Appendix H1a3

Sacramento Water Allocation Model Results for Updated Unimpaired Flow Scenarios

H1a3.1 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*.

Results summarized in this appendix include updated unimpaired flow scenarios ranging from 35% to 65% of unimpaired flow (UF), labeled "35," "45," "55," and "65," and the 55% UF with water supply adjustments (WSAs) scenario, labeled "55 w/WSAs" in the summary of results that follows. 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*.

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.

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.

H1a3.2 Streamflows

Simulated streamflow data are presented for each location where new SWRCB instream flow requirements were added to the model and for other locations that may be of interest along the Sacramento River. For each location, a monthly boxplot is presented followed by tables of cumulative distributions for each scenario and results summarized by water year type.

H1a3.2.1 American River below Folsom Reservoir (SWRCB Folsom)

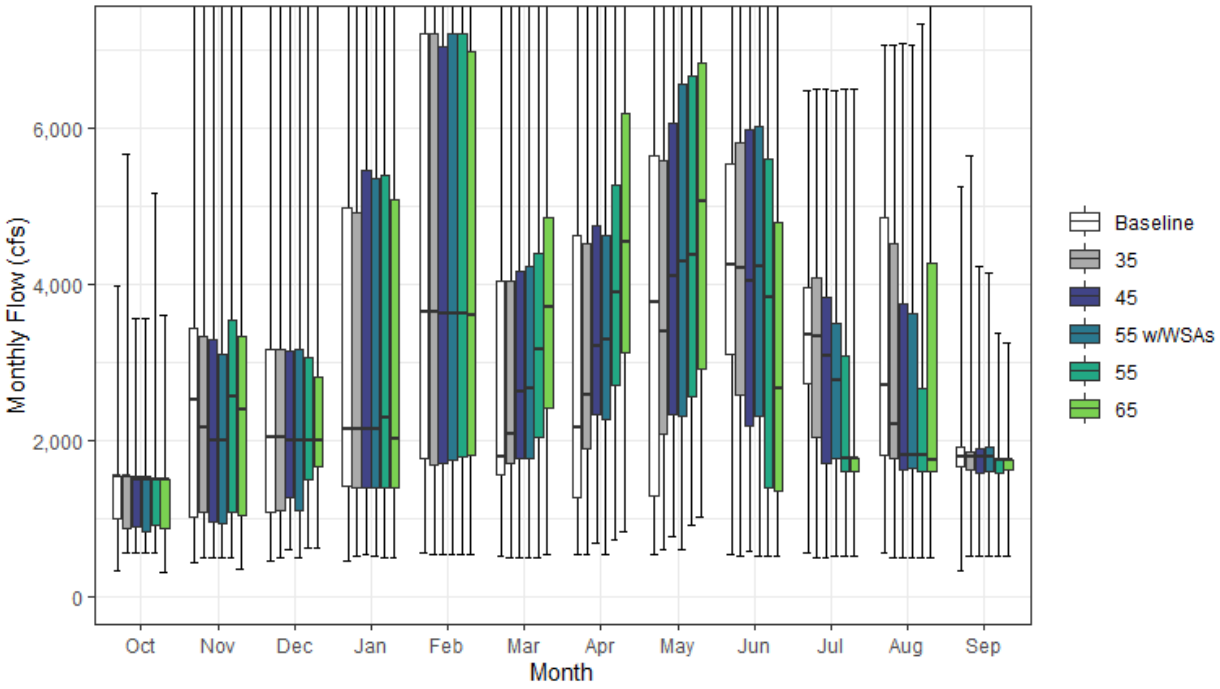

Figure H1a3-1. American River Streamflow below Folsom Reservoir Monthly Boxplot (cfs)

Table H1a3-1. 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													
0%	550	497	485	522	531	497	544	608	505	504	504	514	423
10%	675	652	743	721	1,368	1,262	1,497	1,354	1,243	1,582	1,503	1,330	1,083
25%	875	1,073	1,107	1,393	1,692	1,712	1,882	2,080	2,576	2,030	1,764	1,627	1,432
50%	1,539	2,170	2,026	2,131	3,637	2,088	2,581	3,381	4,202	3,325	2,195	1,792	2,018
75%	1,541	3,328	3,168	4,911	7,203	4,030	4,521	5,578	5,799	4,089	4,518	1,857	3,366
90%	1,792	4,552	8,884	9,650	11,266	8,402	6,938	8,663	7,491	4,594	5,386	2,853	4,310
100%	5,654	16,780	20,344	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,058	5,644	7,092
Mean	1,434	2,626	3,431	4,093	5,165	3,501	3,574	4,280	4,580	3,197	2,938	1,951	2,453
45													
0%	550	497	605	525	531	497	682	756	583	504	504	513	445
10%	675	660	773	762	1,382	1,394	1,800	1,713	1,025	1,526	1,241	1,331	1,120
25%	900	945	1,274	1,382	1,697	1,756	2,338	2,319	2,172	1,710	1,619	1,582	1,476
50%	1,503	2,001	1,999	2,131	3,619	2,628	3,206	4,106	4,034	3,068	1,800	1,792	2,084
75%	1,540	3,278	3,146	5,448	7,044	4,171	4,749	6,056	5,983	3,832	3,739	1,884	3,262
90%	1,832	4,173	8,846	9,647	11,266	8,402	6,927	8,666	8,379	4,580	5,397	2,646	4,203
100%	3,556	16,402	20,189	26,148	31,620	14,563	15,497	13,635	14,215	6,487	7,073	4,225	7,092
Mean	1,373	2,509	3,425	4,088	5,137	3,682	3,924	4,628	4,507	2,965	2,731	1,858	2,457
55 w/WSAs													
0%	550	497	485	522	531	497	544	608	504	504	504	513	423
10%	673	660	744	788	1,391	1,331	1,509	1,319	1,087	1,551	1,332	1,438	1,109
25%	829	936	1,101	1,392	1,750	1,771	2,265	2,315	2,300	1,765	1,640	1,600	1,425
50%	1,503	2,001	1,999	2,131	3,629	2,664	3,288	4,283	4,215	2,774	1,801	1,791	2,091
75%	1,540	3,096	3,160	5,352	7,203	4,225	4,617	6,557	6,009	3,502	3,610	1,915	3,306
90%	1,792	4,100	8,873	9,649	11,266	8,402	6,925	8,987	8,233	4,307	5,389	2,979	4,267
100%	3,556	13,935	20,158	26,148	31,620	14,563	15,497	13,631	14,215	6,483	7,059	4,140	6,997
Mean	1,371	2,431	3,418	4,097	5,227	3,698	3,917	4,678	4,584	2,816	2,683	1,892	2,455
55													
0%	550	497	611	495	531	497	722	904	509	504	504	514	468
10%	702	684	899	919	1,395	1,527	2,131	1,714	931	1,370	1,241	1,240	1,103
25%	907	1,079	1,484	1,397	1,789	2,045	2,703	2,564	1,385	1,598	1,591	1,582	1,465
50%	1,502	2,554	1,999	2,291	3,628	3,155	3,890	4,369	3,828	1,755	1,797	1,754	2,050
75%	1,503	3,528	3,057	5,397	7,203	4,384	5,257	6,654	5,591	3,072	2,656	1,754	3,269
90%	1,739	4,903	8,875	9,650	11,266	8,381	7,023	8,917	8,219	4,061	5,401	1,940	4,280
100%	5,153	16,684	21,650	26,148	31,620	14,563	15,497	13,641	14,215	6,487	7,331	3,376	7,060
Mean	1,378	2,820	3,525	4,222	5,175	3,968	4,374	4,912	4,120	2,326	2,504	1,668	2,466
65													
0%	314	344	611	495	531	542	822	1,022	504	504	504	514	495
10%	675	721	887	941	1,400	1,721	2,500	1,707	914	1,241	1,241	1,503	1,107
25%	867	1,035	1,652	1,394	1,813	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	3,597	3,708	4,530	5,052	2,655	1,755	1,754	1,753	2,080
75%	1,504	3,319	2,801	5,088	6,979	4,852	6,176	6,828	4,783	1,756	4,263	1,754	3,171
90%	1,911	4,605	8,743	9,561	10,555	8,462	7,734	9,269	6,651	3,310	5,872	1,840	4,252
100%	3,590	15,472	20,337	26,143	31,620	14,563	15,497	12,581	13,950	6,487	7,921	3,255	6,934
Mean	1,379	2,661	3,447	4,118	5,059	4,392	4,959	5,248	3,490	1,991	2,809	1,682	2,482

Table H1a3-2. 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												
C	1,238	1,547	1,255	978	1,147	1,297	1,532	1,895	2,115	1,435	1,315	1,145
D	1,223	2,046	1,902	1,421	2,512	1,988	2,232	2,429	2,912	2,534	2,229	1,658
BN	1,416	2,521	2,411	2,369	4,032	2,507	3,158	3,368	3,955	3,853	2,473	1,781
AN	1,313	3,430	3,218	4,958	6,326	4,779	3,402	4,395	4,891	3,752	2,967	2,933
W	1,754	3,370	6,444	8,460	9,507	5,904	5,981	7,441	7,388	3,986	4,605	2,312
All	1,434	2,626	3,431	4,093	5,165	3,501	3,574	4,280	4,580	3,197	2,938	1,951
45												
C	1,211	1,412	1,280	997	1,266	1,388	1,756	1,970	1,962	1,336	1,094	1,126
D	1,240	1,931	1,902	1,394	2,475	2,369	2,787	3,292	2,460	2,285	1,750	1,624
BN	1,419	2,210	2,350	2,267	3,931	2,771	3,745	3,851	4,064	3,386	2,359	1,753
AN	1,252	3,343	3,207	5,114	6,152	4,843	3,721	4,666	5,075	3,469	2,862	2,507
W	1,575	3,373	6,453	8,454	9,511	5,982	6,109	7,502	7,419	3,866	4,507	2,228
All	1,373	2,509	3,425	4,088	5,137	3,682	3,924	4,628	4,507	2,965	2,731	1,858
55 w/WSAs												
C	1,201	1,511	1,247	1,065	1,413	1,215	1,513	1,764	1,932	1,391	1,134	1,153
D	1,227	1,886	1,880	1,486	2,548	2,233	2,490	2,913	2,830	2,079	2,024	1,615
BN	1,419	2,262	2,349	2,228	4,100	2,870	3,766	4,191	3,903	3,174	2,298	1,822
AN	1,249	2,751	3,170	4,988	6,323	4,860	3,895	5,045	5,037	3,338	2,913	2,373
W	1,585	3,300	6,479	8,456	9,500	6,156	6,351	7,688	7,535	3,680	4,144	2,341
All	1,371	2,431	3,418	4,097	5,227	3,698	3,917	4,678	4,584	2,816	2,683	1,892
55												
C	1,242	1,586	1,317	1,185	1,428	1,557	1,887	2,042	1,594	1,163	1,073	1,117
D	1,240	2,304	2,020	1,535	2,501	2,722	3,323	3,365	1,876	1,603	1,694	1,599
BN	1,319	2,528	2,412	2,469	4,084	3,163	4,493	4,590	3,477	1,846	1,951	1,729
AN	1,220	3,593	3,309	5,173	5,980	5,128	4,375	5,223	4,433	2,379	2,805	1,758
W	1,653	3,732	6,598	8,541	9,504	6,215	6,394	7,655	7,397	3,758	4,089	1,938
All	1,378	2,820	3,525	4,222	5,175	3,968	4,374	4,912	4,120	2,326	2,504	1,668
65												
C	1,242	1,554	1,357	1,100	1,523	1,830	2,162	2,030	1,516	1,061	1,082	1,267
D	1,267	2,187	2,005	1,496	2,397	3,160	3,898	3,729	1,846	1,601	1,601	1,600
BN	1,343	2,416	2,362	2,403	3,750	3,751	5,281	5,054	2,931	1,732	1,793	1,729
AN	1,220	3,154	3,263	5,240	5,804	5,706	5,121	5,813	3,004	1,837	2,829	1,754
W	1,621	3,558	6,380	8,289	9,427	6,542	6,961	7,974	6,295	2,997	5,253	1,905
All	1,379	2,661	3,447	4,118	5,059	4,392	4,959	5,248	3,490	1,991	2,809	1,682

H1a3.2.2 American River above Confluence with Sacramento River (SWRCB American River)

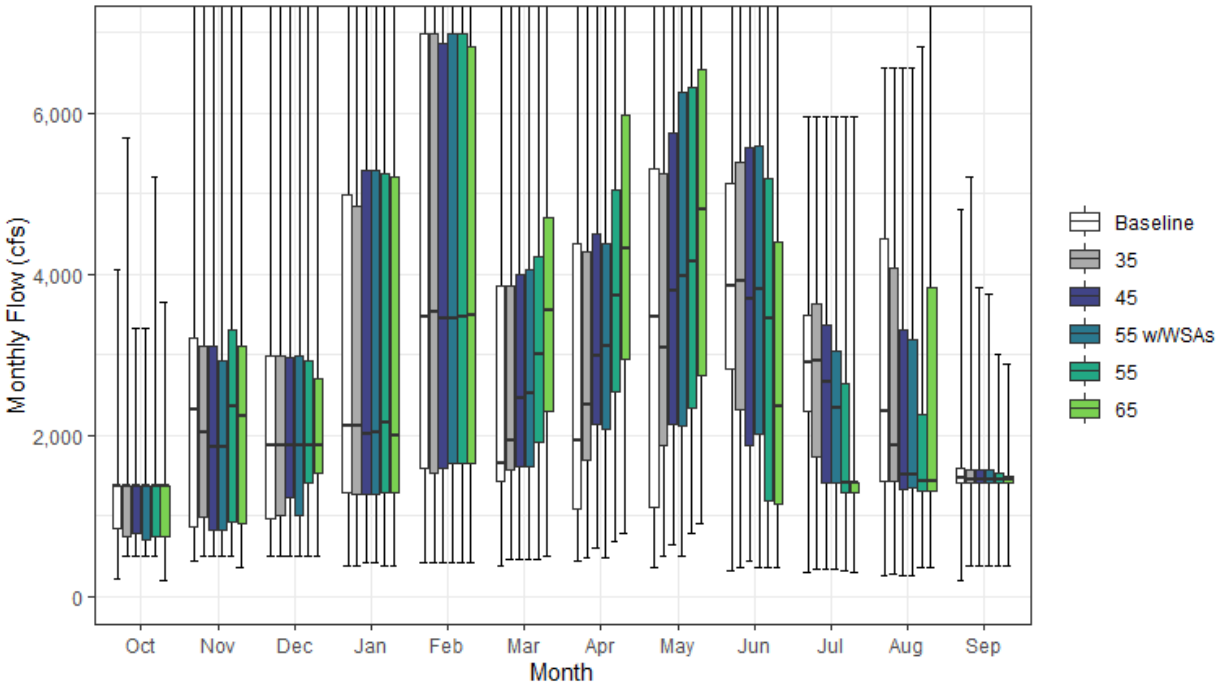

Figure H1a3-2. American River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-3. 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													
0%	500	500	500	387	416	449	470	502	363	347	275	375	338
10%	544	551	656	621	1,277	1,204	1,313	1,164	1,017	1,268	1,184	1,127	958
25%	743	990	1,012	1,276	1,535	1,559	1,692	1,874	2,309	1,734	1,426	1,403	1,284
50%	1,365	2,025	1,864	2,108	3,527	1,942	2,380	3,084	3,915	2,931	1,881	1,457	1,843
75%	1,367	3,111	2,990	4,845	6,982	3,849	4,285	5,242	5,379	3,624	4,076	1,571	3,186
90%	1,626	4,359	8,697	9,418	11,170	8,214	6,671	8,272	7,043	4,116	4,921	2,489	4,113
100%	5,696	16,510	20,022	26,156	31,483	14,478	15,081	13,158	13,649	5,960	6,550	5,208	6,892
Mean	1,272	2,470	3,303	3,991	5,053	3,357	3,377	4,011	4,228	2,784	2,567	1,670	2,291
45													
0%	500	500	500	417	416	449	603	645	439	347	250	375	359
10%	544	566	658	628	1,277	1,261	1,619	1,515	806	1,164	995	1,127	996
25%	773	823	1,223	1,275	1,596	1,619	2,131	2,128	1,879	1,405	1,319	1,398	1,324
50%	1,365	1,861	1,864	2,023	3,458	2,460	2,993	3,796	3,683	2,661	1,513	1,457	1,937
75%	1,366	3,105	2,970	5,292	6,870	3,988	4,508	5,760	5,562	3,373	3,316	1,572	3,082
90%	1,654	3,947	8,659	9,415	11,170	8,214	6,660	8,275	7,915	4,102	4,932	2,288	4,015
100%	3,322	16,138	19,869	26,156	31,483	14,479	15,081	13,157	13,649	5,960	6,564	3,825	6,892
Mean	1,219	2,361	3,307	3,991	5,029	3,538	3,722	4,358	4,161	2,566	2,372	1,586	2,299
55 w/WSAs													
0%	500	500	500	417	416	449	469	502	363	347	250	375	338
10%	544	566	656	656	1,279	1,219	1,351	1,135	855	1,215	1,010	1,224	982
25%	696	814	1,012	1,276	1,641	1,619	2,068	2,110	2,012	1,406	1,341	1,398	1,275
50%	1,365	1,861	1,864	2,042	3,458	2,509	3,103	3,969	3,808	2,344	1,516	1,457	1,945
75%	1,366	2,914	2,983	5,292	6,982	4,051	4,379	6,261	5,588	3,051	3,191	1,576	3,112
90%	1,614	3,870	8,686	9,417	11,170	8,214	6,657	8,614	7,772	3,836	4,923	2,612	4,079
100%	3,322	13,714	19,838	26,156	31,483	14,478	15,081	13,153	13,649	5,956	6,550	3,744	6,798
Mean	1,217	2,286	3,300	3,999	5,116	3,553	3,715	4,406	4,236	2,414	2,323	1,618	2,296
55													
0%	500	500	500	387	416	449	687	789	363	307	356	375	382
10%	570	585	809	803	1,281	1,397	1,961	1,545	731	1,124	995	1,040	976
25%	746	930	1,403	1,294	1,658	1,918	2,538	2,345	1,185	1,282	1,310	1,398	1,332
50%	1,365	2,351	1,864	2,150	3,462	3,007	3,727	4,159	3,445	1,404	1,431	1,455	1,904
75%	1,365	3,308	2,928	5,241	6,982	4,210	5,054	6,324	5,176	2,634	2,262	1,520	3,103
90%	1,581	4,665	8,692	9,418	11,170	8,193	6,796	8,522	7,759	3,636	4,935	1,600	4,087
100%	5,203	16,416	21,305	26,156	31,483	14,478	15,081	13,163	13,649	5,960	6,816	2,999	6,860
Mean	1,237	2,664	3,407	4,124	5,068	3,838	4,176	4,645	3,790	1,958	2,158	1,417	2,314
65													
0%	193	350	500	387	416	493	784	900	363	302	356	375	407
10%	544	612	796	810	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	2,237	1,864	1,991	3,492	3,554	4,323	4,810	2,358	1,404	1,426	1,455	1,929
75%	1,365	3,102	2,703	5,214	6,821	4,695	5,972	6,539	4,400	1,405	3,827	1,499	2,998
90%	1,730	4,402	8,558	9,412	10,598	8,287	7,447	8,903	6,218	2,865	5,394	1,569	4,064
100%	3,656	15,224	20,014	26,152	31,483	14,478	15,081	12,122	13,389	5,960	7,390	2,881	6,739
Mean	1,238	2,510	3,332	4,025	4,957	4,258	4,762	4,989	3,183	1,642	2,461	1,430	2,334

Table H1a3-4. 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												
C	1,084	1,413	1,155	870	1,062	1,178	1,361	1,697	1,858	1,158	1,049	953
D	1,068	1,893	1,800	1,305	2,390	1,846	2,049	2,211	2,618	2,140	1,892	1,427
BN	1,260	2,349	2,267	2,266	3,933	2,371	2,966	3,110	3,614	3,408	2,106	1,510
AN	1,152	3,270	3,086	4,913	6,230	4,620	3,196	4,112	4,522	3,296	2,574	2,587
W	1,578	3,212	6,296	8,349	9,371	5,747	5,758	7,096	6,945	3,525	4,161	1,966
All	1,272	2,470	3,303	3,991	5,053	3,357	3,377	4,011	4,228	2,784	2,567	1,670
45												
C	1,060	1,284	1,190	899	1,193	1,275	1,587	1,773	1,716	1,067	839	936
D	1,095	1,790	1,816	1,289	2,361	2,225	2,598	3,072	2,183	1,920	1,445	1,411
BN	1,270	2,050	2,219	2,170	3,836	2,635	3,543	3,592	3,724	2,960	1,997	1,497
AN	1,095	3,187	3,084	5,069	6,058	4,683	3,510	4,378	4,703	3,020	2,472	2,172
W	1,413	3,222	6,309	8,344	9,375	5,823	5,884	7,156	6,976	3,408	4,065	1,884
All	1,219	2,361	3,307	3,991	5,029	3,538	3,722	4,358	4,161	2,566	2,372	1,586
55 w/WSAs												
C	1,046	1,378	1,153	961	1,329	1,102	1,347	1,576	1,686	1,119	877	961
D	1,083	1,745	1,793	1,378	2,433	2,091	2,305	2,697	2,545	1,701	1,705	1,397
BN	1,268	2,103	2,218	2,130	4,003	2,730	3,564	3,920	3,563	2,746	1,938	1,559
AN	1,095	2,613	3,049	4,944	6,227	4,700	3,681	4,751	4,666	2,893	2,521	2,050
W	1,424	3,151	6,336	8,347	9,364	5,995	6,122	7,339	7,090	3,228	3,711	1,995
All	1,217	2,286	3,300	3,999	5,116	3,553	3,715	4,406	4,236	2,414	2,323	1,618
55												
C	1,095	1,451	1,226	1,082	1,352	1,453	1,720	1,849	1,361	903	820	927
D	1,108	2,151	1,929	1,431	2,389	2,597	3,148	3,160	1,629	1,274	1,402	1,397
BN	1,187	2,362	2,282	2,372	3,989	3,044	4,300	4,334	3,163	1,499	1,622	1,496
AN	1,087	3,433	3,188	5,127	5,890	4,981	4,159	4,926	4,076	1,976	2,430	1,474
W	1,498	3,571	6,453	8,430	9,368	6,067	6,167	7,309	6,954	3,305	3,658	1,621
All	1,237	2,664	3,407	4,124	5,068	3,838	4,176	4,645	3,790	1,958	2,158	1,417
65												
C	1,096	1,419	1,266	1,001	1,449	1,722	1,987	1,838	1,286	807	829	1,069
D	1,133	2,039	1,917	1,395	2,296	3,030	3,715	3,521	1,600	1,272	1,315	1,397
BN	1,213	2,253	2,234	2,311	3,665	3,627	5,082	4,801	2,645	1,395	1,484	1,496
AN	1,087	3,001	3,146	5,201	5,722	5,558	4,915	5,541	2,706	1,475	2,457	1,474
W	1,467	3,404	6,243	8,183	9,292	6,392	6,745	7,644	5,886	2,582	4,791	1,589
All	1,238	2,510	3,332	4,025	4,957	4,258	4,762	4,989	3,183	1,642	2,461	1,430

H1a3.2.3 Antelope Creek above Confluence with Sacramento River (SWRCB Antelope Creek)

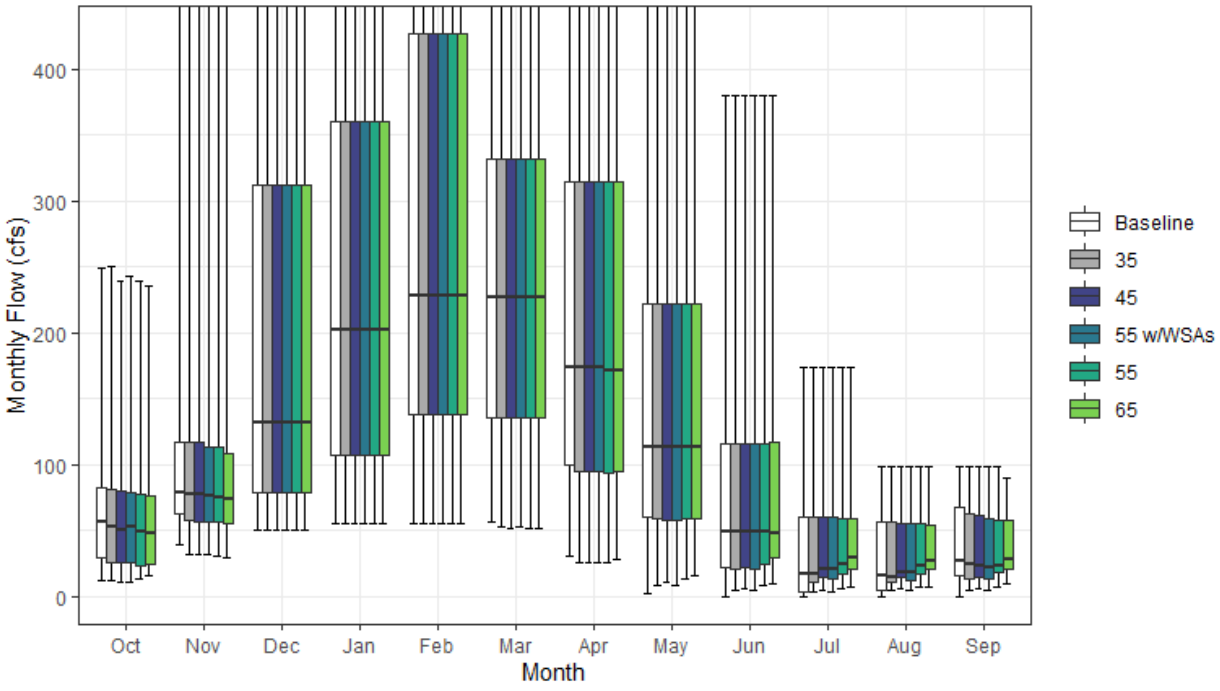

Figure H1a3-3. Antelope Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-5. 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													
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													
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													
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													
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													
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 H1a3-6. 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												
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												
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												
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												
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												
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

H1a3.2.4 Battle Creek above Confluence with Sacramento River (SWRCB Battle Creek)

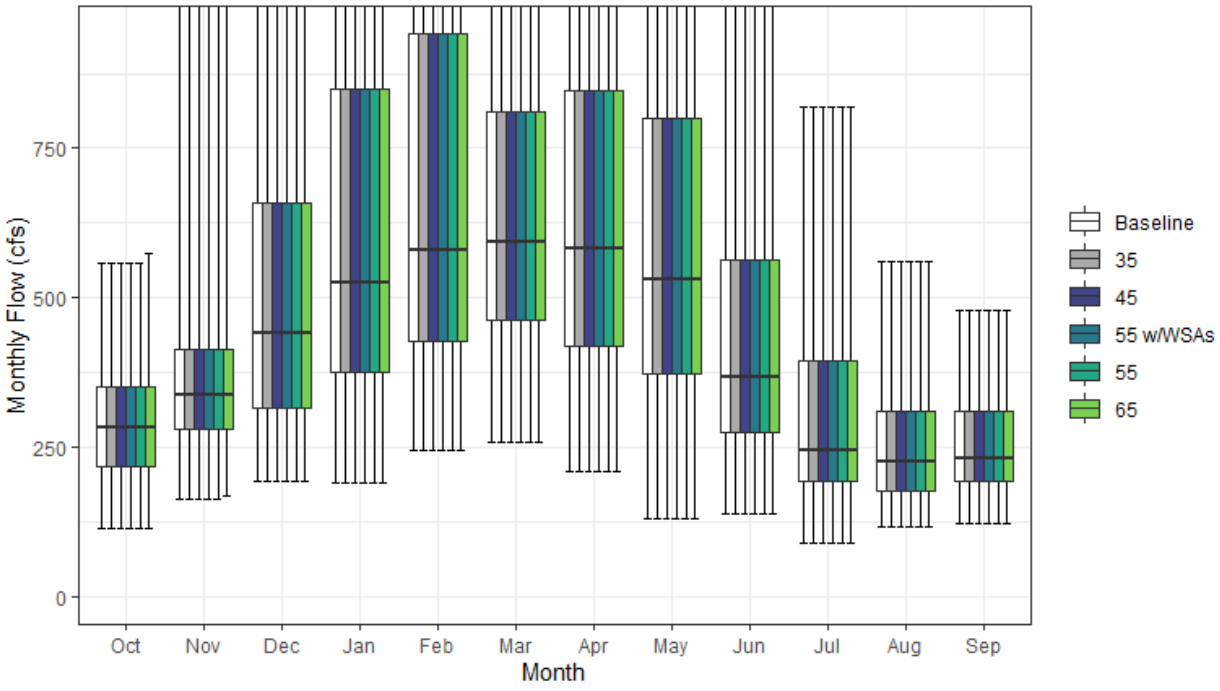

Figure H1a3-4. Battle Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-7. 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													
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													
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													
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													
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													
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 H1a3-8. 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												
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												
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												
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												
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												
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

H1a3.2.5 Bear River below Camp Far West Reservoir (SWRCB Camp Far West)

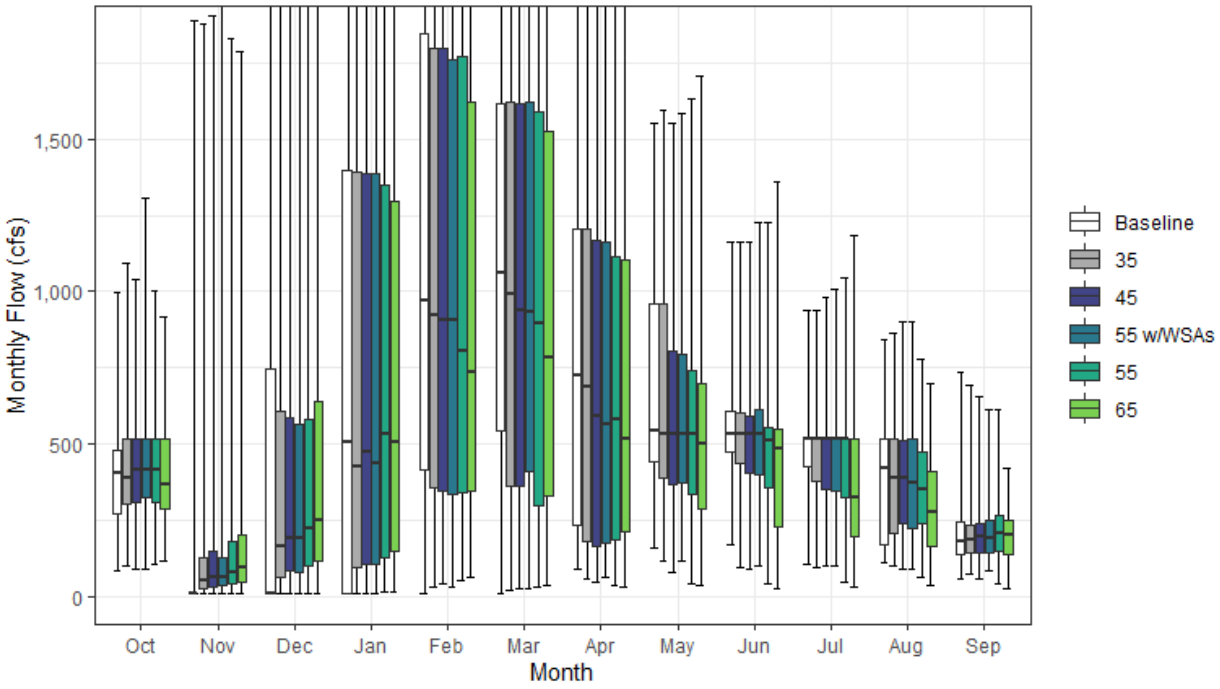

Figure H1a3-5. Bear River Streamflow below Camp Far West Reservoir Monthly Boxplot (cfs)

Table H1a3-9. 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													
0%	97	10	10	10	33	20	57	115	93	95	99	72	74
10%	246	14	29	48	114	117	120	275	292	277	152	116	144
25%	300	25	63	93	356	359	180	391	438	377	204	140	218
50%	386	50	163	423	923	991	687	530	530	515	388	186	389
75%	515	126	606	1,395	1,800	1,620	1,204	958	603	515	515	232	679
90%	515	513	2,129	2,668	3,029	2,604	1,693	1,197	911	692	515	304	863
100%	1,091	1,878	3,822	4,748	6,332	4,154	3,723	1,597	1,162	939	866	691	1,227
Mean	399	186	601	975	1,282	1,169	840	643	549	481	374	204	463
45													
0%	90	10	10	11	42	25	45	76	90	99	89	57	75
10%	253	18	38	61	146	109	108	221	264	267	165	116	141
25%	308	33	83	105	345	361	164	366	404	349	240	144	211
50%	417	64	193	475	904	938	592	530	530	515	386	199	371
75%	515	151	584	1,388	1,796	1,618	1,168	807	591	515	510	239	675
90%	533	552	2,117	2,668	3,052	2,604	1,700	1,090	924	682	527	302	851
100%	1,037	1,903	3,857	4,629	6,332	4,139	3,723	1,551	1,162	983	901	655	1,236
Mean	409	203	602	970	1,269	1,149	805	598	537	476	375	208	457
55 w/WSAs													
0%	91	10	10	10	33	25	60	117	102	102	90	81	78
10%	252	16	31	51	124	134	112	248	280	255	152	112	146
25%	323	33	80	106	334	412	174	372	400	345	222	144	214
50%	414	65	189	436	904	931	565	530	530	515	370	189	372
75%	515	128	564	1,388	1,760	1,619	1,164	795	611	515	515	251	655
90%	549	521	2,086	2,670	3,024	2,604	1,676	1,085	906	655	527	300	844
100%	1,306	2,813	3,868	4,643	6,332	4,154	3,764	1,586	1,226	1,009	901	613	1,231
Mean	418	215	574	954	1,272	1,154	805	598	542	477	359	207	455
55													
0%	106	10	10	13	51	31	34	41	41	45	61	39	67
10%	260	22	46	74	179	122	108	188	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	1,117	739	555	515	473	266	653
90%	565	532	2,133	2,692	2,891	2,509	1,676	1,055	918	638	532	308	842
100%	1,005	1,830	3,689	4,612	6,332	4,139	3,723	1,631	1,226	1,046	776	613	1,221
Mean	419	207	605	958	1,249	1,108	790	574	513	461	352	213	448
65													
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	88	118
25%	285	47	117	147	345	332	212	286	226	194	166	138	186
50%	367	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	432	2,049	2,576	2,786	2,313	1,719	1,020	785	711	556	301	809
100%	915	1,788	3,339	4,638	5,968	4,172	3,711	1,708	1,360	1,187	700	420	1,218
Mean	399	205	599	927	1,204	1,050	765	539	449	382	307	197	422

Table H1a3-10. 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												
C	392	68	106	102	255	217	144	256	302	305	188	127
D	351	85	229	285	483	667	359	432	431	407	268	161
BN	360	73	345	491	1,045	1,099	746	545	532	475	383	184
AN	404	215	533	1,356	1,692	1,502	924	894	685	564	408	260
W	461	383	1,326	2,102	2,401	1,957	1,591	964	724	600	531	268
All	399	186	601	975	1,282	1,169	840	643	549	481	374	204
45												
C	403	74	122	127	263	213	128	229	271	289	198	129
D	358	92	249	285	482	633	303	393	401	393	296	175
BN	379	83	343	500	1,005	1,067	691	511	523	475	370	197
AN	406	229	550	1,321	1,662	1,483	882	776	691	577	410	251
W	471	420	1,303	2,077	2,394	1,945	1,575	928	724	599	516	266
All	409	203	602	970	1,269	1,149	805	598	537	476	375	208
55 w/WSAs												
C	403	70	112	110	261	226	143	248	296	300	192	127
D	355	90	242	282	467	663	322	415	416	391	287	166
BN	389	79	319	471	1,037	1,054	692	510	518	472	383	202
AN	415	240	535	1,296	1,665	1,478	865	763	683	573	376	239
W	492	458	1,240	2,066	2,393	1,942	1,561	911	725	601	480	269
All	418	215	574	954	1,272	1,154	805	598	542	477	359	207
55												
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	400	95	322	505	980	993	661	498	502	461	342	219
AN	426	239	555	1,288	1,593	1,432	845	726	662	576	382	246
W	491	408	1,295	2,048	2,370	1,926	1,558	918	728	606	478	270
All	419	207	605	958	1,249	1,108	790	574	513	461	352	213
65												
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	176
BN	385	115	345	503	921	818	639	482	449	343	266	191
AN	384	233	564	1,263	1,407	1,371	759	691	599	461	379	233
W	481	388	1,230	1,944	2,320	1,879	1,546	898	699	599	455	254
All	399	205	599	927	1,204	1,050	765	539	449	382	307	197

H1a3.2.6 Bear River above Confluence with Feather River (SWRCB Bear River)

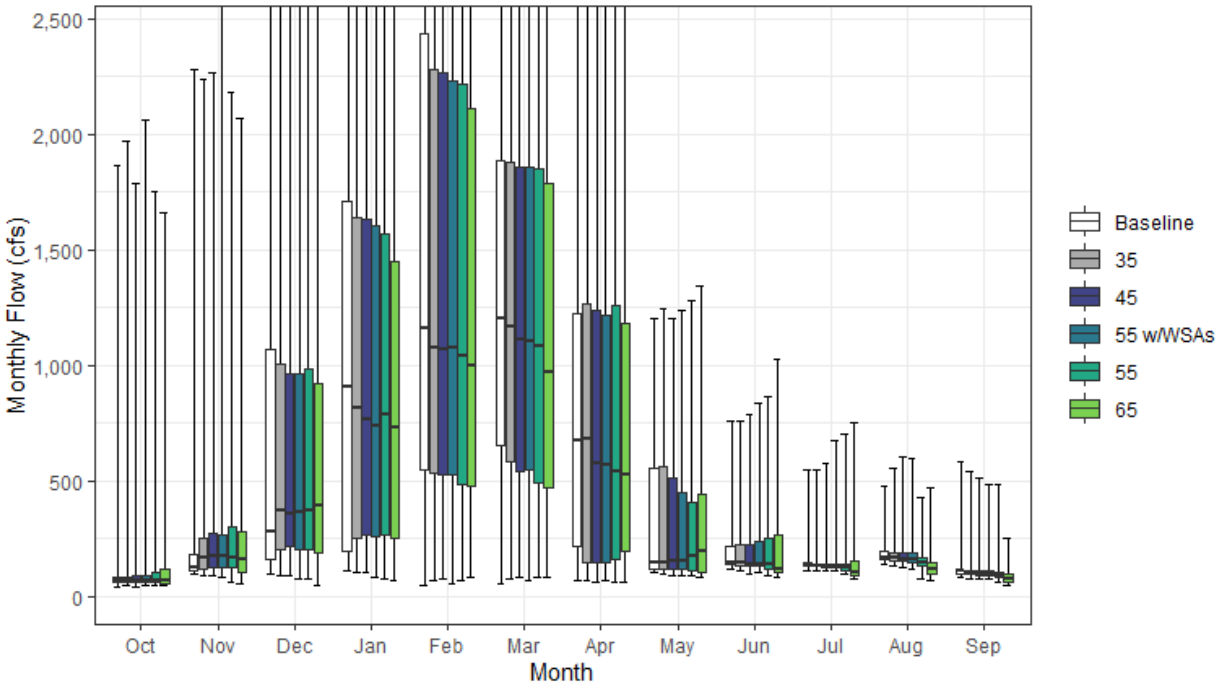

Figure H1a3-6. Bear River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a3-11. 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													
0%	45	90	88	104	66	75	69	93	107	111	130	79	77
10%	55	103	137	198	221	197	89	106	126	122	146	90	134
25%	63	118	201	252	534	579	146	117	135	129	154	94	193
50%	68	164	368	817	1,073	1,165	684	145	145	134	165	101	350
75%	82	251	1,002	1,637	2,282	1,877	1,269	562	220	142	185	108	693
90%	112	651	2,661	3,259	3,742	3,033	1,811	811	518	293	234	125	864
100%	1,968	2,239	4,300	6,013	7,651	5,444	4,282	1,247	757	546	554	543	1,295
Mean	98	309	871	1,325	1,688	1,431	858	332	226	170	187	117	456
45													
0%	42	90	88	101	75	81	64	90	94	110	128	73	78
10%	56	105	146	201	247	196	90	103	119	119	142	86	141
25%	63	124	213	269	525	542	146	118	130	125	150	90	188
50%	69	173	354	763	1,065	1,109	578	153	142	132	160	98	350
75%	88	272	964	1,630	2,263	1,859	1,240	511	225	141	185	108	684
90%	115	703	2,640	3,258	3,731	3,033	1,845	768	537	297	246	136	853
100%	1,789	2,262	4,327	6,012	7,645	5,430	4,306	1,204	789	574	601	509	1,298
Mean	98	322	868	1,316	1,671	1,410	830	315	229	174	186	115	451
55 w/WSAs													
0%	44	79	76	84	53	70	67	92	101	107	120	78	73
10%	56	99	148	200	246	201	91	104	121	118	138	84	139
25%	63	124	203	257	529	545	145	117	132	125	148	91	185
50%	69	172	365	735	1,073	1,105	570	151	142	132	160	99	346
75%	90	268	959	1,607	2,230	1,858	1,219	446	237	142	185	108	680
90%	118	613	2,639	3,251	3,805	3,033	1,848	748	508	325	266	149	845
100%	2,063	3,143	4,337	6,022	7,651	5,444	4,370	1,237	835	676	597	484	1,307
Mean	102	332	840	1,299	1,673	1,415	833	317	234	181	184	113	450
55													
0%	44	58	73	73	71	83	62	86	91	94	78	62	74
10%	55	91	145	197	259	177	100	97	104	103	123	74	135
25%	62	122	202	263	483	489	163	113	117	111	135	83	176
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	669	2,574	3,228	3,635	2,955	1,847	744	536	362	277	154	849
100%	1,752	2,184	4,141	6,022	7,629	5,430	4,331	1,280	862	705	429	484	1,290
Mean	100	313	855	1,288	1,632	1,368	825	318	229	178	173	108	442
65													
0%	46	55	50	67	80	84	58	85	85	77	67	47	71
10%	51	77	127	189	244	193	96	94	93	87	83	54	138
25%	57	102	186	251	476	470	191	107	102	90	99	62	174
50%	71	162	395	727	997	966	523	196	120	100	116	72	316
75%	117	279	919	1,452	2,109	1,784	1,182	445	264	154	143	99	628
90%	140	535	2,428	3,142	3,522	2,825	1,847	763	413	378	310	174	815
100%	1,657	2,067	4,026	5,850	7,177	5,462	4,343	1,342	1,025	754	471	250	1,288
Mean	103	283	813	1,224	1,544	1,305	802	326	211	171	154	92	421

Table H1a3-12. 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												
C	73	162	275	268	427	339	124	108	128	133	173	100
D	70	195	445	465	704	856	350	158	136	148	184	112
BN	72	182	529	741	1,421	1,322	755	203	174	141	156	95
AN	72	348	767	1,857	2,265	1,817	928	534	306	194	198	137
W	158	535	1,761	2,677	3,020	2,350	1,659	581	346	216	213	135
All	98	309	871	1,325	1,688	1,431	858	332	226	170	187	117
45												
C	75	164	285	288	428	334	120	109	122	127	163	93
D	70	198	457	461	699	821	305	154	134	144	180	109
BN	75	188	522	744	1,375	1,290	704	199	178	154	161	97
AN	75	360	781	1,817	2,232	1,798	889	449	319	209	198	136
W	154	568	1,735	2,651	3,011	2,338	1,651	561	353	220	214	132
All	98	322	868	1,316	1,671	1,410	830	315	229	174	186	115
55 w/WSAs												
C	75	159	274	270	426	346	124	108	127	131	168	97
D	71	196	451	456	683	851	317	165	133	143	180	109
BN	78	185	501	718	1,409	1,278	710	195	175	155	167	100
AN	76	368	763	1,789	2,230	1,793	892	449	326	218	190	119
W	164	604	1,672	2,639	3,008	2,336	1,644	564	365	237	204	132
All	102	332	840	1,299	1,673	1,415	833	317	234	181	184	113
55												
C	74	154	285	284	394	326	133	110	117	116	146	85
D	71	193	461	430	682	754	301	151	120	132	156	94
BN	80	190	491	736	1,326	1,217	692	208	172	157	165	106
AN	81	360	774	1,771	2,151	1,748	874	428	315	221	186	115
W	157	543	1,712	2,609	2,975	2,319	1,642	579	370	241	201	129
All	100	313	855	1,288	1,632	1,368	825	318	229	178	173	108
65												
C	74	124	282	289	408	343	148	117	118	110	130	77
D	73	185	450	400	639	715	288	166	113	121	135	79
BN	83	181	481	700	1,211	1,038	660	219	166	140	138	90
AN	89	318	744	1,699	1,908	1,682	772	430	257	199	172	95
W	160	492	1,601	2,468	2,880	2,271	1,631	579	341	248	185	109
All	103	283	813	1,224	1,544	1,305	802	326	211	171	154	92

H1a3.2.7 Big Chico Creek above Confluence with Sacramento River (SWRCB Big Chico)

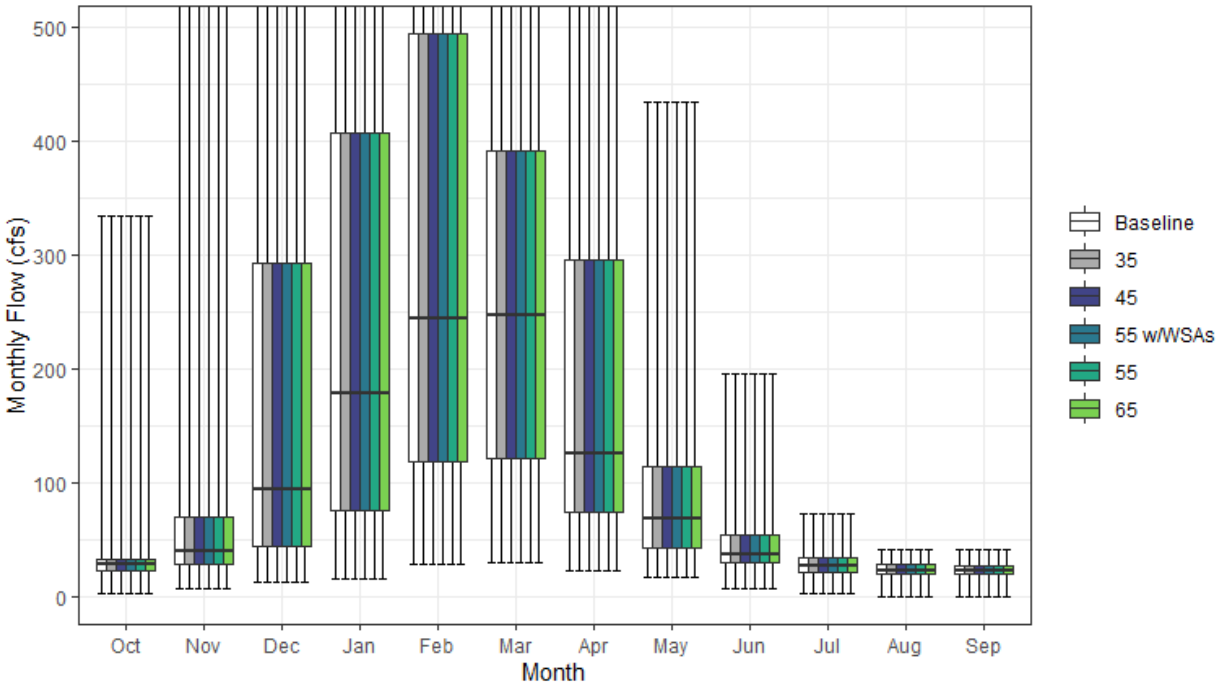

Figure H1a3-7. Big Chico Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-13. 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													
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													
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													
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													
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													
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 H1a3-14. 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												
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												
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												
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												
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												
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

H1a3.2.8 Butte Creek above Butte Slough (SWRCB Butte Creek)

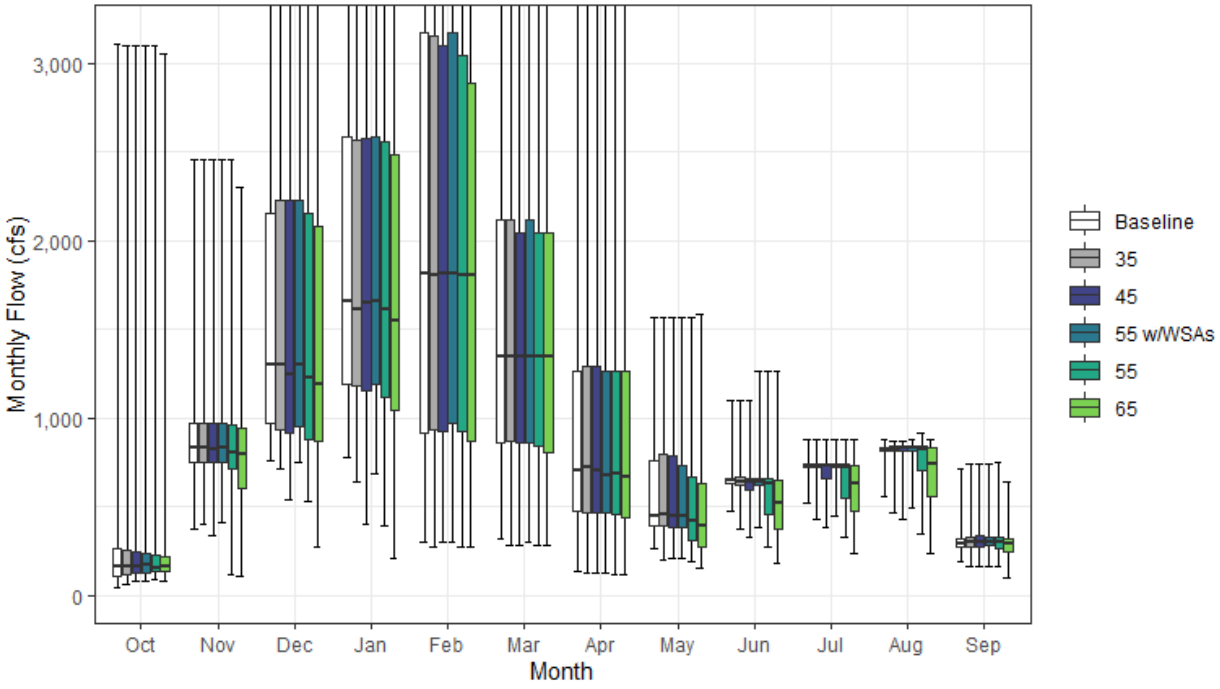

Figure H1a3-8. Butte Creek Streamflow above Butte Slough Monthly Boxplot (cfs)

Table H1a3-15. 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													
0%	64	400	713	644	271	281	128	203	372	425	465	162	290
10%	103	693	831	867	528	531	327	290	446	516	569	211	466
25%	119	753	934	1,176	934	866	466	389	623	720	813	275	563
50%	162	836	1,300	1,609	1,808	1,341	726	457	641	728	826	296	713
75%	253	972	2,228	2,565	3,156	2,114	1,286	793	662	738	836	329	967
90%	361	1,244	3,233	3,864	4,672	3,015	1,757	1,121	828	753	844	354	1,121
100%	3,099	2,453	5,343	7,875	8,501	6,622	3,482	1,569	1,096	879	872	738	1,519
Mean	230	922	1,706	2,091	2,309	1,614	924	607	650	698	788	305	772
45													
0%	77	337	538	397	304	280	130	205	324	387	429	166	306
10%	108	647	811	869	529	531	327	274	441	511	564	212	455
25%	129	746	911	1,154	926	856	464	384	595	659	810	276	558
50%	159	822	1,241	1,651	1,810	1,342	701	446	637	728	830	302	690
75%	247	972	2,222	2,575	3,099	2,038	1,293	786	660	738	837	332	964
90%	361	1,244	3,223	3,864	4,672	3,015	1,755	1,107	806	753	844	357	1,133
100%	3,099	2,457	5,340	7,834	8,501	6,657	3,502	1,568	1,096	879	872	737	1,497
Mean	232	907	1,689	2,072	2,292	1,612	919	593	635	686	782	308	765
55 w/WSAs													
0%	77	414	752	684	304	303	130	205	384	444	489	160	304
10%	104	698	841	899	528	532	325	282	456	545	629	232	487
25%	126	753	955	1,187	966	857	461	385	619	720	814	278	576
50%	169	832	1,300	1,656	1,811	1,341	680	442	641	729	830	301	700
75%	238	972	2,227	2,582	3,169	2,114	1,264	729	661	738	838	329	963
90%	360	1,293	3,236	3,865	4,672	3,015	1,703	1,108	759	753	845	349	1,123
100%	3,099	2,457	5,343	7,885	8,462	6,622	3,482	1,568	1,261	879	881	737	1,518
Mean	232	927	1,716	2,102	2,315	1,614	904	581	646	701	795	308	771
55													
0%	85	116	531	391	270	280	119	185	268	330	345	161	276
10%	110	549	779	804	513	531	323	247	377	466	536	193	448
25%	131	716	879	1,115	926	838	458	310	459	544	704	265	534
50%	157	802	1,228	1,608	1,808	1,341	683	417	628	726	826	298	676
75%	231	960	2,148	2,557	3,043	2,038	1,264	667	658	738	839	330	958
90%	341	1,293	3,188	3,865	4,582	3,015	1,751	1,107	756	753	846	352	1,131
100%	3,094	2,456	5,340	7,785	8,462	6,624	3,501	1,568	1,261	879	910	746	1,485
Mean	229	876	1,651	2,037	2,261	1,607	906	550	593	653	752	303	746
65													
0%	76	110	270	204	269	281	113	152	181	238	239	96	238
10%	109	342	635	762	459	509	317	224	303	384	401	183	400
25%	131	604	867	1,047	868	808	440	272	372	477	554	247	504
50%	160	791	1,190	1,547	1,807	1,345	665	387	516	630	738	289	627
75%	219	939	2,081	2,485	2,885	2,038	1,264	626	647	728	831	318	898
90%	315	1,142	3,125	3,778	4,578	3,014	1,746	1,069	751	753	852	343	1,131
100%	3,051	2,300	5,334	7,075	8,462	6,623	3,501	1,584	1,261	879	881	635	1,427
Mean	222	803	1,593	1,964	2,198	1,597	894	505	531	593	684	285	713

Table H1a3-16. 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												
C	152	731	1,177	1,165	1,104	880	311	286	452	521	586	212
D	166	860	1,437	1,215	1,389	1,212	613	424	617	717	823	339
BN	196	844	1,267	1,725	2,112	1,421	949	564	661	729	827	314
AN	212	876	1,576	2,707	3,104	1,884	1,049	731	678	734	828	336
W	349	1,137	2,514	3,213	3,434	2,313	1,414	892	763	745	830	313
All	230	922	1,706	2,091	2,309	1,614	924	607	650	698	788	305
45												
C	148	715	1,164	1,152	1,087	881	311	270	436	501	557	206
D	176	845	1,413	1,184	1,345	1,209	594	393	591	680	813	341
BN	198	819	1,244	1,691	2,092	1,411	954	523	641	721	825	317
AN	214	869	1,554	2,677	3,100	1,886	1,043	732	678	736	833	347
W	349	1,126	2,506	3,212	3,433	2,314	1,411	900	754	747	832	318
All	232	907	1,689	2,072	2,292	1,612	919	593	635	686	782	308
55 w/WSAs												
C	152	749	1,204	1,194	1,122	883	312	294	469	534	621	221
D	169	868	1,445	1,222	1,397	1,211	588	412	606	714	815	341
BN	197	844	1,275	1,736	2,119	1,421	934	533	661	728	828	318
AN	216	895	1,601	2,724	3,106	1,884	1,011	680	678	736	834	347
W	348	1,132	2,513	3,215	3,433	2,313	1,390	850	747	748	837	308
All	232	927	1,716	2,102	2,315	1,614	904	581	646	701	795	308
55												
C	154	634	1,073	1,060	1,000	861	302	240	377	452	495	199
D	172	820	1,368	1,151	1,313	1,203	584	338	500	592	729	323
BN	188	791	1,216	1,662	2,069	1,409	925	476	602	689	802	322
AN	210	856	1,520	2,639	3,068	1,884	1,037	682	648	734	837	347
W	344	1,107	2,495	3,205	3,428	2,316	1,401	865	750	749	840	313
All	229	876	1,651	2,037	2,261	1,607	906	550	593	653	752	303
65												
C	165	514	951	946	927	825	292	225	325	398	415	182
D	177	786	1,351	1,127	1,301	1,199	573	277	389	498	609	299
BN	174	699	1,137	1,575	1,913	1,400	903	418	483	583	687	295
AN	190	801	1,466	2,520	2,986	1,885	1,015	615	573	668	788	318
W	327	1,037	2,452	3,146	3,400	2,311	1,398	834	759	745	839	310
All	222	803	1,593	1,964	2,198	1,597	894	505	531	593	684	285

H1a3.2.9 Cache Creek below Clear Lake (SWRCB Clear Lake)

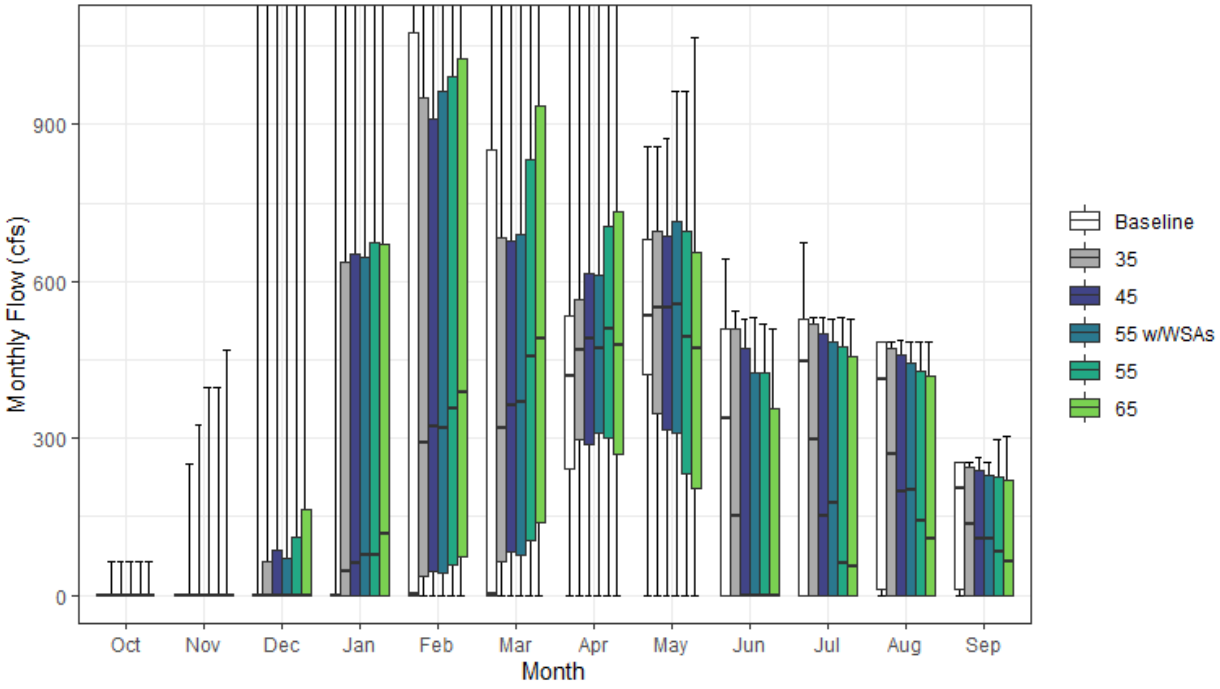

Figure H1a3-9. Cache Creek Streamflow below Clear Lake Monthly Boxplot (cfs)

Table H1a3-17. 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													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	0	105	107	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	150	298	270	135	150
75%	0	0	64	638	952	685	564	696	510	517	473	244	366
90%	1	1	370	1,245	2,751	2,059	1,275	805	510	529	485	253	567
100%	63	252	2,755	5,209	7,387	6,042	3,128	858	543	530	486	254	967
Mean	1	5	129	478	824	680	565	507	217	249	239	126	241
45													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	1	118	110	0	0	0	0	19
25%	0	0	0	0	46	82	287	318	0	0	0	0	73
50%	0	0	0	63	321	363	490	550	0	152	200	109	140
75%	0	0	86	653	911	676	617	686	472	500	459	238	370
90%	1	1	394	1,149	2,644	2,059	1,128	823	510	529	485	253	569
100%	63	324	2,558	5,209	7,378	6,042	3,128	873	528	531	486	263	980
Mean	1	7	133	498	826	704	582	507	196	235	221	118	241
55 w/WSAs													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	1	103	103	0	0	0	0	17
25%	0	0	0	0	42	78	309	310	0	0	0	0	66
50%	0	0	0	77	321	370	472	555	0	176	202	109	149
75%	0	0	70	646	965	689	613	715	426	486	445	229	365
90%	1	1	387	1,331	2,641	2,059	1,142	849	510	529	485	253	572
100%	64	396	2,358	5,209	7,331	6,042	3,128	963	531	530	485	253	999
Mean	1	8	131	499	828	698	586	517	190	231	219	117	241
55													
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	301	232	0	0	0	0	68
50%	0	0	0	77	355	456	509	493	0	61	143	83	143
75%	0	1	112	673	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	963	518	530	485	297	1,014
Mean	1	11	138	520	838	733	603	482	178	213	204	108	241
65													
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	140	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	1,249	828	505	524	480	252	596
100%	65	469	2,227	5,209	7,270	6,042	3,128	1,067	511	529	485	305	1,076
Mean	2	15	149	545	862	769	607	443	156	197	185	100	241

Table H1a3-18. 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												
C	0	0	0	48	64	35	140	186	0	0	0	0
D	0	0	21	37	129	192	403	488	32	45	57	35
BN	0	0	50	147	421	236	450	543	109	178	191	107
AN	0	1	59	292	865	632	644	575	349	418	395	206
W	3	15	355	1,315	1,976	1,682	952	644	486	510	467	240
All	1	5	129	478	824	680	565	507	217	249	239	126
45												
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	901	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												
C	0	0	0	48	65	36	132	173	0	0	0	0
D	0	1	21	40	162	229	392	465	25	47	53	34
BN	0	0	52	178	440	283	487	526	76	142	150	88
AN	0	1	62	339	939	670	678	604	266	362	342	182
W	3	25	359	1,343	1,926	1,668	996	700	455	494	452	232
All	1	8	131	499	828	698	586	517	190	231	219	117
55												
C	1	0	1	60	79	66	118	137	0	0	0	0
D	0	1	24	43	197	295	386	403	24	43	43	26
BN	0	1	57	217	455	333	526	455	51	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	213	204	108
65												
C	1	1	3	69	85	80	107	132	0	0	2	1
D	1	6	29	53	221	343	362	325	16	29	30	19
BN	1	2	72	263	504	401	514	377	35	97	103	57
AN	0	8	64	380	1,033	839	745	555	181	275	259	147
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	197	185	100

H1a3.2.10 Cache Creek above Yolo Bypass (SWRCB Cache Creek)

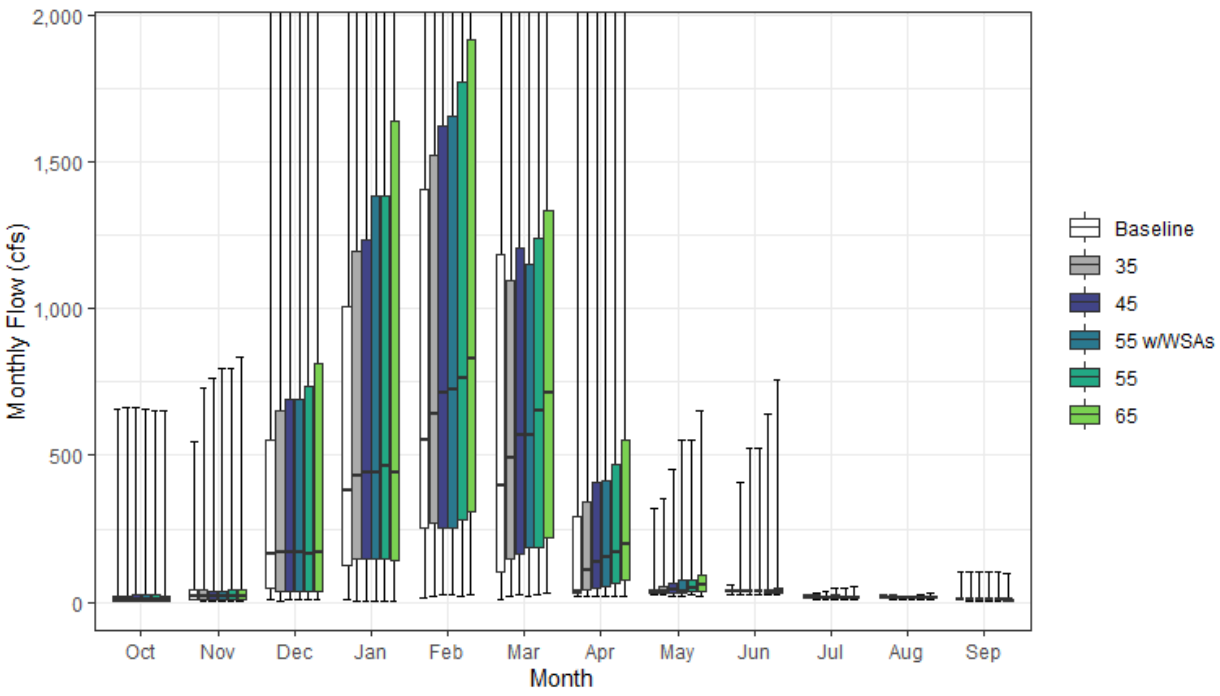

Figure H1a3-10. Cache Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a3-19. 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													
0%	2	4	5	5	18	22	19	24	26	11	10	4	16
10%	4	8	18	53	63	62	31	29	29	15	14	7	44
25%	6	10	40	147	268	148	41	33	36	17	16	9	88
50%	10	19	169	428	642	494	107	37	37	18	18	9	161
75%	23	40	654	1,198	1,522	1,095	341	51	39	19	19	9	380
90%	37	122	1,147	2,292	3,930	2,473	1,323	156	41	20	20	10	623
100%	661	731	4,387	6,679	11,408	8,616	3,815	351	409	30	23	103	1,242
Mean	26	48	438	975	1,385	960	395	66	42	18	17	11	261
45													
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	256	165	51	34	35	17	16	8	94
50%	9	20	168	440	716	567	137	43	37	18	17	9	172
75%	24	40	690	1,235	1,623	1,205	410	63	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	10,969	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													
0%	2	4	7	5	23	21	19	23	25	10	9	3	17
10%	4	7	18	53	65	65	31	29	29	15	13	7	47
25%	6	11	39	148	253	186	56	34	35	17	16	8	91
50%	9	19	168	440	722	567	152	38	37	18	18	9	167
75%	24	39	689	1,385	1,654	1,153	416	78	39	19	19	9	385
90%	35	118	1,258	2,513	3,868	2,417	1,138	216	57	26	20	10	622
100%	661	799	4,080	6,677	10,447	8,616	3,815	552	526	46	21	103	1,288
Mean	27	48	452	1,014	1,368	957	417	87	47	19	17	11	266
55													
0%	2	4	7	5	22	27	19	24	26	9	8	3	17
10%	4	7	17	55	65	77	33	30	29	14	11	6	49
25%	6	10	37	147	281	185	62	35	34	15	14	7	101
50%	9	20	167	464	764	653	167	51	37	17	17	9	198
75%	23	41	735	1,385	1,770	1,242	469	78	40	19	19	9	417
90%	35	118	1,438	2,721	3,837	2,210	1,094	242	59	28	20	11	632
100%	655	798	4,081	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													
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	59	37	17	16	9	212
75%	22	42	810	1,637	1,915	1,333	554	92	47	20	18	9	453
90%	35	135	1,700	3,204	3,784	2,440	1,243	286	70	33	20	12	661
100%	651	833	3,921	6,655	9,907	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 H1a3-20. 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												
C	12	12	147	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	1,093	1,674	946	338	87	39	19	19	9
W	46	94	888	2,192	2,901	2,165	939	101	43	19	18	10
All	26	48	438	975	1,385	960	395	66	42	18	17	11
45												
C	12	11	146	254	295	167	37	33	29	17	17	9
D	10	29	260	214	469	389	134	53	37	17	15	11
BN	27	20	224	497	856	498	259	52	64	17	15	13
AN	25	54	386	1,168	1,735	978	357	110	41	21	19	9
W	46	96	934	2,205	2,842	2,128	946	129	48	20	18	10
All	26	48	454	994	1,388	972	416	80	45	18	17	11
55 w/WSAs												
C	12	12	146	250	288	156	33	31	29	17	17	9
D	10	30	259	214	456	376	124	51	37	17	15	11
BN	27	21	223	497	861	498	242	49	64	17	15	13
AN	24	53	389	1,180	1,698	964	363	115	43	22	19	9
W	47	96	927	2,269	2,802	2,096	968	156	54	21	18	10
All	27	48	452	1,014	1,368	957	417	87	47	19	17	11
55												
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	316	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												
C	12	9	143	284	335	194	48	37	29	18	17	9
D	10	33	282	243	569	519	191	72	38	17	14	11
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	2,582	2,839	2,051	992	187	62	22	17	11
All	27	52	525	1,184	1,490	1,023	479	111	52	20	16	10

H1a3.2.11 Calaveras River below New Hogan Reservoir (SWRCB New Hogan)

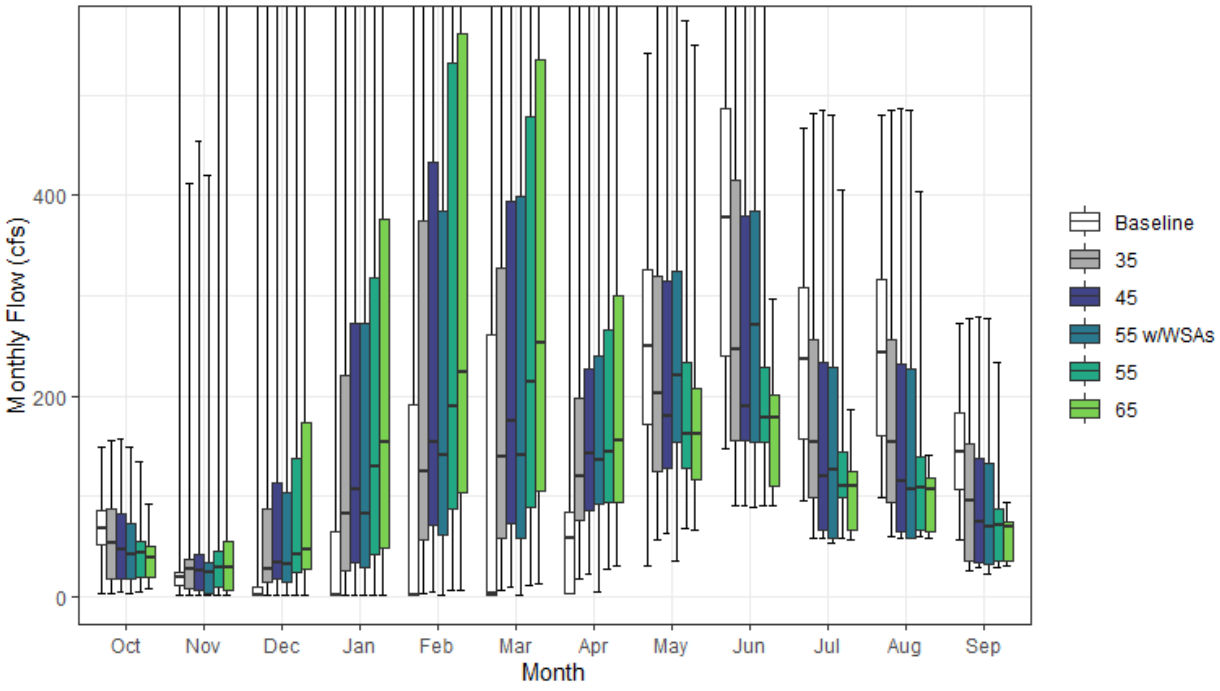

Figure H1a3-11. Calaveras River Streamflow below New Hogan Reservoir Monthly Boxplot (cfs)

Table H1a3-21. 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													
0%	3	1	1	1	3	7	17	57	91	58	59	26	23
10%	16	3	6	15	21	33	60	101	95	60	60	33	37
25%	18	7	14	26	56	57	76	124	155	99	93	35	58
50%	54	27	26	82	125	139	119	203	247	154	154	95	93
75%	88	36	88	221	374	327	198	319	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	591	781	481	486	277	550
Mean	58	35	121	260	391	336	168	225	292	184	181	105	142
45													
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	767	1,047	904	371	380	495	305	307	175	300
100%	158	455	1,325	3,005	3,679	2,697	1,370	635	790	486	488	279	549
Mean	53	39	131	279	408	344	196	223	270	166	162	94	142
55 w/WSAs													
0%	2	1	1	1	1	1	4	35	89	54	57	22	21
10%	14	2	5	14	21	29	71	89	91	57	59	32	36
25%	17	3	14	29	61	58	93	154	154	57	59	32	55
50%	41	24	32	82	141	141	135	221	271	125	107	69	92
75%	73	34	103	273	385	399	240	324	385	229	227	132	209
90%	89	52	279	681	1,101	1,004	393	386	506	312	295	172	304
100%	149	420	1,348	3,005	3,679	2,697	1,505	636	798	480	485	277	547
Mean	47	31	126	275	392	343	211	244	288	163	154	88	142
55													
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	93	128	155	99	65	36	67
50%	44	29	41	130	189	214	143	162	178	110	109	71	98
75%	55	46	138	319	533	479	266	233	228	144	139	87	200
90%	73	92	388	916	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													
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 H1a3-22. 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												
C	36	11	16	31	63	49	52	94	109	63	64	34
D	59	24	43	48	129	112	95	142	177	106	103	59
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	184	181	105
45												
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	196	223	270	166	162	94
55 w/WSAs												
C	27	8	15	32	63	32	63	102	97	57	58	32
D	47	22	40	57	134	113	128	236	269	94	60	32
BN	53	24	67	117	303	210	151	183	223	141	135	78
AN	38	46	141	286	451	354	181	267	323	201	198	116
W	56	48	279	662	791	759	401	355	431	269	267	155
All	47	31	126	275	392	343	211	244	288	163	154	88
55												
C	29	11	25	49	99	75	59	91	115	72	65	35
D	48	29	68	76	203	177	123	135	149	93	87	52
BN	44	35	97	150	369	270	194	162	174	109	98	60
AN	37	70	122	449	523	396	215	202	209	130	123	78
W	51	84	336	717	877	752	415	306	323	198	190	115
All	44	49	154	325	461	379	226	193	208	129	121	73
65												
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	219	133	117	74
All	36	85	174	346	477	406	256	173	167	102	95	57

H1a3.2.12 Calaveras River above Delta (SWRCB Calaveras River)

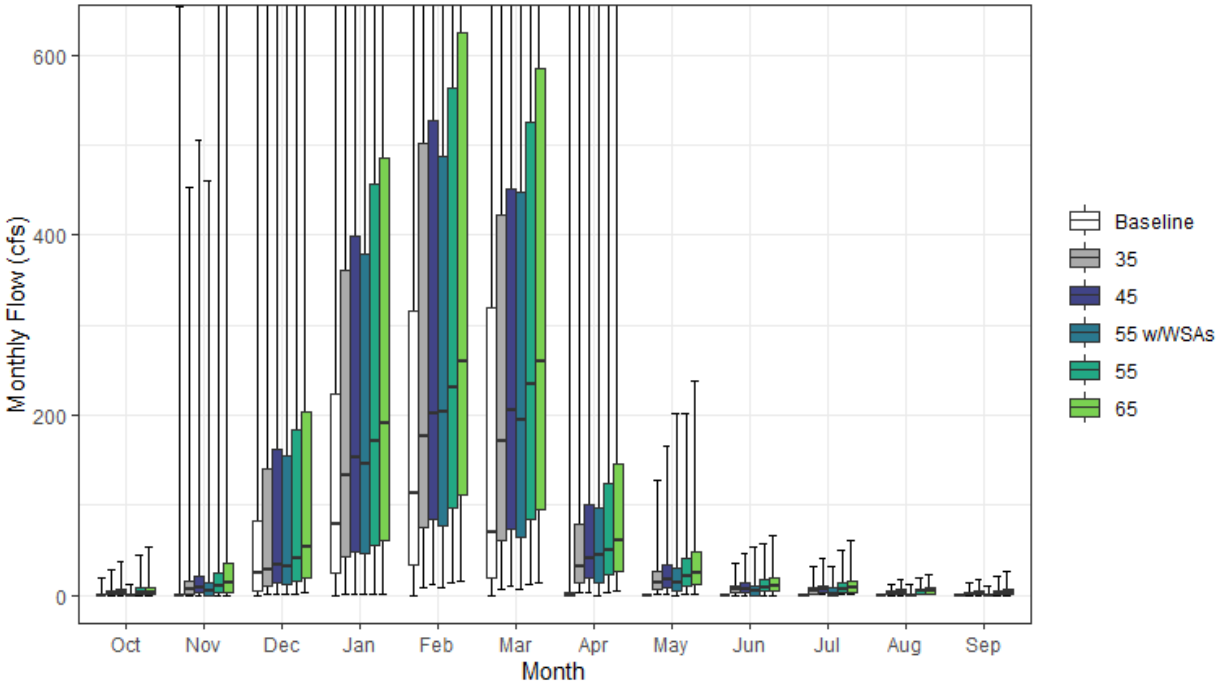

Figure H1a3-12. Calaveras River Streamflow above Delta Monthly Boxplot (cfs)

Table H1a3-23. 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													
0%	0	0	1	1	9	7	2	0	0	0	0	0	3
10%	0	0	6	25	32	27	9	4	1	1	1	0	15
25%	1	2	11	44	75	61	14	6	3	2	1	0	26
50%	2	7	29	134	177	171	32	14	6	4	3	2	50
75%	5	16	140	361	502	422	79	26	11	8	5	4	127
90%	11	49	321	858	1,209	1,134	154	40	15	14	7	6	206
100%	28	453	1,290	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													
0%	0	0	2	1	11	10	3	0	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	9	3	3	1	0	31
50%	3	9	34	152	201	205	42	17	7	6	4	2	58
75%	6	20	163	399	528	451	101	34	14	11	6	5	129
90%	14	63	367	915	1,152	992	196	51	19	18	9	8	204
100%	37	506	1,252	2,877	3,528	2,620	883	165	46	42	17	18	434
Mean	5	29	150	338	463	366	91	25	10	8	4	3	89
55 w/WSAs													
0%	0	0	1	1	9	7	0	0	0	0	0	0	2
10%	0	0	7	27	31	26	9	0	0	0	0	0	14
25%	0	0	12	47	77	65	14	5	0	0	0	0	25
50%	0	5	32	146	203	195	44	14	5	0	0	0	48
75%	0	15	154	379	487	449	97	29	11	8	2	0	128
90%	0	35	352	893	1,168	1,040	221	56	15	14	6	1	205
100%	12	460	1,269	2,876	3,528	2,620	949	202	53	33	13	11	437
Mean	0	21	146	335	450	366	94	24	7	5	2	1	86
55													
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	234	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	62	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													
0%	0	0	2	1	16	14	4	1	0	1	0	0	5
10%	0	1	11	35	44	50	16	7	2	1	1	0	23
25%	1	3	19	61	112	95	27	12	5	3	1	1	42
50%	4	14	53	190	259	259	60	25	10	8	5	3	78
75%	9	35	204	486	625	585	146	49	20	15	9	7	156
90%	21	115	457	1,048	1,233	975	280	74	28	25	13	11	212
100%	53	959	1,529	2,872	3,070	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 H1a3-24. 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												
C	3	3	29	63	107	65	10	5	2	3	2	1
D	4	10	61	84	177	140	26	8	4	3	3	2
BN	3	14	84	166	370	234	58	14	6	5	3	3
AN	3	44	158	417	516	374	65	22	8	6	3	3
W	6	45	294	698	855	755	165	39	15	11	5	4
All	4	24	143	323	449	361	76	20	8	6	3	3
45												
C	4	4	32	70	121	76	13	6	3	4	3	2
D	5	12	70	96	207	165	33	11	4	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	91	25	10	8	4	3
55 w/WSAs												
C	1	2	30	63	105	49	8	1	0	0	0	0
D	0	8	57	91	180	140	26	7	1	0	0	0
BN	0	10	86	174	380	244	64	14	5	3	0	0
AN	0	42	161	401	529	403	80	26	8	5	3	0
W	1	39	304	734	845	761	214	53	16	11	5	2
All	0	21	146	335	450	366	94	24	7	5	2	1
55												
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												
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

H1a3.2.13 Clear Creek above Confluence with Sacramento River (SWRCB Clear Creek)

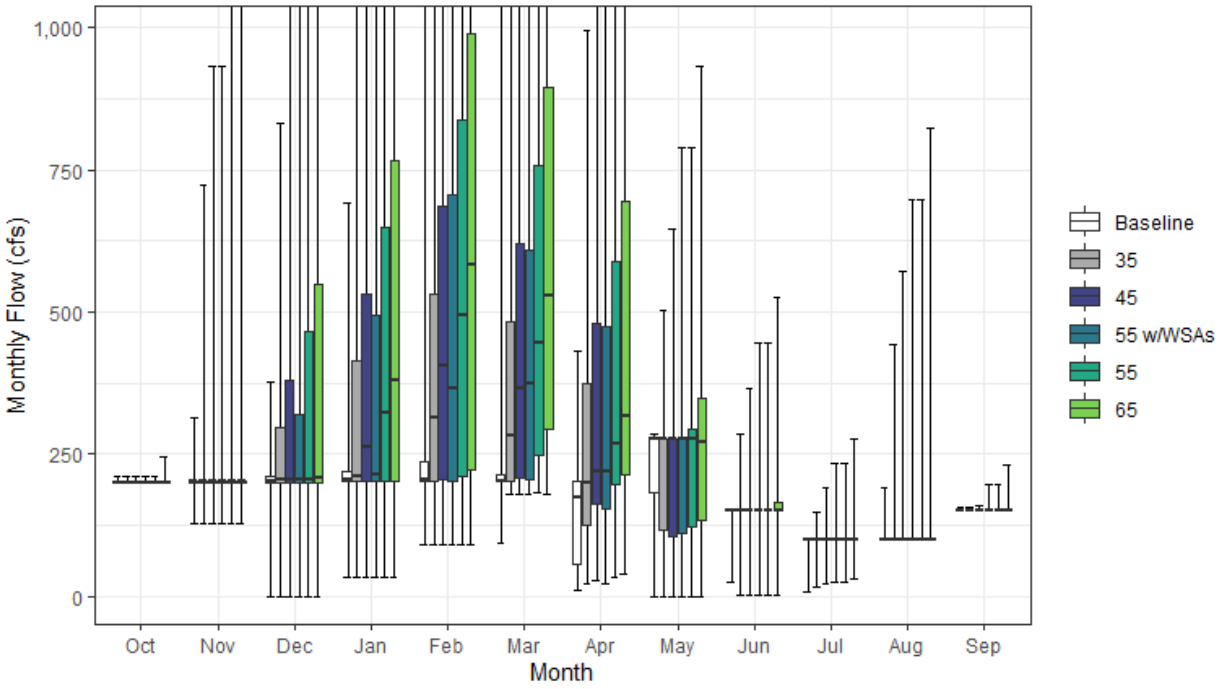

Figure H1a3-13. Clear Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-25. 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													
0%	200	129	0	32	92	181	21	0	1	17	100	150	87
10%	200	194	84	200	200	201	68	46	67	100	100	150	109
25%	200	200	200	202	202	202	126	116	150	100	100	150	129
50%	201	201	204	211	314	284	200	278	150	101	101	151	155
75%	202	202	296	413	533	482	374	278	151	101	101	151	197
90%	203	212	490	669	847	718	500	279	152	101	101	151	233
100%	210	724	833	1,511	2,023	1,960	994	502	284	149	443	156	380
Mean	201	211	254	346	427	383	260	219	139	99	105	151	168
45													
0%	200	129	0	32	92	181	27	0	1	21	100	150	88
10%	200	194	84	200	200	201	87	59	69	100	100	150	114
25%	200	200	200	202	204	207	161	104	150	100	100	150	133
50%	201	201	206	263	404	365	220	278	150	101	101	151	173
75%	202	203	381	531	685	620	481	278	151	101	101	151	232
90%	203	269	630	860	1,090	923	642	325	179	101	101	151	282
100%	210	931	1,071	1,943	2,601	2,520	1,278	645	365	191	570	161	478
Mean	201	223	296	419	529	474	331	227	143	101	107	151	192
55 w/WSAs													
0%	200	129	0	32	92	181	21	0	1	26	100	150	87
10%	200	194	84	200	200	201	69	46	69	100	100	150	110
25%	200	200	200	202	203	204	154	112	150	101	101	150	133
50%	201	201	206	213	366	374	220	278	150	101	101	151	171
75%	202	203	319	495	706	610	473	279	152	101	101	151	236
90%	203	295	664	1,021	1,020	938	724	360	190	101	101	152	296
100%	209	931	1,310	1,834	2,601	3,080	1,562	788	446	234	697	196	576
Mean	201	226	301	430	537	496	349	237	149	103	110	151	198
55													
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	757	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													
0%	200	129	0	32	92	181	39	0	1	30	100	150	93
10%	200	194	84	200	200	201	126	78	75	100	100	150	125
25%	200	200	200	204	223	293	213	135	150	100	100	150	157
50%	200	201	207	381	584	527	318	270	150	100	101	150	209
75%	202	204	550	767	989	895	695	348	164	101	101	151	313
90%	203	389	909	1,242	1,574	1,333	928	468	258	135	110	152	380
100%	245	1,344	1,547	2,806	3,757	3,640	1,846	932	527	276	824	231	675
Mean	202	249	388	570	742	666	474	272	160	109	114	152	246

Table H1a3-26. 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												
C	201	190	173	187	238	222	98	169	126	101	100	151
D	201	203	188	221	297	308	160	177	143	101	101	151
BN	201	200	182	278	338	284	223	172	127	97	101	151
AN	201	208	258	441	574	466	299	287	152	101	103	151
W	202	237	389	527	619	553	427	278	144	97	113	151
All	201	211	254	346	427	383	260	219	139	99	105	151
45												
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	206	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												
C	201	190	173	187	239	222	100	168	125	101	100	151
D	201	216	198	235	324	355	182	175	143	101	101	151
BN	201	211	198	318	405	338	269	169	128	99	101	151
AN	201	226	290	523	710	598	396	314	170	101	109	151
W	202	263	514	736	866	805	638	330	171	109	127	152
All	201	226	301	430	537	496	349	237	149	103	110	151
55												
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												
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

H1a3.2.14 Cosumnes River above Confluence with Delta (SWRCB Cosumnes River)

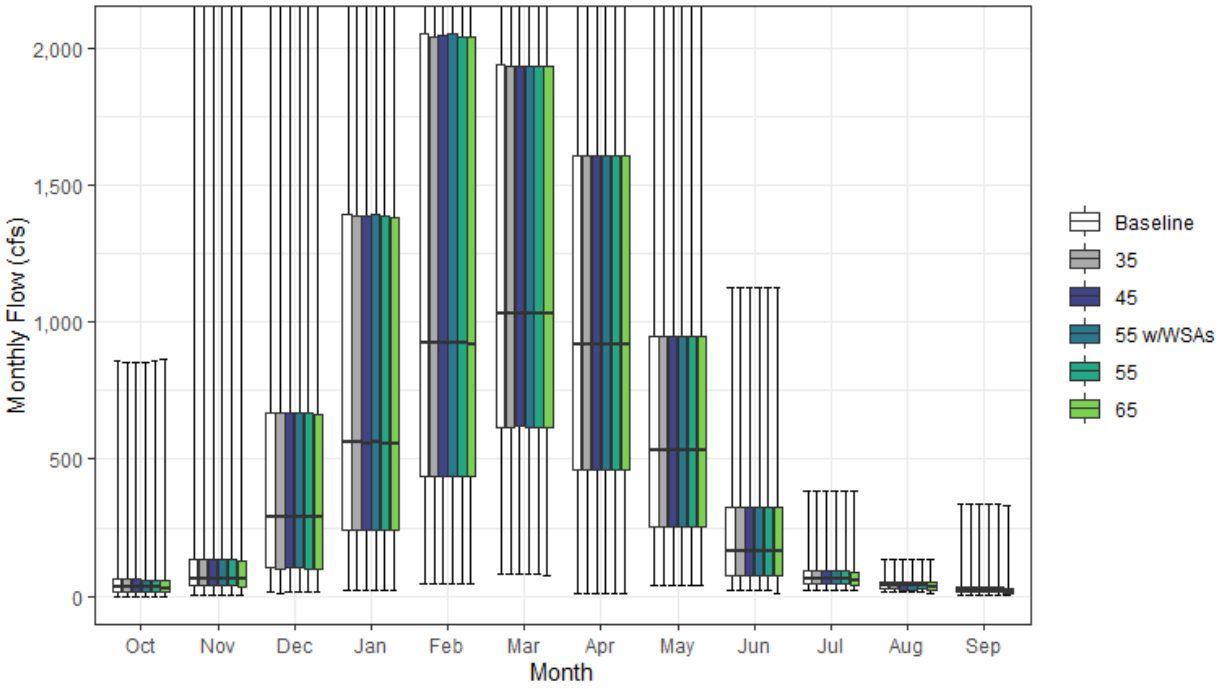

Figure H1a3-14. Cosumnes River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a3-27. 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													
0%	1	5	13	21	46	80	10	39	20	24	18	5	22
10%	10	23	59	134	210	336	241	95	50	30	22	14	121
25%	18	38	102	242	438	619	463	252	77	44	25	18	188
50%	35	65	288	560	923	1,029	921	535	164	62	38	24	365
75%	61	135	671	1,388	2,043	1,932	1,609	946	325	91	50	35	616
90%	134	325	1,888	3,219	3,749	3,057	2,212	1,426	582	141	64	48	874
100%	855	2,871	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													
0%	0	5	13	21	46	80	10	39	20	24	18	5	22
10%	10	24	59	134	210	337	241	95	50	30	22	13	121
25%	18	38	102	242	438	619	463	252	77	44	25	17	188
50%	35	65	287	556	923	1,029	921	535	164	62	38	24	365
75%	61	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	2,866	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													
0%	1	5	13	21	46	80	10	39	21	24	15	5	22
10%	10	24	59	137	210	337	241	96	51	31	22	14	121
25%	17	37	103	242	438	618	463	252	77	44	25	16	188
50%	34	65	291	565	923	1,028	921	535	165	62	38	24	365
75%	60	135	671	1,392	2,051	1,936	1,609	946	325	91	50	35	616
90%	134	324	1,887	3,219	3,749	3,058	2,212	1,426	582	141	64	48	873
100%	854	2,866	4,651	8,844	9,471	6,484	5,808	2,404	1,126	386	136	337	1,531
Mean	60	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32	437
55													
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	37	102	242	438	617	463	252	76	44	25	16	188
50%	34	64	287	556	923	1,029	921	535	164	62	37	23	365
75%	58	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													
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	186
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 H1a3-28. 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												
C	43	39	167	230	413	387	235	156	73	35	25	15
D	42	91	310	344	703	825	644	368	104	44	30	38
BN	41	104	411	646	1,253	1,221	1,217	594	210	66	36	28
AN	57	318	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												
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	38
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												
C	43	38	168	230	414	387	235	156	73	36	24	15
D	42	91	311	344	703	825	644	368	105	44	30	37
BN	41	104	411	647	1,254	1,221	1,217	594	210	66	36	28
AN	56	317	595	1,744	1,921	1,906	1,165	746	235	79	41	28
W	95	272	1,388	2,466	2,713	2,461	1,966	1,196	479	142	60	41
All	60	167	668	1,197	1,519	1,457	1,152	674	249	81	41	32
55												
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	41	103	410	644	1,252	1,220	1,217	594	209	66	36	28
AN	55	317	594	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												
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

H1a3.2.15 Cottonwood Creek above Confluence with Sacramento River (SWRCB Cottonwood Creek)

