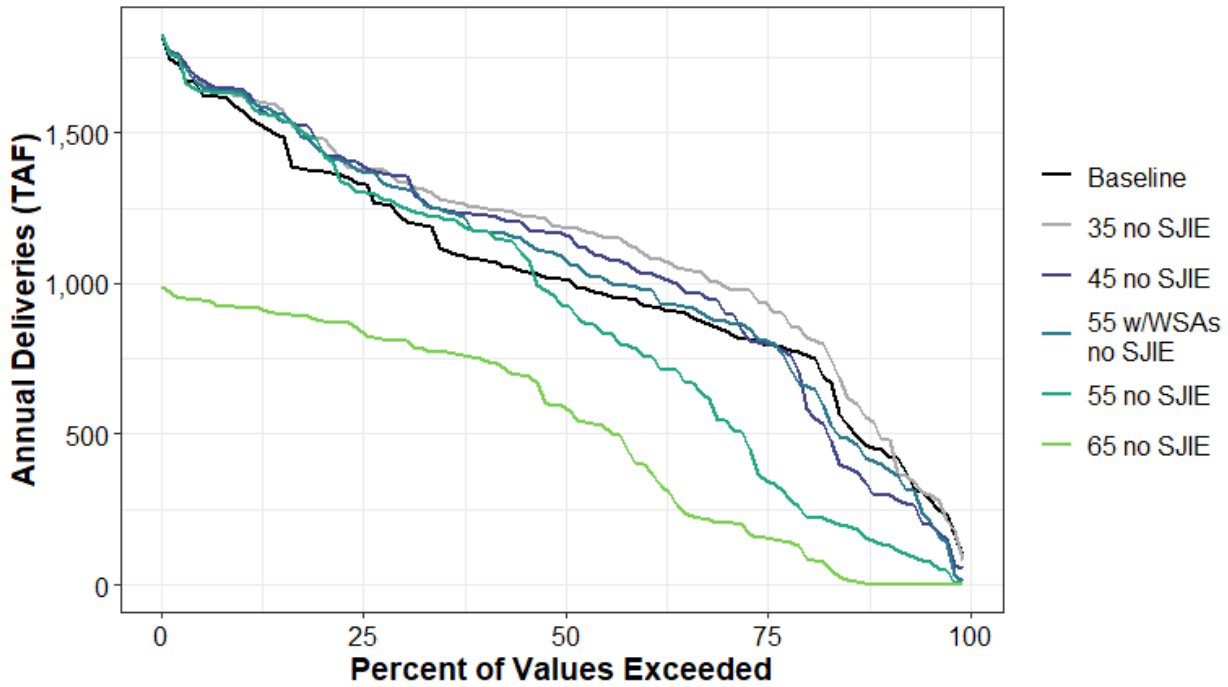

Figure H1a5-215. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-434. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,827	1,827	1,827	1,827	1,827	987
10%	1,576	1,618	1,644	1,635	1,628	919
20%	1,372	1,480	1,448	1,440	1,442	876
30%	1,217	1,334	1,357	1,314	1,252	810
40%	1,077	1,252	1,227	1,173	1,171	749
50%	1,015	1,188	1,165	1,093	931	594
60%	930	1,100	1,034	981	763	398
70%	847	995	915	873	546	206
80%	768	840	658	664	245	111
90%	444	480	298	394	134	0
100%	91	83	53	11	8	0
Mean	1,017	1,126	1,061	1,047	900	513

Table H1a5-435. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	497	500	374	362	239	101
D	873	1,009	891	861	598	272
BN	937	1,091	1,042	1,015	800	465
AN	1,036	1,240	1,182	1,195	1,066	723
W	1,443	1,521	1,517	1,510	1,472	854
All	1,017	1,126	1,061	1,047	900	513

H1a5.6.56CVP South of Delta Water Service (M&I)

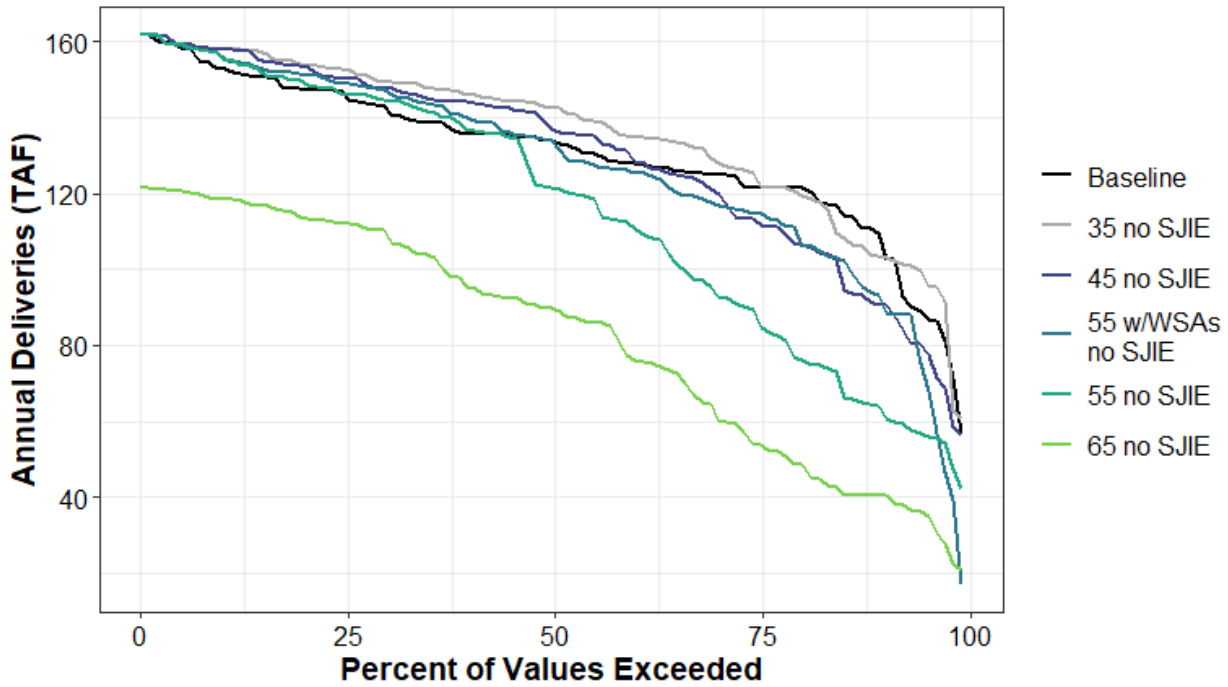

Figure H1a5-216. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a5-436. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	162	162	162	162	162	122
10%	153	158	158	156	156	119
20%	147	154	154	151	149	114
30%	142	150	148	147	145	109
40%	136	146	144	140	137	95
50%	134	143	137	134	122	90
60%	128	135	129	126	111	76
70%	125	128	120	117	94	62
80%	122	120	107	109	76	49
90%	108	104	91	92	63	40
100%	57	60	56	17	42	21
Mean	131	136	130	127	116	83

Table H1a5-437. Surface Water Supplied to CVP South of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	101	105	91	82	73	51
D	127	129	121	116	93	60
BN	130	136	131	131	116	80
AN	132	142	138	139	131	97
W	149	155	153	152	151	113
All	131	136	130	127	116	83

H1a5.6.57CVP SOD Exchange

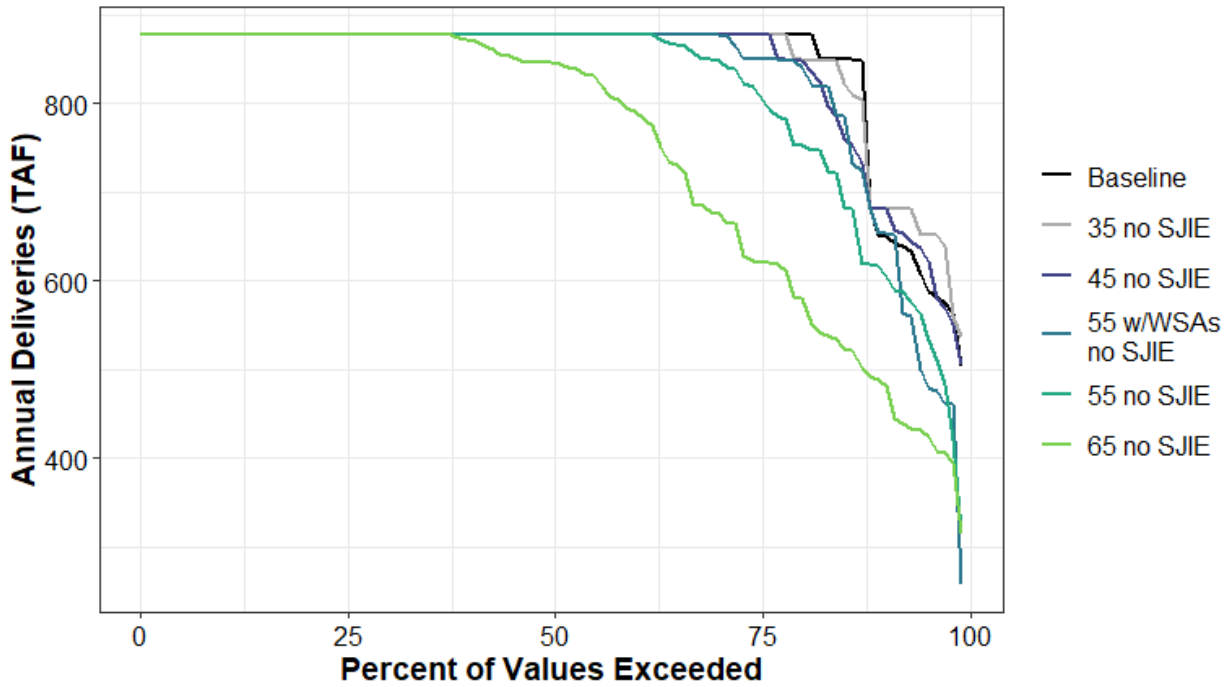

Figure H1a5-217. Surface Water Supplied to CVP SOD Exchange Annual Percent Exceedance Plot.

Table H1a5-438. Surface Water Supplied to CVP SOD Exchange Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	872
50%	878	878	878	878	878	846
60%	878	878	878	878	878	792
70%	878	878	878	878	849	676
80%	878	850	848	845	753	582
90%	651	682	682	654	615	487
100%	504	537	505	257	315	314
Mean	844	847	840	827	815	749

Table H1a5-439. Surface Water Supplied to CVP SOD Exchange Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	694	709	675	621	589	507
D	865	866	861	845	820	676
BN	875	875	873	875	864	773
AN	874	874	872	874	873	860
W	877	877	877	876	877	873
All	844	847	840	827	815	749

H1a5.6.58CVP SOD Refuge

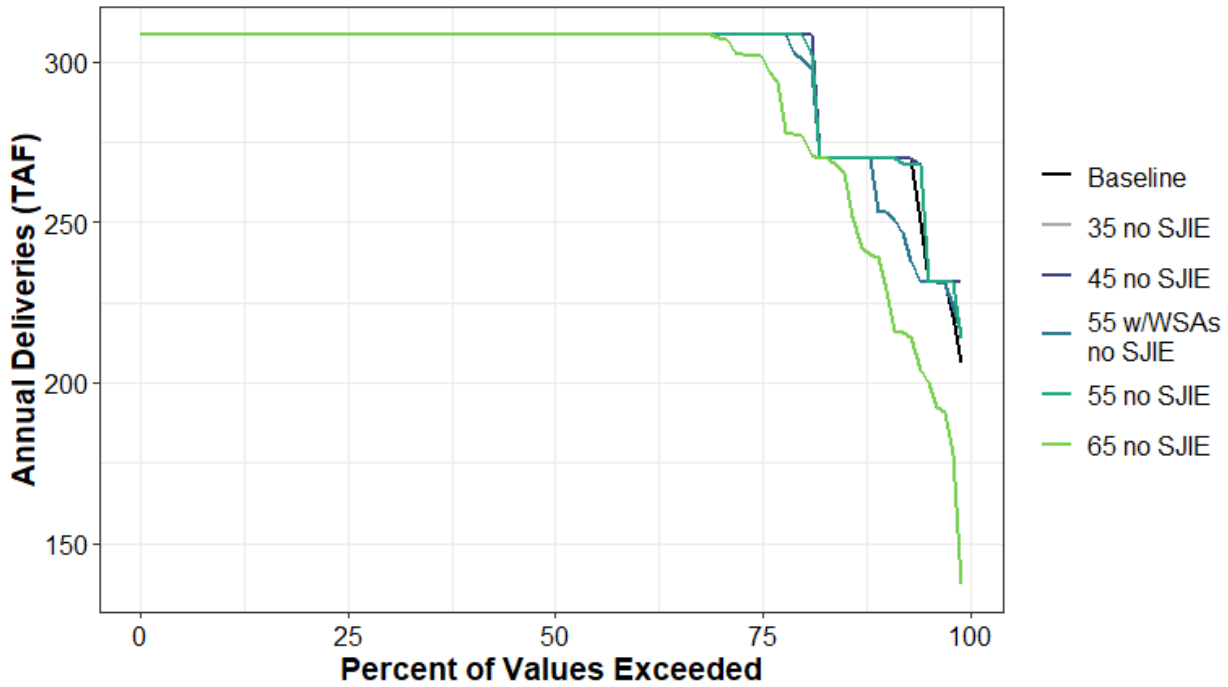

Figure H1a5-218. Surface Water Supplied to CVP SOD Refuge Annual Percent Exceedance Plot.

Table H1a5-440. Surface Water Supplied to CVP SOD Refuge Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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	308
80%	309	309	309	302	309	277
90%	270	270	270	253	270	237
100%	206	231	231	216	213	137
Mean	299	300	300	298	299	291

Table H1a5-441. Surface Water Supplied to CVP SOD Refuge Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	271	272	272	261	271	244
D	302	303	303	303	303	295
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	291

H1a5.6.59Total SWP Deliveries

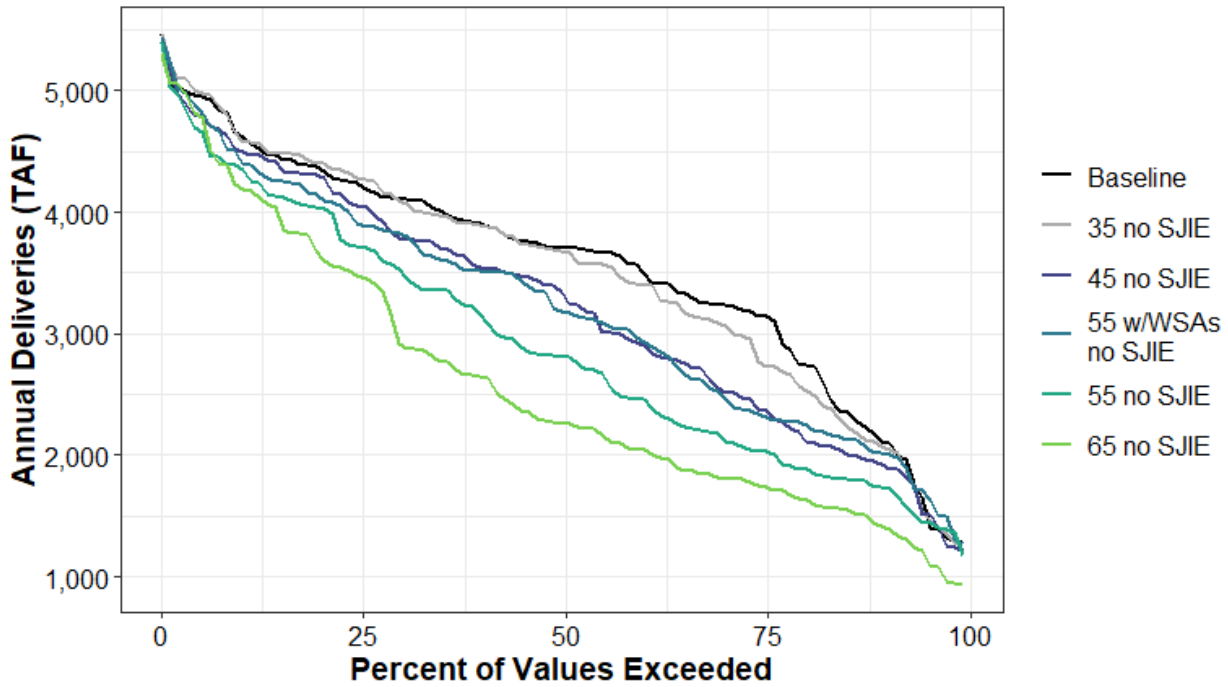

Figure H1a5-219. Surface Water Supplied to Total SWP Deliveries Annual Percent Exceedance Plot.