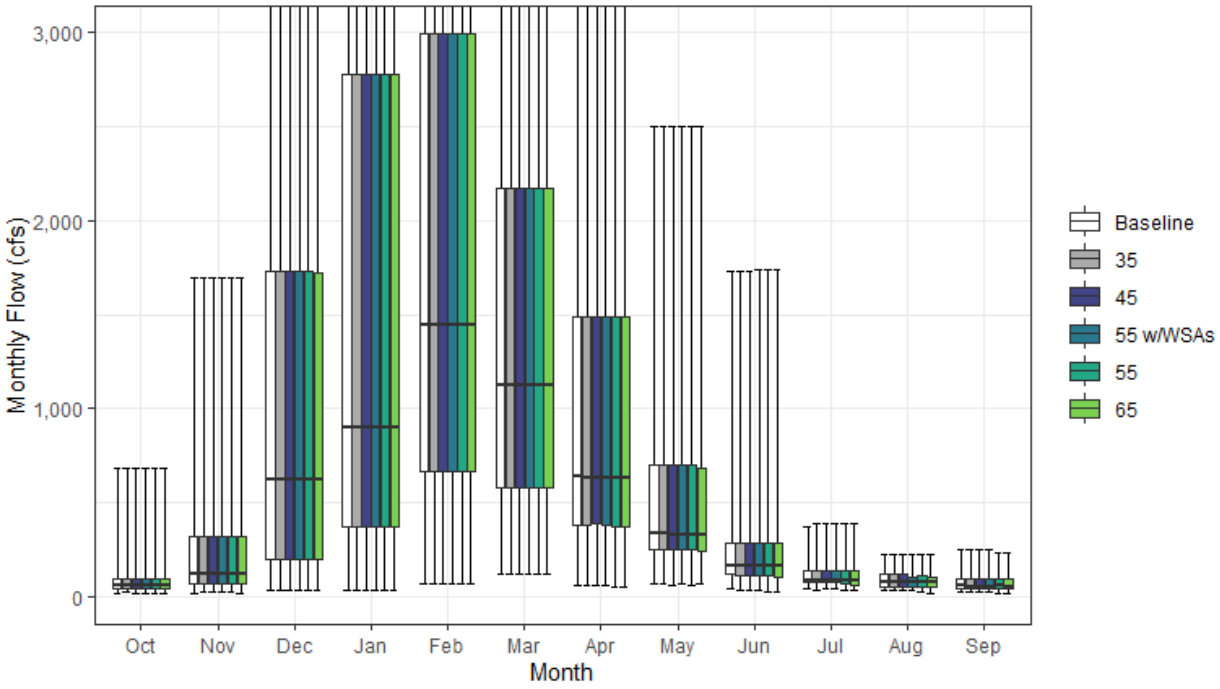

Figure H1a3-15. Cottonwood Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-29. 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													
0%	19	21	34	28	63	116	54	66	28	36	32	20	49
10%	28	47	79	197	265	296	203	151	80	53	46	31	146
25%	41	70	192	370	666	577	380	245	113	72	51	39	251
50%	62	122	617	899	1,444	1,123	628	337	162	87	75	47	425
75%	91	315	1,726	2,776	2,994	2,173	1,491	700	285	135	118	92	768
90%	150	647	3,161	4,389	5,082	3,571	2,081	976	411	184	138	110	1,062
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,499	1,733	391	221	250	1,895
Mean	89	270	1,186	1,835	2,180	1,653	980	523	233	110	84	69	551
45													
0%	13	22	34	28	63	116	54	61	29	40	28	20	50
10%	27	47	79	197	265	296	202	151	78	53	46	31	146
25%	41	70	192	370	666	577	387	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	699	280	135	115	92	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	987	396	184	133	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,733	391	221	250	1,897
Mean	89	270	1,186	1,835	2,180	1,653	980	522	232	110	83	69	551
55 w/WSAs													
0%	15	20	34	28	63	116	54	65	32	41	34	20	50
10%	27	47	79	197	265	296	202	151	80	53	46	32	146
25%	41	70	192	370	666	577	378	245	114	72	52	39	251
50%	59	122	617	899	1,444	1,123	627	328	162	87	75	47	423
75%	88	315	1,726	2,776	2,994	2,173	1,491	699	280	135	104	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	984	410	178	130	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,738	391	221	250	1,896
Mean	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69	551
55													
0%	14	21	34	28	64	116	53	61	27	32	23	17	48
10%	28	47	79	197	264	296	202	149	79	51	45	29	146
25%	40	70	192	369	666	577	373	245	112	64	51	39	251
50%	61	122	617	899	1,444	1,123	627	328	162	86	75	54	423
75%	88	315	1,726	2,776	2,994	2,173	1,491	697	280	135	106	93	767
90%	150	647	3,161	4,389	5,082	3,571	2,081	987	394	170	123	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,738	391	221	228	1,897
Mean	88	270	1,186	1,835	2,180	1,653	979	519	231	108	82	69	551
65													
0%	16	19	34	28	64	116	53	62	25	30	13	12	48
10%	26	48	79	197	265	296	202	147	76	49	45	24	145
25%	41	70	192	369	666	577	373	239	105	59	52	39	250
50%	57	122	617	899	1,444	1,123	627	328	159	83	75	48	417
75%	95	315	1,726	2,776	2,994	2,173	1,491	682	279	134	100	92	768
90%	153	646	3,160	4,389	5,082	3,571	2,081	984	401	170	122	110	1,064
100%	686	1,693	5,158	10,169	12,295	10,471	4,887	2,500	1,738	391	221	228	1,897
Mean	89	270	1,185	1,835	2,180	1,653	979	517	229	106	82	67	550

Table H1a3-30. 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												
C	67	74	441	507	748	540	256	174	92	58	52	38
D	65	242	697	625	1,213	1,008	473	273	133	72	55	57
BN	70	180	615	1,319	1,595	1,087	793	376	181	82	61	46
AN	114	287	1,232	2,589	2,954	2,127	1,110	818	305	141	99	91
W	121	445	2,285	3,455	3,713	2,890	1,805	868	387	171	131	100
All	89	270	1,186	1,835	2,180	1,653	980	523	233	110	84	69
45												
C	65	74	441	506	747	540	256	172	91	58	52	37
D	64	241	697	625	1,213	1,008	473	271	132	71	55	58
BN	69	180	615	1,319	1,595	1,087	793	373	179	82	61	46
AN	113	287	1,232	2,589	2,954	2,127	1,108	816	305	141	96	91
W	121	445	2,285	3,455	3,713	2,890	1,805	869	384	172	128	100
All	89	270	1,186	1,835	2,180	1,653	980	522	232	110	83	69
55 w/WSAs												
C	66	74	441	507	748	540	256	175	93	58	54	39
D	62	242	697	625	1,213	1,008	471	272	132	72	55	57
BN	71	180	615	1,319	1,595	1,087	792	374	181	82	61	46
AN	112	287	1,232	2,589	2,954	2,127	1,108	812	305	141	96	91
W	121	445	2,285	3,455	3,713	2,890	1,804	864	383	171	126	101
All	88	270	1,186	1,835	2,180	1,653	979	520	232	110	83	69
55												
C	65	75	440	506	747	538	256	171	88	53	49	35
D	65	242	696	625	1,213	1,008	470	270	131	70	57	58
BN	67	180	615	1,319	1,595	1,087	793	372	179	81	63	46
AN	112	288	1,232	2,589	2,954	2,127	1,108	812	302	141	96	91
W	122	445	2,285	3,455	3,713	2,890	1,804	864	384	170	124	101
All	88	270	1,186	1,835	2,180	1,653	979	519	231	108	82	69
65												
C	64	75	440	506	747	538	256	168	83	47	44	31
D	66	242	696	625	1,213	1,008	470	268	130	65	64	54
BN	66	180	615	1,319	1,595	1,087	792	370	175	79	61	46
AN	113	287	1,231	2,589	2,954	2,127	1,108	810	302	140	94	90
W	122	445	2,284	3,455	3,713	2,890	1,804	861	386	170	124	100
All	89	270	1,185	1,835	2,180	1,653	979	517	229	106	82	67

H1a3.2.16 Cow Creek above Confluence with Sacramento River (SWRCB Cow Creek)

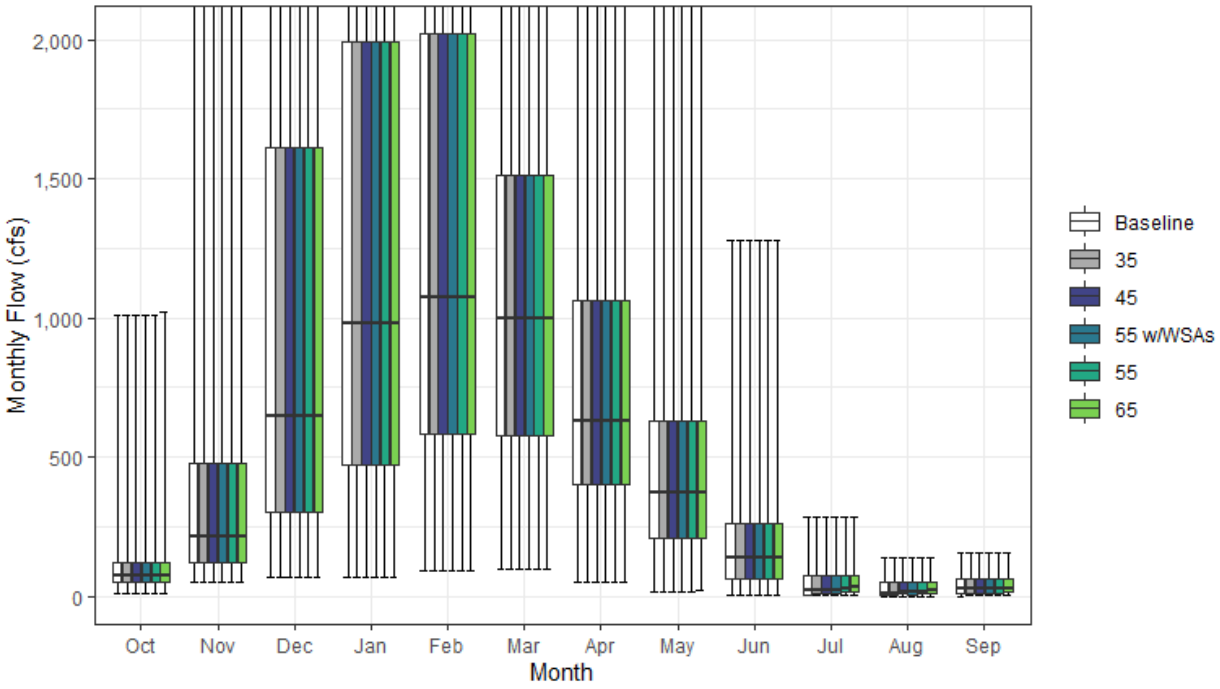

Figure H1a3-16. Cow Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-31. 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													
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													
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													
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													
0%	12	51	67	66	94	98	52	18	5	2	1	2	43
10%	29	89	121	267	302	351	234	103	26	8	5	9	169
25%	49	119	302	471	580	576	399	211	62	14	9	13	233
50%	76	215	645	981	1,073	1,000	627	373	139	26	17	29	367
75%	120	477	1,614	1,992	2,020	1,512	1,061	630	258	76	48	64	564
90%	165	681	2,475	2,979	2,937	2,407	1,659	942	381	107	68	76	743
100%	1,011	2,304	3,707	5,391	5,418	4,973	3,217	2,185	1,276	284	139	158	1,108
Mean	99	352	1,031	1,365	1,434	1,188	799	471	188	47	30	40	423
65													
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	50	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 H1a3-32. 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												
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												
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												
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												
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												
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

H1a3.2.17 Deer Creek above Confluence with Sacramento River (SWRCB Deer Creek)

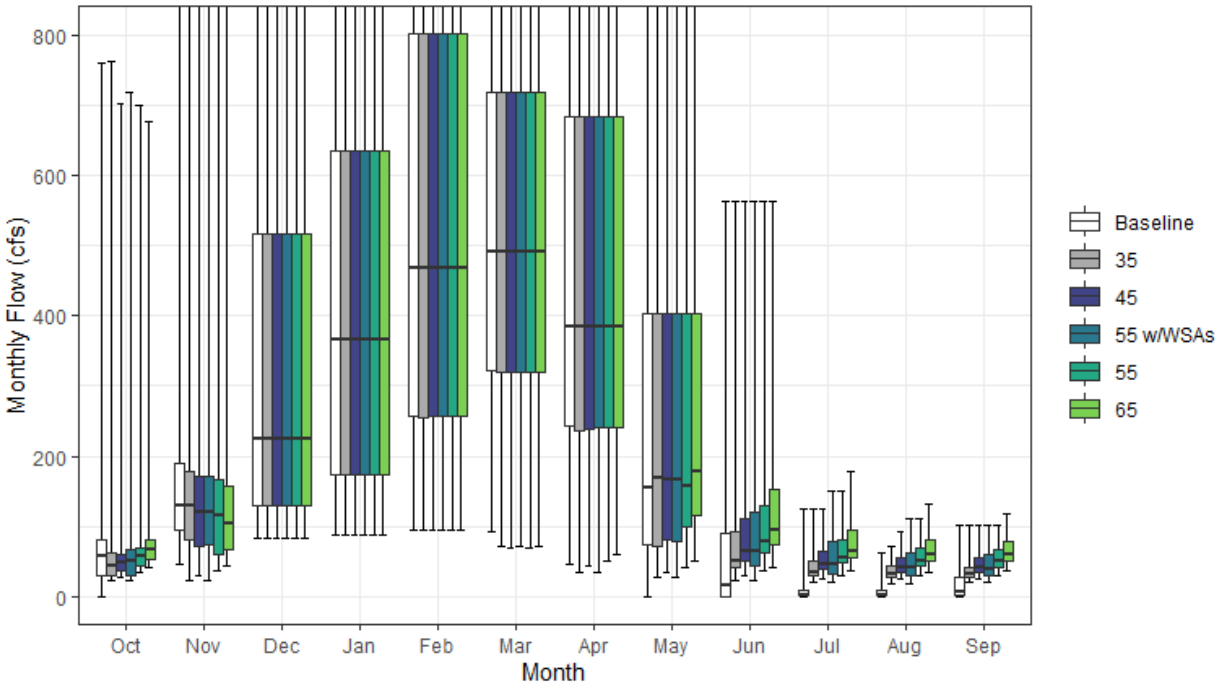

Figure H1a3-17. Deer Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-33. 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													
0%	22	23	82	87	95	72	34	27	23	19	19	19	34
10%	24	40	100	129	161	206	121	45	33	25	23	23	77
25%	29	81	129	173	256	320	237	70	40	30	27	27	105
50%	43	128	223	365	468	491	386	168	50	35	32	32	158
75%	61	177	517	635	802	719	684	404	92	51	44	42	264
90%	92	306	899	1,180	1,284	1,141	1,009	661	235	66	52	48	357
100%	763	969	1,797	2,427	2,567	2,079	1,696	1,102	563	125	71	102	466
Mean	57	165	380	510	616	587	488	266	92	43	35	35	196
45													
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	52	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													
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													
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													
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 H1a3-34. 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												
C	41	80	168	170	242	243	113	52	32	25	23	23
D	45	131	256	212	354	412	288	106	41	30	27	28
BN	46	126	236	355	492	495	490	194	64	36	31	30
AN	51	167	312	642	800	748	548	307	79	44	38	38
W	84	261	703	956	1,012	892	808	527	186	66	50	48
All	57	165	380	510	616	587	488	266	92	43	35	35
45												
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												
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												
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												
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

H1a3.2.18 Elder Creek above Confluence with Sacramento River

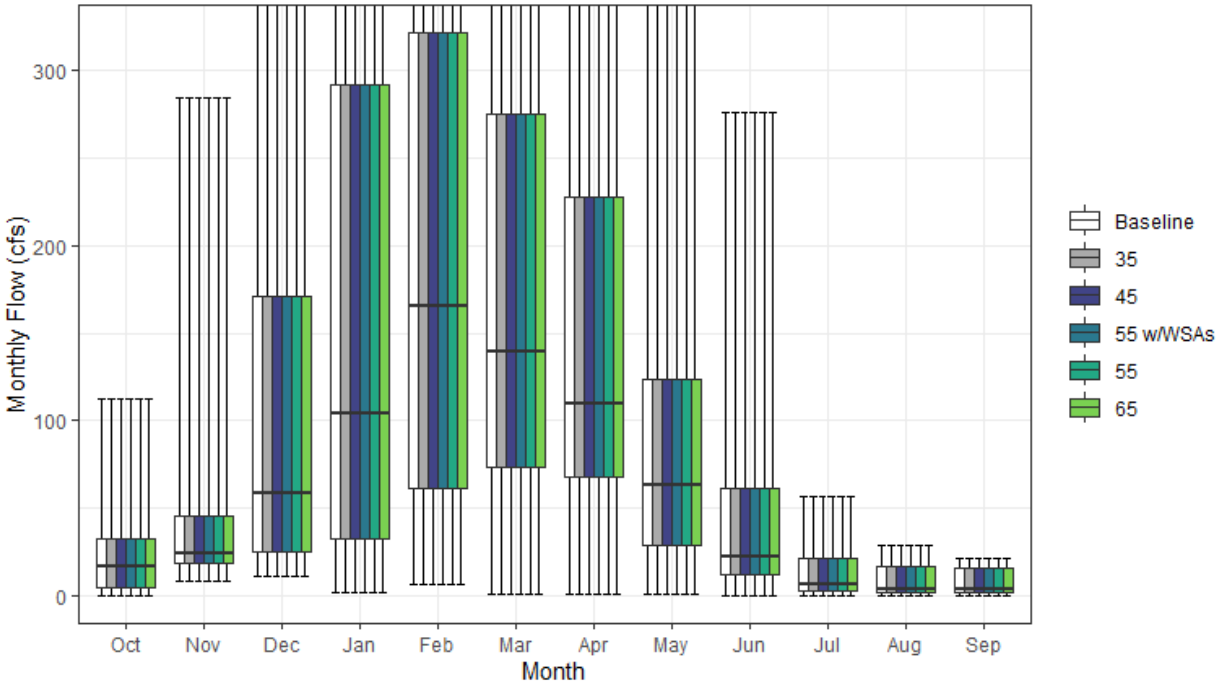

Figure H1a3-18. Elder Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-35. 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													
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													
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													
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													
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													
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 H1a3-36. 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												
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												
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												
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												
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												
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

H1a3.2.19 Feather River below Oroville Reservoir (SWRCB Oroville)

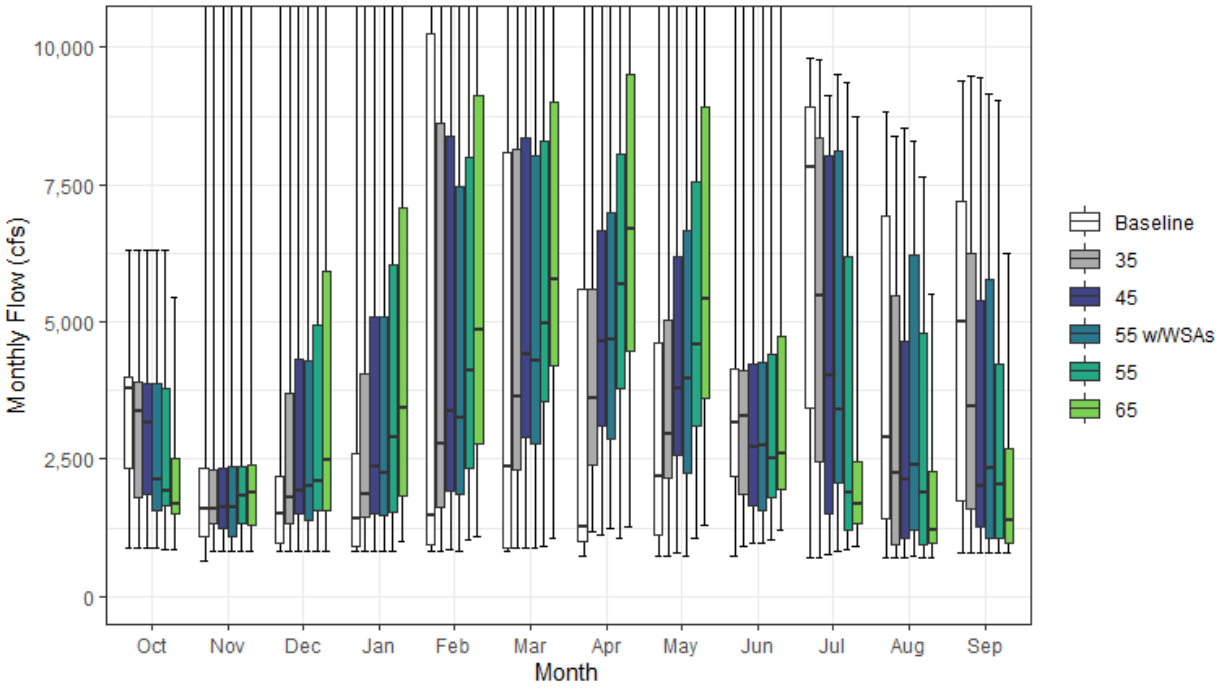

Figure H1a3-19. Feather River Streamflow below Oroville Reservoir Monthly Boxplot (cfs)

Table H1a3-37. 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													
0%	871	810	808	808	812	884	1,185	741	901	712	715	790	1,075
10%	1,220	826	840	960	1,304	1,596	1,745	1,569	1,098	1,346	734	980	1,199
25%	1,809	1,334	1,335	1,443	1,610	2,303	2,405	2,160	1,856	2,451	933	1,584	1,856
50%	3,378	1,605	1,809	1,868	2,791	3,637	3,611	2,964	3,277	5,480	2,239	3,448	2,757
75%	3,905	2,290	3,710	4,068	8,635	8,157	5,600	5,027	4,115	8,340	5,489	6,259	4,049
90%	4,601	2,400	7,519	12,174	13,178	14,305	11,068	9,298	6,473	9,046	7,756	8,828	5,669
100%	6,299	15,494	24,353	38,957	46,231	30,830	22,208	20,892	13,401	9,777	8,374	9,493	8,220
Mean	3,090	2,025	3,426	4,609	5,967	6,395	5,091	4,419	3,598	5,445	3,453	4,223	3,119
45													
0%	872	808	808	808	854	887	1,129	801	960	769	711	784	1,030
10%	1,497	844	930	1,114	1,518	1,998	2,147	1,749	1,179	970	867	930	1,388
25%	1,857	1,233	1,502	1,494	1,932	2,911	3,092	2,572	1,640	1,509	1,068	1,252	1,611
50%	3,168	1,608	1,907	2,373	3,368	4,402	4,643	3,775	2,732	4,019	2,117	2,019	2,784
75%	3,872	2,340	4,324	5,097	8,389	8,365	6,673	6,175	4,220	8,028	4,645	5,386	4,051
90%	4,027	2,401	8,099	12,278	13,202	13,176	10,688	8,923	6,608	8,485	7,131	8,297	5,664
100%	6,299	15,494	24,353	38,957	42,489	30,830	22,208	20,892	13,401	9,123	8,541	9,450	8,220
Mean	3,040	2,052	3,721	5,009	6,204	6,510	5,713	4,945	3,487	4,486	3,169	3,561	3,128
55 w/WSAs													
0%	868	811	808	808	815	884	1,235	746	976	806	729	792	1,040
10%	1,128	825	840	960	1,375	1,875	1,778	1,745	1,102	1,318	994	932	1,232
25%	1,558	1,099	1,374	1,464	1,858	2,771	2,855	2,254	1,550	2,066	1,208	1,061	1,587
50%	2,136	1,607	2,021	2,244	3,255	4,303	4,681	3,964	2,753	3,386	2,406	2,337	2,707
75%	3,868	2,370	4,292	5,095	7,466	8,015	6,989	6,664	4,260	8,118	6,229	5,780	4,144
90%	3,959	2,401	7,674	12,278	12,626	13,828	10,834	9,400	6,542	8,778	7,556	8,239	5,732
100%	6,299	15,494	24,353	36,838	40,561	30,830	22,208	20,819	12,989	9,512	8,307	9,146	8,220
Mean	2,653	2,017	3,622	4,900	5,892	6,354	5,734	5,053	3,458	4,779	3,608	3,604	3,116
55													
0%	839	808	807	808	1,042	901	1,063	1,055	1,039	845	711	784	926
10%	1,174	840	1,065	1,361	1,654	2,401	2,624	1,896	1,272	942	901	923	1,409
25%	1,654	1,327	1,557	1,529	2,340	3,558	3,782	3,100	1,805	1,195	941	1,048	1,768
50%	1,930	1,832	2,101	2,885	4,117	4,981	5,671	4,579	2,508	1,902	1,885	2,023	2,535
75%	3,778	2,376	4,944	6,027	7,997	8,296	8,051	7,544	4,410	6,183	4,804	4,245	4,259
90%	3,930	2,402	8,686	12,928	12,581	13,574	11,339	10,056	7,621	8,198	6,456	6,129	5,628
100%	6,299	15,494	24,353	37,043	33,747	30,830	22,208	18,544	12,990	9,362	7,647	9,038	8,220
Mean	2,487	2,098	4,046	5,309	6,420	6,853	6,522	5,613	3,536	3,489	2,896	3,007	3,149
65													
0%	858	808	808	1,013	1,081	1,065	1,253	1,295	1,201	902	711	784	1,045
10%	1,046	929	1,114	1,509	1,955	2,837	3,098	2,157	1,626	1,087	934	926	1,590
25%	1,498	1,294	1,566	1,842	2,766	4,204	4,463	3,620	1,947	1,311	979	981	1,890
50%	1,683	1,878	2,477	3,424	4,865	5,772	6,705	5,405	2,587	1,687	1,219	1,371	2,572
75%	2,505	2,389	5,919	7,087	9,132	9,015	9,512	8,917	4,747	2,456	2,260	2,694	4,419
90%	3,865	2,404	10,753	12,164	13,960	14,670	13,255	11,578	7,911	6,410	4,549	3,971	5,608
100%	5,456	15,494	24,304	37,042	33,454	30,830	22,208	19,706	11,724	8,733	5,513	6,262	7,809
Mean	2,071	2,104	4,611	5,700	6,988	7,524	7,488	6,509	3,751	2,539	1,863	1,969	3,197

Table H1a3-38. 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												
C	3,155	1,473	1,379	1,225	1,470	1,837	1,693	1,625	1,782	2,347	2,162	1,673
D	2,951	1,648	2,144	1,517	2,556	2,871	2,812	2,498	2,404	4,766	3,811	1,866
BN	3,202	1,913	2,115	2,336	3,707	4,277	4,101	3,182	3,301	8,033	6,271	3,742
AN	2,569	1,649	2,141	4,146	7,230	8,089	4,593	3,845	3,108	7,463	4,671	8,474
W	3,295	2,817	6,801	10,306	11,793	12,073	9,399	8,332	5,827	5,150	1,606	5,915
All	3,090	2,025	3,426	4,609	5,967	6,395	5,091	4,419	3,598	5,445	3,453	4,223
45												
C	2,976	1,430	1,596	1,307	1,816	2,200	2,045	1,882	1,700	2,157	1,738	1,478
D	3,049	1,836	2,329	1,670	3,026	3,583	3,618	2,983	1,789	3,220	2,786	1,495
BN	3,147	1,868	2,317	2,664	4,100	4,972	5,197	4,136	3,045	6,015	4,878	2,324
AN	2,511	1,582	2,541	5,083	7,242	7,456	5,599	4,948	3,298	6,577	5,022	7,085
W	3,210	2,845	7,235	10,887	11,793	11,549	9,580	8,528	6,042	4,853	2,391	5,560
All	3,040	2,052	3,721	5,009	6,204	6,510	5,713	4,945	3,487	4,486	3,169	3,561
55 w/WSAs												
C	2,466	1,301	1,429	1,197	1,515	1,874	1,753	1,577	1,565	1,868	2,130	1,756
D	2,475	1,765	2,221	1,571	2,638	3,253	3,165	2,625	1,638	2,962	3,009	1,631
BN	2,896	1,791	2,449	2,517	3,837	4,595	5,078	4,039	2,884	7,098	4,909	2,889
AN	2,235	1,682	2,991	4,806	6,296	7,071	5,757	5,356	3,573	6,565	5,059	6,297
W	2,896	2,861	6,816	10,862	11,753	11,846	10,149	9,210	6,119	5,481	3,431	5,412
All	2,653	2,017	3,622	4,900	5,892	6,354	5,734	5,053	3,458	4,779	3,608	3,604
55												
C	2,346	1,279	1,529	1,548	2,151	2,655	2,449	2,177	1,692	1,798	1,790	1,474
D	2,545	1,854	2,619	1,880	3,305	4,348	4,433	3,485	1,909	1,551	1,233	1,353
BN	2,467	1,945	2,775	3,012	4,712	5,503	6,350	4,957	2,878	3,655	3,474	1,998
AN	2,093	1,770	3,244	5,914	6,965	7,928	6,710	6,060	3,280	4,413	4,411	4,398
W	2,692	2,941	7,561	11,042	11,845	11,355	10,259	9,241	6,233	5,339	3,733	5,120
All	2,487	2,098	4,046	5,309	6,420	6,853	6,522	5,613	3,536	3,489	2,896	3,007
65												
C	1,913	1,228	1,716	2,072	2,529	3,134	2,874	2,591	2,074	1,998	1,888	1,559
D	2,089	1,872	3,205	2,168	3,871	5,137	5,228	4,028	2,024	1,209	934	992
BN	2,155	1,797	3,175	3,532	4,964	6,035	7,510	5,746	2,988	1,480	1,566	1,452
AN	1,829	1,789	3,386	6,608	7,885	9,368	7,927	7,132	3,354	1,665	1,529	2,216
W	2,186	3,060	8,586	11,234	12,576	11,822	11,416	10,654	6,555	4,822	2,854	3,133
All	2,071	2,104	4,611	5,700	6,988	7,524	7,488	6,509	3,751	2,539	1,863	1,969

H1a3.2.20 Feather River above Confluence with Sacramento River (SWRCB Feather River)

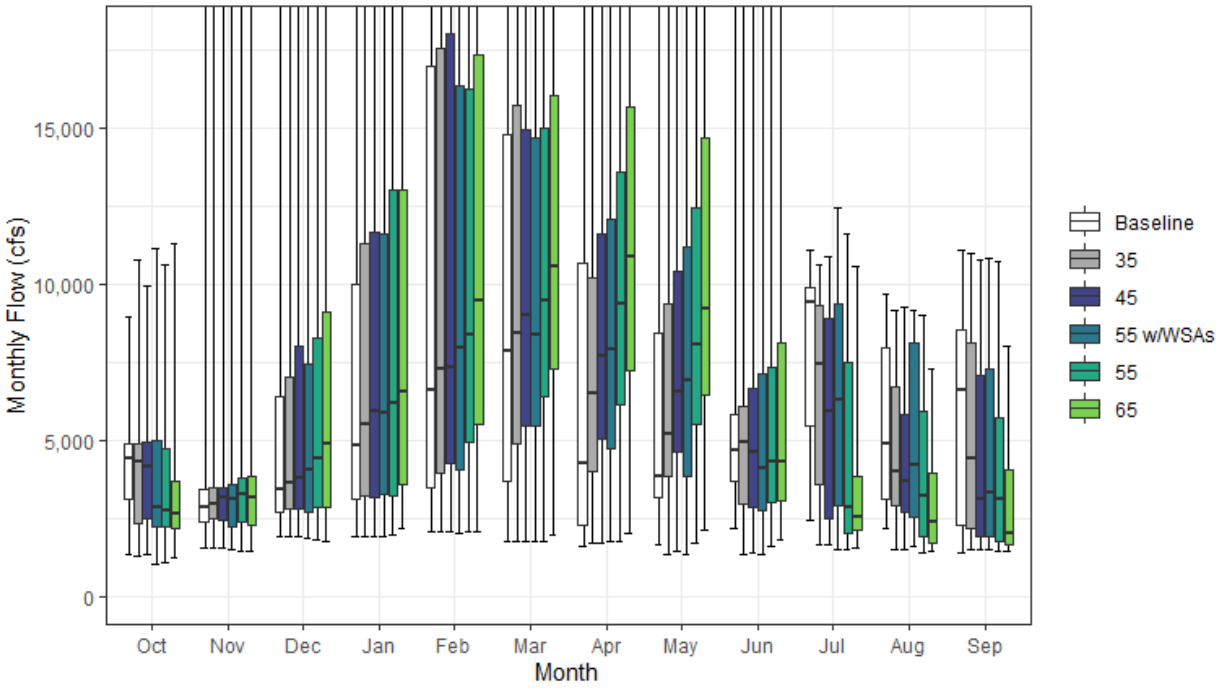

Figure H1a3-20. Feather River Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-39. 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													
0%	1,281	1,530	1,891	1,925	2,078	1,763	1,720	1,321	1,345	1,662	1,500	1,488	1,510
10%	1,825	1,883	2,159	2,579	2,864	3,342	2,951	2,523	1,978	1,872	2,262	1,687	2,070
25%	2,354	2,481	2,802	3,222	3,968	4,871	3,995	3,816	2,930	3,603	2,909	2,196	3,072
50%	4,290	2,944	3,610	5,495	7,301	8,424	6,515	5,209	4,940	7,448	3,977	4,435	4,372
75%	4,865	3,488	6,995	11,311	17,561	15,704	10,211	9,369	6,091	9,328	6,689	8,134	6,809
90%	5,709	4,422	16,589	24,328	25,619	24,056	17,961	15,859	10,784	9,737	8,479	10,111	9,148
100%	10,794	22,356	40,590	66,469	77,071	50,371	36,743	29,810	22,394	10,596	9,167	10,973	13,340
Mean	3,921	3,544	6,901	9,821	11,926	11,885	8,741	7,549	5,812	6,544	4,760	5,337	5,222
45													
0%	1,320	1,560	1,889	1,935	2,086	1,771	1,693	1,426	1,386	1,633	1,477	1,488	1,483
10%	1,923	1,916	2,216	2,601	3,035	3,493	3,650	2,832	1,888	1,792	1,906	1,658	2,252
25%	2,496	2,407	2,823	3,160	4,261	5,472	5,063	4,640	2,834	2,462	2,709	1,905	2,916
50%	4,138	3,168	3,778	5,909	7,356	8,983	7,717	6,532	4,623	5,915	3,703	3,103	4,321
75%	4,933	3,498	7,999	11,660	18,011	14,924	11,580	10,413	6,666	8,870	5,836	7,081	6,895
90%	5,228	4,768	16,364	25,916	25,634	23,118	17,916	15,726	10,576	9,577	8,344	9,579	9,161
100%	9,944	22,628	40,332	66,335	73,448	50,004	36,650	29,779	21,934	10,883	9,261	10,787	13,340
Mean	3,871	3,615	7,154	10,158	12,182	12,008	9,578	8,258	5,648	5,616	4,459	4,660	5,249
55 w/WSAs													
0%	1,016	1,520	1,842	1,935	2,035	1,764	1,763	1,313	1,343	1,512	1,615	1,491	1,428
10%	1,629	1,845	2,066	2,521	2,971	3,447	3,039	2,437	1,867	1,996	1,991	1,671	2,030
25%	2,232	2,202	2,717	3,256	4,027	5,475	4,710	3,814	2,758	2,915	2,539	1,928	2,777
50%	2,840	3,100	4,042	5,883	7,936	8,368	7,914	6,917	4,121	6,275	4,202	3,295	4,184
75%	4,961	3,556	7,458	11,603	16,345	14,694	12,060	11,178	7,123	9,364	8,094	7,261	7,394
90%	5,095	4,805	14,156	22,285	24,844	23,370	17,701	15,434	10,819	10,168	8,526	9,745	9,331
100%	11,130	22,179	39,264	63,532	71,739	50,739	36,576	29,981	21,160	12,432	9,138	10,829	13,356
Mean	3,519	3,633	6,944	9,970	11,739	11,733	9,616	8,373	5,604	6,159	5,012	4,781	5,243
55													
0%	1,093	1,421	1,813	1,967	2,051	1,774	1,733	1,690	1,581	1,486	1,385	1,447	1,395
10%	1,625	1,834	2,144	2,817	3,234	4,059	4,460	3,017	2,010	1,691	1,585	1,600	2,309
25%	2,239	2,396	2,853	3,233	4,957	6,405	6,153	5,508	3,025	2,007	1,916	1,757	3,079
50%	2,767	3,253	4,395	6,172	8,352	9,489	9,388	8,044	4,293	2,866	3,214	3,121	4,341
75%	4,751	3,788	8,278	12,994	16,231	14,991	13,568	12,463	7,342	7,491	5,915	5,724	7,473
90%	5,095	5,045	16,095	24,582	25,571	25,113	19,585	16,902	11,635	9,270	7,667	8,057	9,241
100%	10,613	22,813	40,166	63,394	64,909	49,989	36,501	27,748	21,176	11,626	8,979	10,737	13,353
Mean	3,374	3,684	7,466	10,322	12,370	12,408	10,731	9,329	5,731	4,638	4,065	4,049	5,305
65													
0%	1,225	1,427	1,742	2,179	2,060	1,939	2,003	2,143	1,812	1,570	1,456	1,435	1,513
10%	1,593	1,815	2,171	3,022	3,613	4,670	5,266	3,422	2,233	1,769	1,633	1,602	2,566
25%	2,178	2,298	2,839	3,593	5,511	7,304	7,237	6,426	3,046	2,109	1,706	1,665	3,202
50%	2,619	3,145	4,891	6,575	9,451	10,574	10,878	9,227	4,287	2,550	2,361	2,004	4,399
75%	3,686	3,865	9,086	13,038	17,319	16,033	15,667	14,665	8,096	3,838	3,938	4,059	7,624
90%	4,957	5,262	18,278	22,428	25,937	26,883	21,761	19,464	12,773	8,589	5,995	5,395	9,177
100%	11,288	22,882	40,277	63,151	61,963	50,000	36,662	29,738	20,701	10,553	7,285	7,995	13,079
Mean	3,001	3,688	8,063	10,685	12,910	13,131	12,096	10,700	6,105	3,703	3,002	2,981	5,418

Table H1a3-40. 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												
C	3,662	2,550	2,871	2,890	3,429	3,573	2,752	2,569	2,411	2,824	2,742	2,174
D	3,696	2,904	4,113	3,709	5,326	6,285	4,875	4,232	3,486	5,435	4,595	2,579
BN	3,960	3,091	4,151	5,695	8,425	9,005	7,561	5,842	5,114	8,748	7,138	4,628
AN	3,309	3,490	5,283	10,887	14,364	15,535	8,357	7,591	5,319	8,741	6,283	9,802
W	4,444	4,853	13,484	20,187	22,539	20,790	15,672	13,702	9,971	7,068	3,844	7,710
All	3,921	3,544	6,901	9,821	11,926	11,885	8,741	7,549	5,812	6,544	4,760	5,337
45												
C	3,504	2,510	3,113	3,024	3,828	4,111	3,341	2,986	2,351	2,591	2,280	1,961
D	3,787	3,104	4,327	3,829	5,937	7,008	6,003	5,027	2,871	3,925	3,569	2,198
BN	3,915	3,071	4,341	5,983	8,792	9,625	8,921	6,999	4,813	6,812	5,743	3,146
AN	3,240	3,467	5,705	11,723	14,363	14,754	9,484	8,796	5,467	7,898	6,567	8,436
W	4,353	4,983	13,745	20,621	22,490	20,298	15,979	14,023	10,042	6,799	4,616	7,354
All	3,871	3,615	7,154	10,158	12,182	12,008	9,578	8,258	5,648	5,616	4,459	4,660
55 w/WSAs												
C	3,012	2,371	2,906	2,889	3,455	3,662	2,836	2,490	2,154	2,315	2,637	2,201
D	3,246	3,047	4,214	3,763	5,500	6,615	5,384	4,467	2,647	3,672	3,806	2,343
BN	3,680	3,014	4,441	5,929	8,535	8,995	8,748	6,824	4,605	7,891	5,982	3,888
AN	2,981	3,573	6,072	11,198	13,430	14,115	10,076	9,384	5,863	8,113	6,761	7,834
W	4,103	5,153	13,035	20,365	22,087	20,572	16,700	14,954	10,143	8,153	5,849	7,289
All	3,519	3,633	6,944	9,970	11,739	11,733	9,616	8,373	5,604	6,159	5,012	4,781
55												
C	2,932	2,325	3,042	3,238	4,192	4,751	3,998	3,487	2,384	2,191	2,250	1,925
D	3,308	3,142	4,694	3,941	6,402	7,964	7,234	5,912	3,024	2,243	1,988	2,015
BN	3,285	3,160	4,736	6,302	9,294	10,124	10,543	8,344	4,776	4,516	4,298	2,727
AN	2,871	3,630	6,468	12,418	14,212	15,229	11,036	10,496	5,545	5,815	5,722	5,527
W	3,916	5,159	13,986	20,488	22,320	20,071	16,884	15,107	10,180	7,308	5,745	6,919
All	3,374	3,684	7,466	10,322	12,370	12,408	10,731	9,329	5,731	4,638	4,065	4,049
65												
C	2,536	2,198	3,221	3,730	4,680	5,437	4,680	4,114	2,838	2,360	2,279	1,901
D	2,881	3,162	5,324	4,177	7,111	9,038	8,457	6,858	3,244	1,877	1,642	1,646
BN	2,983	2,979	5,180	6,844	9,633	10,747	12,255	9,695	4,973	2,299	2,314	2,144
AN	2,662	3,669	6,563	13,200	14,808	16,808	12,698	12,240	5,757	3,073	2,835	3,400
W	3,484	5,326	15,079	20,591	22,870	20,274	18,379	17,051	10,800	6,901	4,886	4,900
All	3,001	3,688	8,063	10,685	12,910	13,131	12,096	10,700	6,105	3,703	3,002	2,981

H1a3.2.21 Mill Creek above Confluence with Sacramento River (SWRCB Mill Creek)

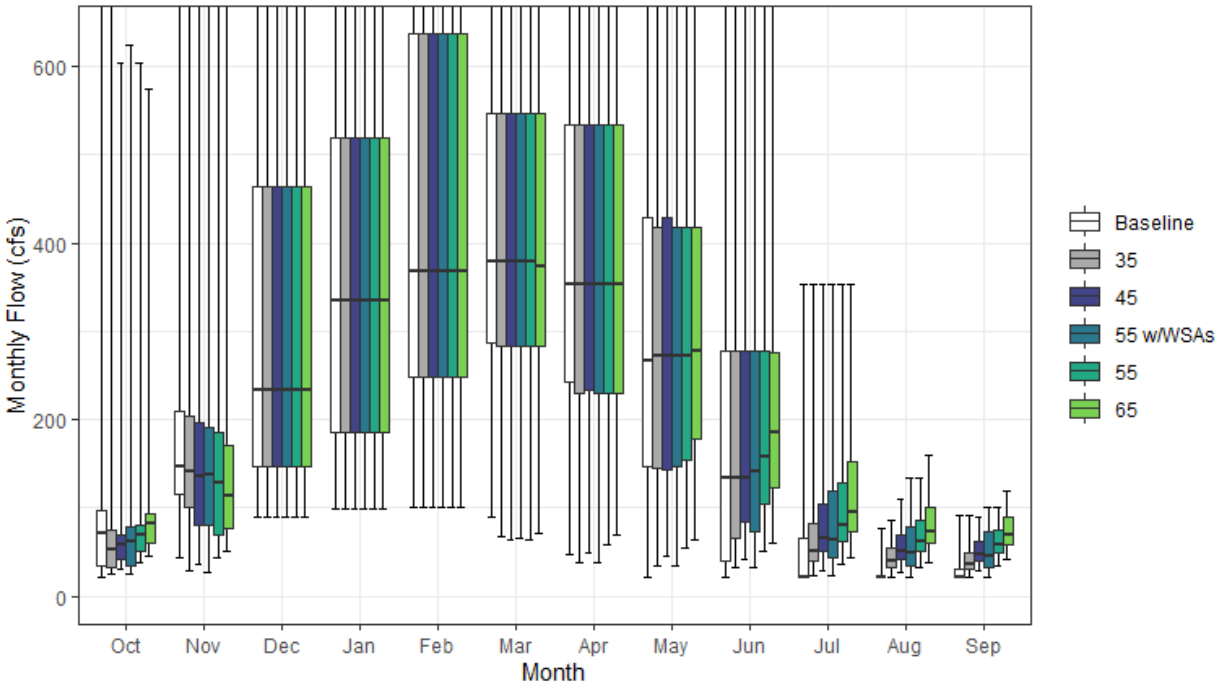

Figure H1a3-21. Mill Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-41. 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													
0%	24	29	90	100	101	67	38	35	32	23	21	22	37
10%	29	51	119	142	176	199	158	83	47	34	27	27	88
25%	33	100	147	185	247	283	229	144	66	39	32	31	111
50%	53	142	234	334	368	378	354	272	135	52	39	37	151
75%	74	205	464	519	637	547	533	417	277	82	54	48	241
90%	100	314	776	895	873	795	716	598	401	139	61	54	300
100%	673	1,026	1,345	1,816	1,725	1,266	1,101	804	668	353	86	92	385
Mean	66	178	349	422	476	446	392	304	183	73	43	40	179
45													
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													
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													
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													
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 H1a3-42. 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												
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												
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												
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												
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												
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

H1a3.2.22 Mokelumne River above Pardee Reservoir (SWRCB Pardee Inflow)

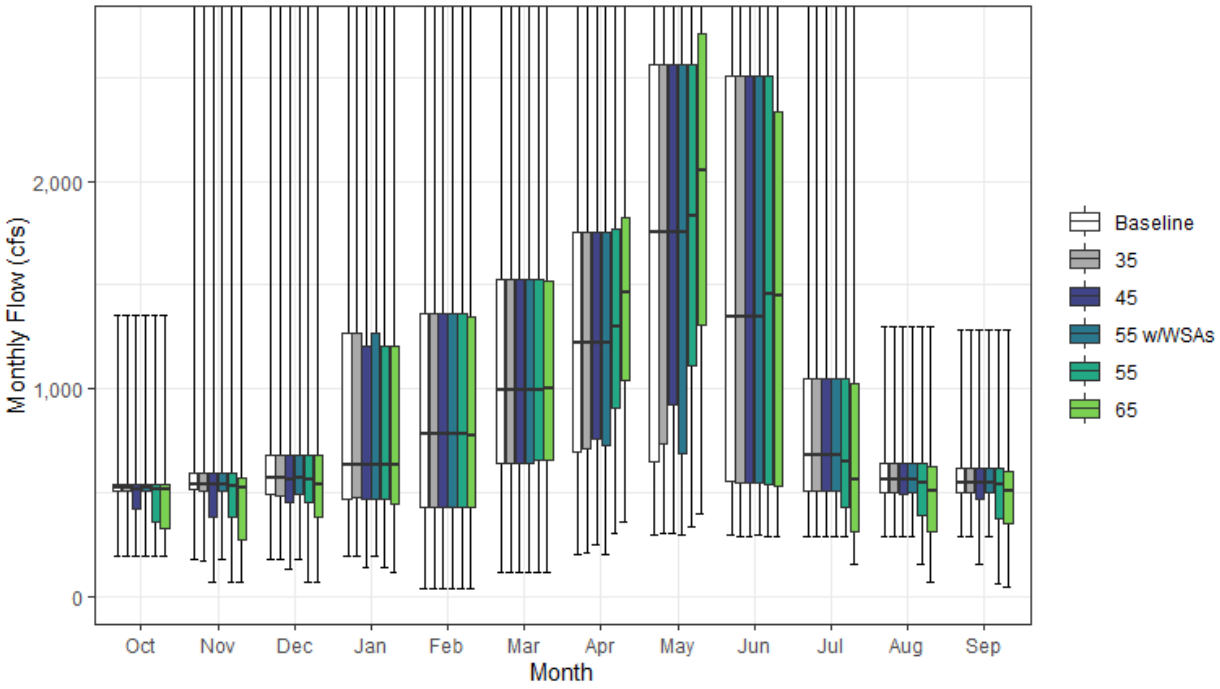

Figure H1a3-22. Mokelumne River Streamflow above Pardee Reservoir Monthly Boxplot (cfs)

Table H1a3-43. 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													
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	3,264	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													
0%	192	72	129	135	33	116	246	305	288	287	285	156	167
10%	319	221	287	269	264	362	591	581	347	321	359	343	303
25%	423	386	450	471	430	642	757	922	545	504	493	470	425
50%	515	536	564	636	785	989	1,222	1,756	1,343	677	563	549	649
75%	539	590	681	1,205	1,360	1,523	1,756	2,561	2,509	1,048	637	615	961
90%	552	792	1,660	1,926	2,128	2,149	2,194	3,244	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													
0%	195	178	179	196	33	116	201	295	291	287	285	288	165
10%	335	238	304	270	264	362	399	484	499	486	397	362	302
25%	503	510	488	466	429	642	723	690	549	505	496	497	417
50%	519	537	567	636	785	989	1,224	1,756	1,343	677	563	549	656
75%	539	590	681	1,269	1,360	1,523	1,756	2,561	2,509	1,048	641	615	961
90%	554	792	1,660	1,926	2,128	2,149	2,194	3,265	3,470	1,435	786	724	1,252
100%	1,356	3,382	3,947	5,738	6,920	3,360	4,481	5,075	6,506	3,644	1,297	1,285	1,947
Mean	508	591	799	970	1,048	1,152	1,324	1,788	1,777	859	591	567	722
55													
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													
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 H1a3-44. 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												
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												
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												
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												
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												
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

H1a3.2.23 Mokelumne River below Camanche Reservoir (SWRCB Camanche)

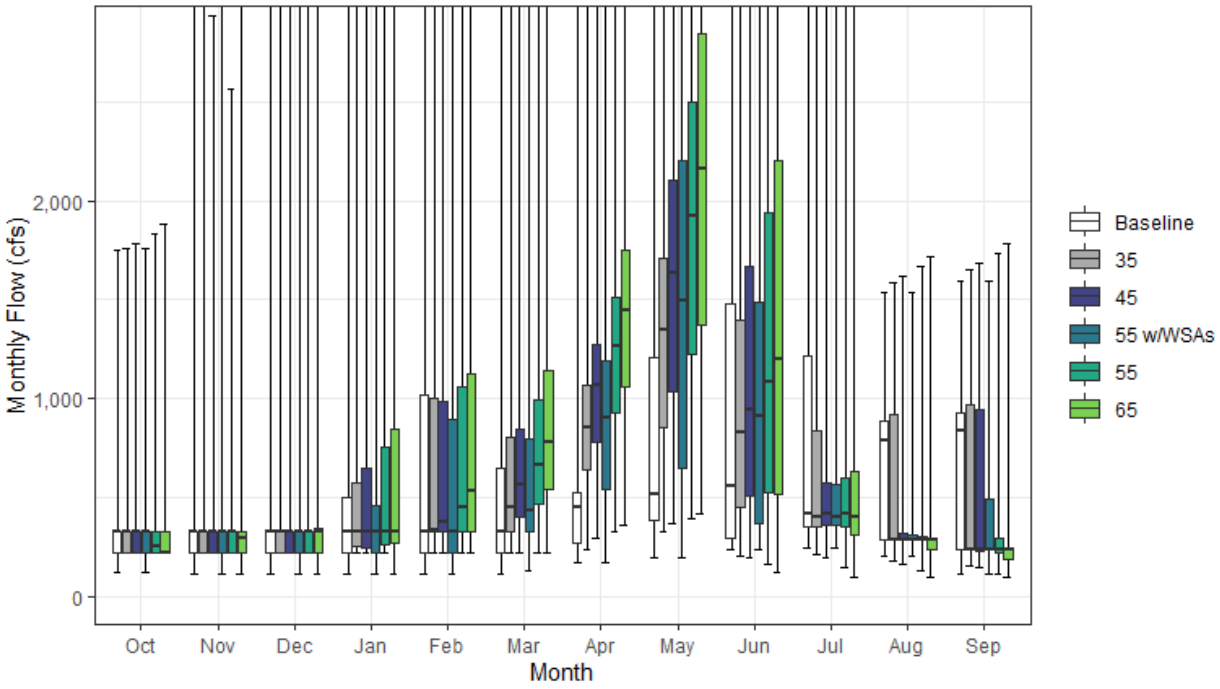

Figure H1a3-23. Mokelumne River Streamflow below Camanche Reservoir Monthly Boxplot (cfs)

Table H1a3-45. 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													
0%	220	220	220	220	220	220	237	329	202	210	177	153	170
10%	220	220	220	220	221	302	489	555	285	259	204	174	228
25%	220	221	220	250	325	326	642	853	449	350	287	239	293
50%	326	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	969	720
90%	571	461	1,683	1,950	1,880	1,629	1,818	2,640	2,140	1,619	1,070	1,100	1,022
100%	1,754	4,204	3,898	6,083	7,129	3,390	4,345	4,155	4,476	3,059	1,587	1,652	1,717
Mean	344	398	589	744	814	720	988	1,452	1,052	685	516	567	535
45													
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	1,037	504	356	287	231	325
50%	325	326	325	325	376	568	1,063	1,632	940	415	288	240	444
75%	326	326	326	646	987	845	1,270	2,106	1,668	574	314	944	735
90%	560	494	1,531	1,950	1,633	1,629	1,818	2,750	2,215	1,647	1,076	1,108	1,037
100%	1,781	2,932	3,898	6,085	7,128	3,397	4,348	4,180	4,505	3,089	1,617	1,682	1,710
Mean	338	380	572	753	809	781	1,150	1,684	1,169	623	454	495	555
55 w/WSAs													
0%	124	115	115	115	115	127	169	198	234	245	204	116	150
10%	220	220	220	220	220	220	244	333	234	286	233	190	172
25%	220	220	220	220	221	325	539	649	368	355	287	239	279
50%	326	325	325	325	325	437	899	1,497	912	401	288	240	379
75%	326	326	326	458	893	792	1,191	2,204	1,488	566	307	493	692
90%	546	331	1,530	1,950	1,892	1,630	1,877	2,790	2,549	1,146	997	1,040	1,006
100%	1,754	3,887	3,898	6,085	7,129	3,412	4,345	4,140	4,432	2,998	1,538	1,592	1,684
Mean	327	369	553	698	753	687	979	1,558	1,079	585	422	429	509
55													
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	1,226	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	409	1,204	1,950	1,674	1,630	1,924	2,976	2,550	1,331	1,084	1,127	1,045
100%	1,831	2,567	3,801	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													
0%	220	115	115	115	220	220	362	414	120	100	100	100	194
10%	220	220	220	220	245	339	796	902	293	130	106	100	254
25%	220	220	221	265	326	543	1,062	1,374	517	308	235	188	372
50%	221	292	326	326	533	777	1,442	2,163	1,199	405	287	239	557
75%	326	326	341	843	1,126	1,145	1,746	2,844	2,200	633	292	245	806
90%	611	404	1,183	1,949	1,848	1,777	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	1,783	1,757
Mean	339	375	555	757	889	952	1,476	2,164	1,461	546	328	366	615

Table H1a3-46. 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												
C	267	258	257	257	270	295	465	584	388	262	215	181
D	288	304	295	282	317	403	767	1,021	567	354	276	255
BN	365	322	382	335	456	519	943	1,308	861	429	331	412
AN	290	630	597	852	878	850	907	1,610	1,086	681	505	692
W	434	495	1,109	1,558	1,669	1,255	1,492	2,259	1,870	1,318	975	1,050
All	344	398	589	744	814	720	988	1,452	1,052	685	516	567
45												
C	268	251	248	248	277	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	1,005	432	297	294
AN	281	512	579	886	883	921	1,124	1,931	1,211	572	392	517
W	424	492	1,067	1,574	1,612	1,291	1,604	2,479	2,029	1,153	842	985
All	338	380	572	753	809	781	1,150	1,684	1,169	623	454	495
55 w/WSAs												
C	260	247	246	246	246	247	254	310	251	282	230	189
D	275	278	269	272	274	347	646	934	524	365	280	230
BN	340	309	369	321	427	489	970	1,390	882	417	290	272
AN	265	561	563	700	775	754	1,056	1,938	1,143	566	407	489
W	416	462	1,037	1,490	1,572	1,271	1,586	2,636	2,028	1,022	718	780
All	327	369	553	698	753	687	979	1,558	1,079	585	422	429
55												
C	271	255	250	249	298	370	680	843	449	220	177	153
D	294	293	304	290	381	574	1,119	1,486	722	350	264	218
BN	358	316	361	361	555	728	1,378	1,845	1,143	440	290	238
AN	268	469	580	909	913	1,051	1,349	2,276	1,380	546	310	358
W	437	497	1,027	1,564	1,628	1,339	1,737	2,736	2,286	1,056	740	854
All	343	375	559	758	843	860	1,313	1,926	1,312	584	405	421
65												
C	242	237	242	240	315	420	777	959	454	165	136	124
D	296	283	310	300	423	655	1,276	1,682	769	311	237	199
BN	365	318	348	384	639	839	1,574	2,095	1,276	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	1,531	1,663	1,420	1,905	3,036	2,587	987	543	745
All	339	375	555	757	889	952	1,476	2,164	1,461	546	328	366

H1a3.2.24 Mokelumne River above Confluence with Delta (SWRCB Mokelumne River)

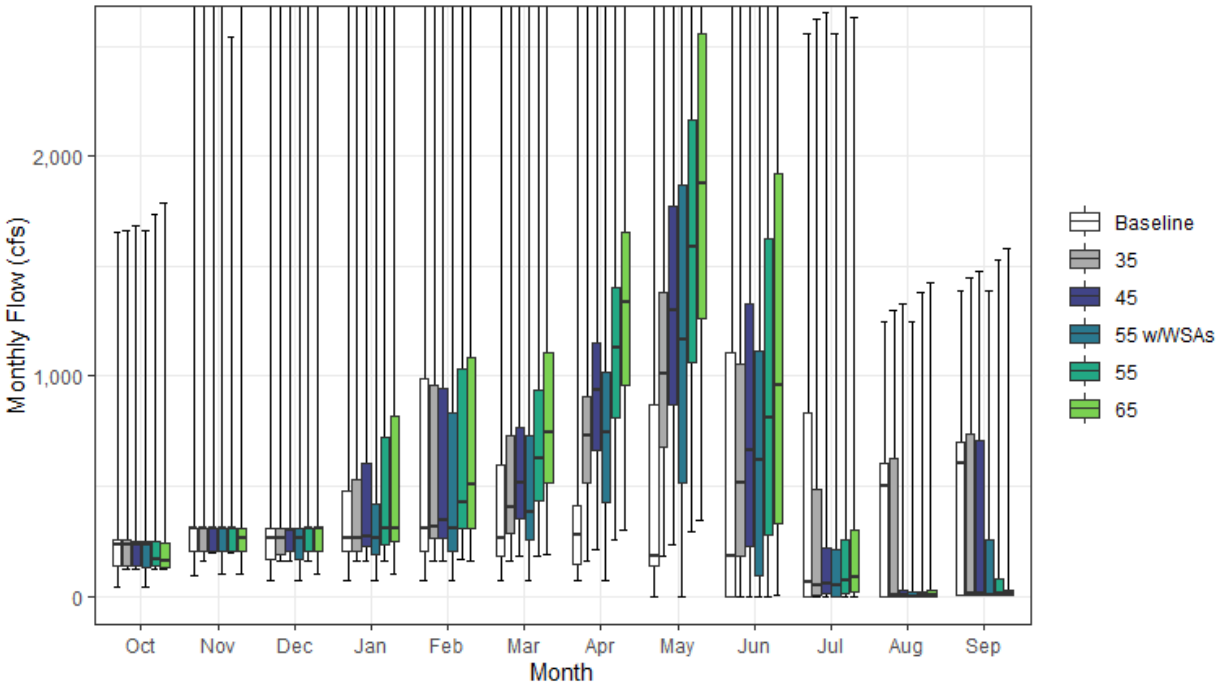

Figure H1a3-24. Mokelumne River Streamflow above Confluence with Delta Monthly Boxplot (cfs)

Table H1a3-47. 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													
0%	125	161	162	163	163	158	164	185	0	0	0	2	102
10%	126	201	164	165	203	247	395	425	67	0	0	7	148
25%	136	203	192	208	267	286	519	678	181	8	0	7	192
50%	231	305	267	268	317	401	730	1,011	515	46	5	10	276
75%	259	306	308	532	959	727	907	1,379	1,056	482	628	737	600
90%	493	416	1,632	1,931	1,827	1,568	1,707	2,324	1,767	1,183	782	889	902
100%	1,658	4,179	3,878	6,062	7,106	3,336	4,240	3,820	4,101	2,621	1,299	1,450	1,591
Mean	256	369	547	700	780	663	865	1,184	751	339	244	351	425
45													
0%	125	200	162	163	162	180	211	237	1	0	0	2	117
10%	126	201	164	167	205	273	508	547	86	1	0	7	163
25%	136	202	203	226	267	355	666	872	228	10	1	7	222
50%	231	305	303	274	348	514	938	1,299	662	60	5	9	334
75%	252	306	308	604	948	769	1,154	1,774	1,329	219	28	711	616
90%	469	446	1,511	1,900	1,583	1,575	1,707	2,443	1,841	1,211	788	878	918
100%	1,685	2,868	3,879	6,064	7,105	3,344	4,243	3,845	4,129	2,651	1,329	1,480	1,584
Mean	251	356	541	714	776	726	1,028	1,418	874	281	183	281	447
55 w/WSAs													
0%	42	98	75	75	75	75	72	0	0	0	0	2	64
10%	125	200	162	163	168	158	147	135	0	0	0	7	79
25%	133	201	164	192	205	258	429	519	92	1	0	7	178
50%	231	305	267	268	306	382	742	1,164	620	46	1	8	268
75%	251	306	308	419	835	730	1,017	1,870	1,115	210	20	260	566
90%	465	312	1,504	1,914	1,863	1,567	1,725	2,455	2,175	718	709	828	881
100%	1,658	3,822	3,871	6,064	7,106	3,329	4,240	3,805	4,057	2,560	1,250	1,390	1,560
Mean	239	346	515	656	718	627	853	1,275	771	236	146	211	397
55													
0%	126	200	162	163	171	185	258	290	0	0	0	4	136
10%	126	200	202	186	213	289	621	668	104	1	0	7	187
25%	135	203	205	234	308	433	815	1,066	278	13	0	7	257
50%	170	305	308	308	426	628	1,131	1,588	809	72	5	9	400
75%	248	306	308	722	1,030	939	1,400	2,167	1,624	257	21	82	651
90%	519	390	1,155	1,900	1,624	1,577	1,767	2,641	2,177	909	796	894	924
100%	1,735	2,543	3,781	6,064	7,105	3,093	4,242	3,896	4,180	2,700	1,380	1,529	1,602
Mean	257	354	533	723	814	810	1,196	1,666	1,038	256	142	212	482
65													
0%	126	101	101	101	162	192	305	343	4	0	0	7	157
10%	126	200	203	203	230	314	734	789	123	1	0	7	202
25%	132	202	206	250	308	512	962	1,259	328	18	0	7	292
50%	162	265	307	309	507	743	1,337	1,877	957	85	8	12	463
75%	241	307	318	816	1,082	1,105	1,655	2,556	1,919	303	25	27	694
90%	521	385	1,149	1,930	1,813	1,750	2,048	3,122	2,571	634	181	914	953
100%	1,785	3,007	3,342	6,023	7,078	3,093	4,242	4,031	4,338	2,628	1,429	1,580	1,638
Mean	254	355	532	729	862	915	1,384	1,942	1,220	255	85	168	524

Table H1a3-48. 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												
C	178	236	209	205	240	259	384	465	185	12	3	7
D	200	279	256	236	285	348	636	801	301	21	0	36
BN	280	292	343	291	433	459	794	1,002	557	75	44	182
AN	202	596	559	814	841	788	774	1,277	754	306	218	471
W	343	464	1,065	1,518	1,627	1,189	1,372	1,928	1,505	927	687	824
All	256	369	547	700	780	663	865	1,184	751	339	244	351
45												
C	180	232	209	204	245	289	494	597	239	15	4	8
D	203	282	268	242	317	434	817	1,030	387	27	1	7
BN	270	291	346	304	452	555	1,021	1,288	712	78	10	65
AN	195	486	555	852	847	861	995	1,604	892	210	105	296
W	333	464	1,035	1,537	1,574	1,228	1,484	2,148	1,667	765	555	758
All	251	356	541	714	776	726	1,028	1,418	874	281	183	281
55 w/WSAs												
C	172	227	207	197	213	201	153	117	10	1	2	6
D	187	258	234	235	239	286	516	690	236	19	0	7
BN	255	285	335	270	397	427	818	1,091	577	62	4	42
AN	178	538	526	665	741	691	923	1,604	824	204	120	268
W	327	436	994	1,449	1,532	1,206	1,466	2,305	1,670	642	430	553
All	239	346	515	656	718	627	853	1,275	771	236	146	211
55												
C	185	236	227	205	274	337	603	730	291	20	6	10
D	210	274	284	259	357	526	999	1,258	473	33	1	8
BN	274	297	336	331	533	676	1,248	1,574	870	95	5	8
AN	183	449	558	872	880	999	1,216	1,961	1,090	196	23	138
W	347	473	992	1,526	1,589	1,279	1,617	2,405	1,938	671	452	629
All	257	354	533	723	814	810	1,196	1,666	1,038	256	142	212
65												
C	162	219	224	214	295	392	713	862	345	26	15	19
D	213	264	292	278	403	621	1,180	1,487	558	40	4	10
BN	282	299	329	356	617	801	1,474	1,860	1,028	112	6	8
AN	180	474	478	910	941	1,181	1,436	2,316	1,287	232	11	31
W	347	481	1,022	1,498	1,623	1,374	1,813	2,752	2,267	635	261	519
All	254	355	532	729	862	915	1,384	1,942	1,220	255	85	168

H1a3.2.25 Paynes Creek above Confluence with Sacramento River

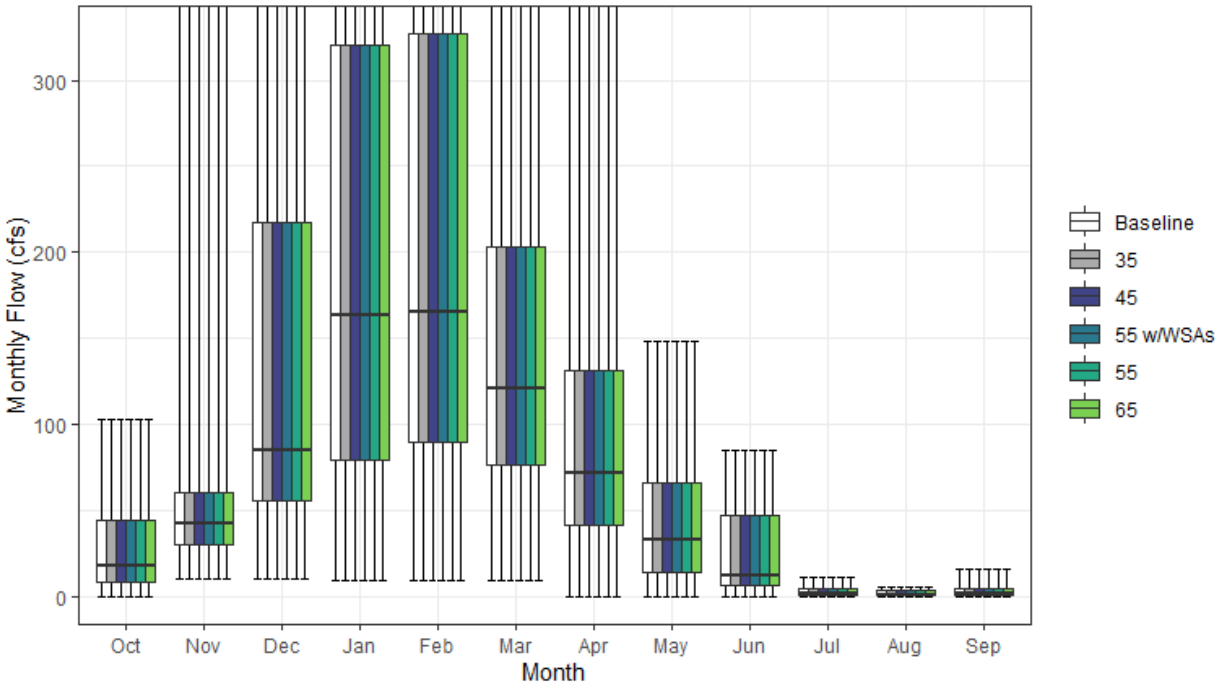

Figure H1a3-25. Paynes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-49. 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													
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													
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													
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													
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													
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 H1a3-50. 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												
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												
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												
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												
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												
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

H1a3.2.26 Putah Creek below Lake Berryessa (SWRCB Lake Berryessa)

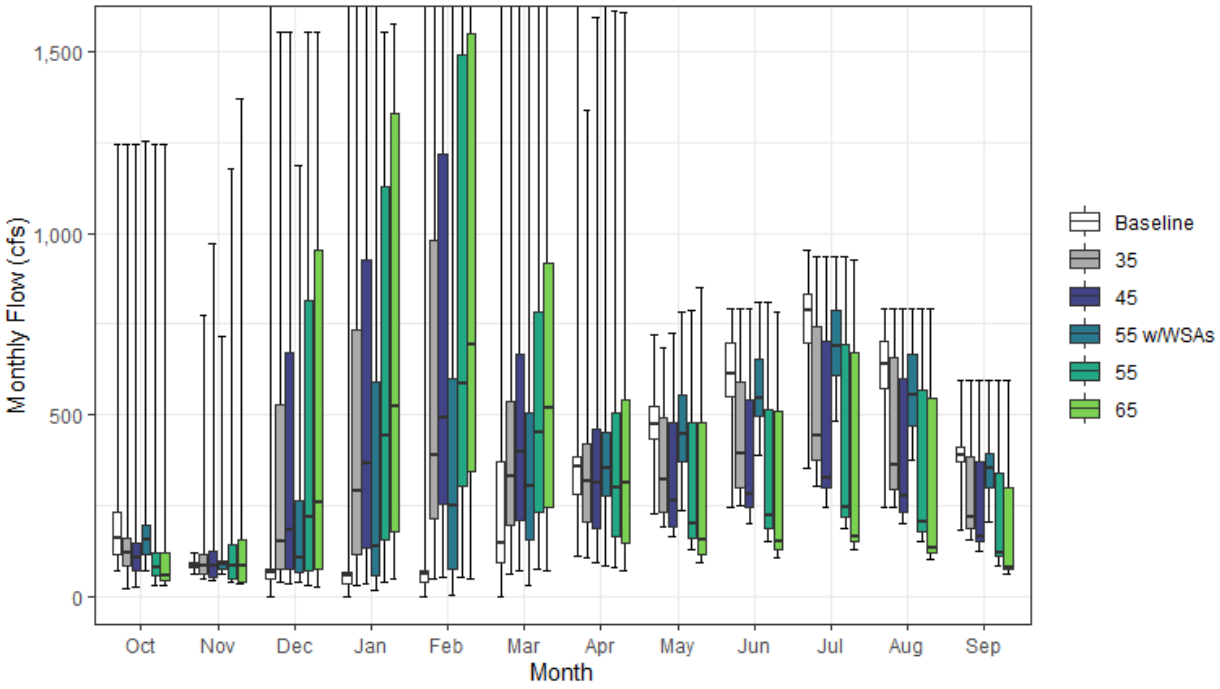

Figure H1a3-26. Putah Creek Streamfow below Lake Berryessa Monthly Boxplot (cfs)

Table H1a3-51. 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													
0%	19	48	39	31	50	63	108	191	249	305	244	154	126
10%	64	55	51	63	82	137	184	215	273	339	277	181	148
25%	85	60	75	114	213	194	205	233	301	375	293	187	186
50%	121	84	153	292	390	329	316	321	395	443	361	219	241
75%	162	114	528	733	979	538	420	492	590	742	656	385	361
90%	228	245	847	1,325	1,440	908	660	598	703	839	707	425	470
100%	1,244	772	1,554	2,993	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													
0%	24	43	34	33	52	68	93	163	201	246	199	124	101
10%	54	47	45	71	95	140	155	181	222	270	218	144	127
25%	70	53	75	133	255	208	185	192	243	298	233	149	179
50%	105	82	185	366	494	398	311	262	281	328	276	162	230
75%	146	124	669	928	1,220	667	462	477	542	703	598	373	377
90%	174	295	1,089	1,550	1,550	1,143	704	627	665	818	698	421	477
100%	1,246	973	1,554	1,977	4,816	6,316	1,595	724	793	938	794	596	940
Mean	125	134	408	582	712	571	392	342	394	477	396	243	287
55 w/WSAs													
0%	69	60	40	16	4	32	85	238	390	484	375	205	166
10%	92	67	54	43	47	82	225	322	433	535	441	286	178
25%	116	74	67	57	74	156	278	371	498	608	471	299	208
50%	158	86	107	136	249	303	354	448	545	690	555	354	260
75%	194	97	263	590	601	503	452	554	651	789	666	395	331
90%	238	167	716	750	750	750	680	630	731	838	711	424	422
100%	1,254	717	1,186	2,698	5,464	6,316	2,516	786	811	935	794	596	1,001
Mean	167	112	224	324	451	442	416	464	569	690	570	351	289
55													
0%	30	38	29	39	51	76	81	129	153	189	151	82	82
10%	45	42	40	73	108	142	128	143	170	206	164	109	115
25%	57	47	72	157	304	231	165	158	187	221	177	113	167
50%	80	84	219	443	586	453	299	202	221	244	205	120	237
75%	121	140	814	1,129	1,494	785	504	478	514	692	567	341	386
90%	165	329	1,329	1,550	1,550	1,396	785	647	665	814	698	421	501
100%	1,246	1,178	1,553	1,553	4,015	4,518	1,615	786	809	938	794	596	845
Mean	111	147	473	653	777	613	406	314	338	407	338	207	288
65													
0%	31	33	25	47	49	68	71	91	105	131	101	60	62
10%	36	36	36	82	122	139	95	103	121	138	112	71	104
25%	43	40	76	179	345	247	148	116	130	150	119	76	163
50%	57	83	259	524	693	520	314	156	150	164	135	81	235
75%	120	154	955	1,329	1,550	916	539	476	508	672	548	297	399
90%	163	372	1,542	1,550	1,550	1,550	887	661	665	798	690	408	519
100%	1,246	1,371	1,553	1,575	3,286	3,743	1,608	849	785	927	794	596	816
Mean	97	160	527	719	826	670	422	288	286	340	284	173	288

Table H1a3-52. 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												
C	110	67	135	158	223	233	186	254	312	365	312	197
D	126	105	219	187	345	280	277	315	416	482	384	239
BN	139	86	207	330	499	347	299	319	400	477	384	234
AN	117	121	351	728	772	449	371	379	533	585	515	309
W	176	186	594	939	1,203	918	607	517	567	742	614	374
All	140	122	333	503	667	499	378	375	456	553	458	281
45												
C	91	59	157	195	271	245	157	201	245	286	244	153
D	106	112	271	231	431	333	263	258	332	382	306	190
BN	121	87	251	419	619	425	310	278	336	394	321	194
AN	101	135	424	843	928	563	386	342	427	478	412	252
W	167	219	735	1,045	1,127	1,015	668	519	542	702	582	356
All	125	134	408	582	712	571	392	342	394	477	396	243
55 w/WSAs												
C	143	81	88	123	106	190	274	408	518	615	526	331
D	154	99	155	150	213	231	333	448	611	719	570	355
BN	165	87	162	197	260	219	293	397	524	630	510	310
AN	157	107	219	324	433	409	411	426	599	660	587	352
W	194	158	390	640	937	886	631	564	583	758	624	383
All	167	112	224	324	451	442	416	464	569	690	570	351
55												
C	73	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	314	229	259	296	244	148
AN	86	150	482	943	1,054	677	411	319	351	392	339	208
W	159	253	847	1,129	1,157	1,014	722	525	526	671	559	341
All	111	147	473	653	777	613	406	314	338	407	338	207
65												
C	57	46	202	271	354	259	113	115	131	147	124	78
D	78	128	366	323	566	438	240	164	179	205	160	99
BN	81	90	334	598	779	576	324	187	189	211	176	106
AN	73	165	541	1,025	1,113	793	432	301	284	310	273	165
W	151	288	934	1,203	1,185	1,072	778	530	508	637	533	324
All	97	160	527	719	826	670	422	288	286	340	284	173

H1a3.2.27 Putah Creek above Yolo Bypass (SWRCB Putah Creek)

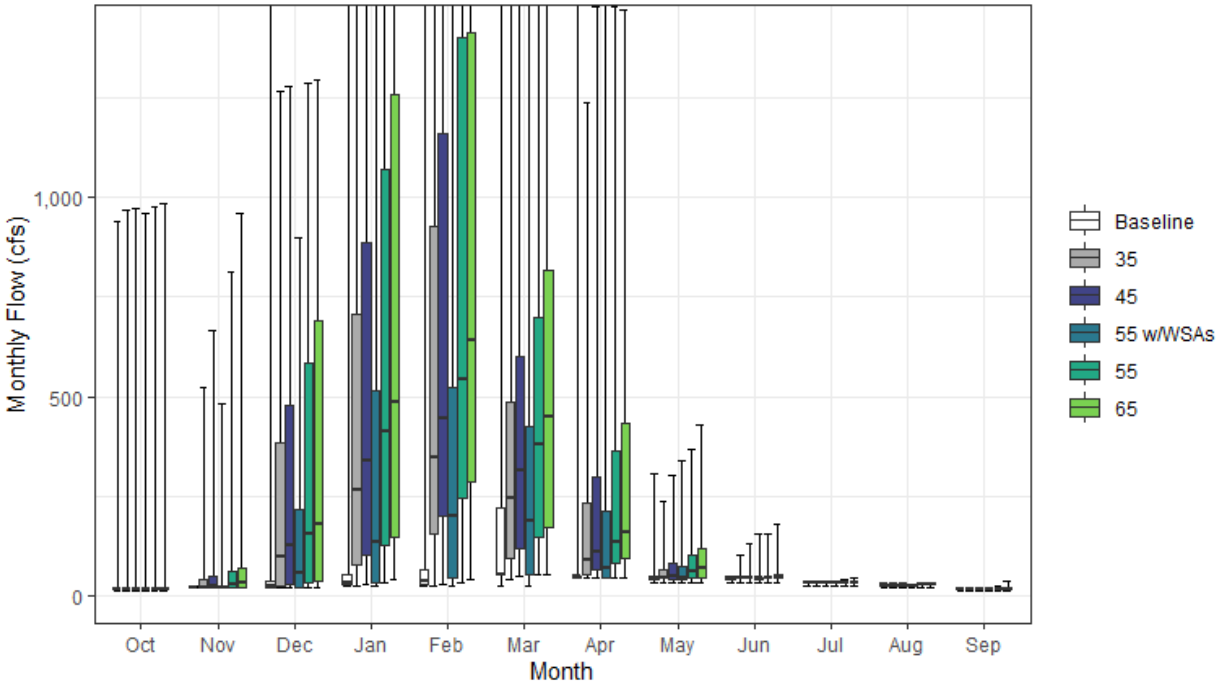

Figure H1a3-27. Putah Creek Streamflow above Yolo Bypass Monthly Boxplot (cfs)

Table H1a3-53. 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													
0%	11	18	18	22	23	39	43	32	32	24	19	12	23
10%	14	19	20	42	53	53	46	40	42	32	25	14	39
25%	16	20	25	78	154	92	50	42	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	233	64	43	33	26	16	184
90%	18	140	630	1,209	1,330	813	558	130	44	34	27	17	254
100%	967	521	1,267	2,874	4,923	5,724	1,238	235	102	34	28	20	741
Mean	27	58	241	467	607	407	205	65	44	33	25	16	131
45													
0%	11	18	18	27	27	48	43	31	31	24	19	11	23
10%	14	19	20	53	65	65	44	40	42	31	25	14	46
25%	16	20	26	101	198	118	65	41	42	32	25	15	69
50%	16	22	125	337	445	313	111	49	43	33	26	16	126
75%	17	50	478	887	1,161	599	297	81	44	33	26	16	222
90%	19	182	812	1,417	1,459	1,019	644	169	51	34	27	17	275
100%	974	666	1,280	1,965	4,505	5,724	1,480	301	128	35	28	20	664
Mean	28	71	299	542	652	479	244	77	46	32	25	16	150
55 w/WSAs													
0%	11	18	18	22	23	24	43	31	31	24	19	11	19
10%	14	18	19	23	28	50	43	40	40	31	25	14	22
25%	16	18	21	31	46	50	44	40	42	31	25	15	30
50%	16	20	55	134	200	186	68	43	42	32	25	16	70
75%	17	24	214	516	524	426	212	72	44	33	26	16	127
90%	17	83	531	692	746	683	508	155	50	34	27	17	189
100%	960	481	900	2,610	5,085	5,724	2,324	339	156	36	28	21	723
Mean	26	43	157	300	406	341	193	72	46	32	25	15	99
55													
0%	12	18	19	33	33	50	43	31	32	24	19	11	25
10%	15	19	20	65	80	79	44	40	42	32	25	14	54
25%	16	20	31	124	242	145	79	42	42	32	25	16	82
50%	16	26	152	412	542	381	136	59	43	33	26	16	151
75%	17	59	582	1,073	1,404	697	364	101	45	33	26	17	228
90%	22	221	988	1,450	1,467	1,245	659	207	61	34	27	17	299
100%	979	814	1,287	1,661	3,788	4,114	1,479	366	156	39	27	21	576
Mean	29	85	349	609	715	524	280	90	49	32	26	16	168
65													
0%	12	18	19	39	39	50	43	31	32	24	19	11	26
10%	16	19	20	77	94	94	45	40	42	32	25	14	61
25%	16	20	36	146	285	170	93	42	42	32	26	16	96
50%	16	30	179	487	640	450	160	69	43	33	26	16	169
75%	17	70	689	1,258	1,414	818	431	118	50	33	26	16	246
90%	26	261	1,119	1,461	1,481	1,395	759	242	78	34	27	17	331
100%	984	962	1,294	1,662	3,135	3,427	1,470	430	180	46	33	34	551
Mean	29	98	391	671	764	582	317	104	52	33	26	16	184

Table H1a3-54. 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												
C	16	20	91	143	181	128	52	42	41	32	25	15
D	16	45	155	156	300	196	96	49	42	33	26	16
BN	17	32	134	301	446	264	137	50	42	32	25	16
AN	17	58	258	692	724	376	166	79	43	33	26	16
W	51	103	446	883	1,114	813	426	93	49	33	25	16
All	27	58	241	467	607	407	205	65	44	33	25	16
45												
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	211	100	45	33	26	16
W	53	130	550	981	1,049	903	492	118	54	33	25	16
All	28	71	299	542	652	479	244	77	46	32	25	16
55 w/WSAs												
C	15	19	48	103	63	50	44	39	39	30	24	14
D	16	33	103	116	174	133	63	44	41	31	25	15
BN	17	26	98	177	228	144	83	44	41	31	25	15
AN	17	37	155	321	412	331	166	80	43	33	26	16
W	50	76	293	610	870	778	448	124	56	33	26	16
All	26	43	157	300	406	341	193	72	46	32	25	15
55												
C	17	22	132	220	279	191	61	43	41	31	25	15
D	16	64	237	243	449	306	142	57	43	32	26	16
BN	18	43	206	469	648	413	214	64	45	32	25	16
AN	19	89	361	893	985	591	258	121	49	33	26	16
W	54	158	634	1,059	1,078	906	548	144	61	33	26	16
All	29	85	349	609	715	524	280	90	49	32	26	16
65												
C	18	24	153	259	327	209	67	46	42	31	25	15
D	16	73	271	287	507	361	166	62	44	32	26	17
BN	19	48	237	553	716	483	252	72	45	32	26	16
AN	21	104	407	970	1,041	698	305	143	53	34	26	16
W	56	186	699	1,128	1,106	960	605	170	67	34	26	16
All	29	98	391	671	764	582	317	104	52	33	26	16

H1a3.2.28 Sacramento River below Shasta Reservoir (SWRCB Shasta)

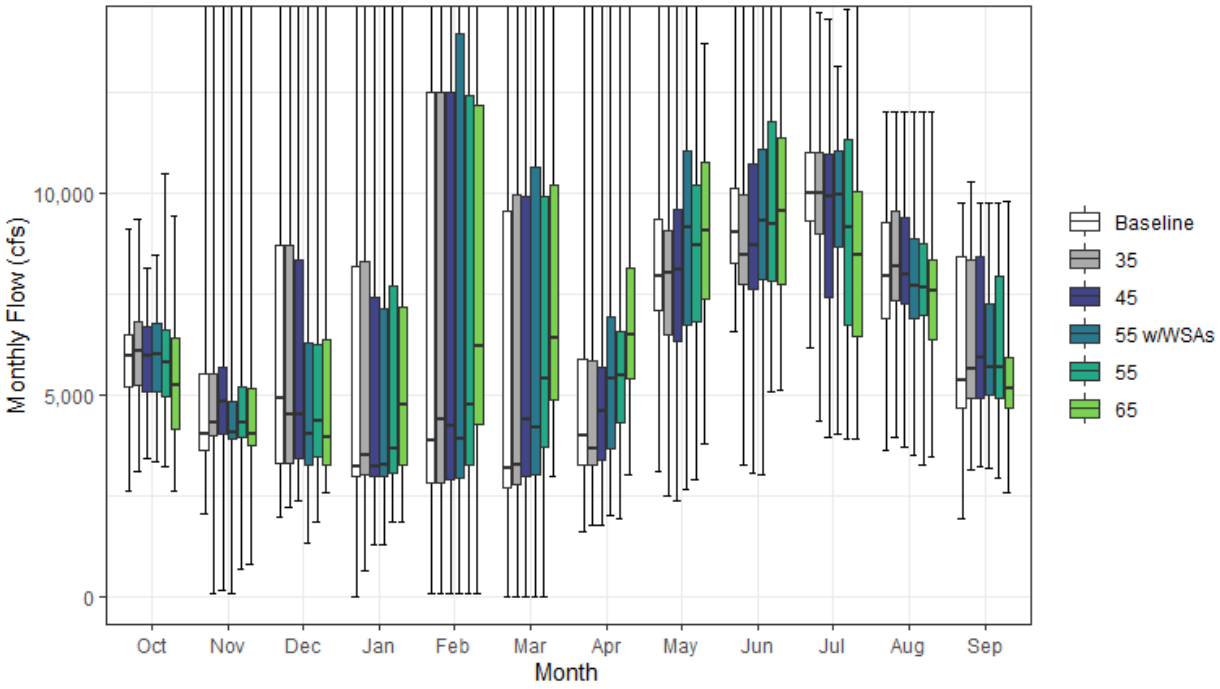

Figure H1a3-28. Sacramento River Streamflow below Shasta Reservoir Monthly Boxplot (cfs)

Table H1a3-55. 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													
0%	3,106	78	2,217	634	55	0	1,743	2,473	3,267	4,335	3,929	3,147	3,136
10%	4,575	3,494	3,100	2,417	2,174	2,357	3,208	5,258	6,096	6,059	6,294	4,498	3,561
25%	5,230	3,967	3,283	3,013	2,814	2,777	3,253	6,500	7,726	9,006	7,313	4,923	4,103
50%	6,097	4,309	4,522	3,493	4,372	3,248	3,659	8,013	8,459	9,979	8,181	5,639	5,130
75%	6,813	5,512	8,715	8,285	12,512	9,960	5,831	9,086	9,946	10,988	9,542	8,342	6,468
90%	7,458	7,534	16,111	18,606	28,490	17,885	10,673	10,992	11,416	12,212	10,748	8,898	8,270
100%	9,362	26,149	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,467	12,022	10,287	10,669
Mean	6,032	5,092	7,041	7,591	9,807	7,739	5,744	8,141	8,972	9,645	8,379	6,447	5,468
45													
0%	3,405	149	2,355	1,298	55	0	1,743	2,372	3,042	3,944	3,686	3,217	3,182
10%	4,604	3,536	3,223	2,492	2,351	2,540	3,250	5,489	6,315	5,804	6,373	4,496	3,550
25%	5,065	4,023	3,404	2,990	2,885	2,956	3,373	6,326	7,612	7,425	7,260	4,902	4,019
50%	5,956	4,810	4,527	3,236	4,222	4,396	4,591	8,095	8,714	9,918	7,965	5,928	5,013
75%	6,697	5,671	8,338	7,429	12,512	9,911	5,670	9,581	10,720	10,968	9,403	8,440	6,502
90%	7,185	6,714	14,764	18,606	28,490	17,885	10,673	10,836	12,090	12,774	10,985	8,889	8,163
100%	8,124	20,959	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,304	12,022	9,772	10,669
Mean	5,895	5,103	6,916	7,431	9,760	7,859	6,024	8,190	9,334	9,364	8,340	6,452	5,469
55 w/WSAs													
0%	3,334	85	1,332	1,298	55	0	1,986	2,667	2,996	4,036	3,502	3,187	2,880
10%	4,078	3,352	3,022	2,425	2,315	2,699	3,252	5,547	6,625	5,921	5,978	4,484	3,516
25%	5,075	3,888	3,261	2,985	2,919	3,000	3,671	6,738	7,859	8,674	6,885	5,002	4,153
50%	6,015	4,068	4,011	3,249	3,902	4,197	5,393	9,167	9,309	9,935	7,695	5,672	4,807
75%	6,778	4,842	6,282	7,143	13,947	10,637	6,919	11,059	11,075	11,034	8,877	7,232	6,558
90%	7,269	5,773	14,366	18,434	28,708	18,031	10,673	12,173	12,035	11,787	9,743	8,617	8,063
100%	8,471	24,203	27,665	48,623	49,683	44,066	28,864	17,628	29,676	13,142	12,022	9,772	10,669
Mean	5,893	4,582	6,341	7,252	9,811	8,030	6,584	9,062	9,506	9,464	7,884	6,230	5,467
55													
0%	3,206	676	1,862	1,843	50	0	1,925	2,897	5,063	3,897	3,265	2,948	3,042
10%	4,077	3,302	3,189	2,829	2,887	3,191	3,605	6,066	6,720	5,488	6,066	4,570	3,609
25%	4,934	3,936	3,460	3,072	3,239	3,702	4,318	6,819	7,828	6,707	6,971	4,930	4,052
50%	5,813	4,298	4,356	3,664	4,740	5,408	5,469	8,708	9,240	9,135	7,640	5,672	4,880
75%	6,598	5,180	6,228	7,708	12,421	9,909	6,583	10,192	11,790	11,325	8,738	7,939	6,540
90%	7,222	6,768	12,835	17,711	27,598	17,148	10,673	11,199	13,353	13,346	10,465	8,733	8,019
100%	10,477	15,949	27,665	48,623	49,683	44,066	28,864	17,628	29,676	14,567	12,022	9,772	10,669
Mean	5,814	4,786	6,272	7,372	9,829	8,295	6,668	8,622	9,886	9,090	7,861	6,288	5,474
65													
0%	2,612	783	2,551	1,842	50	2,959	3,004	3,763	5,118	3,899	3,445	2,552	3,160
10%	3,242	3,366	3,139	3,009	3,134	3,971	4,434	6,456	6,864	5,059	5,515	4,277	3,651
25%	4,138	3,753	3,246	3,237	4,253	4,879	5,406	7,383	7,723	6,430	6,351	4,662	3,980
50%	5,243	4,029	3,942	4,766	6,210	6,416	6,496	9,072	9,534	8,474	7,578	5,140	4,976
75%	6,411	5,160	6,366	7,160	12,168	10,213	8,143	10,774	11,386	10,024	8,361	5,928	6,708
90%	7,130	6,625	12,150	17,340	25,568	15,349	10,953	11,847	13,653	11,439	9,441	8,271	8,265
100%	9,446	17,448	27,648	48,624	45,546	44,067	28,113	13,705	28,464	16,100	12,025	9,775	10,671
Mean	5,295	4,741	5,920	7,675	10,281	8,921	7,627	9,084	9,909	8,359	7,481	5,578	5,477

Table H1a3-56. 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												
C	5,545	4,697	4,345	4,067	2,891	3,690	3,704	5,653	6,631	6,218	7,981	5,066
D	5,994	4,814	4,884	3,652	2,792	3,771	3,745	8,044	9,406	9,462	8,072	5,041
BN	6,193	4,502	5,062	3,783	7,903	3,781	4,366	8,034	9,652	11,388	7,922	5,335
AN	6,019	5,067	5,634	7,062	14,206	9,565	4,940	9,173	8,783	11,015	7,328	7,636
W	6,223	5,889	11,875	14,983	18,086	14,586	9,492	9,195	9,547	9,955	9,525	8,443
All	6,032	5,092	7,041	7,591	9,807	7,739	5,744	8,141	8,972	9,645	8,379	6,447
45												
C	5,309	4,844	4,068	3,433	3,363	4,094	4,038	5,871	6,497	5,696	7,862	5,001
D	5,689	4,851	4,675	3,446	2,969	3,878	4,389	7,639	9,120	8,408	8,373	5,164
BN	5,978	4,721	5,272	3,706	7,402	4,236	4,553	8,338	10,223	11,065	8,244	5,367
AN	6,071	5,004	5,726	7,026	13,949	9,064	4,968	9,351	10,036	11,352	7,072	7,982
W	6,235	5,708	11,596	15,008	17,968	14,600	9,637	9,273	10,159	10,148	9,139	8,247
All	5,895	5,103	6,916	7,431	9,760	7,859	6,024	8,190	9,334	9,364	8,340	6,452
55 w/WSAs												
C	5,712	3,951	3,395	3,151	2,839	3,527	3,775	5,701	6,473	5,606	7,064	5,720
D	5,567	4,271	4,418	3,508	2,972	4,173	5,414	8,169	8,370	9,795	7,666	5,119
BN	6,029	4,243	5,064	3,429	7,392	4,839	5,370	9,466	10,305	10,882	7,907	5,154
AN	5,756	4,141	5,334	6,772	15,124	9,273	5,540	11,188	10,608	10,368	6,955	7,250
W	6,196	5,537	10,535	14,797	17,951	14,783	10,128	10,404	11,009	10,019	8,839	7,589
All	5,893	4,582	6,341	7,252	9,811	8,030	6,584	9,062	9,506	9,464	7,884	6,230
55												
C	4,982	4,455	3,820	3,280	3,430	4,297	4,587	6,128	6,541	5,230	6,341	5,004
D	5,511	4,402	4,295	3,574	3,737	4,824	5,537	8,131	9,135	7,317	7,436	5,189
BN	5,800	4,391	4,953	3,978	6,964	5,079	5,256	8,722	10,291	10,863	8,400	5,144
AN	6,354	4,154	5,339	7,190	13,874	9,240	5,493	10,223	11,533	11,387	7,298	7,641
W	6,272	5,747	10,239	14,563	17,906	14,630	9,972	9,608	11,306	10,407	8,867	7,963
All	5,814	4,786	6,272	7,372	9,829	8,295	6,668	8,622	9,886	9,090	7,861	6,288
65												
C	4,395	4,422	3,819	4,705	3,663	4,736	5,057	6,675	6,613	5,130	5,678	4,727
D	4,823	4,513	4,099	3,780	5,013	6,205	6,162	8,098	8,510	6,512	6,442	4,679
BN	5,321	4,113	4,506	4,517	7,892	6,602	6,731	9,105	9,679	8,479	7,947	4,935
AN	5,648	4,196	4,233	6,992	14,108	8,720	6,783	10,994	12,235	10,511	7,733	5,558
W	5,963	5,696	9,948	14,388	17,656	14,694	10,976	10,314	11,907	10,498	8,809	7,106
All	5,295	4,741	5,920	7,675	10,281	8,921	7,627	9,084	9,909	8,359	7,481	5,578