Table H1a5-442. Surface Water Supplied to Total SWP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	5,465	5,466	5,440	5,436	5,396	5,301
10%	4,630	4,600	4,499	4,417	4,362	4,195
20%	4,351	4,404	4,295	4,117	4,037	3,631
30%	4,112	4,083	3,779	3,816	3,497	2,898
40%	3,903	3,889	3,543	3,512	3,138	2,648
50%	3,710	3,676	3,348	3,178	2,815	2,261
60%	3,512	3,404	2,904	2,936	2,458	2,041
70%	3,231	3,069	2,536	2,489	2,139	1,814
80%	2,745	2,549	2,159	2,259	1,884	1,643
90%	2,110	2,062	1,917	2,011	1,730	1,405
100%	1,288	1,271	1,210	1,268	1,170	932
Mean	3,551	3,496	3,221	3,203	2,904	2,580

Table H1a5-443. Surface Water Supplied to Total SWP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	2,043	2,000	1,857	1,941	1,692	1,334
D	3,234	3,041	2,630	2,519	2,249	1,971
BN	3,631	3,531	3,102	3,182	2,705	2,317
AN	3,782	3,811	3,538	3,518	3,033	2,480
W	4,446	4,479	4,332	4,265	4,107	3,897
All	3,551	3,496	3,221	3,203	2,904	2,580

H1a5.6.60Total SWP Table A

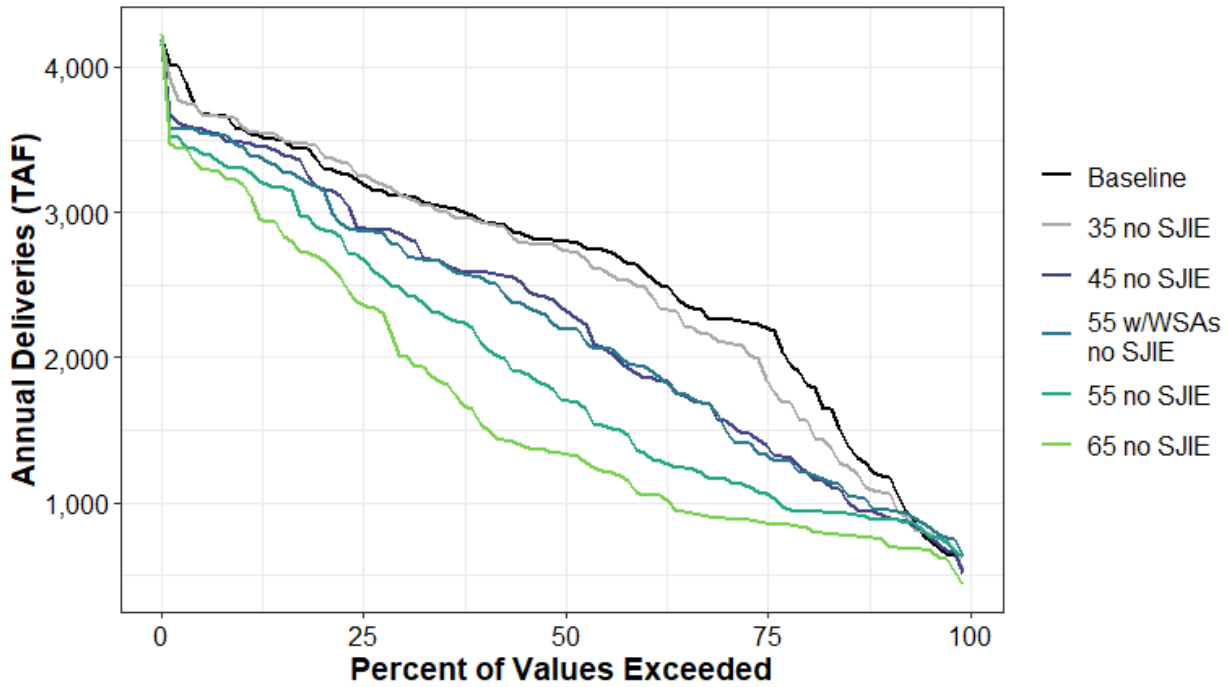

Figure H1a5-220. Surface Water Supplied to Total SWP Table A Annual Percent Exceedance Plot.

Table H1a5-444. Surface Water Supplied to Total SWP Table A Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4,190	4,191	4,182	4,161	4,176	4,226
10%	3,577	3,600	3,481	3,451	3,302	3,202
20%	3,326	3,415	3,170	3,159	2,887	2,679
30%	3,110	3,113	2,842	2,747	2,465	2,014
40%	2,941	2,933	2,588	2,545	2,096	1,533
50%	2,796	2,748	2,340	2,198	1,700	1,338
60%	2,595	2,488	1,865	1,934	1,351	1,059
70%	2,263	2,111	1,566	1,543	1,163	898
80%	1,866	1,578	1,234	1,210	942	836
90%	1,183	1,073	915	947	882	737
100%	549	530	514	638	630	435
Mean	2,595	2,522	2,221	2,191	1,907	1,641

Table H1a5-445. Surface Water Supplied to Total SWP Table A Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,190	1,156	1,016	1,049	906	702
D	2,273	2,046	1,617	1,515	1,286	1,073
BN	2,700	2,584	2,150	2,212	1,705	1,398
AN	2,830	2,858	2,520	2,478	1,978	1,471
W	3,421	3,425	3,231	3,169	2,997	2,780
All	2,595	2,522	2,221	2,191	1,907	1,641

H1a5.6.61SWP Table A North of Delta

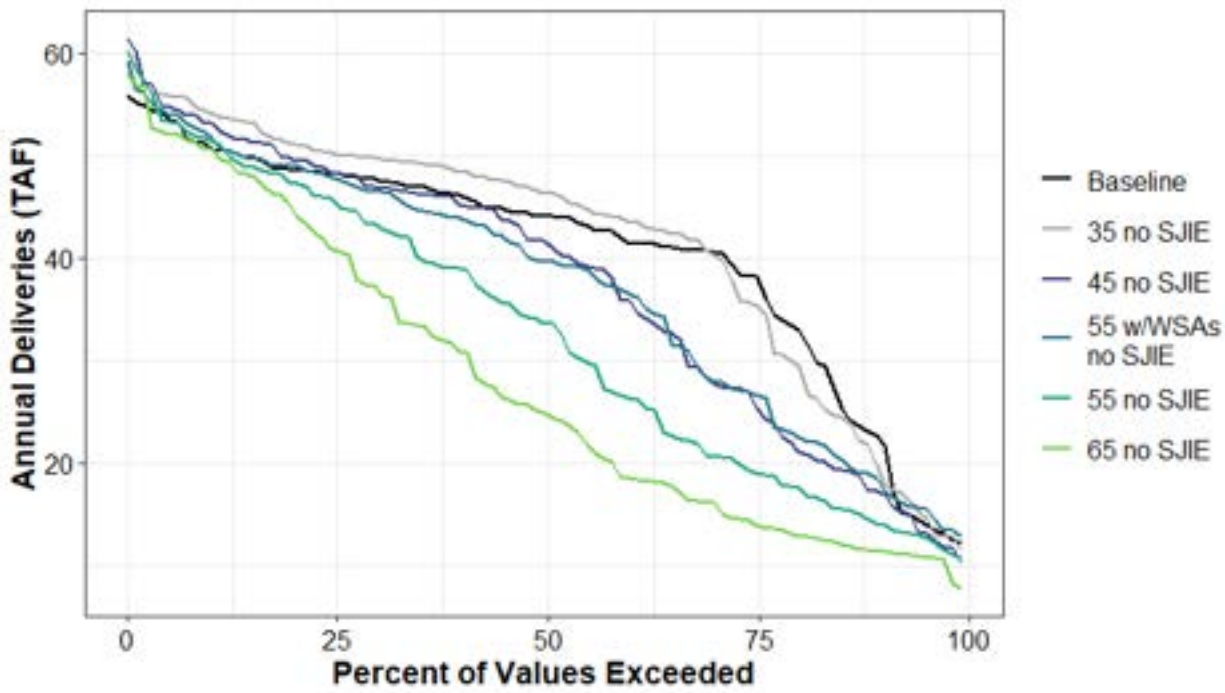

Figure H1a5-221. Surface Water Supplied to SWP Table A North of Delta Annual Percent Exceedance Plot.

Table H1a5-446. Surface Water Supplied to SWP Table A North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	56	60	61	59	60	58
10%	51	54	53	52	51	51
20%	49	51	50	49	47	45
30%	48	50	47	46	43	37
40%	46	48	45	44	39	31
50%	44	46	42	40	34	25
60%	42	44	36	37	26	19
70%	41	40	28	28	21	16
80%	33	30	22	23	18	13
90%	22	19	17	18	14	11
100%	12	11	10	13	11	8
Mean	41	42	37	37	33	28

Table H1a5-447. Surface Water Supplied to SWP Table A North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	21	21	17	18	14	11
D	37	36	29	28	23	17
BN	43	45	38	40	31	24
AN	46	49	46	44	39	31
W	50	52	51	50	49	46
All	41	42	37	37	33	28

H1a5.6.62SWP Table A South of Delta

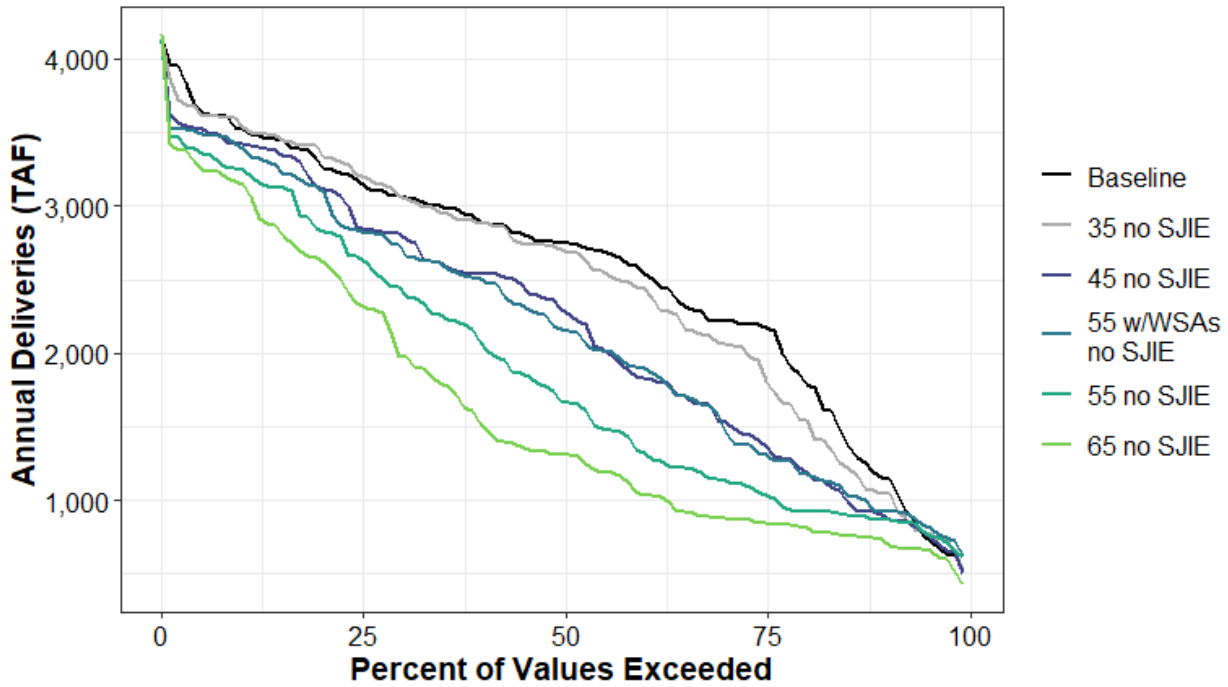

Figure H1a5-222. Surface Water Supplied to SWP Table A South of Delta Annual Percent Exceedance Plot.

Table H1a5-448. Surface Water Supplied to SWP Table A South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4,135	4,136	4,125	4,105	4,119	4,168
10%	3,528	3,550	3,421	3,398	3,251	3,152
20%	3,277	3,364	3,120	3,112	2,839	2,631
30%	3,064	3,064	2,794	2,700	2,423	1,977
40%	2,895	2,883	2,540	2,504	2,061	1,510
50%	2,750	2,706	2,296	2,160	1,670	1,314
60%	2,555	2,440	1,831	1,897	1,326	1,044
70%	2,221	2,071	1,540	1,515	1,141	882
80%	1,833	1,548	1,213	1,189	924	822
90%	1,160	1,050	901	928	867	727
100%	535	518	503	625	619	427
Mean	2,555	2,480	2,183	2,154	1,875	1,613

Table H1a5-449. Surface Water Supplied to SWP Table A South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	1,169	1,136	999	1,031	892	691
D	2,236	2,010	1,588	1,487	1,263	1,056
BN	2,657	2,539	2,112	2,172	1,674	1,375
AN	2,784	2,809	2,474	2,434	1,940	1,441
W	3,371	3,373	3,180	3,119	2,948	2,734
All	2,555	2,480	2,183	2,154	1,875	1,613

H1a5.6.63Total SWP Article 21

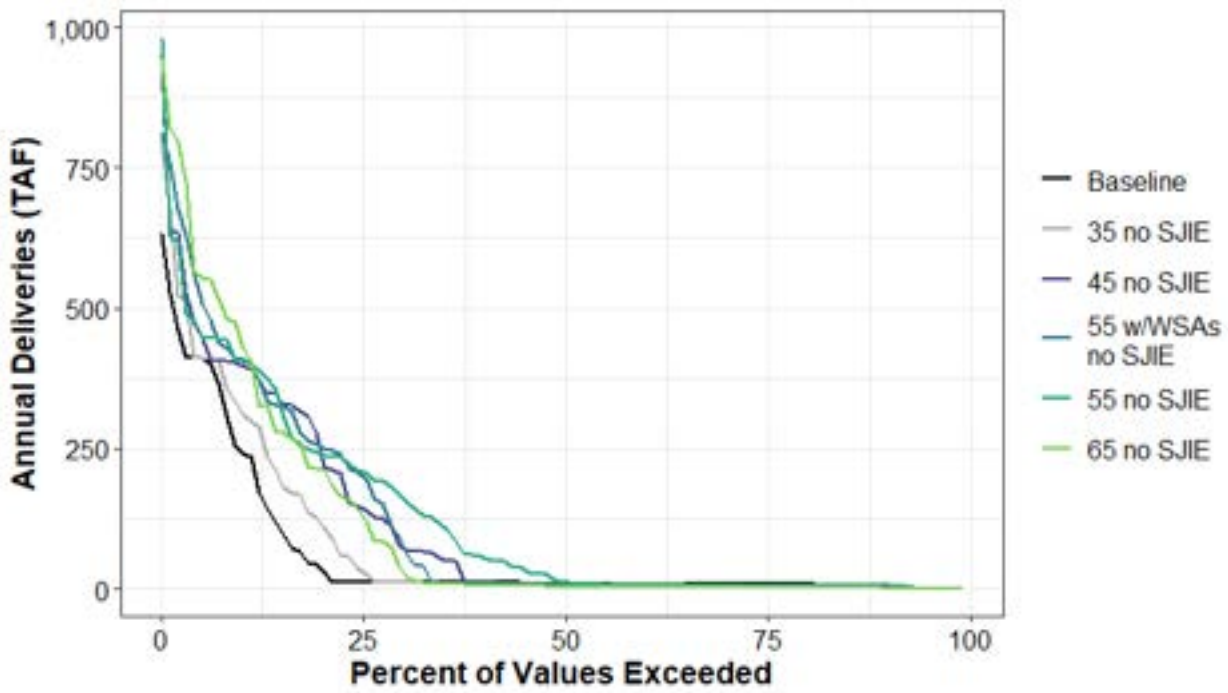

Figure H1a5-223. Surface Water Supplied to Total SWP Article 21 Annual Percent Exceedance Plot.