H1a3.2.29 Sacramento River above Bend Bridge (SWRCB Sac Abv Bend Bridge)

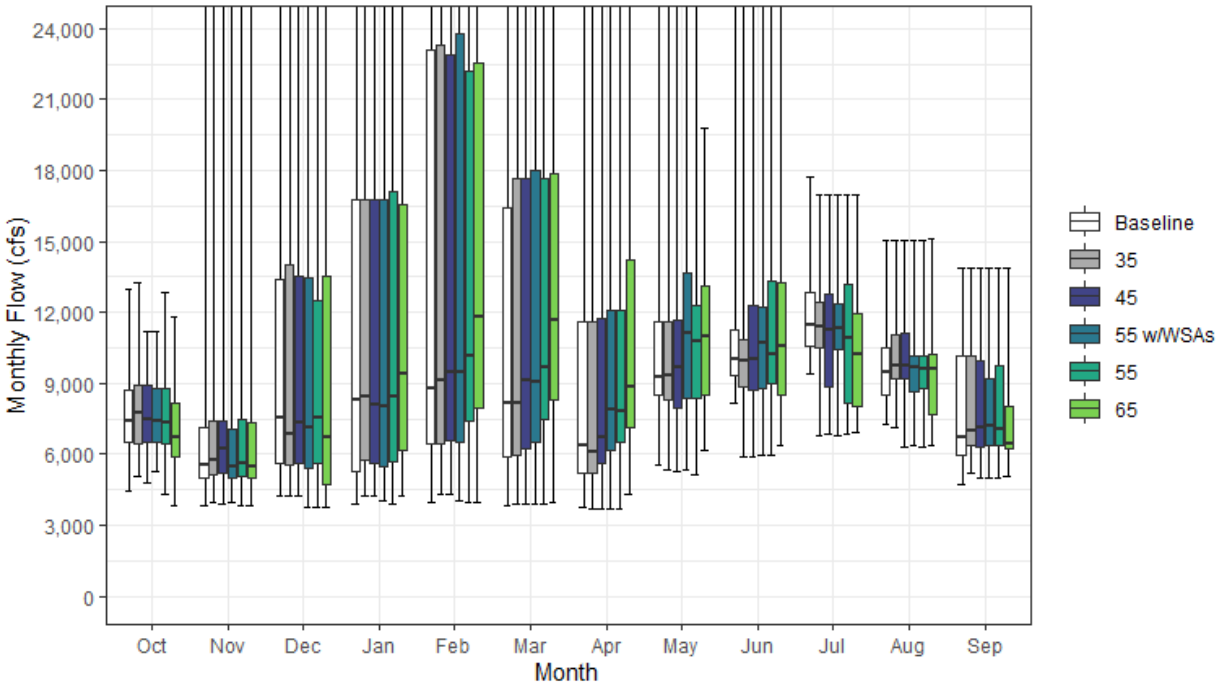

Figure H1a3-29. Sacramento River Streamflow above Bend Bridge Monthly Boxplot (cfs)

Table H1a3-57. 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													
0%	5,102	3,939	4,232	4,232	4,343	3,915	3,689	5,340	5,882	6,810	7,106	5,214	4,016
10%	5,953	4,850	4,754	4,679	5,502	5,149	4,647	6,361	6,824	7,630	8,443	5,957	4,834
25%	6,474	5,133	5,536	5,751	6,428	5,958	5,201	8,319	8,859	10,502	9,188	6,346	5,669
50%	7,733	5,792	6,840	8,436	9,104	8,169	6,102	9,360	9,958	11,413	9,741	6,988	7,194
75%	8,918	7,412	14,038	16,801	23,320	17,657	11,618	11,636	10,844	12,413	11,031	10,190	9,733
90%	9,802	10,465	27,102	33,909	43,532	29,989	18,218	14,798	13,140	14,267	12,628	11,475	12,591
100%	13,253	35,145	42,071	74,705	83,601	73,277	44,397	26,534	30,912	16,959	15,072	13,888	17,709
Mean	7,788	7,061	11,720	14,407	17,767	14,163	9,542	10,210	10,209	11,366	10,132	8,168	7,983
45													
0%	4,768	3,927	4,232	4,235	4,343	3,915	3,704	5,295	5,927	6,840	6,277	5,001	4,132
10%	5,729	4,869	4,922	4,610	5,757	5,449	4,860	6,672	7,095	7,502	8,282	6,095	4,776
25%	6,531	5,200	5,618	5,587	6,605	6,273	5,615	7,943	8,719	8,837	9,218	6,342	5,645
50%	7,494	6,208	7,349	8,099	9,508	9,102	6,706	9,654	10,014	11,255	9,751	7,104	7,152
75%	8,919	7,408	13,532	16,801	22,888	17,657	11,731	11,662	12,301	12,796	11,135	9,975	9,800
90%	9,772	10,290	26,508	33,909	43,532	29,978	18,218	14,512	13,483	14,458	12,464	11,386	12,518
100%	11,202	30,046	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,659	7,073	11,597	14,249	17,721	14,281	9,836	10,252	10,566	11,100	10,097	8,174	7,986
55 w/WSAs													
0%	5,277	3,947	3,754	4,063	4,009	3,932	3,689	5,340	5,983	6,809	6,352	4,995	3,904
10%	5,733	4,793	4,515	4,619	5,426	5,297	4,680	6,538	7,246	7,697	7,896	6,143	4,763
25%	6,517	4,995	5,421	5,476	6,545	6,521	6,150	8,350	8,785	10,428	8,646	6,350	5,665
50%	7,422	5,478	7,128	8,046	9,499	9,082	7,884	11,101	10,706	11,328	9,660	7,237	7,173
75%	8,771	7,099	13,463	16,801	23,780	18,004	12,082	13,703	12,236	12,395	10,137	9,229	9,781
90%	9,707	8,987	25,093	33,909	43,638	29,978	18,218	15,006	13,251	13,706	11,617	11,061	12,611
100%	11,202	33,234	42,071	74,705	83,601	73,277	44,397	26,489	30,912	16,959	15,072	13,888	17,709
Mean	7,653	6,560	11,033	14,073	17,771	14,449	10,385	11,107	10,733	11,187	9,648	7,950	7,983
55													
0%	4,310	3,862	3,741	3,867	3,989	3,923	3,722	5,138	5,965	6,865	6,319	5,035	3,861
10%	5,550	4,811	4,551	4,828	5,983	5,801	5,356	6,870	7,463	7,512	7,423	6,039	4,786
25%	6,414	5,091	5,593	5,705	7,380	7,494	6,548	8,360	9,007	8,183	8,818	6,370	5,728
50%	7,316	5,633	7,515	8,436	10,138	9,701	7,794	10,756	10,249	10,886	9,641	7,088	6,855
75%	8,784	7,447	12,480	17,090	22,237	17,657	12,082	12,292	13,316	13,168	10,157	9,771	9,889
90%	9,770	9,105	25,162	32,455	43,532	29,913	17,881	14,246	15,167	14,977	12,315	11,270	12,743
100%	12,839	25,124	42,071	74,705	83,601	73,277	44,397	26,428	30,912	16,959	15,072	13,888	17,709
Mean	7,578	6,760	10,964	14,191	17,789	14,710	10,491	10,672	11,113	10,847	9,640	8,019	7,995
65													
0%	3,838	3,830	3,742	4,229	3,988	3,937	4,321	6,154	6,380	6,940	6,383	5,036	4,040
10%	4,750	4,702	4,335	4,868	4,772	6,103	6,176	7,255	7,399	7,509	6,527	5,717	4,795
25%	5,904	5,026	4,699	6,197	7,977	8,320	7,136	8,519	8,493	8,002	7,656	6,232	5,602
50%	6,748	5,516	6,703	9,402	11,796	11,676	8,831	11,016	10,602	10,224	9,584	6,417	6,982
75%	8,145	7,371	13,511	16,576	22,562	17,897	14,209	13,149	13,267	11,974	10,239	8,015	9,955
90%	9,567	9,534	21,420	33,083	41,124	26,569	19,890	15,455	14,980	13,570	11,426	10,396	12,650
100%	11,801	26,596	42,072	74,705	79,529	73,277	44,399	19,766	29,721	16,980	15,098	13,877	17,712
Mean	7,069	6,716	10,617	14,488	18,232	15,326	11,463	11,133	11,148	10,152	9,282	7,352	8,005

Table H1a3-58. 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												
C	6,842	5,663	6,428	6,358	6,281	6,045	4,554	6,407	7,347	8,285	9,045	5,873
D	7,578	6,594	7,974	6,412	8,313	8,236	5,548	8,981	10,235	10,925	9,831	6,641
BN	7,912	6,073	7,843	9,367	14,097	8,817	7,775	9,485	10,583	12,442	9,455	6,746
AN	7,844	6,969	10,258	16,481	23,873	18,013	9,628	12,156	10,072	12,711	9,341	9,657
W	8,345	8,812	20,328	26,924	30,709	24,685	16,215	12,819	11,534	12,112	11,678	10,819
All	7,788	7,061	11,720	14,407	17,767	14,163	9,542	10,210	10,209	11,366	10,132	8,168
45												
C	6,620	5,809	6,155	5,734	6,745	6,443	4,897	6,623	7,221	7,787	8,936	5,814
D	7,282	6,631	7,768	6,209	8,487	8,340	6,210	8,577	9,955	9,922	10,135	6,760
BN	7,709	6,288	8,049	9,291	13,604	9,265	7,982	9,779	11,144	12,132	9,774	6,775
AN	7,907	6,907	10,347	16,445	23,620	17,519	9,679	12,312	11,304	13,041	9,089	9,995
W	8,359	8,634	20,054	26,949	30,593	24,699	16,368	12,891	12,135	12,299	11,297	10,627
All	7,659	7,073	11,597	14,249	17,721	14,281	9,836	10,252	10,566	11,100	10,097	8,174
55 w/WSAs												
C	7,007	4,930	5,495	5,457	6,230	5,887	4,625	6,450	7,188	7,701	8,150	6,484
D	7,171	6,060	7,516	6,270	8,490	8,631	7,200	9,102	9,223	11,247	9,438	6,717
BN	7,746	5,819	7,845	9,018	13,594	9,858	8,788	10,884	11,220	11,939	9,442	6,568
AN	7,588	6,061	9,964	16,195	24,777	17,724	10,246	14,114	11,867	12,076	8,975	9,278
W	8,319	8,466	19,011	26,741	30,577	24,879	16,859	14,000	12,970	12,171	11,001	9,981
All	7,653	6,560	11,033	14,073	17,771	14,449	10,385	11,107	10,733	11,187	9,648	7,950
55												
C	6,298	5,425	5,911	5,582	6,810	6,645	5,450	6,876	7,274	7,372	7,491	5,836
D	7,101	6,189	7,395	6,334	9,243	9,272	7,373	9,063	9,975	8,878	9,248	6,794
BN	7,544	5,964	7,735	9,559	13,172	10,095	8,695	10,162	11,219	11,955	9,920	6,562
AN	8,178	6,071	9,967	16,607	23,546	17,692	10,226	13,139	12,781	13,075	9,311	9,661
W	8,391	8,672	18,720	26,511	30,532	24,729	16,711	13,212	13,262	12,553	11,028	10,348
All	7,578	6,760	10,964	14,191	17,789	14,710	10,491	10,672	11,113	10,847	9,640	8,019
65												
C	5,735	5,390	5,908	6,983	7,037	7,078	5,926	7,426	7,366	7,304	6,895	5,594
D	6,427	6,296	7,201	6,537	10,498	10,631	8,026	9,049	9,350	8,120	8,249	6,347
BN	7,082	5,691	7,295	10,087	14,084	11,592	10,174	10,566	10,651	9,649	9,515	6,384
AN	7,479	6,113	8,879	16,411	23,776	17,180	11,535	13,867	13,490	12,229	9,749	7,662
W	8,080	8,621	18,433	26,339	30,284	24,791	17,725	13,902	13,861	12,649	10,979	9,515
All	7,069	6,716	10,617	14,488	18,232	15,326	11,463	11,133	11,148	10,152	9,282	7,352

H1a3.2.30 Sacramento River below Wilkins Slough (SWRCB Sac Blw Wilkins Slough)

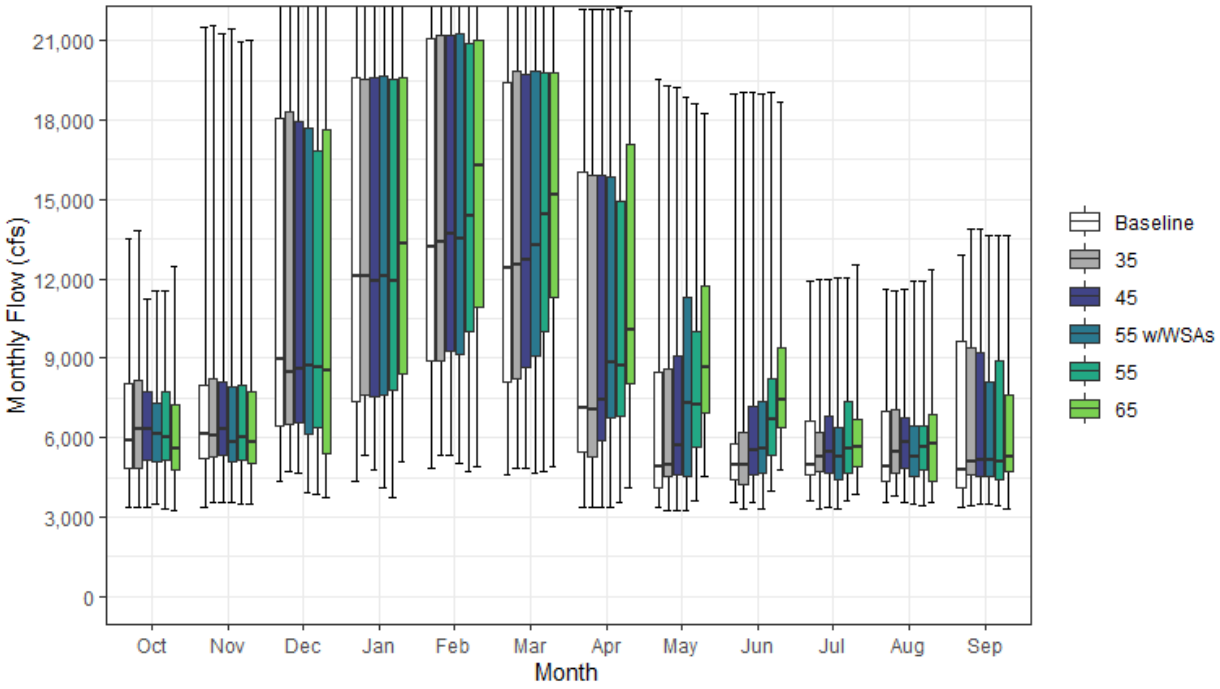

Figure H1a3-30. Sacramento River Streamflow below Wilkins Slough Monthly Boxplot (cfs)

Table H1a3-59. 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													
0%	3,351	3,554	4,715	5,317	5,327	4,830	3,347	3,266	3,286	3,293	3,823	3,414	3,492
10%	4,520	4,775	5,519	6,041	6,933	7,073	4,584	3,625	3,858	3,877	4,306	4,290	4,205
25%	4,870	5,267	6,508	7,608	8,907	8,191	5,262	4,516	4,211	4,696	4,681	4,618	4,889
50%	6,325	6,099	8,497	12,102	13,368	12,546	7,029	4,966	4,977	5,264	5,469	5,067	6,178
75%	8,155	8,195	18,336	19,566	21,196	19,833	15,907	8,586	6,222	6,169	7,058	9,390	8,028
90%	9,394	12,287	21,196	21,894	22,510	21,584	19,737	13,762	7,935	8,185	9,128	10,364	9,309
100%	13,801	21,551	22,568	23,658	24,651	23,824	22,181	19,304	19,033	11,989	11,553	13,869	11,943
Mean	6,683	7,431	11,511	13,533	14,779	13,808	9,915	7,097	5,699	5,719	6,116	6,793	6,567
45													
0%	3,339	3,546	4,677	4,799	5,341	4,820	3,347	3,266	3,532	3,349	3,530	3,460	3,437
10%	4,377	4,636	5,393	5,918	7,490	7,364	4,881	3,967	4,146	3,915	4,212	4,260	4,267
25%	5,128	5,353	6,591	7,568	9,295	8,682	5,876	4,599	4,610	4,663	4,870	4,534	5,047
50%	6,299	6,329	8,561	11,900	13,683	12,696	7,430	5,680	5,539	5,424	5,800	5,119	6,376
75%	7,753	8,094	17,956	19,589	21,187	19,707	15,905	9,086	7,196	6,819	6,719	9,209	8,151
90%	9,480	11,873	21,218	21,894	22,471	21,585	19,740	13,490	8,356	8,647	8,847	10,346	9,567
100%	11,228	21,274	22,568	23,608	24,652	23,824	22,180	19,242	19,037	12,003	11,583	13,906	11,959
Mean	6,619	7,424	11,490	13,396	14,911	14,031	10,265	7,415	6,238	5,837	6,076	6,777	6,651
55 w/WSAs													
0%	3,517	3,529	3,937	4,080	5,010	4,631	3,347	3,266	3,291	3,287	3,498	3,464	3,188
10%	4,610	4,344	4,937	5,677	7,313	7,053	4,642	3,684	3,771	3,774	3,866	4,161	4,186
25%	5,108	5,107	6,159	7,576	9,155	9,094	6,740	4,517	4,632	4,427	4,523	4,531	4,935
50%	6,157	5,836	8,727	12,101	13,484	13,251	8,816	7,296	5,584	5,269	5,292	5,136	6,297
75%	7,277	7,884	17,698	19,632	21,254	19,839	15,824	11,302	7,336	6,372	6,416	8,079	8,348
90%	9,645	9,963	21,120	21,882	22,511	21,585	19,773	13,318	9,258	7,311	8,341	10,117	9,362
100%	11,563	21,447	22,568	23,608	24,651	23,824	22,181	18,846	19,005	12,046	11,910	13,634	11,992
Mean	6,535	6,975	11,252	13,279	14,825	14,060	10,770	8,145	6,330	5,558	5,734	6,504	6,620
55													
0%	3,312	3,503	3,871	3,703	4,717	4,719	3,574	3,640	4,004	3,624	3,421	3,401	3,274
10%	4,499	4,548	4,880	5,829	7,607	8,185	5,766	4,800	4,645	4,258	4,045	3,960	4,555
25%	5,135	5,128	6,388	7,811	9,990	10,016	6,820	5,634	5,348	4,657	4,788	4,438	5,286
50%	6,020	5,985	8,646	11,899	14,387	14,436	8,704	7,209	6,669	5,574	5,646	5,100	6,479
75%	7,722	8,000	16,850	19,552	20,881	19,767	14,927	10,030	8,235	7,382	6,409	8,898	8,395
90%	9,610	10,718	21,056	21,886	22,510	21,467	19,749	13,228	10,272	8,691	7,597	10,230	9,624
100%	11,563	20,968	22,568	23,658	24,652	23,824	22,230	18,644	19,068	12,046	11,910	13,634	11,955
Mean	6,591	7,089	11,305	13,423	15,123	14,513	10,913	8,256	7,254	6,084	5,914	6,591	6,806
65													
0%	3,266	3,459	3,716	5,090	4,918	4,923	4,084	4,509	4,747	3,850	3,518	3,308	3,438
10%	4,262	4,270	4,527	6,069	6,596	7,831	6,710	5,970	5,670	4,490	4,037	4,271	4,505
25%	4,774	5,016	5,394	8,377	10,941	11,276	8,029	6,941	6,389	4,909	4,342	4,729	5,408
50%	5,580	5,823	8,522	13,330	16,281	15,143	10,087	8,647	7,429	5,630	5,777	5,274	6,668
75%	7,222	7,754	17,656	19,573	21,021	19,789	17,054	11,714	9,417	6,698	6,870	7,628	8,672
90%	9,622	10,679	20,523	21,814	22,392	21,463	19,841	14,499	11,535	8,278	7,832	10,240	9,636
100%	12,488	21,029	22,622	23,608	24,611	23,824	22,104	18,217	18,675	12,531	12,348	13,610	12,001
Mean	6,208	6,987	11,034	13,821	15,591	15,165	11,965	9,471	8,096	6,067	5,931	6,416	7,027

Table H1a3-60. 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												
C	5,300	5,382	7,475	8,144	8,621	7,866	4,419	3,871	4,487	4,372	5,870	4,070
D	6,325	6,930	9,326	8,415	11,223	10,651	5,745	4,675	5,220	4,774	4,814	4,827
BN	6,794	6,452	8,262	12,872	14,289	12,441	9,209	5,658	5,311	5,631	4,801	5,036
AN	6,692	7,616	11,314	17,569	18,626	18,375	12,088	8,596	5,357	6,876	5,704	8,761
W	7,609	9,435	17,403	18,964	19,443	18,330	15,482	10,907	7,080	6,722	8,199	10,012
All	6,683	7,431	11,511	13,533	14,779	13,808	9,915	7,097	5,699	5,719	6,116	6,793
45												
C	5,126	5,494	7,128	7,572	9,133	8,290	4,836	4,487	4,511	4,224	6,004	4,080
D	6,105	6,888	9,269	8,238	11,406	10,998	6,485	4,880	5,445	4,843	4,906	4,876
BN	6,690	6,608	8,487	12,911	14,281	12,779	9,481	6,131	6,040	5,833	4,972	4,932
AN	6,843	7,382	11,098	17,444	18,627	18,319	12,168	8,844	6,439	7,211	5,570	8,993
W	7,659	9,380	17,503	18,971	19,477	18,394	15,666	11,079	7,786	6,879	7,875	9,890
All	6,619	7,424	11,490	13,396	14,911	14,031	10,265	7,415	6,238	5,837	6,076	6,777
55 w/WSAs												
C	5,373	4,737	6,584	7,255	8,589	7,688	4,467	3,909	4,279	4,011	4,907	4,107
D	5,956	6,403	9,192	8,259	11,413	11,080	7,463	5,135	4,602	4,841	4,725	4,849
BN	6,627	6,168	8,306	12,659	14,102	13,165	10,362	7,134	6,006	5,219	4,804	4,824
AN	6,378	6,646	11,024	17,179	18,786	18,152	12,745	10,673	6,936	6,297	5,459	8,339
W	7,582	9,232	17,209	19,007	19,528	18,573	16,025	12,240	8,654	6,830	7,615	9,324
All	6,535	6,975	11,252	13,279	14,825	14,060	10,770	8,145	6,330	5,558	5,734	6,504
55												
C	5,130	4,992	6,732	7,366	9,160	8,478	5,528	5,261	5,234	4,356	4,797	4,222
D	5,976	6,424	9,118	8,310	12,041	11,999	7,665	6,373	6,356	4,988	5,161	4,529
BN	6,502	6,278	8,568	13,087	14,348	13,562	10,130	7,065	6,701	6,382	5,135	4,694
AN	7,064	6,681	11,042	17,523	18,610	18,431	12,657	9,664	8,233	7,205	5,700	8,787
W	7,689	9,371	17,188	18,975	19,660	18,610	15,966	11,427	8,949	7,171	7,641	9,689
All	6,591	7,089	11,305	13,423	15,123	14,513	10,913	8,256	7,254	6,084	5,914	6,591
65												
C	4,791	4,979	6,524	8,788	9,357	8,951	6,176	6,168	5,697	4,605	4,552	4,138
D	5,481	6,395	8,823	8,633	12,810	13,089	8,854	7,492	6,989	4,993	4,843	4,886
BN	6,166	5,968	8,021	13,214	14,842	14,677	11,638	8,627	7,636	5,509	4,910	5,069
AN	6,388	6,743	10,669	17,789	19,270	18,712	13,848	11,029	9,512	6,841	6,374	7,514
W	7,451	9,234	17,115	19,106	19,959	18,892	16,788	12,596	9,911	7,678	7,933	9,167
All	6,208	6,987	11,034	13,821	15,591	15,165	11,965	9,471	8,096	6,067	5,931	6,416

H1a3.2.31 Sacramento River at Knights Landing (SWRCB Sac at Knights Landing)

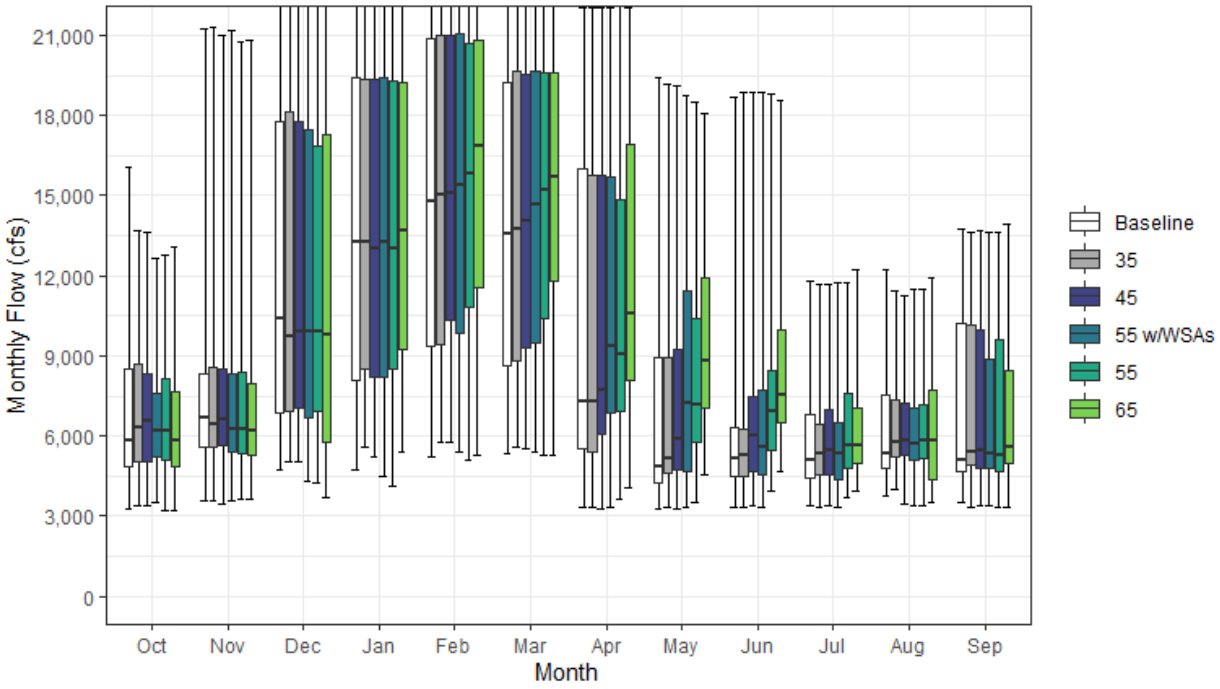

Figure H1a3-31. Sacramento River Streamflow at Knights Landing Monthly Boxplot (cfs)

Table H1a3-61. 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													
0%	3,389	3,590	5,051	5,565	5,767	5,597	3,341	3,304	3,304	3,351	4,023	3,355	3,610
10%	4,449	4,992	6,058	6,736	7,642	7,448	4,589	3,655	3,781	3,858	4,784	4,308	4,441
25%	5,008	5,576	6,919	8,483	9,448	8,835	5,391	4,623	4,475	4,570	5,228	4,903	5,105
50%	6,326	6,418	9,733	13,236	15,019	13,742	7,300	5,128	5,257	5,319	5,773	5,422	6,324
75%	8,716	8,576	18,120	19,374	20,994	19,653	15,784	8,963	6,228	6,451	7,378	10,136	8,323
90%	9,967	12,632	20,933	21,665	22,287	21,375	19,609	13,668	7,826	8,186	9,799	11,165	9,472
100%	13,705	21,297	22,300	23,406	24,392	23,579	22,041	19,181	18,877	11,689	11,440	13,620	11,927
Mean	6,897	7,713	12,005	13,993	15,204	14,145	10,060	7,122	5,864	5,778	6,574	7,238	6,779
45													
0%	3,364	3,481	5,049	5,202	5,770	5,525	3,289	3,294	3,415	3,404	3,483	3,404	3,555
10%	4,236	4,916	5,884	6,676	8,097	7,812	4,828	3,983	4,190	3,889	4,737	4,293	4,562
25%	5,060	5,670	7,039	8,179	10,321	9,302	6,079	4,730	4,698	4,533	5,285	4,802	5,244
50%	6,566	6,637	9,880	13,031	15,111	14,057	7,703	5,915	6,014	5,457	5,829	5,444	6,508
75%	8,317	8,488	17,746	19,374	20,985	19,529	15,782	9,254	7,455	6,981	7,218	9,957	8,439
90%	10,053	12,326	20,944	21,665	22,248	21,376	19,612	13,398	8,423	8,778	9,680	10,985	9,681
100%	13,601	21,024	22,300	23,357	24,394	23,579	22,040	19,120	18,852	11,703	11,278	13,657	11,943
Mean	6,846	7,708	11,978	13,835	15,332	14,360	10,405	7,477	6,410	5,929	6,486	7,200	6,861
55 w/WSAs													
0%	3,536	3,573	4,314	4,510	5,410	5,404	3,342	3,304	3,349	3,343	3,388	3,373	3,312
10%	4,682	4,566	5,463	6,529	7,869	7,458	4,610	3,590	3,665	3,722	4,206	4,342	4,444
25%	5,222	5,430	6,687	8,219	9,853	9,462	6,877	4,663	4,572	4,350	5,101	4,767	5,154
50%	6,224	6,239	9,883	13,235	15,413	14,685	9,366	7,241	5,575	5,318	5,697	5,341	6,493
75%	7,601	8,327	17,489	19,398	21,051	19,659	15,701	11,457	7,686	6,497	7,046	8,873	8,595
90%	10,202	10,308	20,828	21,656	22,287	21,376	19,645	13,433	9,818	7,484	8,825	10,896	9,541
100%	12,653	21,194	22,299	23,357	24,392	23,579	22,041	18,726	18,855	11,745	11,514	13,652	11,960
Mean	6,776	7,297	11,746	13,725	15,243	14,382	10,915	8,199	6,466	5,583	6,188	6,944	6,831
55													
0%	3,227	3,638	4,237	4,123	5,079	5,303	3,622	3,518	3,912	3,673	3,374	3,340	3,382
10%	4,468	4,687	5,222	6,604	8,234	8,723	5,837	4,729	4,818	4,243	4,155	4,000	4,704
25%	5,077	5,365	6,952	8,533	10,851	10,418	6,901	5,748	5,442	4,805	5,188	4,671	5,451
50%	6,204	6,252	9,882	12,988	15,789	15,220	9,085	7,185	6,918	5,620	5,828	5,269	6,691
75%	8,133	8,387	16,864	19,319	20,683	19,588	14,857	10,415	8,453	7,590	7,150	9,588	8,593
90%	10,233	11,137	20,789	21,659	22,286	21,260	19,621	13,516	10,740	8,474	8,439	10,941	9,724
100%	12,767	20,723	22,300	23,406	24,394	23,579	22,089	18,525	18,807	11,745	11,514	13,652	11,924
Mean	6,836	7,374	11,759	13,853	15,499	14,808	11,050	8,318	7,411	6,186	6,262	7,018	7,006
65													
0%	3,225	3,623	3,694	5,395	5,276	5,283	4,068	4,539	4,642	3,962	3,493	3,308	3,633
10%	4,382	4,360	4,907	6,849	6,944	8,258	6,760	6,021	5,686	4,472	4,025	4,240	4,725
25%	4,854	5,283	5,760	9,268	11,531	11,800	8,098	7,018	6,525	4,981	4,381	4,962	5,651
50%	5,832	6,199	9,783	13,705	16,846	15,687	10,605	8,811	7,543	5,621	5,840	5,595	6,973
75%	7,655	7,930	17,298	19,253	20,821	19,610	16,940	11,941	9,972	7,027	7,733	8,476	8,956
90%	10,077	11,103	20,248	21,588	22,170	21,249	19,711	14,816	11,953	8,604	8,808	10,895	9,774
100%	13,104	20,783	22,324	23,357	24,353	23,579	22,025	18,100	18,547	12,225	11,948	13,932	12,033
Mean	6,439	7,246	11,465	14,185	15,927	15,358	12,076	9,590	8,287	6,194	6,279	6,837	7,216

Table H1a3-62. 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												
C	5,338	5,598	8,086	8,867	9,673	8,460	4,404	3,837	4,468	4,360	5,828	4,028
D	6,504	7,178	10,133	9,201	11,905	11,231	5,889	4,635	5,202	4,685	5,117	5,186
BN	7,058	6,794	8,831	13,571	14,732	13,024	9,429	5,636	5,317	5,543	5,311	5,401
AN	6,823	7,935	11,957	17,739	18,834	18,346	12,307	8,746	5,602	7,108	6,441	9,423
W	7,944	9,726	17,496	19,008	19,419	18,343	15,637	10,990	7,546	6,953	8,893	10,745
All	6,897	7,713	12,005	13,993	15,204	14,145	10,060	7,122	5,864	5,778	6,574	7,238
45												
C	5,157	5,687	7,729	8,330	10,167	8,880	4,811	4,401	4,491	4,227	5,899	4,025
D	6,264	7,175	10,073	9,032	12,084	11,571	6,619	4,895	5,405	4,843	5,194	5,177
BN	6,927	6,896	9,072	13,488	14,725	13,356	9,709	6,167	6,055	5,773	5,401	5,259
AN	6,973	7,661	11,801	17,630	18,835	18,291	12,383	9,040	6,908	7,446	6,234	9,727
W	8,072	9,708	17,552	18,993	19,452	18,392	15,815	11,215	8,195	7,124	8,535	10,594
All	6,846	7,708	11,978	13,835	15,332	14,360	10,405	7,477	6,410	5,929	6,486	7,200
55 w/WSAs												
C	5,420	5,009	7,188	8,023	9,647	8,294	4,465	3,869	4,226	3,996	4,784	4,078
D	6,104	6,703	10,000	9,018	12,090	11,653	7,607	5,133	4,615	4,683	5,086	5,178
BN	6,883	6,511	8,896	13,245	14,547	13,637	10,580	7,120	5,918	5,064	5,378	5,174
AN	6,560	6,989	11,726	17,468	18,991	18,218	12,958	10,915	7,409	6,508	6,116	9,040
W	8,011	9,574	17,270	19,025	19,481	18,569	16,174	12,353	8,989	7,050	8,289	10,050
All	6,776	7,297	11,746	13,725	15,243	14,382	10,915	8,199	6,466	5,583	6,188	6,944
55												
C	5,172	5,146	7,243	8,119	9,994	9,062	5,498	5,193	5,201	4,345	4,736	4,178
D	6,145	6,663	9,871	9,082	12,704	12,523	7,755	6,396	6,396	5,052	5,223	4,778
BN	6,772	6,612	9,102	13,648	14,787	14,031	10,395	7,029	6,781	6,376	5,392	5,082
AN	7,234	7,060	11,660	17,677	18,816	18,399	12,865	9,852	8,517	7,412	6,449	9,478
W	8,111	9,692	17,275	19,009	19,610	18,605	16,116	11,598	9,293	7,389	8,313	10,418
All	6,836	7,374	11,759	13,853	15,499	14,808	11,050	8,318	7,411	6,186	6,262	7,018
65												
C	4,836	5,088	6,986	9,335	10,057	9,331	6,143	6,129	5,669	4,584	4,520	4,101
D	5,675	6,658	9,531	9,389	13,439	13,447	8,961	7,565	7,087	5,112	4,889	5,098
BN	6,412	6,284	8,540	13,746	15,256	15,042	11,837	8,683	7,741	5,469	5,050	5,368
AN	6,517	7,064	11,324	17,916	19,447	18,669	14,020	11,318	9,823	7,083	7,160	8,281
W	7,841	9,509	17,181	19,076	19,900	18,851	16,898	12,805	10,295	7,951	8,663	9,923
All	6,439	7,246	11,465	14,185	15,927	15,358	12,076	9,590	8,287	6,194	6,279	6,837

H1a3.2.32 Sacramento River at Freeport (SWRCB Sac at Freeport)

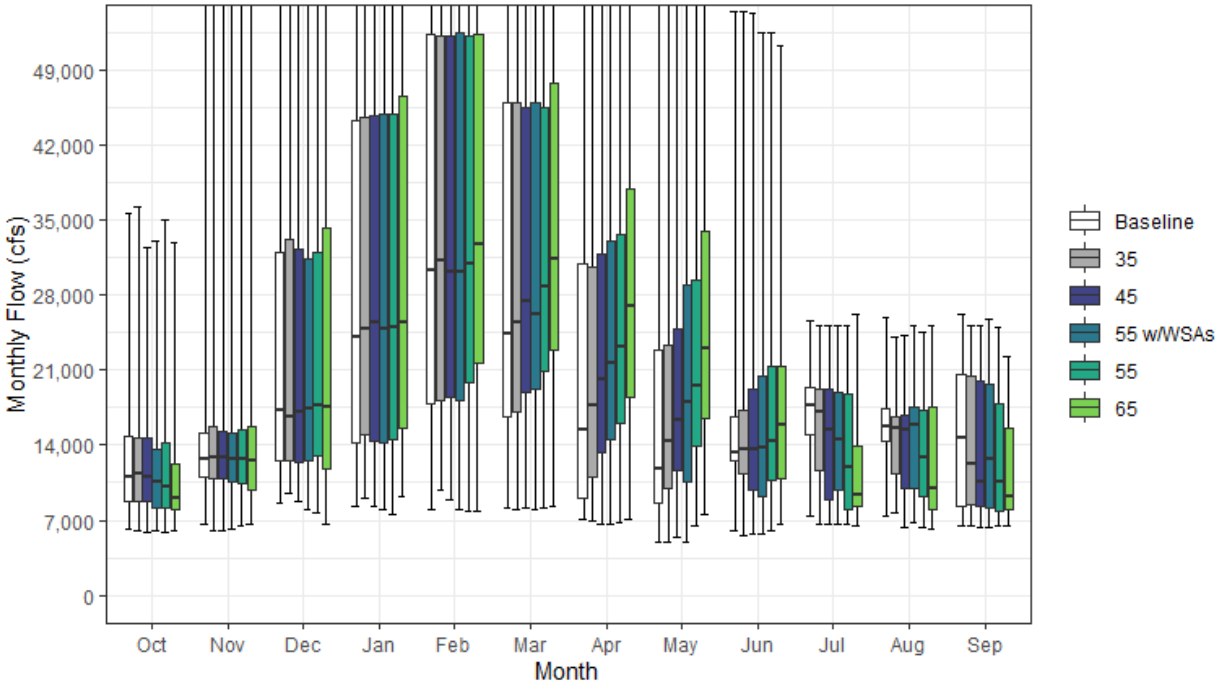

Figure H1a3-32. Sacramento River Streamflow at Freeport Monthly Boxplot (cfs)

Table H1a3-63. 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													
0%	6,036	5,995	9,441	9,087	9,804	8,045	6,856	5,015	5,583	6,575	7,662	6,444	5,908
10%	6,685	8,780	11,358	11,657	12,865	13,015	8,473	8,088	8,646	7,614	9,499	6,820	8,127
25%	8,773	10,897	12,493	14,978	18,192	17,112	11,014	9,941	11,390	11,626	11,290	8,505	10,257
50%	11,335	12,849	16,692	24,819	31,188	25,476	17,696	14,308	13,603	17,089	15,582	12,193	13,177
75%	14,713	15,678	33,128	44,616	52,193	45,881	30,534	23,254	17,271	19,157	16,716	20,485	19,834
90%	16,596	23,331	53,485	60,814	65,570	56,665	50,760	40,056	25,705	20,575	18,723	22,671	24,112
100%	36,207	57,045	73,001	75,589	76,969	74,297	70,671	55,820	54,388	25,086	24,065	25,093	32,195
Mean	11,995	14,925	25,128	30,846	35,499	31,454	23,479	18,791	16,195	15,391	14,606	14,442	15,210
45													
0%	5,945	5,953	8,784	8,340	8,904	8,117	6,586	5,469	5,759	6,590	6,398	6,400	5,840
10%	6,732	8,098	11,219	11,559	13,692	14,550	10,369	8,400	8,518	7,268	9,255	6,680	8,363
25%	8,736	10,938	12,458	14,384	18,492	18,991	13,364	11,644	9,821	8,838	10,022	8,310	10,251
50%	10,962	12,914	17,160	25,407	30,112	27,432	20,100	16,390	13,595	15,392	15,468	10,502	13,313
75%	14,644	15,294	32,336	44,741	52,183	45,407	31,758	24,845	19,156	19,232	16,787	19,968	20,067
90%	16,260	22,521	53,362	60,809	65,142	56,648	50,784	40,551	25,413	20,421	18,496	21,831	24,080
100%	32,417	57,136	72,388	75,585	76,865	74,297	70,648	55,829	54,295	25,110	24,173	25,107	32,205
Mean	11,838	14,834	25,202	30,821	35,747	32,078	24,978	20,174	16,468	14,387	14,002	13,669	15,296
55 w/WSAs													
0%	6,044	6,108	7,989	8,017	7,940	7,945	6,689	4,947	5,741	6,615	6,779	6,398	5,559
10%	6,625	7,858	10,136	11,479	13,678	13,369	8,996	8,086	8,460	7,392	9,127	7,330	8,085
25%	8,172	10,518	12,484	14,277	18,096	19,214	14,544	10,554	9,203	9,743	9,955	8,175	9,871
50%	10,506	12,650	17,459	24,765	30,105	26,210	21,635	18,008	13,781	14,510	15,925	12,731	13,486
75%	13,625	15,149	31,353	44,915	52,437	45,899	32,964	28,932	20,445	18,977	17,504	19,633	20,494
90%	16,504	20,564	52,971	59,903	64,723	56,623	50,825	40,271	27,360	20,280	18,491	21,038	24,187
100%	33,001	57,001	72,174	75,504	76,816	74,296	70,616	55,579	52,487	25,204	25,082	25,752	32,256
Mean	11,419	14,380	24,801	30,660	35,580	31,909	25,470	21,064	16,593	14,437	14,203	13,575	15,290
55													
0%	5,941	6,517	7,682	7,556	7,771	8,155	6,748	6,457	6,064	6,644	6,270	6,482	5,771
10%	6,515	8,255	10,010	11,314	14,237	16,141	11,942	9,728	8,534	7,195	7,688	6,676	8,487
25%	8,127	10,369	12,966	14,522	19,832	20,847	16,008	13,923	10,778	8,020	9,196	7,881	10,450
50%	10,149	12,748	17,750	25,048	30,918	28,734	23,094	19,502	14,303	11,963	12,852	10,616	13,532
75%	14,168	15,370	31,929	44,906	52,169	45,453	33,675	29,330	21,301	18,704	17,307	17,842	20,683
90%	16,268	21,729	53,185	59,584	65,293	56,238	51,200	41,600	28,387	20,185	18,600	20,268	24,116
100%	35,032	57,168	72,341	75,499	76,618	74,296	70,599	55,564	52,502	25,208	24,512	24,919	32,187
Mean	11,345	14,818	25,086	31,087	36,130	33,180	27,153	22,337	17,138	13,033	13,114	12,678	15,469
65													
0%	5,969	6,593	6,594	9,248	7,777	8,368	7,077	7,476	6,702	6,537	6,171	6,522	6,304
10%	6,526	7,757	9,055	11,889	13,646	15,439	13,588	10,865	8,858	7,295	7,338	6,684	8,752
25%	7,950	9,780	11,830	15,608	21,647	22,871	18,498	16,439	10,831	8,242	7,929	8,052	10,870
50%	9,089	12,544	17,571	25,417	32,673	31,307	27,001	23,048	15,822	9,424	9,933	9,178	13,801
75%	12,273	15,679	34,188	46,461	52,278	47,739	37,850	34,001	21,286	13,923	17,512	15,608	20,496
90%	16,439	20,874	53,430	59,215	65,051	57,178	52,309	43,076	30,347	19,915	19,398	16,838	24,751
100%	32,887	56,991	72,331	75,485	76,420	74,295	70,539	55,637	51,278	26,202	25,110	22,206	31,936
Mean	10,605	14,416	24,985	31,478	36,805	34,788	29,976	25,172	17,673	11,728	12,265	11,401	15,719

Table H1a3-64. 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												
C	9,759	10,397	13,952	14,380	15,950	14,331	8,587	7,721	8,568	8,128	9,645	6,880
D	11,037	12,922	18,527	16,246	22,252	21,424	13,351	10,927	11,445	12,531	12,360	9,455
BN	12,116	13,203	17,597	24,573	32,103	26,337	21,098	14,495	14,247	17,938	15,309	11,750
AN	11,163	15,642	23,228	40,601	47,162	42,315	25,227	20,994	15,775	19,587	16,190	22,110
W	14,147	19,611	41,460	50,405	53,124	46,839	39,659	32,302	25,147	18,069	17,819	20,768
All	11,995	14,925	25,128	30,846	35,499	31,454	23,479	18,791	16,195	15,391	14,606	14,442
45												
C	9,419	10,249	13,868	13,959	16,879	15,360	9,761	8,786	8,351	7,634	8,970	6,671
D	10,930	12,974	18,591	16,124	22,907	22,763	15,703	12,796	10,542	10,927	10,935	9,040
BN	11,938	12,936	17,854	24,465	31,795	27,449	23,253	16,697	14,737	15,805	13,887	10,191
AN	11,156	15,325	23,327	40,978	47,025	42,107	26,709	22,729	17,350	18,799	16,204	20,648
W	14,005	19,650	41,500	50,555	53,219	46,744	40,296	32,838	25,887	17,864	18,126	20,207
All	11,838	14,834	25,202	30,821	35,747	32,078	24,978	20,174	16,468	14,387	14,002	13,669
55 w/WSAs												
C	9,164	9,643	13,150	13,673	16,219	14,216	8,738	7,556	7,913	7,220	8,394	7,030
D	10,204	12,453	18,323	16,181	22,621	22,371	15,774	12,134	9,922	10,347	11,312	9,179
BN	11,668	12,585	17,876	24,192	31,757	27,310	23,911	17,795	14,278	15,982	14,045	10,923
AN	10,505	14,205	23,513	40,467	46,865	41,615	28,024	25,528	18,202	17,969	16,273	19,288
W	13,722	19,528	40,667	50,512	53,316	47,370	41,470	35,103	26,937	18,894	18,694	19,683
All	11,419	14,380	24,801	30,660	35,580	31,909	25,470	21,064	16,593	14,437	14,203	13,575
55												
C	8,893	9,584	13,245	14,050	17,149	16,377	11,179	10,080	8,643	7,117	7,739	6,720
D	10,328	12,840	18,573	16,404	23,935	24,722	18,606	15,147	10,973	8,723	9,221	8,443
BN	11,098	12,970	18,167	25,141	32,443	28,910	26,291	19,569	14,814	12,702	12,017	9,575
AN	11,010	15,023	23,742	41,435	46,463	42,661	29,408	25,822	18,398	15,686	15,494	16,787
W	13,691	20,147	41,098	50,568	53,398	47,257	41,584	34,504	27,159	18,498	18,577	19,283
All	11,345	14,818	25,086	31,087	36,130	33,180	27,153	22,337	17,138	13,033	13,114	12,678
65												
C	8,211	9,215	13,083	15,442	17,731	17,514	12,699	11,623	9,436	7,334	7,461	6,699
D	9,495	12,693	18,742	16,758	25,468	27,132	21,463	17,504	11,603	8,293	8,197	8,282
BN	10,454	12,257	17,802	25,863	32,815	31,183	30,148	22,930	15,258	9,381	9,407	9,142
AN	10,148	14,550	23,260	41,855	47,111	44,356	33,202	29,222	18,453	12,111	13,369	13,551
W	12,975	19,769	41,149	50,230	53,696	48,072	44,035	37,820	27,734	17,923	19,180	16,765
All	10,605	14,416	24,985	31,478	36,805	34,788	29,976	25,172	17,673	11,728	12,265	11,401

H1a3.2.33 Sacramento River at Rio Vista (SWRCB Sac at Rio Vista)

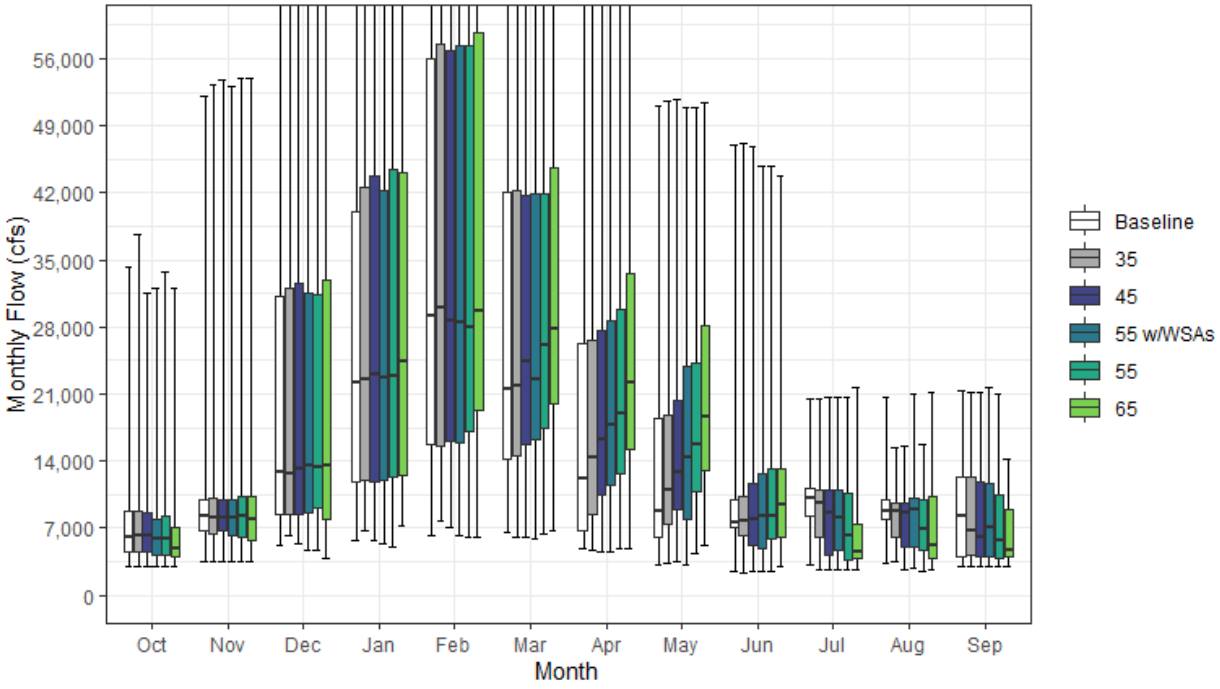

Figure H1a3-33. Sacramento River Streamflow at Rio Vista Monthly Boxplot (cfs)

Table H1a3-65. 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													
0%	3,000	3,509	6,304	6,688	7,781	5,984	4,665	3,274	2,350	2,661	3,522	3,000	3,621
10%	3,165	4,991	7,612	9,365	10,762	10,331	6,155	5,710	4,512	3,221	4,860	3,088	5,763
25%	4,507	6,447	8,415	12,069	15,588	14,635	8,498	7,399	6,240	5,990	5,980	4,190	7,248
50%	6,296	8,131	12,761	22,466	29,994	21,930	14,303	11,000	7,796	9,543	8,721	6,703	9,911
75%	8,692	10,055	32,002	42,570	57,587	42,205	26,577	18,756	10,389	11,001	9,578	12,271	18,631
90%	9,791	16,129	58,883	80,301	100,934	70,855	46,065	34,089	20,618	11,949	10,837	13,788	25,612
100%	37,577	53,269	121,160	174,756	200,707	175,694	106,907	51,507	47,104	20,575	15,417	21,167	39,493
Mean	6,976	10,336	24,268	35,522	44,095	33,953	21,459	15,230	10,441	8,572	8,162	8,289	13,634
45													
0%	3,000	3,532	5,343	5,781	6,995	6,102	4,515	3,495	2,471	2,706	2,700	3,000	3,595
10%	3,140	4,531	7,398	9,075	11,144	11,808	7,798	6,162	4,429	3,039	4,621	3,035	5,874
25%	4,479	6,755	8,480	11,850	16,085	15,771	10,390	8,866	5,267	4,110	5,110	4,093	7,484
50%	6,163	8,170	13,217	23,107	28,615	24,338	16,282	12,831	7,910	8,540	8,528	6,063	10,332
75%	8,566	10,042	32,506	43,714	56,749	41,801	27,584	20,300	11,742	11,024	9,611	11,898	18,639
90%	9,688	16,042	59,085	80,788	99,990	70,905	46,181	34,480	20,433	11,855	10,655	13,250	25,664
100%	31,509	53,701	120,854	173,563	197,066	175,684	107,094	51,680	46,797	20,599	15,489	21,180	39,440
Mean	6,837	10,127	24,354	35,734	44,273	34,388	22,792	16,415	10,648	7,910	7,790	7,776	13,739
55 w/WSAs													
0%	3,000	3,537	4,726	5,451	6,183	5,896	4,526	3,191	2,431	2,735	2,914	3,003	3,361
10%	3,089	4,332	6,863	8,756	11,175	10,795	6,615	5,636	4,422	3,114	4,488	3,439	5,647
25%	4,187	6,223	8,657	12,084	15,864	16,192	11,446	7,933	4,812	4,770	4,990	4,018	7,069
50%	5,909	8,062	13,467	22,700	28,484	22,561	17,732	14,441	8,204	8,076	8,979	7,002	10,356
75%	7,953	9,997	31,471	42,304	57,330	41,892	28,607	23,840	12,689	10,973	10,105	11,704	19,049
90%	9,784	14,082	53,645	79,410	99,293	67,839	46,667	34,302	22,216	11,767	10,794	12,690	25,778
100%	32,020	53,121	119,429	171,374	194,702	175,670	106,466	50,863	44,761	20,689	21,067	21,737	39,831
Mean	6,559	9,829	23,607	35,233	43,761	34,167	23,253	17,191	10,795	7,969	7,971	7,714	13,680
55													
0%	3,000	3,538	4,743	5,077	6,042	6,412	4,891	4,299	2,552	2,699	2,566	3,000	3,533
10%	3,018	4,510	6,687	8,736	11,540	13,024	9,249	7,226	4,352	3,017	3,611	3,009	6,064
25%	4,134	6,140	9,127	12,291	17,150	17,456	12,765	10,814	5,902	3,624	4,639	3,871	7,604
50%	5,817	8,204	13,378	22,843	27,966	26,096	18,944	15,813	8,337	6,149	6,907	5,672	10,633
75%	8,273	10,388	31,442	44,490	57,319	41,958	29,814	24,147	13,231	10,678	10,026	10,478	18,915
90%	9,701	14,958	55,358	79,124	100,082	67,818	48,227	35,421	23,101	11,804	10,812	12,149	25,545
100%	33,754	54,014	120,532	170,978	188,465	174,059	107,098	50,893	44,774	20,695	15,717	21,022	39,394
Mean	6,522	10,151	24,136	35,968	44,544	35,406	24,822	18,320	11,268	7,029	7,242	7,135	13,948
65													
0%	3,000	3,525	3,922	7,296	6,047	6,809	4,892	5,170	3,023	2,597	2,604	3,000	3,989
10%	3,011	4,498	6,062	9,542	11,110	12,467	10,640	8,268	4,608	3,115	3,366	3,001	6,286
25%	4,045	5,765	7,937	12,537	19,246	19,938	15,239	12,992	6,056	3,814	3,865	3,967	8,213
50%	4,838	7,909	13,475	24,350	29,638	27,787	22,200	18,693	9,465	4,603	5,204	4,763	10,921
75%	7,101	10,340	32,908	44,130	58,686	44,680	33,505	28,139	13,243	7,467	10,230	9,005	19,201
90%	9,700	14,539	55,795	85,150	99,029	69,755	51,513	36,987	24,652	11,556	11,424	9,828	26,841
100%	32,087	53,949	120,438	172,001	186,461	173,367	106,464	51,424	43,838	21,633	21,140	14,292	39,045
Mean	5,991	9,936	24,236	36,404	45,273	37,003	27,603	20,785	11,831	6,176	6,762	6,234	14,290

Table H1a3-66. 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												
C	5,217	6,131	10,720	12,570	14,253	12,020	6,318	5,475	4,368	3,654	4,832	3,189
D	6,084	8,411	15,173	13,762	20,788	19,038	10,617	8,235	6,362	6,610	6,668	4,867
BN	6,888	8,344	14,853	22,418	32,903	23,641	17,555	11,291	8,267	10,175	8,556	6,409
AN	6,291	10,884	20,618	43,932	56,311	43,261	21,400	17,141	9,333	11,285	9,238	13,389
W	8,897	15,032	45,588	68,657	79,306	59,397	39,980	27,292	18,490	10,533	10,354	12,668
All	6,976	10,336	24,268	35,522	44,095	33,953	21,459	15,230	10,441	8,572	8,162	8,289
45												
C	5,003	6,081	10,667	12,210	15,095	12,947	7,340	6,406	4,230	3,330	4,381	3,061
D	6,016	8,236	15,158	13,693	21,513	20,194	12,703	9,855	5,780	5,548	5,761	4,604
BN	6,769	8,161	15,093	22,538	32,871	24,901	19,494	13,190	8,647	8,765	7,694	5,375
AN	6,283	10,664	20,836	44,890	56,112	42,283	22,741	18,611	10,415	10,756	9,223	12,412
W	8,682	14,703	45,669	69,139	79,012	59,084	40,543	27,728	19,001	10,406	10,583	12,284
All	6,837	10,127	24,354	35,734	44,273	34,388	22,792	16,415	10,648	7,910	7,790	7,776
55 w/WSAs												
C	4,827	5,610	10,079	11,891	14,372	11,851	6,435	5,335	3,934	3,059	4,056	3,306
D	5,529	7,861	14,807	13,707	21,012	19,856	12,698	9,286	5,347	5,161	5,973	4,698
BN	6,584	7,896	14,966	22,113	32,498	24,784	19,980	14,148	8,336	8,920	7,694	5,867
AN	5,853	9,737	20,707	43,695	55,965	41,767	23,846	21,011	11,060	10,250	9,315	11,497
W	8,504	14,783	43,909	68,391	78,369	59,465	41,799	29,711	19,900	11,133	11,160	11,934
All	6,559	9,829	23,607	35,233	43,761	34,167	23,253	17,191	10,795	7,969	7,971	7,714
55												
C	4,675	5,601	10,243	12,327	15,596	13,861	8,602	7,541	4,440	2,964	3,528	3,078
D	5,617	8,182	15,201	14,011	22,628	22,250	15,286	11,967	6,092	4,116	4,788	4,300
BN	6,210	8,212	15,068	23,225	33,153	26,542	22,275	15,734	8,746	6,741	6,475	5,013
AN	6,187	10,404	21,289	45,741	55,981	43,290	25,145	21,334	11,576	8,688	8,759	9,813
W	8,501	15,150	44,982	68,840	78,695	59,003	41,951	29,159	20,181	10,851	10,900	11,649
All	6,522	10,151	24,136	35,968	44,544	35,406	24,822	18,320	11,268	7,029	7,242	7,135
65												
C	4,247	5,347	10,156	13,702	16,260	15,068	9,919	8,853	4,981	3,111	3,309	3,046
D	5,071	8,210	15,555	14,350	24,291	24,818	17,822	14,032	6,634	3,879	4,116	4,188
BN	5,797	7,679	14,907	23,966	33,888	28,946	26,027	18,617	9,592	4,517	4,908	4,755
AN	5,620	10,108	20,419	46,211	56,575	44,991	28,546	24,260	11,685	6,327	7,304	7,665
W	7,866	15,010	45,546	68,639	78,822	59,544	44,827	32,086	20,774	10,483	11,502	9,797
All	5,991	9,936	24,236	36,404	45,273	37,003	27,603	20,785	11,831	6,176	6,762	6,234

H1a3.2.34 Stony Creek below Black Butte Reservoir (SWRCB Black Butte)

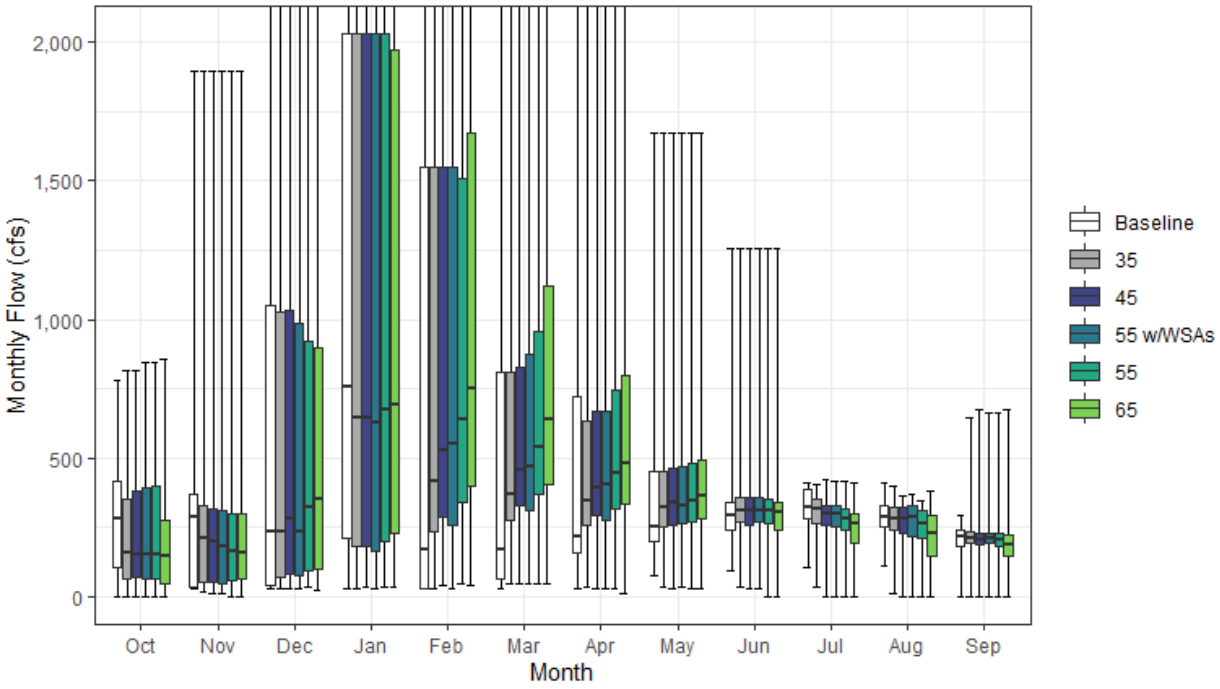

Figure H1a3-34. Stony Creek Streamflow below Black Butte Reservoir Monthly Boxplot (cfs)

Table H1a3-67. 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													
0%	0	13	30	30	30	44	35	33	33	33	11	0	26
10%	41	31	37	85	116	170	203	214	221	232	213	145	152
25%	63	51	70	182	233	272	259	252	266	261	240	190	190
50%	157	210	233	647	417	371	345	319	311	317	280	210	285
75%	350	326	1,028	2,031	1,549	809	632	450	359	351	319	231	591
90%	590	473	2,097	3,825	3,202	1,675	1,279	761	399	370	341	254	735
100%	816	1,895	4,949	8,032	9,018	6,740	3,880	1,672	1,254	405	399	643	1,383
Mean	234	257	752	1,337	1,196	786	605	421	324	300	269	205	402
45													
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	2,097	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	735	1,318	1,231	832	624	428	319	280	254	210	403
55 w/WSAs													
0%	0	8	30	30	30	43	30	33	30	0	0	0	20
10%	34	31	45	89	135	203	209	209	219	188	93	146	153
25%	64	48	73	164	256	308	277	261	271	251	217	190	194
50%	150	182	234	629	551	470	405	327	307	299	285	209	298
75%	393	313	988	2,031	1,549	875	669	468	356	329	325	229	607
90%	765	446	2,097	3,825	3,202	1,621	1,271	729	399	357	338	255	729
100%	847	1,895	4,949	7,937	9,018	6,740	3,880	1,672	1,254	418	369	660	1,398
Mean	247	239	727	1,312	1,231	828	622	427	318	279	255	220	403
55													
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	1,896	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													
0%	0	0	25	32	38	44	12	30	0	0	0	0	17
10%	0	20	55	128	185	259	228	216	201	59	0	0	158
25%	46	62	100	227	397	404	335	281	241	193	144	144	216
50%	144	157	353	693	748	638	479	365	301	265	226	189	335
75%	273	300	900	1,972	1,673	1,122	797	492	342	299	291	220	574
90%	770	456	1,974	3,647	3,164	1,740	1,217	812	395	324	311	288	737
100%	857	1,895	4,949	7,618	9,018	6,740	3,577	1,672	1,254	408	381	675	1,398
Mean	233	229	697	1,283	1,335	964	666	447	306	233	201	192	407

Table H1a3-68. 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												
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												
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	735	1,318	1,231	832	624	428	319	280	254	210
55 w/WSAs												
C	124	81	142	228	260	258	197	214	214	252	190	105
D	260	203	342	374	403	397	311	293	282	306	282	194
BN	250	177	377	679	692	457	449	323	310	310	306	210
AN	128	178	735	1,947	1,794	937	580	485	350	318	297	226
W	350	412	1,541	2,724	2,471	1,638	1,202	683	393	239	222	305
All	247	239	727	1,312	1,231	828	622	427	318	279	255	220
55												
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	323	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												
C	92	71	219	291	392	373	219	215	188	148	104	66
D	210	179	359	396	575	580	401	331	281	275	218	123
BN	224	181	351	709	860	633	572	358	303	284	259	168
AN	119	191	695	1,725	1,889	1,073	617	503	342	268	258	201
W	378	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	306	233	201	192

H1a3.2.35 Stony Creek above Confluence with Sacramento River (SWRCB Stony Creek)

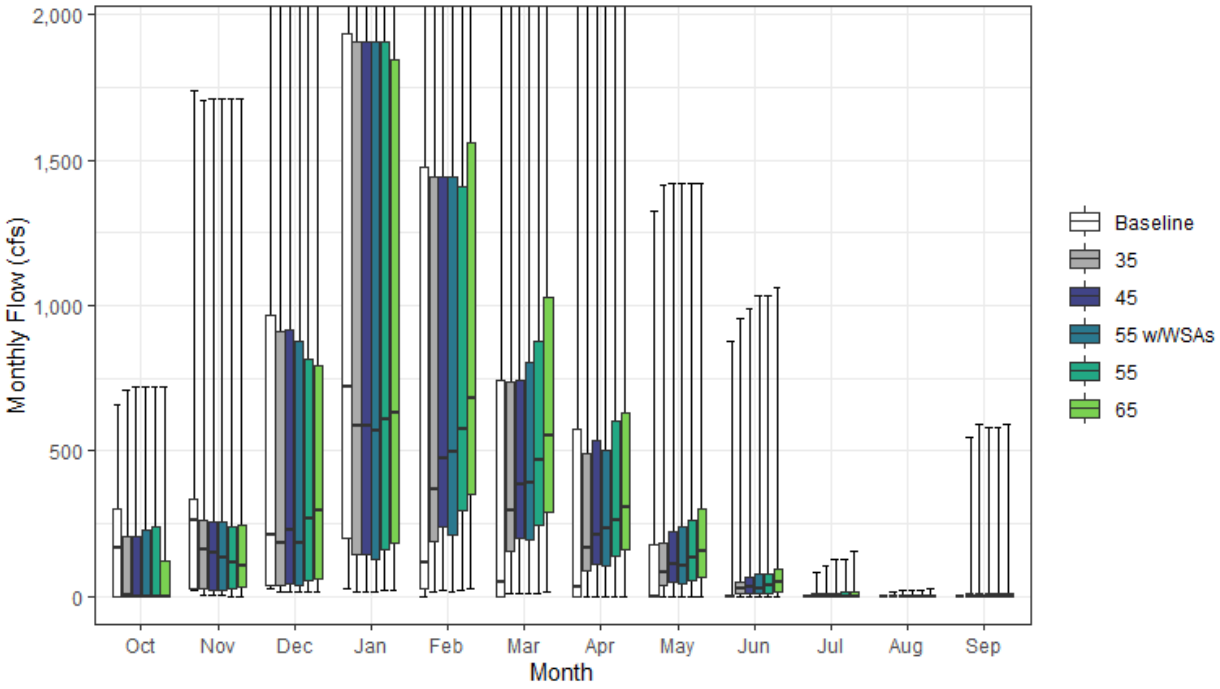

Figure H1a3-35. Stony Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-69. 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													
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													
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%	205	254	916	1,904	1,444	740	536	220	64	10	0	7	458
90%	492	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													
0%	0	5	15	15	15	7	1	1	0	0	0	0	6
10%	0	15	20	55	90	93	44	19	1	0	0	0	48
25%	0	23	37	126	209	194	105	43	8	0	0	1	83
50%	0	134	184	569	494	392	231	103	28	0	0	3	181
75%	226	254	876	1,904	1,444	803	500	239	75	12	0	8	468
90%	587	371	1,893	3,612	3,018	1,508	1,062	513	153	23	4	23	602
100%	721	1,708	4,508	7,526	8,556	6,387	3,340	1,422	1,036	129	23	578	1,274
Mean	138	192	639	1,219	1,138	728	437	215	70	9	1	42	289
55													
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	76	9	2	46	296
65													
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	209	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 H1a3-70. 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												
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												
C	48	57	125	203	235	183	65	35	11	0	0	2
D	125	152	295	338	377	321	156	82	16	2	1	4
BN	123	144	320	602	626	372	272	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												
C	55	57	108	191	203	148	52	27	9	0	0	2
D	137	159	284	326	350	298	136	73	14	2	1	3
BN	131	134	319	616	624	378	267	107	31	3	0	2
AN	31	137	643	1,823	1,678	857	424	258	67	10	1	5
W	231	347	1,383	2,563	2,322	1,524	977	469	168	22	4	130
All	138	192	639	1,219	1,138	728	437	215	70	9	1	42
55												
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	76	9	2	46
65												
C	50	52	180	250	333	264	93	50	16	0	0	2
D	114	136	299	347	516	464	225	118	23	2	1	4
BN	131	136	293	645	781	535	388	151	48	4	0	3
AN	19	146	607	1,612	1,768	985	466	303	91	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

H1a3.2.36 Sutter Bypass near Karnak

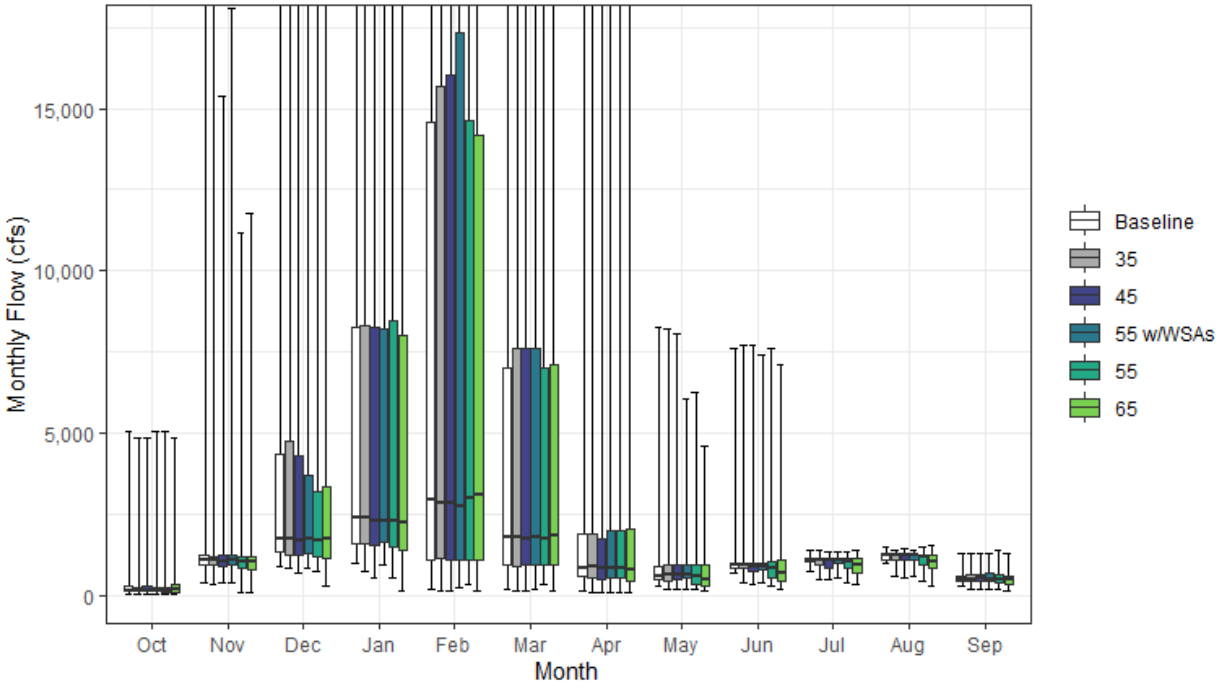

Figure H1a3-36. Sutter Bypass Streamflow near Karnak Monthly Boxplot (cfs)

Table H1a3-71. 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													
0%	44	342	824	759	126	122	87	187	408	501	588	190	343
10%	98	820	1,070	1,137	585	608	288	293	537	804	865	305	617
25%	118	951	1,254	1,583	1,119	898	560	459	816	955	1,072	422	770
50%	148	1,076	1,733	2,369	2,851	1,766	891	655	917	1,084	1,226	478	1,415
75%	252	1,205	4,765	8,307	15,687	7,593	1,870	941	996	1,133	1,275	652	3,566
90%	517	1,500	16,929	27,493	38,879	21,486	7,857	1,309	1,114	1,167	1,299	708	6,364
100%	4,861	19,741	41,171	71,709	103,787	74,774	37,336	8,221	7,686	1,370	1,387	1,282	10,082
Mean	272	1,367	5,320	9,059	12,361	7,202	2,942	866	1,002	1,028	1,147	515	2,569
45													
0%	55	406	690	551	150	122	85	187	360	507	553	196	362
10%	87	758	989	1,081	583	572	281	286	510	750	751	355	625
25%	117	899	1,254	1,522	1,112	930	464	496	756	844	1,063	431	758
50%	143	1,053	1,706	2,305	2,823	1,733	841	624	901	1,068	1,216	515	1,267
75%	260	1,227	4,311	8,273	16,015	7,610	1,735	938	998	1,126	1,275	660	3,522
90%	529	1,545	15,884	27,488	38,877	21,490	7,867	1,176	1,069	1,173	1,302	726	6,208
100%	4,856	15,366	41,170	71,788	103,731	74,774	37,335	8,038	7,699	1,339	1,417	1,293	10,077
Mean	271	1,299	5,167	8,999	12,192	7,127	2,913	843	969	1,005	1,134	540	2,532
55 w/WSAs													
0%	47	406	848	924	228	163	95	189	392	524	589	201	384
10%	97	818	1,120	1,187	568	572	352	295	534	782	894	380	626
25%	114	938	1,277	1,635	1,111	930	527	515	809	1,004	1,068	450	780
50%	144	1,075	1,726	2,315	2,743	1,783	841	637	905	1,080	1,214	504	1,356
75%	253	1,245	3,700	8,235	17,336	7,597	1,986	952	1,004	1,120	1,255	663	3,556
90%	547	1,541	15,645	26,980	38,828	21,479	7,787	1,177	1,169	1,167	1,289	713	6,173
100%	5,037	18,095	41,170	71,746	103,702	74,774	37,335	6,074	7,403	1,328	1,396	1,280	10,075
Mean	276	1,345	4,928	8,977	12,349	7,254	2,950	865	1,006	1,028	1,143	554	2,545
55													
0%	47	94	716	545	317	317	83	166	293	389	429	195	341
10%	82	639	919	1,086	574	572	280	241	418	601	742	261	602
25%	103	862	1,194	1,489	1,083	954	532	326	548	818	952	409	739
50%	137	1,036	1,666	2,304	3,015	1,758	819	600	862	1,052	1,181	494	1,246
75%	242	1,195	3,173	8,472	14,647	7,011	1,978	934	1,025	1,122	1,262	639	3,495
90%	537	1,430	15,630	28,224	38,828	20,323	7,857	1,345	1,218	1,178	1,300	687	6,130
100%	5,027	11,186	41,170	71,698	103,676	74,774	37,286	6,270	7,595	1,330	1,477	1,371	10,110
Mean	265	1,237	4,647	8,850	12,037	7,099	2,956	817	937	967	1,085	513	2,469
65													
0%	46	68	274	118	125	120	79	129	163	314	270	139	279
10%	81	313	734	929	479	542	210	191	319	463	543	194	508
25%	102	797	1,161	1,380	1,078	959	413	271	411	675	825	338	709
50%	164	1,023	1,716	2,262	3,112	1,828	776	479	680	946	1,021	464	1,266
75%	310	1,201	3,326	8,000	14,187	7,131	2,019	918	1,107	1,127	1,247	590	3,419
90%	539	1,480	12,187	26,559	37,484	18,762	8,271	1,259	1,215	1,266	1,298	694	6,133
100%	4,874	11,766	41,166	71,710	99,846	74,775	37,088	4,603	7,123	1,382	1,523	1,276	10,162
Mean	279	1,159	4,432	8,601	11,954	7,078	3,080	672	843	893	991	466	2,410

Table H1a3-72. 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												
C	151	951	1,799	1,646	1,550	1,094	306	319	548	763	817	281
D	186	1,057	2,599	1,911	2,692	2,310	705	576	852	1,037	1,257	574
BN	218	1,049	3,181	2,881	6,929	2,107	1,320	619	902	1,072	1,248	503
AN	248	1,004	3,659	10,732	16,931	8,770	1,622	1,245	1,007	1,128	1,192	609
W	445	2,164	11,214	21,499	26,828	16,647	7,545	1,374	1,415	1,096	1,162	568
All	272	1,367	5,320	9,059	12,361	7,202	2,942	866	1,002	1,028	1,147	515
45												
C	168	898	1,811	1,611	1,494	1,085	280	319	525	715	744	317
D	199	1,032	2,406	1,860	2,664	2,128	675	525	792	970	1,210	570
BN	206	1,014	3,095	2,676	6,485	2,217	1,277	662	855	1,054	1,236	563
AN	226	1,074	3,828	10,727	16,697	8,391	1,600	1,236	971	1,121	1,254	616
W	439	1,979	10,828	21,487	26,698	16,620	7,519	1,314	1,408	1,108	1,173	594
All	271	1,299	5,167	8,999	12,192	7,127	2,913	843	969	1,005	1,134	540
55 w/WSAs												
C	150	997	1,854	1,682	1,560	1,128	333	346	567	740	844	365
D	185	1,087	2,316	1,931	2,698	2,297	670	572	814	1,047	1,217	588
BN	227	1,040	3,121	2,741	6,687	2,420	1,223	680	906	1,099	1,243	590
AN	245	1,084	3,621	10,799	17,631	8,738	1,590	1,228	984	1,129	1,212	642
W	454	2,017	10,151	21,256	26,655	16,625	7,654	1,328	1,453	1,082	1,158	571
All	276	1,345	4,928	8,977	12,349	7,254	2,950	865	1,006	1,028	1,143	554
55												
C	142	791	1,717	1,535	1,438	1,120	250	244	426	611	692	287
D	176	1,017	2,144	1,866	2,750	2,078	691	406	652	855	1,060	565
BN	225	945	2,613	2,699	6,042	2,291	1,409	608	811	1,063	1,200	553
AN	214	978	3,409	10,632	16,632	8,470	1,647	1,308	990	1,140	1,233	555
W	442	1,926	9,828	21,055	26,459	16,465	7,563	1,359	1,476	1,109	1,180	552
All	265	1,237	4,647	8,850	12,037	7,099	2,956	817	937	967	1,085	513
65												
C	155	626	1,611	1,323	1,388	1,039	204	218	356	529	574	230
D	189	983	2,197	1,723	3,219	2,326	561	269	428	731	847	483
BN	206	864	2,515	2,893	6,276	2,641	1,614	460	584	884	1,032	436
AN	255	919	2,698	9,885	16,159	7,805	1,910	929	923	1,086	1,240	568
W	467	1,856	9,484	20,627	25,909	16,303	7,857	1,243	1,539	1,136	1,193	557
All	279	1,159	4,432	8,601	11,954	7,078	3,080	672	843	893	991	466

H1a3.2.37 Thomes Creek above Confluence with Sacramento River (SWRCB Thomes Creek)

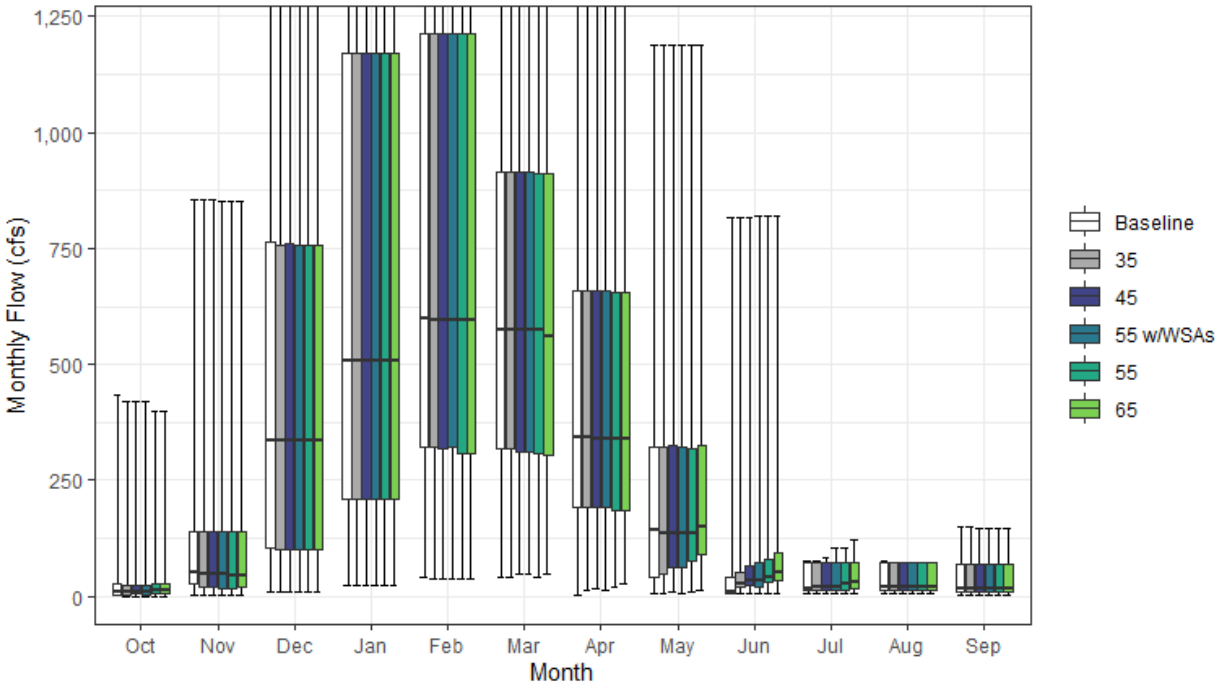

Figure H1a3-37. Thomes Creek Streamflow above Confluence with Sacramento River Monthly Boxplot (cfs)

Table H1a3-73. 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													
0%	1	3	10	22	39	43	14	7	6	6	5	4	22
10%	3	11	37	114	152	193	81	35	12	8	7	5	72
25%	4	18	101	211	320	318	191	49	19	14	14	11	129
50%	10	48	335	509	597	576	342	136	27	19	18	17	195
75%	22	140	758	1,170	1,213	914	659	322	52	71	71	69	332
90%	62	285	1,241	1,784	2,096	1,471	920	609	137	73	73	70	450
100%	419	854	2,757	4,180	5,326	2,975	2,054	1,190	816	76	74	151	700
Mean	28	117	518	780	930	702	461	244	61	37	37	37	237
45													
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	310	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	327	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	700	461	248	67	38	37	37	237
55 w/WSAs													
0%	1	3	10	22	39	48	14	7	6	6	6	4	22
10%	3	11	35	114	151	193	81	37	13	8	7	5	72
25%	4	16	100	211	320	310	191	63	21	14	14	11	129
50%	10	48	335	509	597	575	341	136	35	19	18	17	198
75%	25	139	759	1,170	1,213	914	660	320	71	72	71	69	332
90%	58	282	1,240	1,784	2,096	1,471	918	609	137	73	73	69	453
100%	419	853	2,756	4,180	5,326	2,975	2,054	1,187	820	103	74	147	700
Mean	28	116	517	780	929	700	461	246	68	38	37	37	237
55													
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	654	318	79	72	71	69	333
90%	58	282	1,239	1,784	2,096	1,471	920	611	137	73	73	69	453
100%	400	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													
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	654	324	93	72	71	69	335
90%	65	280	1,239	1,784	2,096	1,471	920	609	156	76	72	70	454
100%	400	850	2,758	4,176	5,326	2,975	2,055	1,190	820	122	74	145	701
Mean	30	115	517	779	928	695	462	258	83	42	38	37	238

Table H1a3-74. 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												
C	15	19	250	293	401	298	119	54	17	8	7	6
D	13	104	334	285	580	483	252	108	24	15	14	19
BN	21	64	267	630	632	558	461	149	37	19	19	20
AN	32	129	555	1,115	1,246	896	500	338	72	61	60	59
W	48	208	939	1,363	1,530	1,092	781	469	123	72	72	69
All	28	117	518	780	930	702	461	244	61	37	37	37
45												
C	17	20	251	293	401	295	120	61	22	8	7	6
D	14	104	334	285	580	478	251	115	30	16	14	19
BN	22	65	267	630	632	556	461	151	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	1,091	782	470	129	73	72	69
All	28	117	518	780	929	700	461	248	67	38	37	37
55 w/WSAs												
C	15	20	251	293	401	296	119	55	17	8	7	6
D	14	101	334	285	579	479	251	111	26	16	14	19
BN	22	64	267	630	632	556	461	151	43	19	19	20
AN	33	127	554	1,115	1,246	896	498	337	83	61	60	59
W	47	207	938	1,363	1,529	1,091	781	471	136	75	72	69
All	28	116	517	780	929	700	461	246	68	38	37	37
55												
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	629	632	554	461	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	137	75	72	69
All	29	116	517	779	928	697	462	252	74	40	37	37
65												
C	17	22	250	293	397	292	127	74	31	10	8	6
D	17	99	333	284	579	468	255	130	43	20	15	20
BN	23	62	267	629	631	546	457	167	59	23	19	20
AN	34	126	553	1,114	1,246	895	499	344	95	64	60	59
W	49	205	938	1,362	1,529	1,089	781	474	149	78	72	69
All	30	115	517	779	928	695	462	258	83	42	38	37

H1a3.2.38 Trinity River below Lewiston Reservoir (SWRCB Trinity)

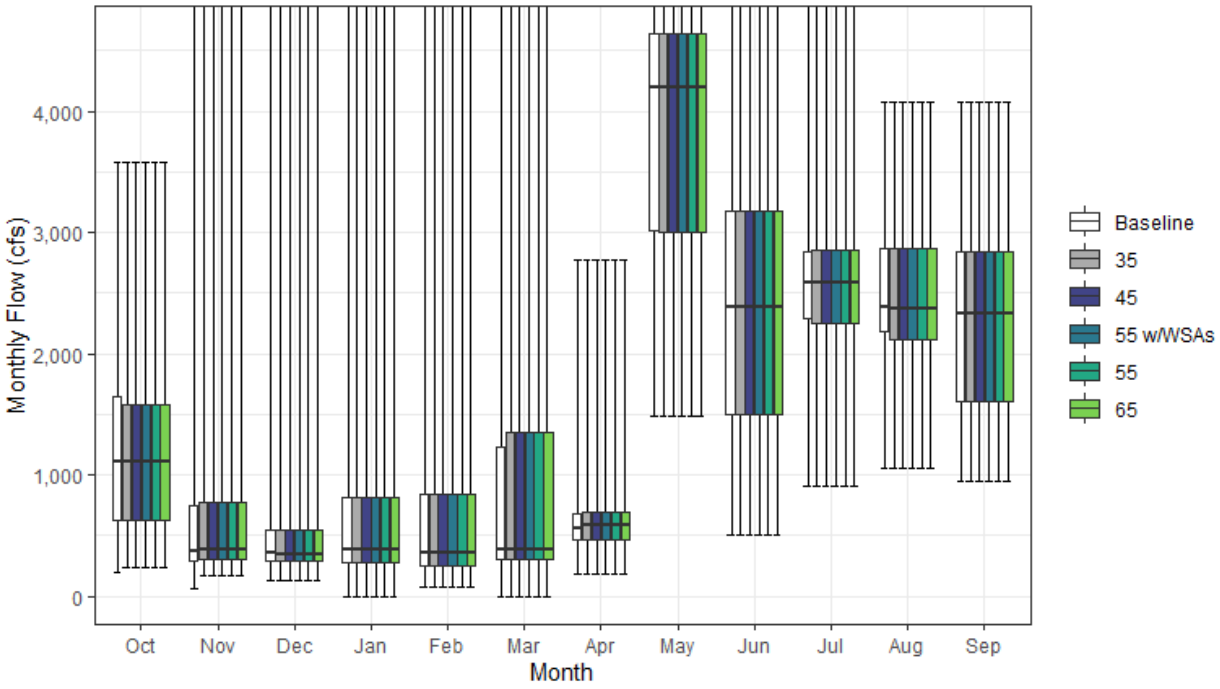

Figure H1a3-38. Trinity River Streamflow below Lewiston Reservoir Monthly Boxplot (cfs)

Table H1a3-75. 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													
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													
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 w/WSAs													
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													
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													
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 H1a3-76. 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												
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												
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												
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												
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												
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	778	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

H1a3.2.39 Yolo Bypass below Putah Creek Inflow

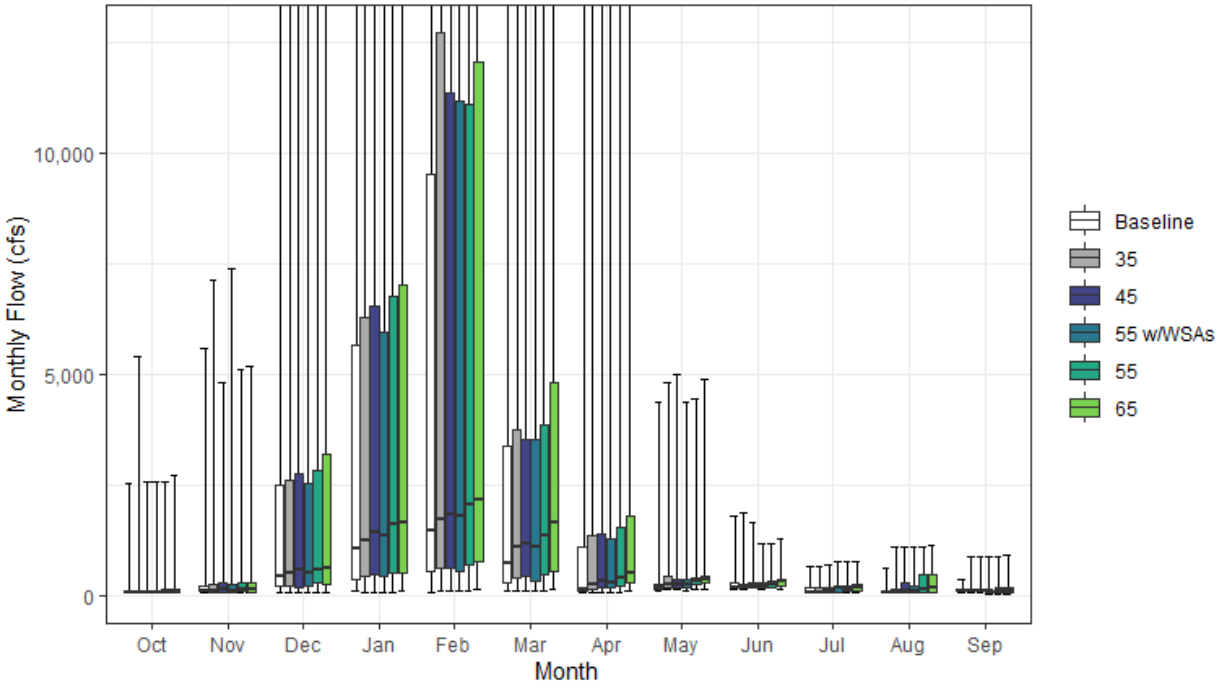

Figure H1a3-39. Yolo Bypass Streamflow below Putah Creek Inflow Monthly Boxplot (cfs)