Table H1a5-450. Surface Water Supplied to Total SWP Article 21 Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	633	797	949	813	981	946
10%	244	314	397	407	408	438
20%	35	116	242	254	238	213
30%	11	11	74	80	162	32
40%	11	9	11	9	58	7
50%	10	8	8	8	13	4
60%	9	8	7	7	6	4
70%	9	7	6	6	5	3
80%	8	7	6	6	4	2
90%	6	5	5	5	4	2
100%	0	0	0	0	0	0
Mean	62	80	111	115	124	111

Table H1a5-451. Surface Water Supplied to Total SWP Article 21 Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	21	33	44	72	47	2
D	29	57	80	65	55	30
BN	18	27	40	51	96	85
AN	62	57	127	140	165	143
W	136	164	209	206	219	232
All	62	80	111	115	124	111

H1a5.6.64SWP Article 21 Central Coast and Tulare

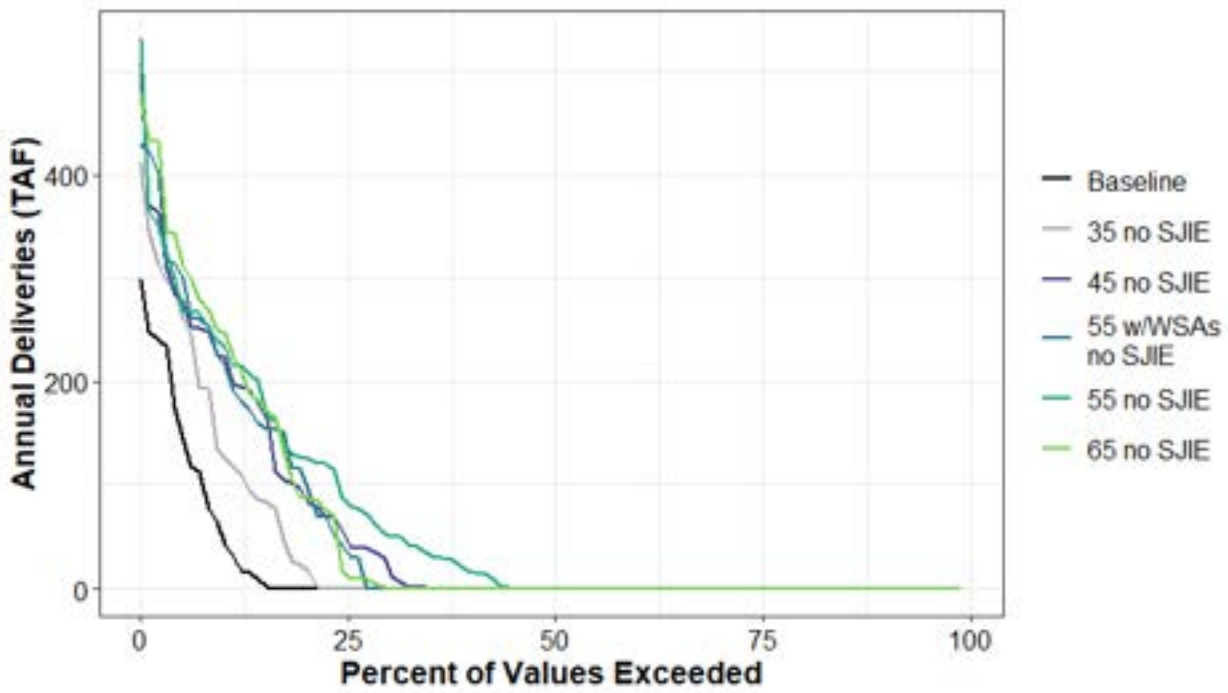

Figure H1a5-224. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Percent Exceedance Plot.

Table H1a5-452. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	300	413	507	430	532	475
10%	47	128	224	218	235	248
20%	1	19	89	105	126	88
30%	1	1	22	1	52	1
40%	1	1	1	1	17	1
50%	0	1	1	1	1	0
60%	0	0	1	1	1	0
70%	0	0	1	0	1	0
80%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	19	36	53	53	64	56

Table H1a5-453. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	8	17	23	39	26	0
D	10	37	51	41	36	21
BN	4	15	31	30	68	57
AN	7	10	43	43	80	55
W	45	68	88	87	95	112
All	19	36	53	53	64	56

H1a5.6.65SWP Article 21 South Bay Aqueduct

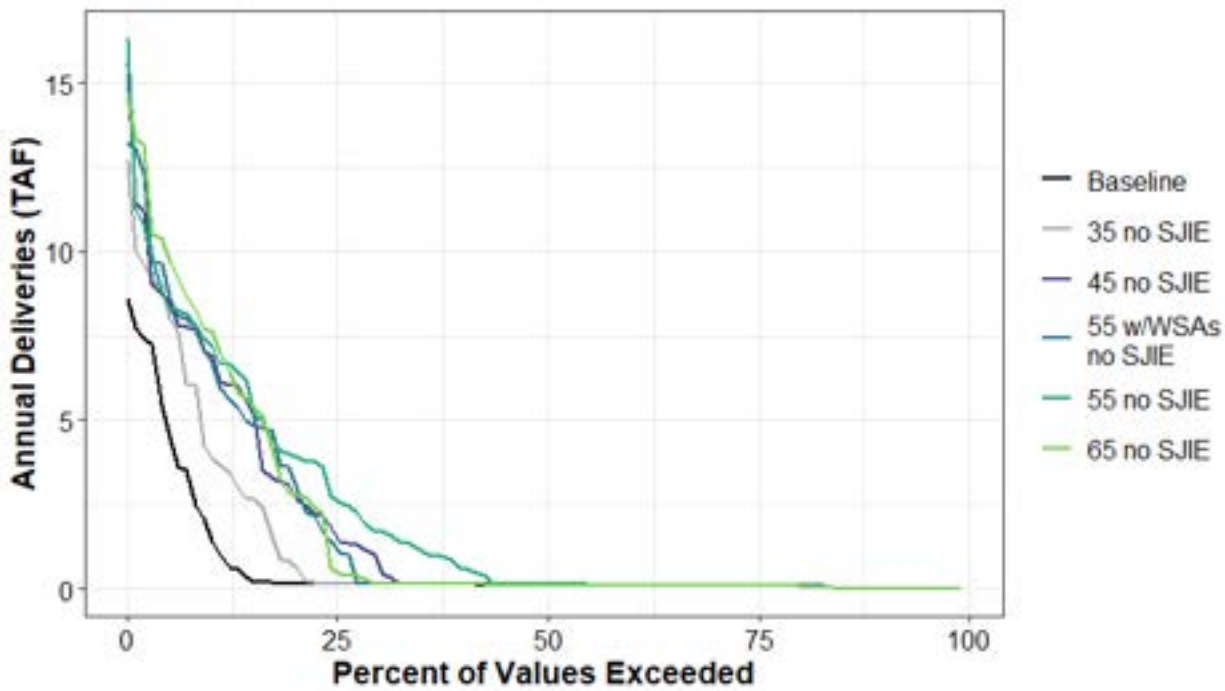

Figure H1a5-225. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Percent Exceedance Plot.

Table H1a5-454. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	8.6	12.7	15.5	13.2	16.3	14.6
10%	1.5	4	6.9	6.8	7.3	7.6
20%	0.2	0.7	2.9	3.3	4	2.8
30%	0.1	0.1	0.8	0.2	1.7	0.2
40%	0.1	0.1	0.1	0.1	0.6	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	1.2	1.7	1.7	2	1.8

Table H1a5-455. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	0.3	0.6	0.8	1.3	0.9	0.1
D	0.4	1.2	1.6	1.3	1.2	0.7
BN	0.2	0.5	1	1	2.1	1.8
AN	0.3	0.4	1.4	1.4	2.5	1.7
W	1.4	2.1	2.7	2.7	2.9	3.5
All	0.7	1.2	1.7	1.7	2	1.8

H1a5.6.66SWP Article 21 South Coast

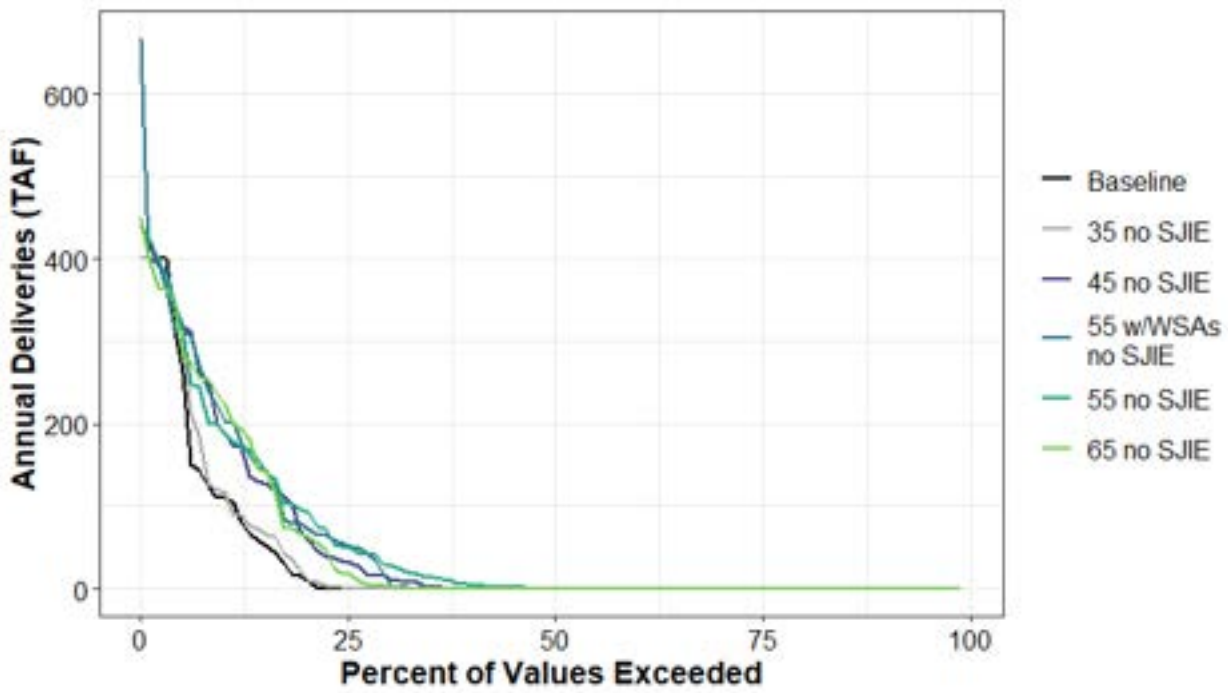

Figure H1a5-226. Surface Water Supplied to SWP Article 21 South Coast Annual Percent Exceedance Plot.

Table H1a5-456. Surface Water Supplied to SWP Article 21 South Coast Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	449	400	441	668	445	451
10%	111	117	189	207	190	225
20%	12	16	65	75	94	65
30%	0	0	13	11	27	3
40%	0	0	0	0	5	0
50%	0	0	0	0	1	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	36	51	55	54	50

Table H1a5-457. Surface Water Supplied to SWP Article 21 South Coast Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	7	10	16	27	17	0
D	11	12	22	17	15	7
BN	4	5	3	15	23	24
AN	46	39	77	89	77	83
W	80	85	110	109	114	110
All	34	36	51	55	54	50

H1a5.6.67SWP Article 21 Napa

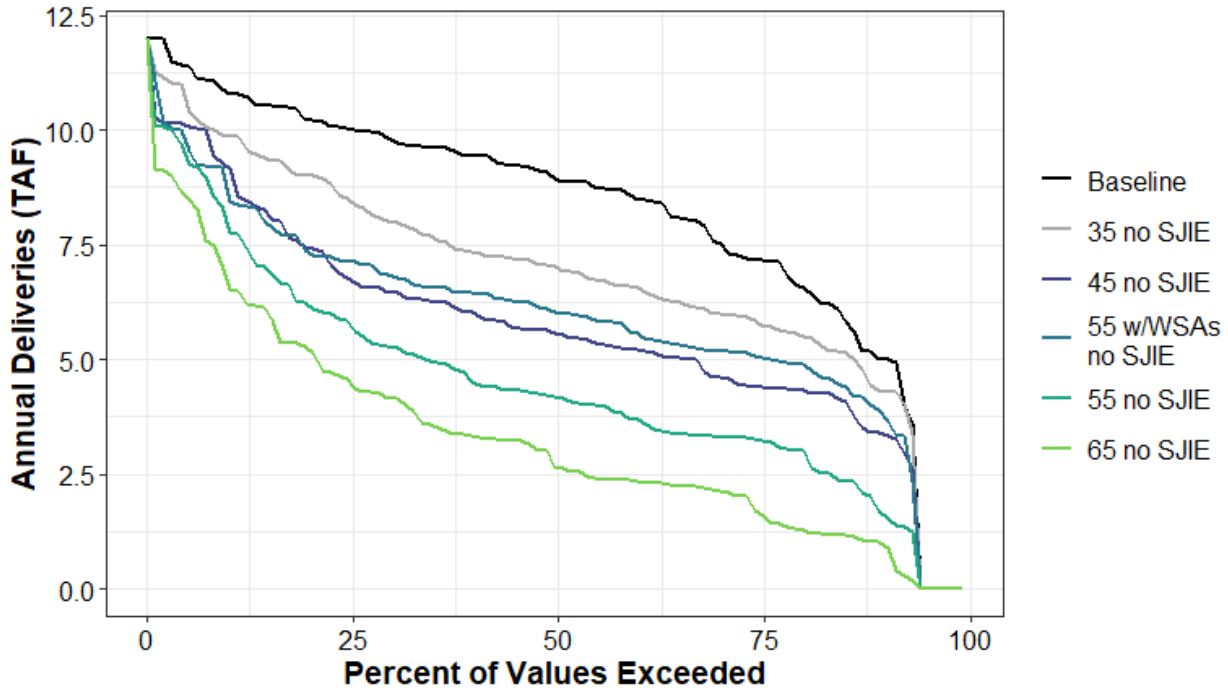

Figure H1a5-227. Surface Water Supplied to SWP Article 21 Napa Annual Percent Exceedance Plot.

Table H1a5-458. Surface Water Supplied to SWP Article 21 Napa Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	12	12	12	12	12	12
10%	10.8	9.9	9.2	8.6	7.9	6.6
20%	10.2	9	7.4	7.3	6.2	5.2
30%	9.8	8	6.5	6.8	5.3	4.2
40%	9.4	7.3	6	6.4	4.5	3.3
50%	8.9	7	5.6	6	4.2	2.6
60%	8.5	6.6	5.2	5.6	3.7	2.4
70%	7.5	6	4.6	5.2	3.3	2.2
80%	6.6	5.5	4.3	4.9	3	1.3
90%	5	4.3	3.4	3.9	1.7	1
100%	0	0	0	0	0	0
Mean	8.2	6.9	5.7	6	4.5	3.4

Table H1a5-459. Surface Water Supplied to SWP Article 21 Napa Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	5.7	5.3	4.2	5	2.9	1.4
D	7.3	5.8	4.5	5.1	3.1	1.9
BN	8.5	6.2	4.9	5.6	3.5	2.4
AN	9.3	7.8	6.1	6.3	4.8	3.9
W	9.6	8.6	7.7	7.3	6.9	5.9
All	8.2	6.9	5.7	6	4.5	3.4

H1a5.6.68SWP Feather River Service Area (Agricultural)

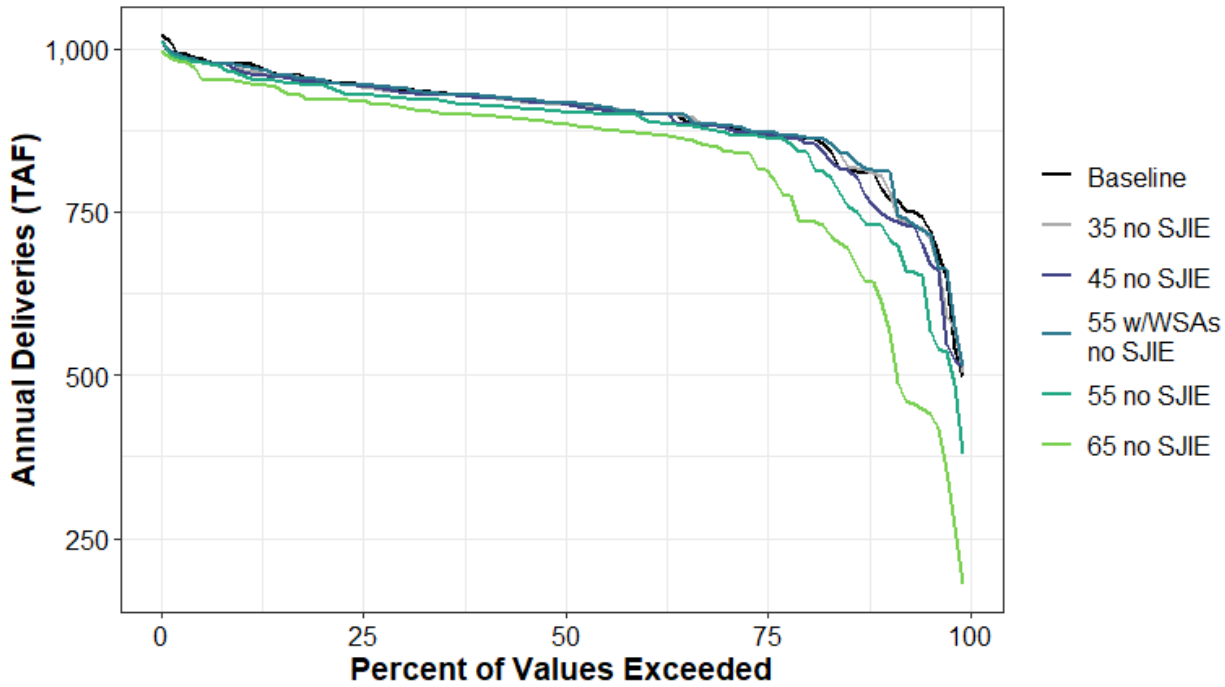

Figure H1a5-228. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a5-460. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	1,022	1,010	1,010	1,010	1,010	997
10%	976	969	966	974	960	950
20%	953	950	948	953	944	923
30%	939	933	934	940	924	911
40%	928	927	925	928	913	897
50%	916	915	916	918	903	884
60%	901	903	901	903	894	870
70%	883	884	880	884	872	845
80%	864	866	859	866	842	737
90%	781	800	745	813	725	602
100%	498	504	514	513	380	179
Mean	894	892	886	895	870	825

Table H1a5-461. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	830	804	791	817	734	625
D	932	935	930	938	905	867
BN	913	918	908	918	902	831
AN	890	894	888	899	886	863
W	889	889	890	890	889	883
All	894	892	886	895	870	825

H1a5.6.69SWP Settlement (Urban)

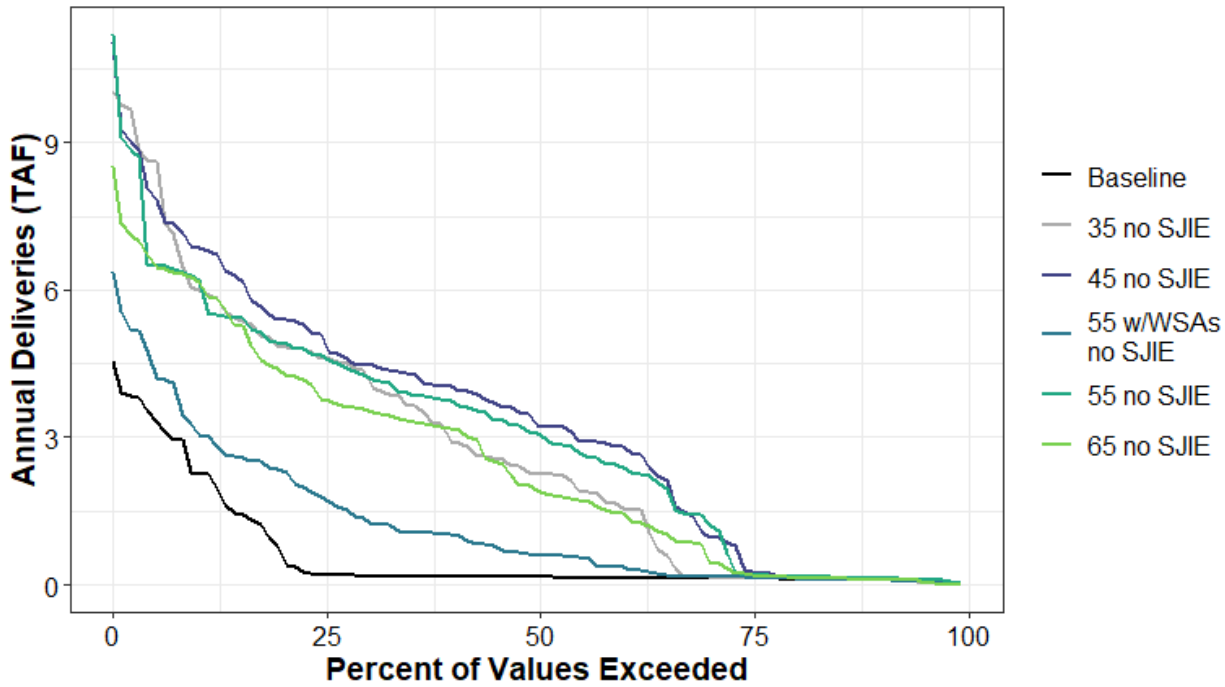

Figure H1a5-229. Surface Water Supplied to SWP Settlement (Urban) Annual Percent Exceedance Plot.

Table H1a5-462. Surface Water Supplied to SWP Settlement (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
0%	4.5	10	11	6.4	11.2	8.5
10%	2.3	6	6.9	3.1	6.2	6.2
20%	0.6	4.9	5.4	2.3	4.9	4.3
30%	0.2	4.2	4.5	1.3	4.2	3.5
40%	0.2	2.9	4	1	3.7	3.2
50%	0.2	2.3	3.2	0.6	3.1	1.9
60%	0.1	1.6	2.8	0.4	2.4	1.5
70%	0.1	0.2	1	0.2	1.3	0.6
80%	0.1	0.1	0.2	0.1	0.2	0.1
90%	0.1	0.1	0.1	0.1	0.1	0.1
100%	0	0	0	0	0	0
Mean	0.6	2.8	3.3	1.2	3	2.5

Table H1a5-463. Surface Water Supplied to SWP Settlement (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	2.5	6.5	6.5	3.7	5.7	4.1
D	0.4	2.8	3.3	1	2.3	1.6
BN	0.3	2.5	3.1	1	2.6	2.2
AN	0.1	2	3	0.6	3.3	2.8
W	0.1	1.2	1.9	0.4	2.2	2.4
All	0.6	2.8	3.3	1.2	3	2.5

H1a5.7 Groundwater Storage and Flows

H1a5.7.1 Total Groundwater Pumping

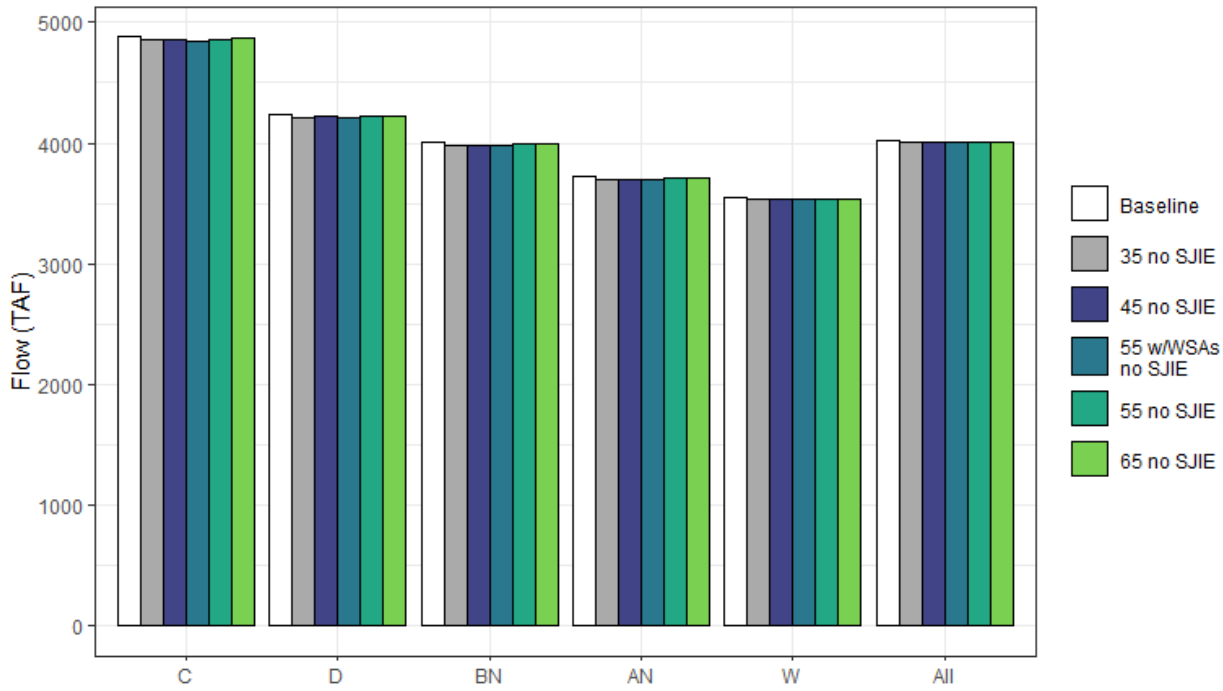

Figure H1a5-230. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

Table H1a5-464. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	4,884	4,852	4,859	4,848	4,861	4,869
D	4,242	4,215	4,219	4,212	4,221	4,226
BN	4,006	3,984	3,985	3,983	3,991	3,991
AN	3,721	3,702	3,704	3,702	3,708	3,710
W	3,546	3,536	3,536	3,536	3,536	3,538
All	4,027	4,006	4,008	4,004	4,011	4,014

H1a5.7.2 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.

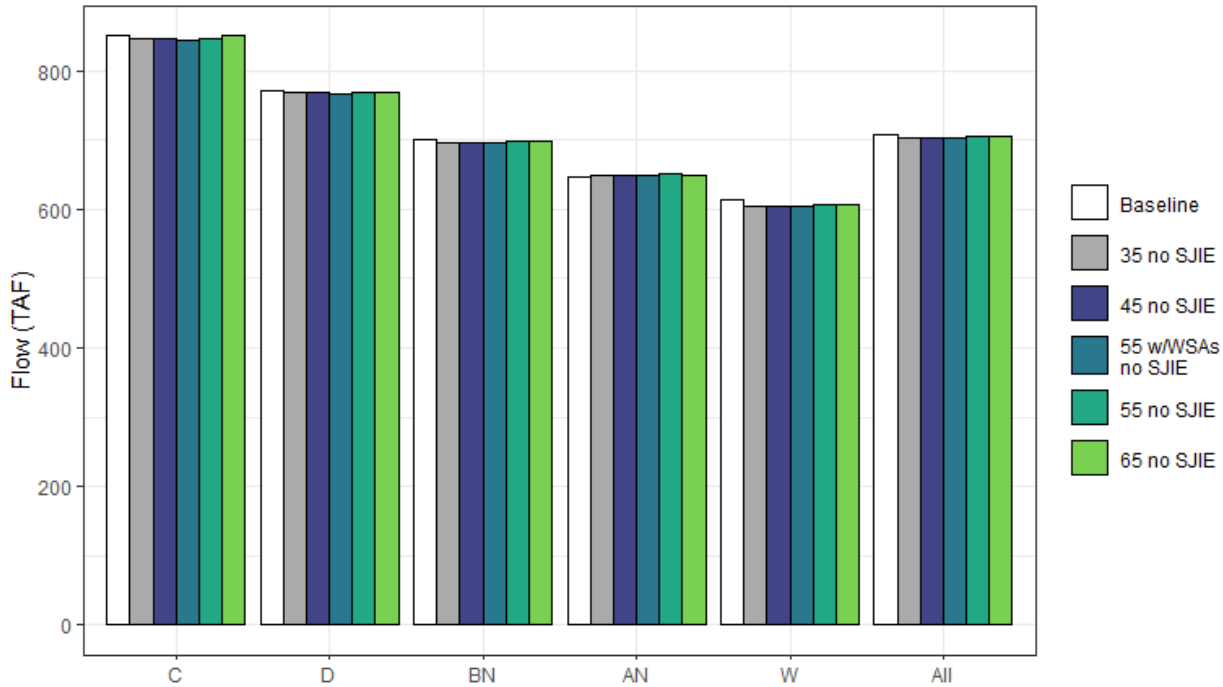

Figure H1a5-231. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a5-465. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	851	846	846	844	846	850
D	770	769	769	766	769	769
BN	701	696	697	696	699	697
AN	647	649	649	649	650	648
W	614	604	604	604	607	606
All	708	703	703	702	704	704

H1a5.7.3 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.