Table H1a3-77. 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													
0%	48	66	70	71	90	112	65	137	123	59	59	58	87
10%	52	74	94	206	152	171	107	146	176	66	70	75	178
25%	55	79	227	434	610	384	146	158	180	67	76	84	296
50%	70	92	507	1,249	1,720	1,098	253	256	188	69	79	92	723
75%	111	228	2,612	6,293	12,713	3,727	1,339	414	229	170	151	114	2,883
90%	161	539	11,769	27,546	45,031	23,427	3,872	1,048	307	243	545	194	7,760
100%	5,395	7,123	57,945	106,776	131,882	109,913	46,684	4,819	1,869	665	1,084	872	12,444
Mean	154	328	4,121	9,232	13,376	7,406	2,338	452	251	140	180	120	2,263
45													
0%	49	63	68	72	98	113	74	136	165	59	60	58	89
10%	52	71	90	243	168	193	126	155	177	66	70	74	190
25%	55	80	184	463	619	428	170	176	182	68	76	81	315
50%	75	119	572	1,427	1,813	1,158	333	231	195	96	94	89	705
75%	115	266	2,731	6,548	11,348	3,515	1,404	348	287	185	279	131	3,040
90%	163	558	12,865	29,283	44,716	21,997	3,936	1,036	340	236	571	216	7,714
100%	2,579	4,818	57,722	105,587	128,335	109,903	46,897	4,984	1,642	694	1,083	873	12,384
Mean	127	293	4,175	9,472	13,344	7,307	2,385	451	270	146	210	123	2,275
55 w/WSAs													
0%	47	63	69	68	81	113	65	109	127	56	56	34	111
10%	51	70	91	189	168	162	109	147	174	66	66	68	171
25%	54	78	211	431	547	335	160	159	181	79	75	78	279
50%	70	91	508	1,344	1,791	1,080	283	258	217	159	90	88	644
75%	108	240	2,513	5,950	11,180	3,508	1,273	367	299	212	225	100	2,873
90%	161	387	10,292	27,839	44,151	21,510	3,958	1,157	349	242	556	204	7,657
100%	2,566	7,369	56,480	104,761	125,995	109,888	46,291	4,382	1,163	757	1,076	876	12,435
Mean	123	296	3,754	9,095	12,964	7,222	2,415	452	276	169	196	116	2,202
55													
0%	47	63	70	77	107	113	64	143	158	56	57	34	115
10%	52	72	101	251	195	213	164	191	178	65	67	71	221
25%	56	81	279	498	704	482	227	232	188	82	75	79	370
50%	90	140	587	1,605	2,054	1,338	408	318	247	148	134	90	757
75%	129	279	2,831	6,767	11,099	3,843	1,540	401	303	203	452	171	3,171
90%	157	625	11,673	28,591	44,821	21,536	4,789	1,092	340	276	567	232	7,663
100%	2,570	5,103	57,440	105,546	119,951	108,278	46,944	4,425	1,157	756	1,076	876	12,356
Mean	132	290	4,014	9,478	13,286	7,386	2,551	499	277	170	254	137	2,286
65													
0%	46	62	71	98	120	125	95	126	139	53	48	28	113
10%	52	69	97	244	221	235	175	192	175	66	66	60	231
25%	59	77	260	501	750	540	279	268	218	92	78	74	405
50%	108	150	621	1,657	2,163	1,633	489	350	319	188	166	98	957
75%	143	298	3,191	7,006	12,041	4,790	1,788	421	364	251	476	165	3,084
90%	205	584	10,350	31,867	41,383	22,273	7,551	1,140	411	294	591	224	7,778
100%	2,710	5,190	57,353	106,566	116,946	107,593	46,363	4,893	1,272	761	1,127	915	12,459
Mean	147	333	4,160	9,580	13,436	7,602	2,914	536	319	190	283	137	2,356

Table H1a3-78. 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												
C	87	86	729	998	780	436	131	193	206	149	229	179
D	80	202	1,126	657	1,831	1,287	270	230	233	143	198	119
BN	118	110	1,637	1,743	5,211	1,546	518	236	219	101	107	96
AN	122	235	2,304	8,606	15,233	7,357	818	491	204	90	167	92
W	279	725	10,428	24,905	32,988	19,342	6,793	874	327	178	193	115
All	154	328	4,121	9,232	13,376	7,406	2,338	452	251	140	180	120
45												
C	98	147	735	1,012	833	475	147	208	217	145	228	189
D	85	157	1,063	700	1,997	1,295	330	247	274	153	254	124
BN	117	126	1,675	1,963	5,448	1,854	606	243	249	109	181	107
AN	117	253	2,629	9,245	15,152	6,557	888	477	190	87	140	95
W	185	592	10,494	25,263	32,615	19,113	6,811	851	340	190	215	110
All	127	293	4,175	9,472	13,344	7,307	2,385	451	270	146	210	123
55 w/WSAs												
C	83	112	699	921	659	356	117	190	222	162	272	183
D	81	157	931	653	1,730	1,285	255	230	260	145	190	110
BN	113	116	1,527	1,759	5,098	1,848	513	242	252	148	79	96
AN	116	212	2,343	8,468	15,128	6,453	854	460	225	133	178	94
W	185	643	9,429	24,542	31,881	18,949	7,055	884	351	219	240	107
All	123	296	3,754	9,095	12,964	7,222	2,415	452	276	169	196	116
55												
C	109	150	775	1,050	1,096	519	191	236	223	127	199	166
D	88	198	1,121	775	2,227	1,678	426	345	281	193	427	192
BN	123	149	1,408	2,072	5,177	2,253	786	320	287	165	217	130
AN	110	262	2,573	9,706	15,503	7,098	976	537	234	100	141	93
W	193	532	10,089	24,955	32,146	18,601	7,115	852	315	205	224	104
All	132	290	4,014	9,478	13,286	7,386	2,551	499	277	170	254	137
65												
C	132	165	793	1,227	1,256	755	210	220	204	116	155	133
D	98	181	1,319	808	2,576	2,172	513	384	375	242	424	186
BN	137	139	1,526	2,198	5,599	2,699	1,230	328	341	173	397	149
AN	119	306	2,092	9,824	15,544	7,344	1,129	553	304	138	92	107
W	209	668	10,535	25,047	32,018	18,443	7,898	940	332	221	250	108
All	147	333	4,160	9,580	13,436	7,602	2,914	536	319	190	283	137

H1a3.2.40 Yuba River, North Fork above New Bullards Bar Reservoir (SWRCB New Bullards Bar Inflow)

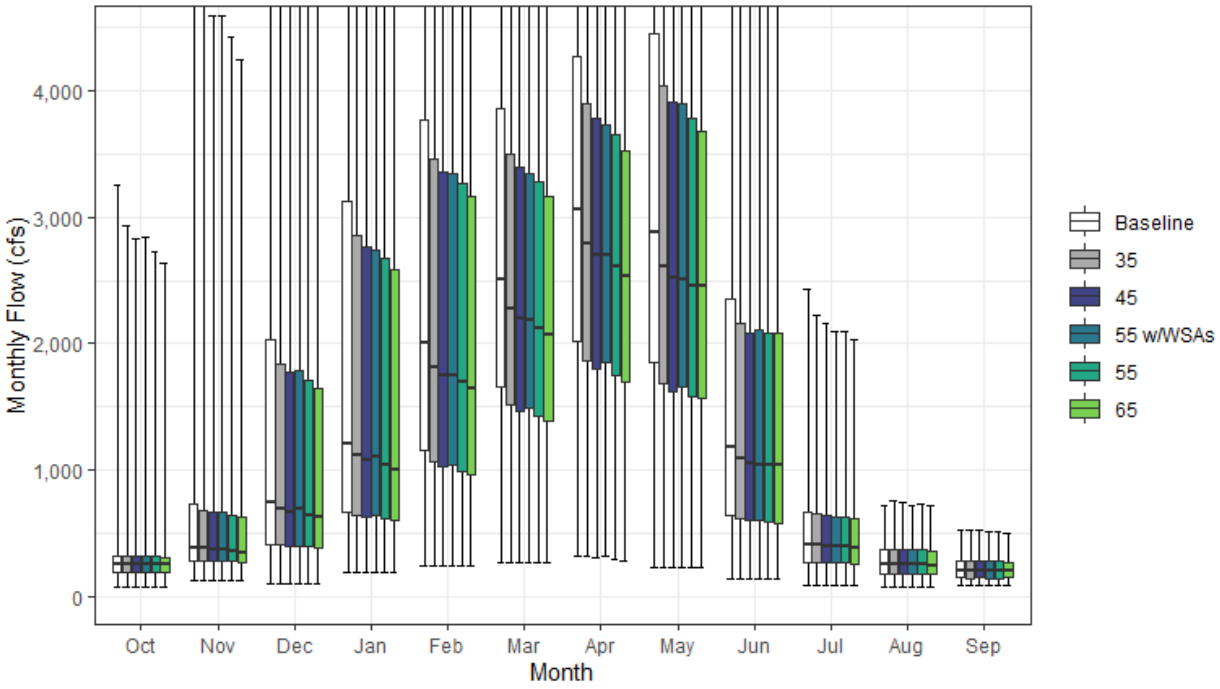

Figure H1a3-40. Yuba River, North Fork Streamflow above New Bullards Bar Reservoir Monthly Boxplot (cfs)

Table H1a3-79. 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													
0%	73	128	102	194	241	271	317	233	142	83	67	85	141
10%	159	213	279	360	632	967	1,231	670	257	157	130	119	400
25%	192	281	406	646	1,060	1,516	1,861	1,684	620	263	180	144	619
50%	260	376	693	1,123	1,811	2,273	2,791	2,608	1,086	404	250	204	995
75%	315	683	1,837	2,856	3,459	3,507	3,905	4,042	2,156	647	371	275	1,582
90%	445	1,255	4,340	5,342	5,082	5,332	5,017	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	2,077	2,532	2,695	2,997	2,926	1,542	521	278	218	1,101
45													
0%	73	128	102	194	241	271	309	233	142	83	67	85	139
10%	159	213	280	352	611	934	1,187	645	257	157	130	119	390
25%	192	281	402	629	1,024	1,470	1,804	1,623	603	262	180	144	602
50%	260	366	667	1,081	1,754	2,193	2,701	2,518	1,056	400	250	204	965
75%	314	662	1,772	2,766	3,361	3,391	3,782	3,913	2,081	636	369	275	1,546
90%	436	1,214	4,227	5,217	4,939	5,190	4,876	5,441	3,170	963	461	325	1,812
100%	2,835	4,598	9,325	11,384	13,205	7,618	7,314	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													
0%	73	128	102	194	241	271	317	233	142	83	67	85	141
10%	159	213	280	355	611	942	1,231	670	257	157	130	119	394
25%	192	277	401	639	1,043	1,493	1,845	1,661	603	262	180	144	608
50%	260	372	693	1,100	1,747	2,190	2,699	2,507	1,046	392	250	204	968
75%	313	664	1,783	2,741	3,352	3,347	3,735	3,896	2,104	628	368	275	1,528
90%	429	1,173	4,314	5,092	4,958	5,095	4,782	5,298	3,089	946	454	325	1,823
100%	2,843	4,598	10,043	11,384	13,205	8,210	7,648	6,910	5,426	2,095	712	509	2,777
Mean	297	645	1,565	2,043	2,469	2,639	2,899	2,807	1,479	506	275	217	1,073
55													
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	7,542	7,560	6,901	5,426	2,095	731	509	2,814
Mean	294	629	1,510	2,004	2,409	2,563	2,820	2,746	1,453	501	275	217	1,048
65													
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	146	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	1,951	2,342	2,498	2,735	2,689	1,440	493	272	215	1,023

Table H1a3-80. 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												
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	4,077	4,314	3,749	4,195	4,608	2,903	946	425	310
All	301	664	1,552	2,077	2,532	2,695	2,997	2,926	1,542	521	278	218
45												
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												
C	236	283	489	485	819	1,125	1,179	957	445	172	128	114
D	236	486	854	719	1,475	1,981	2,238	1,846	737	281	187	164
BN	255	464	805	1,300	1,944	2,394	3,271	2,752	1,272	417	258	202
AN	292	814	1,303	2,838	3,024	3,807	3,041	3,279	1,386	505	311	248
W	404	1,003	3,247	3,997	4,189	3,615	4,010	4,344	2,741	905	414	307
All	297	645	1,565	2,043	2,469	2,639	2,899	2,807	1,479	506	275	217
55												
C	234	279	469	464	771	1,063	1,099	890	420	169	128	114
D	235	474	824	693	1,413	1,894	2,122	1,753	706	276	187	164
BN	254	457	782	1,253	1,872	2,315	3,156	2,660	1,237	409	257	202
AN	288	792	1,213	2,761	2,938	3,633	2,966	3,224	1,364	499	309	248
W	398	973	3,148	3,961	4,141	3,581	3,978	4,328	2,724	902	415	307
All	294	629	1,510	2,004	2,409	2,563	2,820	2,746	1,453	501	275	217
65												
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	164
BN	251	446	759	1,213	1,813	2,241	3,058	2,623	1,230	401	256	201
AN	284	767	1,218	2,674	2,863	3,539	2,868	3,178	1,357	490	305	246
W	389	941	3,073	3,870	4,036	3,517	3,867	4,203	2,698	887	408	302
All	290	610	1,476	1,951	2,342	2,498	2,735	2,689	1,440	493	272	215

H1a3.2.41 Yuba River, Middle Fork above Confluence with North Fork Yuba (SWRCB M Yuba Inflow)

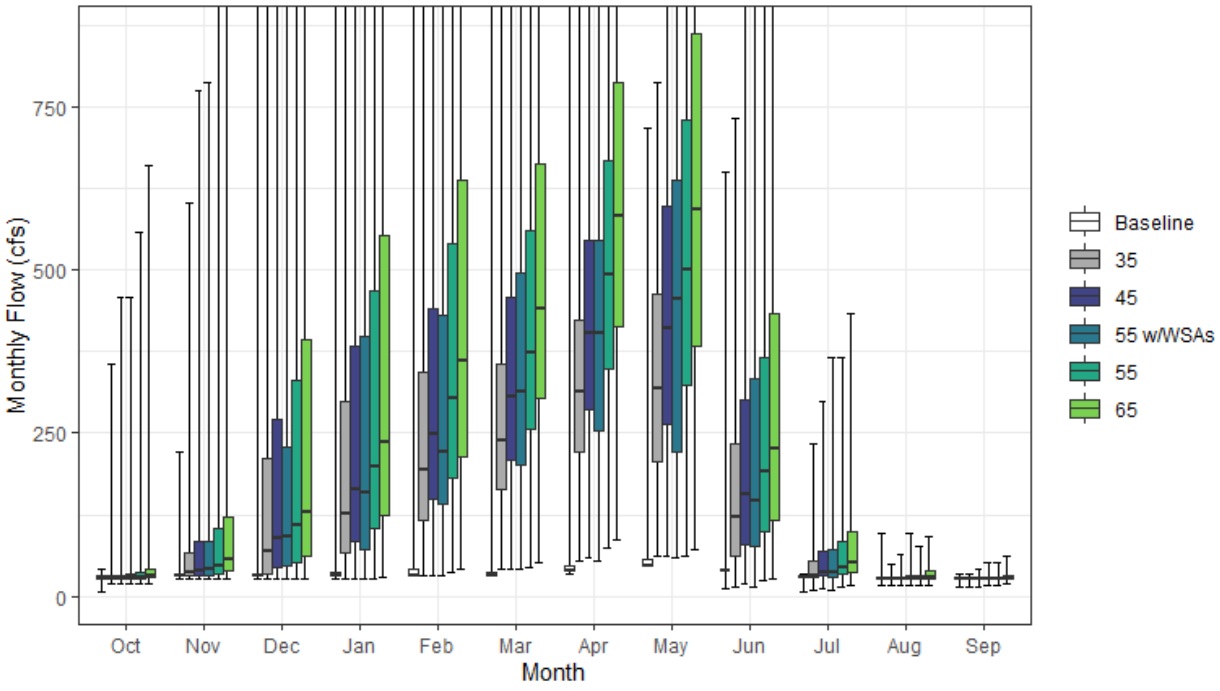

Figure H1a3-41. Yuba River, Middle Fork Streamflow above Confluence with North Fork Yuba Monthly Boxplot (cfs)

Table H1a3-81. 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													
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													
0%	18	27	28	28	31	42	60	63	19	11	16	13	29
10%	27	29	31	40	89	146	192	124	47	28	25	23	62
25%	28	31	43	85	148	209	286	264	80	30	27	26	86
50%	29	40	90	163	249	306	403	410	157	36	27	27	140
75%	31	84	272	383	442	458	545	597	300	69	29	28	222
90%	41	162	531	631	721	670	676	800	465	98	35	30	315
100%	457	774	2,933	3,087	3,806	2,419	2,132	1,012	940	299	63	42	553
Mean	37	89	262	358	396	414	435	442	221	57	29	27	166
55 w/WSAs													
0%	18	27	28	28	31	42	53	60	15	9	16	16	27
10%	27	29	31	39	87	133	165	99	43	28	25	23	56
25%	28	32	46	72	142	202	255	220	76	29	27	26	86
50%	29	42	90	158	221	314	403	455	146	37	28	27	125
75%	34	83	230	397	430	495	546	636	333	72	32	28	240
90%	42	188	584	713	754	686	741	838	537	114	39	32	331
100%	457	788	2,216	3,087	3,806	2,173	2,132	1,236	1,149	366	96	51	585
Mean	38	91	237	350	399	408	447	469	240	63	31	28	168
55													
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	52	104	181	256	349	323	98	33	27	26	104
50%	29	47	110	199	305	374	492	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													
0%	18	27	28	29	42	51	87	72	28	16	16	18	34
10%	27	31	35	57	129	211	277	179	58	31	25	23	85
25%	28	39	62	123	214	302	412	382	115	38	27	26	122
50%	33	56	129	235	360	442	582	592	227	52	30	28	201
75%	41	122	392	553	638	661	788	861	433	99	39	33	312
90%	59	235	767	911	1,041	968	977	1,156	671	142	51	39	387
100%	660	1,119	2,933	3,087	3,806	2,419	2,132	1,461	1,358	432	91	60	609
Mean	46	125	326	437	522	548	618	638	317	80	34	30	224

Table H1a3-82. 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												
C	31	34	55	52	98	130	152	135	69	28	24	23
D	30	52	83	76	163	219	265	237	86	30	27	27
BN	28	47	84	141	209	259	367	331	138	33	27	27
AN	30	96	227	411	344	601	346	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												
C	33	36	66	65	125	166	195	173	82	29	24	23
D	30	63	106	97	210	281	341	305	108	32	27	27
BN	29	56	105	180	268	334	472	426	177	40	27	27
AN	33	121	249	478	418	625	444	519	210	49	27	28
W	51	145	584	771	749	609	604	665	410	105	34	29
All	37	89	262	358	396	414	435	442	221	57	29	27
55 w/WSAs												
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												
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												
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	570	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

H1a3.2.42 Yuba River, South Fork above Confluence with Yuba River (SWRCB S Yuba Inflow)

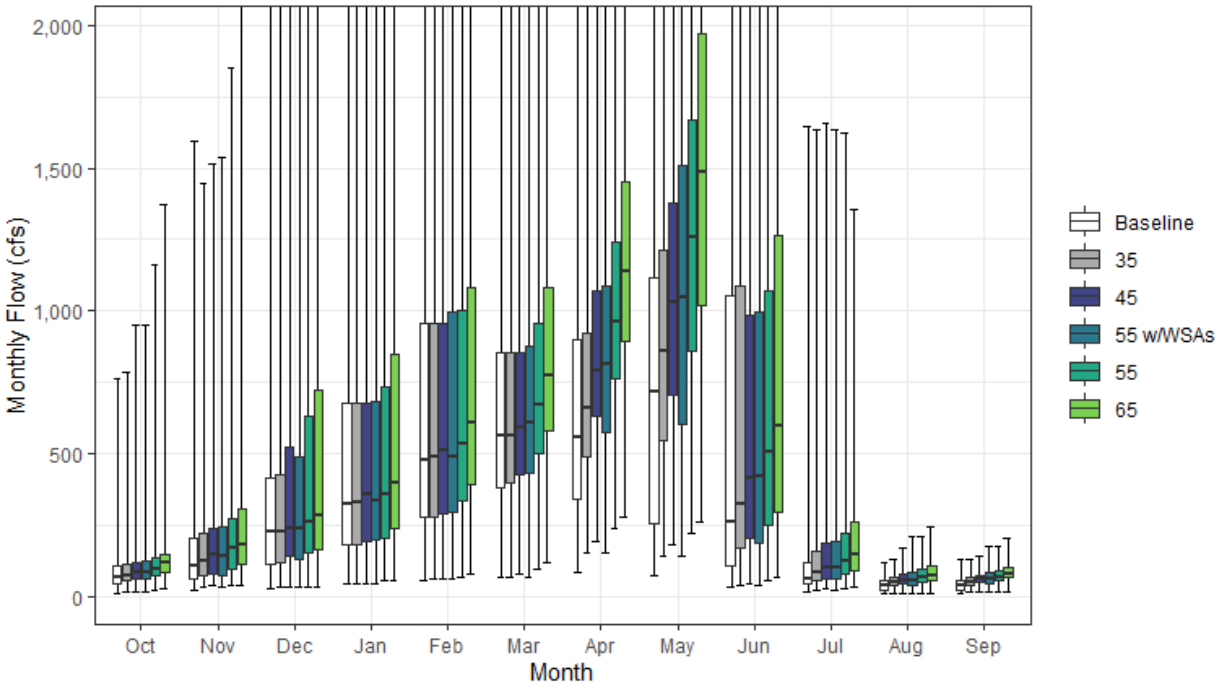

Figure H1a3-42. Yuba River, South Fork Streamflow above Confluence with Yuba River Monthly Boxplot (cfs)

Table H1a3-83. 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													
0%	16	34	34	42	61	68	150	139	41	22	9	14	52
10%	35	55	72	98	157	252	408	284	87	42	26	30	120
25%	53	70	117	183	277	396	491	547	169	54	37	38	175
50%	73	125	225	330	489	563	662	859	323	85	48	51	272
75%	111	222	428	677	958	853	923	1,211	1,087	160	68	64	455
90%	159	360	1,056	1,383	1,445	1,581	1,215	1,850	1,964	228	83	79	600
100%	785	1,448	2,693	3,914	5,748	2,482	3,210	3,744	3,655	1,633	131	128	1,254
Mean	94	193	421	575	703	723	771	1,006	750	167	54	53	332
45													
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	1,900	1,919	282	102	92	607
100%	951	1,516	2,694	3,774	5,614	2,472	3,199	3,708	3,260	1,658	169	142	1,266
Mean	106	216	439	581	712	752	890	1,138	743	187	62	62	354
55 w/WSAs													
0%	16	34	34	46	61	68	150	139	41	22	9	14	52
10%	40	55	74	100	175	267	420	305	90	46	27	33	120
25%	59	73	130	198	297	430	576	605	188	59	41	42	198
50%	84	142	237	336	489	606	816	1,047	420	102	57	62	301
75%	124	246	487	685	995	877	1,089	1,507	996	194	82	81	514
90%	162	404	1,129	1,380	1,457	1,581	1,424	2,187	1,519	337	107	99	624
100%	951	1,540	2,656	3,390	5,711	2,432	3,195	3,710	3,264	1,637	206	173	1,264
Mean	108	221	448	580	716	757	900	1,160	705	193	65	64	356
55													
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	1,381	1,457	1,631	1,536	2,252	1,684	345	115	108	629
100%	1,162	1,852	2,787	3,364	5,275	2,376	3,190	3,561	3,160	1,624	206	173	1,271
Mean	122	253	481	605	738	816	1,034	1,331	753	206	72	73	390
65													
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	5,021	2,632	3,113	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 H1a3-84. 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												
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	791	822	484	94	59	53
AN	86	249	455	789	860	975	771	1,200	654	107	48	54
W	120	283	817	1,139	1,238	1,098	1,120	1,675	1,646	365	67	65
All	94	193	421	575	703	723	771	1,006	750	167	54	53
45												
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	467	802	870	1,002	910	1,322	671	131	57	62
W	141	324	848	1,133	1,235	1,109	1,199	1,765	1,548	398	79	75
All	106	216	439	581	712	752	890	1,138	743	187	62	62
55 w/WSAs												
C	88	80	125	144	238	308	385	358	152	61	41	40
D	88	189	258	204	393	531	641	689	270	76	47	51
BN	94	162	235	374	548	650	969	976	502	109	64	61
AN	99	277	469	806	877	1,000	960	1,395	693	145	61	68
W	146	334	884	1,129	1,249	1,132	1,295	1,956	1,454	421	94	87
All	108	221	448	580	716	757	900	1,160	705	193	65	64
55												
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	1,142	1,251	1,137	1,322	1,989	1,435	420	95	89
All	122	253	481	605	738	816	1,034	1,331	753	206	72	73
65												
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	2,225	1,599	427	112	104
All	141	294	550	659	800	915	1,201	1,535	860	221	84	85

H1a3.2.43 Yuba River below Englebright Reservoir (SWRCB Englebright)

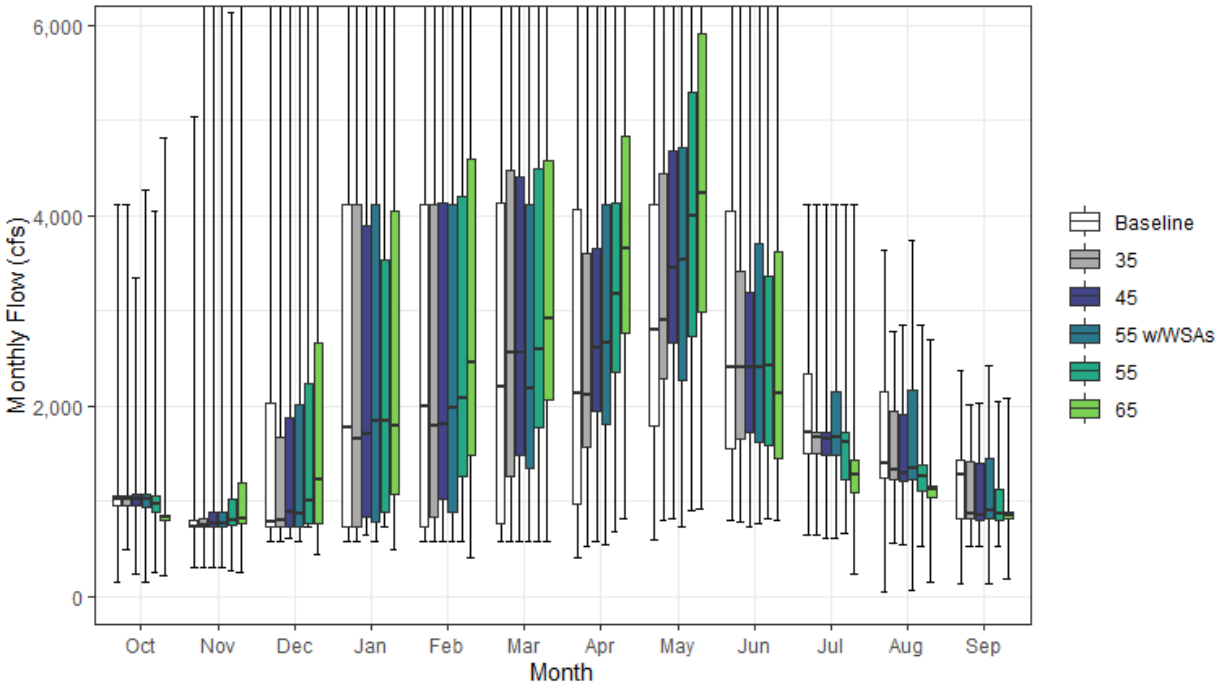

Figure H1a3-43. Yuba River Streamflow below Englebright Reservoir Monthly Boxplot (cfs)

Table H1a3-85. 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													
0%	489	295	581	580	581	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	3,411	1,721	1,946	1,420	2,276
90%	1,100	1,145	4,553	6,721	7,444	6,723	5,091	6,987	5,401	1,779	2,209	1,561	2,967
100%	4,120	6,643	15,954	20,052	22,874	13,509	10,491	9,922	9,581	4,120	2,789	2,009	4,444
Mean	1,030	987	2,078	3,021	3,145	3,329	2,778	3,656	2,936	1,706	1,529	1,085	1,645
45													
0%	231	295	603	638	581	581	571	815	722	609	536	530	510
10%	903	731	731	731	731	908	1,507	1,776	1,313	1,360	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%	1,021	757	877	1,707	1,804	2,563	2,618	3,445	2,409	1,661	1,299	855	1,386
75%	1,064	882	1,884	3,896	4,128	4,403	3,658	4,685	3,191	1,726	1,909	1,401	2,300
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	15,057	19,911	22,739	13,590	10,486	9,926	9,105	4,120	2,852	2,032	4,413
Mean	1,017	1,032	2,061	2,997	3,201	3,367	3,046	3,865	2,862	1,683	1,492	1,053	1,668
55 w/WSAs													
0%	156	295	580	581	580	581	538	725	771	609	65	133	420
10%	903	730	730	731	731	855	1,241	1,560	1,206	1,341	1,115	755	785
25%	939	731	731	780	876	1,343	1,800	2,275	1,628	1,477	1,219	817	999
50%	1,019	757	870	1,843	1,975	2,176	2,672	3,533	2,408	1,675	1,338	896	1,392
75%	1,065	881	2,017	4,121	4,121	4,122	4,121	4,709	3,700	2,146	2,173	1,457	2,351
90%	1,107	1,520	4,121	5,359	5,629	6,458	4,999	6,701	4,859	3,357	2,291	1,586	2,975
100%	4,265	6,575	13,250	19,527	22,836	13,509	10,789	10,103	8,653	4,121	3,739	2,420	4,542
Mean	1,028	1,071	1,963	2,923	3,042	3,223	3,054	3,864	2,843	1,952	1,631	1,137	1,672
55													
0%	245	276	728	730	581	581	680	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	6,736	6,683	6,538	5,813	7,503	4,854	1,885	2,100	1,540	2,913
100%	4,055	6,129	14,275	19,501	22,400	13,348	10,519	10,103	8,667	4,120	2,855	2,055	4,298
Mean	989	1,105	2,115	2,938	3,259	3,493	3,425	4,207	2,828	1,595	1,368	1,005	1,707
65													
0%	225	260	434	486	407	581	811	924	803	230	156	183	540
10%	713	731	731	731	898	1,318	2,069	1,663	1,015	968	907	731	868
25%	802	772	762	1,080	1,484	2,067	2,769	2,982	1,450	1,088	1,039	822	1,117
50%	831	813	1,225	1,792	2,456	2,928	3,663	4,229	2,131	1,276	1,125	850	1,519
75%	852	1,190	2,663	4,050	4,591	4,578	4,827	5,912	3,628	1,427	1,155	887	2,341
90%	963	2,039	5,033	6,630	6,579	6,699	5,716	7,410	5,148	1,818	2,149	1,529	2,928
100%	4,820	7,053	15,213	19,150	19,584	12,404	10,640	10,615	9,095	4,122	2,689	2,078	4,212
Mean	864	1,225	2,312	3,079	3,432	3,668	3,865	4,485	2,794	1,365	1,245	963	1,765

Table H1a3-86. 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												
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	2,697	3,335	2,620	1,688	1,434	1,071
AN	954	1,226	1,881	3,652	3,467	4,831	2,724	4,004	2,815	1,688	1,568	1,151
W	1,109	1,242	4,248	6,089	6,380	5,606	4,387	5,737	4,826	2,084	2,017	1,416
All	1,030	987	2,078	3,021	3,145	3,329	2,778	3,656	2,936	1,706	1,529	1,085
45												
C	989	767	849	830	931	1,153	1,422	1,656	1,265	1,146	978	750
D	992	892	1,038	1,118	1,358	1,881	2,260	2,762	1,863	1,508	1,230	836
BN	996	808	1,107	1,832	2,116	2,592	3,061	3,571	2,559	1,679	1,372	957
AN	929	1,260	1,917	3,666	3,489	4,649	2,928	4,233	2,762	1,688	1,509	1,126
W	1,100	1,327	4,121	6,001	6,335	5,615	4,528	5,891	4,677	2,099	2,029	1,405
All	1,017	1,032	2,061	2,997	3,201	3,367	3,046	3,865	2,862	1,683	1,492	1,053
55 w/WSAs												
C	967	766	802	824	838	983	1,176	1,476	1,221	1,171	957	723
D	999	885	1,027	1,150	1,295	1,760	2,052	2,494	1,762	1,514	1,259	853
BN	1,004	827	1,103	1,940	2,068	2,310	2,987	3,486	2,507	1,719	1,587	1,154
AN	923	1,265	1,890	3,411	3,440	4,360	3,363	4,424	2,894	1,911	1,680	1,309
W	1,139	1,446	3,844	5,770	5,956	5,614	4,708	6,156	4,694	2,853	2,272	1,486
All	1,028	1,071	1,963	2,923	3,042	3,223	3,054	3,864	2,843	1,952	1,631	1,137
55												
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	851	1,133	1,870	2,132	2,668	3,576	4,049	2,628	1,585	1,273	858
AN	892	1,255	2,062	3,659	3,697	4,737	3,432	4,847	2,848	1,640	1,264	848
W	1,127	1,482	4,098	5,768	6,164	5,584	4,792	6,276	4,611	2,119	1,868	1,400
All	989	1,105	2,115	2,938	3,259	3,493	3,425	4,207	2,828	1,595	1,368	1,005
65												
C	793	749	934	941	1,229	1,635	1,991	2,009	1,246	856	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	1,098	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	5,922	6,202	5,392	5,150	6,515	4,665	1,911	1,793	1,376
All	864	1,225	2,312	3,079	3,432	3,668	3,865	4,485	2,794	1,365	1,245	963

H1a3.2.44 Yuba River above Confluence with Feather River (SWRCB Yuba River)

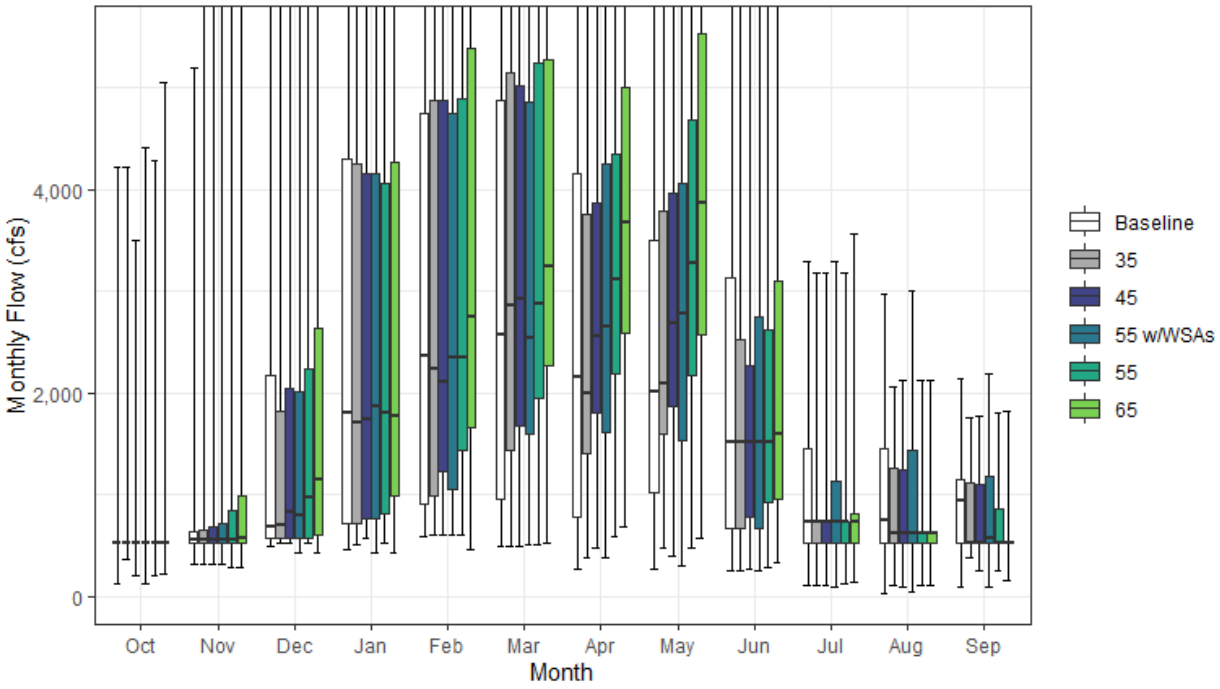

Figure H1a3-44. Yuba River Streamflow above Confluence with Feather River Monthly Boxplot (cfs)

Table H1a3-87. 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													
0%	371	313	523	502	601	495	374	469	250	99	99	376	292
10%	517	523	524	623	779	829	1,047	889	504	505	505	520	522
25%	520	524	570	710	989	1,432	1,398	1,602	674	528	528	528	711
50%	524	557	706	1,714	2,232	2,860	2,003	2,087	1,513	727	627	528	1,152
75%	524	656	1,816	4,247	4,879	5,152	3,751	3,796	2,528	727	1,252	1,112	2,166
90%	524	1,071	4,899	7,447	8,608	7,649	5,534	6,283	4,510	816	1,550	1,285	2,901
100%	4,222	6,780	16,388	22,348	25,541	15,576	11,571	9,440	8,752	3,184	2,058	1,754	4,498
Mean	552	828	2,079	3,225	3,650	3,779	2,828	2,931	2,068	773	855	795	1,465
45													
0%	197	314	523	564	601	496	478	395	269	101	99	247	305
10%	517	523	524	640	778	983	1,344	953	501	505	505	519	570
25%	521	524	572	765	1,224	1,683	1,797	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	1,169
75%	524	687	2,045	4,152	4,879	5,018	3,862	3,962	2,272	727	1,245	1,099	2,191
90%	524	1,350	4,721	7,413	8,555	7,412	5,611	6,344	4,246	874	1,558	1,278	2,852
100%	3,503	6,826	15,503	22,210	25,407	15,673	11,565	9,444	8,281	3,184	2,120	1,777	4,464
Mean	548	871	2,064	3,202	3,707	3,817	3,100	3,156	2,009	764	826	760	1,493
55 w/WSAs													
0%	124	312	424	426	601	504	373	307	250	99	51	99	250
10%	425	523	524	623	771	945	1,128	890	425	428	428	428	529
25%	520	524	570	771	1,054	1,601	1,619	1,539	674	528	527	527	749
50%	523	557	793	1,875	2,353	2,545	2,653	2,784	1,513	727	627	572	1,189
75%	524	718	2,012	4,166	4,753	4,870	4,263	4,069	2,750	1,140	1,432	1,175	2,234
90%	524	1,444	4,541	6,166	6,834	7,412	5,528	5,981	3,968	2,360	1,648	1,328	2,897
100%	4,418	6,720	13,721	21,829	25,504	15,576	11,815	9,347	7,835	3,294	3,008	2,186	4,591
Mean	557	910	1,966	3,127	3,547	3,675	3,112	3,158	1,986	1,027	964	843	1,496
55													
0%	211	290	523	526	601	510	584	482	277	124	99	247	324
10%	425	523	524	610	863	1,184	1,642	1,086	426	428	428	428	629
25%	520	524	564	817	1,435	1,951	2,196	2,177	921	528	528	527	835
50%	523	555	969	1,803	2,345	2,875	3,112	3,279	1,513	727	627	528	1,240
75%	524	839	2,230	4,062	4,897	5,248	4,355	4,684	2,622	728	628	855	2,197
90%	524	1,651	4,789	7,431	7,892	7,507	6,172	6,714	3,944	986	1,376	1,252	2,838
100%	4,282	6,251	14,712	21,803	25,071	15,433	11,598	9,347	7,849	3,184	2,124	1,800	4,359
Mean	563	936	2,112	3,141	3,764	3,945	3,494	3,597	2,063	763	727	696	1,551
65													
0%	219	276	424	426	462	527	690	569	327	146	99	159	344
10%	419	523	524	610	978	1,399	1,940	1,283	518	426	426	425	682
25%	521	524	601	988	1,657	2,277	2,595	2,572	951	528	528	527	932
50%	523	564	1,145	1,777	2,746	3,246	3,678	3,874	1,596	726	627	528	1,417
75%	524	991	2,636	4,264	5,386	5,277	5,006	5,534	3,100	806	628	532	2,330
90%	579	1,951	5,585	7,298	7,631	7,908	6,334	7,043	4,628	1,256	1,594	1,203	2,986
100%	5,060	7,122	15,626	21,503	22,281	14,455	11,671	10,272	8,570	3,560	2,126	1,822	4,351
Mean	578	1,040	2,306	3,275	3,936	4,118	3,973	4,130	2,281	803	741	660	1,675

Table H1a3-88. 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												
C	509	531	666	714	967	1,020	997	916	548	427	427	462
D	508	659	931	1,067	1,353	2,021	1,735	1,656	977	582	580	556
BN	510	607	994	1,861	2,459	2,939	2,708	2,585	1,733	716	744	774
AN	506	1,104	1,829	3,962	4,092	5,458	2,824	3,273	1,943	727	914	866
W	653	1,141	4,462	6,716	7,344	6,401	4,684	5,021	3,942	1,150	1,332	1,134
All	552	828	2,079	3,225	3,650	3,779	2,828	2,931	2,068	773	855	795
45												
C	514	533	708	759	1,051	1,234	1,273	1,106	590	395	392	446
D	504	700	970	1,055	1,545	2,120	2,137	1,988	959	555	541	534
BN	512	625	1,006	1,848	2,513	2,942	3,071	2,824	1,672	708	683	661
AN	491	1,139	1,869	3,975	4,114	5,279	3,025	3,505	1,894	727	856	842
W	645	1,226	4,336	6,629	7,301	6,409	4,829	5,177	3,794	1,165	1,343	1,123
All	548	871	2,064	3,202	3,707	3,817	3,100	3,156	2,009	764	826	760
55 w/WSAs												
C	505	524	660	746	959	1,072	1,027	886	504	376	373	422
D	501	699	960	1,085	1,482	1,999	1,940	1,749	870	572	571	549
BN	512	646	1,002	1,956	2,462	2,663	3,001	2,740	1,622	747	897	856
AN	484	1,145	1,838	3,719	4,065	4,991	3,469	3,701	2,020	949	1,026	1,023
W	683	1,345	4,063	6,398	6,922	6,408	5,010	5,450	3,810	1,915	1,585	1,204
All	557	910	1,966	3,127	3,547	3,675	3,112	3,158	1,986	1,027	964	843
55												
C	523	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	1,879	2,528	3,020	3,606	3,387	1,822	698	606	546
AN	499	1,144	1,995	3,970	4,320	5,366	3,534	4,186	2,012	741	627	553
W	690	1,368	4,316	6,402	7,128	6,381	5,092	5,564	3,731	1,185	1,183	1,118
All	563	936	2,112	3,141	3,764	3,945	3,494	3,597	2,063	763	727	696
65												
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	3,081	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	4,399	5,686	4,157	4,947	2,250	781	627	555
W	735	1,566	4,678	6,563	7,164	6,189	5,510	6,191	4,133	1,327	1,261	1,055
All	578	1,040	2,306	3,275	3,936	4,118	3,973	4,130	2,281	803	741	660

H1a3.2.45 Total Delta Inflow

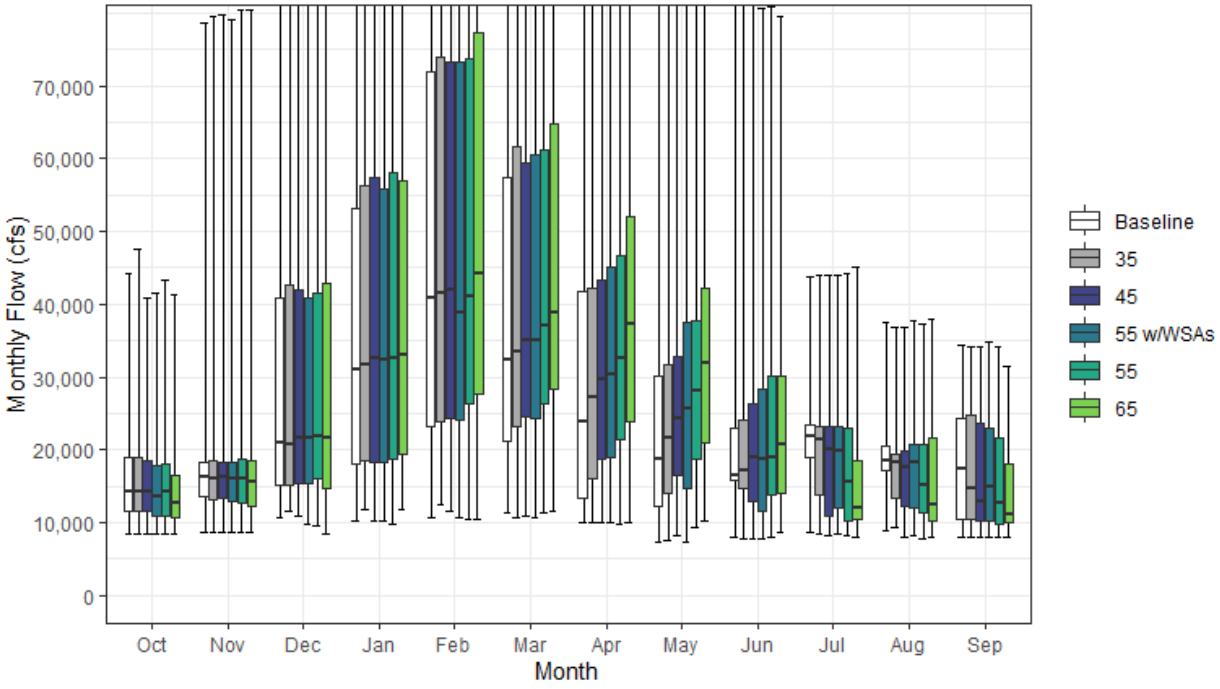

Figure H1a3-45. Total Delta Inflow Monthly Boxplot (cfs)

Table H1a3-89. 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													
0%	8,487	8,599	11,470	11,686	12,481	10,718	9,893	7,552	7,658	8,482	9,343	7,929	7,513
10%	9,365	11,095	13,856	14,798	16,313	16,564	12,103	11,527	11,095	9,092	11,317	8,466	10,346
25%	11,524	13,208	15,068	18,511	23,890	23,194	15,983	14,000	14,611	13,770	13,397	10,509	13,168
50%	14,311	16,068	20,813	31,701	41,541	33,413	27,205	21,705	17,196	21,465	18,376	14,627	17,275
75%	18,848	18,535	42,574	56,271	73,926	61,730	42,292	31,770	24,065	23,234	19,354	24,690	28,811
90%	21,140	27,271	75,366	105,306	130,488	94,502	72,335	55,542	41,611	23,642	23,737	26,149	38,901
100%	47,459	79,512	158,628	258,322	266,016	244,770	152,518	85,222	81,829	43,949	36,740	34,141	63,416
Mean	15,683	18,500	34,479	47,973	59,077	48,498	35,211	26,946	22,330	19,314	17,698	17,246	21,808
45													
0%	8,498	8,671	10,794	10,267	11,554	10,862	9,907	8,161	7,848	8,313	8,041	7,912	7,478
10%	9,341	10,418	13,621	14,467	17,316	18,075	14,130	11,708	11,002	8,756	10,976	8,357	10,679
25%	11,636	13,334	15,395	18,245	24,319	24,514	18,613	16,414	12,862	10,972	12,212	10,249	13,220
50%	14,320	16,194	21,587	32,680	41,900	34,940	29,709	24,267	18,865	20,036	17,648	12,930	17,430
75%	18,507	18,295	41,991	57,389	73,277	59,376	43,262	32,732	26,402	23,097	19,765	23,566	28,938
90%	21,044	27,040	75,116	106,713	130,214	93,545	72,400	55,879	41,627	23,970	23,757	25,214	38,727
100%	40,849	79,767	158,290	257,121	262,359	244,760	152,704	85,457	81,455	44,013	36,880	34,189	63,377
Mean	15,487	18,358	34,594	48,207	59,297	49,083	36,926	28,554	22,738	18,248	17,056	16,398	21,927
55 w/WSAs													
0%	8,513	8,579	9,872	10,150	10,617	10,616	9,898	7,243	7,771	8,489	8,201	7,947	7,142
10%	9,131	10,364	12,567	14,472	17,239	17,036	12,358	10,969	11,019	8,813	10,881	9,081	10,172
25%	10,943	12,827	15,407	18,279	23,977	24,230	18,958	14,729	11,572	11,977	12,024	10,167	12,753
50%	13,622	15,934	21,715	32,274	38,907	34,955	30,431	25,638	18,786	19,757	18,250	14,866	17,212
75%	17,896	18,301	40,908	55,899	73,262	60,489	45,205	37,455	28,377	23,190	20,724	22,871	29,199
90%	21,085	24,929	72,844	104,443	128,366	92,045	73,689	55,704	41,323	25,701	23,895	24,124	38,926
100%	41,440	79,176	156,828	254,917	259,985	244,744	152,134	84,607	80,630	44,019	37,707	34,744	63,459
Mean	15,050	17,889	33,754	47,620	58,688	48,737	37,288	29,315	22,772	18,288	17,213	16,230	21,802
55													
0%	8,514	8,685	9,522	9,748	10,453	11,252	9,868	9,242	8,072	8,176	7,819	7,913	7,407
10%	9,181	10,467	12,507	14,179	17,803	19,535	15,879	13,139	11,142	8,747	9,392	8,265	10,936
25%	10,821	12,746	15,927	18,742	26,386	26,349	21,423	18,686	13,761	10,267	11,272	9,726	13,387
50%	14,270	16,118	21,853	32,491	41,139	37,077	32,634	28,062	18,896	15,666	15,075	12,665	17,999
75%	17,969	18,760	41,490	58,173	73,670	61,256	46,692	37,649	30,049	22,887	20,670	21,690	29,192
90%	21,148	26,169	73,904	103,619	128,599	92,362	74,032	55,961	41,323	25,822	23,972	23,981	38,887
100%	43,398	80,323	157,977	253,721	253,702	243,134	152,752	84,684	80,780	44,178	37,272	34,056	63,370
Mean	14,996	18,342	34,316	48,516	59,693	50,355	39,434	31,004	23,566	16,878	16,158	15,333	22,145
65													
0%	8,509	8,649	8,461	11,878	10,472	11,476	9,907	10,290	8,714	8,020	7,885	7,928	7,953
10%	9,125	10,134	11,541	15,591	17,285	19,256	17,619	14,785	11,193	8,928	9,081	8,243	11,032
25%	10,661	12,118	14,675	19,304	27,653	28,337	23,949	21,016	14,084	10,412	10,125	9,927	13,582
50%	12,758	15,637	21,556	33,055	44,134	38,878	37,209	31,893	20,630	11,977	12,401	11,177	18,261
75%	16,436	18,541	42,866	56,966	77,282	64,807	52,092	42,101	30,133	18,425	21,516	17,950	29,027
90%	20,961	25,297	74,653	104,460	128,106	92,304	78,366	59,070	42,798	25,458	24,246	21,644	39,665
100%	41,393	80,493	157,886	252,540	246,261	242,447	152,240	84,838	79,634	45,190	37,969	31,430	63,278
Mean	14,260	18,005	34,364	49,020	60,566	52,291	42,791	34,122	24,301	15,575	15,270	14,000	22,502

Table H1a3-90. 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												
C	12,784	12,829	17,399	18,759	20,903	18,451	12,156	10,791	10,851	9,724	11,274	8,512
D	14,382	15,880	23,216	20,552	28,952	27,496	18,722	15,561	14,534	14,739	14,483	11,466
BN	15,850	16,314	22,931	31,288	45,434	35,029	29,558	21,034	18,407	20,560	17,616	14,073
AN	14,501	19,456	30,627	58,453	74,055	60,232	35,694	29,605	21,685	23,353	19,095	24,959
W	18,550	24,450	60,702	90,038	104,178	83,759	62,987	46,592	36,912	25,377	22,975	25,068
All	15,683	18,500	34,479	47,973	59,077	48,498	35,211	26,946	22,330	19,314	17,698	17,246
45												
C	12,454	12,736	17,310	18,342	21,891	19,545	13,448	11,997	10,690	9,220	10,593	8,307
D	14,273	15,883	23,219	20,478	29,826	28,946	21,307	17,647	13,736	13,124	13,088	11,005
BN	15,653	16,057	23,227	31,420	45,403	36,560	32,039	23,511	19,072	18,425	16,227	12,390
AN	14,479	19,053	31,030	59,543	73,844	59,306	37,481	31,655	23,381	22,462	18,969	23,319
W	18,294	24,350	60,778	90,567	103,839	83,447	63,776	47,336	37,829	25,022	23,173	24,436
All	15,487	18,358	34,594	48,207	59,297	49,083	36,926	28,554	22,738	18,248	17,056	16,398
55 w/WSAs												
C	12,179	12,091	16,567	17,970	21,031	18,180	12,078	10,289	10,039	8,822	10,070	8,671
D	13,526	15,335	22,787	20,487	29,177	28,379	21,011	16,652	12,966	12,557	13,414	11,137
BN	15,362	15,681	23,085	30,912	44,950	36,283	32,396	24,429	18,495	18,646	16,283	13,097
AN	13,806	17,931	30,928	58,026	73,570	58,561	38,696	34,438	24,203	21,679	19,101	21,926
W	18,000	24,237	58,851	89,750	103,160	83,922	65,205	49,795	38,891	25,957	23,641	23,703
All	15,050	17,889	33,754	47,620	58,688	48,737	37,288	29,315	22,772	18,288	17,213	16,230
55												
C	11,937	12,082	16,743	18,478	22,461	20,650	15,013	13,447	11,036	8,688	9,331	8,330
D	13,673	15,783	23,280	20,853	31,144	31,373	24,467	20,296	14,229	10,945	11,526	10,461
BN	14,812	16,121	23,266	32,240	45,883	38,551	35,473	26,722	19,318	15,354	14,365	11,716
AN	14,296	18,715	31,376	60,539	73,720	60,573	40,495	35,164	24,658	19,335	18,166	19,267
W	17,996	24,814	59,956	90,321	103,621	83,506	65,519	49,267	39,348	25,578	23,529	23,359
All	14,996	18,342	34,316	48,516	59,693	50,355	39,434	31,004	23,566	16,878	16,158	15,333
65												
C	11,244	11,705	16,590	20,050	23,228	22,072	16,649	15,101	11,851	8,886	9,004	8,277
D	12,844	15,645	23,655	21,263	33,087	34,384	27,557	22,895	15,026	10,559	10,489	10,280
BN	14,180	15,429	23,017	33,119	46,782	41,394	39,980	30,327	19,930	12,030	11,911	11,284
AN	13,430	18,312	30,338	61,120	74,488	62,733	44,636	38,897	24,943	15,810	15,975	15,912
W	17,291	24,603	60,495	90,057	103,793	84,263	68,946	52,992	40,256	24,972	23,964	20,735
All	14,260	18,005	34,364	49,020	60,566	52,291	42,791	34,122	24,301	15,575	15,270	14,000

H1a3.2.46 Delta Outflow (SWRCB Delta)

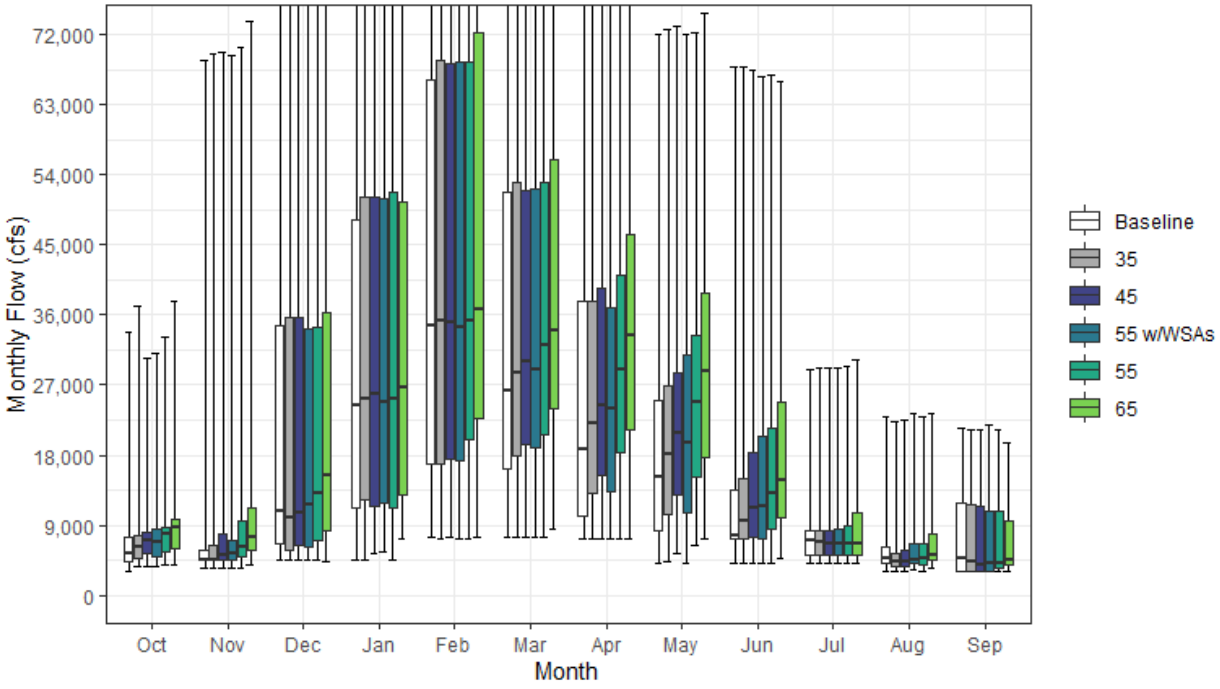

Figure H1a3-46. Delta Outflow Monthly Boxplot (cfs)

Table H1a3-91. 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													
0%	3,644	3,500	4,505	4,508	7,222	7,498	7,187	4,277	4,138	4,161	3,159	3,056	3,965
10%	4,163	3,810	4,665	8,246	10,356	10,885	9,116	7,465	7,238	4,190	3,630	3,085	5,606
25%	4,715	4,507	5,827	12,270	16,835	17,951	13,023	10,451	7,289	5,185	3,785	3,100	7,388
50%	6,286	4,607	9,962	25,184	35,147	28,527	22,155	18,083	9,508	6,728	4,410	4,325	11,322
75%	7,692	6,334	35,738	51,046	68,693	52,985	37,670	26,986	14,906	8,220	5,462	11,631	21,899
90%	8,837	15,324	67,928	98,342	123,727	87,317	61,487	45,654	28,852	8,469	9,775	13,040	31,081
100%	37,077	69,549	149,575	250,649	258,764	239,647	144,432	72,568	67,810	29,126	22,288	21,228	55,224
Mean	6,878	8,329	25,490	41,422	52,525	42,316	30,665	22,009	14,043	7,386	5,648	7,220	15,821
45													
0%	3,616	3,500	4,505	5,366	7,389	7,493	7,188	5,297	4,136	4,158	3,137	3,054	4,242
10%	4,697	4,471	4,800	7,411	11,166	11,646	10,513	7,939	7,239	4,184	3,629	3,084	6,123
25%	5,265	4,525	6,350	11,447	17,438	19,366	15,489	12,842	7,454	5,180	3,771	3,097	7,698
50%	6,938	5,152	10,674	25,856	35,132	30,051	24,392	20,900	11,284	6,706	4,401	3,850	11,727
75%	8,080	7,796	35,587	51,073	68,187	51,920	39,402	28,640	18,230	8,229	5,716	11,463	22,244
90%	9,371	15,521	67,884	99,957	121,295	87,572	62,762	45,781	29,273	8,934	9,796	12,527	31,221
100%	30,506	69,805	149,237	249,449	255,105	239,613	144,606	73,010	67,435	29,190	22,427	21,276	55,182
Mean	7,272	8,666	25,831	41,598	52,816	42,929	32,484	23,779	15,139	7,363	5,658	6,952	16,217
55 w/WSAs													
0%	3,649	3,500	4,500	5,589	7,226	7,506	7,202	4,159	4,147	4,175	3,341	3,057	4,118
10%	4,410	3,763	5,106	7,751	11,044	10,980	9,079	7,484	7,245	4,200	3,652	3,089	5,852
25%	4,897	4,509	6,252	11,849	17,203	18,947	13,271	10,519	7,309	5,188	4,074	3,101	7,647
50%	6,919	5,465	11,727	24,896	34,397	28,932	24,055	19,511	11,463	6,718	4,590	4,171	11,193
75%	8,574	7,084	34,226	50,834	68,537	52,126	36,818	30,857	20,367	8,488	6,705	10,842	22,456
90%	9,626	14,148	65,613	97,628	119,757	83,895	62,840	46,414	29,277	10,650	9,787	11,558	31,700
100%	31,146	69,213	147,766	247,245	252,708	237,806	144,049	71,953	66,611	29,196	23,254	21,831	55,154
Mean	7,306	8,575	25,231	41,152	52,189	42,604	31,276	23,324	15,374	7,693	5,917	6,813	16,036
55													
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	4,271
10%	4,983	4,500	5,415	8,380	11,818	13,268	12,631	9,546	7,236	4,184	3,722	3,091	6,788
25%	5,501	4,903	7,029	11,124	19,974	20,618	18,396	15,224	8,575	5,172	3,950	3,417	8,685
50%	7,894	6,297	13,046	25,238	35,200	32,031	28,945	24,785	13,060	6,702	4,740	4,103	12,756
75%	8,740	9,528	34,473	51,858	68,459	53,003	41,017	33,375	21,555	8,939	6,591	10,721	22,964
90%	9,834	15,251	66,671	97,339	120,817	84,706	64,616	47,889	29,277	10,745	10,034	11,332	31,952
100%	33,125	70,360	148,923	246,048	246,446	237,976	144,654	72,252	66,761	29,355	22,819	21,143	55,175
Mean	7,877	9,547	26,343	41,917	53,325	44,445	35,058	26,309	16,698	7,683	5,935	6,748	16,905
65													
0%	3,951	3,806	4,349	7,197	7,431	8,487	7,185	7,242	4,748	4,144	3,393	3,049	5,111
10%	5,304	4,636	6,282	9,931	13,692	15,403	14,748	11,152	7,247	4,275	4,046	3,299	7,717
25%	6,049	5,794	8,308	12,844	22,612	23,952	21,241	17,793	9,939	5,186	4,517	3,947	9,835
50%	8,650	7,442	15,418	26,588	36,686	34,060	33,341	28,669	14,862	6,692	5,196	4,534	14,332
75%	9,842	11,261	36,198	50,536	72,214	55,886	46,377	38,822	24,880	10,564	7,790	9,639	24,546
90%	11,087	17,570	68,747	99,393	120,791	85,656	69,304	52,891	33,377	12,698	10,148	10,425	33,416
100%	37,775	73,618	151,349	244,958	243,187	238,642	145,025	74,795	65,991	30,219	23,339	19,567	56,013
Mean	8,606	10,826	27,871	42,822	54,867	46,838	38,507	29,764	18,558	8,357	6,562	6,573	18,007

Table H1a3-92. 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												
C	5,647	4,371	9,282	12,818	15,155	12,902	8,781	7,373	6,418	4,213	3,792	3,398
D	5,882	6,082	13,412	13,649	22,994	22,489	15,385	11,729	7,841	5,185	3,959	3,481
BN	6,842	6,166	13,615	24,724	38,977	29,360	26,663	17,333	9,997	6,873	4,621	3,898
AN	6,214	9,335	20,935	52,665	67,689	53,977	31,202	25,958	12,057	8,730	4,951	12,191
W	8,552	13,054	52,334	83,121	96,625	76,083	55,862	38,734	26,016	10,480	8,806	12,115
All	6,878	8,329	25,490	41,422	52,525	42,316	30,665	22,009	14,043	7,386	5,648	7,220
45												
C	5,856	4,408	9,574	12,622	16,300	14,167	10,140	8,771	6,557	4,179	3,859	3,260
D	6,337	6,483	13,853	13,143	23,836	23,969	17,984	14,109	8,560	5,182	3,763	3,380
BN	7,306	6,439	14,129	24,887	39,097	30,900	29,148	19,955	11,665	6,712	4,514	3,567
AN	6,729	9,591	21,731	53,742	67,679	53,080	33,333	28,018	14,099	8,342	4,979	11,986
W	8,910	13,579	52,336	83,646	96,286	75,732	56,808	39,600	27,158	10,682	9,004	11,672
All	7,272	8,666	25,831	41,598	52,816	42,929	32,484	23,779	15,139	7,363	5,658	6,952
55 w/WSAs												
C	5,739	4,431	9,136	12,585	15,208	12,898	8,758	7,075	6,216	4,341	4,227	3,218
D	6,530	6,274	13,800	13,520	23,215	23,340	15,545	12,420	8,066	5,192	3,799	3,469
BN	7,076	6,239	14,221	24,381	38,627	30,623	26,904	18,782	11,138	6,712	4,372	3,764
AN	6,750	9,088	21,580	52,268	67,430	52,404	32,394	28,187	14,967	8,514	5,553	11,494
W	9,079	13,747	50,631	82,828	95,652	76,241	57,144	40,917	28,464	11,608	9,496	11,241
All	7,306	8,575	25,231	41,152	52,189	42,604	31,276	23,324	15,374	7,693	5,917	6,813
55												
C	6,209	4,810	10,221	12,439	17,049	16,063	11,913	10,340	7,211	4,190	4,144	3,239
D	6,844	7,458	14,879	13,887	25,375	26,528	21,188	16,895	9,664	5,189	3,838	3,640
BN	7,706	7,038	14,963	25,576	39,792	32,951	32,404	23,305	13,695	6,734	4,382	3,888
AN	7,621	10,098	23,039	54,791	67,616	54,601	36,829	31,321	16,584	8,511	5,876	10,802
W	9,736	14,973	51,876	83,392	96,022	75,938	58,545	41,627	28,861	11,646	9,436	11,087
All	7,877	9,547	26,343	41,917	53,325	44,445	35,058	26,309	16,698	7,683	5,935	6,748
65												
C	6,739	5,534	11,386	14,568	18,935	18,475	13,759	12,008	8,050	4,310	4,246	3,368
D	7,601	8,713	16,939	14,939	28,299	30,272	24,541	19,693	10,939	5,431	4,435	4,282
BN	8,101	8,099	16,396	26,852	41,432	36,238	36,954	27,030	15,788	6,907	4,962	4,513
AN	8,535	11,422	24,111	55,415	68,269	56,679	40,842	35,097	19,117	9,153	6,941	10,103
W	10,686	16,687	53,453	83,416	96,662	76,890	61,999	46,217	31,280	13,261	10,219	9,856
All	8,606	10,826	27,871	42,822	54,867	46,838	38,507	29,764	18,558	8,357	6,562	6,573

H1a3.3 Delta Interior Flows

H1a3.3.1 Delta Cross Channel

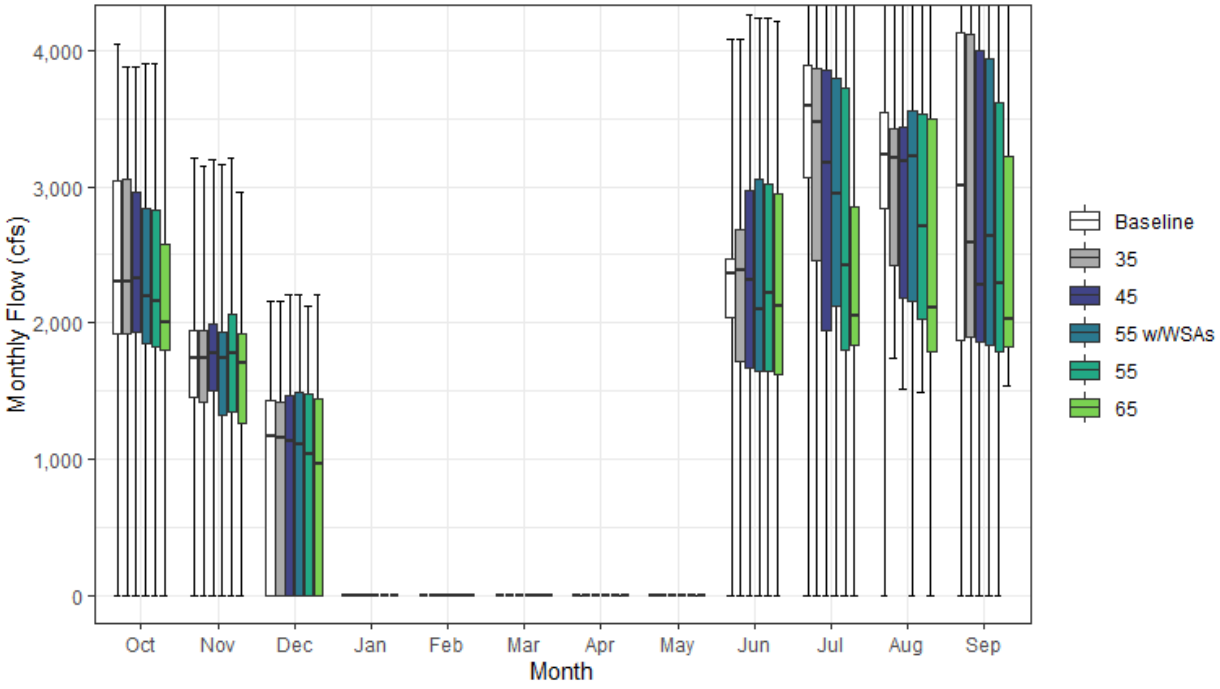

Figure H1a3-47. Delta Cross Channel Monthly Boxplot (cfs)

Table H1a3-93. 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													
0%	0	0	0	0	0	0	0	0	0	0	1,743	0	294
10%	1,552	1,012	0	0	0	0	0	0	0	1,690	2,083	1,570	708
25%	1,919	1,416	0	0	0	0	0	0	1,713	2,457	2,419	1,901	825
50%	2,300	1,742	1,157	0	0	0	0	0	2,389	3,468	3,212	2,586	1,014
75%	3,051	1,939	1,412	0	0	0	0	0	2,681	3,867	3,420	4,115	1,137
90%	3,334	2,249	1,710	0	0	0	0	0	3,223	4,068	3,792	4,520	1,198
100%	3,879	3,147	2,164	0	0	0	0	0	4,078	4,649	4,778	4,868	1,336
Mean	2,436	1,629	931	0	0	0	0	0	2,138	3,122	3,031	2,955	985
45													
0%	0	0	0	0	0	0	0	0	0	0	1,510	0	295
10%	1,546	1,055	0	0	0	0	0	0	0	1,657	2,040	1,562	680
25%	1,926	1,503	0	0	0	0	0	0	1,671	1,949	2,183	1,864	781
50%	2,326	1,775	1,129	0	0	0	0	0	2,310	3,169	3,185	2,275	1,031
75%	2,960	1,995	1,466	0	0	0	0	0	2,977	3,854	3,435	4,003	1,120
90%	3,317	2,356	1,833	0	0	0	0	0	3,506	4,089	3,750	4,343	1,210
100%	3,882	3,196	2,206	0	0	0	0	0	4,256	4,475	4,798	4,626	1,352
Mean	2,414	1,721	959	0	0	0	0	0	2,187	2,936	2,919	2,812	967
55 w/WSAs													
0%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	1,544	1,064	0	0	0	0	0	0	0	1,681	1,939	1,570	685
25%	1,845	1,326	0	0	0	0	0	0	1,649	2,119	2,158	1,839	801
50%	2,191	1,743	1,111	0	0	0	0	0	2,094	2,950	3,218	2,643	964
75%	2,845	1,931	1,491	0	0	0	0	0	3,052	3,799	3,560	3,941	1,111
90%	3,337	2,224	1,780	0	0	0	0	0	3,665	4,068	3,712	4,205	1,200
100%	3,900	3,165	2,201	0	0	0	0	0	4,239	4,694	4,574	4,552	1,366
Mean	2,335	1,641	952	0	0	0	0	0	2,162	2,946	2,906	2,794	954
55													
0%	0	0	0	0	0	0	0	0	0	0	1,489	0	299
10%	1,534	1,041	0	0	0	0	0	0	0	1,649	1,749	1,559	660
25%	1,827	1,349	0	0	0	0	0	0	1,648	1,805	2,028	1,783	768
50%	2,156	1,771	1,038	0	0	0	0	0	2,218	2,427	2,705	2,292	932
75%	2,824	2,061	1,479	0	0	0	0	0	3,020	3,721	3,529	3,615	1,081
90%	3,317	2,428	1,850	0	0	0	0	0	3,669	4,047	3,770	4,068	1,176
100%	3,900	3,213	2,124	0	0	0	0	0	4,236	4,645	4,861	4,529	1,325
Mean	2,316	1,685	918	0	0	0	0	0	2,152	2,685	2,754	2,628	918
65													
0%	0	0	0	0	0	0	0	0	0	0	0	1,538	531
10%	1,536	1,036	0	0	0	0	0	0	0	1,668	1,682	1,567	633
25%	1,803	1,266	0	0	0	0	0	0	1,626	1,840	1,789	1,821	722
50%	2,009	1,708	960	0	0	0	0	0	2,120	2,054	2,106	2,029	850
75%	2,572	1,924	1,442	0	0	0	0	0	2,946	2,851	3,501	3,219	993
90%	3,297	2,328	1,812	0	0	0	0	0	3,574	3,945	3,886	3,448	1,081
100%	4,346	2,962	2,204	0	0	0	0	0	4,212	4,768	4,671	4,440	1,218
Mean	2,234	1,601	877	0	0	0	0	0	2,090	2,441	2,546	2,441	863

Table H1a3-94. 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												
C	2,141	1,500	1,122	0	0	0	0	0	1,656	1,827	2,111	1,605
D	2,379	1,651	1,246	0	0	0	0	0	2,119	2,644	2,617	2,086
BN	2,580	1,848	1,056	0	0	0	0	0	2,568	3,644	3,162	2,511
AN	2,406	1,682	1,111	0	0	0	0	0	2,813	3,948	3,325	4,422
W	2,557	1,521	448	0	0	0	0	0	1,867	3,503	3,625	4,008
All	2,436	1,629	931	0	0	0	0	0	2,138	3,122	3,031	2,955
45												
C	2,078	1,482	1,106	0	0	0	0	0	1,621	1,735	1,986	1,566
D	2,358	1,821	1,245	0	0	0	0	0	1,973	2,345	2,352	2,008
BN	2,547	1,815	1,073	0	0	0	0	0	2,646	3,249	2,899	2,222
AN	2,405	1,647	1,300	0	0	0	0	0	3,065	3,802	3,327	4,152
W	2,553	1,747	464	0	0	0	0	0	2,004	3,465	3,682	3,905
All	2,414	1,721	959	0	0	0	0	0	2,187	2,936	2,919	2,812
55 w/WSAs												
C	2,032	1,408	1,054	0	0	0	0	0	1,551	1,659	1,880	1,633
D	2,224	1,757	1,247	0	0	0	0	0	1,874	2,241	2,422	2,034
BN	2,497	1,772	1,073	0	0	0	0	0	2,573	3,282	2,928	2,357
AN	2,284	1,580	1,319	0	0	0	0	0	3,202	3,649	3,340	3,900
W	2,496	1,623	458	0	0	0	0	0	2,022	3,654	3,621	3,804
All	2,335	1,641	952	0	0	0	0	0	2,162	2,946	2,906	2,794
55												
C	1,980	1,400	1,043	0	0	0	0	0	1,667	1,640	1,758	1,575
D	2,246	1,805	1,250	0	0	0	0	0	2,040	1,937	2,033	1,896
BN	2,390	1,819	1,098	0	0	0	0	0	2,657	2,673	2,551	2,105
AN	2,376	1,663	1,149	0	0	0	0	0	2,859	3,226	3,195	3,436
W	2,477	1,673	400	0	0	0	0	0	1,891	3,581	3,765	3,733
All	2,316	1,685	918	0	0	0	0	0	2,152	2,685	2,754	2,628
65												
C	1,854	1,355	1,011	0	0	0	0	0	1,794	1,679	1,707	1,571
D	2,092	1,635	1,241	0	0	0	0	0	2,140	1,857	1,843	1,865
BN	2,271	1,731	1,062	0	0	0	0	0	2,244	2,058	2,068	2,025
AN	2,216	1,601	1,124	0	0	0	0	0	2,861	2,565	2,802	2,837
W	2,523	1,626	324	0	0	0	0	0	1,804	3,468	3,711	3,433
All	2,234	1,601	877	0	0	0	0	0	2,090	2,441	2,546	2,441

H1a3.3.2 Georgiana Slough

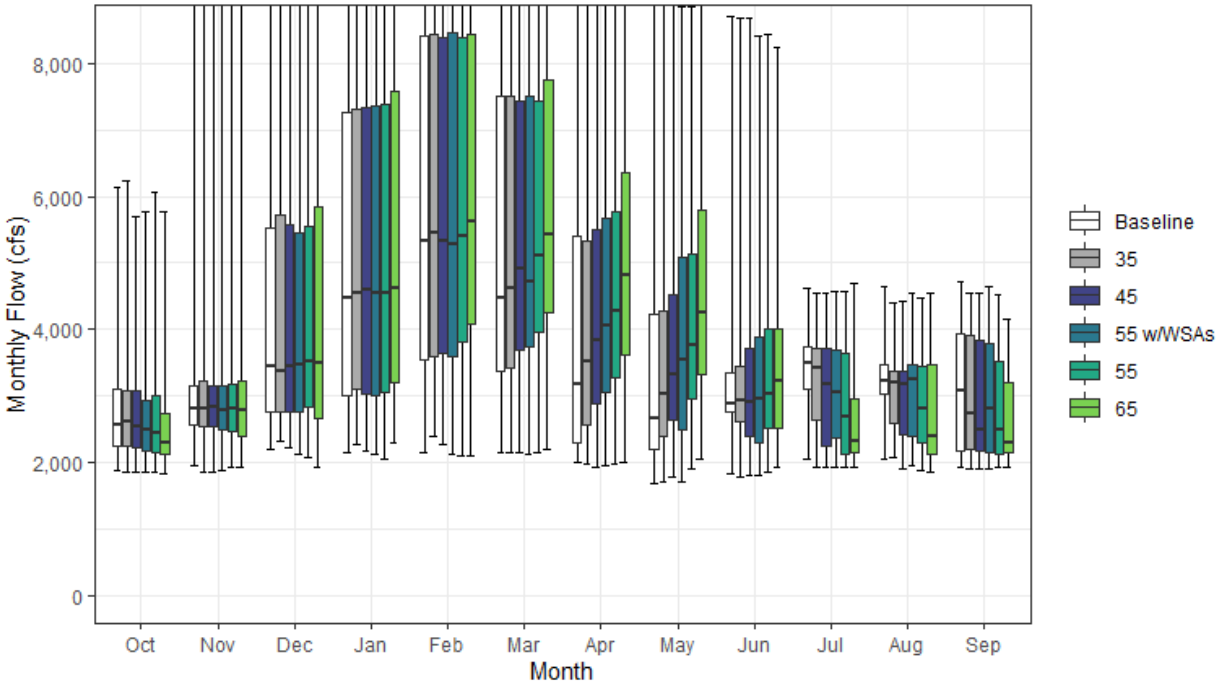

Figure H1a3-48. Georgiana Slough Monthly Boxplot (cfs)

Table H1a3-95. 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													
0%	1,851	1,860	2,326	2,275	2,396	2,141	1,964	1,705	1,781	1,918	2,074	1,911	1,556
10%	1,943	2,247	2,603	2,640	2,835	2,846	2,195	2,136	2,214	2,066	2,335	1,961	1,877
25%	2,244	2,536	2,762	3,111	3,591	3,428	2,557	2,403	2,606	2,639	2,593	2,203	2,179
50%	2,603	2,811	3,367	4,545	5,455	4,614	3,506	3,019	2,919	3,411	3,201	2,724	2,589
75%	3,083	3,218	5,709	7,316	8,436	7,503	5,334	4,286	3,439	3,704	3,360	3,898	3,534
90%	3,347	4,306	8,609	9,662	10,373	9,052	8,188	6,665	4,631	3,904	3,645	4,208	4,144
100%	6,231	9,110	11,457	11,830	12,015	11,592	11,012	8,897	8,693	4,543	4,401	4,551	5,299
Mean	2,700	3,112	4,569	5,385	6,061	5,468	4,329	3,656	3,285	3,170	3,062	3,042	2,881
45													
0%	1,854	1,853	2,229	2,167	2,268	2,153	1,926	1,769	1,806	1,921	1,896	1,905	1,546
10%	1,948	2,131	2,580	2,631	2,949	3,062	2,465	2,182	2,194	2,015	2,302	1,940	1,911
25%	2,232	2,548	2,764	3,029	3,633	3,693	2,888	2,641	2,379	2,240	2,412	2,172	2,178
50%	2,550	2,836	3,433	4,597	5,320	4,920	3,842	3,316	2,917	3,172	3,180	2,484	2,608
75%	3,072	3,158	5,584	7,334	8,400	7,433	5,507	4,509	3,706	3,715	3,372	3,825	3,567
90%	3,303	4,216	8,588	9,661	10,327	9,050	8,185	6,735	4,592	3,883	3,613	4,089	4,141
100%	5,695	9,122	11,302	11,829	12,000	11,592	11,008	8,899	8,680	4,547	4,417	4,553	5,300
Mean	2,677	3,099	4,579	5,381	6,095	5,556	4,541	3,851	3,324	3,027	2,976	2,933	2,893
55 w/WSAs													
0%	1,852	1,875	2,117	2,120	2,132	2,127	1,941	1,695	1,804	1,925	1,949	1,904	1,507
10%	1,934	2,099	2,427	2,623	2,947	2,898	2,271	2,136	2,187	2,032	2,285	2,033	1,874
25%	2,162	2,483	2,765	3,013	3,579	3,735	3,056	2,486	2,293	2,371	2,402	2,155	2,123
50%	2,487	2,789	3,479	4,553	5,286	4,716	4,062	3,545	2,946	3,048	3,250	2,800	2,635
75%	2,927	3,142	5,460	7,358	8,460	7,507	5,680	5,091	3,889	3,678	3,473	3,776	3,628
90%	3,335	3,914	8,521	9,487	10,268	9,046	8,191	6,695	4,868	3,864	3,613	3,976	4,156
100%	5,778	9,103	11,267	11,818	11,993	11,592	11,004	8,863	8,424	4,560	4,545	4,644	5,307
Mean	2,618	3,035	4,522	5,359	6,072	5,532	4,611	3,977	3,341	3,035	3,005	2,919	2,892
55													
0%	1,843	1,915	2,077	2,054	2,108	2,158	1,963	1,904	1,847	1,929	1,880	1,915	1,537
10%	1,918	2,155	2,413	2,591	3,021	3,285	2,686	2,369	2,196	2,006	2,079	1,939	1,923
25%	2,146	2,475	2,831	3,049	3,817	3,953	3,261	2,962	2,515	2,123	2,293	2,111	2,204
50%	2,433	2,807	3,511	4,555	5,395	5,102	4,266	3,756	3,019	2,685	2,812	2,498	2,641
75%	3,002	3,179	5,543	7,390	8,398	7,437	5,777	5,144	4,009	3,638	3,444	3,523	3,655
90%	3,300	4,089	8,553	9,480	10,348	8,992	8,252	6,883	5,011	3,849	3,628	3,866	4,146
100%	6,065	9,127	11,364	11,817	11,965	11,592	11,002	8,861	8,426	4,560	4,465	4,526	5,298
Mean	2,606	3,097	4,562	5,419	6,150	5,710	4,848	4,156	3,418	2,835	2,849	2,791	2,917
65													
0%	1,841	1,923	1,922	2,304	2,109	2,187	1,994	2,048	1,938	1,914	1,864	1,917	1,612
10%	1,918	2,088	2,271	2,680	2,938	3,186	2,918	2,527	2,244	2,019	2,030	1,940	1,961
25%	2,121	2,383	2,666	3,200	4,082	4,252	3,612	3,317	2,523	2,154	2,114	2,135	2,263
50%	2,283	2,786	3,491	4,614	5,634	5,435	4,817	4,255	3,227	2,323	2,396	2,294	2,679
75%	2,736	3,215	5,845	7,572	8,445	7,763	6,369	5,802	4,007	2,963	3,474	3,206	3,628
90%	3,323	3,961	8,599	9,436	10,299	9,108	8,399	7,090	5,283	3,811	3,741	3,382	4,236
100%	5,759	9,102	11,323	11,815	11,937	11,592	10,993	8,871	8,253	4,701	4,549	4,142	5,262
Mean	2,501	3,040	4,548	5,474	6,244	5,937	5,245	4,555	3,492	2,649	2,729	2,610	2,952

Table H1a3-96. 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												
C	2,380	2,464	2,977	3,037	3,284	3,037	2,216	2,085	2,203	2,139	2,356	1,969
D	2,562	2,825	3,633	3,302	4,174	4,044	2,893	2,542	2,613	2,765	2,744	2,338
BN	2,716	2,864	3,492	4,491	5,580	4,743	3,992	3,048	3,010	3,531	3,162	2,663
AN	2,583	3,217	4,296	6,789	7,720	7,006	4,574	3,968	3,227	3,764	3,287	4,128
W	3,008	3,785	6,896	8,171	8,565	7,651	6,625	5,570	4,554	3,550	3,517	3,938
All	2,700	3,112	4,569	5,385	6,061	5,468	4,329	3,656	3,285	3,170	3,062	3,042
45												
C	2,332	2,442	2,965	2,976	3,415	3,182	2,381	2,236	2,172	2,069	2,261	1,939
D	2,546	2,832	3,641	3,284	4,266	4,233	3,226	2,804	2,484	2,536	2,541	2,277
BN	2,691	2,825	3,527	4,475	5,536	4,900	4,297	3,358	3,079	3,229	2,960	2,442
AN	2,582	3,172	4,309	6,841	7,701	6,977	4,784	4,214	3,450	3,653	3,289	3,921
W	2,987	3,790	6,901	8,192	8,579	7,638	6,716	5,646	4,658	3,521	3,561	3,859
All	2,677	3,099	4,579	5,381	6,095	5,556	4,541	3,851	3,324	3,027	2,976	2,933
55 w/WSAs												
C	2,296	2,357	2,864	2,936	3,322	3,021	2,237	2,062	2,110	2,010	2,179	1,990
D	2,444	2,758	3,603	3,292	4,226	4,178	3,236	2,711	2,396	2,456	2,595	2,297
BN	2,652	2,776	3,530	4,436	5,531	4,881	4,390	3,515	3,015	3,255	2,983	2,545
AN	2,489	3,013	4,335	6,770	7,678	6,907	4,970	4,610	3,570	3,536	3,299	3,728
W	2,947	3,772	6,783	8,186	8,593	7,726	6,882	5,967	4,807	3,667	3,641	3,785
All	2,618	3,035	4,522	5,359	6,072	5,532	4,611	3,977	3,341	3,035	3,005	2,919
55												
C	2,257	2,349	2,877	2,990	3,453	3,325	2,581	2,418	2,213	1,995	2,086	1,946
D	2,460	2,813	3,638	3,323	4,411	4,508	3,634	3,134	2,543	2,223	2,297	2,192
BN	2,570	2,830	3,571	4,570	5,628	5,105	4,725	3,763	3,088	2,787	2,694	2,352
AN	2,559	3,129	4,367	6,906	7,621	7,054	5,165	4,651	3,598	3,212	3,187	3,372
W	2,942	3,860	6,844	8,194	8,604	7,709	6,898	5,882	4,838	3,611	3,625	3,726
All	2,606	3,097	4,562	5,419	6,150	5,710	4,848	4,156	3,418	2,835	2,849	2,791
65												
C	2,159	2,296	2,853	3,186	3,535	3,485	2,794	2,636	2,325	2,026	2,047	1,942
D	2,342	2,792	3,662	3,373	4,627	4,849	4,036	3,466	2,632	2,162	2,151	2,168
BN	2,479	2,729	3,519	4,672	5,680	5,426	5,269	4,235	3,149	2,316	2,323	2,290
AN	2,437	3,062	4,299	6,965	7,712	7,293	5,700	5,130	3,603	2,704	2,887	2,913
W	2,840	3,806	6,851	8,146	8,646	7,824	7,242	6,349	4,919	3,529	3,710	3,370
All	2,501	3,040	4,548	5,474	6,244	5,937	5,245	4,555	3,492	2,649	2,729	2,610

H1a3.3.3 San Joaquin River at Jersey Point (QWEST)

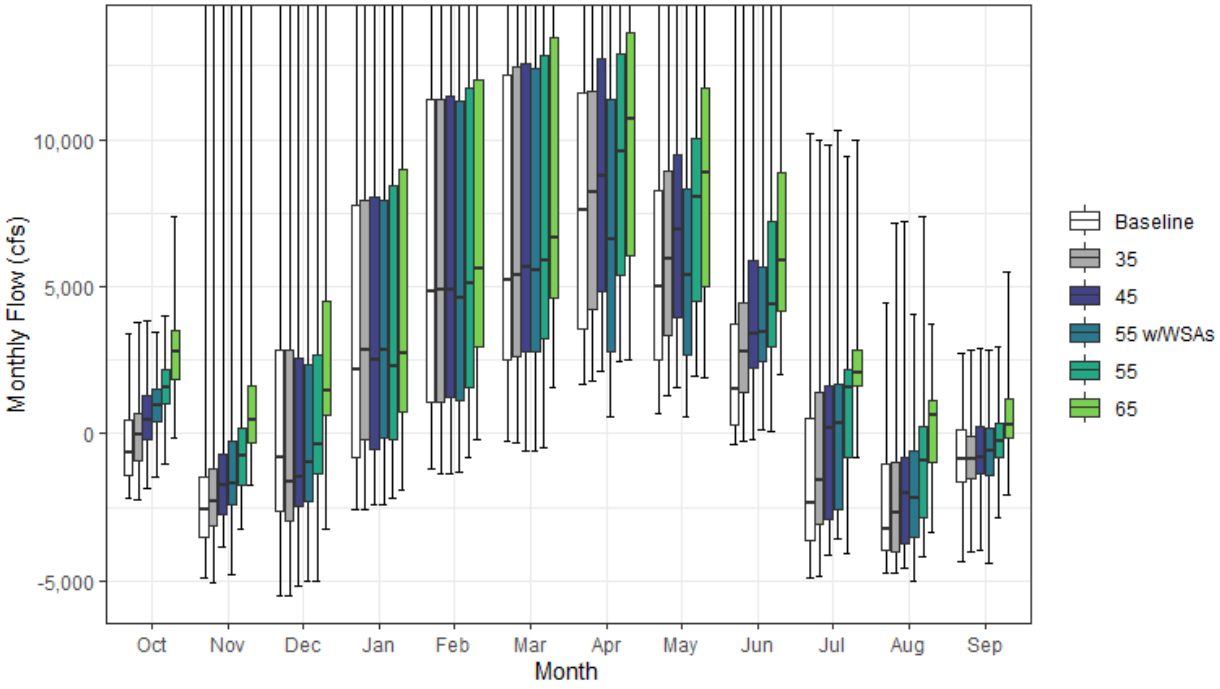

Figure H1a3-49. San Joaquin River at Jersey Point (QWEST) Monthly Boxplot (cfs)