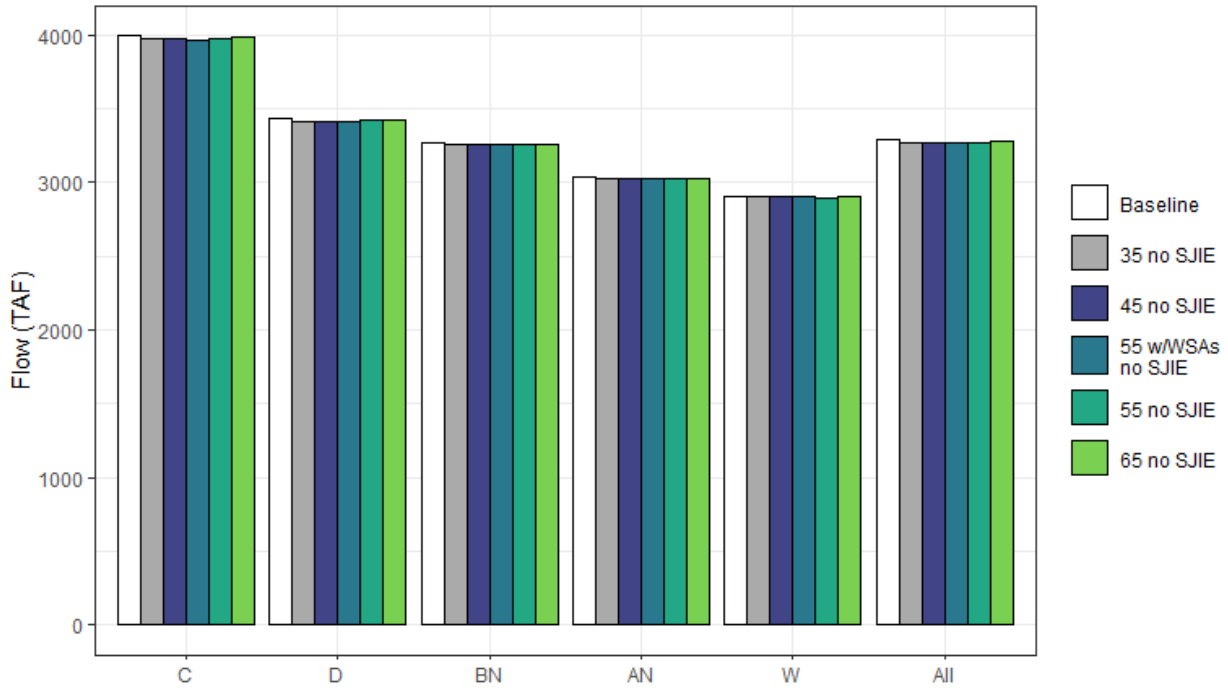

Figure H1a5-232. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

Table H1a5-466. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	3,998	3,971	3,978	3,970	3,981	3,985
D	3,439	3,413	3,417	3,412	3,419	3,423
BN	3,273	3,256	3,256	3,256	3,260	3,261
AN	3,043	3,023	3,025	3,023	3,028	3,031
W	2,902	2,902	2,901	2,901	2,899	2,902
All	3,287	3,271	3,273	3,270	3,274	3,277

H1a5.7.4 Groundwater Pumping by Basin

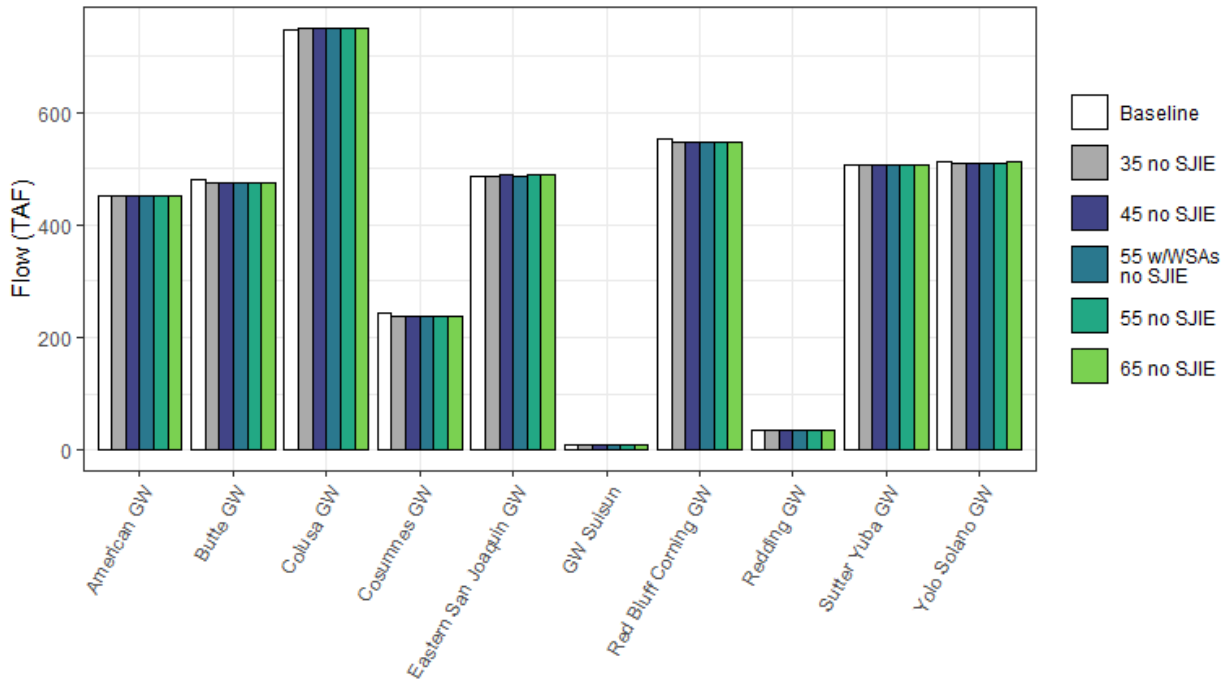

Figure H1a5-233. Annual Average Groundwater Pumping by Basin (TAF/yr).

Table H1a5-467. Annual Average Groundwater Pumping by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
American GW	453	-2	-2	-2	-1	-1
Butte GW	479	-4	-4	-5	-3	-4
Colusa GW	747	1	2	1	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

H1a5.7.5 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.

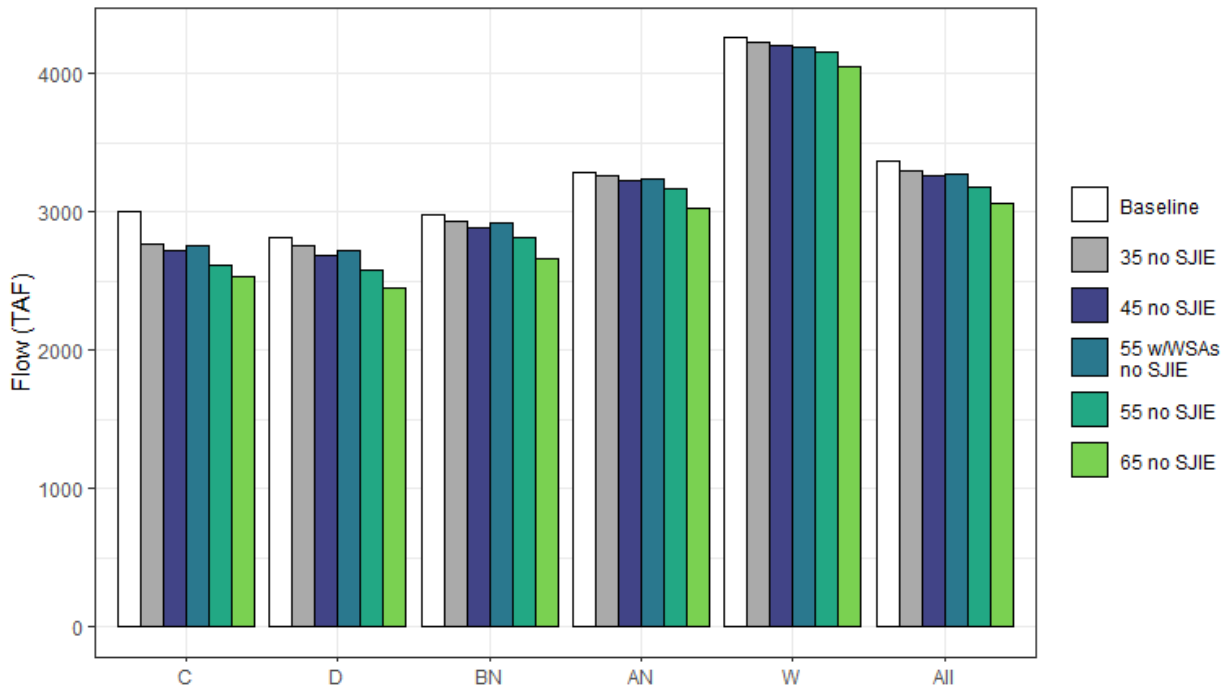

Figure H1a5-234. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

Table H1a5-468. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	3,001	2,773	2,724	2,757	2,622	2,536
D	2,819	2,752	2,692	2,720	2,578	2,457
BN	2,982	2,932	2,891	2,920	2,814	2,660
AN	3,291	3,259	3,231	3,236	3,172	3,029
W	4,264	4,225	4,203	4,190	4,160	4,048
All	3,375	3,298	3,258	3,273	3,182	3,060

H1a5.7.6 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.

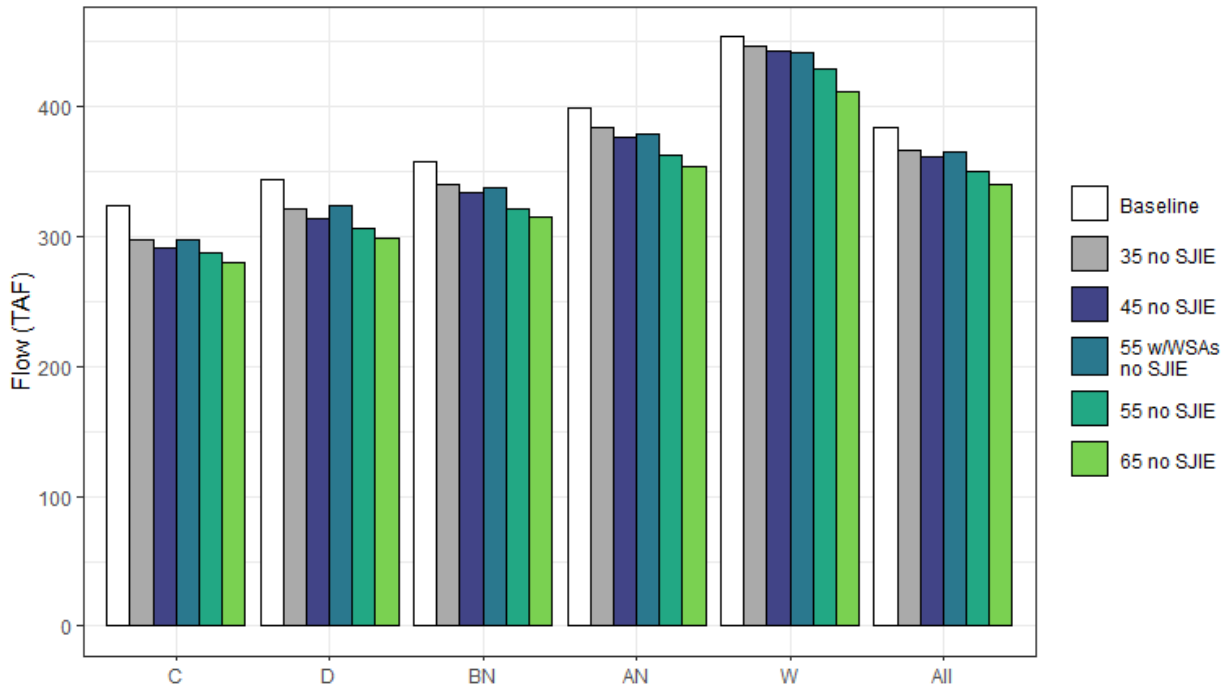

Figure H1a5-235. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a5-469. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	324	297	291	297	287	280
D	344	321	314	324	306	299
BN	357	339	333	337	322	315
AN	399	384	376	379	363	353
W	454	446	443	442	429	411
All	383	366	360	364	350	339

H1a5.7.7 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.

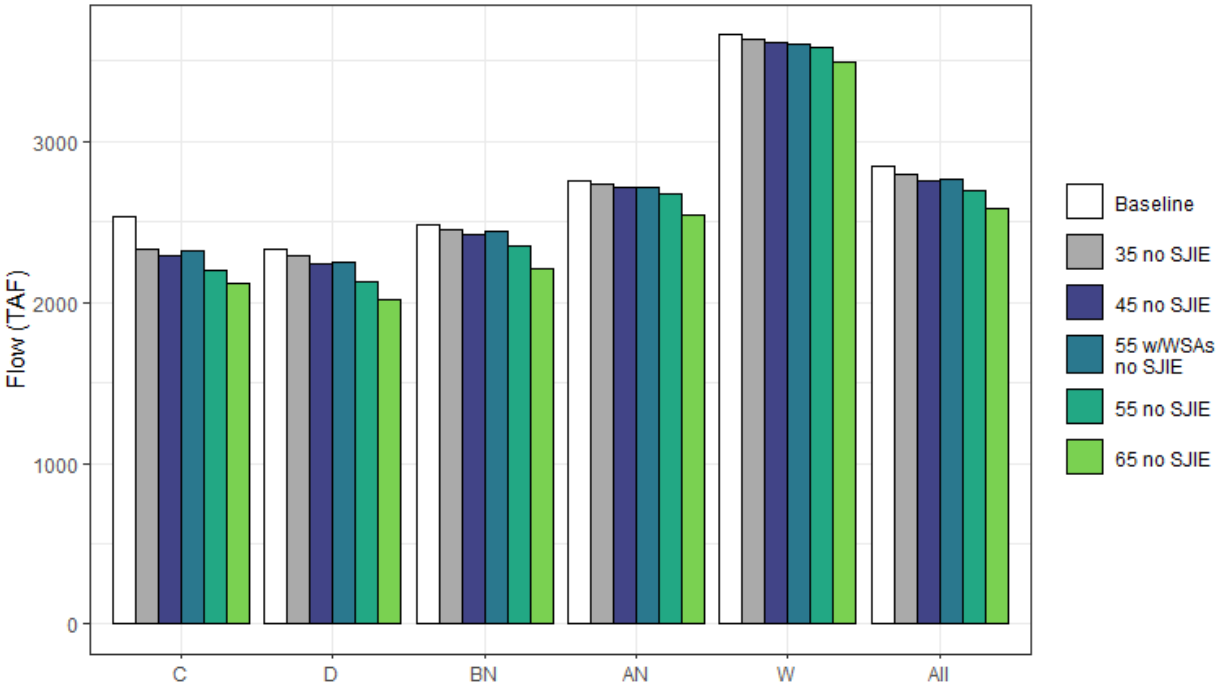

Figure H1a5-236. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a5-470. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	2,534	2,336	2,293	2,318	2,196	2,118
D	2,330	2,290	2,237	2,252	2,132	2,019
BN	2,485	2,455	2,420	2,445	2,356	2,210
AN	2,752	2,737	2,718	2,718	2,672	2,540
W	3,667	3,637	3,619	3,607	3,590	3,496
All	2,849	2,791	2,758	2,767	2,693	2,582

H1a5.7.8 Total Groundwater Recharge by Basin

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses.