Table H1a3-97. 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													
0%	-2,236	-5,086	-5,491	-2,561	-1,360	-339	1,816	1,270	-253	-4,837	-4,746	-4,002	-618
10%	-1,483	-4,045	-3,834	-1,579	-458	465	2,604	1,795	164	-3,806	-4,423	-2,789	44
25%	-946	-3,113	-2,984	-218	1,072	2,601	4,209	3,339	1,415	-3,101	-4,033	-1,556	485
50%	-60	-2,302	-1,624	2,867	4,876	5,392	8,226	5,961	2,794	-1,567	-2,687	-846	1,268
75%	668	-1,188	2,853	7,950	11,337	12,465	11,629	8,945	4,457	1,411	-965	-72	3,406
90%	1,613	98	9,128	15,833	21,077	18,726	16,976	12,709	9,716	1,824	462	542	5,571
100%	3,756	16,196	28,153	75,252	57,257	63,146	37,260	26,874	25,292	9,957	7,156	2,828	15,718
Mean	19	-1,880	1,249	5,870	8,306	8,348	9,339	7,014	3,899	-868	-2,234	-859	2,282
45													
0%	-1,862	-3,857	-5,198	-2,399	-1,340	-576	2,119	1,561	-180	-4,143	-4,584	-3,952	-481
10%	-987	-3,336	-3,222	-1,696	-262	948	2,822	2,406	1,302	-3,507	-4,188	-1,857	326
25%	-210	-2,719	-2,471	-542	1,215	2,764	4,826	3,970	2,210	-2,898	-3,723	-1,374	716
50%	439	-1,727	-1,453	2,515	4,909	5,667	8,769	6,959	3,368	169	-2,044	-793	1,533
75%	1,279	-715	2,576	8,055	11,477	12,590	12,761	9,496	5,905	1,642	-807	258	3,747
90%	2,042	223	9,065	15,812	20,898	18,685	17,901	12,899	9,744	2,106	607	771	5,916
100%	3,857	16,019	28,122	75,244	57,239	63,121	37,248	26,984	25,266	9,813	7,225	2,893	15,730
Mean	552	-1,334	1,505	5,835	8,420	8,528	9,824	7,599	4,788	-228	-1,852	-614	2,574
55 w/WSAs													
0%	-1,473	-4,803	-5,002	-2,399	-1,285	-574	593	596	141	-3,551	-4,990	-4,381	-120
10%	-604	-2,887	-2,932	-1,519	-394	949	2,257	1,846	1,765	-3,118	-4,191	-2,324	396
25%	395	-2,438	-2,289	-145	1,140	2,772	2,789	2,678	2,458	-2,603	-3,526	-1,410	646
50%	950	-1,716	-958	2,858	4,623	5,558	6,590	5,363	3,427	378	-2,176	-602	1,318
75%	1,503	-238	2,351	7,925	11,292	12,411	11,331	8,323	5,670	1,681	-576	163	3,693
90%	1,910	261	8,957	15,818	20,762	18,770	15,910	12,339	10,233	2,270	1,539	933	5,858
100%	3,426	16,008	28,076	75,230	57,207	61,330	37,318	26,934	25,075	10,287	4,083	2,862	15,311
Mean	866	-1,127	1,651	5,890	8,305	8,424	8,156	6,368	4,876	42	-1,774	-692	2,452
55													
0%	-1,007	-3,231	-5,004	-2,174	-803	-463	2,437	1,954	73	-4,048	-4,195	-2,876	56
10%	-328	-2,358	-2,169	-1,506	45	2,085	3,402	2,692	2,052	-2,795	-3,622	-1,644	775
25%	998	-1,760	-1,339	-223	1,551	3,250	5,367	4,509	2,960	-788	-2,882	-807	1,282
50%	1,548	-781	-365	2,262	5,090	5,897	9,606	8,023	4,384	1,547	-899	-244	2,183
75%	2,172	197	2,647	8,406	11,720	12,833	12,927	10,047	7,229	2,177	241	326	4,226
90%	3,011	1,043	8,954	15,955	20,893	18,765	18,028	13,112	10,541	3,296	1,443	1,150	6,286
100%	4,028	16,262	28,130	75,216	57,181	63,111	37,292	26,925	25,216	9,441	7,388	2,968	15,769
Mean	1,474	-479	2,234	5,919	8,658	9,026	10,368	8,225	5,726	974	-1,027	-177	3,053
65													
0%	-169	-1,768	-3,232	-1,929	-178	1,588	2,514	1,925	2,030	-795	-3,343	-2,105	1,020
10%	859	-903	-145	-880	1,787	3,343	4,309	3,197	2,953	1,156	-2,395	-648	1,526
25%	1,853	-299	651	749	2,955	4,631	6,065	4,998	4,148	1,633	-976	-120	1,941
50%	2,780	485	1,464	2,729	5,608	6,655	10,719	8,876	5,873	2,054	614	300	3,140
75%	3,505	1,605	4,509	8,952	12,034	13,436	13,620	11,719	8,869	2,838	1,105	1,186	5,024
90%	4,526	2,917	9,293	15,962	21,803	19,111	18,459	15,763	12,102	4,945	1,752	2,043	6,814
100%	7,400	19,584	30,650	75,254	60,766	64,468	38,296	28,781	25,670	10,001	3,699	5,488	16,955
Mean	2,735	1,018	3,664	6,389	9,472	9,823	11,037	9,213	7,023	2,503	81	549	3,814

Table H1a3-98. 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												
C	559	-1,600	-1,353	330	900	948	2,652	2,135	2,341	879	-761	423
D	-82	-2,192	-1,708	-37	2,166	3,497	4,941	3,741	1,784	-1,108	-2,431	-1,179
BN	76	-2,045	-1,172	2,331	5,978	5,736	9,258	6,285	2,034	-2,984	-3,653	-2,302
AN	30	-1,434	345	8,608	11,197	10,676	9,937	9,050	3,025	-2,241	-4,011	-991
W	-237	-1,874	6,700	14,303	17,078	16,576	15,943	11,663	7,812	265	-1,266	-343
All	19	-1,880	1,249	5,870	8,306	8,348	9,339	7,014	3,899	-868	-2,234	-859
45												
C	982	-1,512	-1,009	493	1,204	1,291	2,989	2,603	2,618	1,169	-243	413
D	442	-1,616	-1,252	-474	2,283	3,821	5,454	4,501	3,085	-47	-1,720	-1,016
BN	658	-1,587	-898	2,374	6,131	6,016	9,804	7,006	3,322	-1,732	-2,899	-1,600
AN	553	-961	924	8,725	11,386	10,758	10,729	9,641	3,986	-2,096	-3,968	-218
W	336	-1,020	6,621	14,346	17,033	16,538	16,326	12,094	8,444	594	-1,299	-402
All	552	-1,334	1,505	5,835	8,420	8,528	9,824	7,599	4,788	-228	-1,852	-614
55 w/WSAs												
C	1,041	-1,020	-859	775	833	1,117	2,512	1,978	2,573	1,603	450	125
D	1,125	-1,448	-954	-112	2,162	3,530	3,019	3,380	3,024	350	-1,896	-1,021
BN	616	-1,525	-679	2,293	6,034	5,856	7,074	4,877	3,107	-1,889	-3,042	-1,895
AN	1,006	-537	901	8,446	11,285	10,598	8,684	7,409	4,209	-1,420	-3,487	205
W	684	-933	6,676	14,275	17,042	16,665	15,406	11,428	8,851	793	-1,383	-483
All	866	-1,127	1,651	5,890	8,305	8,424	8,156	6,368	4,876	42	-1,774	-692
55												
C	1,663	-633	63	194	1,451	2,275	3,500	3,040	3,064	1,546	895	374
D	1,352	-587	-269	-49	2,707	4,324	6,075	5,173	3,877	1,392	-672	-452
BN	1,621	-1,042	-38	2,377	6,544	6,427	10,279	7,813	5,253	314	-1,810	-917
AN	1,543	-195	1,778	8,924	11,456	11,272	11,820	10,220	5,309	140	-2,606	1,197
W	1,343	-74	6,849	14,391	17,086	16,824	16,656	12,690	8,967	1,113	-1,184	-351
All	1,474	-479	2,234	5,919	8,658	9,026	10,368	8,225	5,726	974	-1,027	-177
65												
C	2,621	346	1,314	948	2,673	3,481	4,029	3,396	3,363	1,522	1,217	536
D	2,654	641	1,438	665	3,968	5,500	6,889	5,906	4,611	1,873	598	301
BN	2,428	555	1,557	2,912	7,449	7,309	11,075	8,653	6,499	2,712	337	-33
AN	3,027	1,429	3,721	9,078	11,514	11,649	12,432	11,070	7,734	3,148	-83	2,646
W	2,932	1,781	7,862	14,615	17,599	17,236	17,233	14,353	10,792	3,098	-1,003	268
All	2,735	1,018	3,664	6,389	9,472	9,823	11,037	9,213	7,023	2,503	81	549

H1a3.3.4 Old and Middle Rivers Net Flow

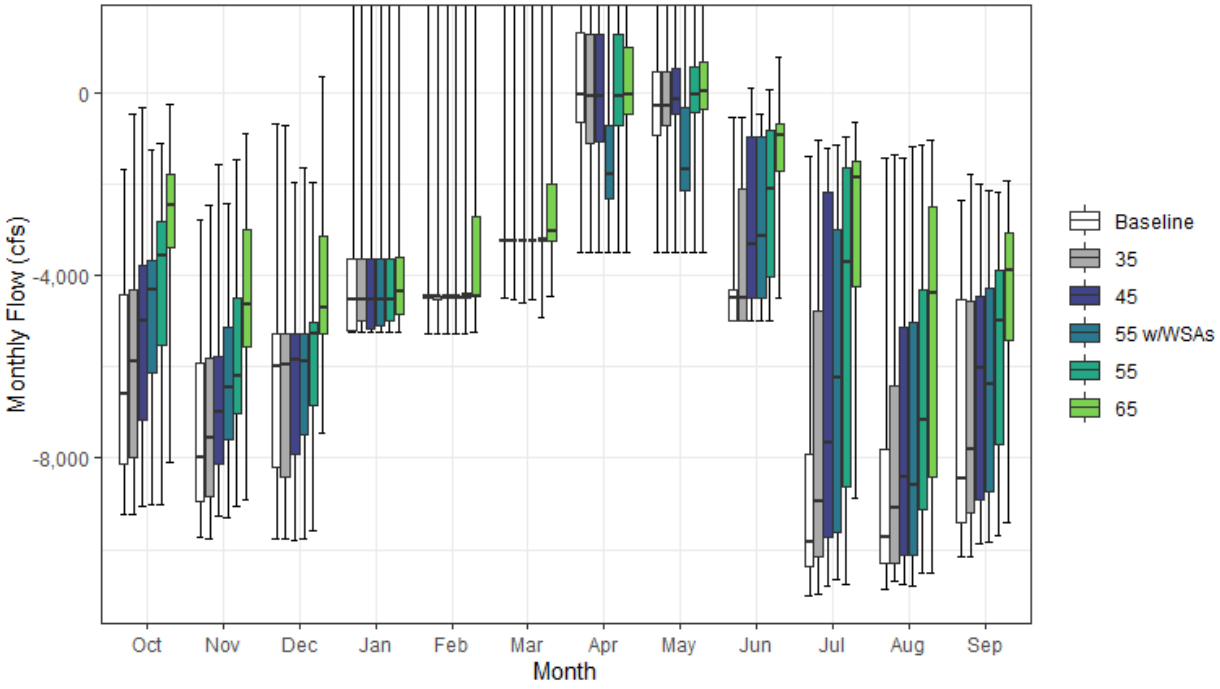

Figure H1a3-50. Old and Middle Rivers Net Flow Monthly Boxplot (cfs)

Table H1a3-99. 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													
0%	-9,246	-9,765	-9,764	-5,242	-5,268	-4,516	-3,500	-3,500	-5,000	-10,980	-10,680	-10,151	-4,629
10%	-8,525	-9,217	-9,515	-5,242	-5,000	-3,548	-3,125	-3,482	-5,000	-10,643	-10,435	-9,643	-4,281
25%	-7,992	-8,852	-8,399	-5,000	-4,526	-3,258	-1,118	-707	-5,000	-10,158	-10,294	-9,203	-4,180
50%	-5,872	-7,563	-5,961	-4,516	-4,464	-3,258	-77	-291	-4,500	-8,945	-9,092	-7,798	-3,615
75%	-4,314	-5,795	-5,277	-3,645	-4,447	-3,234	1,267	460	-2,096	-4,778	-6,431	-4,547	-2,963
90%	-2,981	-3,827	-4,983	-2,989	-3,677	-2,828	1,756	1,200	-900	-1,508	-4,882	-2,884	-2,265
100%	-473	-2,471	-727	19,185	6,098	16,821	7,507	3,490	-542	-1,047	-1,351	-1,795	-248
Mean	-5,824	-7,085	-6,621	-4,023	-4,099	-2,971	-124	-370	-3,648	-7,407	-8,287	-6,880	-3,468
45													
0%	-9,051	-9,282	-9,796	-5,242	-5,268	-4,588	-3,500	-3,500	-5,000	-10,788	-10,750	-9,874	-4,613
10%	-8,284	-8,822	-9,030	-5,242	-5,000	-3,500	-1,841	-2,368	-5,000	-10,540	-10,399	-9,632	-4,182
25%	-7,153	-8,130	-7,924	-5,172	-4,483	-3,258	-1,064	-470	-4,500	-9,750	-10,110	-8,915	-3,967
50%	-4,990	-6,980	-5,833	-4,516	-4,464	-3,258	-71	-130	-3,321	-7,650	-8,419	-6,029	-3,387
75%	-3,797	-5,777	-5,273	-3,645	-4,428	-3,230	1,267	526	-950	-2,161	-5,119	-4,460	-2,584
90%	-2,649	-3,116	-4,742	-3,109	-3,352	-2,520	1,757	1,194	-793	-1,429	-4,600	-2,833	-1,939
100%	-331	-1,573	-1,979	19,185	6,098	16,797	7,502	3,484	98	-1,220	-1,414	-1,997	-250
Mean	-5,291	-6,636	-6,412	-4,068	-4,035	-2,952	-35	-234	-3,015	-6,453	-7,690	-6,360	-3,216
55 w/WSAs													
0%	-9,006	-9,293	-9,774	-5,242	-5,268	-4,541	-3,500	-3,500	-5,000	-10,653	-10,811	-9,847	-4,484
10%	-8,136	-8,580	-9,028	-5,233	-5,000	-3,500	-2,840	-2,640	-5,000	-10,075	-10,413	-9,331	-4,229
25%	-6,134	-7,611	-7,489	-5,084	-4,483	-3,258	-2,335	-2,153	-4,499	-9,634	-10,117	-8,717	-3,917
50%	-4,307	-6,468	-5,877	-4,515	-4,464	-3,258	-1,793	-1,682	-3,124	-6,231	-8,585	-6,396	-3,278
75%	-3,661	-5,132	-5,263	-3,637	-4,440	-3,234	-708	-308	-955	-3,006	-5,022	-4,281	-2,826
90%	-2,470	-3,173	-4,270	-2,329	-3,872	-2,325	15	-21	-763	-1,447	-4,335	-3,234	-2,058
100%	-1,261	-2,437	-1,649	19,185	6,071	15,114	7,617	3,491	-471	-1,128	-1,164	-2,140	-346
Mean	-4,863	-6,288	-6,194	-3,949	-4,060	-2,933	-1,459	-1,326	-2,836	-6,168	-7,599	-6,337	-3,265
55													
0%	-9,005	-9,057	-9,587	-5,242	-5,268	-4,927	-3,500	-3,500	-5,000	-10,764	-10,510	-9,686	-4,175
10%	-7,968	-8,296	-7,984	-5,235	-4,981	-3,392	-1,878	-1,979	-4,535	-10,281	-10,130	-9,070	-3,954
25%	-5,539	-7,011	-6,859	-5,000	-4,483	-3,258	-717	-434	-4,029	-8,640	-9,131	-7,712	-3,577
50%	-3,562	-6,196	-5,290	-4,516	-4,464	-3,257	-77	-50	-2,094	-3,693	-7,160	-4,978	-2,648
75%	-2,811	-4,478	-5,021	-3,642	-4,374	-3,174	1,267	553	-806	-1,643	-4,302	-3,894	-2,167
90%	-2,162	-3,023	-3,557	-3,224	-2,534	-1,753	1,737	1,204	-551	-1,388	-2,522	-2,852	-1,647
100%	-1,106	-1,451	-1,980	19,185	6,098	16,788	7,502	3,481	82	-954	-1,144	-2,183	-251
Mean	-4,306	-5,801	-5,680	-4,051	-3,942	-2,735	16	-170	-2,356	-4,909	-6,606	-5,601	-2,788
65													
0%	-8,082	-8,909	-7,456	-5,242	-5,253	-4,470	-3,500	-3,500	-4,500	-8,893	-10,508	-9,403	-3,652
10%	-6,935	-6,442	-6,044	-5,215	-4,494	-3,258	-1,863	-777	-3,065	-7,698	-9,607	-8,413	-3,330
25%	-3,403	-5,549	-5,290	-4,864	-4,464	-3,258	-454	-345	-1,702	-4,228	-8,403	-5,426	-2,631
50%	-2,448	-4,643	-4,716	-4,351	-4,443	-3,038	-51	46	-931	-1,864	-4,375	-3,889	-2,020
75%	-1,790	-2,999	-3,126	-3,608	-2,726	-2,002	989	663	-674	-1,511	-2,509	-3,064	-1,629
90%	-1,249	-1,789	-2,360	-2,275	-1,524	-1,059	1,640	1,153	-272	-1,260	-1,885	-2,602	-1,317
100%	-244	-882	364	19,185	9,922	18,064	8,445	4,849	776	-656	-1,029	-1,938	600
Mean	-2,999	-4,359	-4,353	-3,730	-3,400	-2,312	87	119	-1,333	-3,103	-5,181	-4,522	-2,119

Table H1a3-100. 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												
C	-4,510	-5,445	-5,884	-3,721	-4,335	-3,653	-709	-633	-1,500	-2,394	-4,619	-2,810
D	-5,559	-6,784	-7,518	-4,578	-4,677	-3,266	-399	-500	-3,162	-5,808	-7,202	-5,265
BN	-5,921	-6,982	-6,899	-4,488	-4,587	-3,280	720	234	-4,374	-9,441	-9,404	-7,241
AN	-5,556	-7,225	-7,223	-4,173	-4,081	-3,218	35	839	-4,871	-9,868	-10,290	-9,427
W	-6,765	-8,190	-5,939	-3,423	-3,248	-2,097	-209	-1,002	-4,199	-8,981	-9,529	-8,988
All	-5,824	-7,085	-6,621	-4,023	-4,099	-2,971	-124	-370	-3,648	-7,407	-8,287	-6,880
45												
C	-4,026	-5,326	-5,541	-3,511	-4,186	-3,511	-653	-462	-1,185	-1,986	-3,930	-2,757
D	-5,053	-6,396	-7,120	-4,967	-4,713	-3,244	-402	-263	-1,787	-4,332	-6,096	-4,963
BN	-5,327	-6,494	-6,703	-4,449	-4,453	-3,280	720	344	-3,466	-7,622	-8,233	-6,027
AN	-5,071	-6,635	-6,866	-4,170	-3,902	-3,194	350	863	-4,551	-9,413	-10,155	-8,108
W	-6,207	-7,600	-5,991	-3,424	-3,247	-2,135	-70	-896	-3,992	-8,467	-9,535	-8,816
All	-5,291	-6,636	-6,412	-4,068	-4,035	-2,952	-35	-234	-3,015	-6,453	-7,690	-6,360
55 w/WSAs												
C	-3,887	-4,722	-5,266	-3,223	-4,411	-3,417	-664	-456	-939	-1,442	-3,120	-3,125
D	-4,207	-6,079	-6,772	-4,632	-4,689	-3,299	-2,347	-883	-1,530	-3,761	-6,380	-5,006
BN	-5,263	-6,324	-6,478	-4,460	-4,477	-3,278	-1,637	-1,525	-3,410	-7,803	-8,412	-6,492
AN	-4,431	-6,059	-6,906	-4,152	-3,900	-3,136	-1,602	-1,485	-4,517	-8,526	-9,780	-7,301
W	-5,783	-7,346	-5,798	-3,429	-3,212	-2,105	-1,061	-1,925	-3,770	-8,476	-9,496	-8,541
All	-4,863	-6,288	-6,194	-3,949	-4,060	-2,933	-1,459	-1,326	-2,836	-6,168	-7,599	-6,337
55												
C	-3,248	-4,359	-4,441	-3,804	-4,056	-2,802	-472	-350	-902	-1,473	-2,500	-2,808
D	-4,061	-5,401	-6,220	-4,626	-4,508	-3,134	-379	-157	-1,253	-2,332	-4,606	-4,270
BN	-4,207	-5,990	-5,964	-4,551	-4,267	-3,235	551	454	-1,847	-4,817	-6,647	-5,161
AN	-4,097	-5,835	-5,967	-4,106	-3,854	-2,966	779	659	-3,457	-6,400	-8,609	-5,533
W	-5,196	-6,729	-5,649	-3,421	-3,296	-1,998	-77	-811	-3,823	-8,093	-9,434	-8,373
All	-4,306	-5,801	-5,680	-4,051	-3,942	-2,735	16	-170	-2,356	-4,909	-6,606	-5,601
65												
C	-2,179	-3,379	-3,249	-3,310	-3,085	-1,880	-277	-331	-874	-1,588	-2,135	-2,659
D	-2,648	-4,161	-4,692	-4,082	-3,697	-2,457	-161	6	-827	-1,759	-3,073	-3,523
BN	-3,294	-4,417	-4,452	-4,234	-3,661	-2,837	559	516	-517	-1,615	-3,824	-4,194
AN	-2,513	-4,286	-4,066	-4,124	-4,035	-3,035	651	662	-1,407	-2,579	-5,562	-3,072
W	-3,702	-5,019	-4,746	-3,219	-2,931	-1,816	-61	-26	-2,436	-6,049	-9,059	-7,037
All	-2,999	-4,359	-4,353	-3,730	-3,400	-2,312	87	119	-1,333	-3,103	-5,181	-4,522

H1a3.3.5 Jones Pumping Plant (CVP)

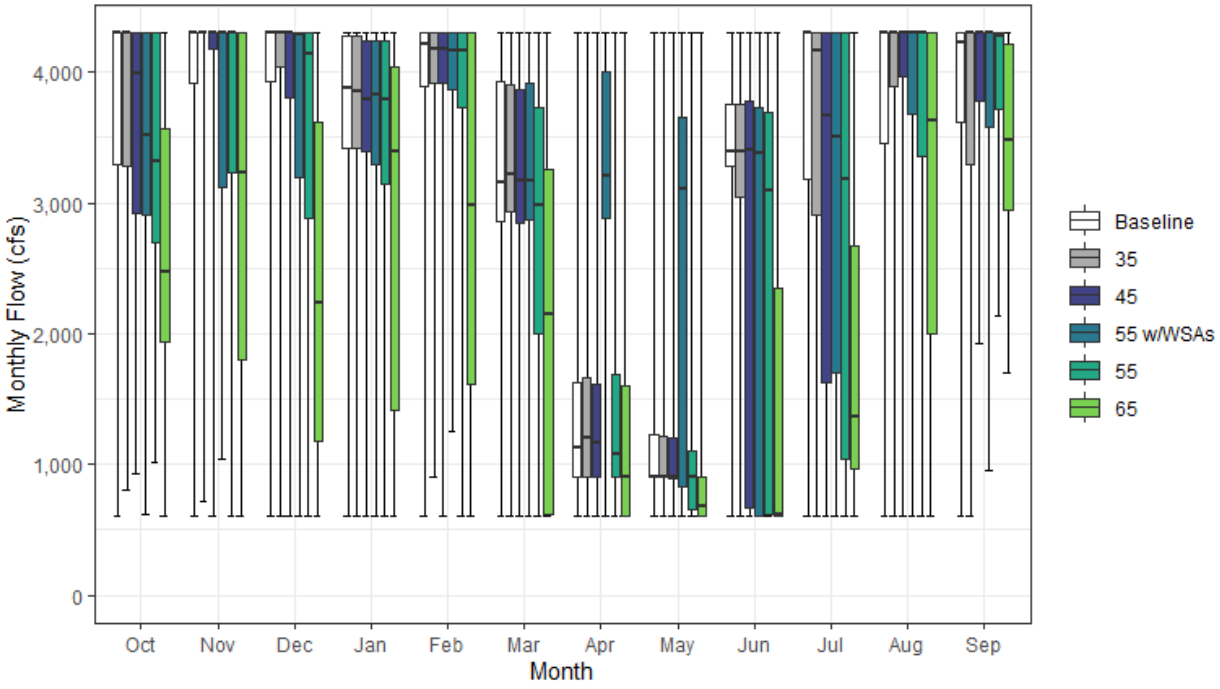

Figure H1a3-51. Jones Pumping Plant (CVP) Monthly Boxplot (cfs)

Table H1a3-101. 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													
0%	805	718	601	600	908	600	600	600	600	605	605	606	1,233
10%	2,398	2,520	3,185	2,656	3,633	2,445	858	745	610	902	3,142	2,397	1,819
25%	3,286	4,297	4,034	3,421	3,919	2,928	899	899	3,050	2,908	3,889	3,297	2,250
50%	4,298	4,298	4,298	3,853	4,180	3,218	1,200	900	3,399	4,169	4,300	4,299	2,437
75%	4,299	4,300	4,298	4,273	4,297	3,904	1,661	1,217	3,758	4,300	4,300	4,300	2,650
90%	4,300	4,300	4,300	4,298	4,298	4,297	3,339	4,107	4,298	4,300	4,300	4,300	2,915
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	3,728	3,892	3,994	3,625	3,992	3,246	1,618	1,516	2,985	3,354	3,947	3,749	2,392
45													
0%	927	600	600	600	600	600	600	600	600	600	601	1,922	1,133
10%	2,224	2,648	2,855	2,645	3,458	1,884	605	640	609	725	3,236	2,769	1,556
25%	2,924	4,183	3,803	3,392	3,910	2,848	899	897	670	1,623	3,960	3,777	2,120
50%	3,992	4,298	4,297	3,792	4,181	3,174	1,171	899	3,402	3,670	4,299	4,299	2,422
75%	4,299	4,298	4,298	4,241	4,297	3,860	1,617	1,198	3,774	4,300	4,300	4,300	2,637
90%	4,300	4,300	4,299	4,298	4,298	4,298	3,377	4,111	4,299	4,300	4,300	4,300	2,938
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	3,097
Mean	3,510	3,897	3,895	3,587	3,918	3,144	1,591	1,459	2,720	3,087	3,944	3,906	2,332
55 w/WSAs													
0%	618	1,042	600	600	1,255	600	600	600	600	600	603	955	906
10%	2,217	1,659	1,383	2,016	3,291	1,528	1,067	609	604	608	2,344	2,702	1,707
25%	2,909	3,120	3,197	3,298	3,864	2,864	2,884	834	610	1,702	3,682	3,584	2,132
50%	3,517	4,297	4,283	3,824	4,162	3,174	3,205	3,108	3,385	3,504	4,299	4,298	2,600
75%	4,298	4,298	4,298	4,241	4,297	3,921	4,001	3,648	3,726	4,299	4,300	4,300	2,811
90%	4,300	4,300	4,299	4,298	4,298	4,298	4,299	4,113	4,298	4,300	4,300	4,300	2,969
100%	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	3,101
Mean	3,439	3,634	3,583	3,510	3,914	3,136	3,099	2,582	2,593	2,937	3,745	3,811	2,411
55													
0%	1,017	600	600	600	600	600	600	600	600	600	606	2,139	763
10%	1,917	1,978	1,616	1,965	2,262	1,016	600	603	600	611	1,569	2,773	1,277
25%	2,691	3,237	2,882	3,142	3,727	1,996	900	659	617	1,039	3,354	3,712	1,846
50%	3,312	4,298	4,133	3,791	4,162	2,983	1,075	899	3,091	3,185	4,299	4,277	2,201
75%	4,298	4,298	4,298	4,241	4,297	3,726	1,687	1,098	3,697	4,299	4,300	4,300	2,598
90%	4,300	4,299	4,298	4,298	4,298	4,297	3,663	4,111	4,299	4,300	4,300	4,300	2,905
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	3,097
Mean	3,287	3,641	3,481	3,466	3,736	2,792	1,587	1,411	2,310	2,643	3,618	3,874	2,161
65													
0%	600	600	600	600	600	600	600	600	600	600	602	1,703	826
10%	1,445	1,250	777	606	834	600	600	600	600	618	1,240	2,592	1,035
25%	1,938	1,802	1,180	1,411	1,617	615	601	602	600	970	2,001	2,939	1,269
50%	2,470	3,228	2,233	3,392	2,984	2,143	907	684	620	1,364	3,634	3,475	1,647
75%	3,566	4,297	3,616	4,040	4,296	3,252	1,601	903	2,352	2,672	4,300	4,216	2,100
90%	4,297	4,298	4,297	4,297	4,298	4,297	4,232	2,718	3,604	4,298	4,300	4,300	2,539
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	2,971
Mean	2,671	2,939	2,358	2,858	2,854	2,147	1,404	1,138	1,456	1,906	3,120	3,471	1,707

Table H1a3-102. 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												
C	3,281	3,290	3,674	2,878	3,610	2,925	1,044	837	952	1,328	3,044	2,513
D	3,734	3,929	4,171	3,532	4,034	2,786	1,172	1,098	2,418	2,832	4,030	3,899
BN	3,943	4,034	3,964	3,701	3,906	3,329	1,058	1,010	3,311	3,761	3,878	3,592
AN	3,465	3,649	3,957	3,840	4,144	3,540	1,632	924	3,715	4,021	4,224	4,075
W	3,933	4,193	4,069	3,958	4,159	3,585	2,600	2,741	3,987	4,293	4,300	4,267
All	3,728	3,892	3,994	3,625	3,992	3,246	1,618	1,516	2,985	3,354	3,947	3,749
45												
C	3,021	3,344	3,444	2,640	3,347	2,430	928	709	780	952	2,794	2,703
D	3,527	3,871	3,992	3,598	4,023	2,744	1,173	925	1,697	2,297	4,031	4,118
BN	3,617	3,964	3,776	3,652	3,784	3,279	1,049	978	2,907	3,453	4,142	4,122
AN	3,203	3,647	3,777	3,800	4,144	3,553	1,575	974	3,723	3,890	4,113	3,870
W	3,814	4,268	4,186	3,958	4,139	3,567	2,600	2,749	3,987	4,253	4,300	4,268
All	3,510	3,897	3,895	3,587	3,918	3,144	1,591	1,459	2,720	3,087	3,944	3,906
55 w/WSAs												
C	3,198	2,625	2,783	2,394	3,636	2,301	1,052	711	608	716	2,174	3,172
D	3,218	3,727	3,637	3,510	3,962	2,821	3,163	1,500	1,334	2,498	3,761	4,090
BN	3,622	3,857	3,450	3,575	3,815	3,372	3,543	2,837	2,870	2,856	4,013	3,439
AN	2,984	3,382	3,671	3,846	4,144	3,546	3,568	3,391	3,686	3,553	4,049	3,759
W	3,797	4,065	4,021	3,929	3,997	3,497	3,673	3,889	3,961	4,250	4,278	4,203
All	3,439	3,634	3,583	3,510	3,914	3,136	3,099	2,582	2,593	2,937	3,745	3,811
55												
C	2,745	2,817	2,672	2,503	2,814	1,776	743	608	606	726	1,641	2,788
D	3,216	3,521	3,447	3,190	3,714	2,371	1,118	807	1,141	1,452	3,675	3,904
BN	3,270	3,822	3,334	3,579	3,614	2,560	1,129	869	1,844	2,518	3,914	4,174
AN	3,316	3,543	3,153	3,846	4,144	3,486	1,508	1,134	3,299	3,460	3,976	3,798
W	3,627	4,091	4,163	3,957	4,158	3,511	2,704	2,734	3,974	4,292	4,300	4,273
All	3,287	3,641	3,481	3,466	3,736	2,792	1,587	1,411	2,310	2,643	3,618	3,874
65												
C	2,497	2,749	1,876	2,032	1,788	1,152	609	618	606	917	1,466	2,580
D	2,449	2,855	2,164	2,581	2,267	1,343	752	615	696	1,243	2,537	3,525
BN	2,690	3,086	2,166	2,466	2,687	1,969	1,040	740	656	1,181	2,878	3,826
AN	2,536	3,028	1,946	3,803	3,926	2,941	1,323	1,139	1,785	2,217	3,860	2,830
W	2,968	2,972	3,043	3,372	3,530	3,062	2,569	2,050	2,841	3,254	4,287	3,937
All	2,671	2,939	2,358	2,858	2,854	2,147	1,404	1,138	1,456	1,906	3,120	3,471

H1a3.3.6 Banks Pumping Plant (SWP)

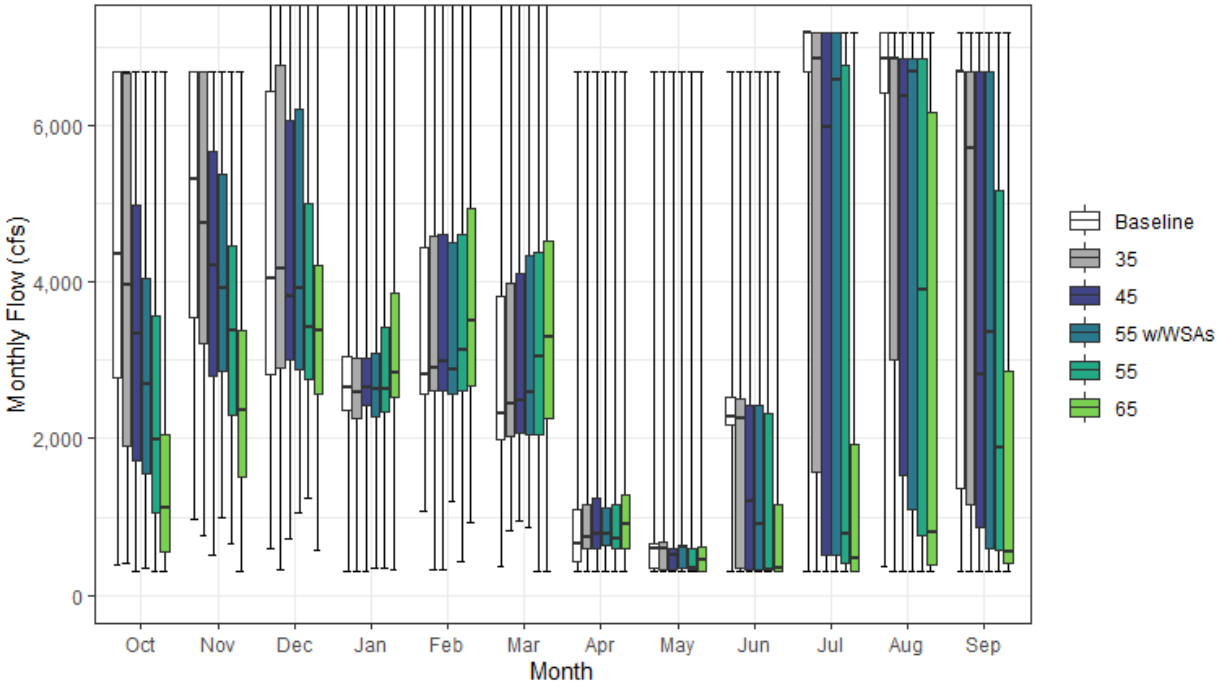

Figure H1a3-52. Banks Pumping Plant (SWP) Monthly Boxplot (cfs)

Table H1a3-103. 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													
0%	405	758	332	312	322	826	301	301	300	305	300	305	747
10%	830	2,058	2,295	1,686	2,419	1,887	334	306	326	309	1,033	474	1,223
25%	1,906	3,214	2,899	2,252	2,610	2,032	602	331	349	1,572	3,013	1,158	1,592
50%	3,959	4,758	4,167	2,586	2,912	2,438	737	601	2,258	6,855	6,855	5,717	2,626
75%	6,659	6,680	6,773	3,032	4,577	3,985	1,159	684	2,498	7,180	6,871	6,680	3,340
90%	6,680	6,680	7,068	4,045	6,704	6,969	6,091	4,102	5,180	7,180	7,180	6,680	3,880
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	5,065
Mean	3,887	4,664	4,521	2,841	3,732	3,249	1,784	1,274	2,253	4,987	5,126	4,292	2,574
45													
0%	306	516	731	311	317	943	300	300	300	300	307	301	699
10%	911	1,739	2,543	1,865	2,395	1,945	346	302	317	308	614	425	1,104
25%	1,713	2,802	3,014	2,421	2,609	2,061	602	329	330	503	1,523	866	1,416
50%	3,347	4,213	3,820	2,658	2,980	2,493	786	507	1,197	5,977	6,374	2,816	2,396
75%	4,982	5,656	6,063	3,026	4,604	4,101	1,233	602	2,416	7,180	6,855	6,680	3,172
90%	6,680	6,680	7,041	4,140	6,582	6,807	5,204	4,052	5,179	7,180	7,180	6,680	3,646
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	3,531	4,173	4,387	2,939	3,739	3,330	1,714	1,186	1,838	4,225	4,481	3,562	2,362
55 w/WSAs													
0%	345	990	1,045	338	1,201	872	302	307	300	304	300	307	782
10%	668	1,889	2,542	1,402	2,326	1,937	612	324	326	311	664	340	1,117
25%	1,552	2,857	2,872	2,280	2,564	2,047	641	339	333	509	1,087	590	1,430
50%	2,692	3,923	3,916	2,625	2,872	2,583	775	623	906	6,586	6,680	3,353	2,377
75%	4,041	5,368	6,196	3,082	4,492	4,335	1,109	632	2,419	7,180	6,855	6,680	3,080
90%	6,680	6,680	7,040	3,975	6,671	6,635	5,083	3,964	5,037	7,180	7,180	6,680	3,649
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,069
Mean	3,148	4,076	4,468	2,887	3,768	3,317	1,720	1,229	1,768	4,101	4,591	3,631	2,337
55													
0%	311	661	1,244	341	433	303	301	300	300	300	300	301	657
10%	569	1,357	2,429	2,022	2,360	1,901	381	301	303	304	352	321	984
25%	1,053	2,291	2,759	2,350	2,615	2,044	601	322	323	404	767	584	1,228
50%	1,989	3,375	3,421	2,641	3,121	3,038	712	348	336	792	3,900	1,892	1,791
75%	3,572	4,458	5,004	3,429	4,599	4,379	1,164	602	2,314	6,765	6,855	5,167	2,899
90%	6,680	6,560	7,007	4,141	6,582	6,062	5,048	3,974	4,750	7,180	6,860	6,680	3,410
100%	6,680	6,680	7,678	8,500	8,500	7,561	6,680	6,680	6,680	7,180	7,180	7,180	5,069
Mean	2,686	3,530	3,997	3,050	3,819	3,445	1,664	1,166	1,536	3,002	3,645	2,752	2,069
65													
0%	303	304	583	319	936	301	302	300	300	300	302	301	549
10%	368	774	1,921	2,184	2,001	1,639	492	301	300	302	307	309	892
25%	548	1,516	2,566	2,523	2,683	2,256	602	310	302	309	381	399	1,051
50%	1,119	2,362	3,388	2,843	3,496	3,294	900	444	340	470	801	549	1,335
75%	2,052	3,376	4,213	3,867	4,937	4,522	1,286	609	1,152	1,921	6,160	2,869	2,440
90%	5,623	5,427	6,455	4,951	7,844	6,804	5,170	3,838	3,972	6,992	6,855	6,680	3,307
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	5,059
Mean	1,842	2,672	3,708	3,338	4,114	3,626	1,768	1,106	1,286	1,785	2,616	1,980	1,797

Table H1a3-104. 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												
C	2,651	3,103	3,342	1,987	2,478	2,253	712	441	582	718	1,461	679
D	3,531	4,137	4,912	2,362	2,581	2,165	720	482	1,201	3,142	3,484	2,087
BN	3,796	4,397	4,484	2,406	3,607	2,472	680	515	1,919	6,280	6,153	4,651
AN	3,704	5,016	5,111	2,771	3,803	3,299	1,730	577	2,754	6,929	6,940	6,685
W	4,939	5,911	4,650	3,951	5,295	5,046	3,857	3,059	3,927	7,020	6,908	6,653
All	3,887	4,664	4,521	2,841	3,732	3,249	1,784	1,274	2,253	4,987	5,126	4,292
45												
C	2,388	2,911	3,205	2,006	2,588	2,593	767	382	446	638	962	438
D	3,187	3,796	4,646	2,718	2,631	2,183	711	404	435	2,086	2,285	1,528
BN	3,483	3,941	4,447	2,441	3,587	2,523	688	426	1,340	4,629	4,621	2,769
AN	3,450	4,348	4,896	2,803	3,605	3,259	1,459	505	2,399	6,573	6,905	5,461
W	4,457	5,200	4,587	3,968	5,315	5,104	3,706	2,941	3,702	6,509	6,908	6,462
All	3,531	4,173	4,387	2,939	3,739	3,330	1,714	1,186	1,838	4,225	4,481	3,562
55 w/WSAs												
C	2,068	2,977	3,554	1,924	2,545	2,619	663	367	326	311	728	359
D	2,583	3,623	4,625	2,445	2,667	2,166	772	488	519	1,308	2,862	1,612
BN	3,421	3,866	4,541	2,531	3,578	2,427	716	547	1,315	5,465	4,944	3,961
AN	2,991	4,013	5,081	2,771	3,604	3,203	1,507	627	2,399	6,003	6,563	4,687
W	4,029	5,154	4,550	3,996	5,415	5,142	3,701	2,905	3,488	6,547	6,908	6,226
All	3,148	4,076	4,468	2,887	3,768	3,317	1,720	1,229	1,768	4,101	4,591	3,631
55												
C	1,818	2,408	2,773	2,454	2,977	2,467	766	361	315	304	576	394
D	2,431	3,081	4,203	2,773	2,716	2,436	739	405	413	780	1,027	947
BN	2,607	3,526	4,085	2,635	3,559	3,191	786	407	651	2,534	3,134	1,755
AN	2,287	3,568	4,507	2,709	3,555	3,076	1,072	565	1,638	3,745	5,369	2,711
W	3,545	4,445	4,240	3,969	5,348	5,014	3,613	2,874	3,531	6,070	6,835	5,981
All	2,686	3,530	3,997	3,050	3,819	3,445	1,664	1,166	1,536	3,002	3,645	2,752
65												
C	915	1,427	2,289	2,419	2,951	2,079	686	330	301	324	461	499
D	1,590	2,372	3,851	2,810	3,277	2,720	882	428	397	374	520	506
BN	2,178	2,587	3,646	3,419	3,821	3,346	863	444	400	403	1,128	1,047
AN	1,299	2,450	3,738	2,820	3,982	3,697	1,397	530	935	840	2,187	978
W	2,524	3,699	4,388	4,372	5,585	5,266	3,715	2,667	3,164	4,851	6,417	4,842
All	1,842	2,672	3,708	3,338	4,114	3,626	1,768	1,106	1,286	1,785	2,616	1,980

H1a3.4 Interbasin Diversions

H1a3.4.1 Bowman-Spaulding Conduit

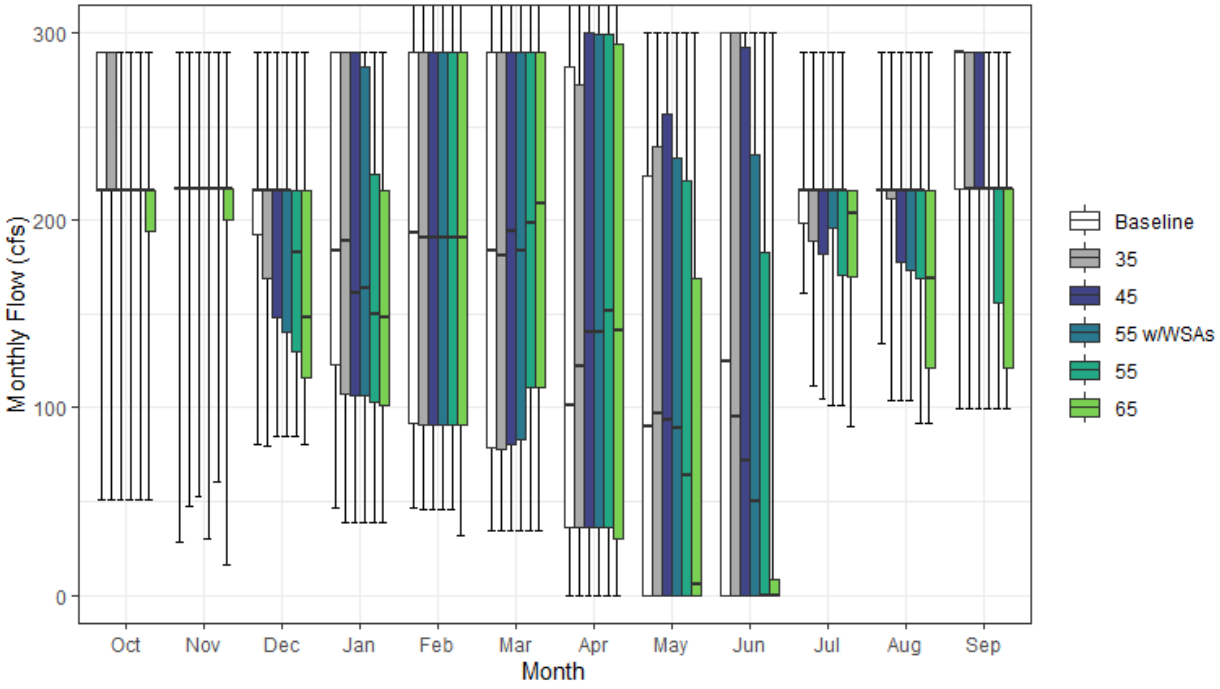

Figure H1a3-53. Bowman-Spaulding Conduit Monthly Boxplot (cfs)

Table H1a3-105. 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													
0%	51	47	80	39	45	34	0	0	0	111	104	100	67
10%	121	203	127	64	72	47	0	0	0	171	134	100	83
25%	216	217	169	107	91	78	36	0	0	189	211	217	99
50%	216	217	216	189	191	181	123	97	96	216	216	217	130
75%	290	217	216	290	290	290	273	240	300	216	216	290	176
90%	290	217	290	290	314	292	302	300	300	216	290	290	192
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	220	217	202	185	191	177	146	122	137	205	216	222	135
45													
0%	51	52	85	39	45	34	0	0	0	105	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	182	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	293	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	212	212	195	178	190	179	153	121	123	201	213	216	132
55 w/WSAs													
0%	51	30	85	39	45	34	0	0	0	101	104	100	67
10%	122	191	108	67	72	47	0	0	0	161	134	100	80
25%	216	217	140	107	91	83	36	0	0	196	173	217	96
50%	216	217	216	163	191	184	140	89	50	216	216	217	128
75%	216	217	216	282	290	290	299	233	235	216	216	217	164
90%	290	217	290	290	310	290	300	300	300	216	290	290	187
100%	290	290	290	290	325	325	325	300	300	290	290	290	208
Mean	212	212	192	177	189	179	153	116	116	201	207	211	131
55													
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	130	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	206	209	178	172	188	181	156	107	85	196	197	197	125
65													
0%	51	16	80	39	32	34	0	0	0	90	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 H1a3-106. 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												
C	195	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	214	200	201	205	226	196	196	190	191	191	235	253
W	231	229	233	261	294	287	286	245	261	216	261	272
All	220	217	202	185	191	177	146	122	137	205	216	222
45												
C	182	200	159	107	96	93	10	0	0	191	150	139
D	198	207	188	138	126	105	62	25	25	206	187	183
BN	231	215	179	152	155	154	123	90	105	201	209	230
AN	200	201	204	198	226	193	215	178	178	186	229	247
W	232	224	226	256	294	289	291	252	251	209	263	259
All	212	212	195	178	190	179	153	121	123	201	213	216
55 w/WSAs												
C	176	205	159	110	96	95	9	0	0	198	153	139
D	199	206	184	133	127	106	63	24	36	200	189	188
BN	237	217	174	153	155	153	123	86	104	201	208	230
AN	203	199	197	188	227	193	215	171	164	194	222	235
W	230	224	224	256	291	287	291	242	224	208	243	243
All	212	212	192	177	189	179	153	116	116	201	207	211
55												
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	223	213	163	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	208	234	239
All	206	209	178	172	188	181	156	107	85	196	197	197
65												
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

H1a3.4.2 Drum Canal

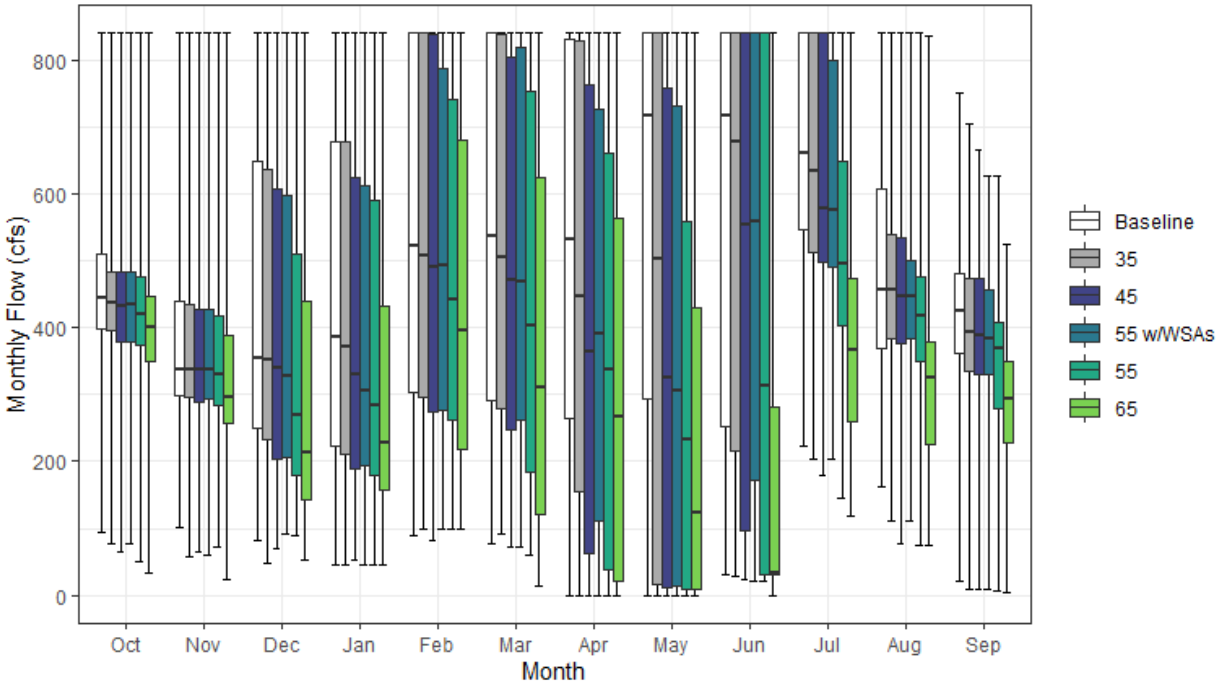

Figure H1a3-54. Drum Canal Monthly Boxplot (cfs)

Table H1a3-107. 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													
0%	78	58	48	45	98	91	0	0	29	203	112	9	86
10%	348	267	147	121	171	186	6	6	34	265	202	234	159
25%	395	295	232	210	295	279	154	15	215	512	383	335	228
50%	438	337	351	370	508	504	447	502	677	632	455	393	349
75%	482	435	637	678	840	837	827	840	840	840	538	474	465
90%	567	656	840	840	840	840	840	840	840	840	794	549	513
100%	840	840	840	840	840	840	840	840	840	840	840	704	565
Mean	443	395	427	436	519	512	452	462	549	624	483	385	343
45													
0%	64	64	69	54	82	72	0	0	23	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	98	497	376	330	205
50%	432	336	340	330	490	472	364	326	553	579	447	387	322
75%	482	426	606	624	838	804	763	756	840	840	535	472	458
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	432	385	410	420	509	488	405	382	506	589	466	377	324
55 w/WSAs													
0%	77	59	91	44	98	72	0	0	22	203	111	9	86
10%	340	258	142	106	165	146	0	7	32	272	213	236	154
25%	378	292	206	194	276	261	112	14	173	491	384	331	215
50%	435	337	326	305	493	467	391	307	559	575	446	383	326
75%	482	426	597	613	787	820	726	730	840	798	500	456	435
90%	532	603	840	840	840	840	840	840	840	840	610	511	497
100%	840	840	840	840	840	840	840	840	840	840	840	627	556
Mean	432	384	404	417	509	489	413	374	507	585	445	371	322
55													
0%	50	73	89	44	98	60	0	0	20	146	75	5	76
10%	257	242	125	102	153	120	0	1	31	216	164	141	124
25%	373	284	178	180	262	184	39	10	32	402	349	280	171
50%	421	329	268	283	442	402	336	233	312	496	417	369	281
75%	476	418	510	589	740	754	662	557	840	649	475	407	418
90%	564	549	840	840	840	840	840	840	840	840	572	474	483
100%	840	840	840	840	840	840	840	840	840	840	840	627	550
Mean	418	368	368	388	485	446	370	316	395	512	410	342	291
65													
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 H1a3-108. 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												
C	423	335	282	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	466	580	667	464	393
AN	430	387	451	564	613	645	613	730	670	689	530	439
W	488	485	638	698	776	764	762	792	821	801	669	492
All	443	395	427	436	519	512	452	462	549	624	483	385
45												
C	408	310	249	169	258	199	12	8	112	326	242	174
D	392	358	323	247	370	300	163	112	259	480	382	344
BN	431	336	294	340	399	441	363	302	553	605	436	395
AN	413	382	429	541	602	629	579	565	647	659	507	437
W	483	476	625	682	777	752	749	758	809	773	649	474
All	432	385	410	420	509	488	405	382	506	589	466	377
55 w/WSAs												
C	404	318	262	176	282	241	38	27	173	349	257	181
D	395	357	317	239	365	301	209	146	321	497	390	354
BN	436	336	291	339	397	417	360	320	552	616	436	395
AN	420	380	427	528	600	632	570	527	615	648	473	428
W	478	470	604	680	771	749	732	701	750	731	579	445
All	432	384	404	417	509	489	413	374	507	585	445	371
55												
C	395	289	208	154	219	151	8	8	50	269	210	141
D	372	342	288	209	326	237	113	64	129	398	351	317
BN	422	326	260	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	748	718	551	437
All	418	368	368	388	485	446	370	316	395	512	410	342
65												
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

H1a3.4.3 Hell Hole Tunnel

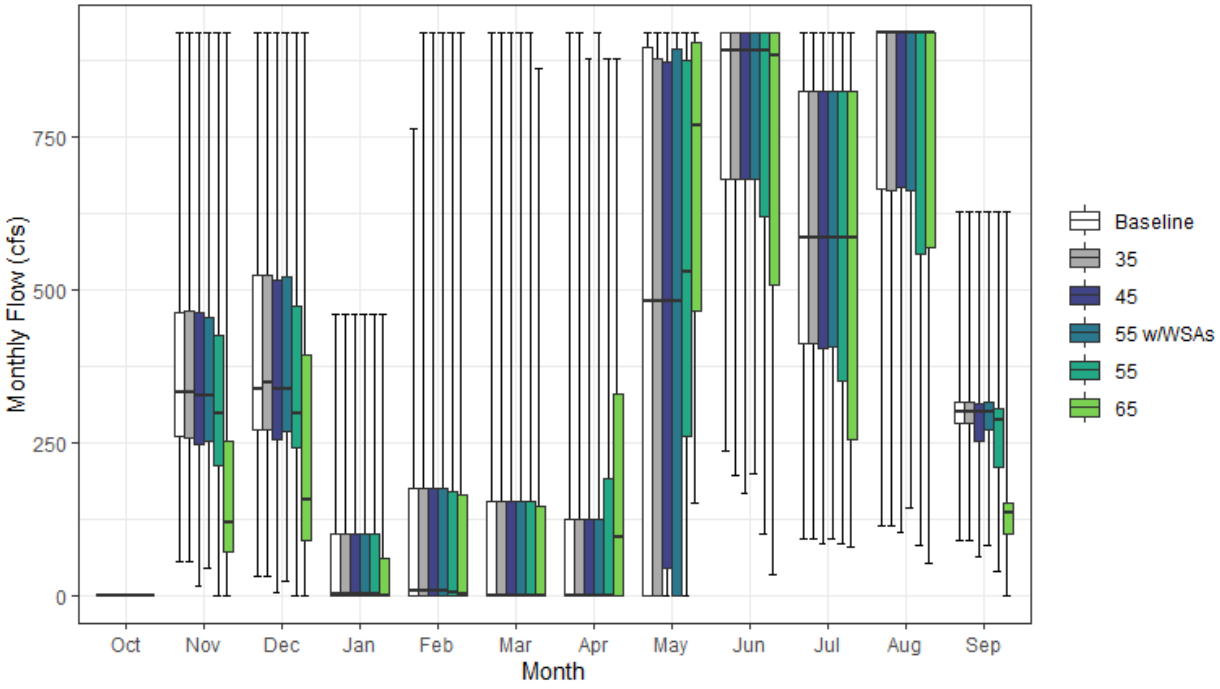

Figure H1a3-55. Hell Hole Tunnel Monthly Boxplot (cfs)

Table H1a3-109. 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													
0%	0	55	32	0	0	0	0	0	197	93	114	90	48
10%	0	175	212	0	0	0	0	0	401	290	281	176	116
25%	0	256	269	0	0	0	0	0	680	411	663	280	167
50%	0	331	349	1	6	0	0	481	890	584	920	300	245
75%	0	464	524	99	174	153	124	878	920	825	920	315	319
90%	0	676	882	245	297	388	486	920	920	884	920	396	375
100%	0	920	920	460	920	920	920	920	920	920	920	627	511
Mean	0	381	429	68	104	105	121	463	773	600	765	297	249
45													
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	114
25%	0	248	255	0	0	0	0	45	680	404	667	252	168
50%	0	327	337	1	6	0	0	480	890	584	920	299	244
75%	0	462	516	99	174	153	124	873	920	825	920	314	318
90%	0	654	903	245	297	388	486	920	920	884	920	393	376
100%	0	920	920	460	920	920	878	920	920	920	920	627	505
Mean	0	375	421	68	104	104	121	474	771	598	764	289	248
55 w/WSAs													
0%	0	44	24	0	0	0	0	0	198	93	142	81	47
10%	0	189	216	0	0	0	0	0	399	290	281	176	116
25%	0	253	268	0	0	0	0	0	680	406	663	270	167
50%	0	327	337	1	6	0	0	480	890	584	920	300	245
75%	0	454	520	99	174	153	124	894	920	825	920	315	318
90%	0	666	882	245	297	388	486	920	920	884	920	396	377
100%	0	920	920	460	920	920	920	920	920	920	920	627	507
Mean	0	379	428	68	104	105	121	469	772	599	764	295	249
55													
0%	0	0	0	0	0	0	0	0	101	83	81	39	53
10%	0	86	118	0	0	0	0	112	356	239	234	121	108
25%	0	213	242	0	0	0	0	261	621	351	558	209	164
50%	0	297	298	1	4	0	0	528	890	584	920	287	241
75%	0	425	474	99	169	153	190	876	920	825	920	304	313
90%	0	650	882	245	297	388	486	920	920	884	920	323	366
100%	0	920	920	460	920	920	878	920	920	920	920	627	501
Mean	0	341	389	66	101	104	132	540	754	582	744	252	243
65													
0%	0	0	0	0	0	0	0	151	33	78	54	0	61
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	569	99	156
50%	0	119	157	0	1	0	95	768	882	584	920	135	215
75%	0	252	394	60	165	146	330	905	920	825	920	150	289
90%	0	552	806	234	294	388	498	920	920	884	920	167	339
100%	0	920	920	460	920	862	878	920	920	920	920	627	489
Mean	0	215	278	57	95	103	190	678	713	539	723	128	226

Table H1a3-110. 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												
C	0	284	309	2	0	0	0	15	469	287	336	265
D	0	377	325	27	24	7	15	185	702	466	689	301
BN	0	366	368	48	67	34	52	440	823	618	872	312
AN	0	356	420	72	167	91	112	709	880	672	920	261
W	0	456	610	144	217	282	311	824	912	824	920	316
All	0	381	429	68	104	105	121	463	773	600	765	297
45												
C	0	274	299	2	0	0	0	63	459	279	337	253
D	0	369	312	27	24	7	15	188	699	464	686	294
BN	0	363	363	48	67	34	52	446	822	617	868	309
AN	0	345	408	72	167	91	112	709	882	672	920	251
W	0	451	608	144	217	280	310	826	912	824	920	308
All	0	375	421	68	104	104	121	474	771	598	764	289
55 w/WSAs												
C	0	280	307	2	0	0	0	22	467	285	336	262
D	0	375	322	27	24	7	15	181	701	466	689	300
BN	0	361	365	48	67	34	52	446	821	617	867	311
AN	0	362	419	72	167	91	112	706	882	672	920	259
W	0	453	613	144	217	282	311	838	911	824	920	314
All	0	379	428	68	104	105	121	469	772	599	764	295
55												
C	0	213	237	2	0	0	52	244	411	235	305	194
D	0	331	278	27	24	7	27	346	667	429	628	248
BN	0	340	348	46	65	34	60	460	814	610	861	294
AN	0	325	365	72	154	91	112	692	878	672	920	223
W	0	425	588	138	211	279	306	831	911	824	920	271
All	0	341	389	66	101	104	132	540	754	582	744	252
65												
C	0	134	147	2	3	6	193	513	312	161	225	101
D	0	199	167	21	22	7	140	620	591	335	600	125
BN	0	186	216	46	62	34	119	592	783	571	847	160
AN	0	213	241	62	135	90	121	707	877	662	920	112
W	0	288	483	118	202	273	297	851	906	823	920	132
All	0	215	278	57	95	103	190	678	713	539	723	128

H1a3.4.4 Jenkinson Lake Camino Conduit

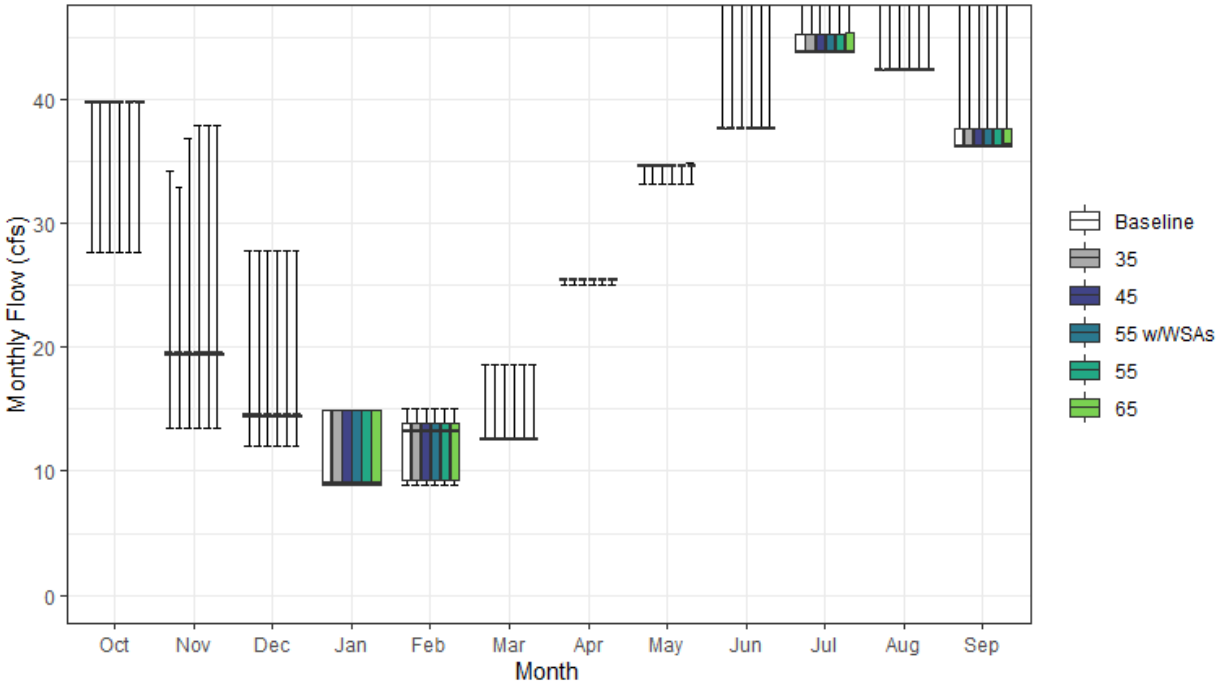

Figure H1a3-56. Jenkinson Lake Camino Conduit Monthly Boxplot (cfs)

Table H1a3-111. 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													
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	33	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													
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	37	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													
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													
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													
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 H1a3-112. 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												
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												
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												
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												
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												
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

H1a3.4.5 Milton-Bowman Tunnel

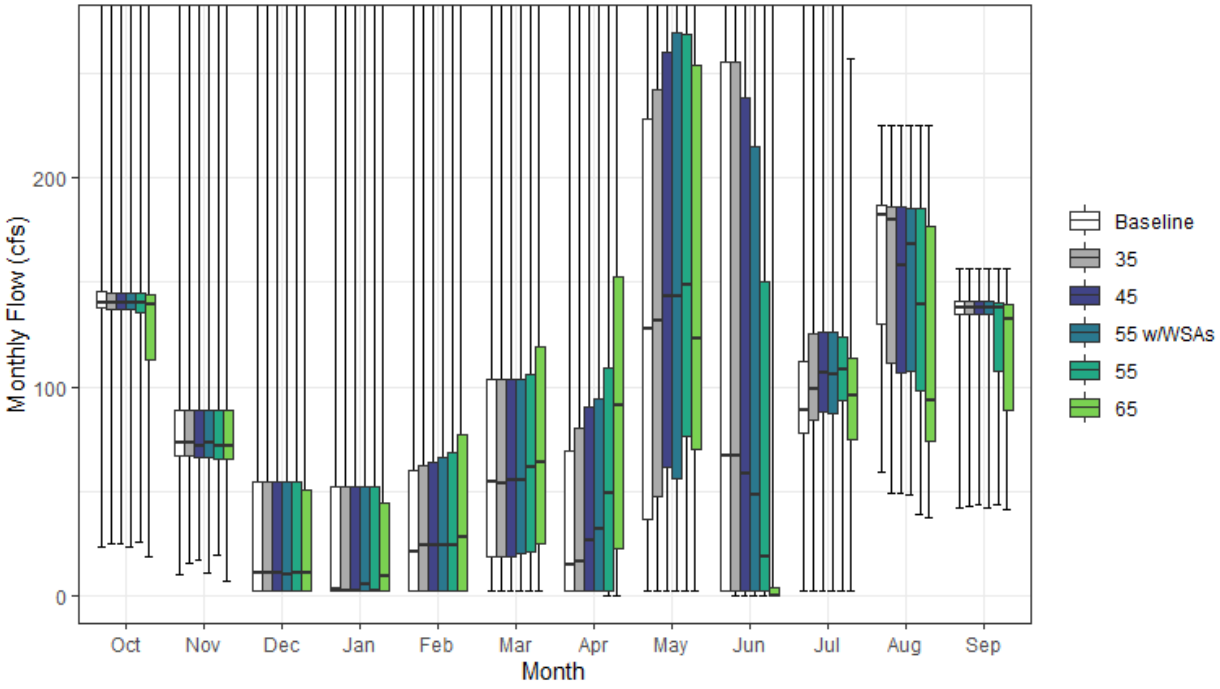

Figure H1a3-57. Milton-Bowman Tunnel Monthly Boxplot (cfs)

Table H1a3-113. 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													
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													
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	158	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													
0%	23	11	2	2	2	2	2	2	0	2	48	42	23
10%	88	62	2	2	2	2	2	13	2	78	78	77	31
25%	137	66	2	2	2	20	2	56	2	88	108	135	43
50%	140	73	10	5	24	55	31	144	48	106	168	138	67
75%	145	88	54	52	66	104	94	270	215	126	186	141	94
90%	155	127	144	125	105	140	165	379	308	152	191	147	116
100%	369	425	425	425	425	425	419	425	425	312	225	156	202
Mean	137	91	47	45	52	71	60	165	115	114	147	126	71
55													
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													
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 H1a3-114. 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												
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	101	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												
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												
C	126	69	10	5	14	23	7	32	7	87	86	89
D	127	78	18	9	14	38	37	83	32	99	126	119
BN	133	75	13	10	24	65	56	156	98	105	155	135
AN	127	105	57	58	48	88	77	222	134	109	168	141
W	155	116	106	109	117	119	101	281	236	146	182	140
All	137	91	47	45	52	71	60	165	115	114	147	126
55												
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	170	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												
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

H1a3.4.6 Toadtown Canal

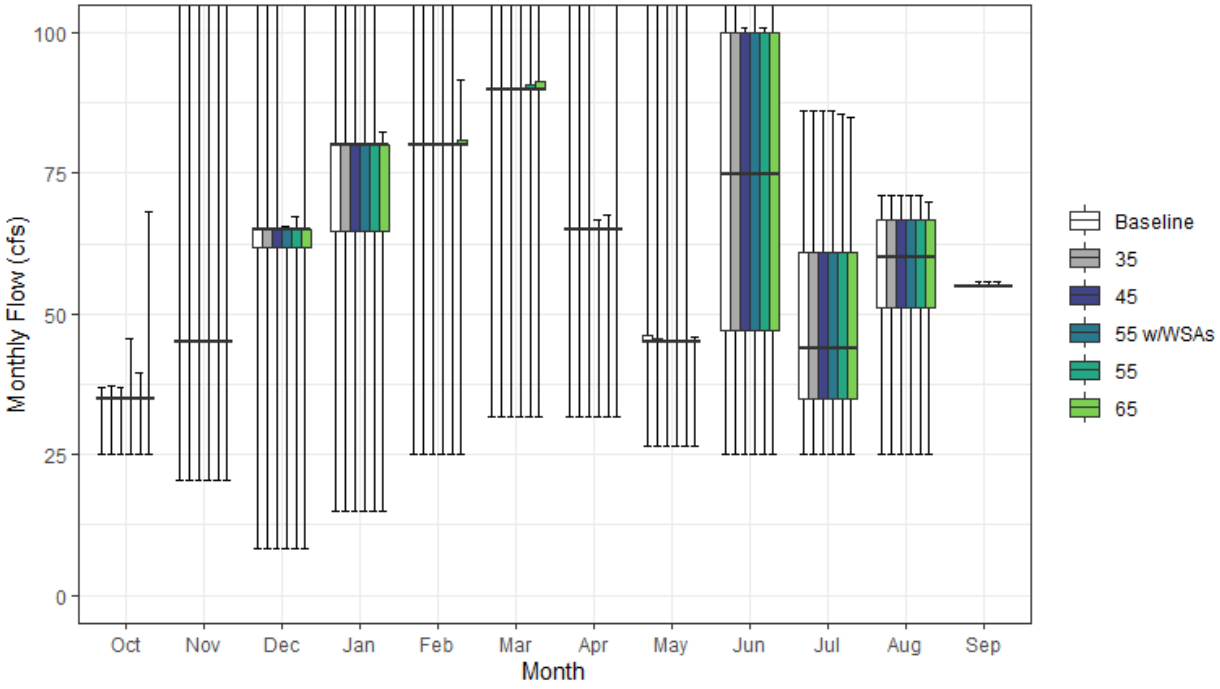

Figure H1a3-58. Toadtown Canal Monthly Boxplot (cfs)

Table H1a3-115. 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													
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	47
90%	35	45	65	80	81	91	67	52	100	84	70	55	49
100%	37	109	113	117	120	127	119	112	113	86	71	55	53
Mean	35	44	59	70	78	90	65	49	72	50	58	55	44
45													
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	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	53
Mean	35	44	58	70	78	90	65	46	72	50	58	55	43
55 w/WSAs													
0%	25	21	8	15	25	32	32	27	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	80	90	65	45	100	61	67	55	47
90%	35	45	65	80	81	91	65	45	100	84	70	55	49
100%	45	109	66	117	120	127	67	119	118	86	71	56	54
Mean	35	46	58	70	78	90	64	45	72	50	58	55	43
55													
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	45	65	80	82	92	65	45	100	84	70	55	49
100%	40	109	67	117	117	127	68	119	101	86	71	56	54
Mean	35	46	58	70	78	90	64	45	72	49	58	55	43
65													
0%	25	21	8	15	25	32	32	26	25	25	25	55	26
10%	35	33	33	31	77	90	65	45	35	28	45	55	36
25%	35	45	62	65	80	90	65	45	47	35	51	55	41
50%	35	45	65	80	80	90	65	45	75	44	60	55	44
75%	35	45	65	80	81	91	65	45	100	61	67	55	47
90%	35	62	65	80	84	93	65	45	100	84	70	55	49
100%	68	109	113	82	92	127	119	46	119	85	70	55	55
Mean	35	48	58	69	78	90	65	44	72	49	58	55	43

Table H1a3-116. 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												
C	35	39	44	51	69	80	60	42	42	31	43	55
D	34	45	58	62	76	90	65	52	55	37	54	55
BN	35	42	54	73	78	90	65	57	71	43	58	55
AN	34	43	63	76	80	90	65	46	81	50	61	55
W	35	47	68	82	84	94	69	46	97	72	67	55
All	35	44	59	70	78	90	65	49	72	50	58	55
45												
C	34	40	44	51	69	80	60	41	42	31	43	55
D	35	46	58	62	76	90	65	46	55	37	54	55
BN	35	42	54	73	78	90	65	46	70	43	58	55
AN	34	43	63	75	80	90	65	45	81	50	61	55
W	35	47	66	83	84	95	67	48	97	72	67	55
All	35	44	58	70	78	90	65	46	72	50	58	55
55 w/WSAs												
C	35	39	44	51	69	80	60	42	42	31	43	55
D	35	52	58	62	76	90	65	45	55	37	54	55
BN	35	43	54	73	77	90	65	45	70	43	58	55
AN	34	50	63	75	80	90	65	45	81	50	61	55
W	35	47	65	83	83	94	65	48	97	72	67	55
All	35	46	58	70	78	90	64	45	72	50	58	55
55												
C	34	39	44	51	69	80	60	41	42	31	43	55
D	34	52	58	62	77	90	65	45	55	37	54	55
BN	35	42	54	73	78	90	65	46	70	43	58	55
AN	34	50	63	75	80	90	65	45	81	50	61	55
W	35	49	65	82	81	96	65	48	97	72	67	55
All	35	46	58	70	78	90	64	45	72	49	58	55
65												
C	34	40	44	51	70	81	60	41	42	31	43	55
D	34	49	57	62	78	90	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	68	79	80	92	67	45	99	72	67	55
All	35	48	58	69	78	90	65	44	72	49	58	55

H1a3.4.7 Slate Creek Tunnel

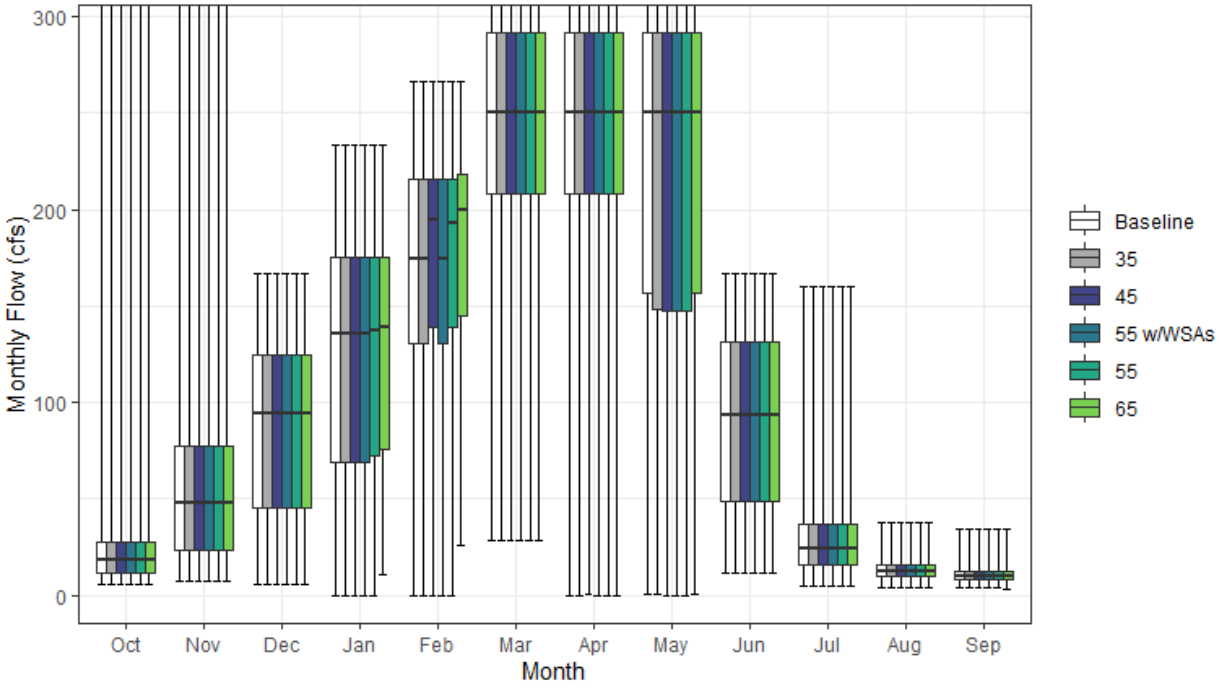

Figure H1a3-59. Slate Creek Tunnel Monthly Boxplot (cfs)

Table H1a3-117. 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													
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	125	168	236	237	210	91	32	13	11	79
45													
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	195	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	20	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	134
Mean	27	78	88	125	170	235	237	210	91	32	13	11	79
55 w/WSAs													
0%	5	8	6	0	0	29	0	0	12	5	4	4	13
10%	8	15	28	43	71	139	148	67	27	13	8	7	50
25%	11	24	46	69	131	208	208	148	48	16	10	8	65
50%	19	48	94	136	175	250	250	250	93	24	12	10	77
75%	28	77	125	175	216	292	292	292	131	37	15	13	95
90%	44	184	146	204	233	292	292	292	146	57	19	14	108
100%	429	470	167	233	267	333	333	333	167	160	38	34	127
Mean	26	78	88	125	168	236	233	210	91	32	13	11	79
55													
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	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	19	14	108
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	127	170	236	234	210	91	32	13	11	79
65													
0%	5	8	6	11	26	29	0	0	12	5	4	3	13
10%	8	15	28	46	75	139	148	81	27	13	8	6	50
25%	11	24	46	76	145	208	208	156	49	16	10	8	68
50%	19	48	94	139	200	250	250	250	93	24	12	10	78
75%	28	77	125	175	218	292	292	292	132	37	15	13	97
90%	44	184	146	204	233	292	292	292	146	57	20	14	110
100%	437	470	167	233	267	333	333	333	167	160	38	34	127
Mean	27	78	88	130	172	237	234	216	91	32	13	10	80

Table H1a3-118. 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												
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	241	130	56	18	14
All	27	78	88	125	168	236	237	210	91	32	13	11
45												
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												
C	22	29	45	61	101	157	164	115	44	14	8	7
D	19	69	81	88	152	212	232	187	63	18	10	9
BN	19	49	68	130	167	235	259	226	93	26	12	9
AN	26	92	90	154	200	284	288	273	100	29	14	12
W	39	123	128	173	203	276	234	241	130	56	18	14
All	26	78	88	125	168	236	233	210	91	32	13	11
55												
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	180	210	276	237	241	130	56	18	14
All	27	78	88	127	170	236	234	210	91	32	13	11
65												
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	187	218	279	234	263	130	56	18	14
All	27	78	88	130	172	237	234	216	91	32	13	10

H1a3.4.8 South Canal

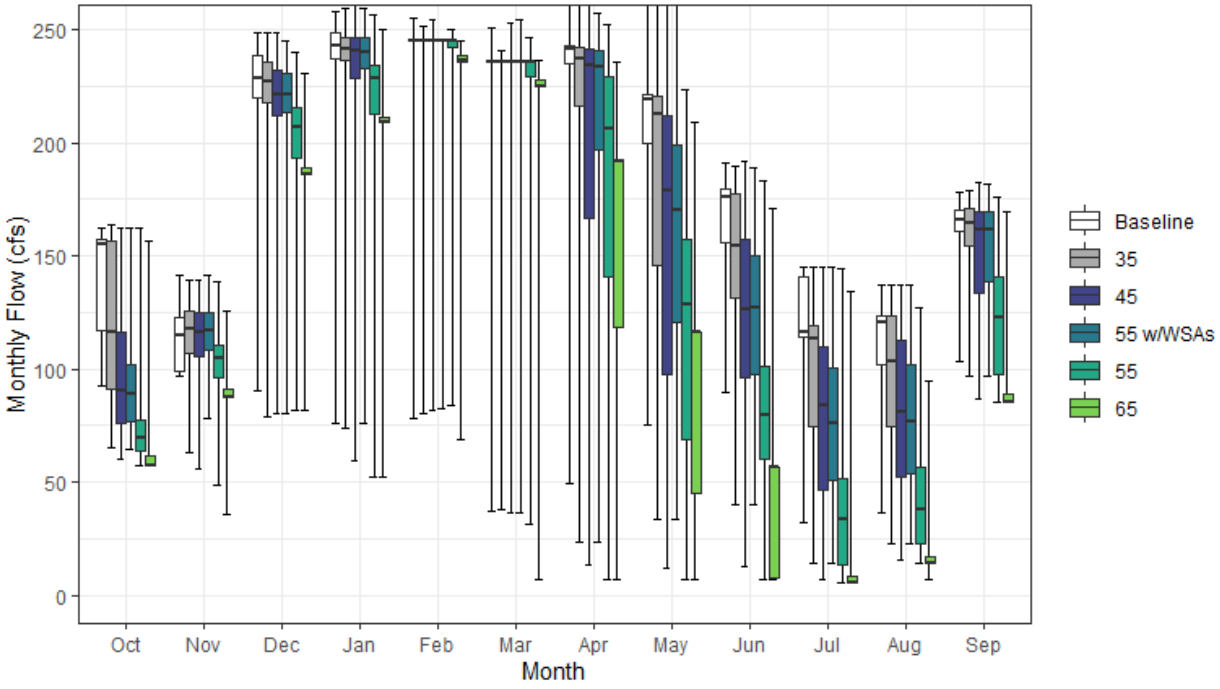

Figure H1a3-60. South Canal Monthly Boxplot (cfs)

Table H1a3-119. 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													
0%	65	63	79	74	80	38	24	34	40	14	23	97	44
10%	77	97	212	210	245	236	79	95	97	52	58	139	104
25%	91	107	218	236	245	236	216	146	131	75	75	154	120
50%	116	118	227	242	245	236	237	212	155	114	103	165	132
75%	157	126	236	247	245	236	242	221	178	119	123	171	135
90%	160	130	245	251	245	236	245	223	181	142	125	175	137
100%	163	139	249	260	251	241	269	277	189	145	137	179	139
Mean	121	116	223	233	240	229	210	185	148	103	99	160	124
45													
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	98	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													
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													
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													
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 H1a3-120. 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												
C	114	120	213	209	216	199	109	99	100	54	58	136
D	115	117	225	232	244	232	203	156	134	86	88	161
BN	125	117	227	238	242	236	231	205	156	114	106	167
AN	117	109	226	240	245	236	241	217	168	131	111	164
W	129	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												
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												
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												
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												
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

H1a3.4.9 South Yuba Canal

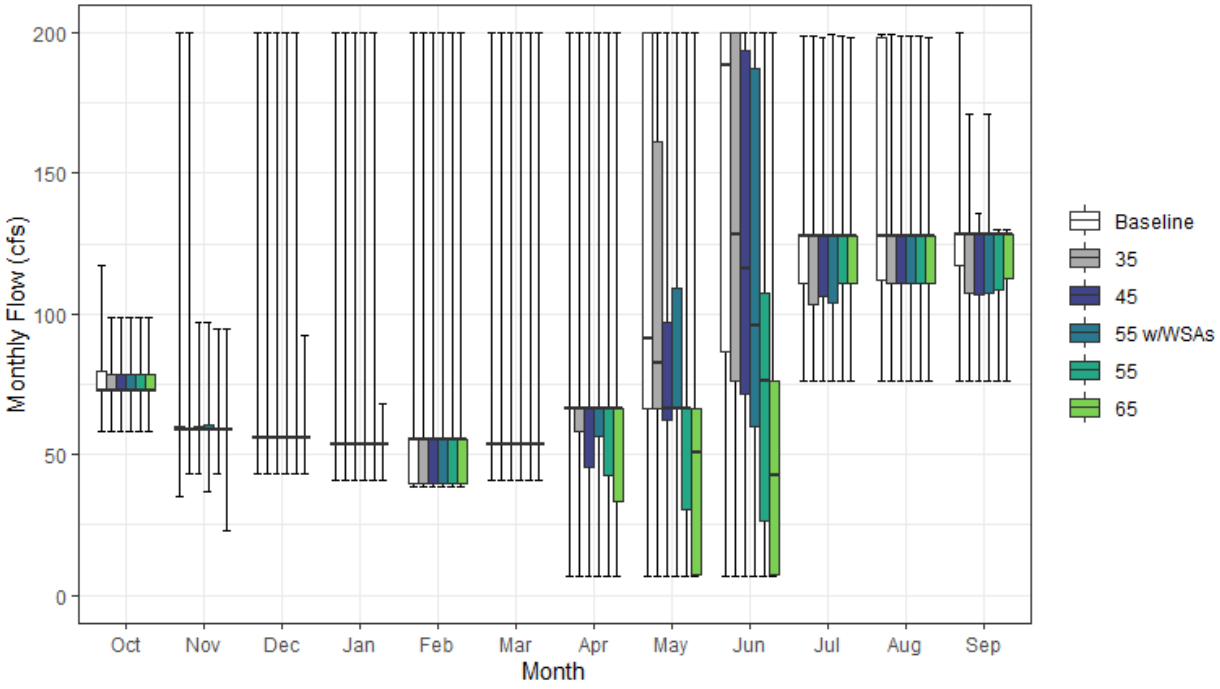

Figure H1a3-61. South Yuba Canal Monthly Boxplot (cfs)

Table H1a3-121. 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													
0%	58	43	43	41	39	41	7	7	7	76	76	76	46
10%	73	59	43	41	40	41	7	41	23	88	76	76	52
25%	73	59	56	54	40	54	58	66	76	103	111	107	56
50%	73	59	56	54	55	54	66	82	128	128	128	128	62
75%	78	60	56	54	55	54	66	161	200	128	128	128	69
90%	87	74	86	66	63	55	110	200	200	157	198	128	77
100%	99	200	200	200	200	200	200	200	200	199	199	171	105
Mean	76	63	67	59	59	60	68	105	129	123	130	118	64
45													
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	58	55	81	200	200	128	143	128	72
100%	99	97	200	200	200	200	200	200	200	199	199	136	98
Mean	76	62	64	57	59	60	65	84	114	120	122	117	60
55 w/WSAs													
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													
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	108	50
50%	73	59	56	54	55	54	66	66	76	128	128	128	54
75%	79	60	56	54	55	54	66	67	107	128	128	128	59
90%	87	73	77	66	55	54	66	110	200	128	128	128	66
100%	99	94	200	200	200	200	200	200	200	199	199	130	96
Mean	76	61	60	56	59	59	61	64	80	119	120	118	56
65													
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 H1a3-122. 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												
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	98	146	104	132	110
W	76	59	79	71	84	83	103	143	168	112	110	108
All	76	63	67	59	59	60	68	105	129	123	130	118
45												
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	163	110	111	109
All	76	62	64	57	59	60	65	84	114	120	122	117
55 w/WSAs												
C	75	61	60	61	48	49	35	95	94	142	137	120
D	75	64	58	54	46	49	39	70	76	123	131	124
BN	79	64	62	49	50	52	65	59	103	127	131	127
AN	74	60	69	51	51	53	66	69	100	106	128	110
W	76	60	70	66	84	82	98	107	143	107	114	111
All	76	62	64	57	59	60	64	83	107	120	126	118
55												
C	75	61	60	60	48	49	21	53	55	123	117	114
D	75	64	58	54	46	49	38	31	46	128	124	124
BN	79	64	62	49	50	52	64	52	66	128	125	128
AN	74	59	69	51	51	53	66	63	81	106	122	110
W	76	59	56	61	82	80	94	101	128	108	113	112
All	76	61	60	56	59	59	61	64	80	119	120	118
65												
C	75	61	60	60	51	49	17	41	38	121	116	115
D	75	64	58	54	46	49	38	21	41	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

H1a3.4.10 Chalk Bluff Canal

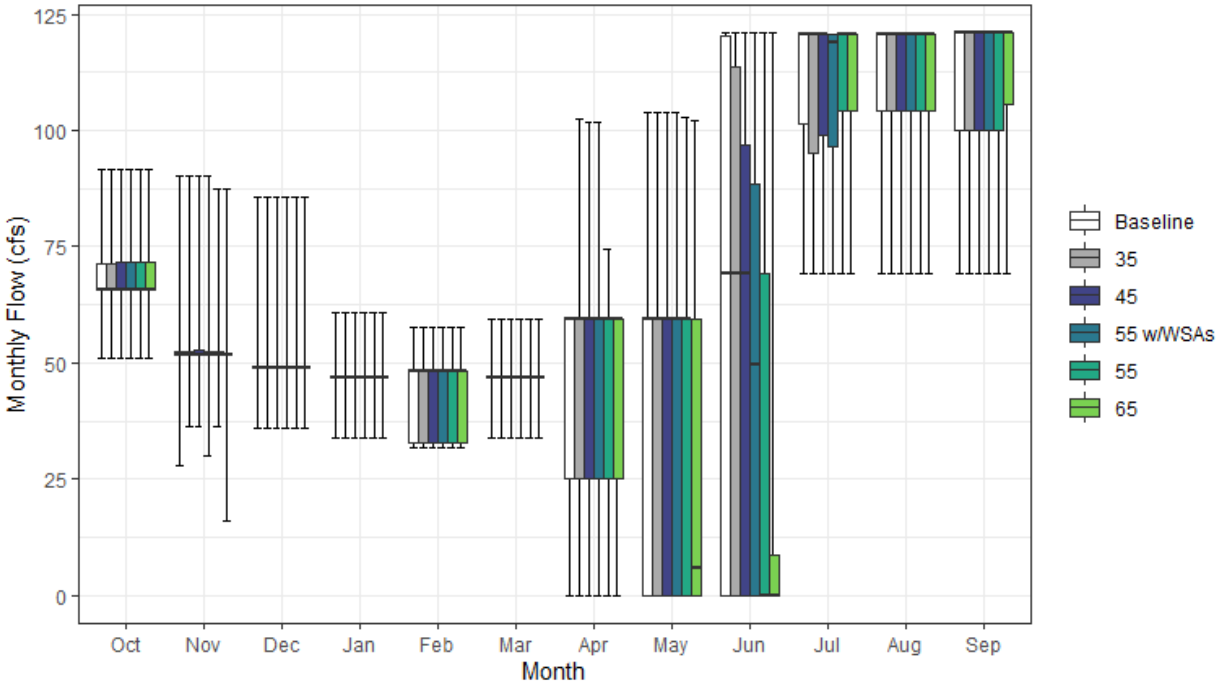

Figure H1a3-62. Chalk Bluff Canal Monthly Boxplot (cfs)

Table H1a3-123. 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													
0%	51	36	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	81	69	69	38
25%	66	52	49	47	33	47	25	0	0	95	104	100	42
50%	66	52	49	47	48	47	59	59	69	121	121	121	47
75%	71	52	49	47	48	47	59	59	114	121	121	121	53
90%	80	66	66	59	48	47	59	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													
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	53	107	108	109	46
55 w/WSAs													
0%	51	30	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	69	69	69	37
25%	66	52	49	47	33	47	25	0	0	97	104	100	41
50%	66	52	49	47	48	47	59	59	50	119	121	121	45
75%	72	52	49	47	48	47	59	59	89	121	121	121	52
90%	80	67	66	59	48	47	59	59	121	121	121	121	54
100%	92	90	85	61	58	59	102	104	121	121	121	121	60
Mean	69	55	51	46	43	44	44	37	49	106	109	110	46
55													
0%	51	36	36	34	32	34	0	0	0	69	69	69	34
10%	66	52	36	34	33	34	0	0	0	69	69	69	37
25%	66	52	49	47	33	47	25	0	0	104	104	100	41
50%	66	52	49	47	48	47	59	59	0	121	121	121	45
75%	72	52	49	47	48	47	59	59	69	121	121	121	50
90%	80	66	66	59	48	47	59	59	97	121	121	121	53
100%	92	87	85	61	58	59	75	103	121	121	121	121	56
Mean	69	54	51	46	43	44	44	34	35	108	109	111	45
65													
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 H1a3-124. 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												
C	68	54	53	53	40	41	10	0	1	108	109	106
D	68	57	51	47	39	42	31	15	30	113	117	117
BN	72	56	55	42	43	45	54	52	73	111	116	120
AN	67	54	50	44	44	46	59	63	81	97	103	103
W	69	52	48	46	47	47	61	62	95	105	96	101
All	69	55	51	46	43	44	45	40	60	108	108	109
45												
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	92	103	97	102
All	69	55	51	46	43	44	45	37	53	107	108	109
55 w/WSAs												
C	68	54	53	53	40	41	9	0	0	108	109	106
D	68	57	51	47	39	42	31	14	24	113	117	117
BN	72	57	55	42	43	45	54	42	65	112	117	120
AN	67	53	50	44	44	46	59	58	59	99	104	103
W	69	52	48	46	47	47	61	61	77	100	100	104
All	69	55	51	46	43	44	44	37	49	106	109	110
55												
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	101	99	105
All	69	54	51	46	43	44	44	34	35	108	109	111
65												
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