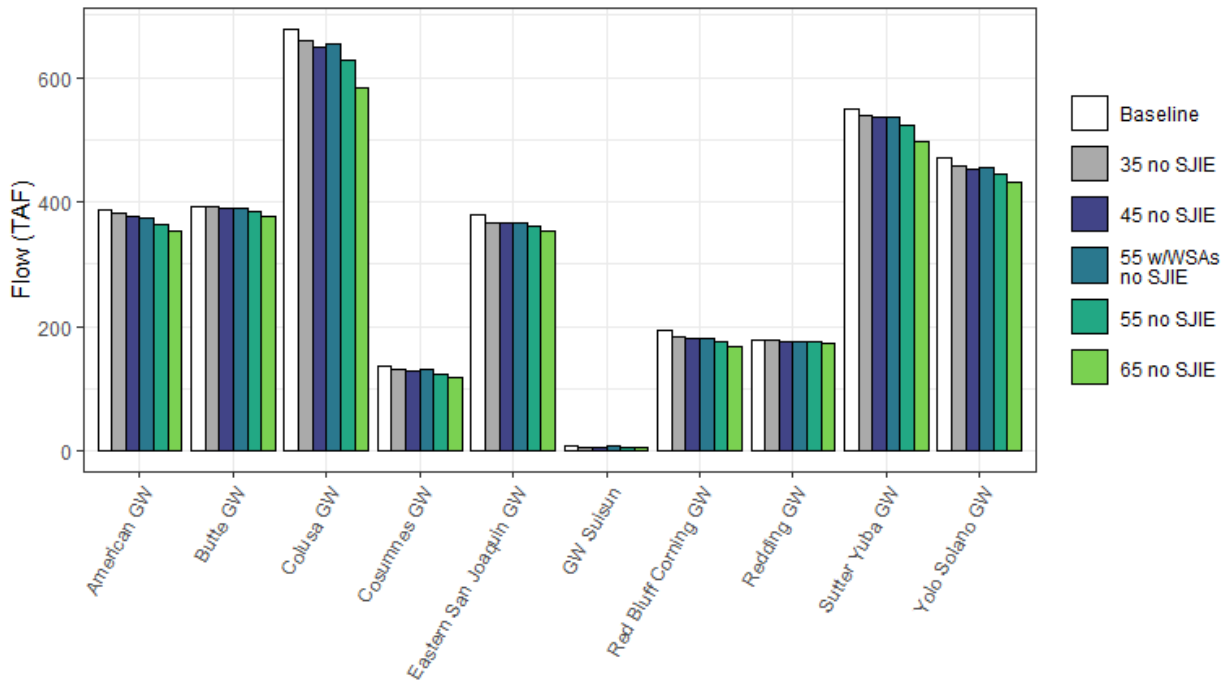

Figure H1a5-237. Annual Average Groundwater Recharge by Basin (TAF/yr).

Table H1a5-471. Annual Average Groundwater Recharge by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
American GW	388	-6	-12	-13	-23	-34
Butte GW	393	-1	-3	-3	-7	-14
Colusa GW	678	-20	-30	-25	-51	-96
Cosumnes GW	137	-5	-9	-7	-13	-19
Eastern San Joaquin GW	380	-12	-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	-12	-26	-52
Yolo Solano GW	471	-13	-18	-14	-27	-39

H1a5.7.9 Total Stream-Groundwater Flux

Total stream-groundwater flux represents the net flow from streams to underlying groundwater basins.

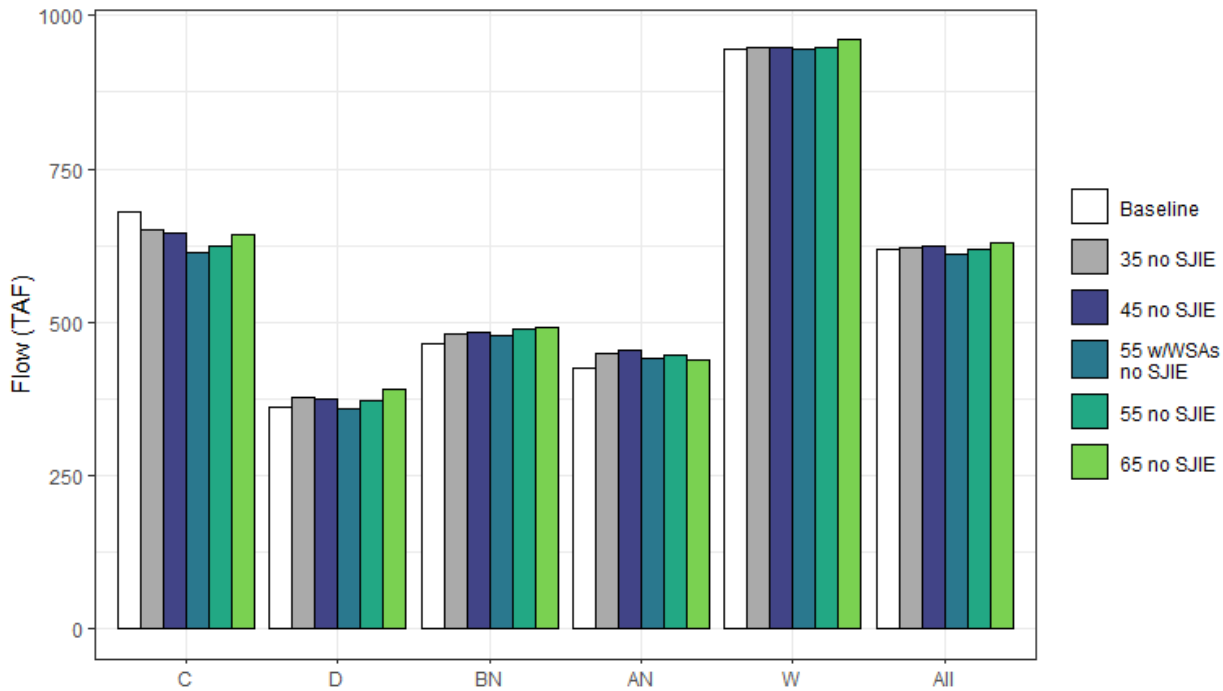

Figure H1a5-238. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

Table H1a5-472. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	680	650	646	614	624	642
D	363	378	375	360	372	390
BN	466	481	484	478	489	492
AN	426	449	454	440	446	438
W	946	947	949	944	948	961
All	618	623	623	610	619	629

H1a5.7.10 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.

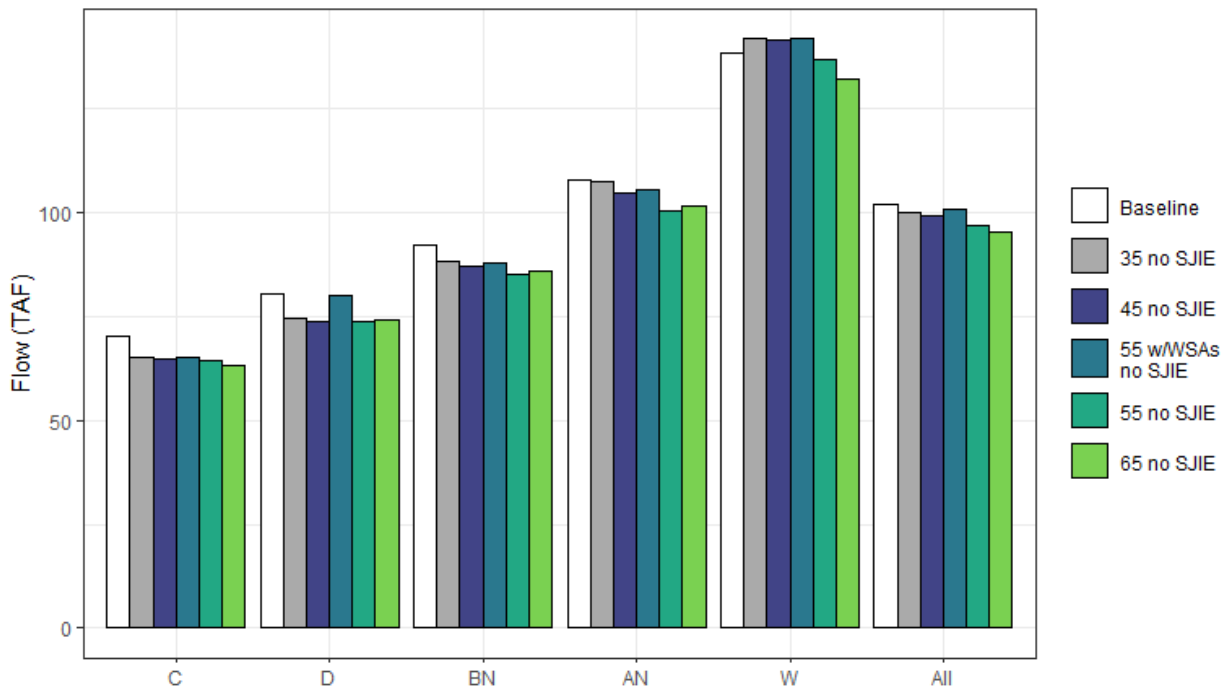

Figure H1a5-239. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a5-473. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	70	65	65	65	65	63
D	81	75	74	80	74	74
BN	92	88	87	88	85	86
AN	108	108	105	106	101	101
W	138	142	142	142	137	132
All	102	100	99	101	97	96

H1a5.7.11 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.

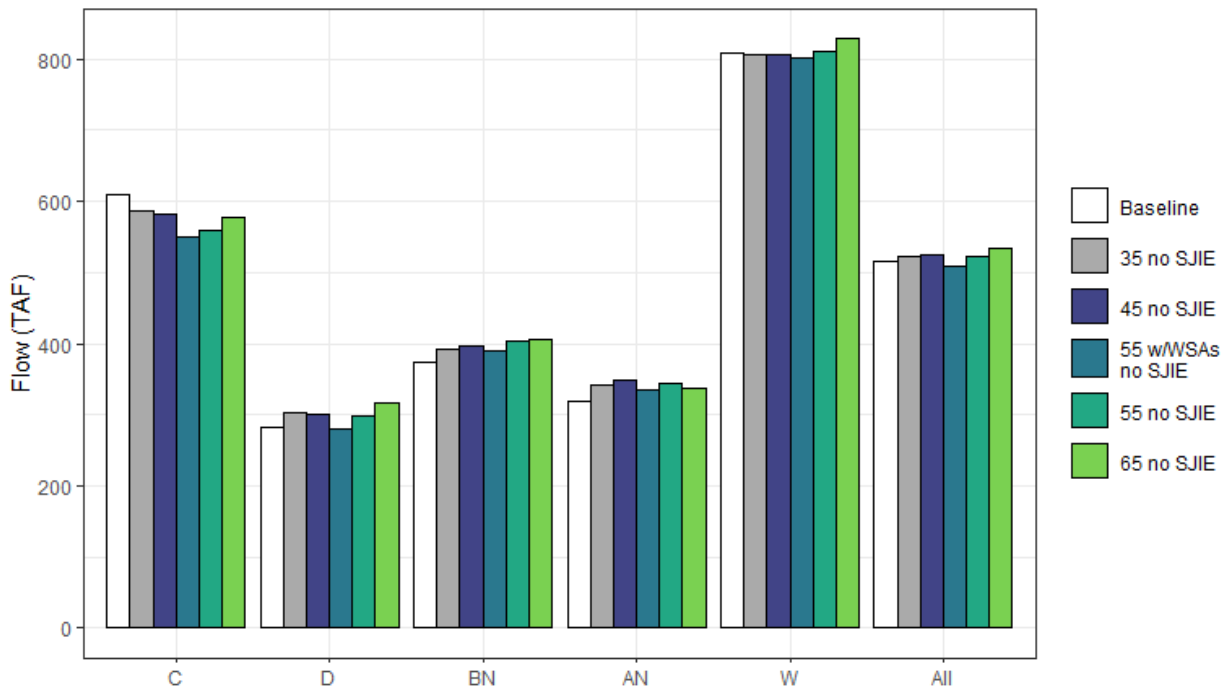

Figure H1a5-240. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a5-474. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
C	610	585	582	549	560	578
D	282	303	301	279	298	316
BN	373	393	397	390	404	406
AN	318	341	350	335	345	337
W	807	805	807	802	811	829
All	516	523	524	509	522	533

H1a5.7.12 Stream-Groundwater Flux by Basin

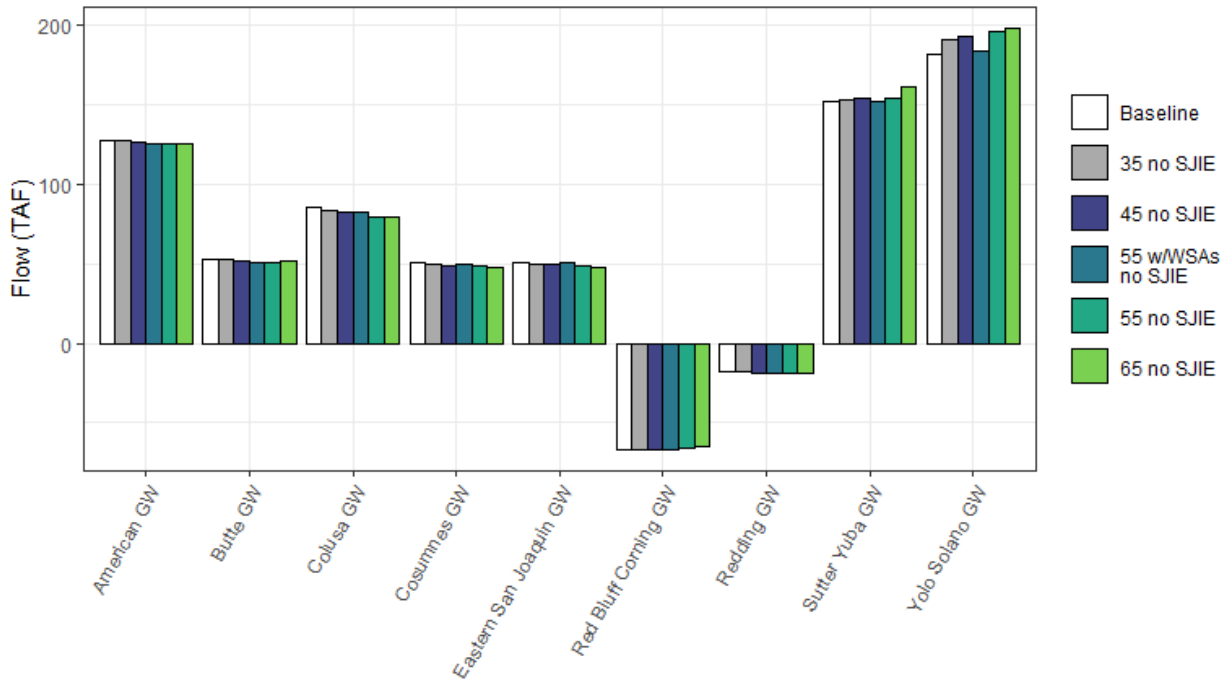

Figure H1a5-241. Stream-Groundwater Flux (Net Groundwater Gain) by Basin (TAF/yr).