H1a3.4.11 Clear Creek Tunnel

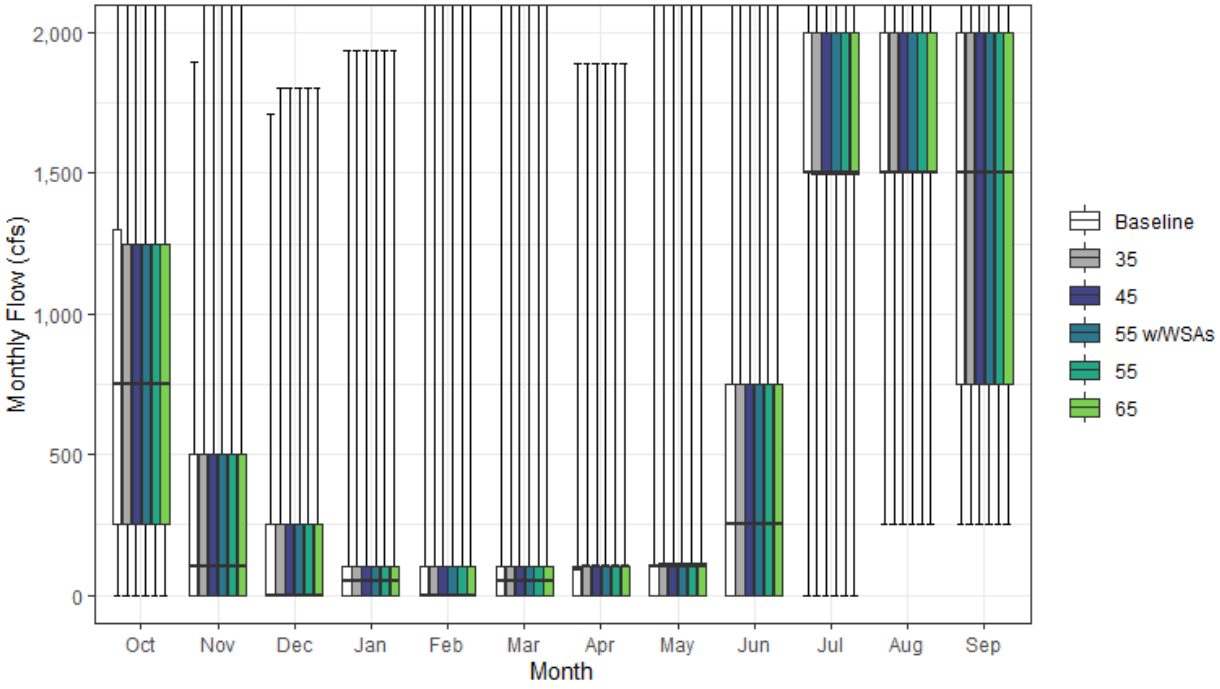

Figure H1a3-63. Clear Creek Tunnel Monthly Boxplot (cfs)

Table H1a3-125. 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													
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													
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													
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													
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													
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 H1a3-126. 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												
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												
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												
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												
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												
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

H1a3.4.12 Spring Creek Conduit

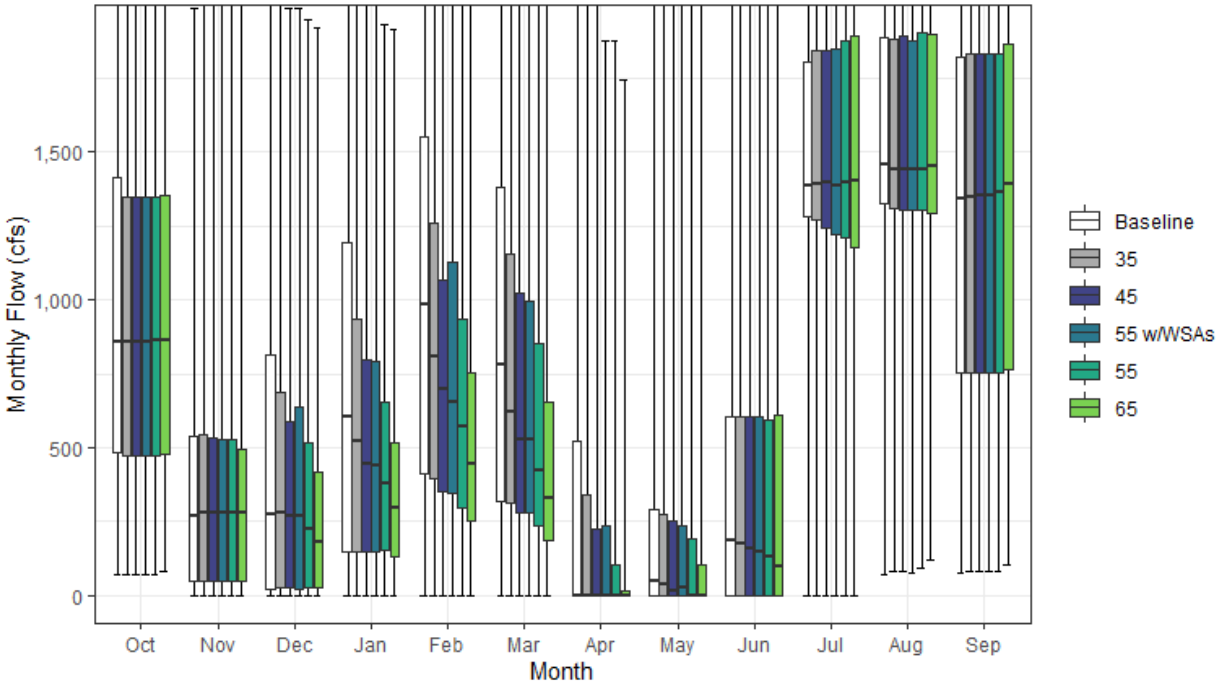

Figure H1a3-64. Spring Creek Conduit Monthly Boxplot (cfs)

Table H1a3-127. 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													
0%	70	0	0	0	0	0	0	0	0	0	80	81	183
10%	239	0	0	21	157	140	0	0	0	73	829	503	332
25%	470	48	26	148	393	313	0	0	0	1,271	1,308	753	437
50%	858	277	279	524	811	620	0	39	173	1,391	1,440	1,347	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	2,991	2,481	2,045	800
100%	3,434	3,287	2,051	2,798	3,748	3,847	2,144	3,502	3,467	3,351	3,190	3,233	1,497
Mean	984	414	439	624	961	821	247	245	413	1,497	1,563	1,299	575
45													
0%	70	0	0	0	0	0	0	0	0	0	83	81	180
10%	249	0	0	21	156	140	0	0	0	43	834	503	323
25%	469	48	25	148	350	279	0	0	0	1,244	1,305	753	422
50%	858	277	267	442	700	528	0	17	159	1,398	1,440	1,352	531
75%	1,349	534	589	797	1,065	1,025	226	254	605	1,844	1,891	1,832	657
90%	1,966	884	984	1,222	1,819	1,415	592	450	1,064	3,022	2,482	2,040	756
100%	3,439	3,287	1,987	2,366	3,324	3,736	2,011	3,473	3,412	3,309	3,189	3,217	1,399
Mean	985	403	397	551	858	729	196	228	408	1,498	1,564	1,300	551
55 w/WSAs													
0%	71	0	0	0	0	0	0	0	0	0	78	82	181
10%	238	0	0	21	157	140	0	0	0	38	815	503	332
25%	470	48	23	148	347	279	0	0	0	1,222	1,302	753	418
50%	858	277	268	441	654	528	0	24	148	1,388	1,440	1,352	527
75%	1,349	530	635	791	1,128	996	234	236	606	1,847	1,880	1,833	658
90%	1,964	892	991	1,134	1,821	1,399	495	446	1,056	2,993	2,479	2,045	735
100%	3,436	3,287	1,987	2,798	3,324	3,736	1,877	3,405	3,357	3,266	3,190	3,233	1,301
Mean	984	400	393	540	850	707	175	219	403	1,490	1,559	1,297	545
55													
0%	71	0	0	0	0	0	0	0	0	0	93	84	170
10%	240	0	0	21	157	140	0	0	0	13	864	503	294
25%	472	50	25	151	298	234	0	0	0	1,211	1,302	753	405
50%	864	277	225	377	571	424	0	1	130	1,398	1,440	1,364	515
75%	1,347	528	515	656	937	850	101	192	594	1,876	1,904	1,833	635
90%	1,964	864	853	1,058	1,656	1,397	413	341	1,054	3,009	2,527	2,041	713
100%	3,450	3,287	1,950	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	1,499	1,568	1,304	527
65													
0%	80	0	0	0	0	0	0	0	0	0	117	105	161
10%	246	0	0	22	141	107	0	0	0	2	869	522	283
25%	476	50	24	129	251	185	0	0	0	1,177	1,291	761	372
50%	865	278	178	297	443	328	0	0	99	1,406	1,454	1,391	494
75%	1,352	495	415	516	754	655	13	103	610	1,891	1,901	1,867	606
90%	1,969	817	696	828	1,632	1,211	305	254	1,061	2,993	2,530	2,047	706
100%	3,448	3,288	1,921	1,916	3,308	3,516	1,746	3,344	3,309	3,241	3,236	3,230	1,205
Mean	989	378	307	401	646	539	109	172	387	1,499	1,577	1,321	504

Table H1a3-128. 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												
C	747	151	175	211	784	366	9	255	633	2,315	1,329	792
D	902	407	270	249	1,058	674	33	51	545	1,567	1,831	1,371
BN	1,017	398	191	647	589	775	220	58	410	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	1,131	554	815	971	1,173	1,189	517	506	309	1,350	1,522	1,585
All	984	414	439	624	961	821	247	245	413	1,497	1,563	1,299
45												
C	748	151	161	202	753	352	6	248	635	2,313	1,331	790
D	904	401	255	235	1,007	602	21	45	543	1,587	1,842	1,374
BN	1,017	393	174	594	518	715	183	54	410	1,114	1,537	1,165
AN	1,029	445	518	833	914	714	268	185	132	1,248	1,534	1,342
W	1,132	529	719	830	999	1,039	407	479	297	1,342	1,513	1,585
All	985	403	397	551	858	729	196	228	408	1,498	1,564	1,300
55 w/WSAs												
C	746	151	175	211	782	367	8	256	634	2,319	1,331	780
D	902	394	261	235	1,030	627	22	50	548	1,564	1,836	1,373
BN	1,017	387	174	608	523	720	201	53	405	1,106	1,534	1,166
AN	1,027	439	525	872	941	713	257	179	128	1,249	1,531	1,342
W	1,131	528	691	763	926	937	325	446	281	1,335	1,503	1,583
All	984	400	393	540	850	707	175	219	403	1,490	1,559	1,297
55												
C	755	152	147	189	718	325	3	235	629	2,313	1,332	791
D	904	392	234	220	954	530	11	32	541	1,599	1,875	1,388
BN	1,018	387	158	541	440	649	145	45	407	1,116	1,541	1,171
AN	1,026	430	476	713	750	581	220	123	123	1,248	1,529	1,342
W	1,132	503	622	686	823	887	303	436	278	1,333	1,503	1,583
All	986	390	352	478	753	634	149	201	399	1,499	1,568	1,304
65												
C	758	153	134	172	682	300	1	226	617	2,305	1,337	794
D	907	383	213	198	898	459	3	25	519	1,599	1,887	1,413
BN	1,021	382	140	486	361	582	113	38	406	1,119	1,564	1,195
AN	1,026	417	430	593	588	450	181	63	118	1,257	1,536	1,373
W	1,136	477	523	542	648	734	212	381	262	1,334	1,502	1,593
All	989	378	307	401	646	539	109	172	387	1,499	1,577	1,321

H1a3.4.13 Robbs Peak Tunnel

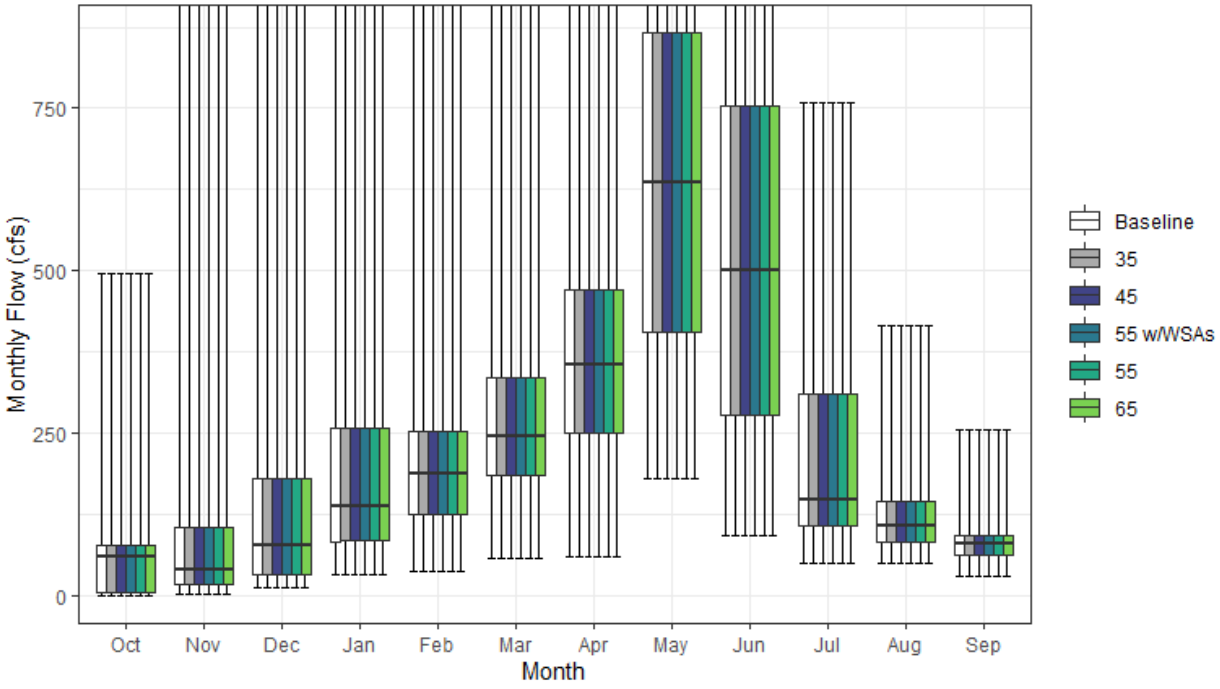

Figure H1a3-65. Robbs Peak Tunnel Monthly Boxplot (cfs)

Table H1a3-129. 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													
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													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
55 w/WSAs													
0%	0	2	12	31	36	58	59	179	91	50	48	29	51
10%	0	11	21	60	82	124	182	273	180	81	72	54	83
25%	5	17	33	83	124	185	250	406	278	107	81	63	116
50%	60	40	76	138	186	244	355	637	500	148	107	79	170
75%	77	105	181	257	253	335	469	866	752	311	146	92	237
90%	117	224	541	375	353	467	640	1,020	988	407	168	108	279
100%	496	968	1,020	1,020	1,020	956	1,020	1,020	1,020	758	416	256	422
Mean	65	95	170	192	219	276	382	645	532	220	119	82	181
55													
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													
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 H1a3-130. 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												
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
45												
C	47	32	46	64	100	142	175	289	240	90	77	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
55 w/WSAs												
C	47	32	46	64	100	142	175	289	240	90	77	72
D	47	72	96	97	150	225	320	494	368	130	90	87
BN	59	65	78	132	176	259	427	653	512	180	108	77
AN	63	144	182	280	252	342	402	781	559	212	118	70
W	93	146	344	331	348	369	502	886	811	382	169	94
All	65	95	170	192	219	276	382	645	532	220	119	82
55												
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												
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

H1a3.4.14 Lake Valley Canal

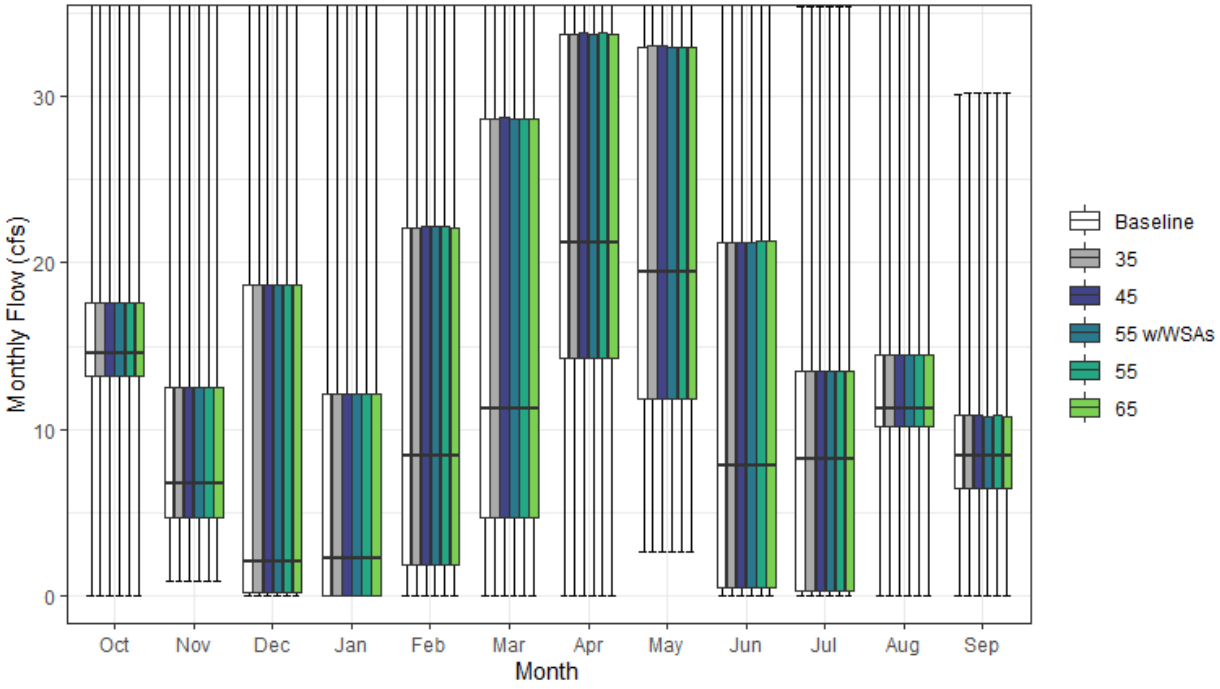

Figure H1a3-66. Lake Valley Canal Monthly Boxplot (cfs)

Table H1a3-131. 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													
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													
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													
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													
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													
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 H1a3-132. 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												
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												
C	15	7	3	2	5	14	19	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
55 w/WSAs												
C	15	7	4	2	5	14	20	16	6	4	7	8
D	17	10	6	2	8	15	26	22	6	7	11	8
BN	15	8	2	5	12	17	26	27	15	10	12	9
AN	15	12	14	21	16	23	29	25	11	10	15	10
W	18	14	20	17	19	16	18	22	22	12	11	10
All	16	11	10	9	13	17	23	23	13	9	11	9
55												
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												
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

H1a3.5 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 H1a3-133. 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 H1a3-134. Reservoirs that exhibit greater than one percent change from baseline storage during April or September are listed in Table H1a3-135.

Results for other reservoirs listed in Tables H1a3-134 and H1a3-135 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 H1a3-136).

Table H1a3-133. Non-reoperated Reservoirs with Constant End-of-April and End-of-September Storage (TAF).

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

Table H1a3-134. 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 H1a3-135. 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

Reservoir	Watershed
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 H1a3-136. Average Annual Change in Elevation for Reservoirs with Elevational Changes Calculated by SacWAM (ft).

			Flow Scenario Minus Baseline				
Reservoir	Watershed	Baseline	35	45	55	55 w/WSAs	65
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	-2.1	-6.7	-12.3	-8.4	-9
French Meadows	American	65.7	0	-0.1	-0.9	-0.1	-3.9
Hell Hole	American	102.7	-0.1	-0.3	-2.7	-0.2	-3.4
Indian Valley Reservoir	Cache	50	2.6	2.8	0.9	3.7	-4
Jackson Meadows Reservoir	Yuba	38.2	-0.4	-0.6	-1.5	-0.6	-4.4
Lake Almanor	Feather	8.8	0	0	0	0	0
Lake Berryessa	Putah	20.4	-5.4	-6.8	-8.1	-1.2	-9.2
Lake Fordyce	Yuba	67.8	-0.8	-2.1	-7.2	-3	-15.8
Lake Spaulding	Yuba	107.6	-0.6	-1.3	-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	-17.9	-29.7	-42.4	-30.4	-66
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	-6.1	-5.2	-3.4	-5.3	-6.9
Stony Gorge Reservoir	Stony	11.8	6.7	9.3	13.6	9.9	18.1
San Luis Reservoir Total	SOD Offstream	125.1	7.1	2.8	3.2	-0.8	8.9
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

H1a3.5.1 Antelope Reservoir (Feather River Watershed)

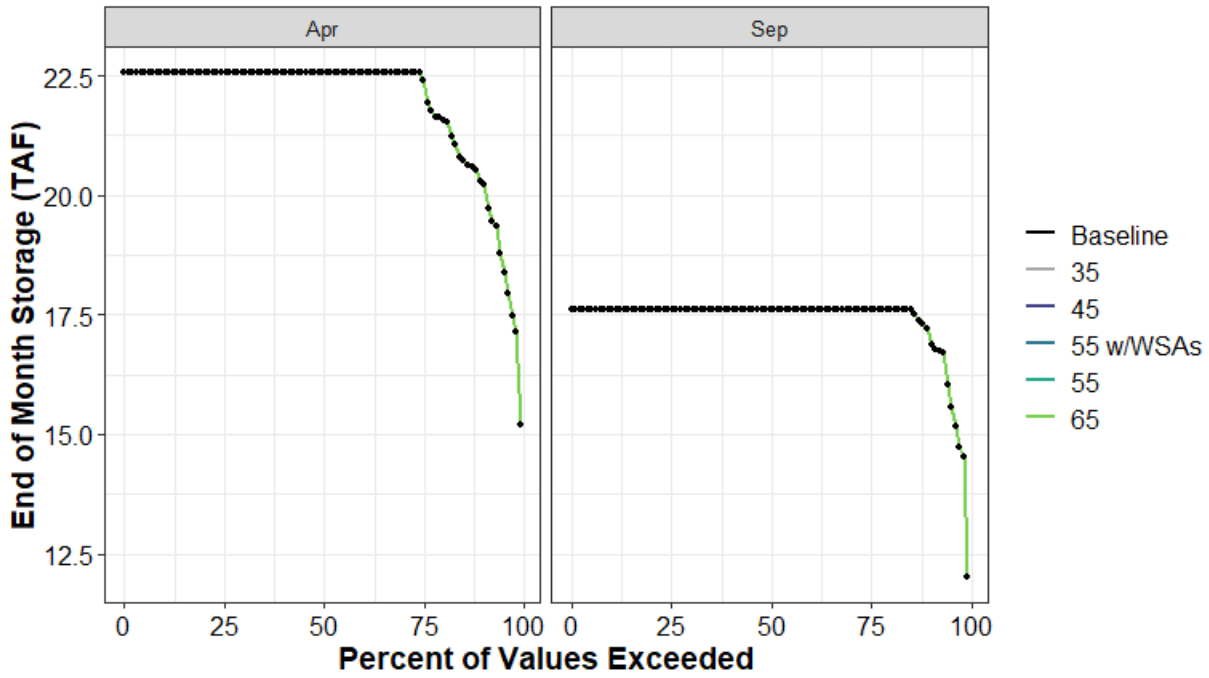

Figure H1a3-67. Antelope Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

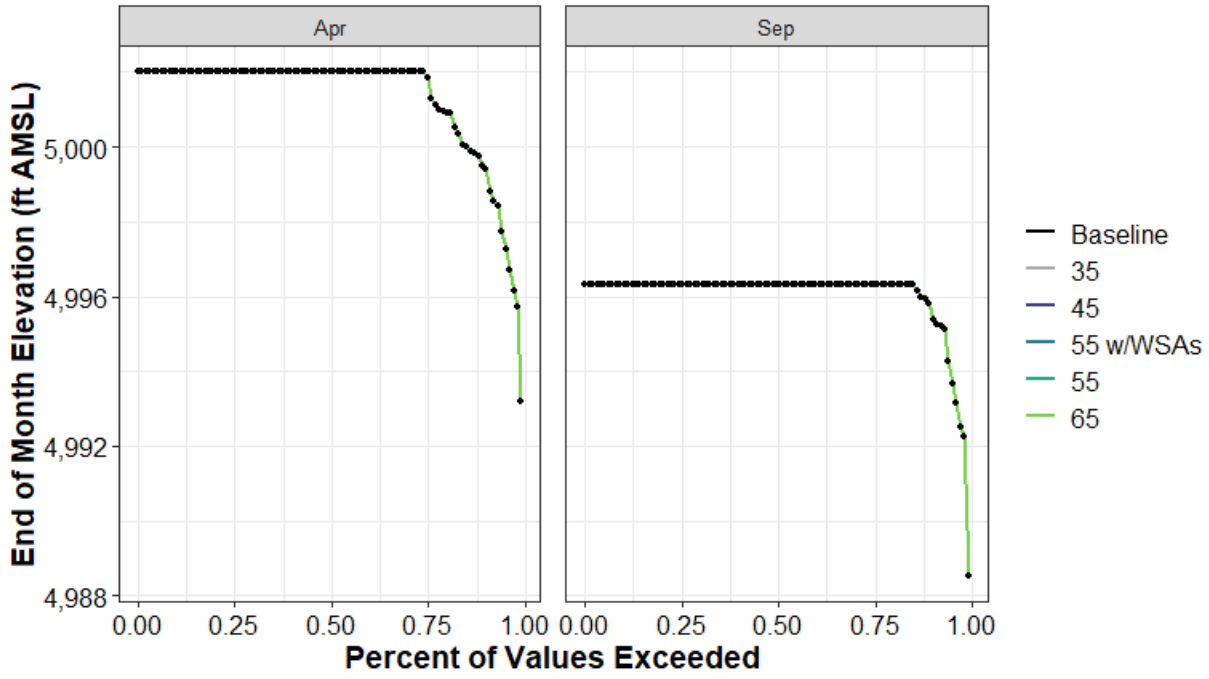

Figure H1a3-68. Antelope Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-137. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-138. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-139. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-140. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Antelope Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.2 Black Butte Reservoir (Stony Creek Watershed)

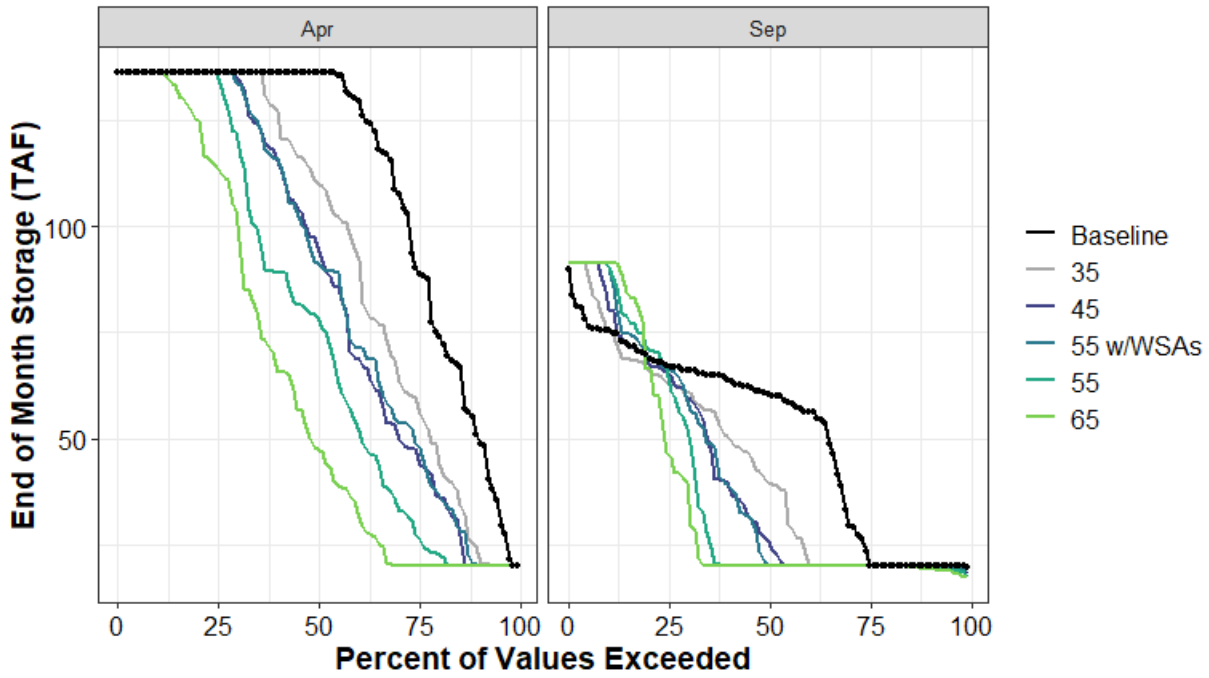

Figure H1a3-69. Black Butte Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

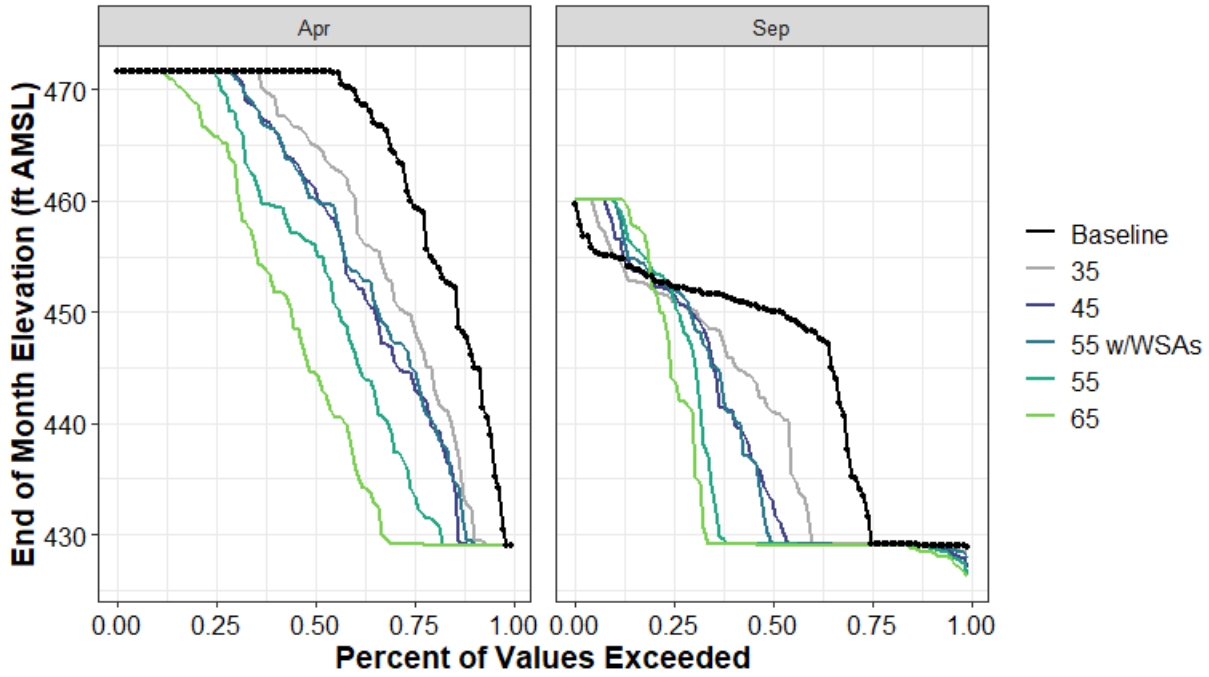

Figure H1a3-70. Black Butte Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-141. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-142. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-143. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-144. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Black Butte Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.3 Bowman Lake (Yuba River Watershed)

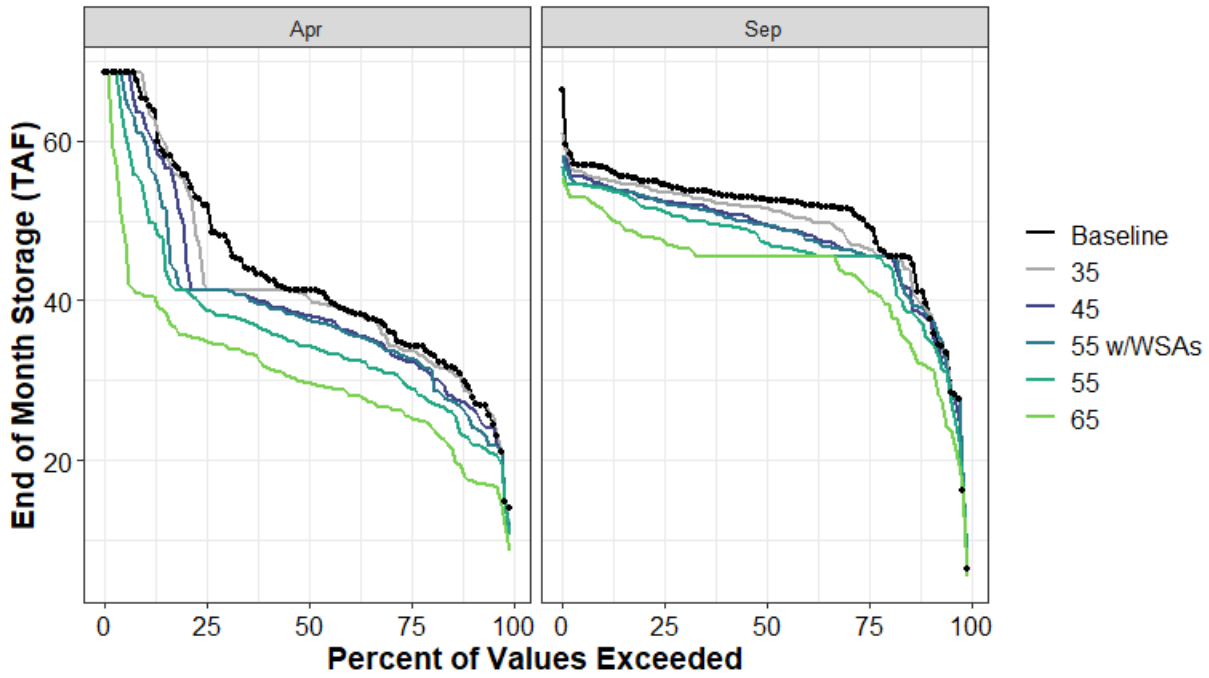

Figure H1a3-71. Bowman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

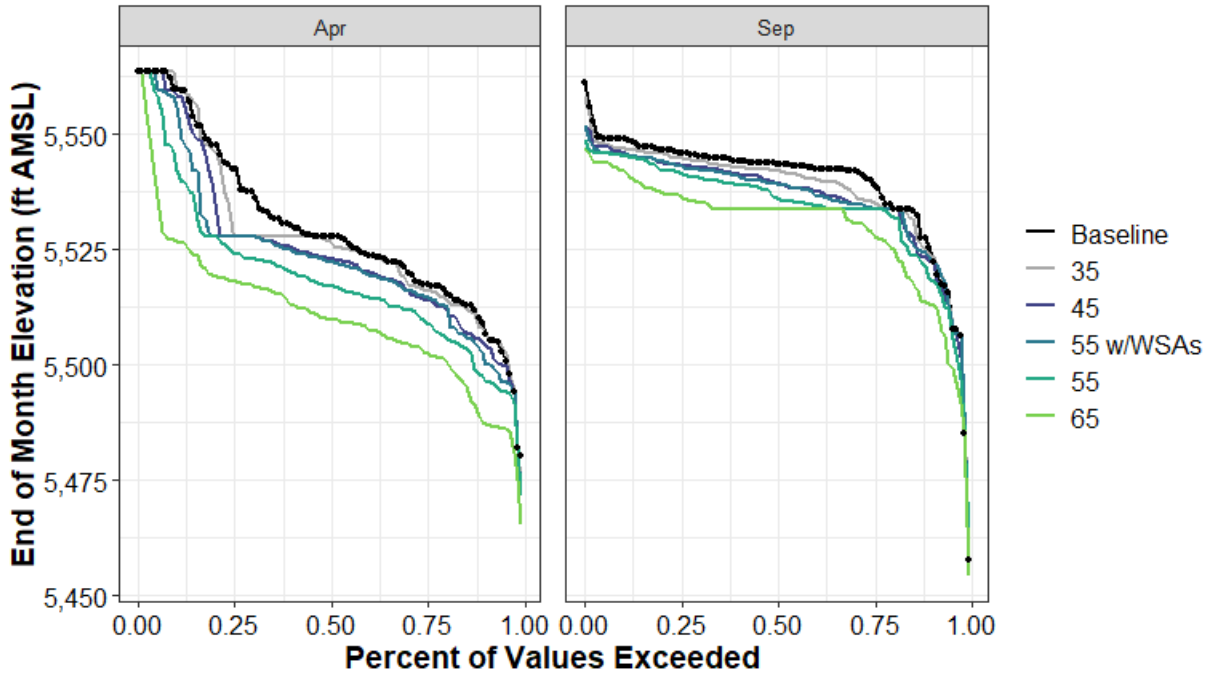

Figure H1a3-72. Bowman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-145. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35	45	55 w/WSAs	55	65
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	-2	-3	-3	-5
100%	66	-5	-8	-8	-10	-11
Mean	50	-1	-3	-3	-4	-7

Table H1a3-146. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	5,458	3	3	0	4	-4
10%	5,525	-1	-2	-2	-6	-12
25%	5,540	-4	-6	-6	-6	-11
50%	5,544	-2	-4	-4	-7	-10
75%	5,546	-1	-3	-3	-4	-9
90%	5,549	-2	-3	-3	-4	-7
100%	5,561	-3	-9	-9	-12	-14
Mean	5,539	-2	-3	-4	-5	-10

Table H1a3-147. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	14	-2	-3	-3	-3	-5
10%	29	0	-2	-4	-6	-11
25%	34	-1	-2	-2	-5	-9
50%	41	-1	-3	-4	-7	-12
75%	52	-10	-11	-11	-13	-17
90%	65	1	-3	-5	-13	-25
100%	69	0	0	0	0	0
Mean	43	-1	-3	-4	-7	-13

Table H1a3-148. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bowman Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.4 Bucks Lake (Feather River Watershed)

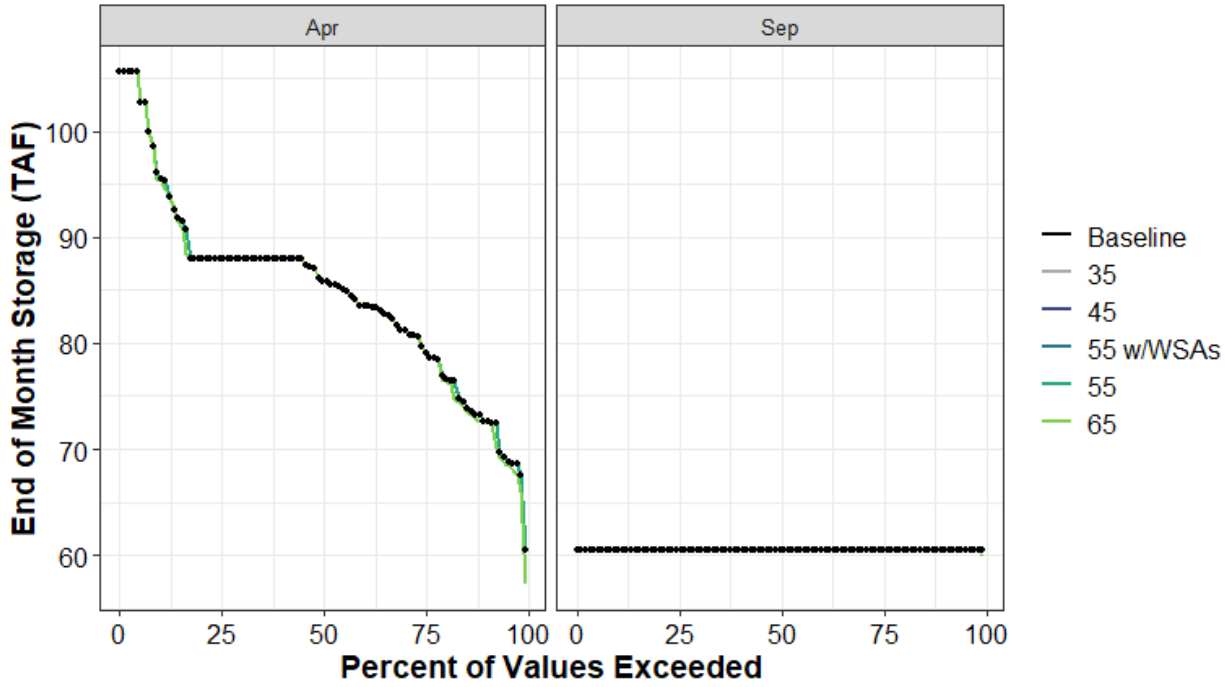

Figure H1a3-73. Bucks Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

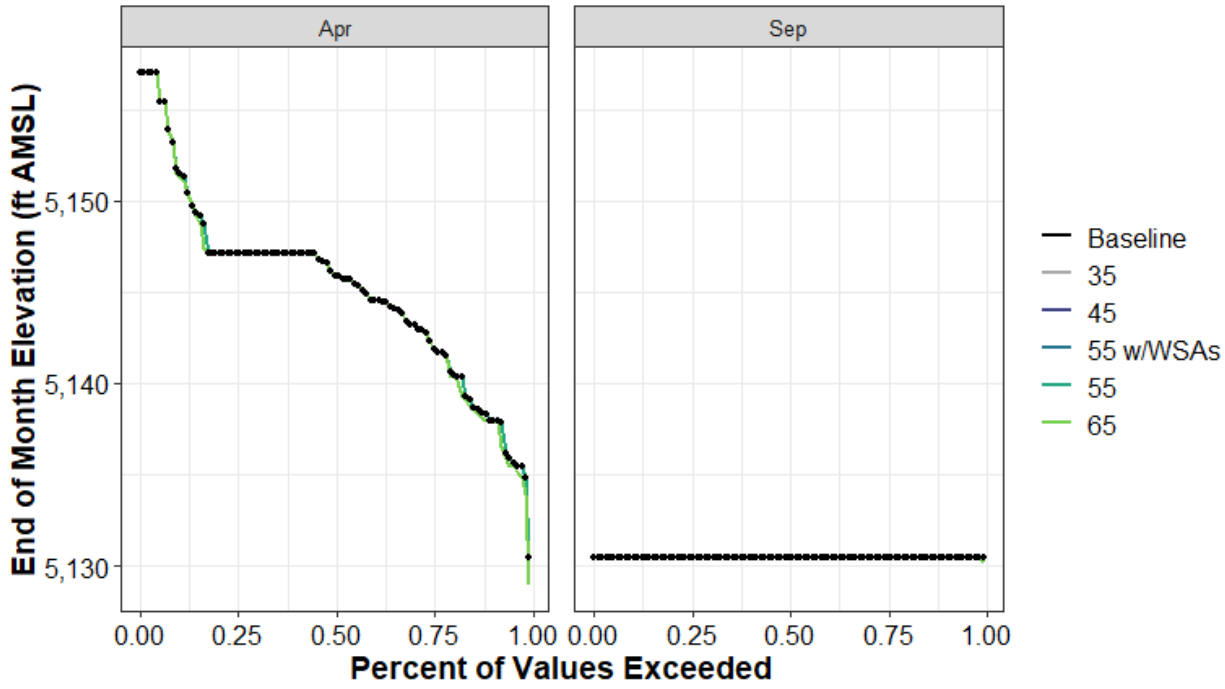

Figure H1a3-74. Bucks Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-149. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-150. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-151. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-152. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Bucks Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.5 Butt Valley (Feather River Watershed)

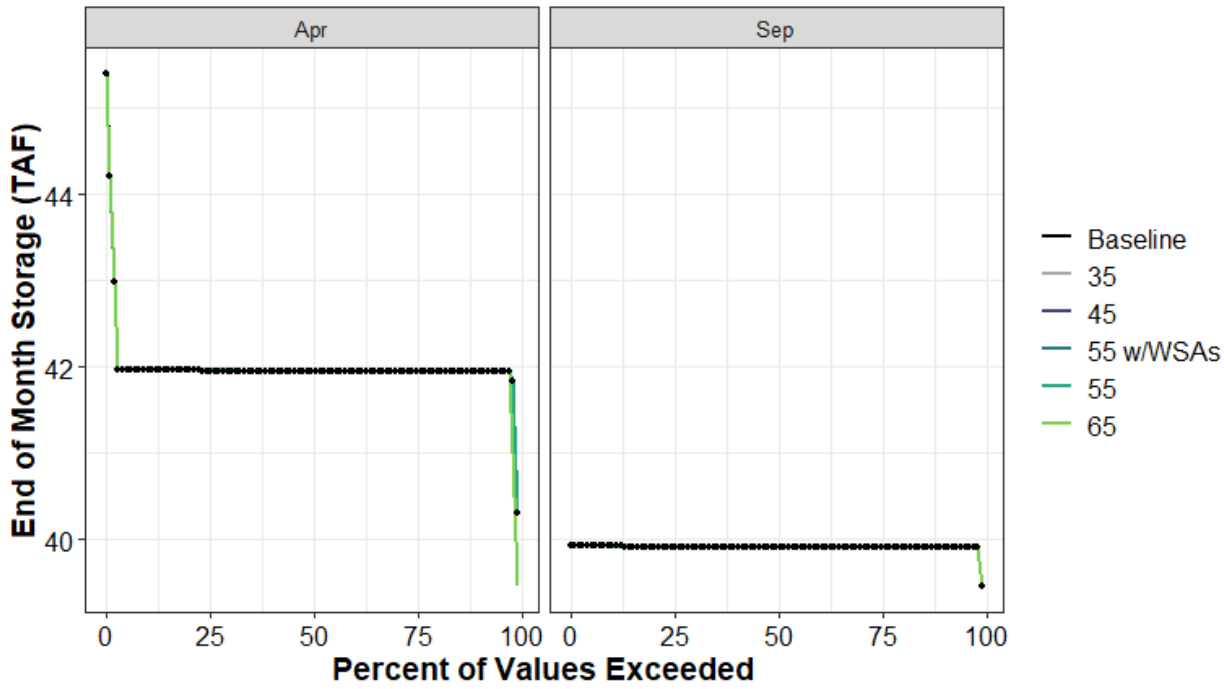

Figure H1a3-75. Butt Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

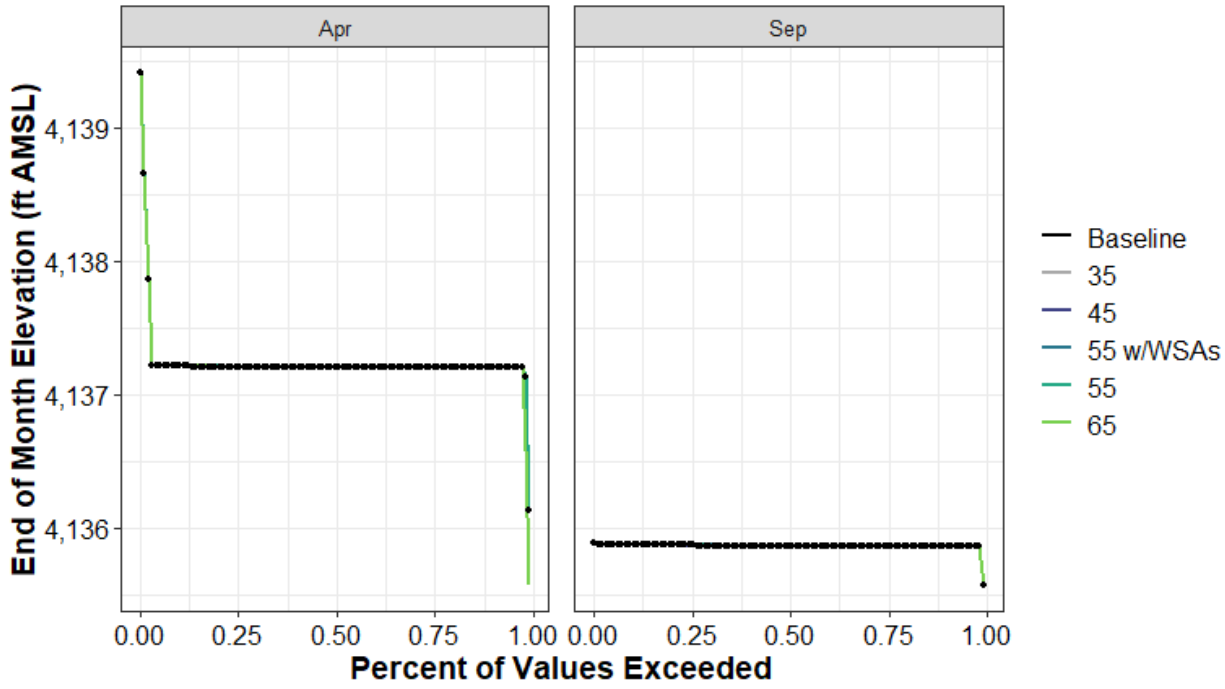

Figure H1a3-76. Butt Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-153. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-154. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-155. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Butt Valley

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-156. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Butt Valley

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.6 Camanche Reservoir (Mokelumne River Watershed)

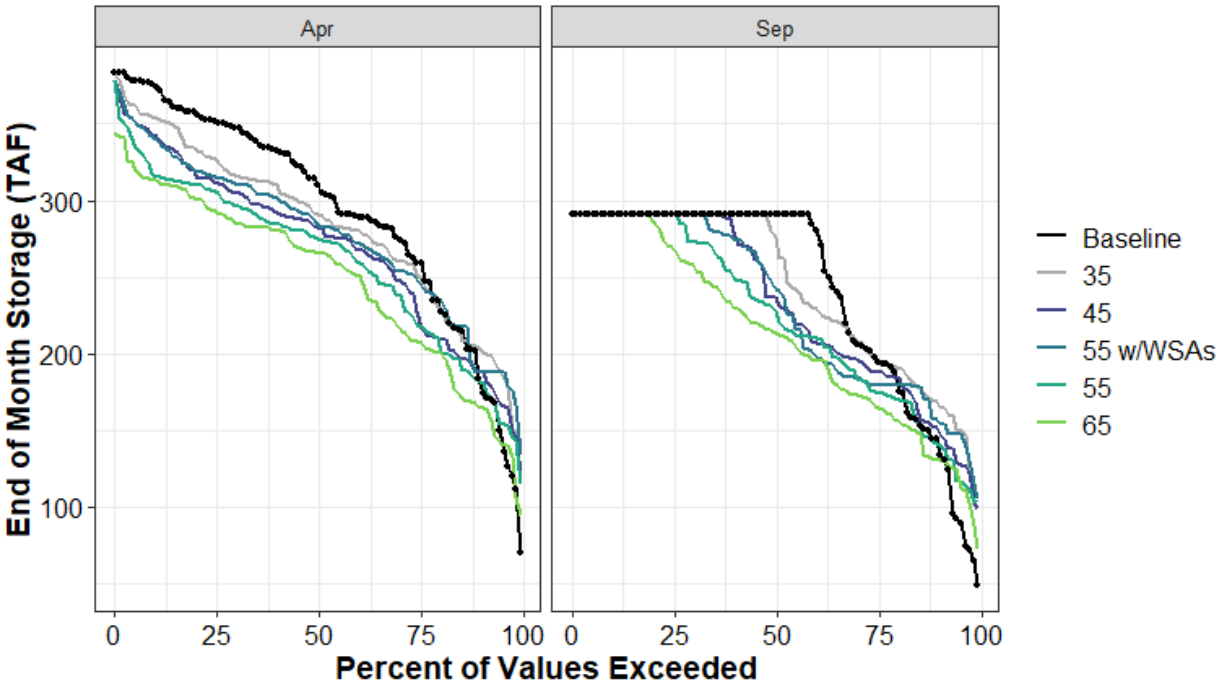

Figure H1a3-77. Camanche Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

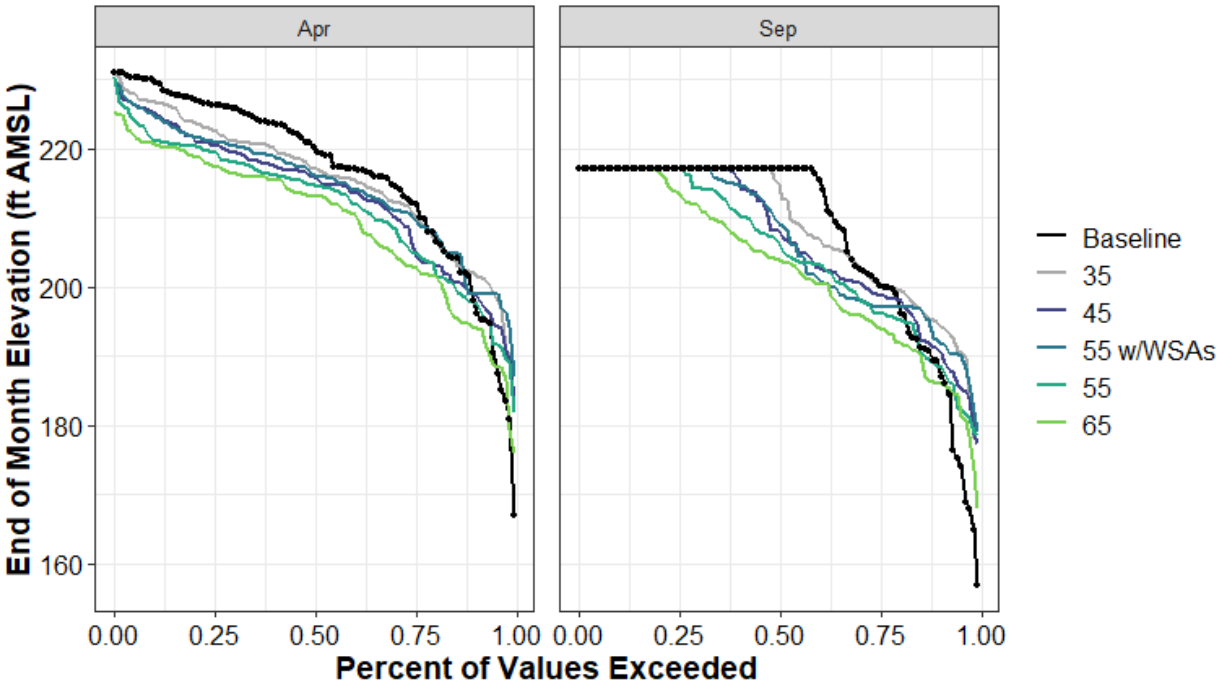

Figure H1a3-78. Camanche Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-157. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-158. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-159. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	69	73	53	65	45	25
10%	182	21	6	6	0	-17
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 H1a3-160. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camanche Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.7 Camp Far West (Bear River Watershed)

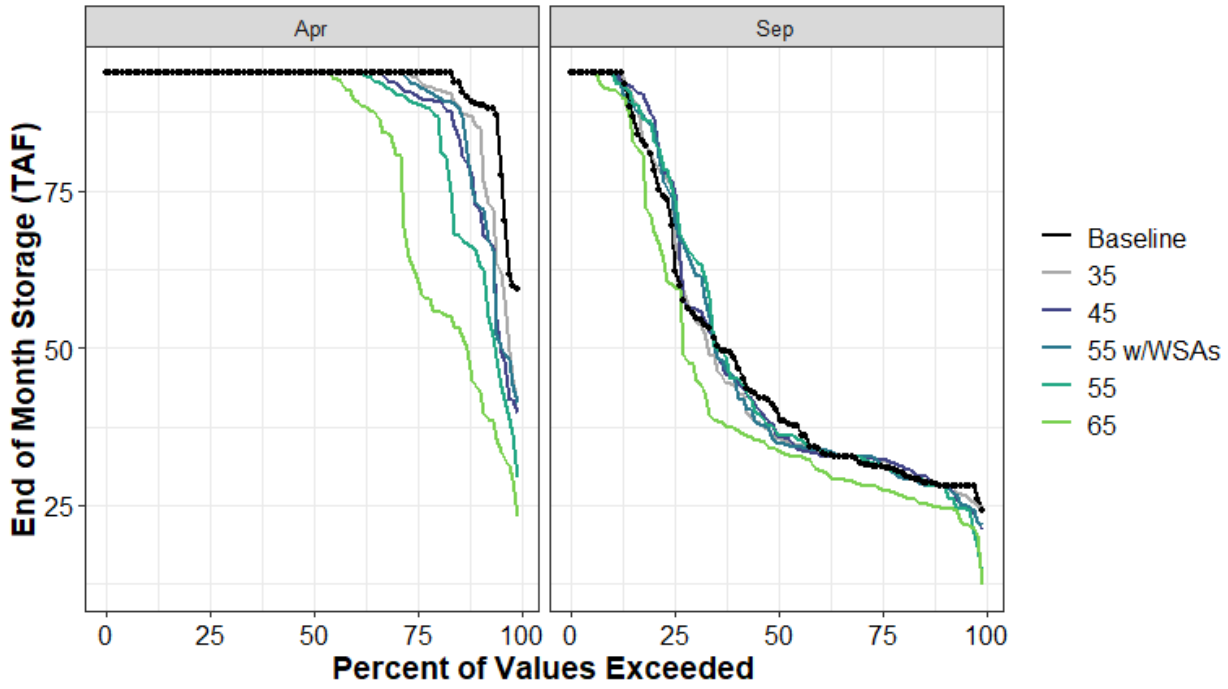

Figure H1a3-79. Camp Far West End of April and End of September Storage (TAF) Percent Exceedance Plot

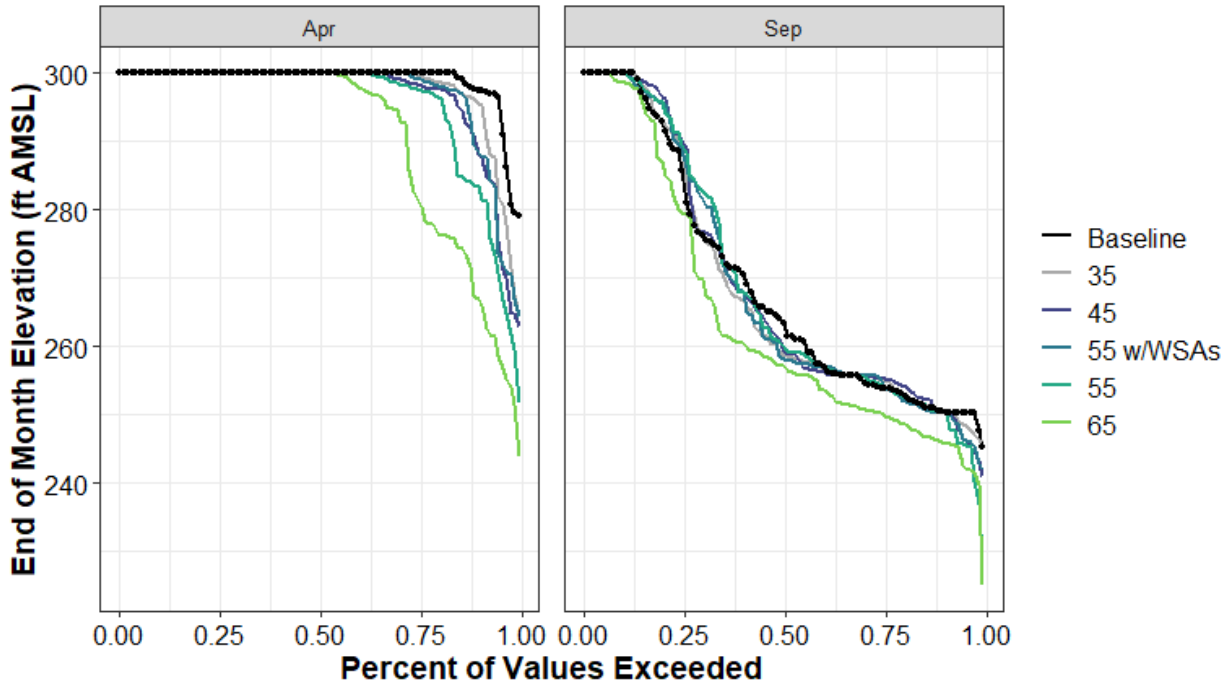

Figure H1a3-80. Camp Far West Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-161. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35	45	55 w/WSAs	55	65
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	-1	0	0	0	-5

Table H1a3-162. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-163. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Camp Far West

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-164. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Camp Far West

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.8 Caples Lake (American River Watershed)

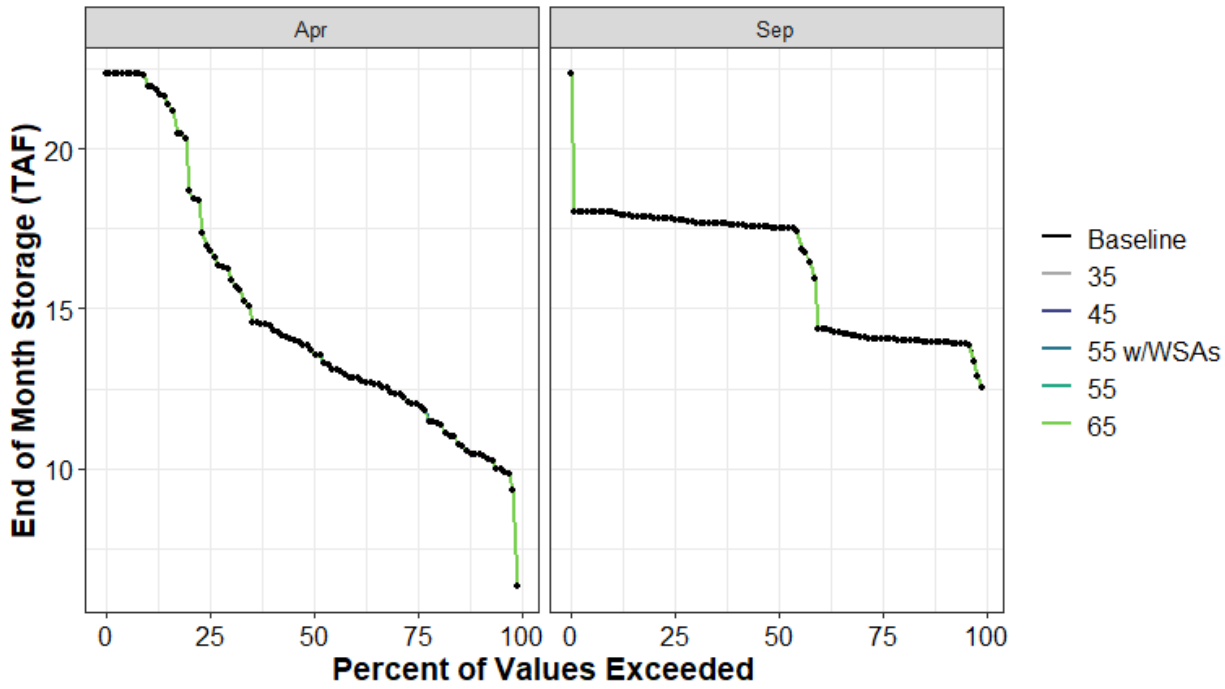

Figure H1a3-81. Caples Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

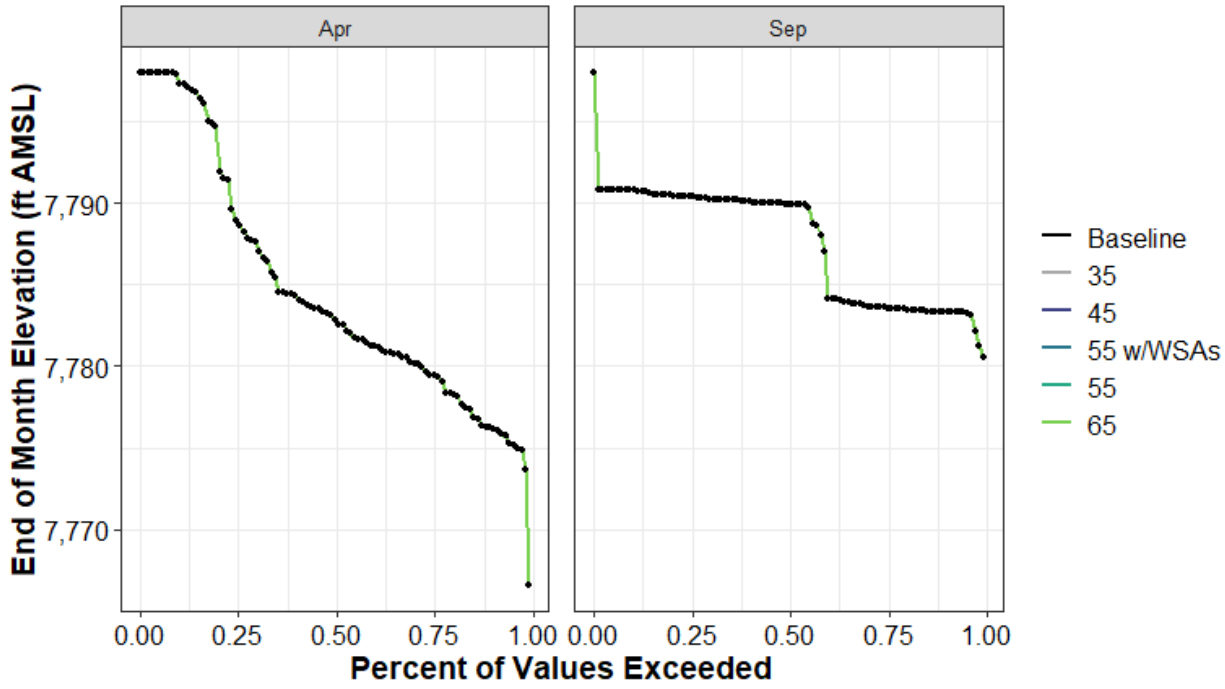

Figure H1a3-82. Caples Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-165. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-166. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-167. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Caples Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-168. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Caples Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.9 Clear Lake (Cache Creek Watershed)

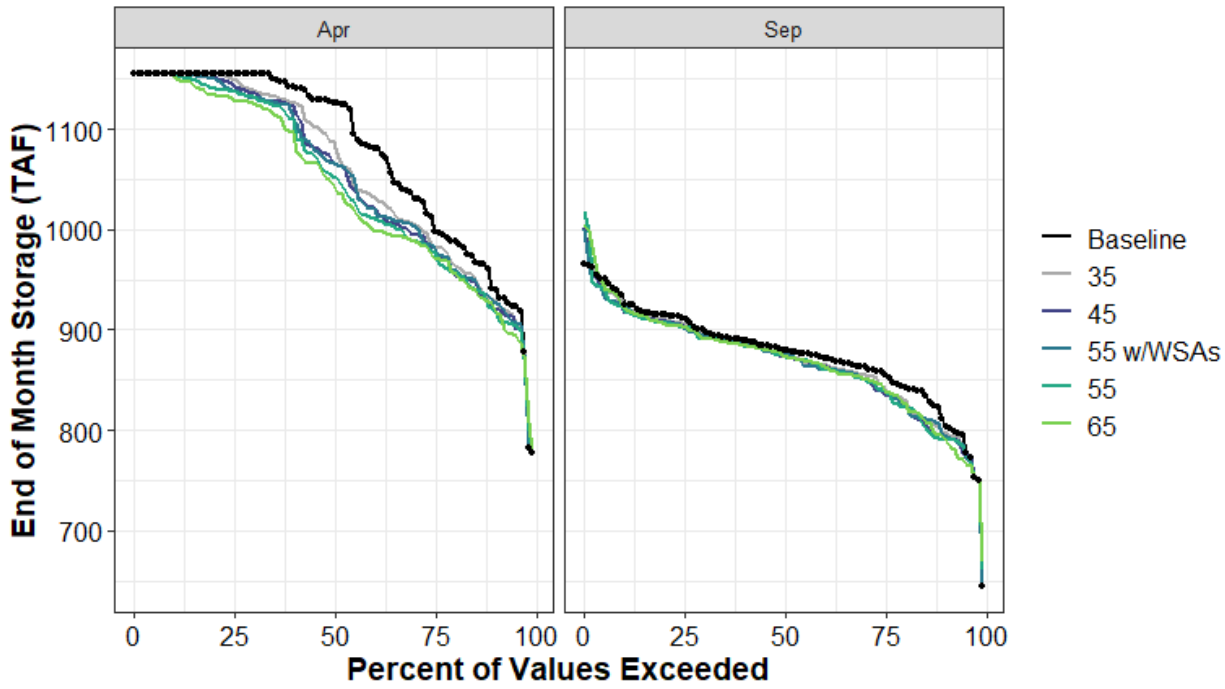

Figure H1a3-83. Clear Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

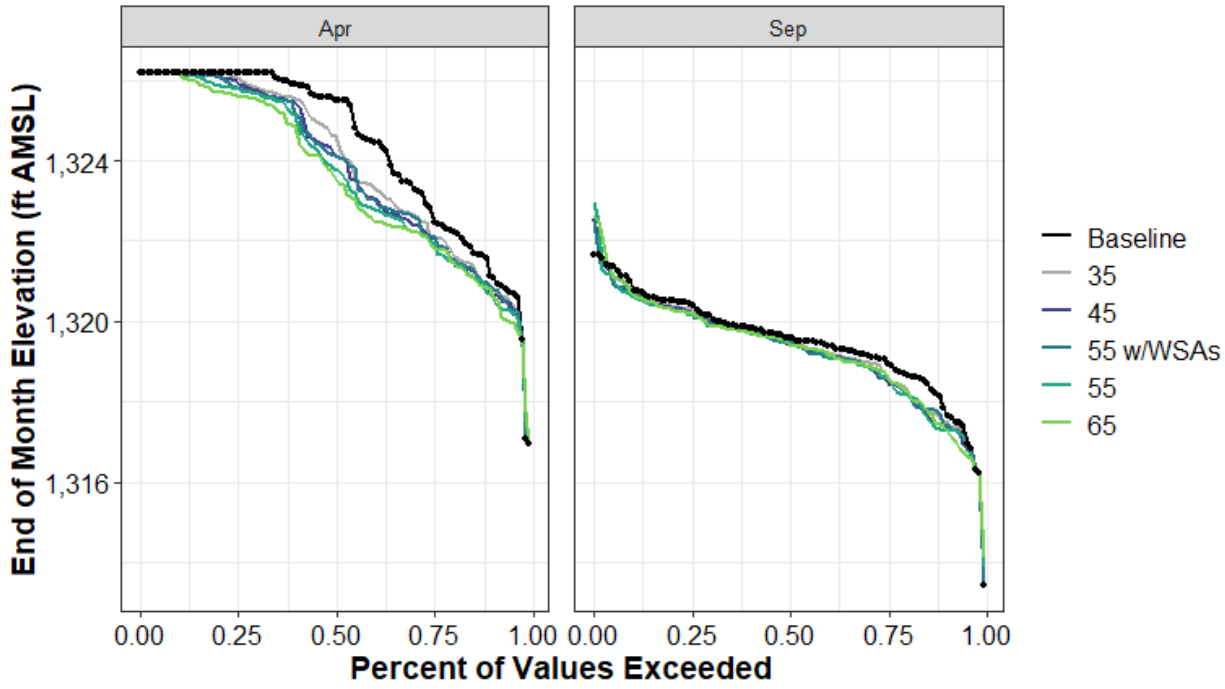

Figure H1a3-84. Clear Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-169. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	645	0	2	-1	16	25
10%	810	-11	-16	-14	-19	-16
25%	856	-14	-19	-17	-16	-14
50%	880	-5	-7	-4	-6	-7
75%	911	-4	-8	-9	-9	-8
90%	928	-6	-8	-5	-9	-6
100%	965	1	36	34	52	39
Mean	876	-7	-9	-9	-9	-8

Table H1a3-170. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-171. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Clear Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	777	0	0	0	0	0
10%	941	-10	-21	-11	-20	-16
25%	1,005	-22	-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 H1a3-172. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Clear Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.10 CVP San Luis Reservoir (South of Delta Offstream)

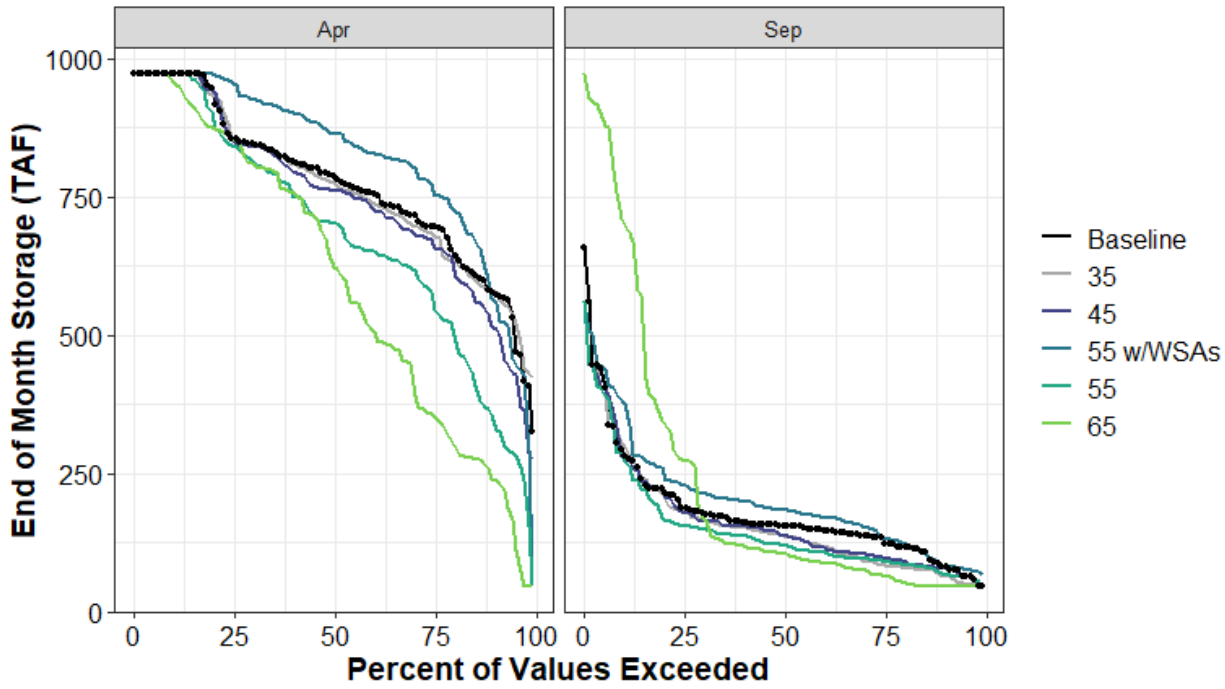

Figure H1a3-85. CVP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-173. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	45	1	3	21	0	0
10%	81	-17	-3	3	-13	-36
25%	128	-45	-32	4	-37	-63
50%	155	-19	-17	29	-35	-51
75%	188	-5	-7	41	-33	86
90%	283	18	-3	93	-7	418
100%	658	-98	-98	-98	-98	314
Mean	178	-20	-16	25	-29	45

Table H1a3-174. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for CVP San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	325	97	-50	-262	-280	-280
10%	578	0	-62	-14	-229	-339
25%	695	-13	-31	68	-133	-340
50%	789	-13	-27	76	-87	-166
75%	855	0	-5	100	-14	-1
90%	972	0	0	0	0	-17
100%	972	0	0	0	0	0
Mean	773	-4	-23	48	-92	-171

H1a3.5.11 East Park Reservoir (Stony Creek Watershed)

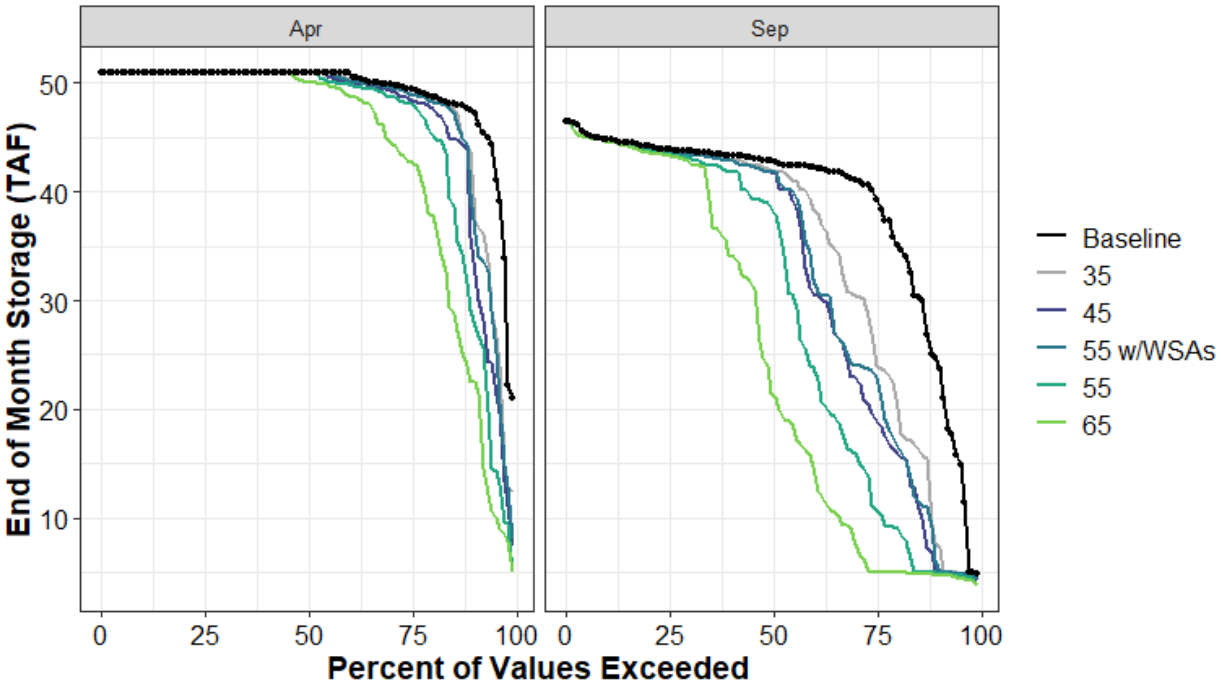

Figure H1a3-86. East Park Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

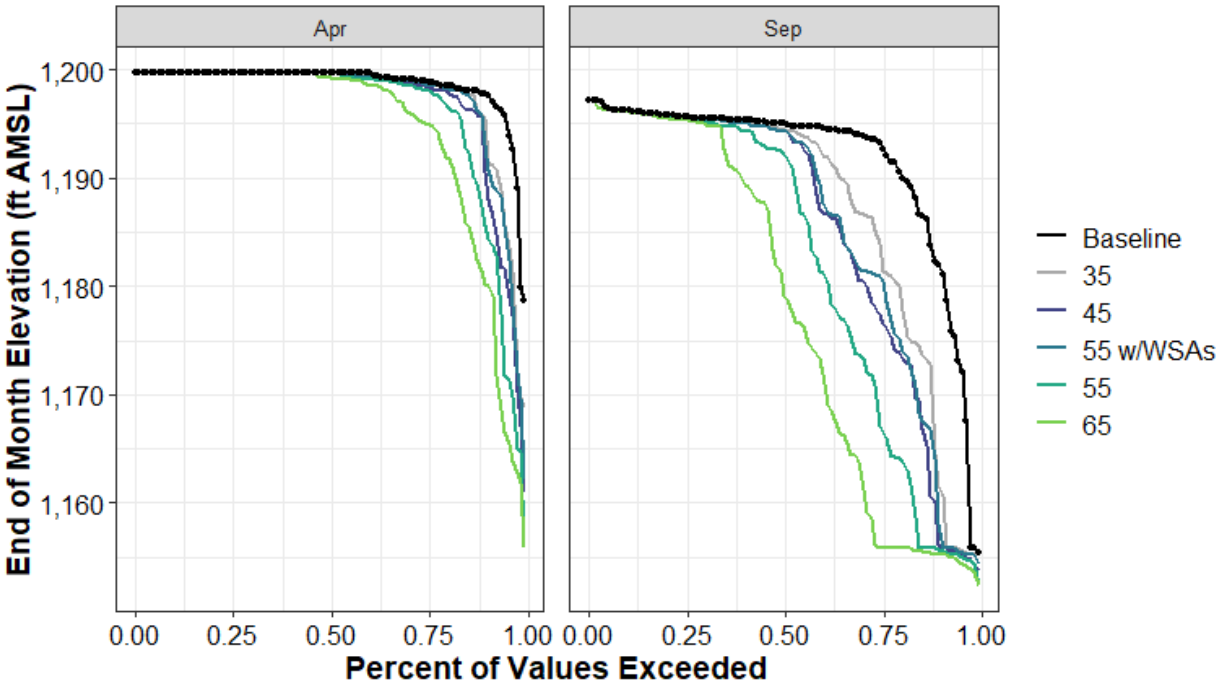

Figure H1a3-87. East Park Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-175. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-176. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-177. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-178. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for East Park Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.12 Folsom Lake (American River Watershed)

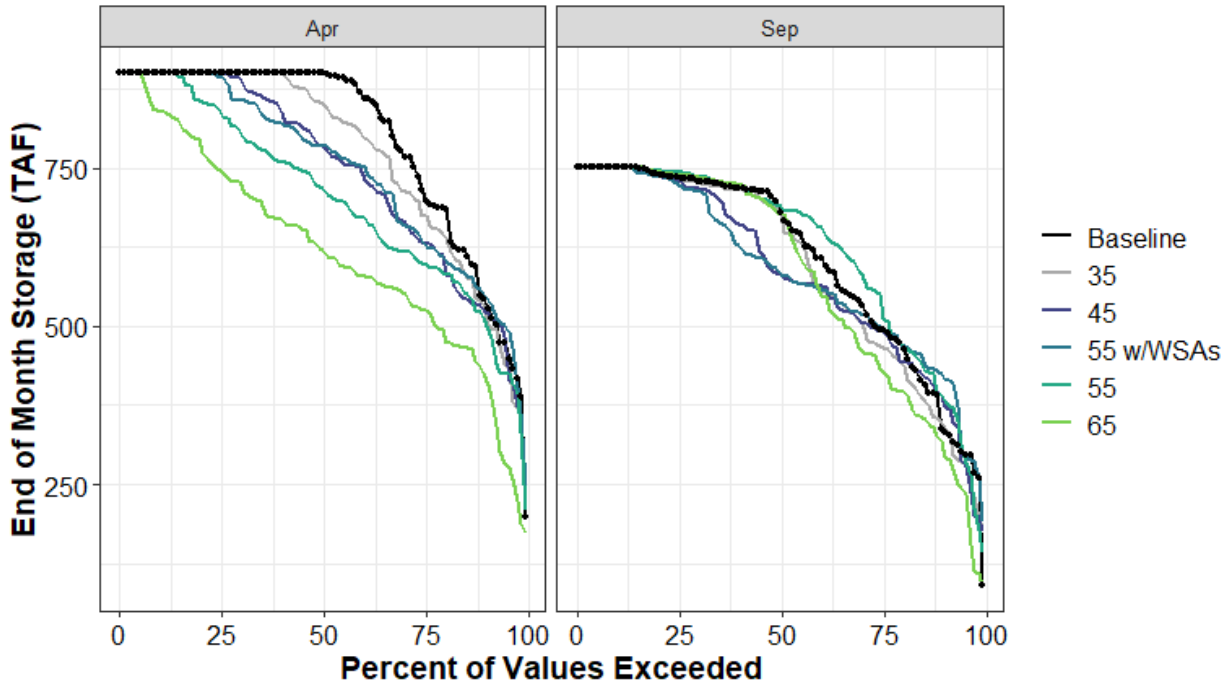

Figure H1a3-88. Folsom Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

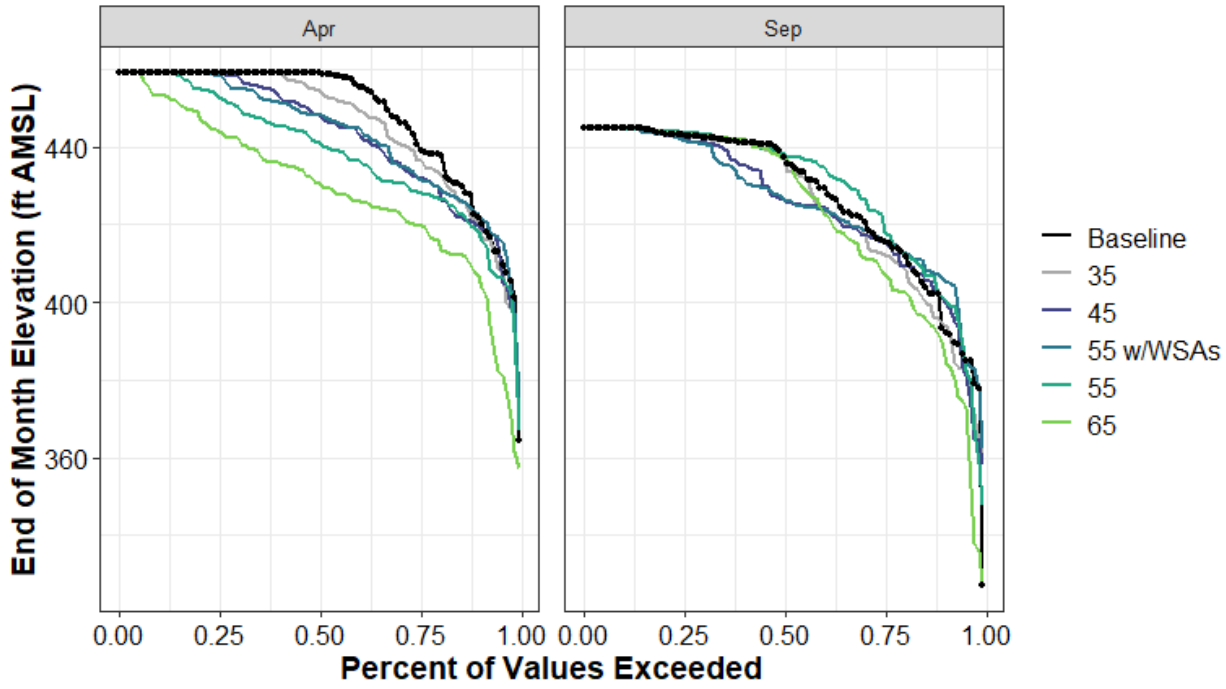

Figure H1a3-89. Folsom Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-179. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	90	97	85	102	51	0
10%	336	10	51	86	53	-23
25%	494	-25	-3	4	37	-63
50%	679	0	-98	-97	11	-1
75%	735	-2	-7	-12	8	4
90%	752	0	0	0	0	0
100%	752	0	0	0	0	0
Mean	606	-13	-23	-19	15	-28

Table H1a3-180. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	327	34	31	35	21	0
10%	393	2	8	13	8	-4
25%	416	-3	0	0	5	-8
50%	437	0	-11	-11	1	0
75%	443	0	-1	-1	1	0
90%	445	0	0	0	0	0
100%	445	0	0	0	0	0
Mean	427	-2	-2	-2	2	-4

Table H1a3-181. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	199	42	37	45	10	-26
10%	540	-13	-15	8	-31	-118
25%	706	-31	-73	-75	-108	-181
50%	900	-48	-115	-114	-182	-279
75%	900	0	0	-8	-66	-155
90%	900	0	0	0	0	-60
100%	900	0	0	0	0	0
Mean	797	-24	-53	-50	-94	-176

Table H1a3-182. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Folsom Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	364	10	9	10	2	-7
10%	421	-2	-2	1	-4	-15
25%	440	-3	-8	-8	-12	-20
50%	459	-4	-11	-11	-18	-28
75%	459	0	0	-1	-6	-15
90%	459	0	0	0	0	-6
100%	459	0	0	0	0	0
Mean	448	-2	-5	-5	-10	-19

H1a3.5.13 French Lake (Yuba River Watershed)

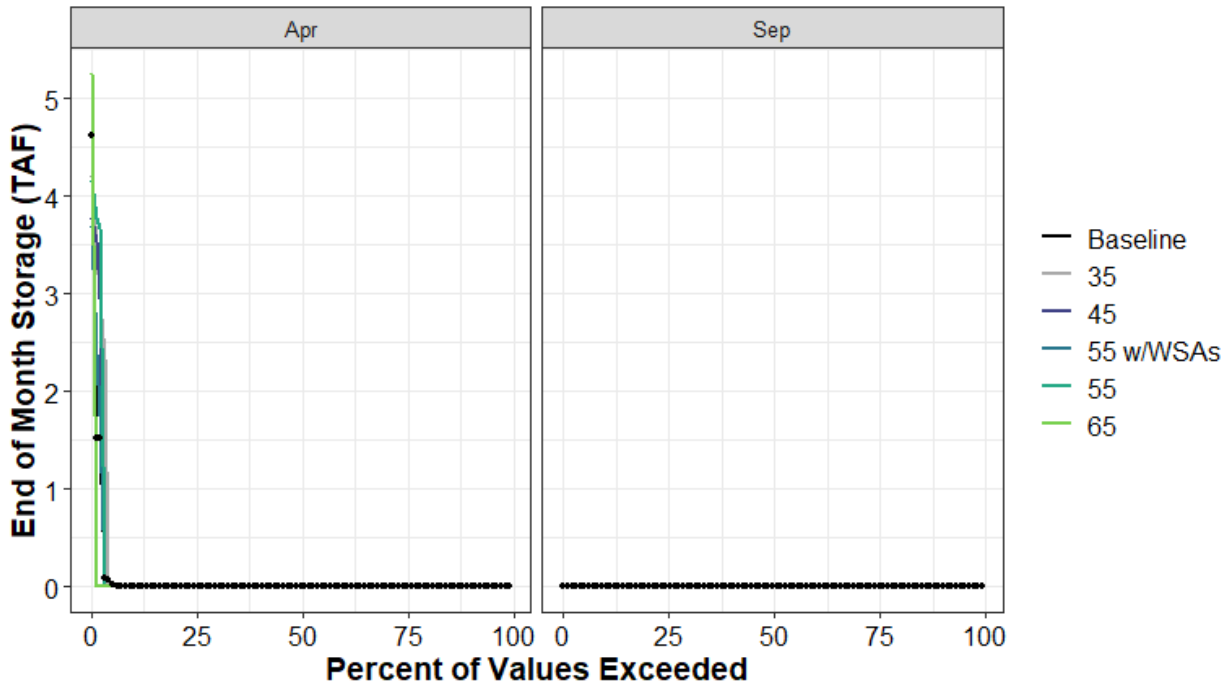

Figure H1a3-90. French Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-183. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-184. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	0	0	0	0	0	0
10%	0	0	0	0	0	0
25%	0	0	0	0	0	0
50%	0	0	0	0	0	0
75%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	5	0	-1	-1	0	1
Mean	0	0	0	0	0	0

H1a3.5.14 French Meadows (American River Watershed)

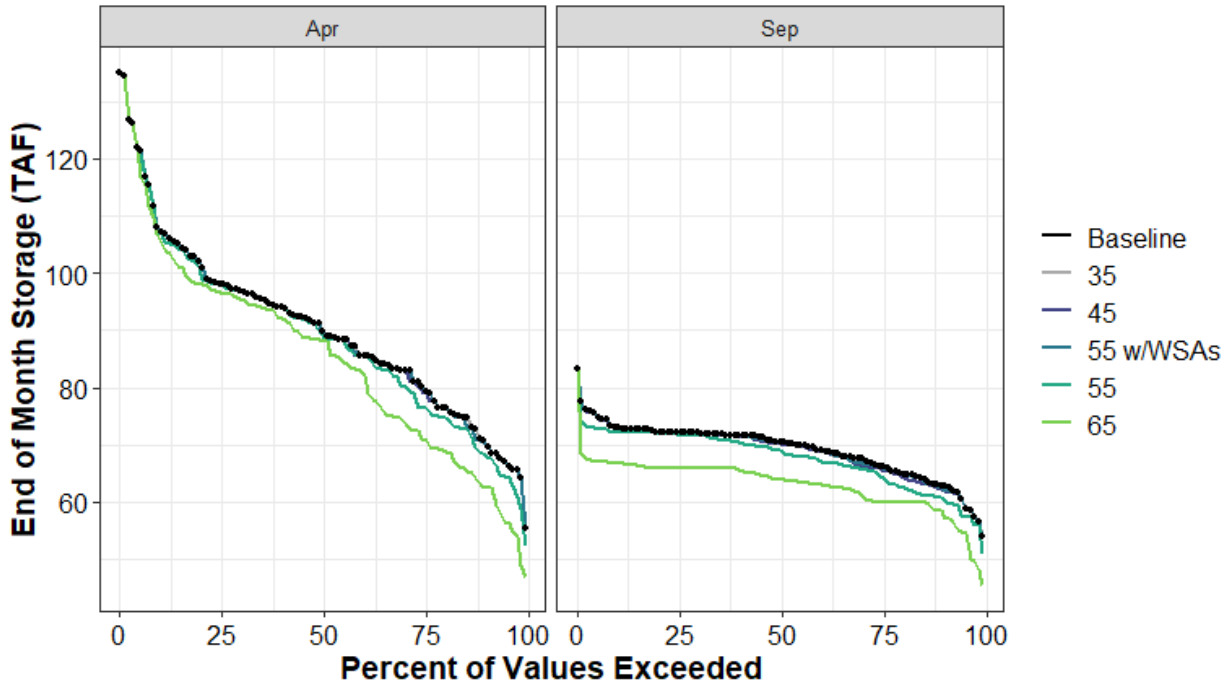

Figure H1a3-91. French Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

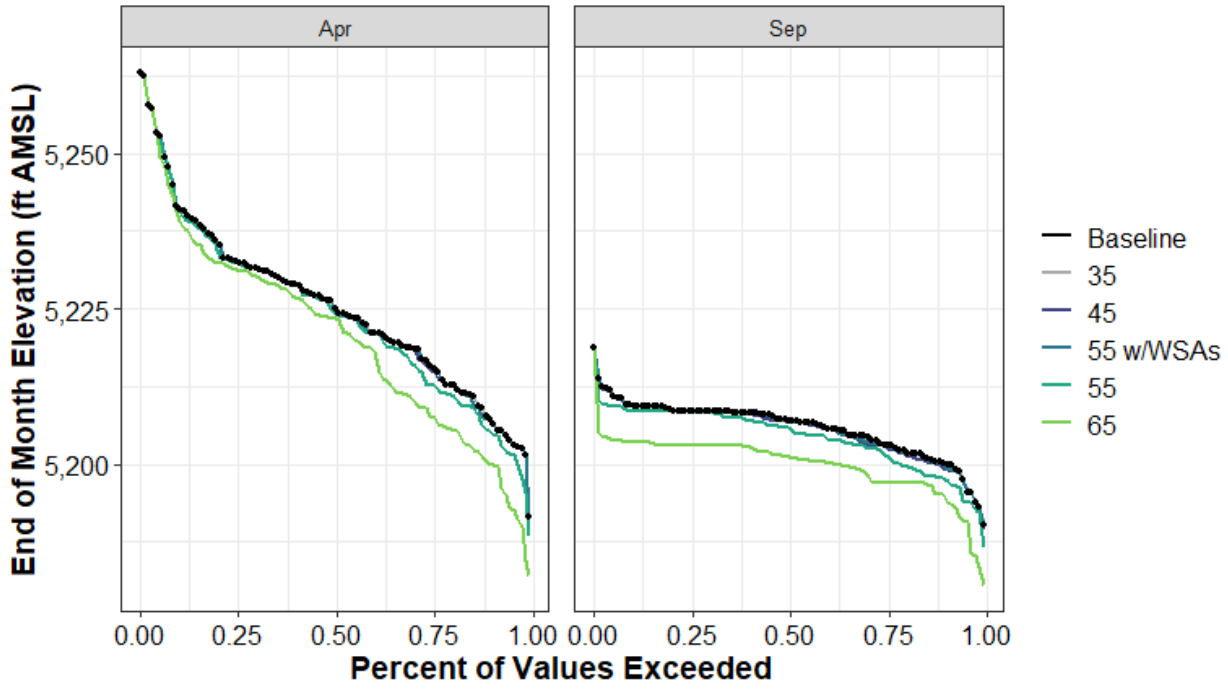

Figure H1a3-92. French Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-185. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-186. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-187. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for French Meadows

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-188. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for French Meadows

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.15 Frenchman Lake (Feather River Watershed)

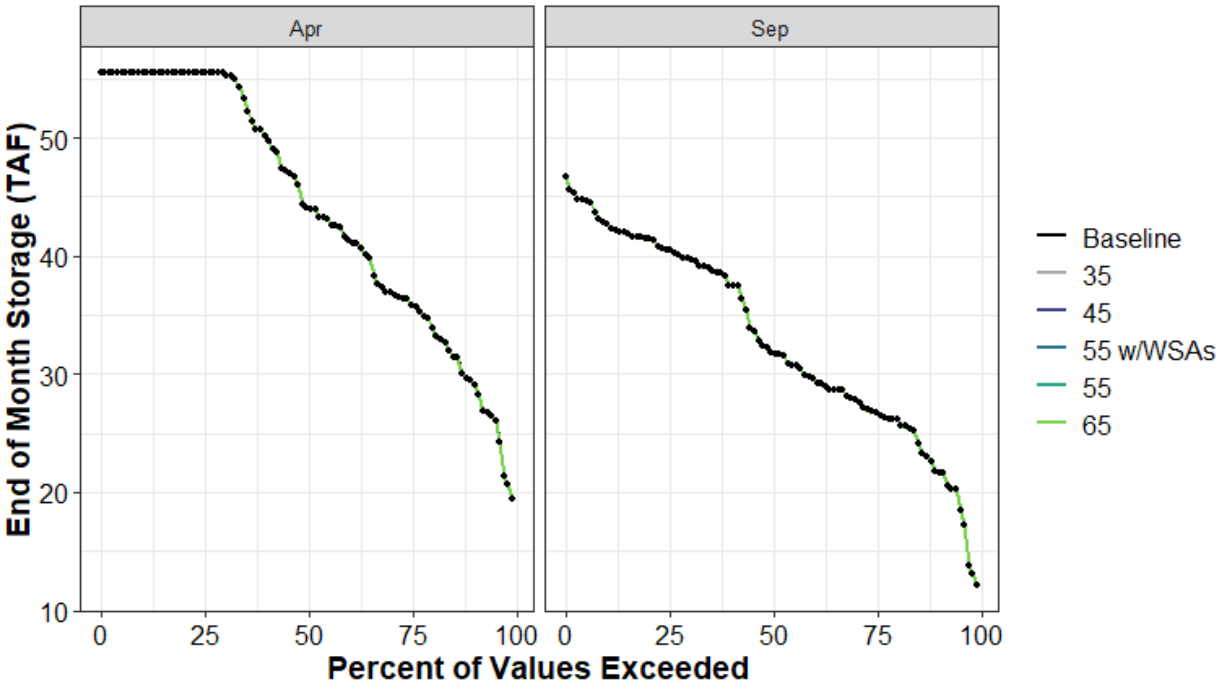

Figure H1a3-93. Frenchman Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

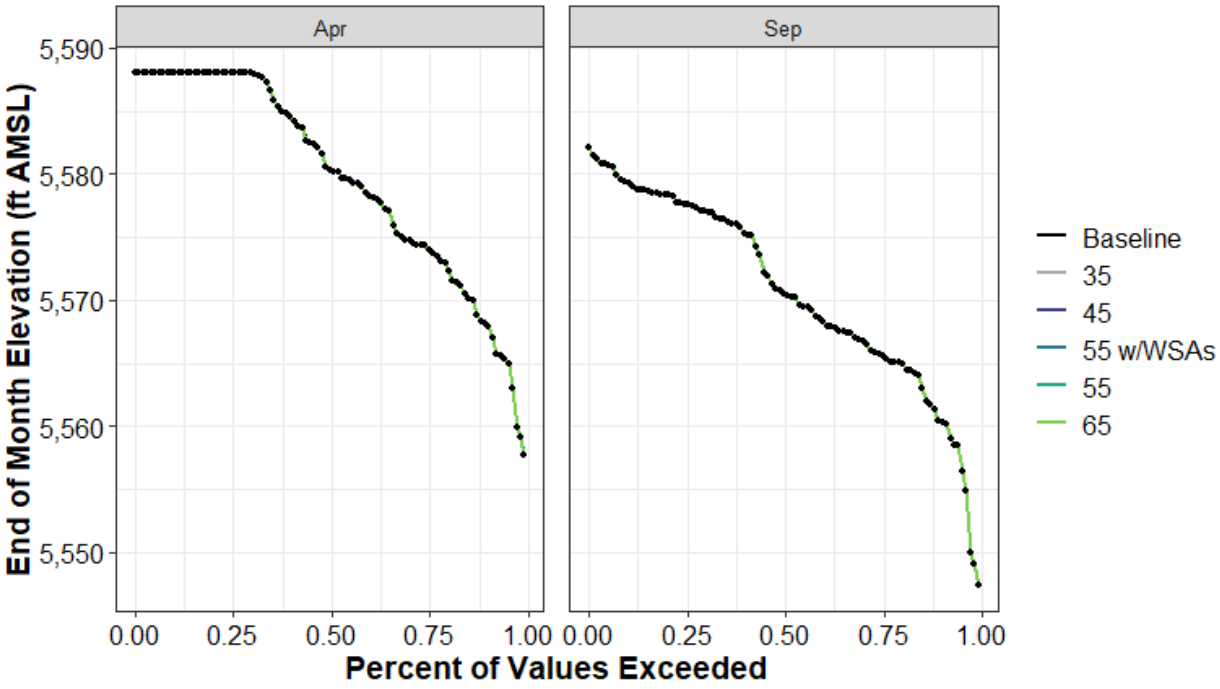

Figure H1a3-94. Frenchman Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-189. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-190. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-191. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-192. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Frenchman Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.16 Hell Hole (American River Watershed)

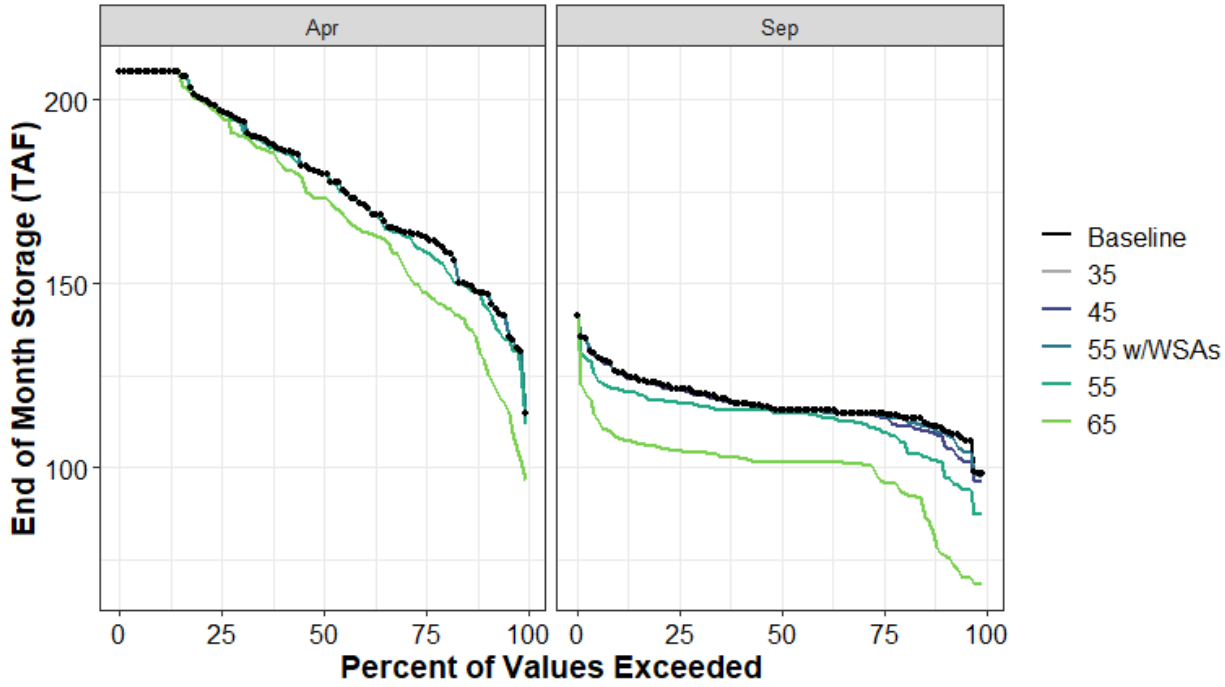

Figure H1a3-95. Hell Hole End of April and End of September Storage (TAF) Percent Exceedance Plot

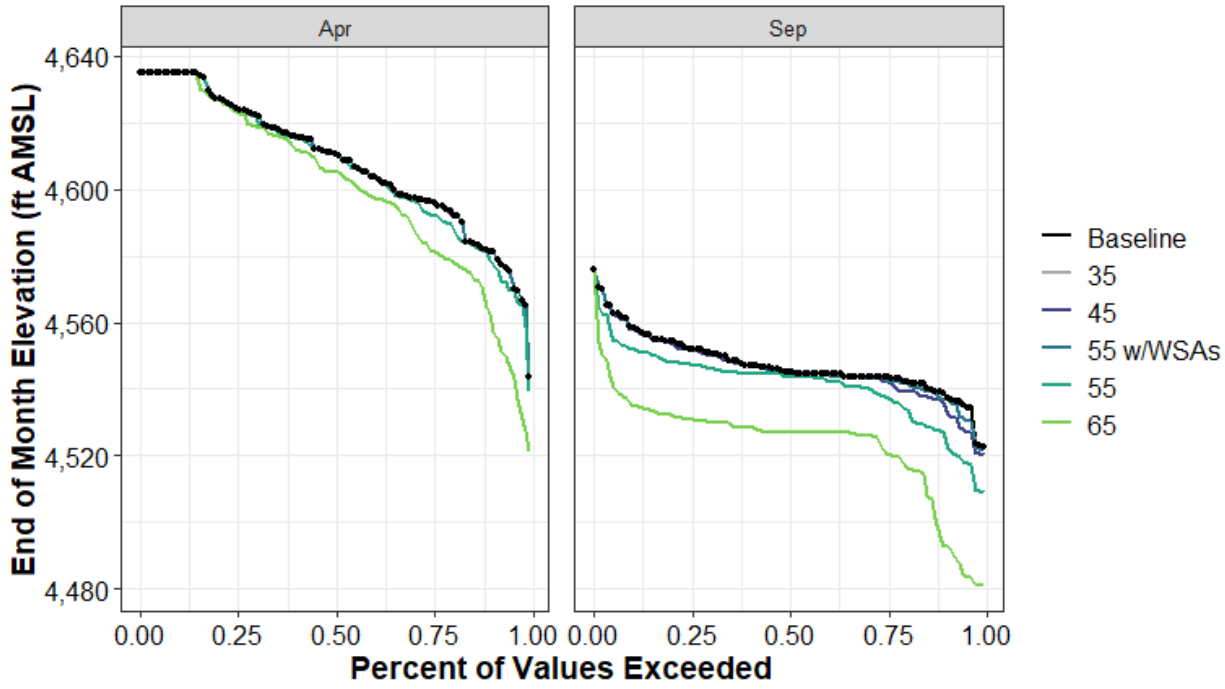

Figure H1a3-96. Hell Hole Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-193. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-194. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35	45	55 w/WSAs	55	65
0%	4,523	0	-3	-1	-14	-42
10%	4,538	-1	-3	-1	-12	-46
25%	4,543	0	-1	-1	-6	-23
50%	4,545	0	0	0	-1	-18
75%	4,552	0	0	0	-5	-21
90%	4,558	0	0	0	-6	-23
100%	4,576	0	0	0	0	0
Mean	4,547	0	-1	0	-6	-24

Table H1a3-195. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Hell Hole

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-196. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Hell Hole

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.17 Ice House (American River Watershed)

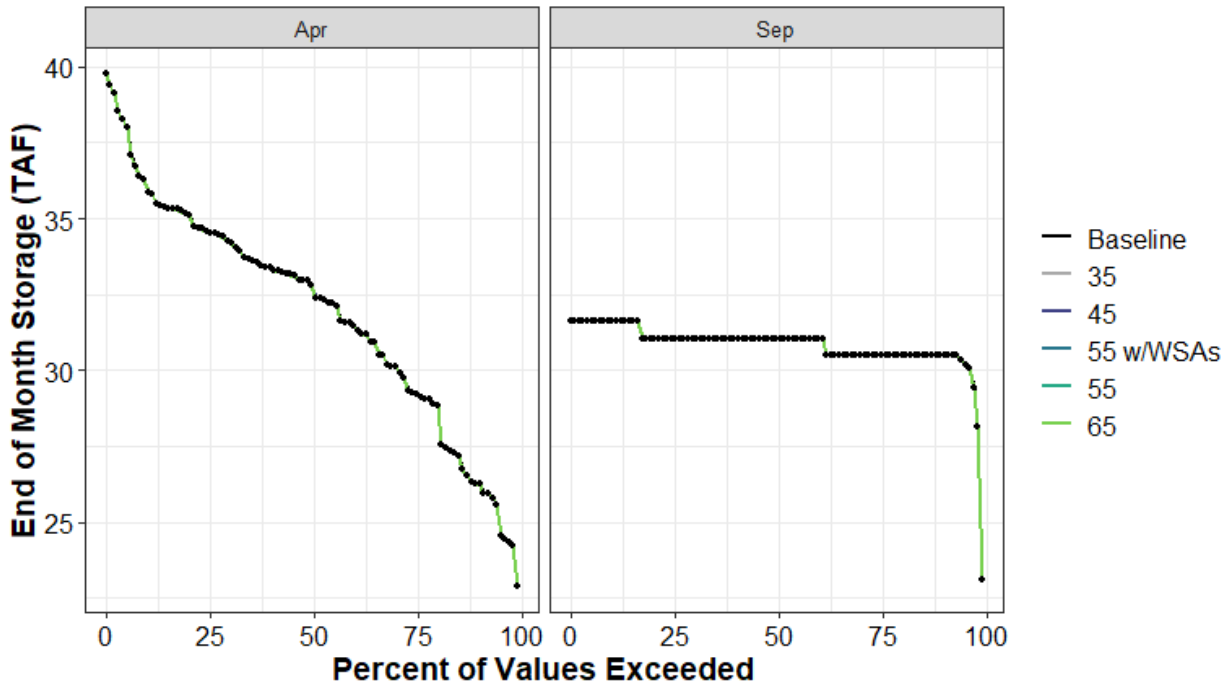

Figure H1a3-97. Ice House End of April and End of September Storage (TAF) Percent Exceedance Plot

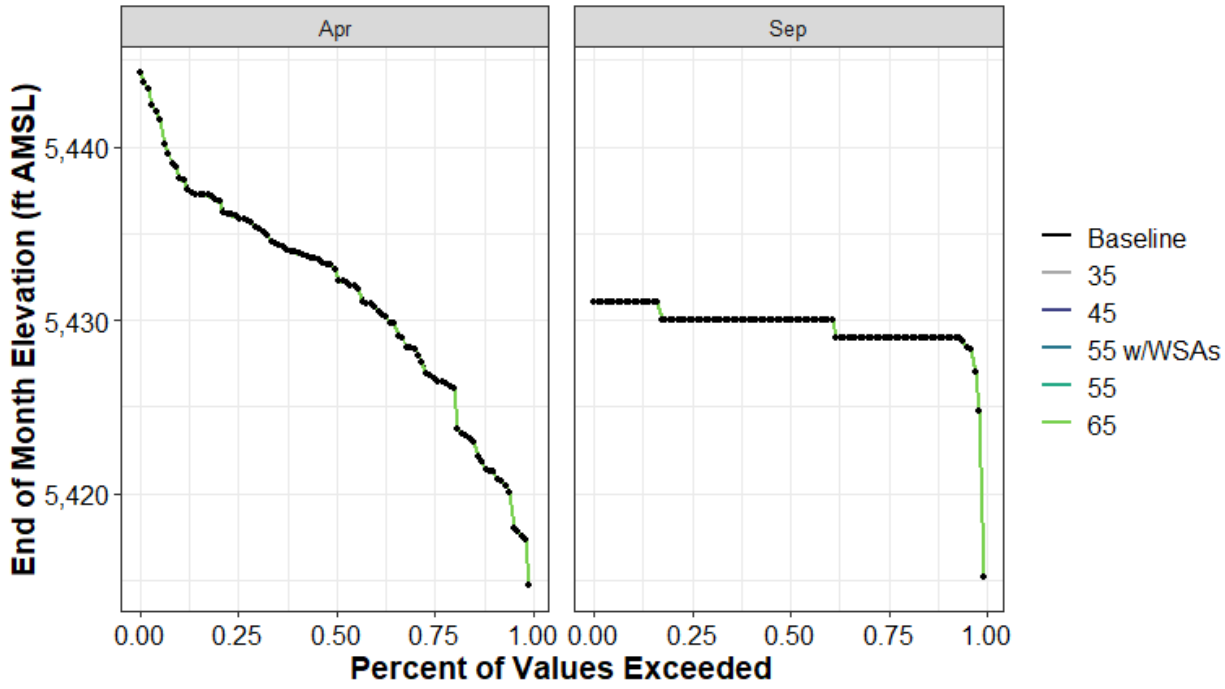

Figure H1a3-98. Ice House Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-197. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-198. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-199. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Ice House

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-200. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Ice House

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.18 Indian Valley Reservoir (Cache Creek Watershed)

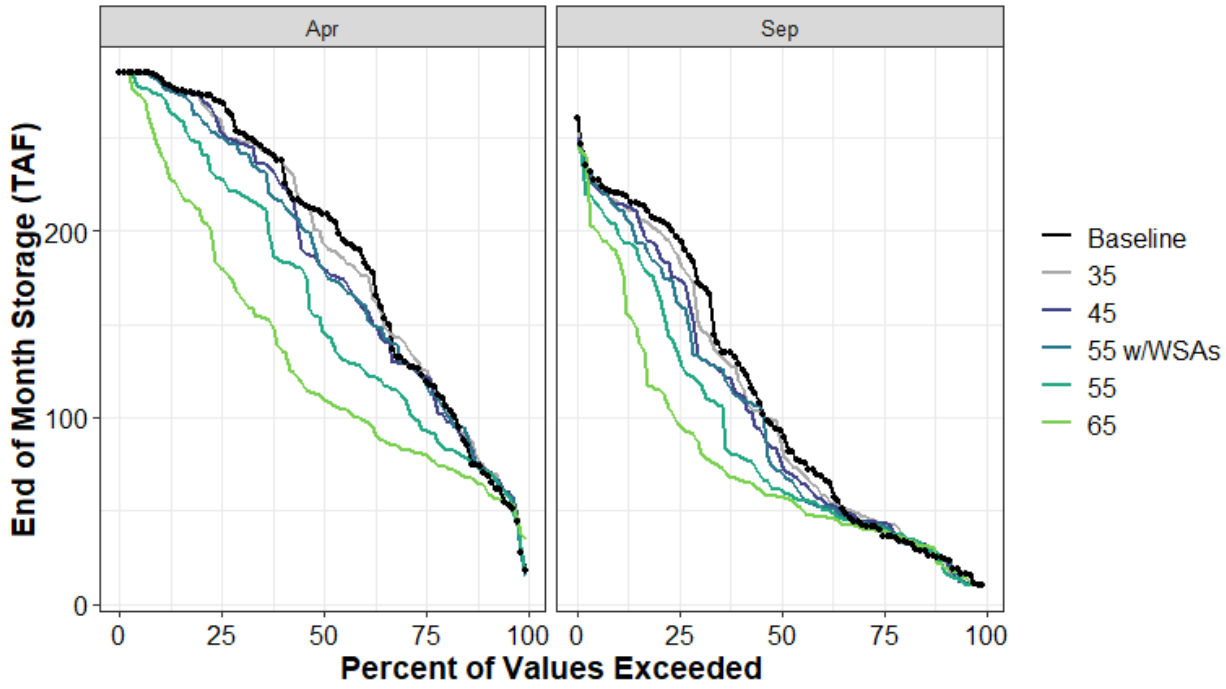

Figure H1a3-99. Indian Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

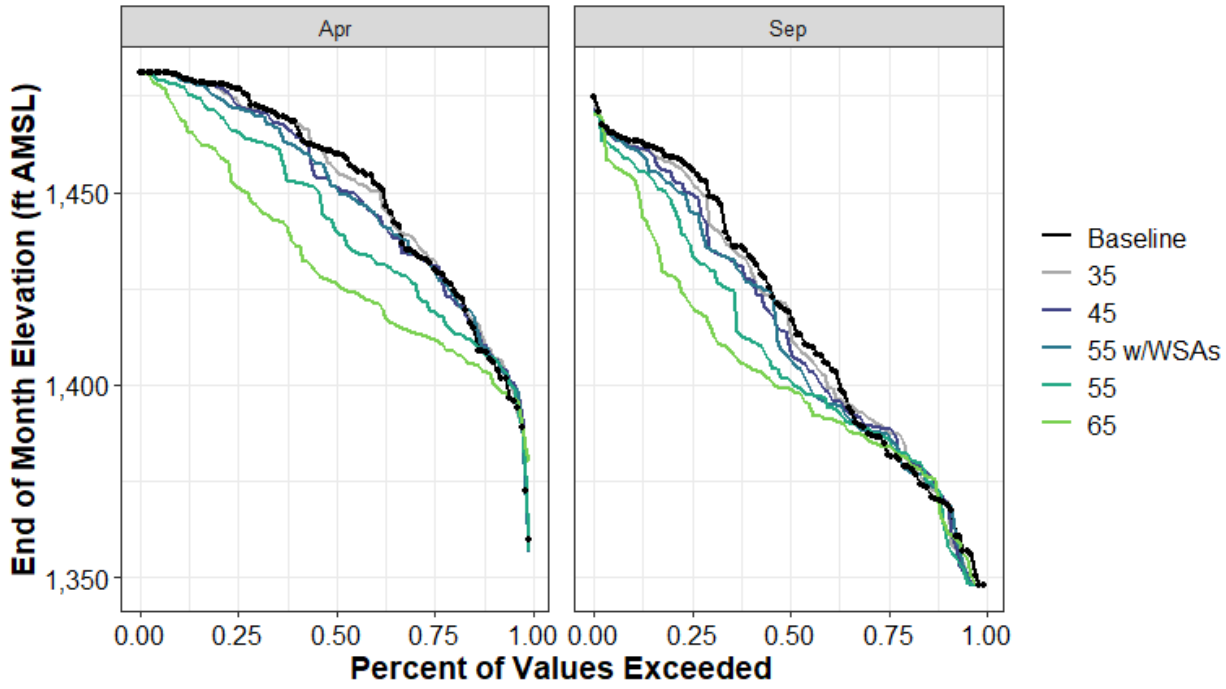

Figure H1a3-100. Indian Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-201. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-202. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-203. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-204. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Indian Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	-5	-9	-9	-20	-34
75%	1,477	-3	-4	-5	-11	-26
90%	1,480	0	0	-1	-2	-11
100%	1,481	0	0	0	0	0
Mean	1,451	0	-2	-3	-9	-19

H1a3.5.19 Jackson Meadows Reservoir (Yuba River Watershed)

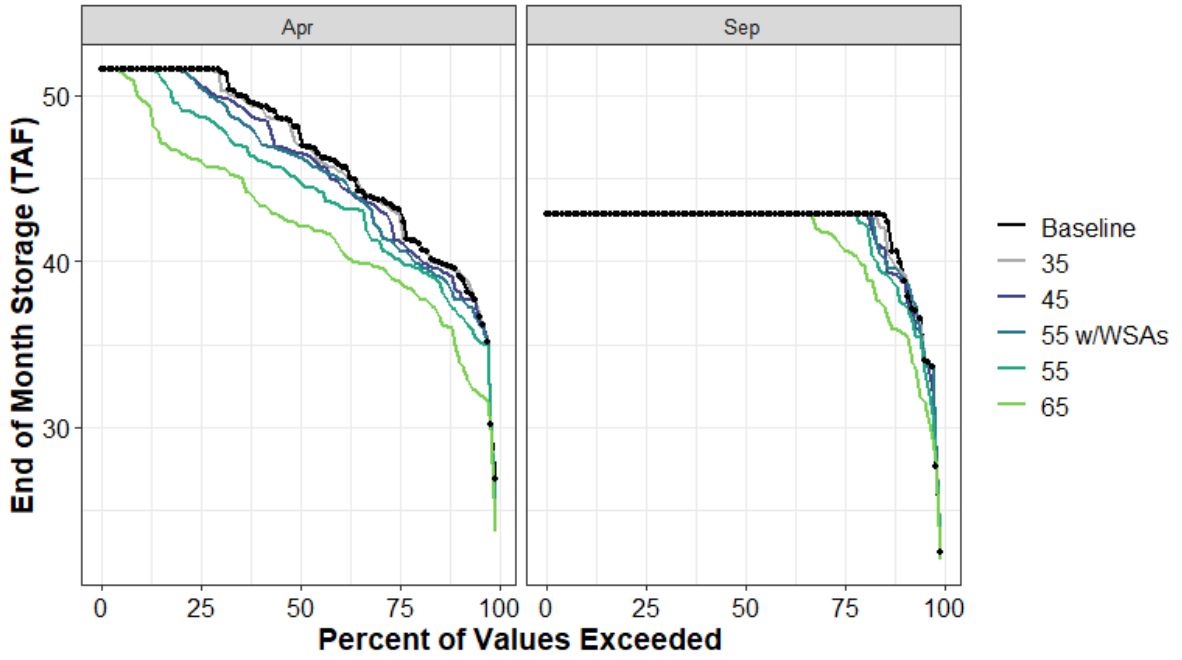

Figure H1a3-101. Jackson Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

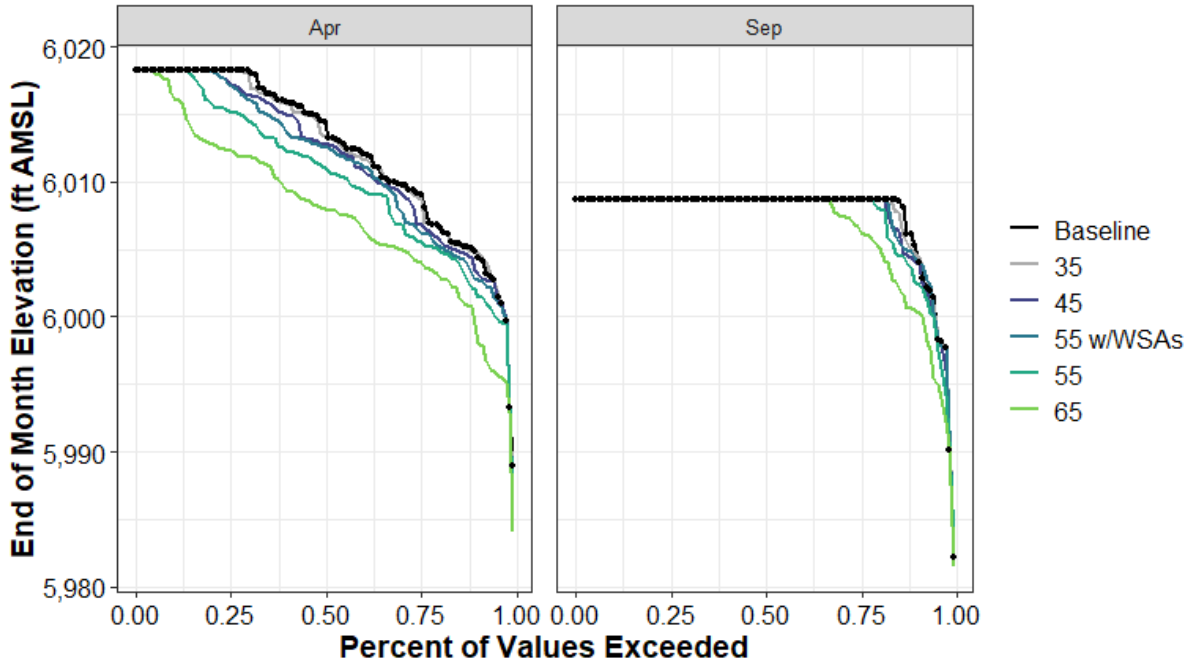

Figure H1a3-102. Jackson Meadows Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-205. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-206. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-207. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-208. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Jackson Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.20 Jenkinson Lake (Cosumnes River Watershed)

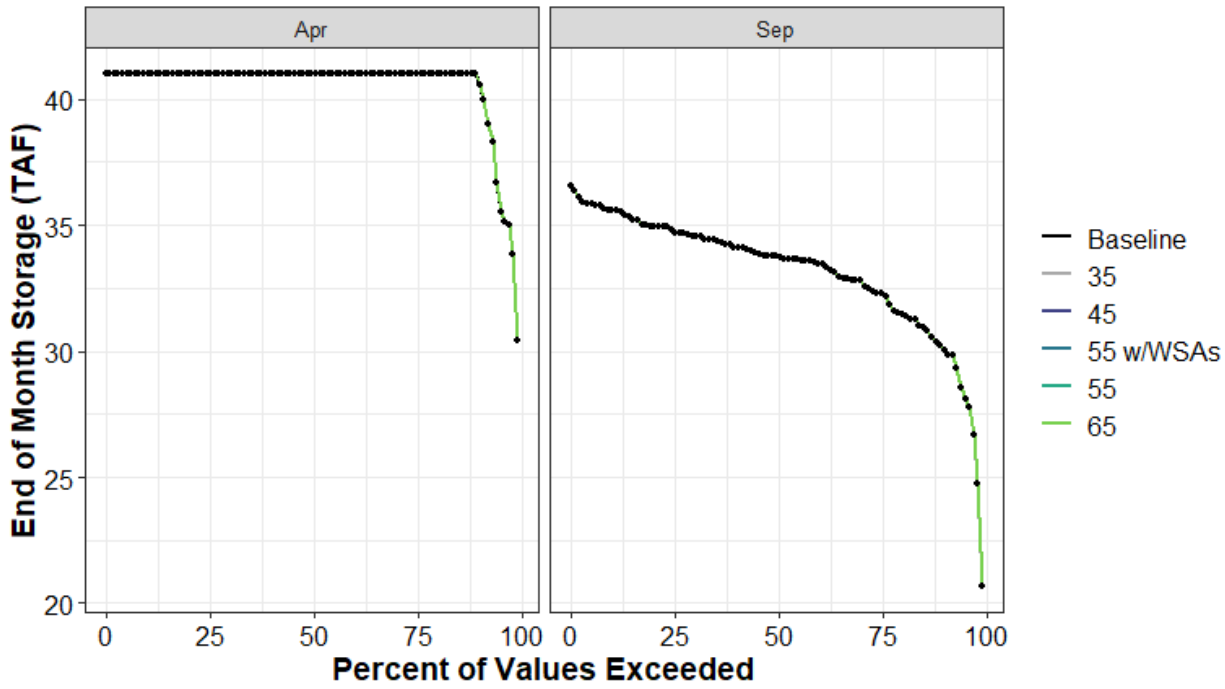

Figure H1a3-103. Jenkinson Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-209. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-210. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Jenkinson Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.21 Lake Almanor (Feather River Watershed)

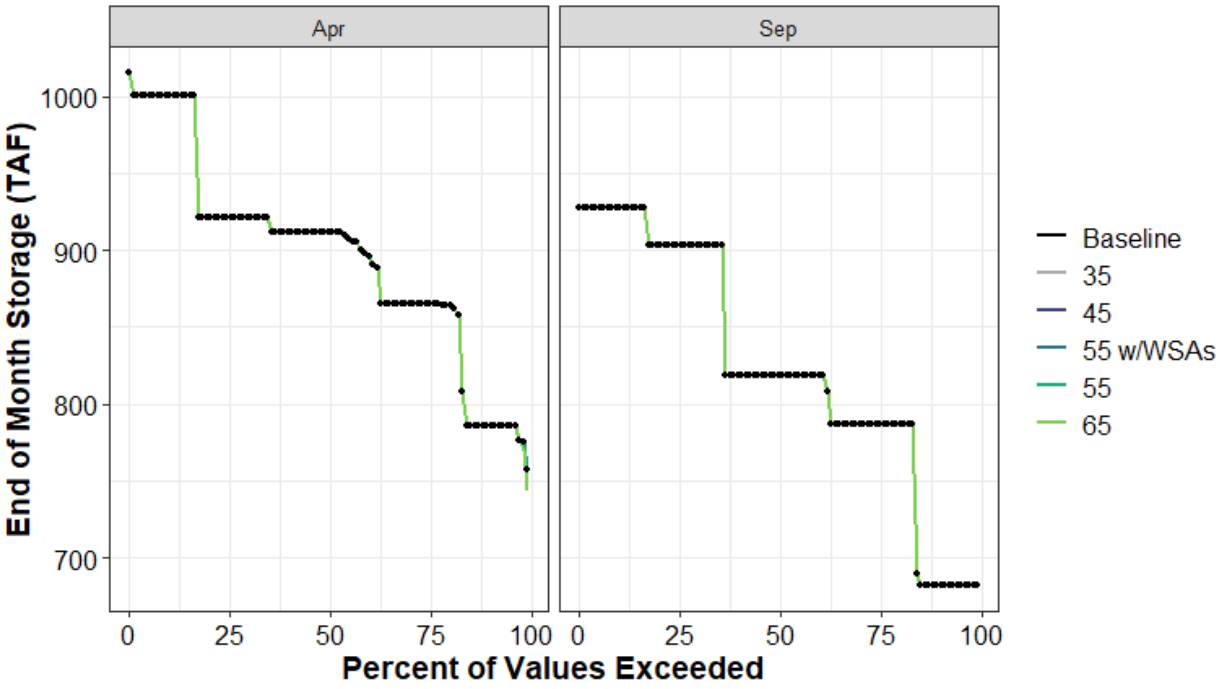

Figure H1a3-104. Lake Almanor End of April and End of September Storage (TAF) Percent Exceedance Plot

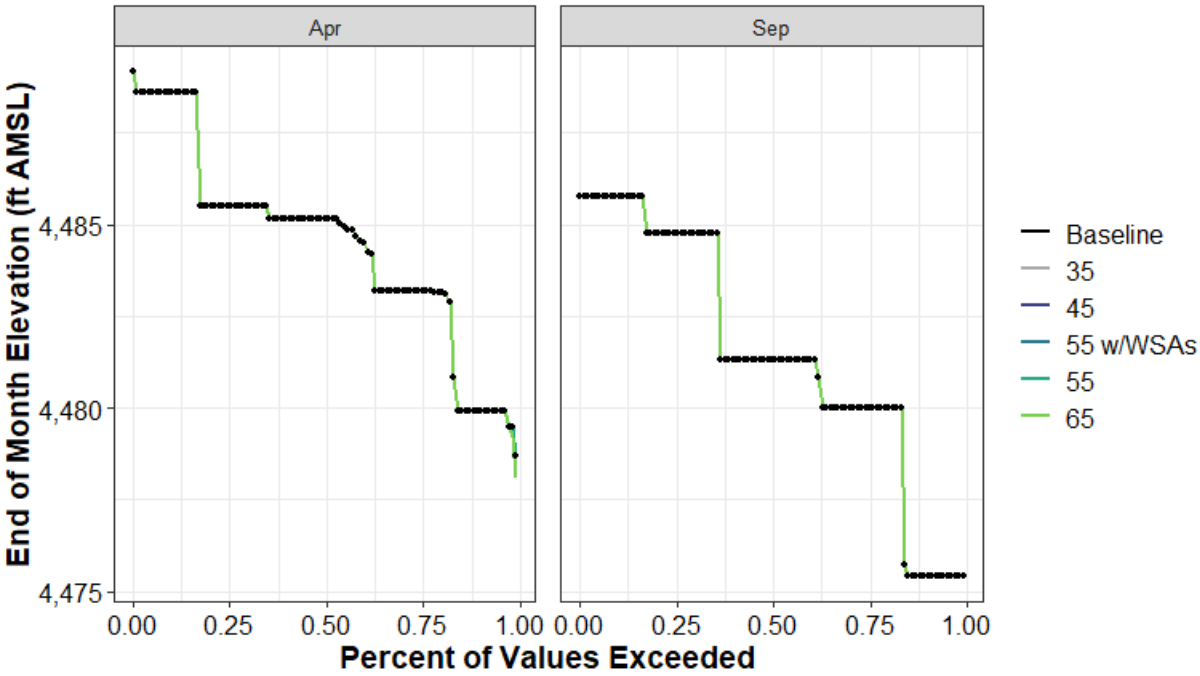

Figure H1a3-105. Lake Almanor Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-211. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-212. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-213. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-214. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Almanor

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.22 Lake Aloha (American River Watershed)

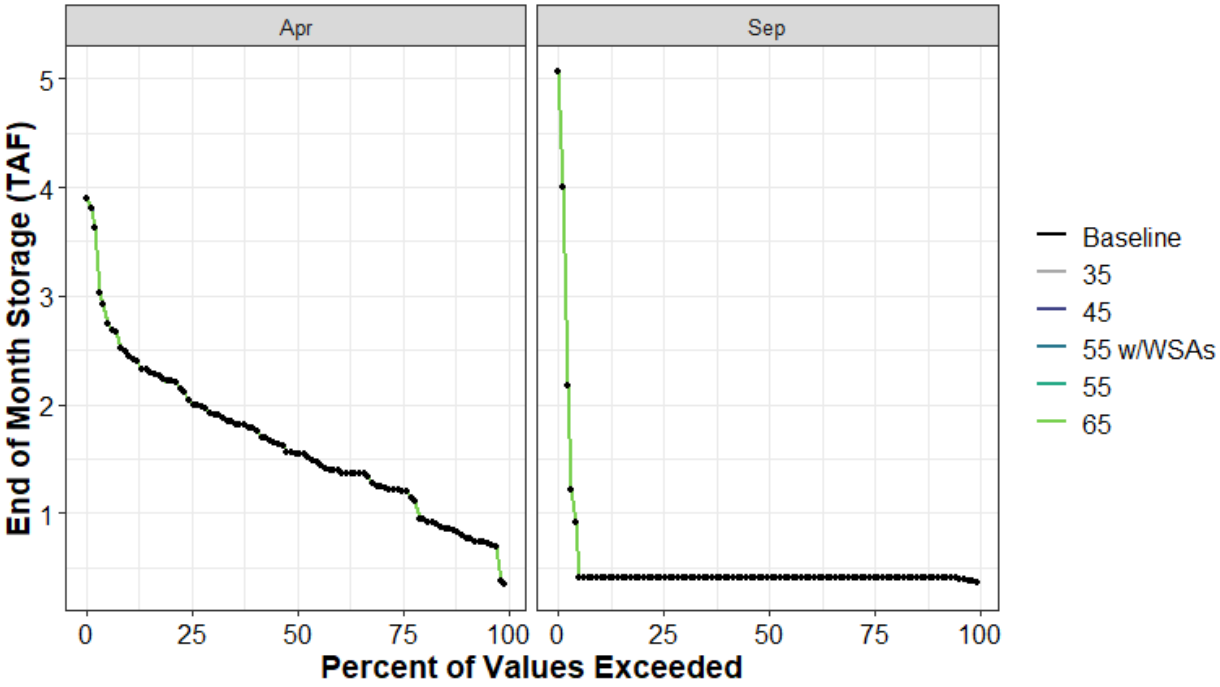

Figure H1a3-106. Lake Aloha End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-215. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-216. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Aloha

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.23 Lake Amador (Mokelumne River Watershed)

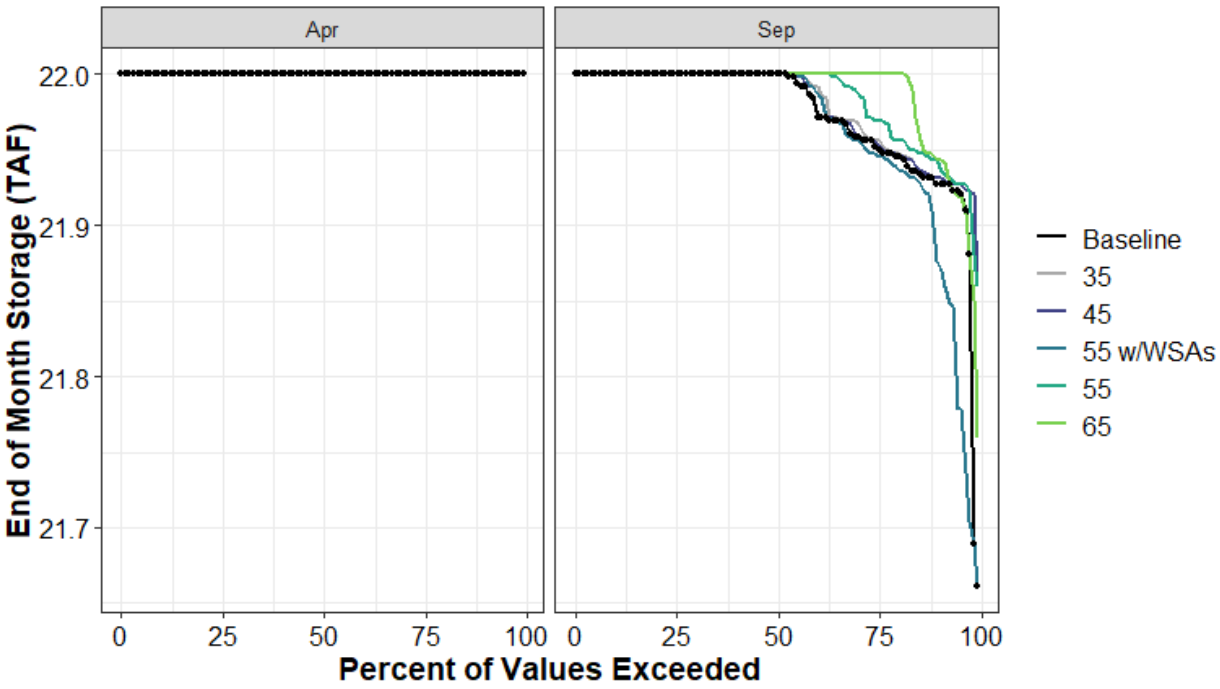

Figure H1a3-107. Lake Amador End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-217. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-218. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Amador

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.24 Lake Berryessa (Putah Creek Watershed)

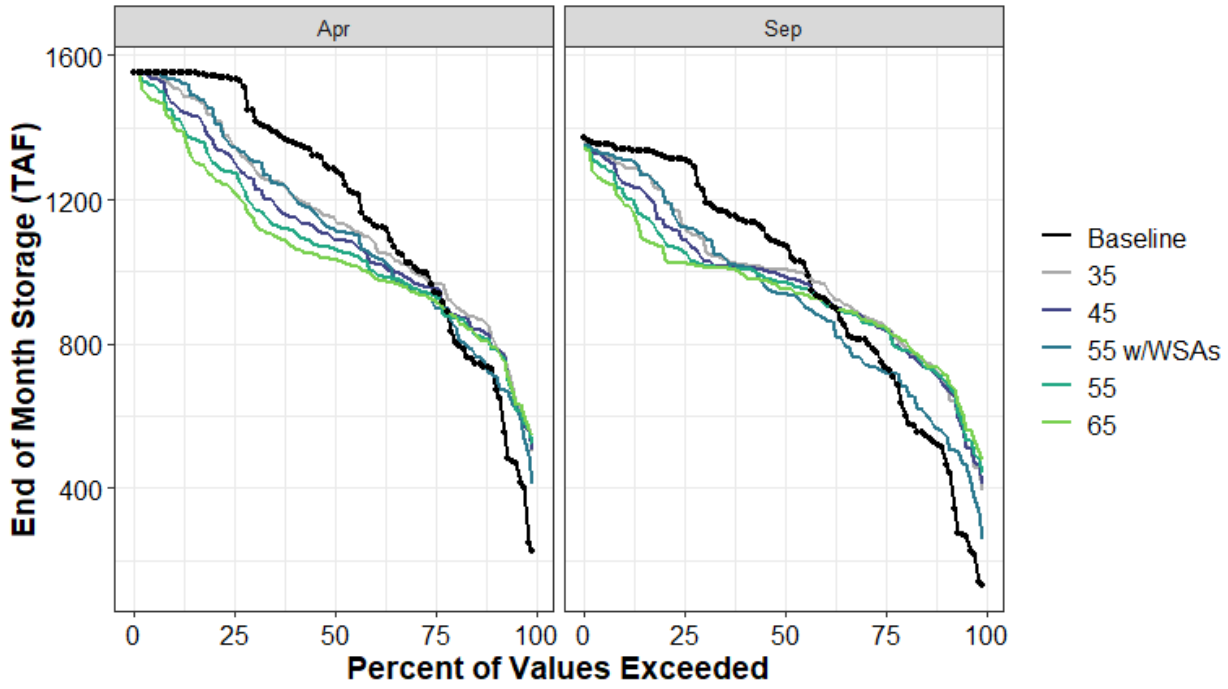

Figure H1a3-108. Lake Berryessa End of April and End of September Storage (TAF) Percent Exceedance Plot

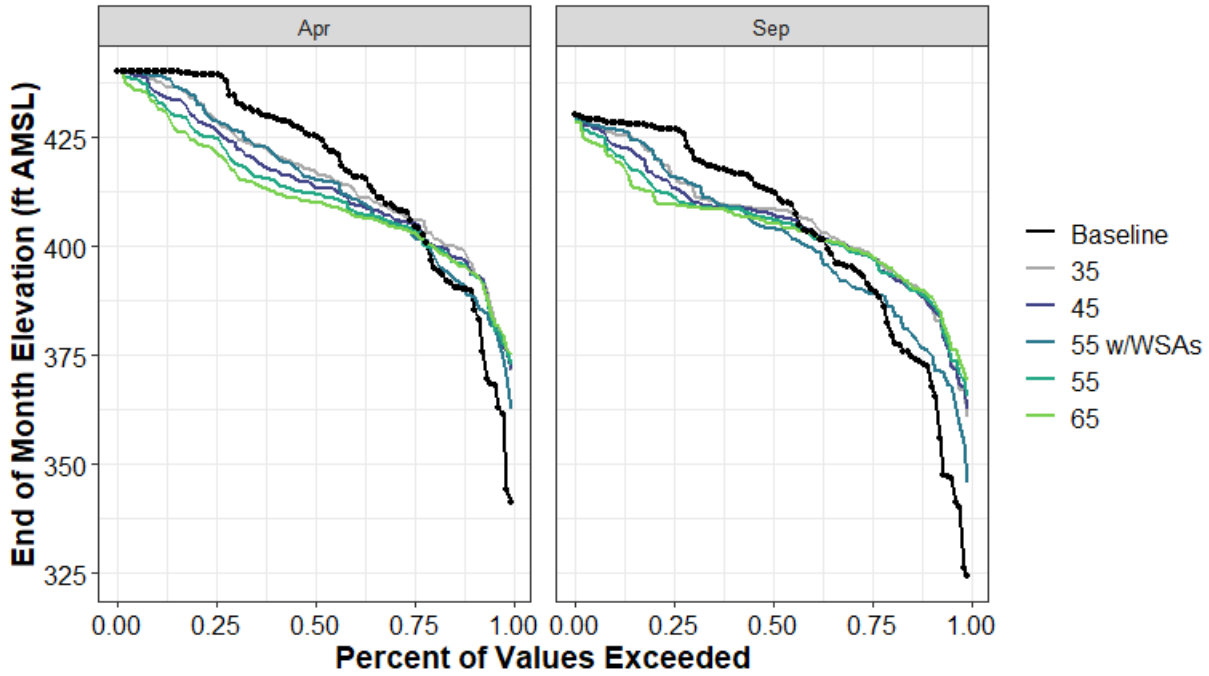

Figure H1a3-109. Lake Berryessa Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-219. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35	45	55 w/WSAs	55	65
0%	130	262	281	129	310	348
10%	505	188	184	50	200	217
25%	744	109	100	-20	102	106
50%	1,073	-67	-84	-135	-102	-120
75%	1,312	-188	-222	-189	-257	-289
90%	1,342	-49	-96	-31	-129	-154
100%	1,370	-9	-15	-14	-20	-26
Mean	969	14	-7	-43	-20	-28

Table H1a3-220. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35	45	55 w/WSAs	55	65
0%	324	36	38	21	41	45
10%	372	15	15	4	16	18
25%	391	8	7	-1	7	7
50%	413	-4	-5	-8	-6	-8
75%	427	-11	-13	-11	-15	-17
90%	428	-3	-5	-2	-7	-9
100%	430	0	-1	-1	-1	-1
Mean	403	3	1	-2	1	0

Table H1a3-221. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35	45	55 w/WSAs	55	65
0%	227	276	280	183	295	319
10%	720	95	66	-3	66	69
25%	955	13	0	-44	-19	-31
50%	1,286	-134	-199	-166	-221	-253
75%	1,536	-188	-228	-192	-261	-315
90%	1,551	-43	-87	-19	-121	-146
100%	1,551	0	0	0	0	0
Mean	1,178	-32	-70	-59	-99	-120

Table H1a3-222. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Berryessa

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.25 Lake Davis (Feather River Watershed)

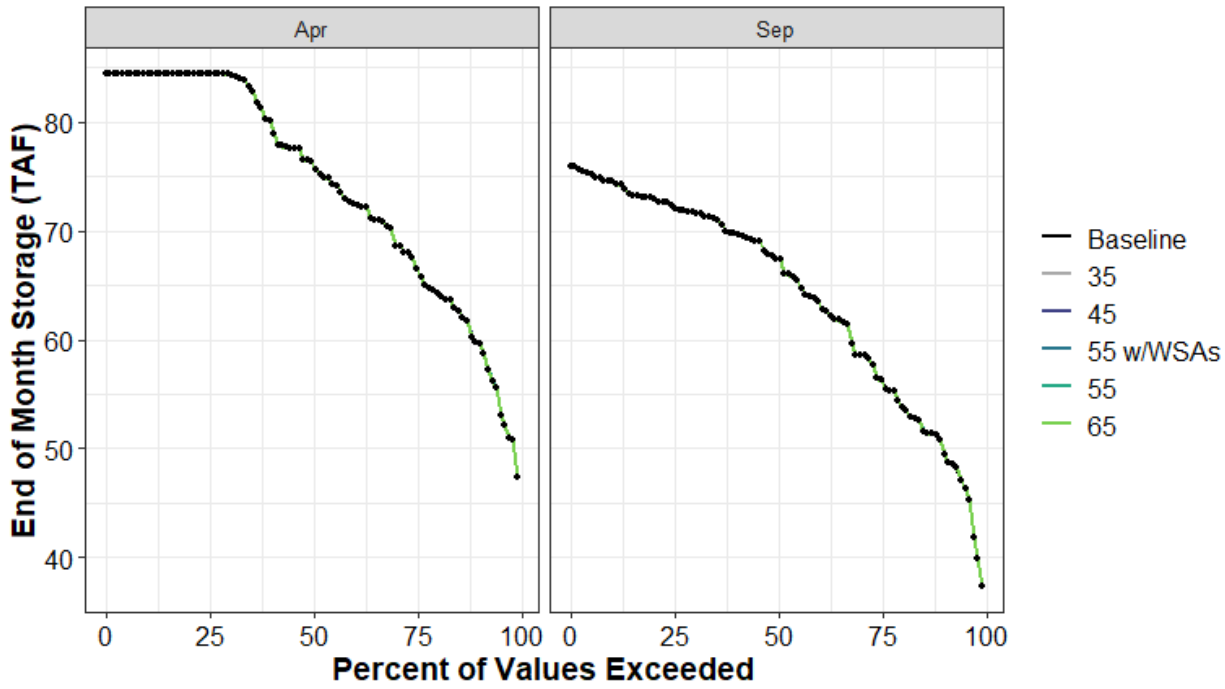

Figure H1a3-110. Lake Davis End of April and End of September Storage (TAF) Percent Exceedance Plot

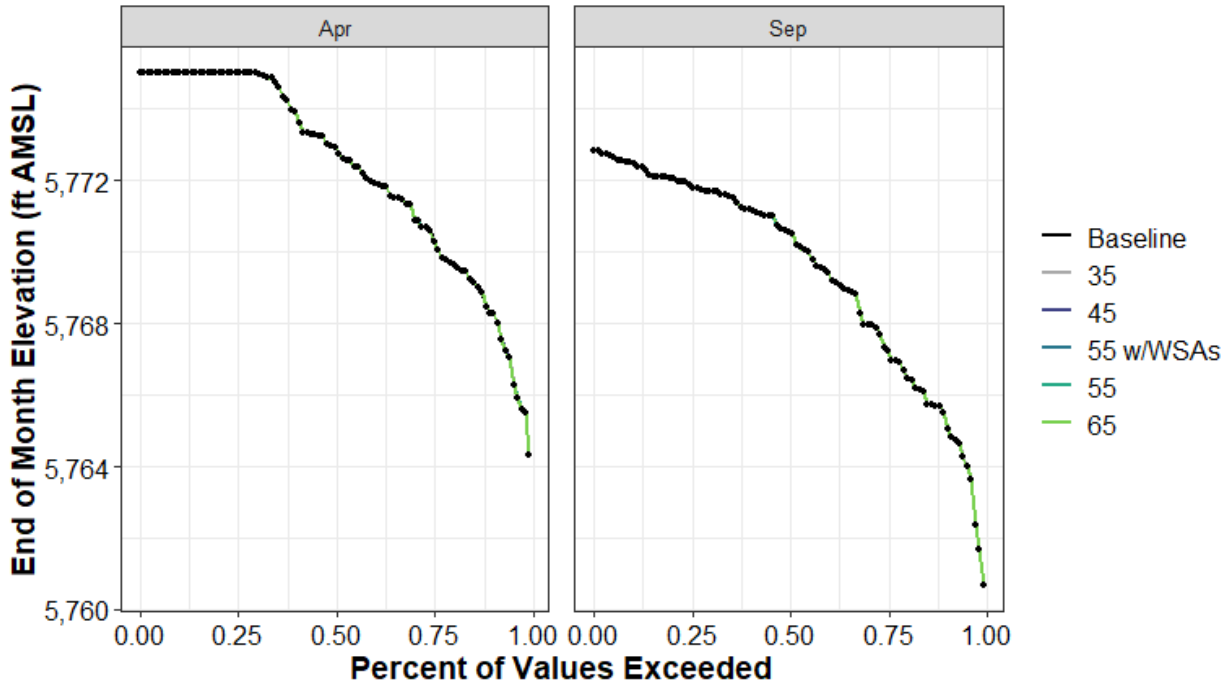

Figure H1a3-111. Lake Davis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-223. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-224. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-225. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Davis

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-226. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Davis

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.26 Lake Fordyce (Yuba River Watershed)

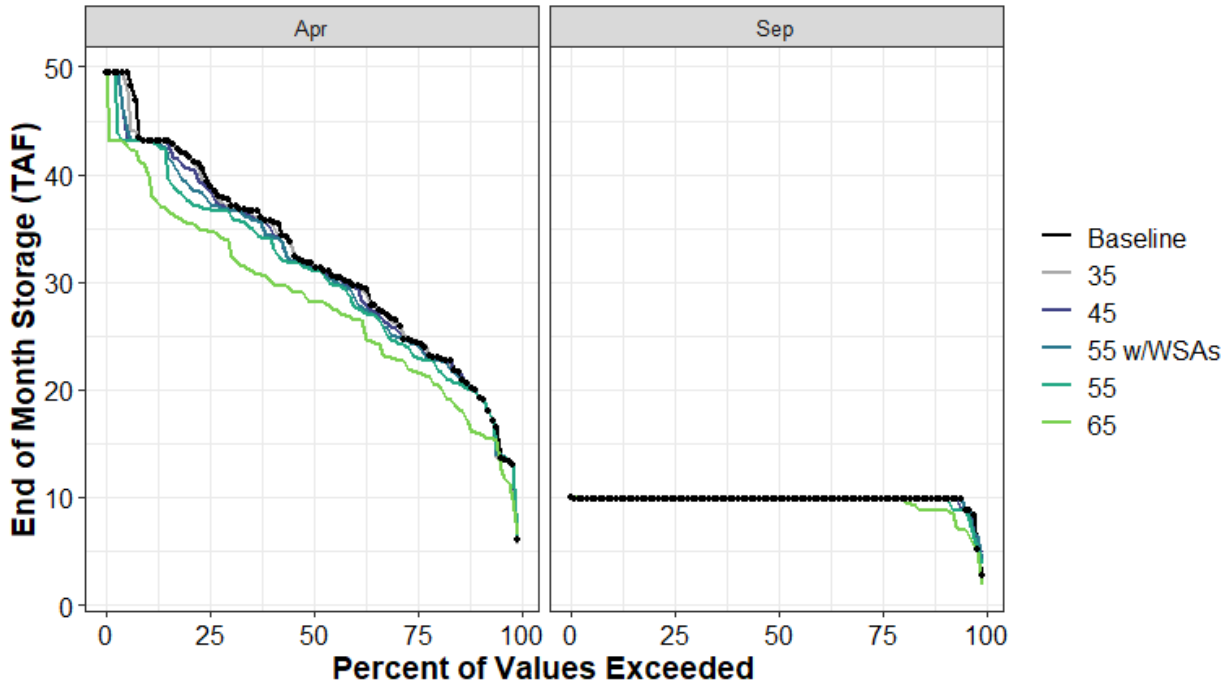

Figure H1a3-112. Lake Fordyce End of April and End of September Storage (TAF) Percent Exceedance Plot

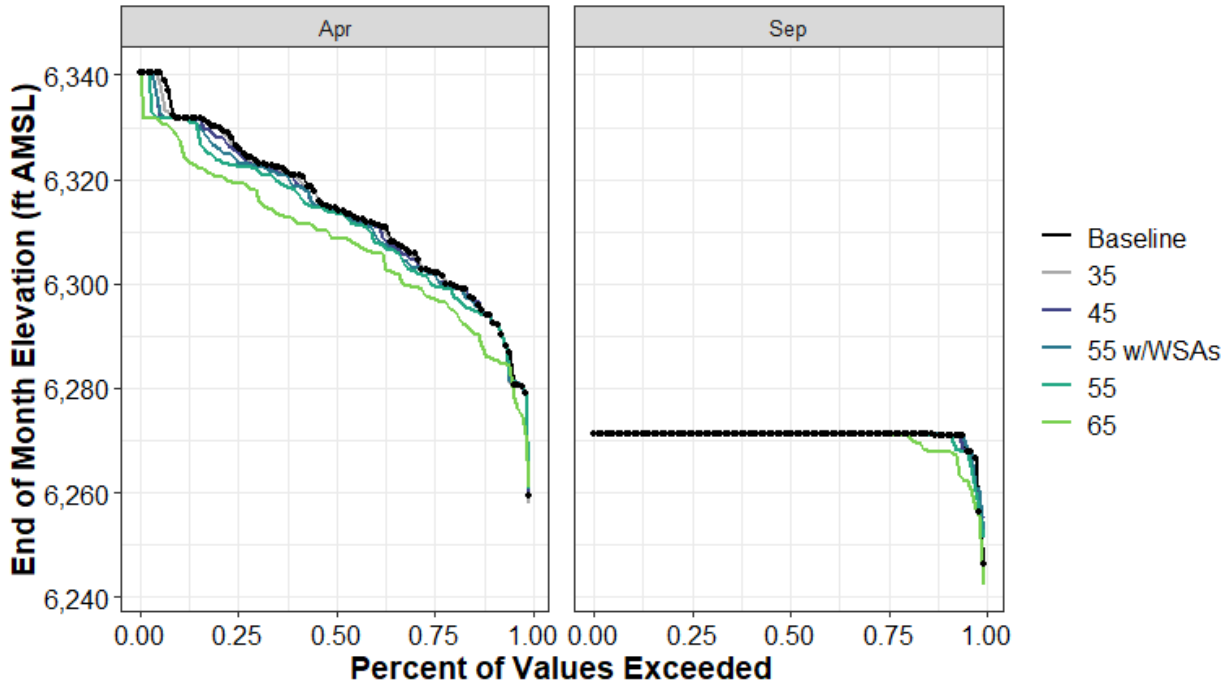

Figure H1a3-113. Lake Fordyce Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-227. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-228. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-229. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35	45	55 w/WSAs	55	65
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	-1	-4

Table H1a3-230. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Fordyce

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.27 Lake Spaulding (Yuba River Watershed)

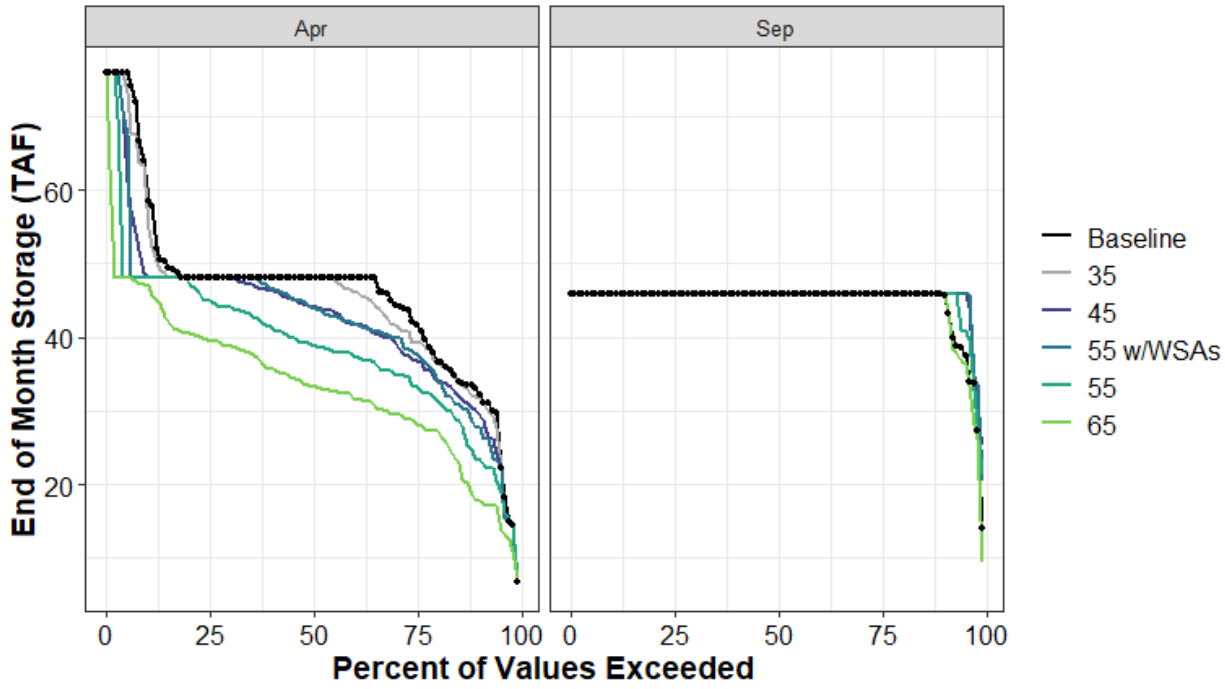

Figure H1a3-114. Lake Spaulding End of April and End of September Storage (TAF) Percent Exceedance Plot

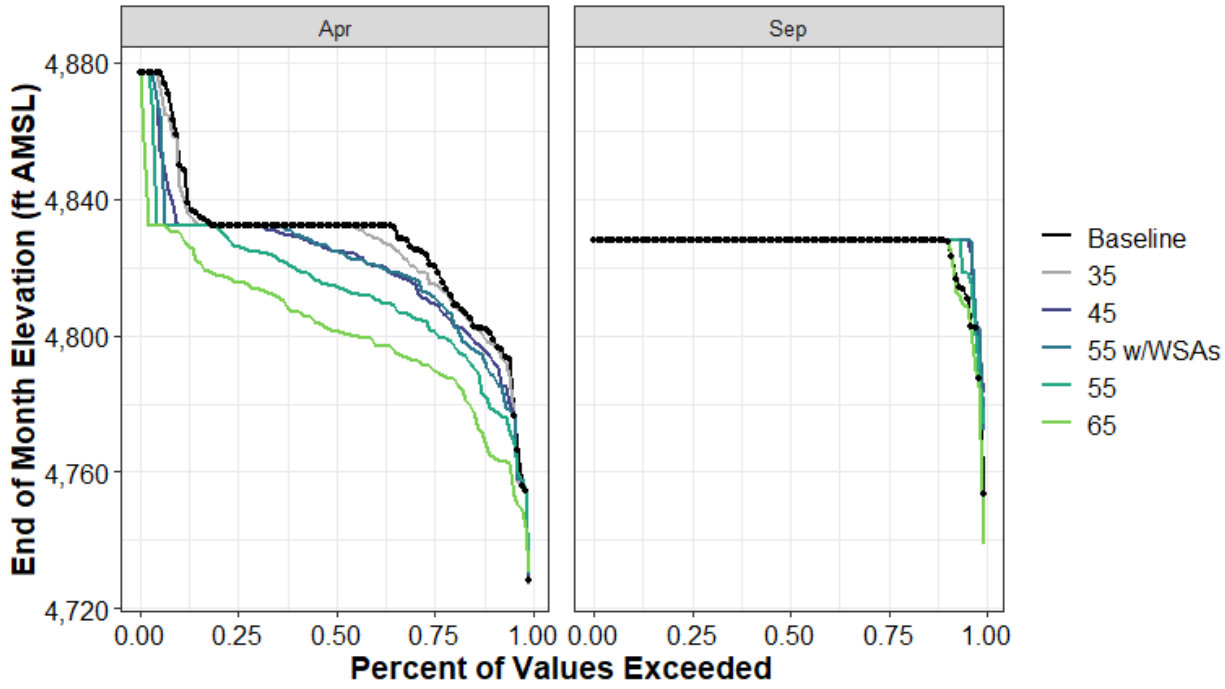

Figure H1a3-115. Lake Spaulding Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-231. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-232. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-233. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35	45	55 w/WSAs	55	65
0%	7	0	0	0	0	1
10%	33	-1	-3	-5	-9	-15
25%	42	-3	-5	-4	-9	-13
50%	48	0	-4	-4	-9	-15
75%	48	0	0	0	-3	-8
90%	60	-3	-11	-12	-12	-13
100%	76	0	0	0	0	0
Mean	46	-1	-4	-4	-7	-13

Table H1a3-234. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lake Spaulding

	Baseline	35	45	55 w/WSAs	55	65
0%	4,728	-2	0	2	2	2
10%	4,800	-2	-7	-11	-21	-36
25%	4,821	-6	-11	-9	-19	-30
50%	4,832	0	-7	-7	-18	-31
75%	4,832	0	0	0	-6	-16
90%	4,852	-5	-19	-20	-20	-21
100%	4,877	0	0	0	0	0
Mean	4,827	-2	-7	-7	-14	-26

H1a3.5.28 Lake Valley (American River Watershed)

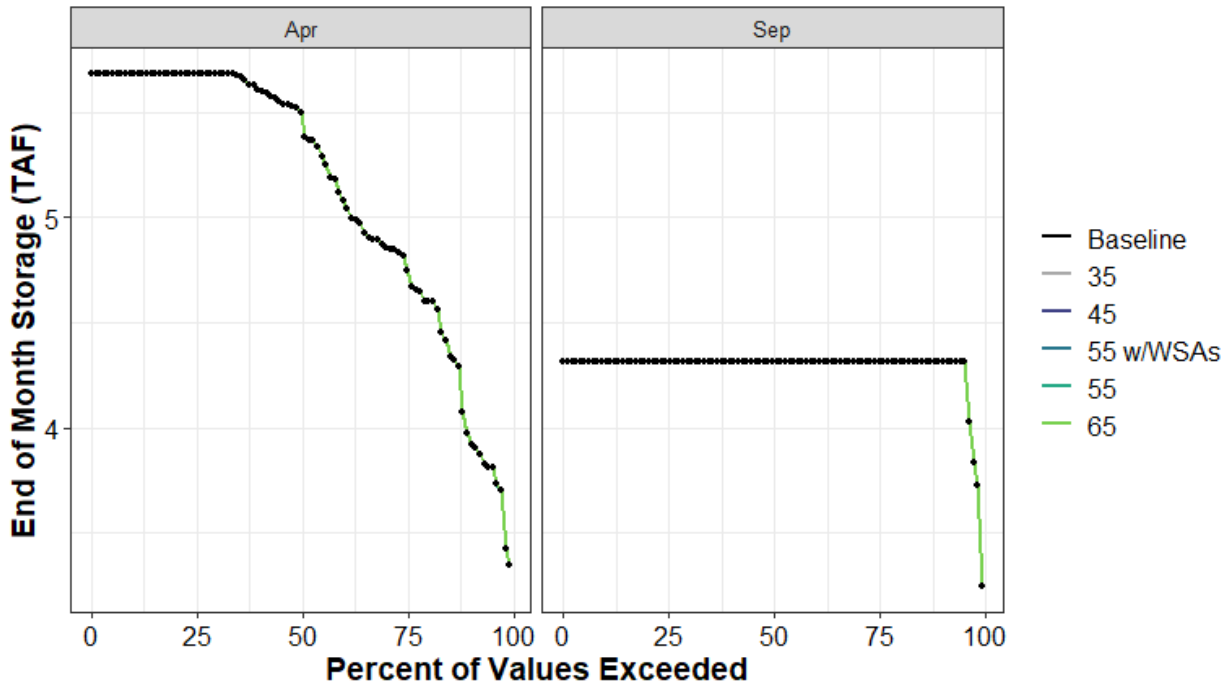

Figure H1a3-116. Lake Valley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-235. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-236. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lake Valley

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.29 Little Grass Valley Reservoir (Feather River Watershed)

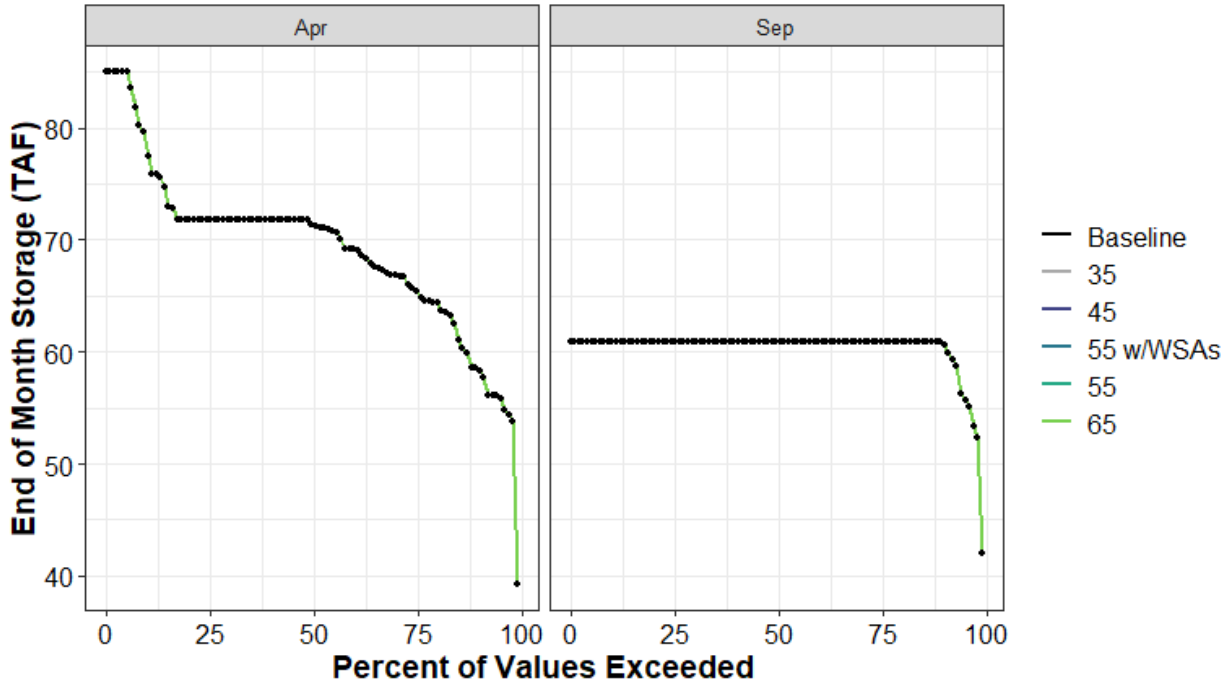

Figure H1a3-117. Little Grass Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

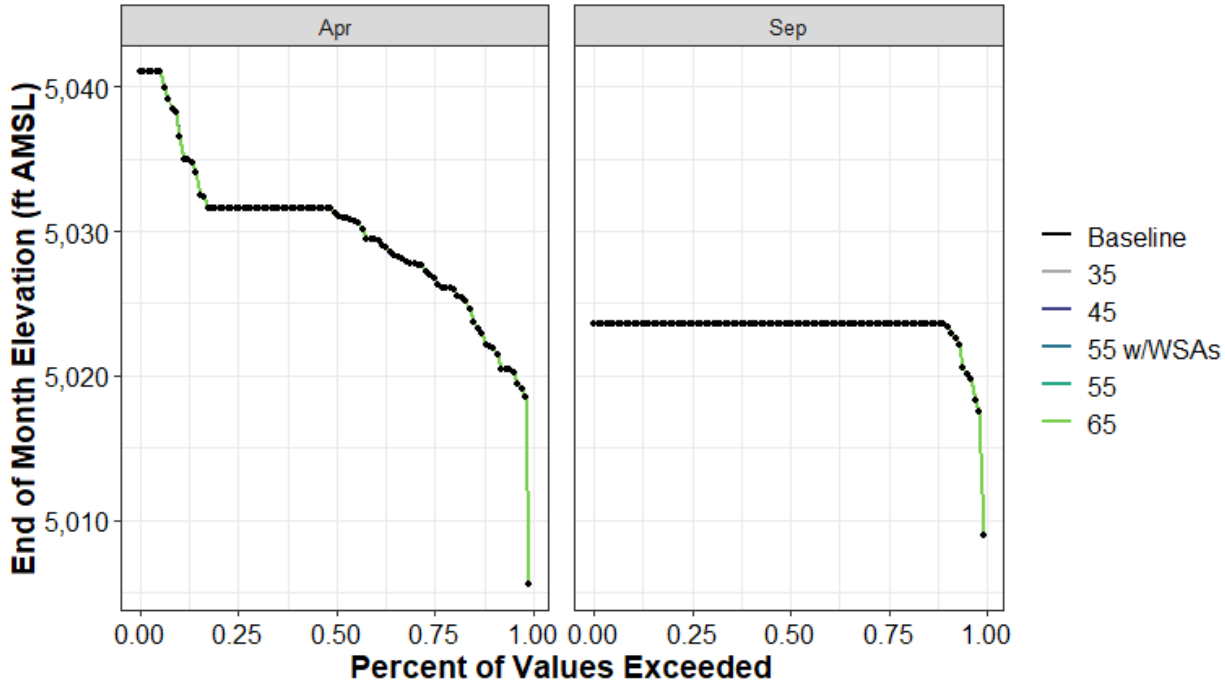

Figure H1a3-118. Little Grass Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-237. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-238. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-239. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-240. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Little Grass Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.30 Loon Lake (American River Watershed)

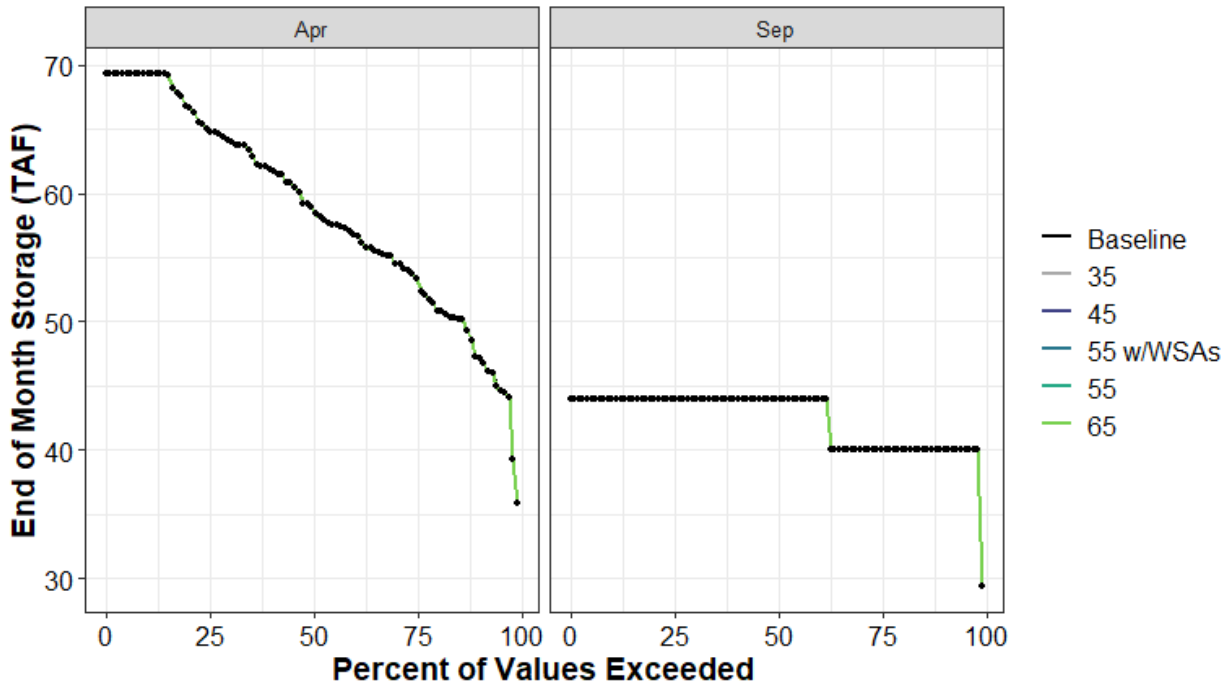

Figure H1a3-119. Loon Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

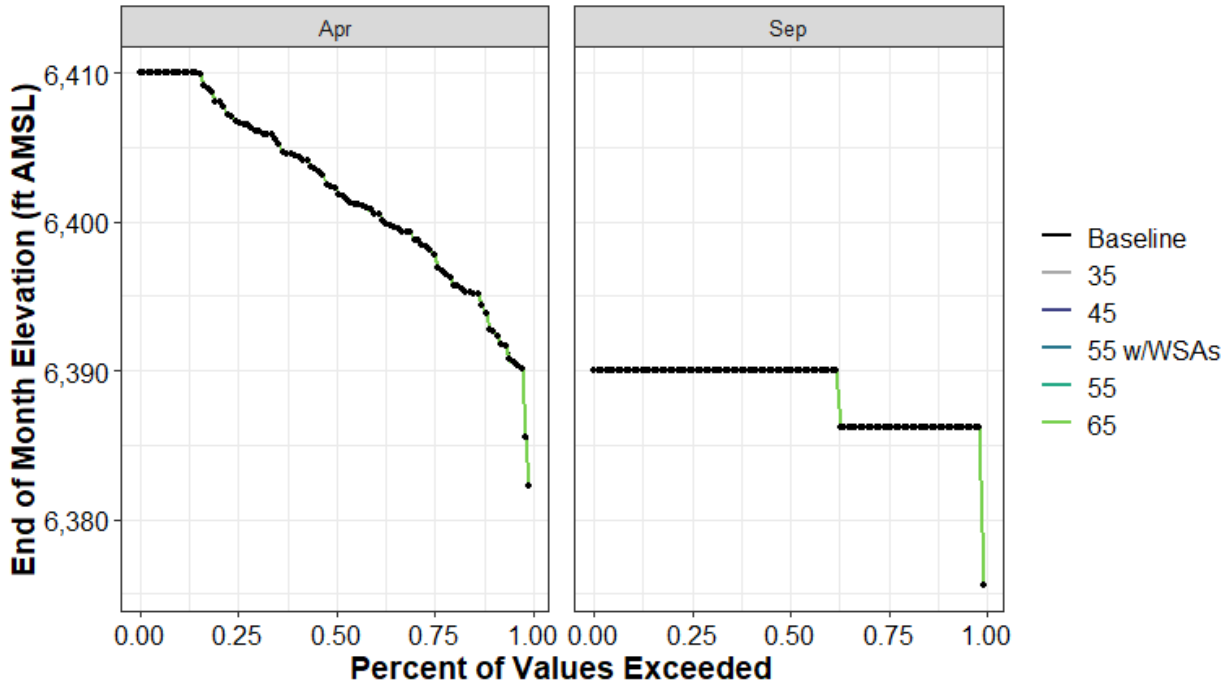

Figure H1a3-120. Loon Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-241. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-242. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-243. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Loon Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-244. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Loon Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.31 Los Vaqueros Reservoir (Kellogg Creek Watershed)

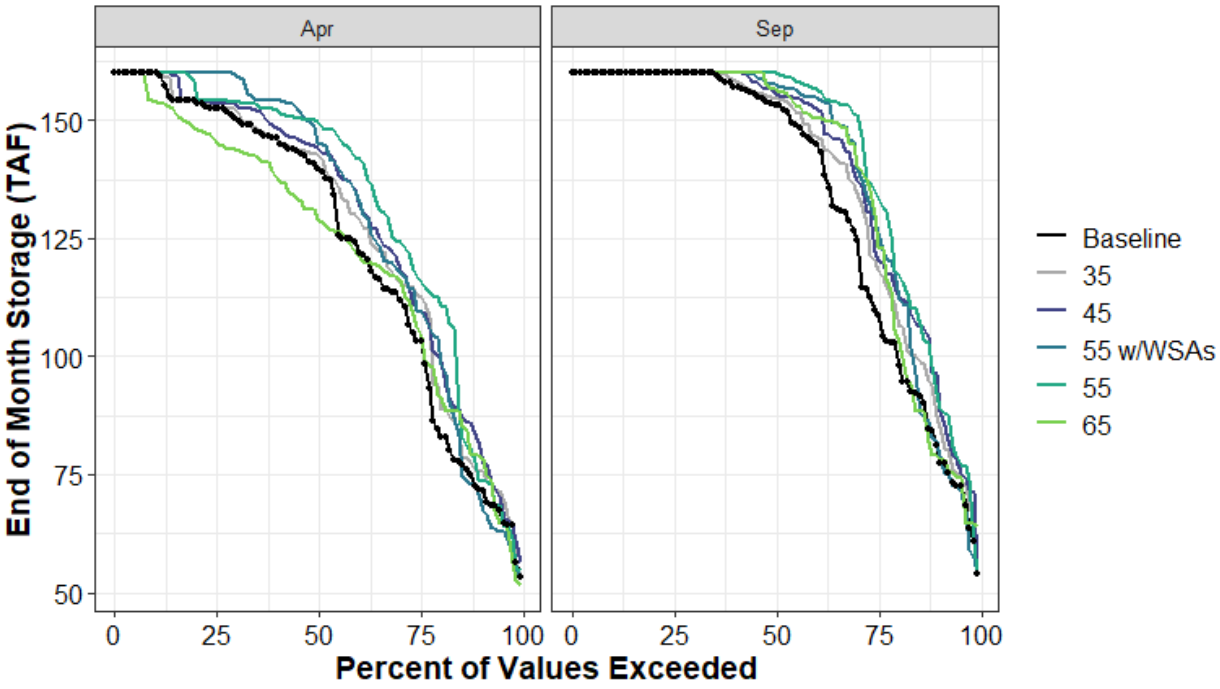

Figure H1a3-121. Los Vaqueros Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

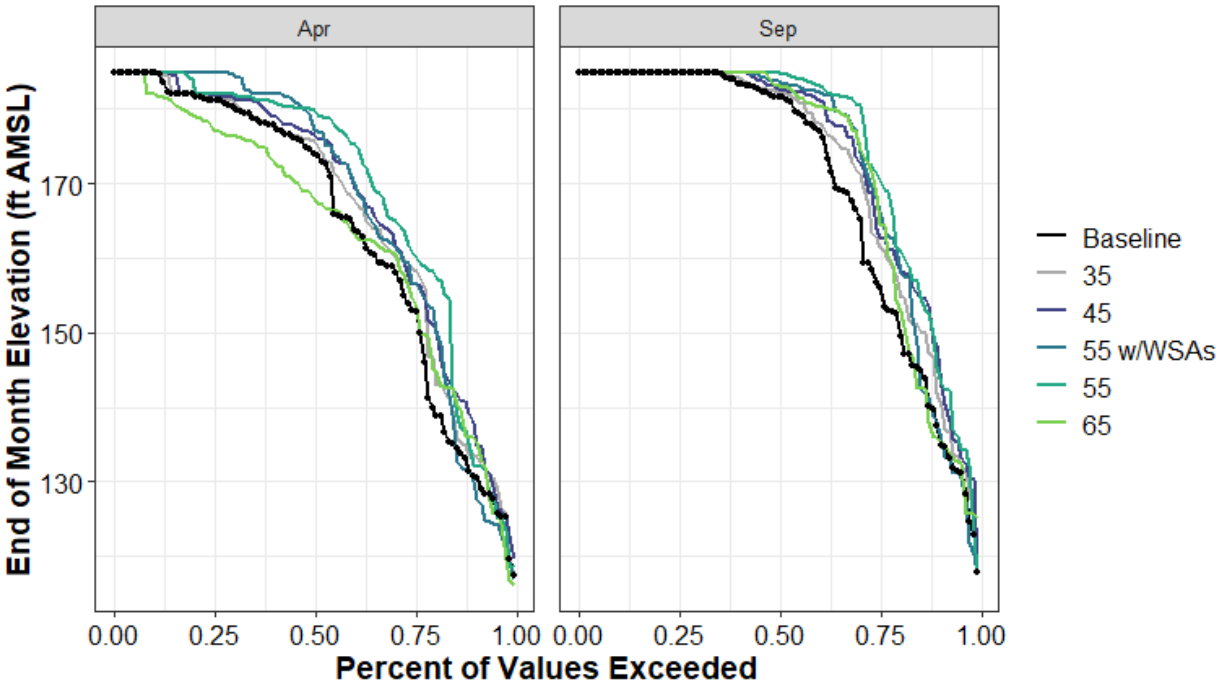

Figure H1a3-122. Los Vaqueros Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-245. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-246. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-247. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-248. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Los Vaqueros Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.32 Lower Bear (Mokelumne River Watershed)

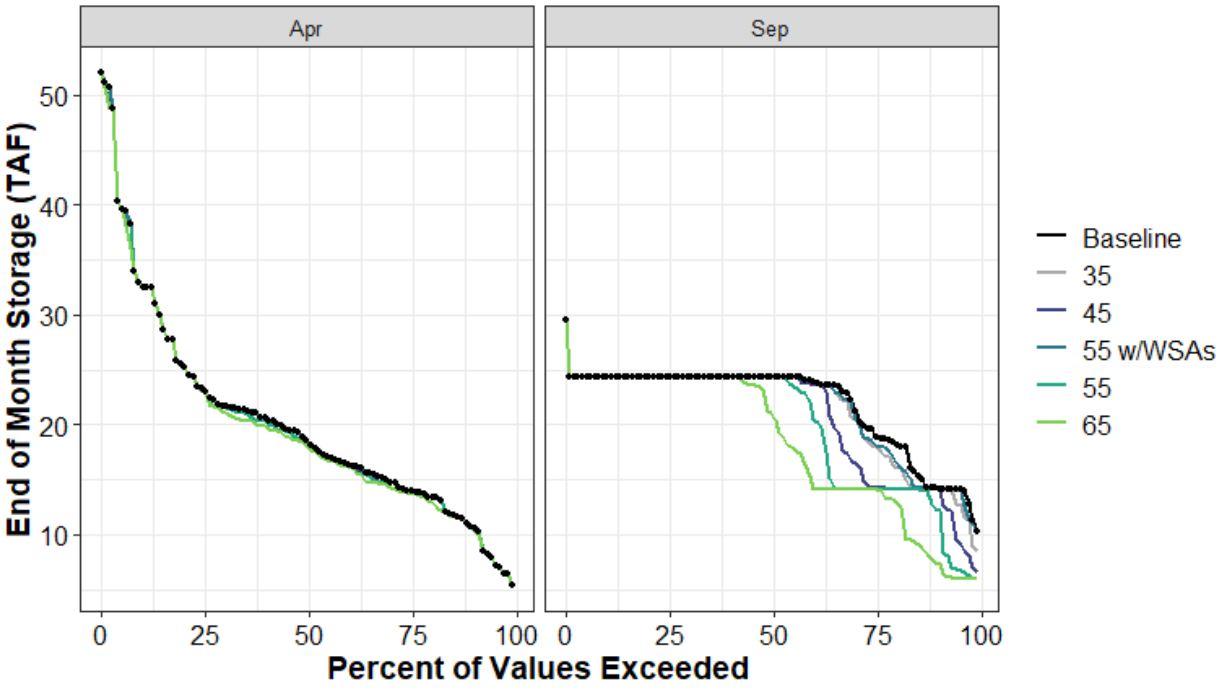

Figure H1a3-123. Lower Bear End of April and End of September Storage (TAF) Percent Exceedance Plot

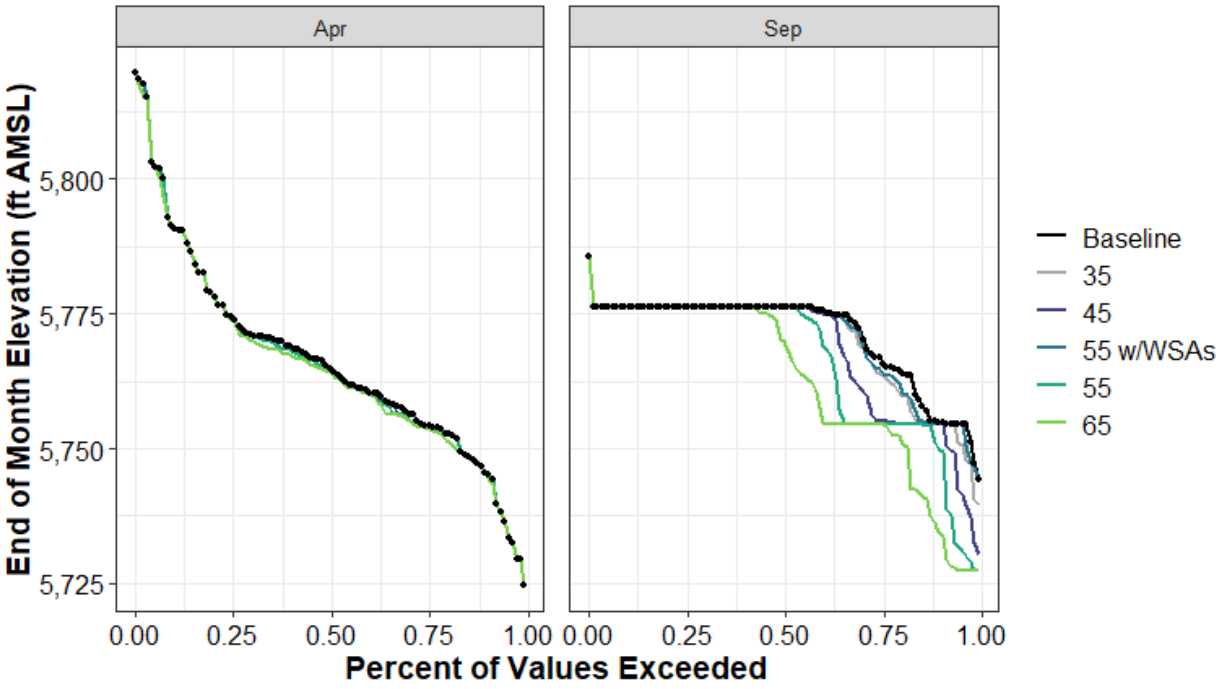

Figure H1a3-124. Lower Bear Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-249. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-250. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-251. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Lower Bear