Table H1a5-475. Annual Average Stream-Groundwater Flux by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
American GW	128	0	-1	-3	-3	-2
Butte GW	52	0	0	-2	-1	0
Colusa GW	86	-2	-4	-4	-6	-6
Cosumnes GW	51	-1	-2	-1	-2	-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	3	9
Yolo Solano GW	182	9	12	3	14	17

H1a5.7.13 Groundwater Storage by Basin

Table H1a5-476. Annual Average Rate of Change in Storage by Basin (TAF/yr).

Basin	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
American GW	-65	-68	-75	-76	-86	-98
Butte GW	-86	-84	-86	-85	-90	-97
Colusa GW	-69	-89	-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	-362	-367	-367	-373	-381
Redding GW	143	141	140	141	139	136
Sutter Yuba GW	43	35	30	32	18	-9
Yolo Solano GW	-42	-53	-58	-53	-66	-79

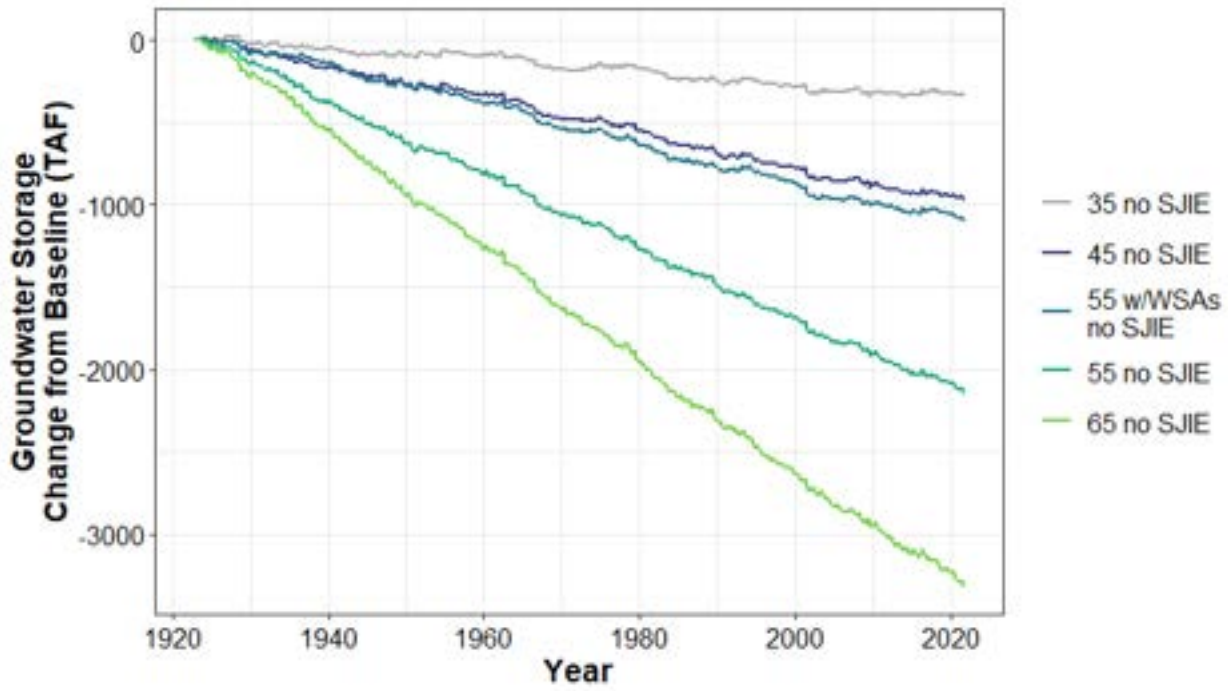

Figure H1a5-242. American River Groundwater Basin End of Year Storage—Change from Baseline (TAF)

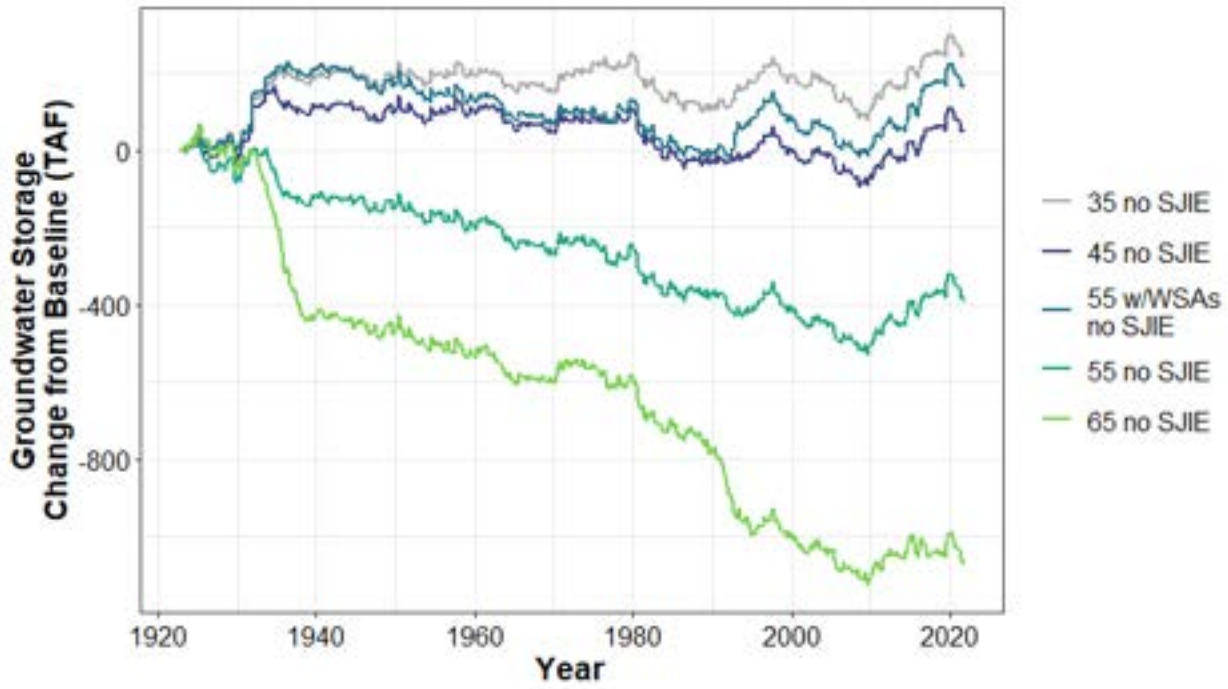

Figure H1a5-243. Butte Groundwater Basin End of Year Storage—Change from Baseline (TAF)

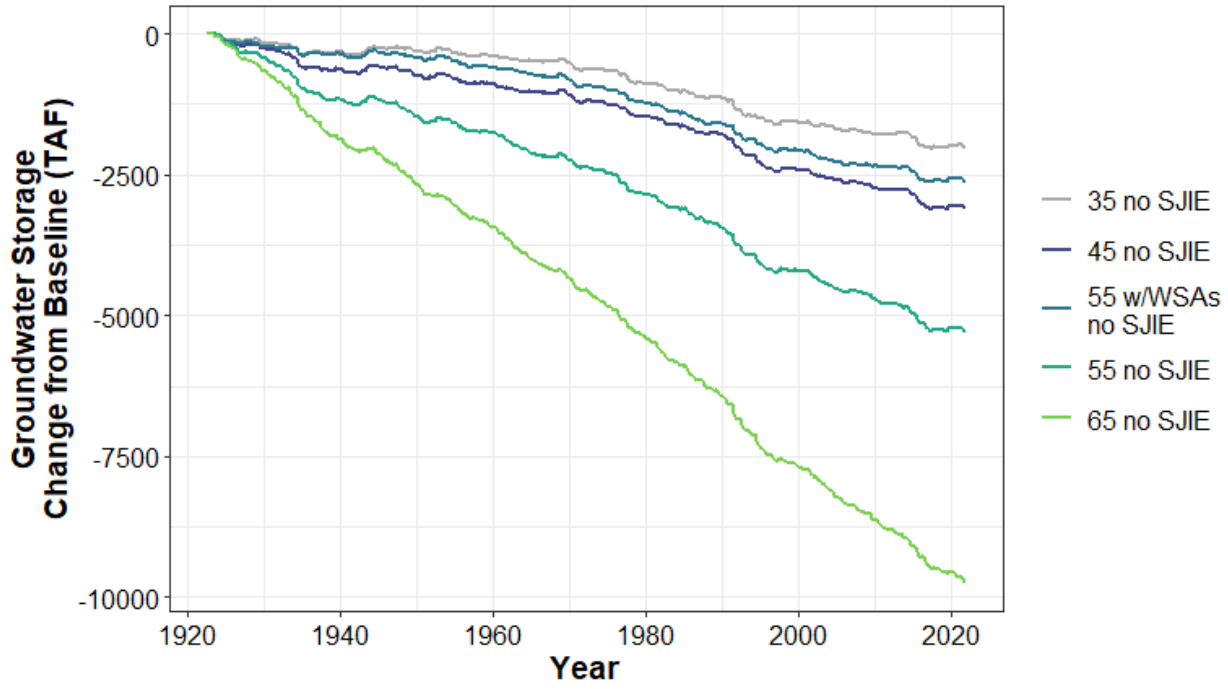

Figure H1a5-244. Colusa Groundwater Basin End of Year Storage—Change from Baseline (TAF)

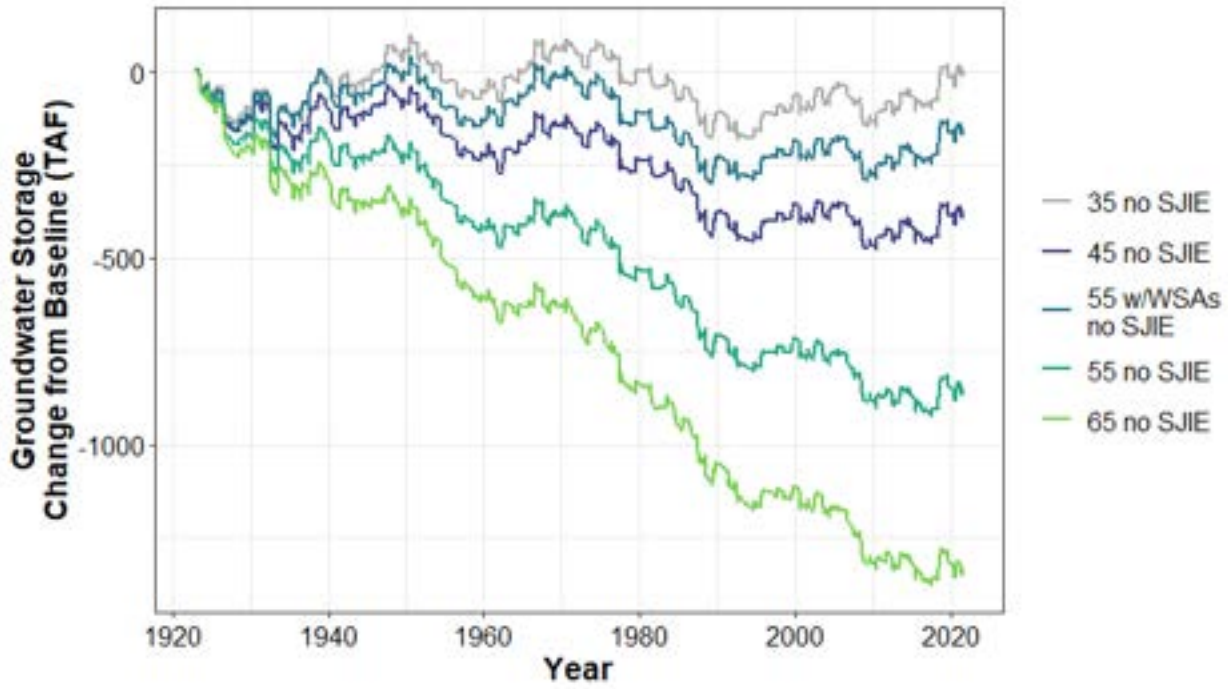

Figure H1a5-245. Cosumnes Groundwater Basin End of Year Storage—Change from Baseline (TAF)

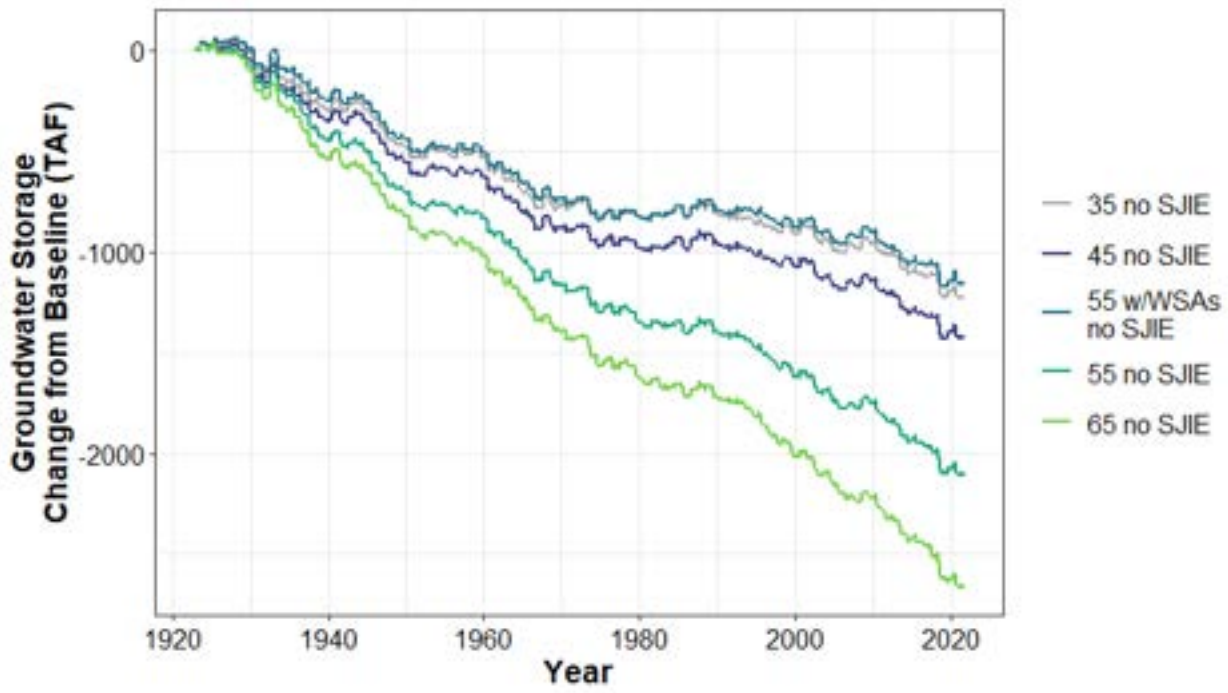

Figure H1a5-246. Eastern San Joaquin Groundwater Basin End of Year Storage—Change from Baseline (TAF)

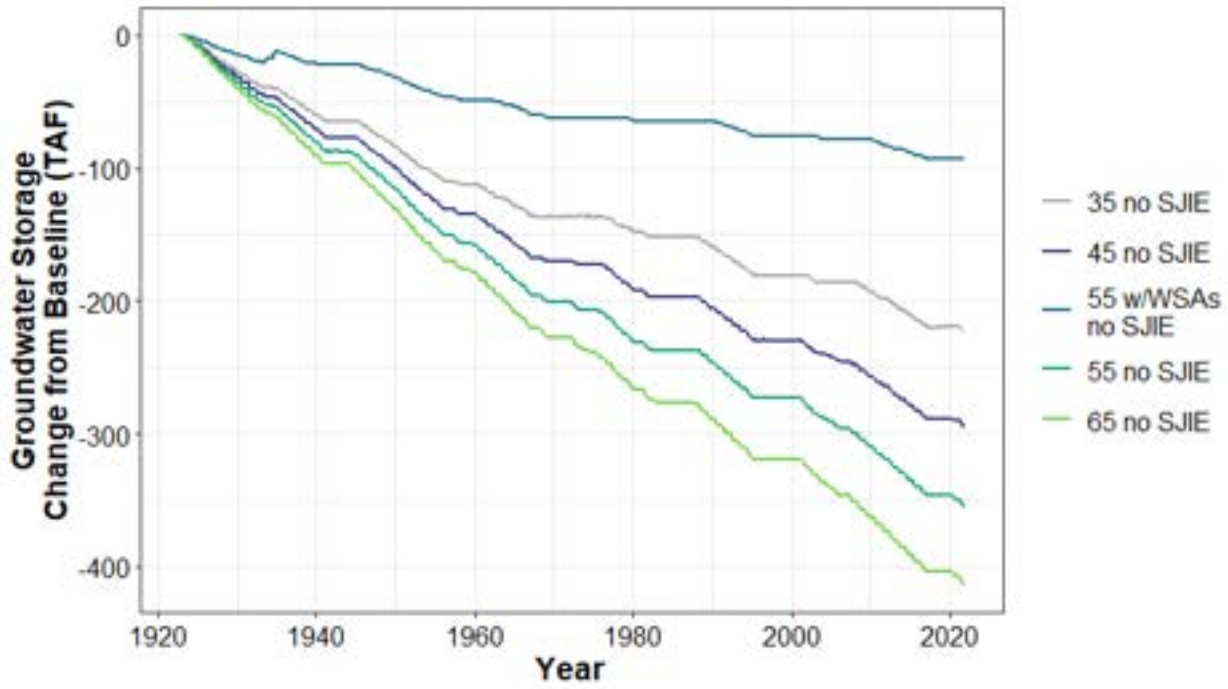

Figure H1a5-247. Suisun Groundwater Basin End of Year Storage—Change from Baseline (TAF)

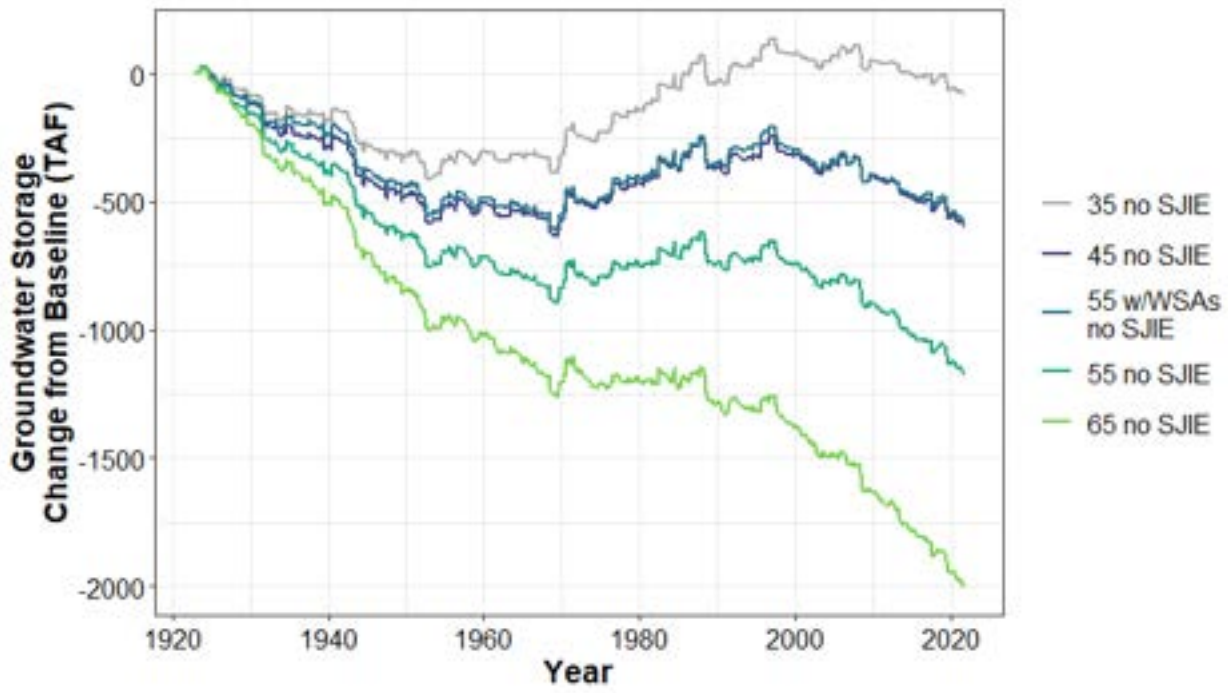

Figure H1a5-248. Red Bluff-Corning Groundwater Basin End of Year Storage—Change from Baseline (TAF)

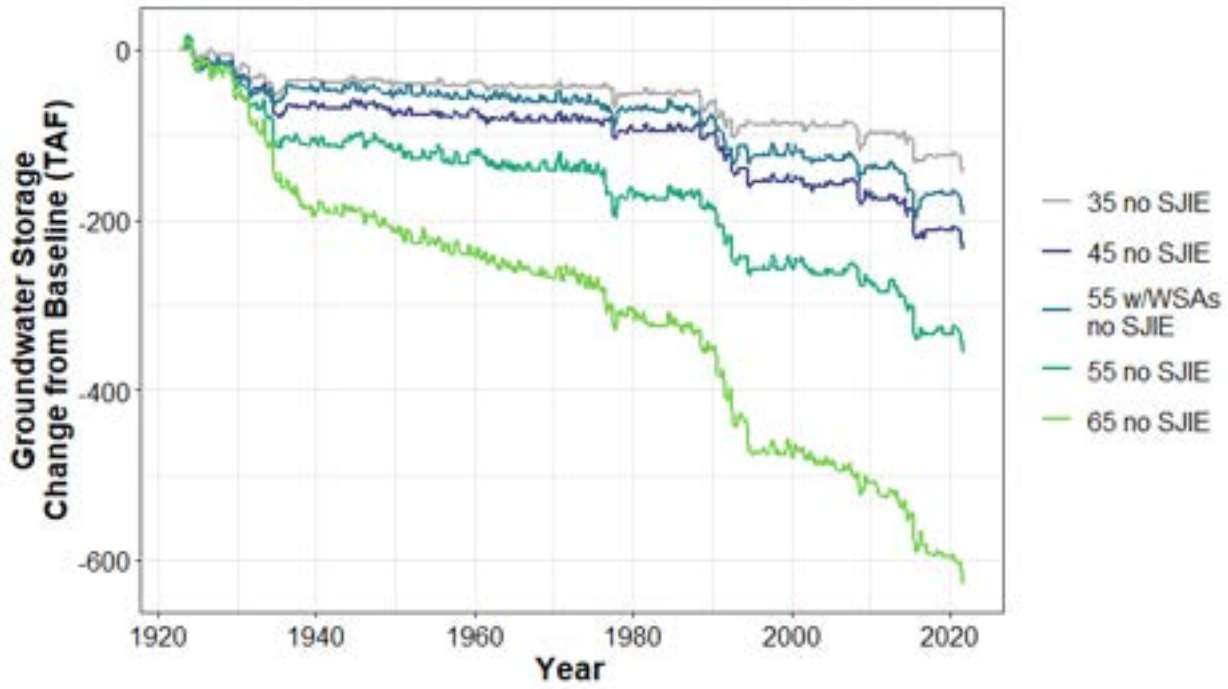

Figure H1a5-249. Redding Groundwater Basin End of Year Storage—Change from Baseline

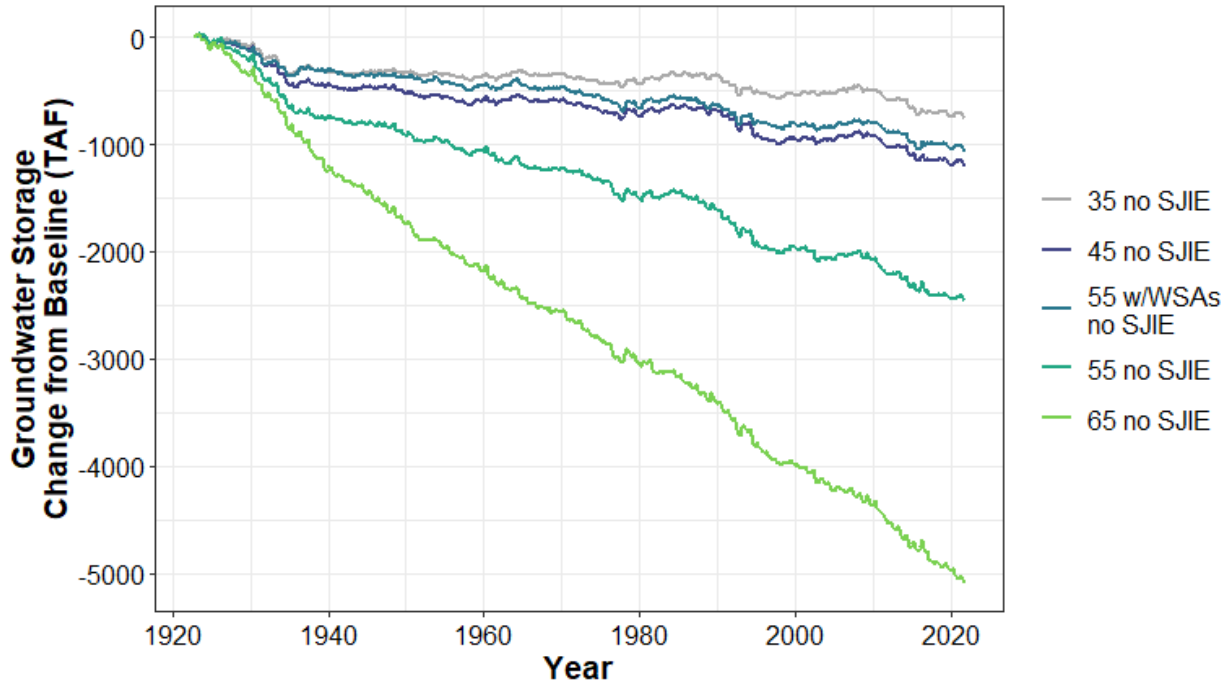

Figure H1a5-250. Sutter-Yuba Groundwater Basin End of Year Storage—Change from Baseline

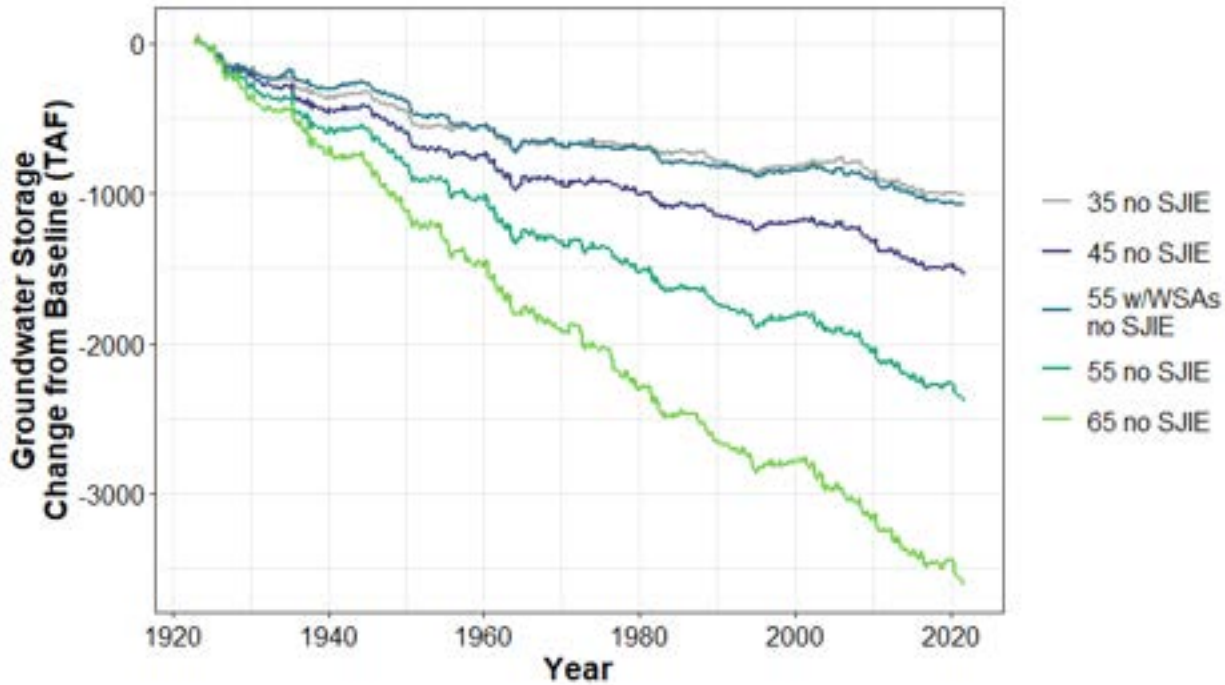

Figure H1a5-251. Yolo-Solano Groundwater Basin End of Year Storage—Change from Baseline

H1a5.8 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 H1a5-477. Number of Months (Percent of Months) with Unmet REG Instream Flow Requirements

Requirement	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no 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)	10 (1)	11 (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)

Requirement	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
REG Lodi1950 LoMayStorageLoEOMStorage	0 (0)	0 (0)	8 (1)	0 (0)	22 (2)	40 (3)
REG Lodi22415 Base	10 (1)	10 (1)	10 (1)	11 (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)	74 (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 H1a5-478. Number of Months (Percent of Months) with Unmet SWRCB Instream Flow Requirements

Requirement	Baseline	35 no SJIE	45 no SJIE	55 w/WSAs no SJIE	55 no SJIE	65 no SJIE
SWRCB Black Butte	-	10 (1)	22 (2)	14 (1)	33 (3)	60 (5)
SWRCB Black Butte Inflow	-	0 (0)	0 (0)	0 (0)	7 (1)	24 (2)
SWRCB Cache Creek	-	0 (0)	0 (0)	0 (0)	1 (0)	5 (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)	33 (3)
SWRCB Oroville	-	5 (0)	6 (1)	9 (1)	12 (1)	15 (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)