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-252. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Lower Bear

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.33 Merle Collins Reservoir (Yuba River Watershed)

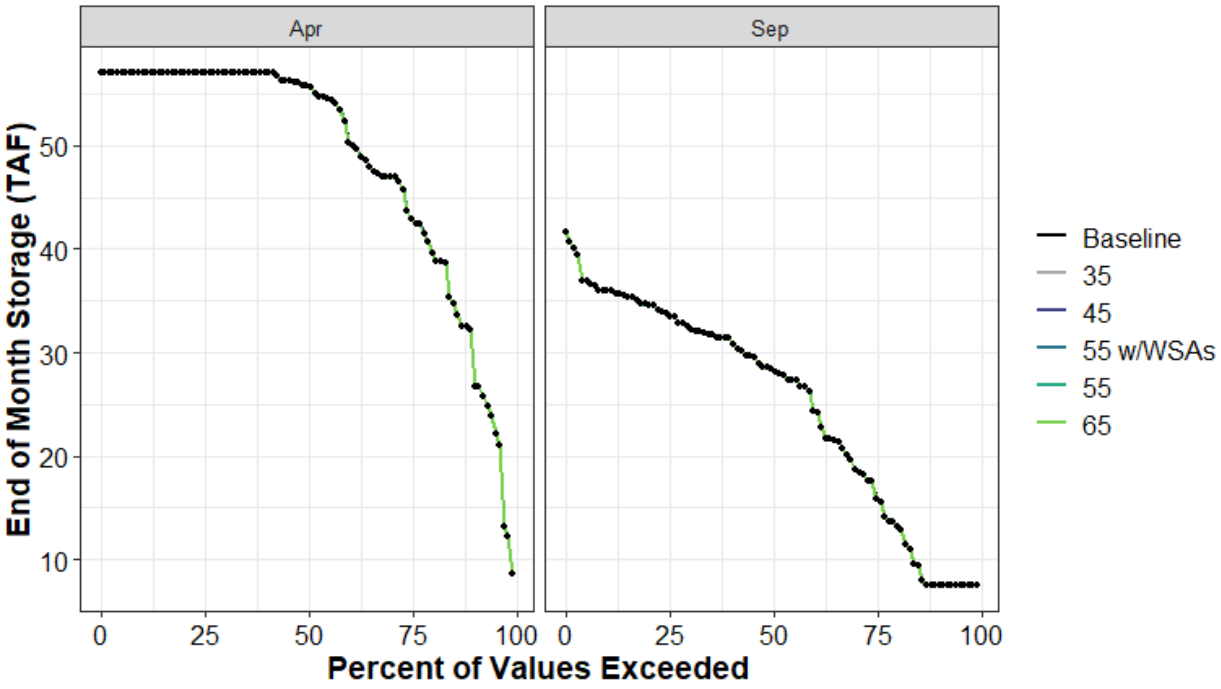

Figure H1a3-125. Merle Collins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

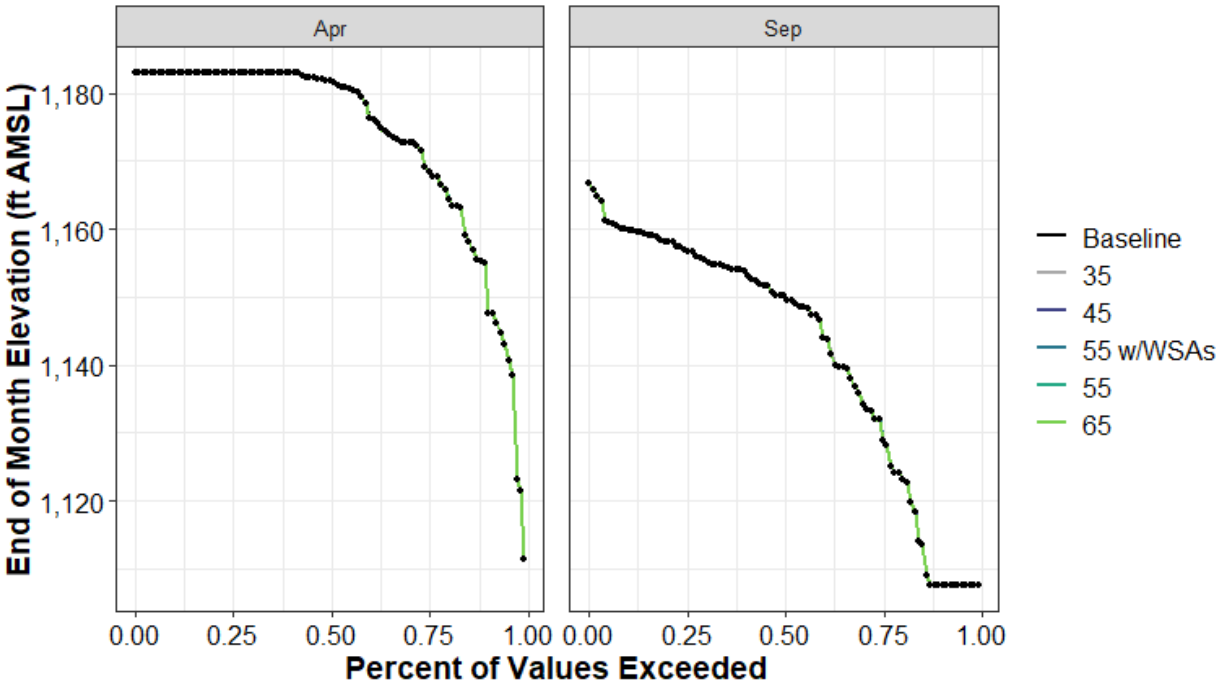

Figure H1a3-126. Merle Collins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-253. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-254. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-255. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-256. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Merle Collins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.34 Mountain Meadows Reservoir (Feather River Watershed)

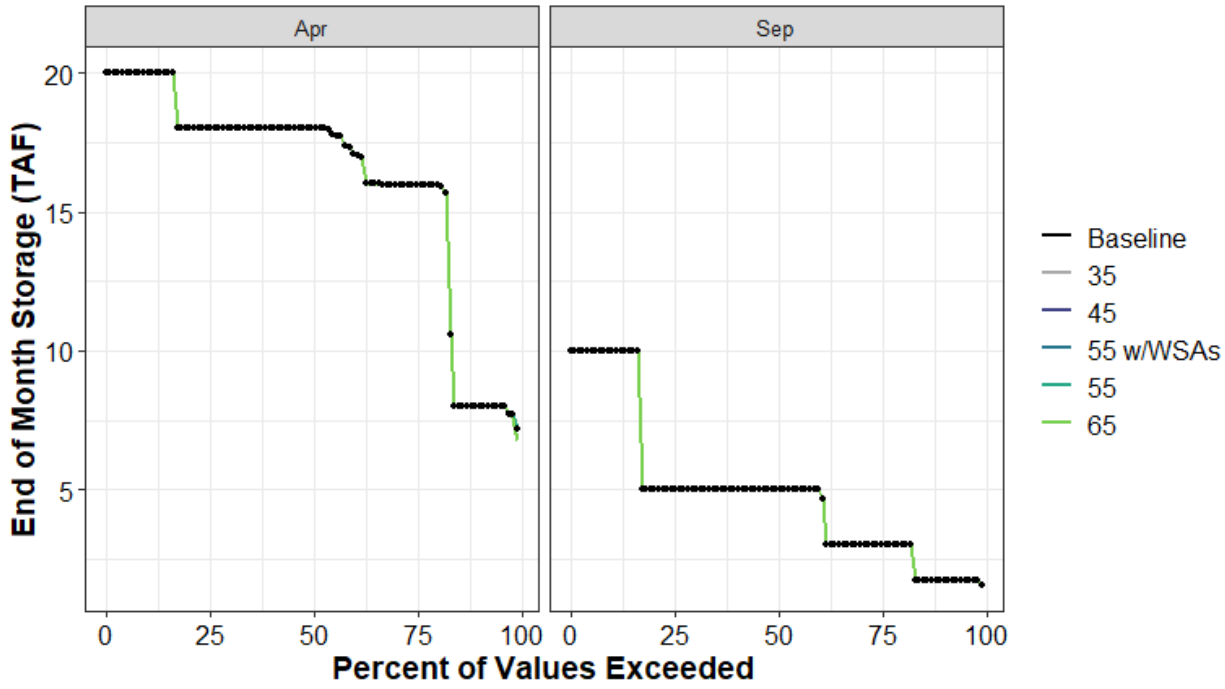

Figure H1a3-127. Mountain Meadows Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-257. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-258. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Mountain Meadows Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.35 New Bullards Bar Reservoir (Yuba River Watershed)

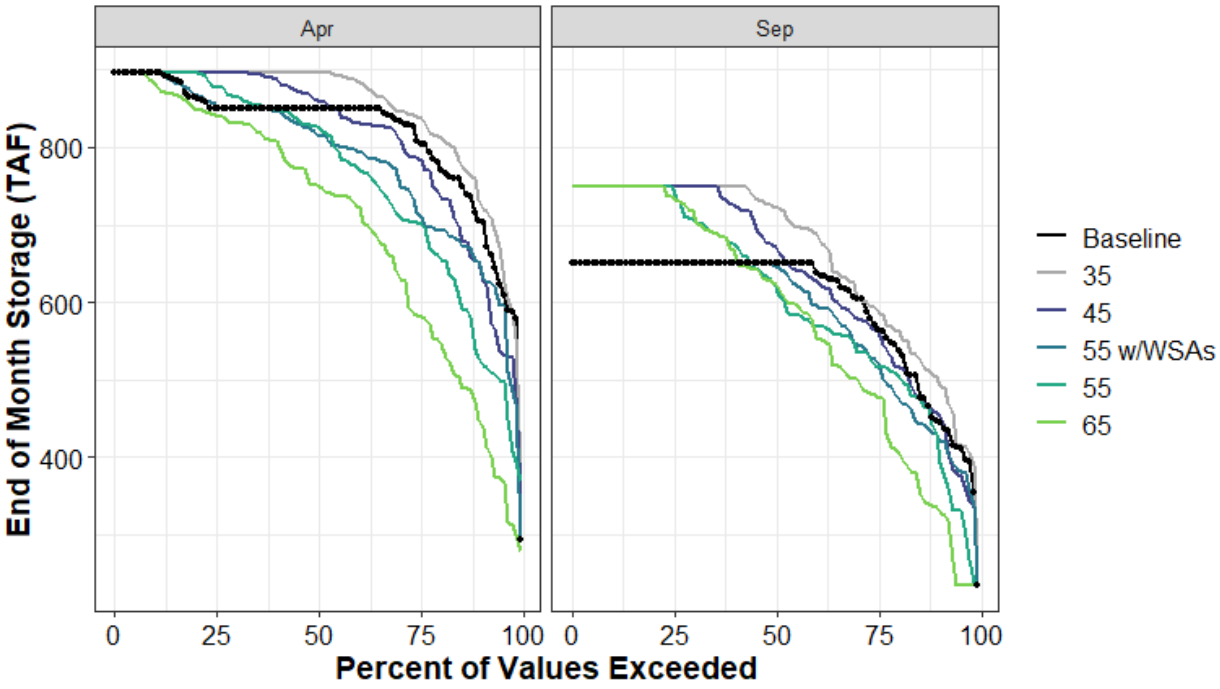

Figure H1a3-128. New Bullards Bar Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

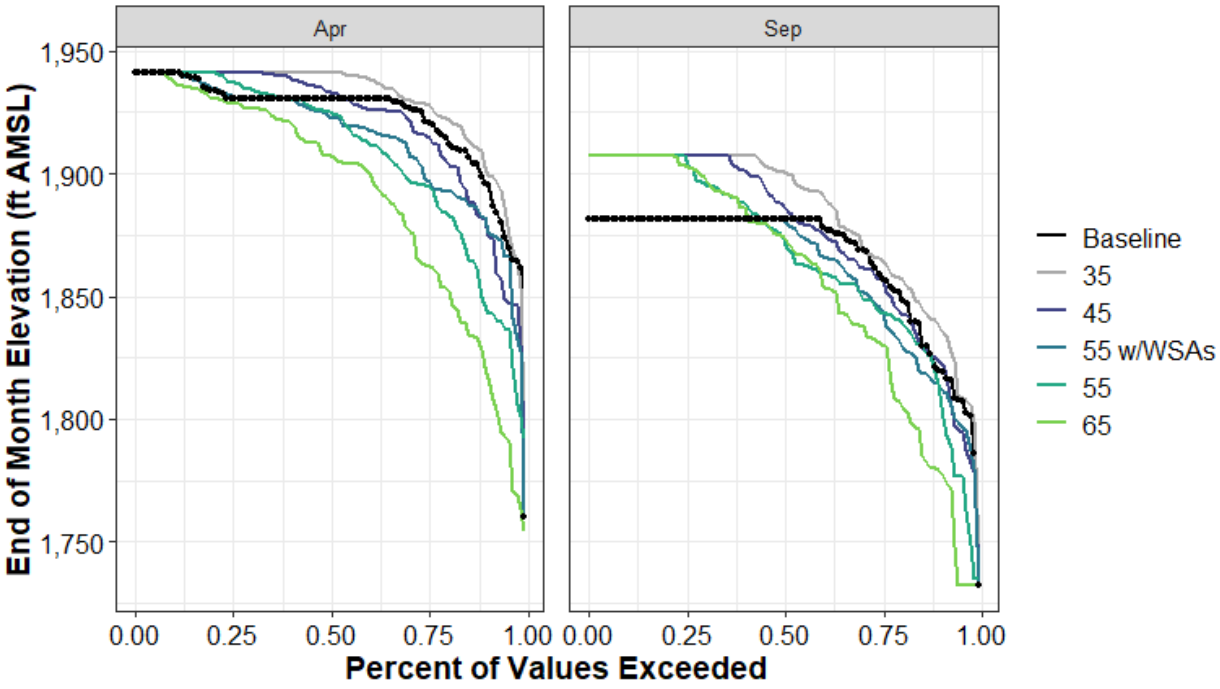

Figure H1a3-129. New Bullards Bar Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-259. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	234	21	5	0	5	0
10%	446	55	11	-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	37	-19	5	-20

Table H1a3-260. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	1,732	10	2	0	2	0
10%	1,820	18	4	-6	-8	-41
25%	1,858	7	-1	-13	-15	-28
50%	1,881	19	6	-1	-9	-7
75%	1,881	26	26	0	24	22
90%	1,881	26	26	0	26	26
100%	1,881	26	26	0	26	26
Mean	1,865	17	9	-6	0	-9

Table H1a3-261. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	-51	-113

Table H1a3-262. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Bullards Bar Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	-13	-30

H1a3.5.36 New Hogan Reservoir (Calaveras River Watershed)

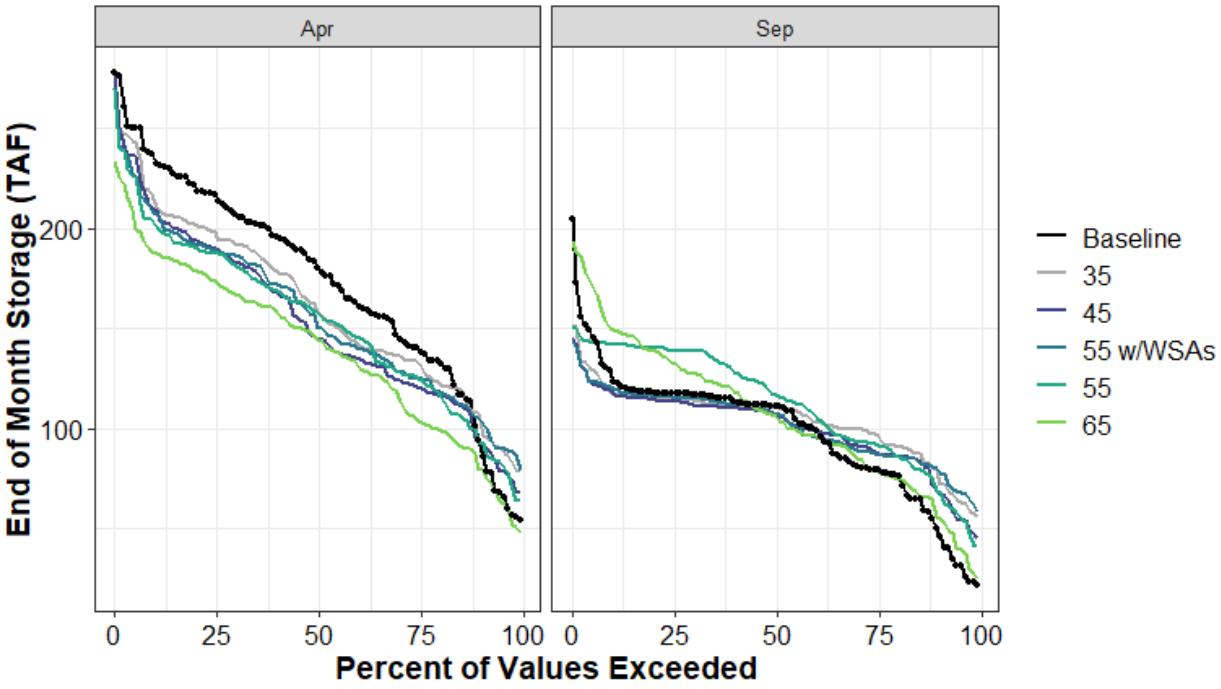

Figure H1a3-130. New Hogan Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

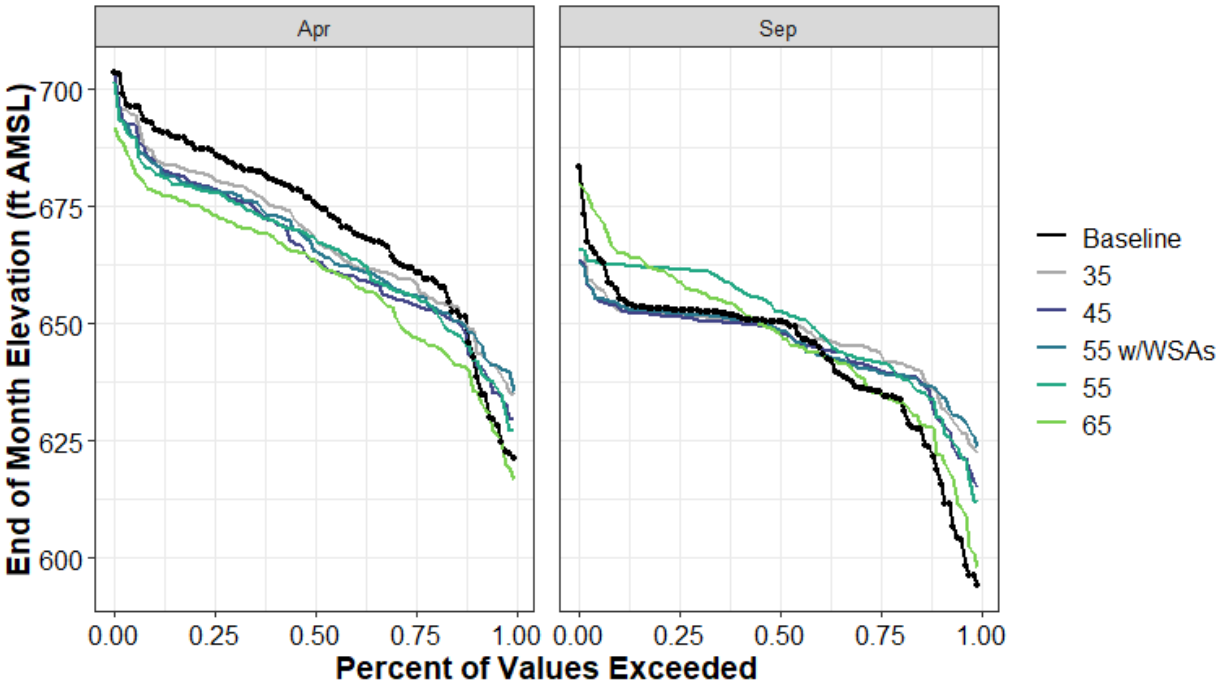

Figure H1a3-131. New Hogan Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-263. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	14	8

Table H1a3-264. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	9	6
90%	656	-3	-2	-2	7	10
100%	683	-18	-20	-20	-18	-3
Mean	643	4	2	3	7	3

Table H1a3-265. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-266. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for New Hogan Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.37 Oroville Reservoir (Feather River Watershed)

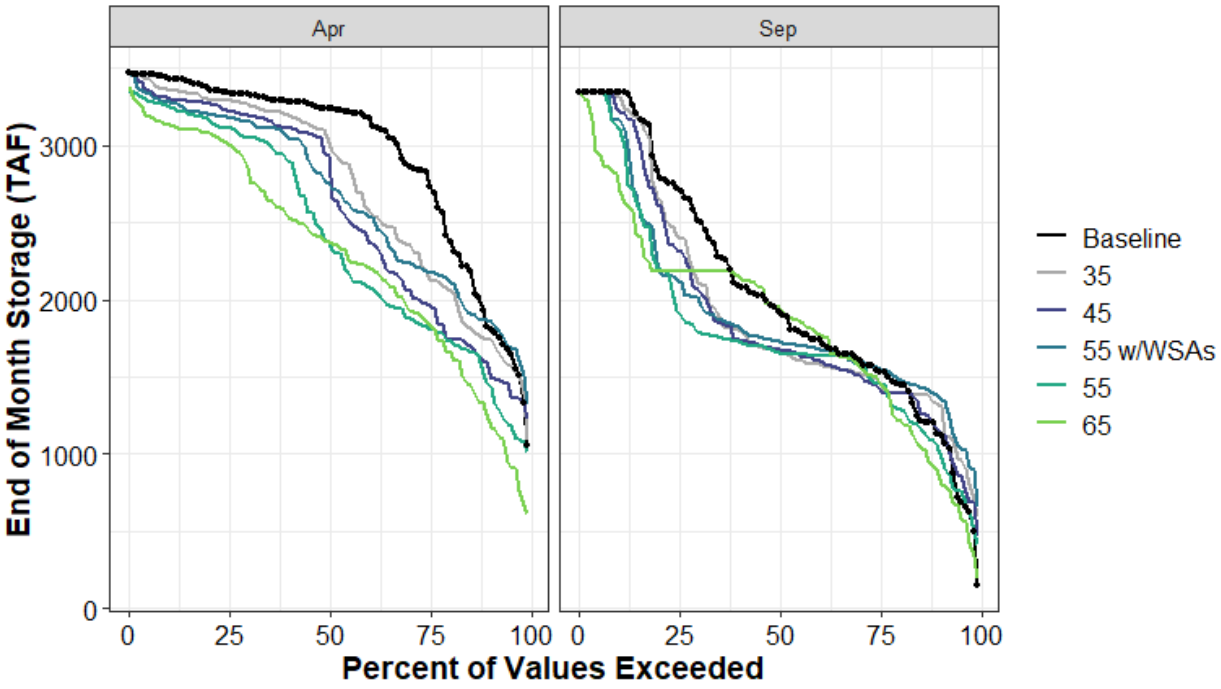

Figure H1a3-132. Oroville Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

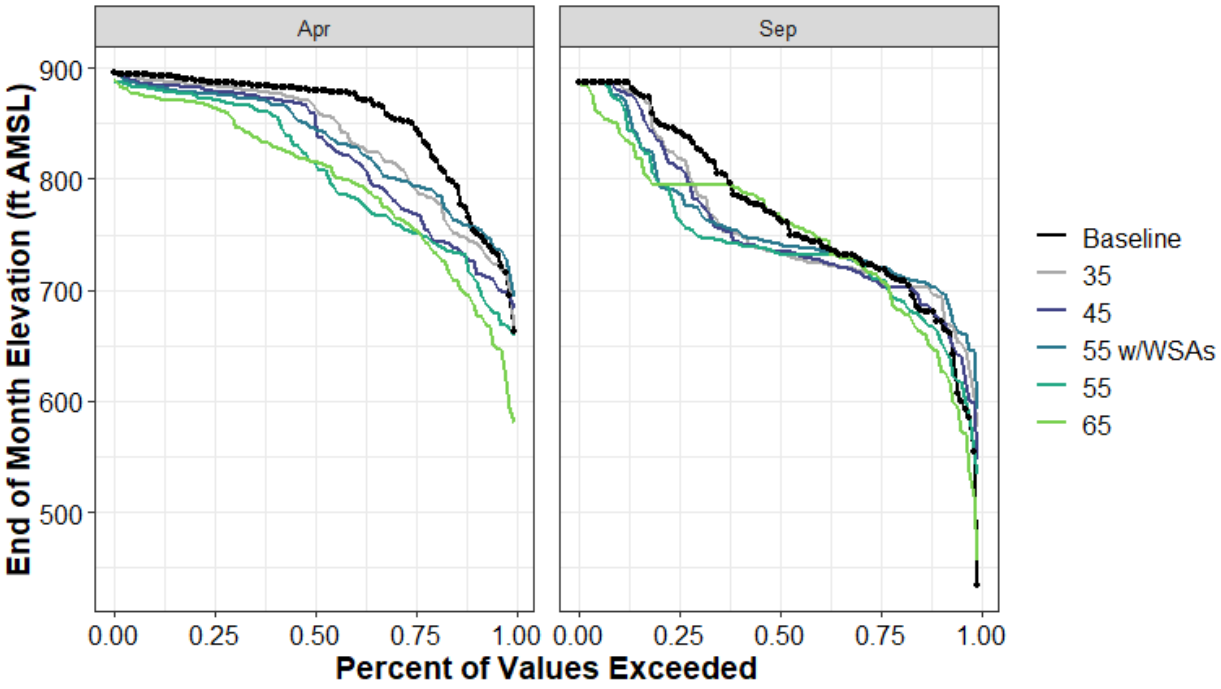

Figure H1a3-133. Oroville Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-267. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	146	445	321	510	268	41
10%	1,129	197	26	251	-90	-248
25%	1,539	-65	-111	16	-80	-63
50%	1,919	-253	-245	-192	-265	39
75%	2,713	-304	-394	-592	-801	-525
90%	3,350	-36	-124	-187	-245	-621
100%	3,351	0	0	0	0	0
Mean	2,057	-114	-156	-141	-260	-208

Table H1a3-268. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	434	143	113	159	100	22
10%	672	23	3	29	-10	-30
25%	720	-8	-13	2	-9	-7
50%	764	-29	-28	-22	-31	4
75%	843	-24	-33	-56	-80	-48
90%	888	-2	-8	-13	-17	-44
100%	888	0	0	0	0	0
Mean	768	-10	-14	-10	-25	-19

Table H1a3-269. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	1,056	33	173	261	-47	-447
10%	1,827	-86	-254	36	-369	-590
25%	2,779	-618	-813	-595	-963	-936
50%	3,238	-219	-305	-487	-861	-864
75%	3,343	-54	-117	-159	-231	-335
90%	3,435	-73	-131	-154	-179	-301
100%	3,470	0	0	0	-116	-92
Mean	2,946	-220	-357	-285	-542	-643

Table H1a3-270. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Oroville Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	664	4	20	30	-5	-82
10%	753	-10	-29	4	-43	-68
25%	848	-56	-79	-53	-96	-93
50%	880	-15	-21	-35	-65	-65
75%	887	-4	-8	-11	-16	-23
90%	893	-5	-8	-10	-12	-20
100%	896	0	0	0	-8	-6
Mean	854	-18	-31	-22	-48	-57

H1a3.5.38 Pardee Reservoir (Mokelumne River Watershed)

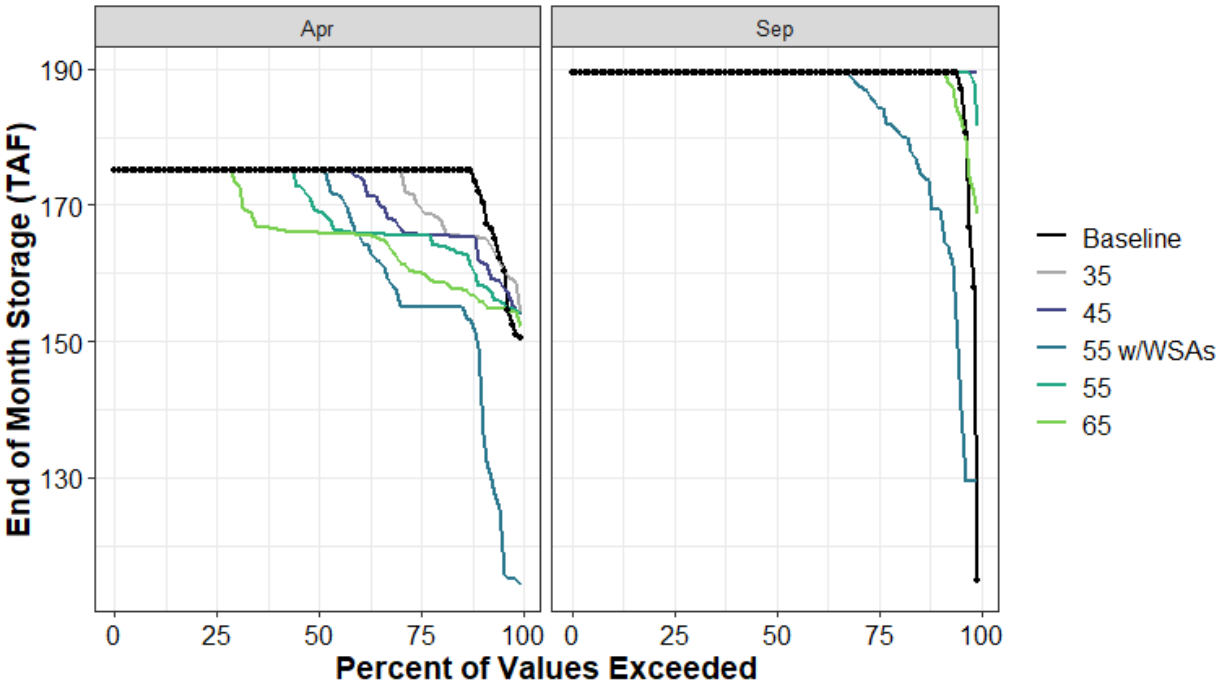

Figure H1a3-134. Pardee Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

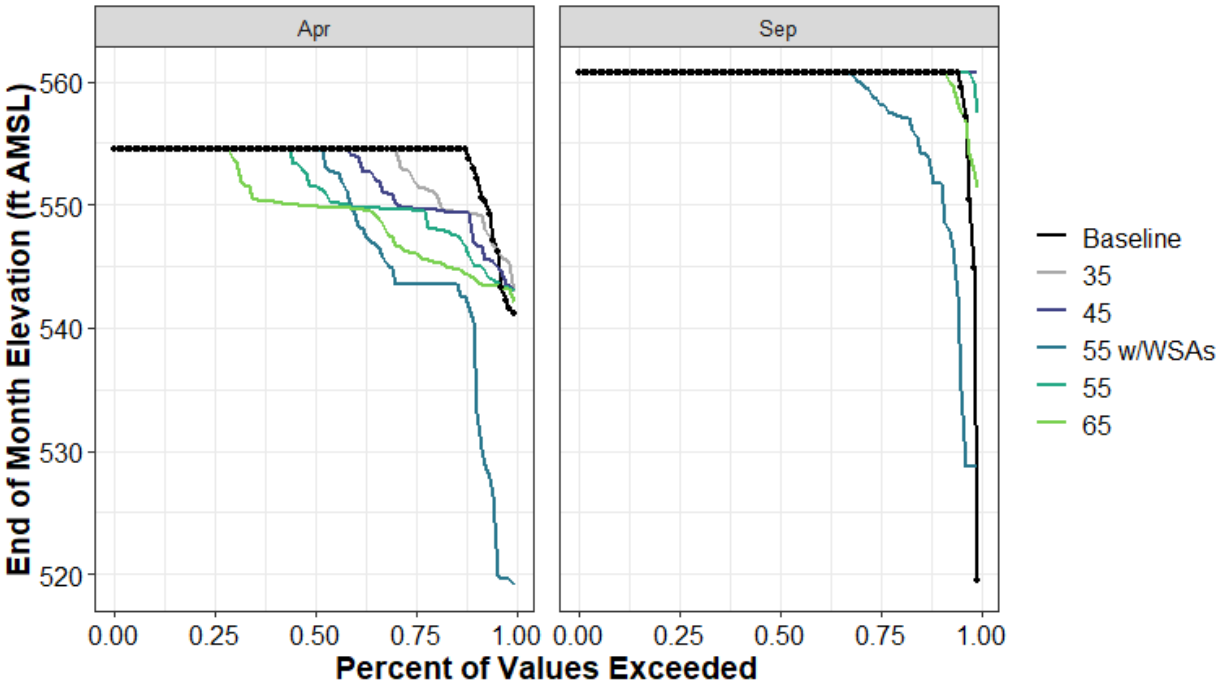

Figure H1a3-135. Pardee Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-271. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-272. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-273. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-274. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Pardee Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.39 PhilbrookRoundValley (Feather River Watershed)

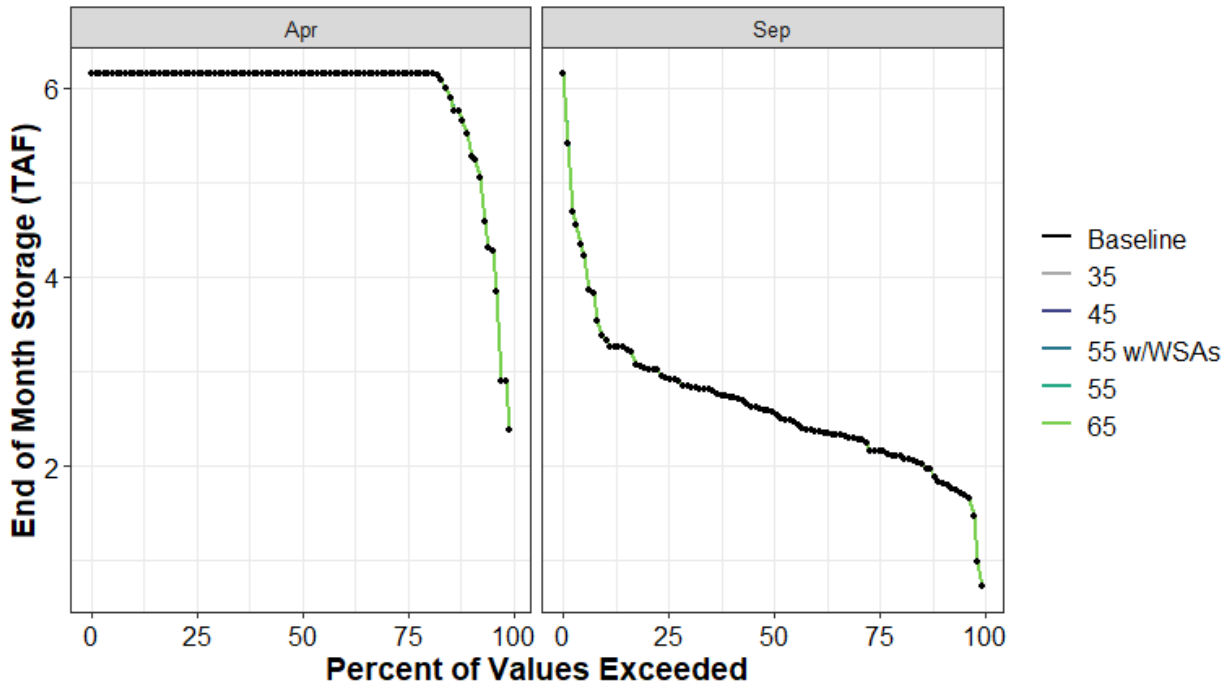

Figure H1a3-136. PhilbrookRoundValley End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-275. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for PhilbrookRoundValley

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-276. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for PhilbrookRoundValley

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.40 Rollins Reservoir (Bear River Watershed)

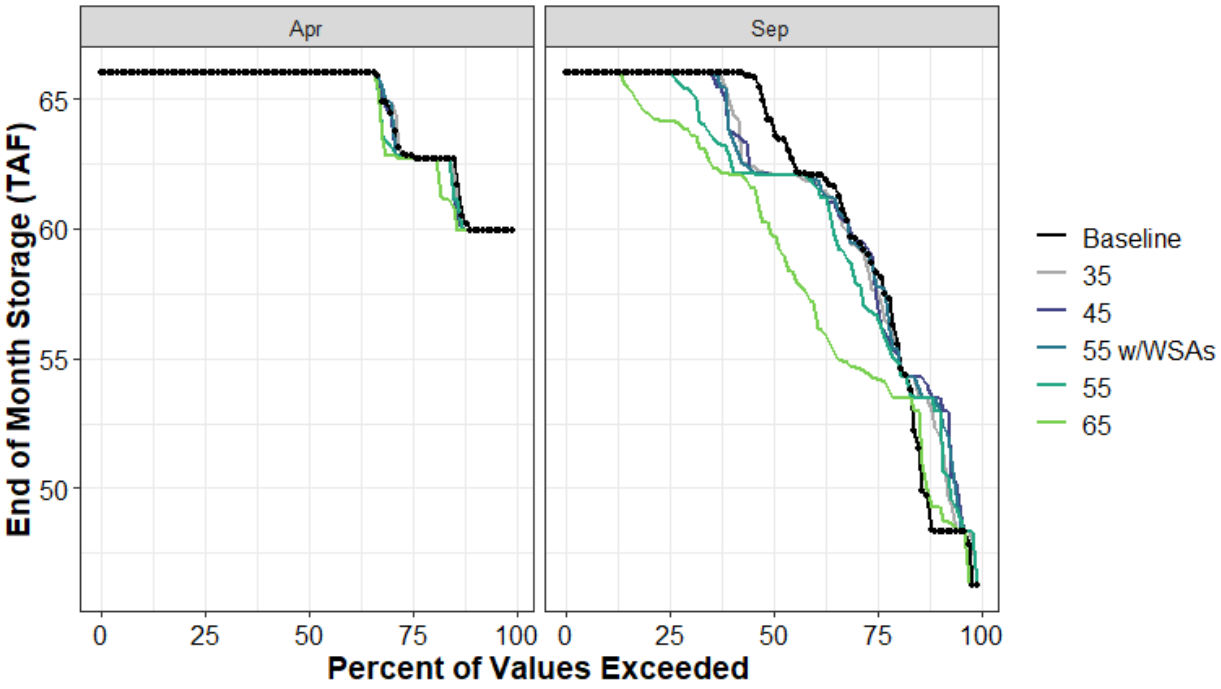

Figure H1a3-137. Rollins Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

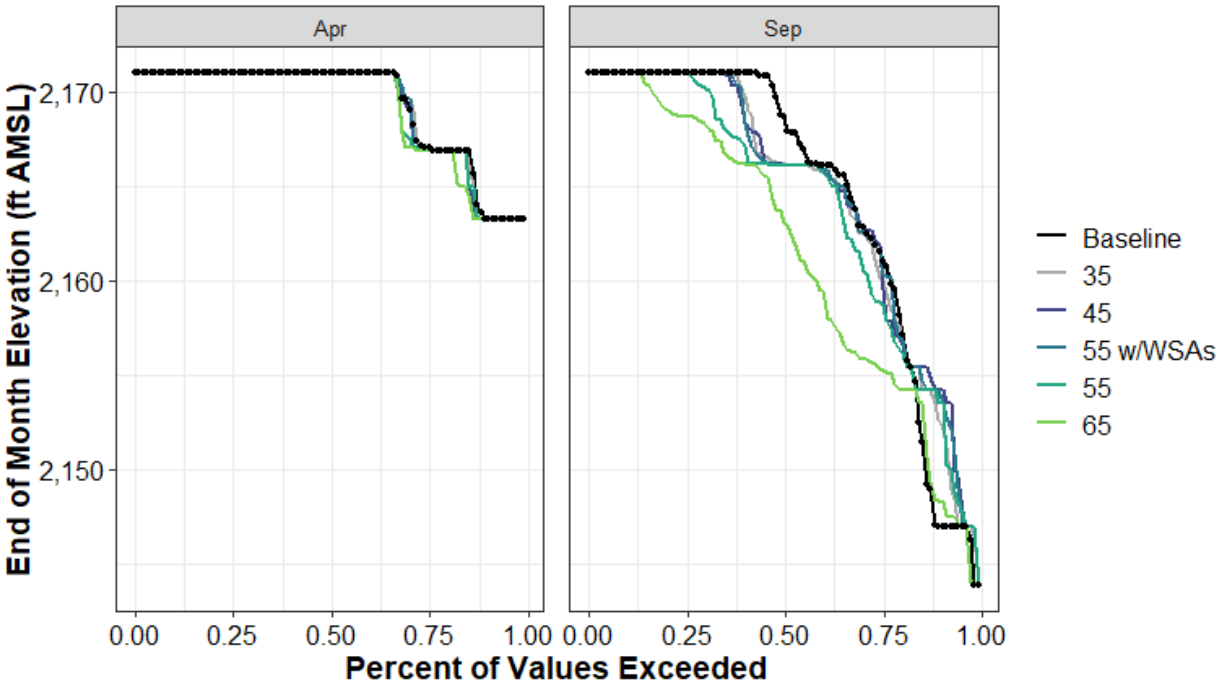

Figure H1a3-138. Rollins Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-277. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-278. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-279. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-280. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Rollins Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.41 Salt Springs (Mokelumne River Watershed)

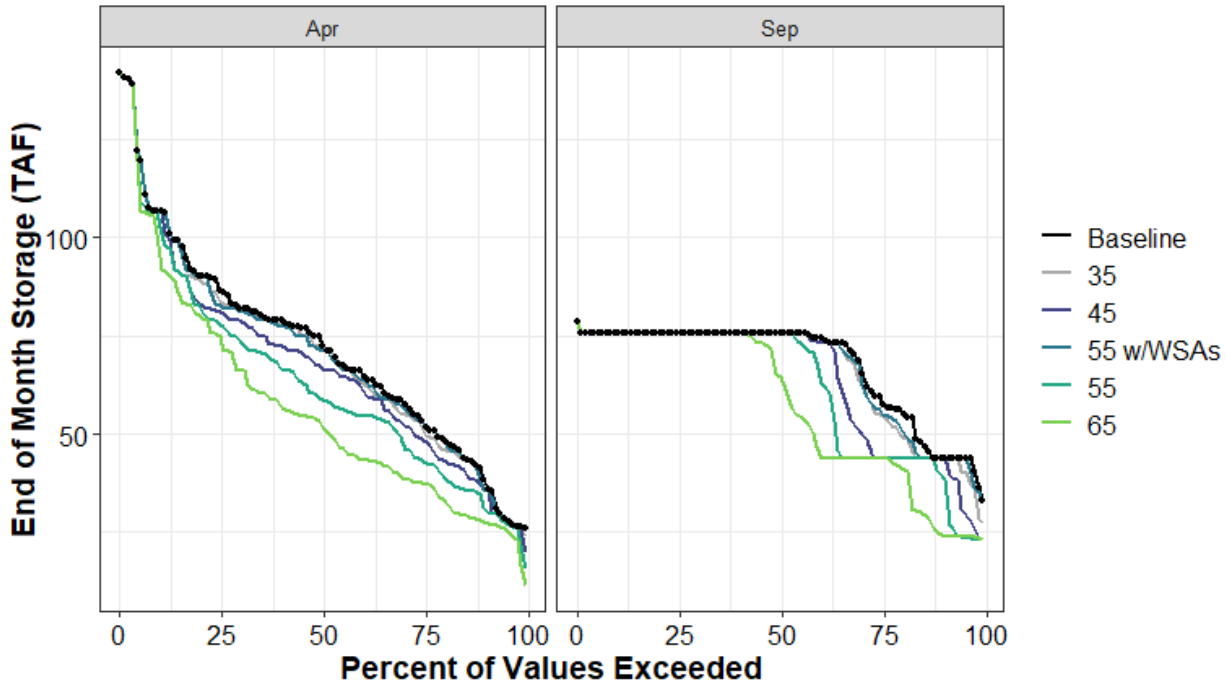

Figure H1a3-139. Salt Springs End of April and End of September Storage (TAF) Percent Exceedance Plot

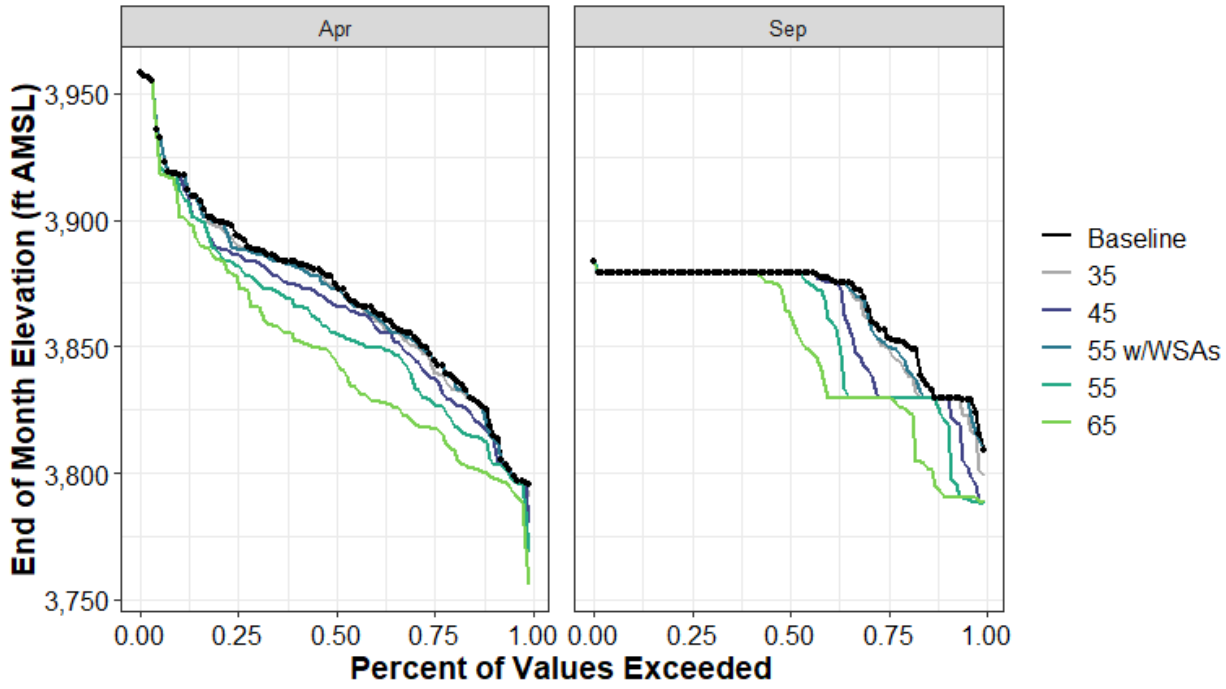

Figure H1a3-140. Salt Springs Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-281. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-282. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-283. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Salt Springs

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-284. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Salt Springs

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.42 Scotts Flat Reservoir (Yuba RiverWatershed)

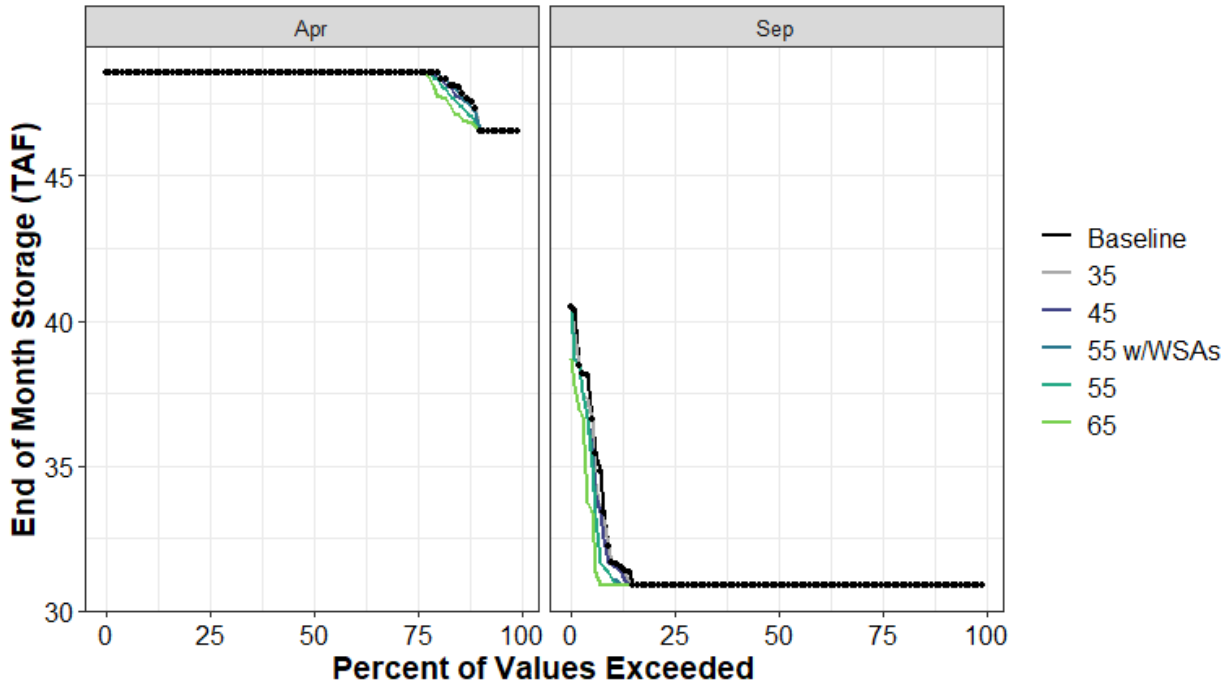

Figure H1a3-141. Scotts Flat Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

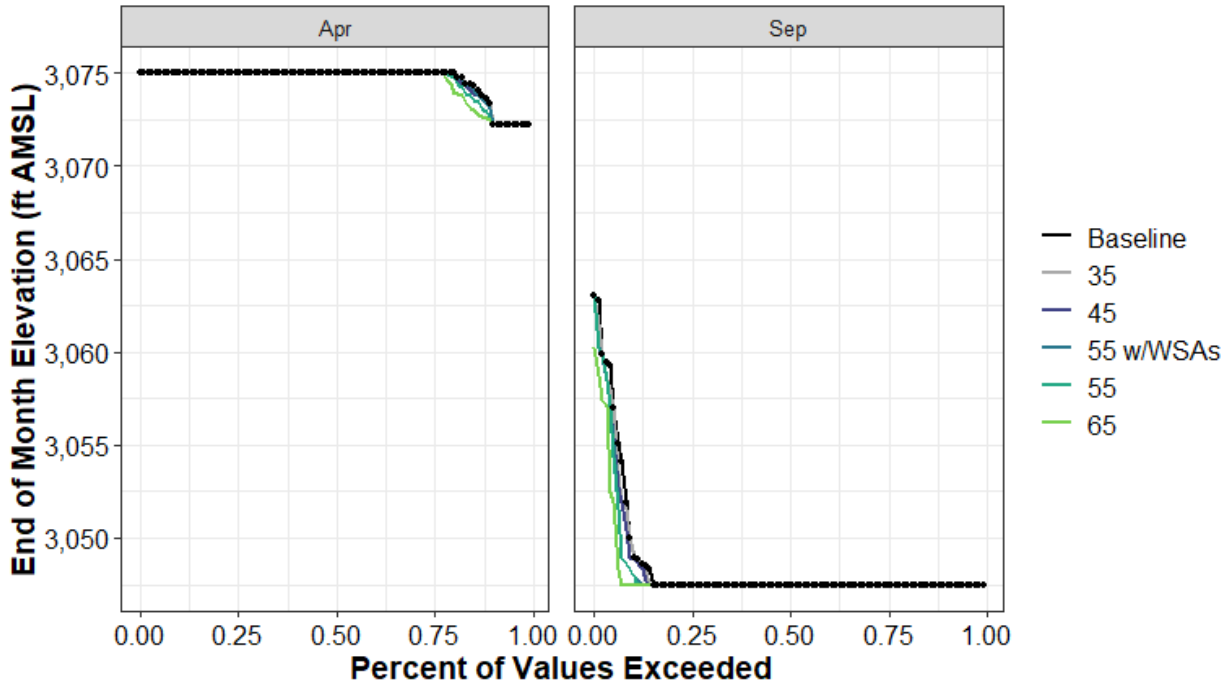

Figure H1a3-142. Scotts Flat Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-285. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-286. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	3,047	0	0	0	0	0
10%	3,047	0	0	0	0	0
25%	3,047	0	0	0	0	0
50%	3,047	0	0	0	0	0
75%	3,047	0	0	0	0	0
90%	3,049	0	0	-1	-1	-2
100%	3,063	0	0	0	0	-3
Mean	3,048	0	0	0	0	-1

Table H1a3-287. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-288. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Scotts Flat Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.43 Shasta Lake (Sacramento River Watershed)

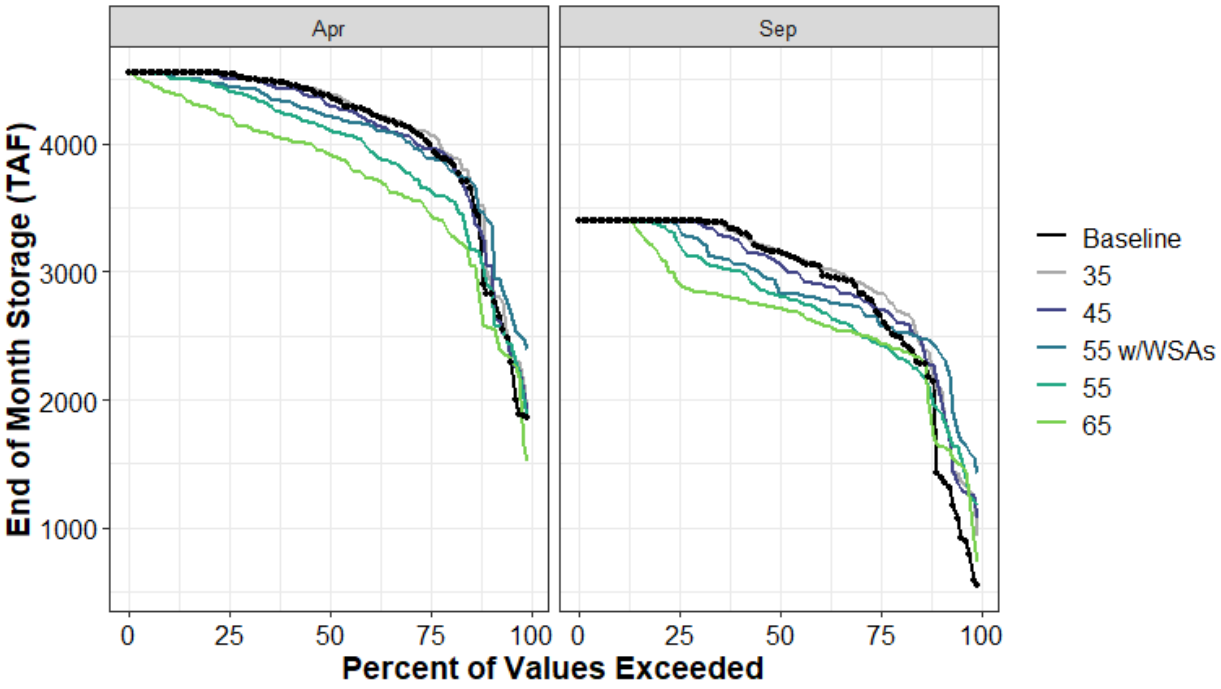

Figure H1a3-143. Shasta Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

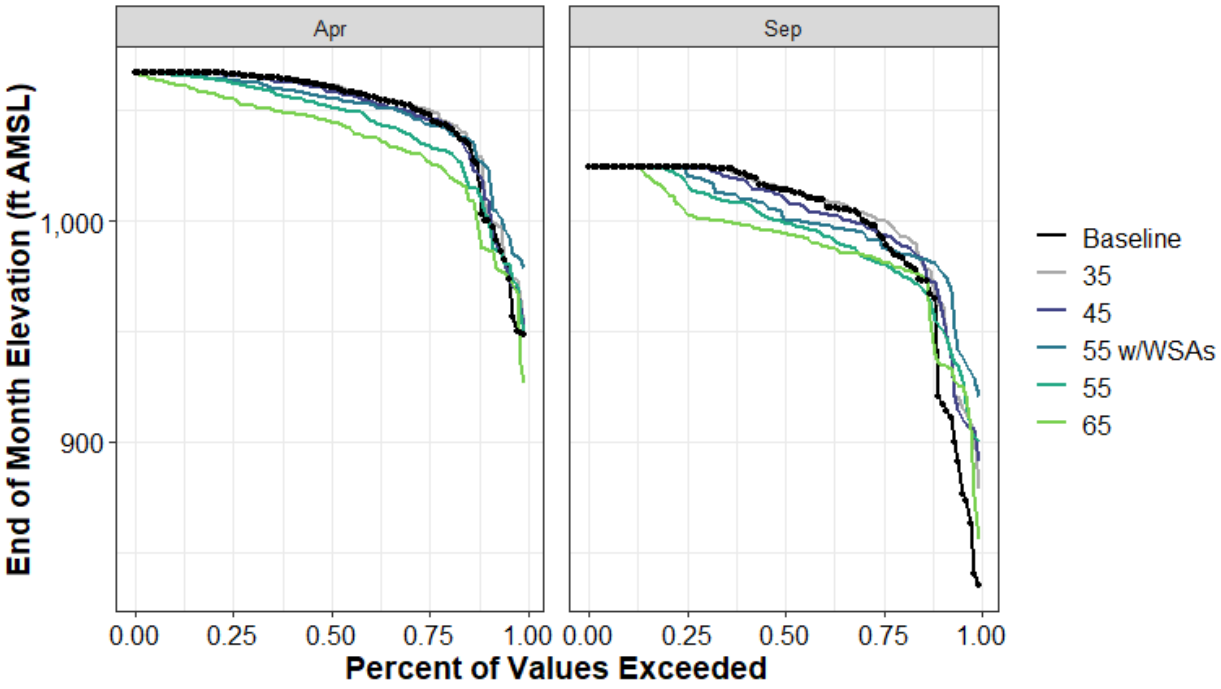

Figure H1a3-144. Shasta Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-289. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	550	389	518	876	629	181
10%	1,420	670	703	973	506	233
25%	2,679	153	27	-61	-241	-220
50%	3,158	15	-95	-318	-344	-443
75%	3,400	0	-8	-64	-184	-494
90%	3,400	0	0	0	0	-1
100%	3,400	0	0	0	0	0
Mean	2,871	90	32	3	-123	-227

Table H1a3-290. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	835	44	56	85	65	21
10%	920	43	44	59	33	16
25%	993	8	1	-3	-12	-11
50%	1,014	1	-4	-14	-15	-20
75%	1,024	0	0	-3	-8	-21
90%	1,024	0	0	0	0	0
100%	1,024	0	0	0	0	0
Mean	997	6	4	3	-3	-9

Table H1a3-291. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	1,862	32	56	533	1	-349
10%	2,827	152	227	577	65	-255
25%	4,015	68	-57	-131	-369	-540
50%	4,372	18	-71	-158	-265	-454
75%	4,543	0	-33	-94	-124	-329
90%	4,552	0	0	-12	-26	-155
100%	4,552	0	0	0	0	0
Mean	4,084	42	-12	-13	-168	-357

Table H1a3-292. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Shasta Lake

	Baseline	35	45	55 w/WSAs	55	65
0%	949	2	3	30	0	-23
10%	1,000	7	10	25	3	-13
25%	1,048	2	-2	-5	-14	-21
50%	1,061	1	-2	-5	-9	-16
75%	1,067	0	-1	-3	-4	-11
90%	1,067	0	0	0	-1	-5
100%	1,067	0	0	0	0	0
Mean	1,049	2	0	0	-6	-13

H1a3.5.44 Silver Lake (American River Watershed)

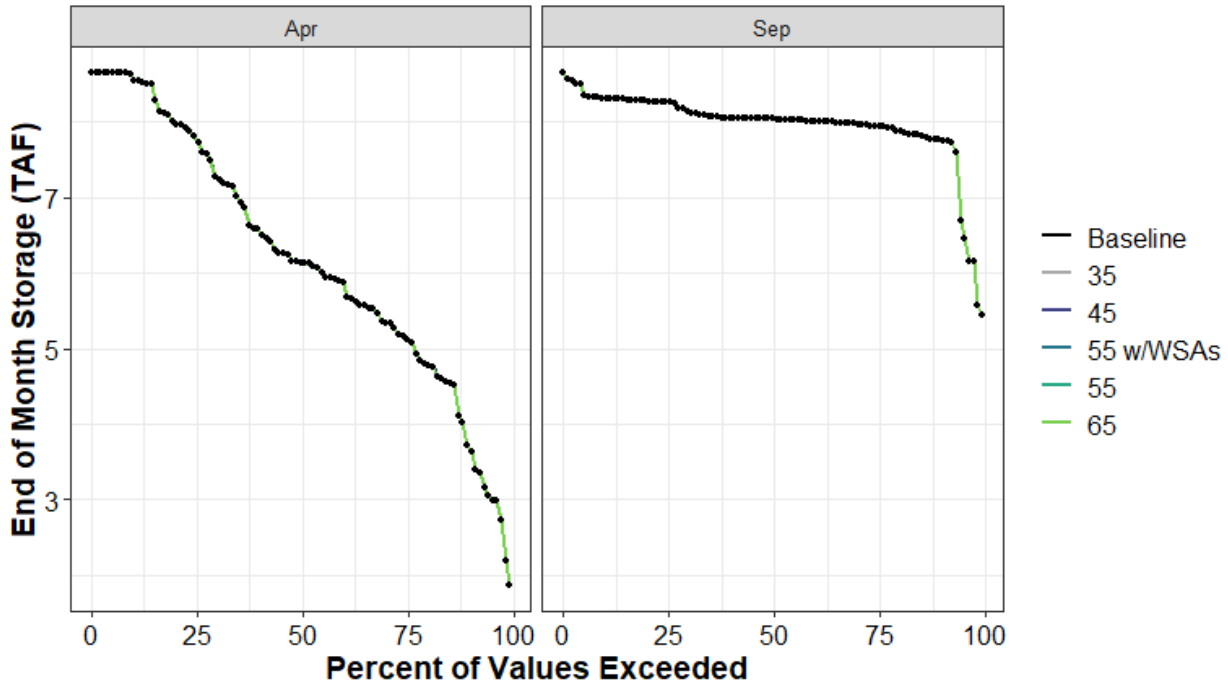

Figure H1a3-145. Silver Lake End of April and End of September Storage (TAF) Percent Exceedance Plot

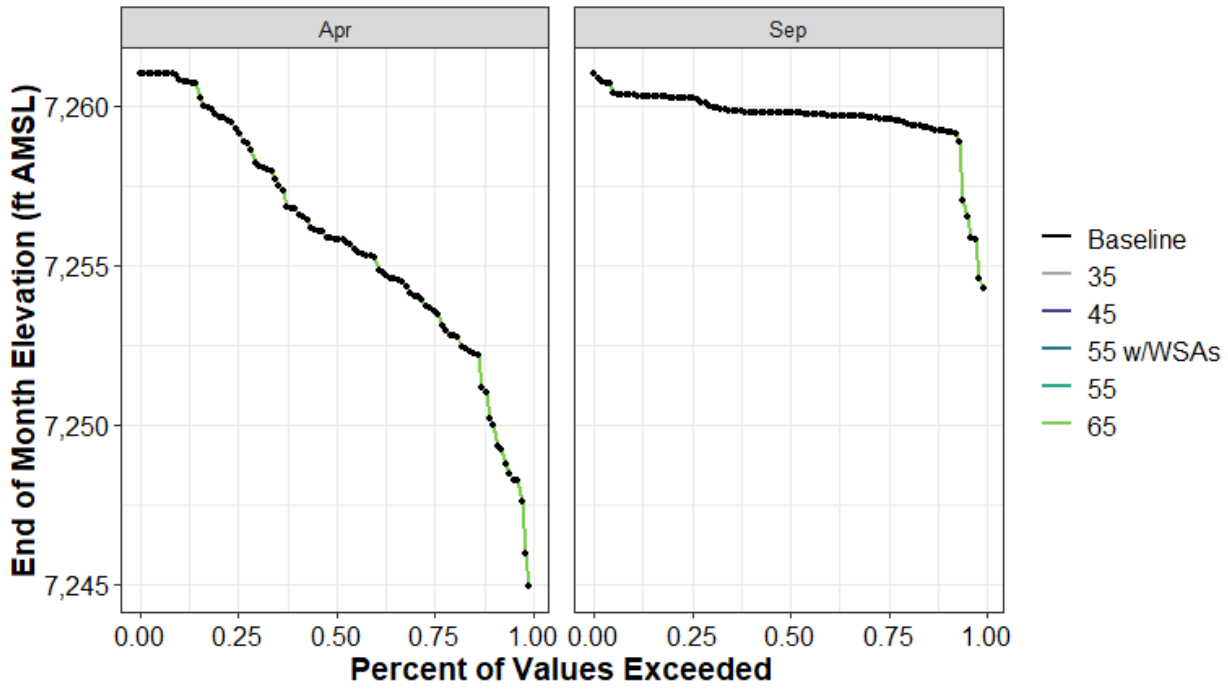

Figure H1a3-146. Silver Lake End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-293. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-294. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-295. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Silver Lake

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-296. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Silver Lake

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.45 Sly Creek Reservoir (Feather River Watershed)

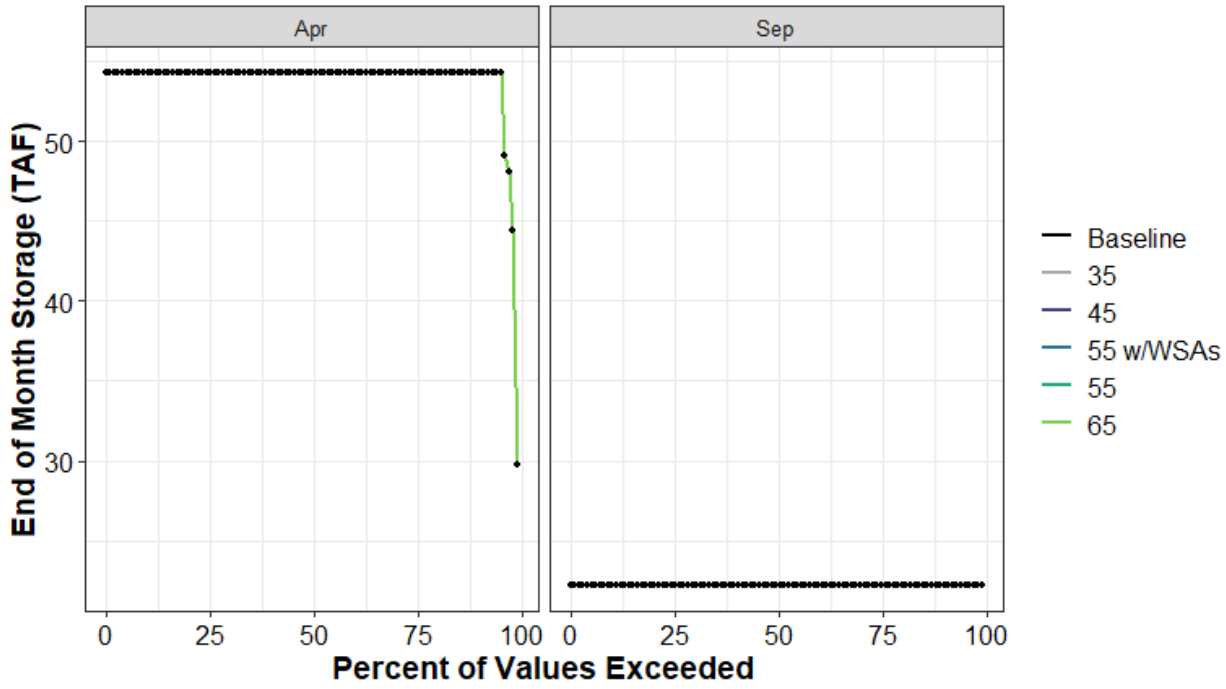

Figure H1a3-147. Sly Creek Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

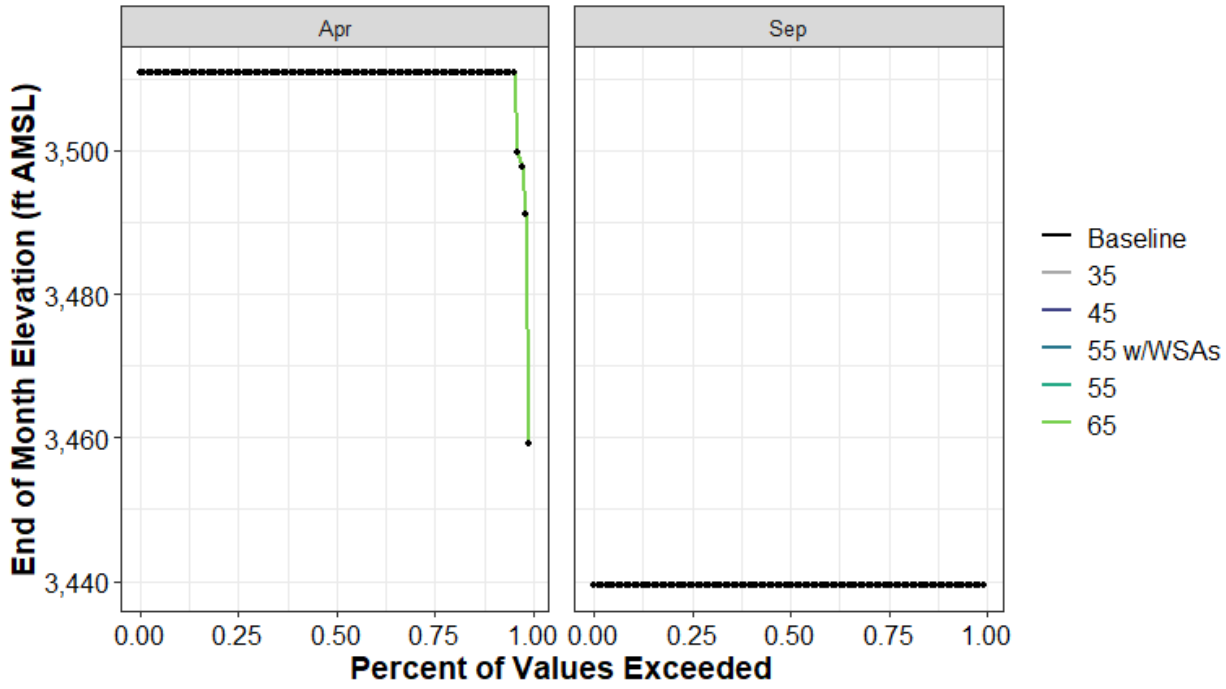

Figure H1a3-148. Sly Creek Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-297. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-298. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-299. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-300. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Sly Creek Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.46 Stony Gorge Reservoir (Stony Creek Watershed)

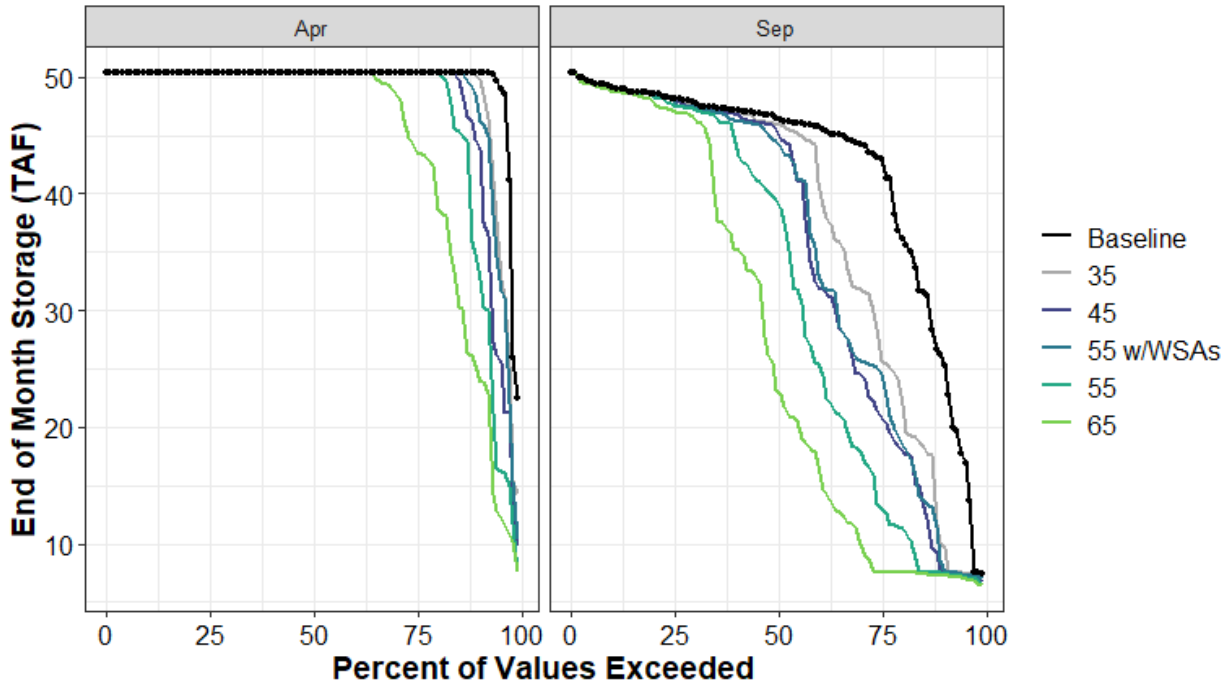

Figure H1a3-149. Stony Gorge Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

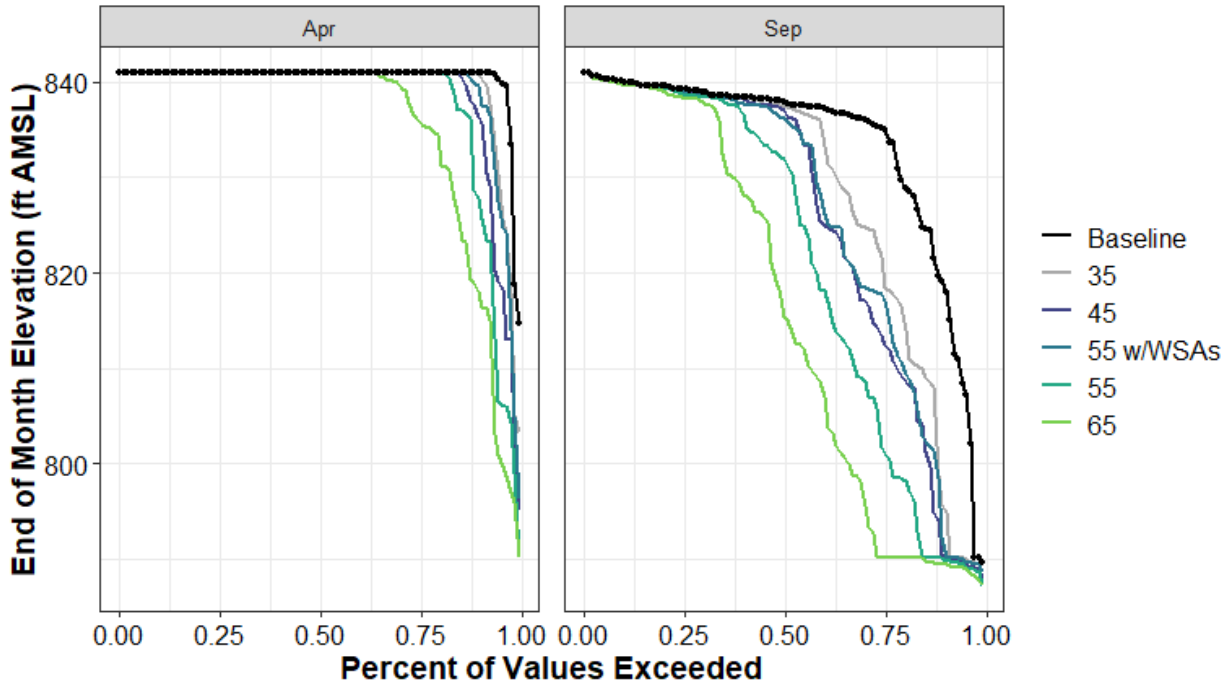

Figure H1a3-150. Stony Gorge Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-301. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-302. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-303. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-304. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Stony Gorge Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.47 Stumpy Meadows (American River Watershed)

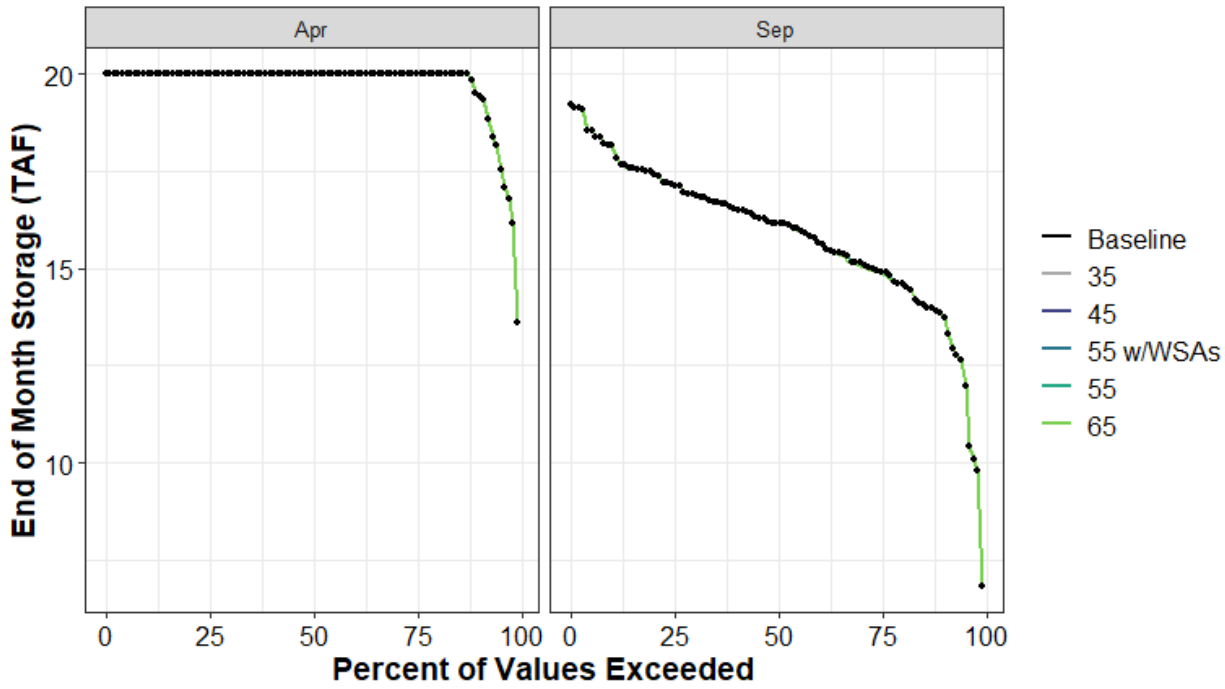

Figure H1a3-151. Stumpy Meadows End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-305. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-306. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Stumpy Meadows

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.48 SWP San Luis Reservoir (South of Delta Offstream)

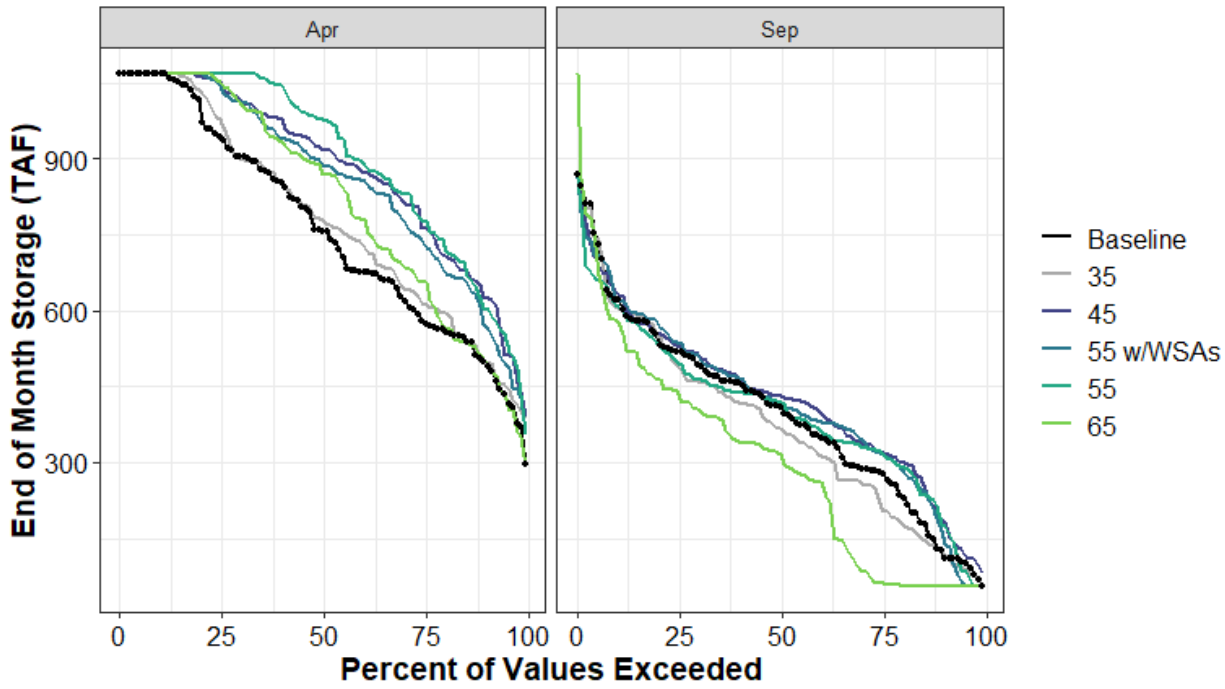

Figure H1a3-152. SWP San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

Table H1a3-307. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	55	1	26	0	0	0
10%	123	2	64	37	56	-67
25%	279	-66	43	38	41	-216
50%	410	-42	20	1	10	-95
75%	518	-32	12	18	-22	-88
90%	622	-14	12	1	-13	-43
100%	869	-3	-5	-7	-6	198
Mean	397	-24	28	20	5	-98

Table H1a3-308. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for SWP San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	297	88	94	64	57	-3
10%	496	-1	130	74	109	5
25%	575	37	187	157	202	82
50%	757	22	160	129	219	112
75%	940	30	104	97	127	107
90%	1,067	0	0	0	0	0
100%	1,067	0	0	0	0	0
Mean	763	19	119	98	138	56

H1a3.5.49 Total San Luis Reservoir (South of Delta Offstream)

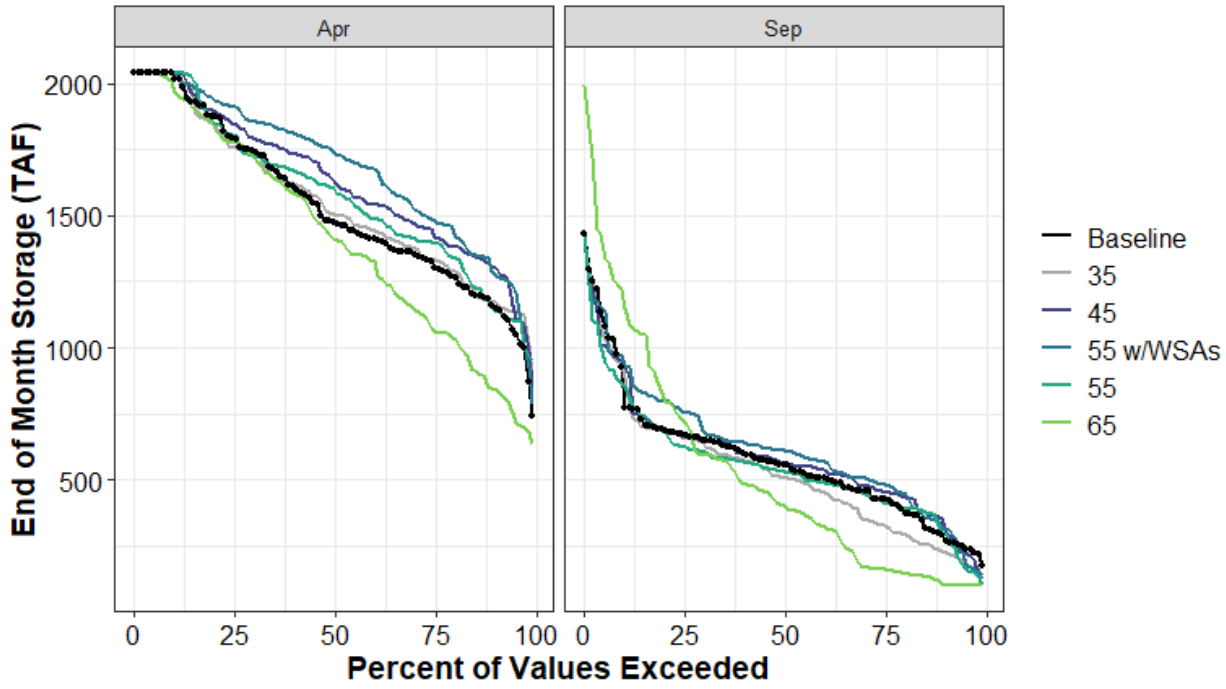

Figure H1a3-153. Total San Luis Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

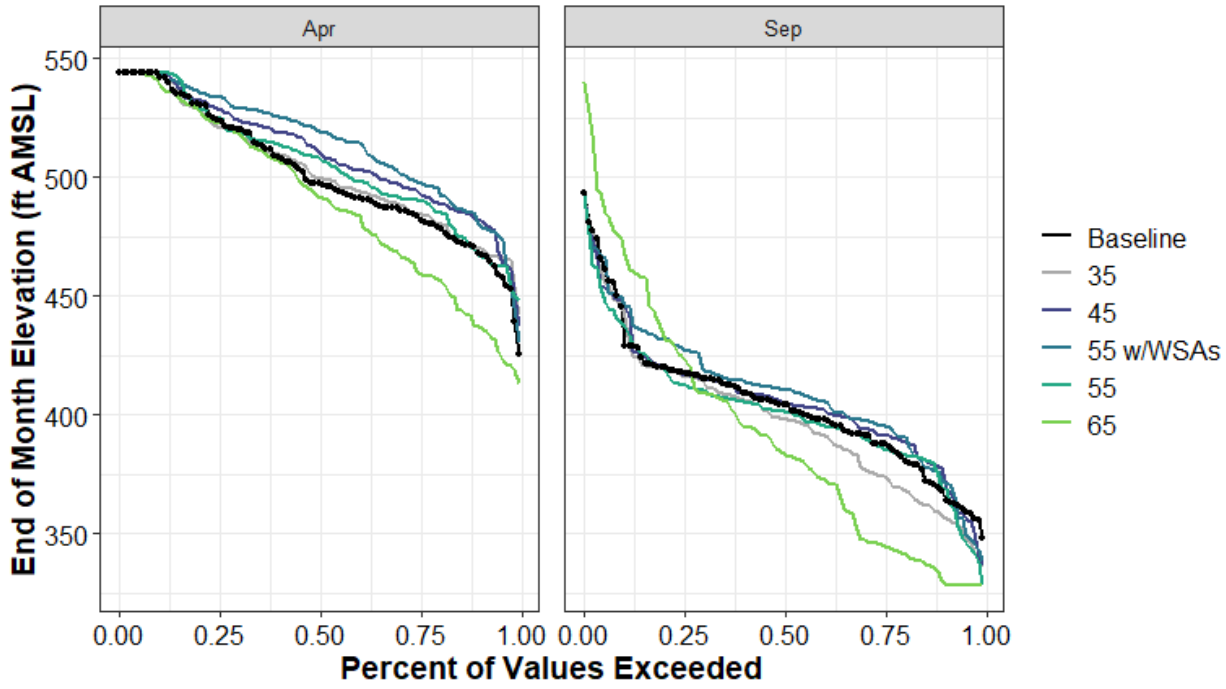

Figure H1a3-154. Total San Luis Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-309. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	176	-48	-47	-39	-76	-76
10%	285	-57	59	36	12	-179
25%	428	-98	28	57	-14	-268
50%	557	-48	7	53	-25	-157
75%	671	-13	-8	88	-44	51
90%	804	97	130	135	48	360
100%	1,430	-3	-5	-7	-6	559
Mean	575	-44	12	45	-24	-52

Table H1a3-310. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	348	-12	-12	-10	-20	-20
10%	367	-10	9	6	2	-37
25%	388	-14	4	7	-2	-43
50%	404	-6	1	6	-3	-20
75%	418	-2	-1	10	-5	6
90%	432	10	14	14	5	36
100%	493	0	0	-1	0	47
Mean	404	-6	2	5	-3	-12

Table H1a3-311. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	740	152	106	44	212	-106
10%	1,156	19	148	131	-7	-311
25%	1,313	21	122	170	85	-245
50%	1,477	27	154	261	129	-68
75%	1,793	-35	54	118	11	-18
90%	2,022	17	17	17	17	-44
100%	2,039	0	0	0	0	0
Mean	1,536	16	95	145	46	-115

Table H1a3-312. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Total San Luis Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	426	16	11	5	23	-12
10%	468	2	14	12	-1	-31
25%	483	2	11	15	8	-23
50%	497	2	13	22	11	-6
75%	524	-3	4	10	1	-1
90%	543	1	1	1	1	-4
100%	544	0	0	0	0	0
Mean	502	1	8	13	4	-11

H1a3.5.50 Trinity Reservoir (Trinity River Watershed)

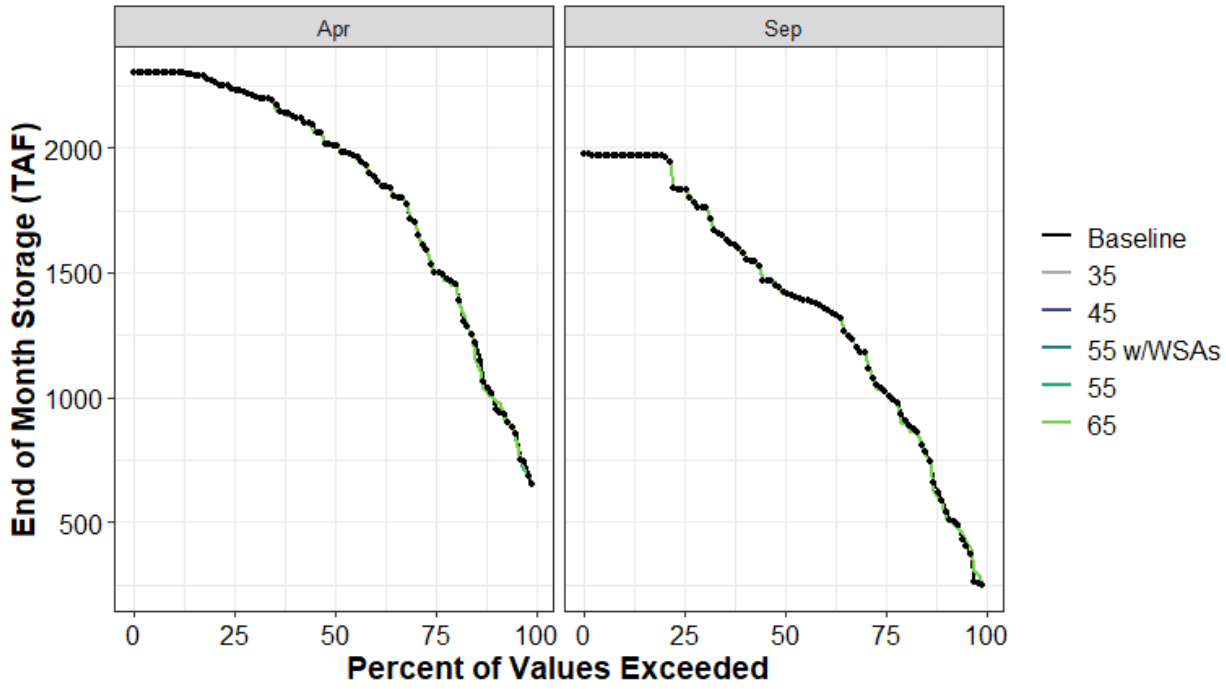

Figure H1a3-155. Trinity Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

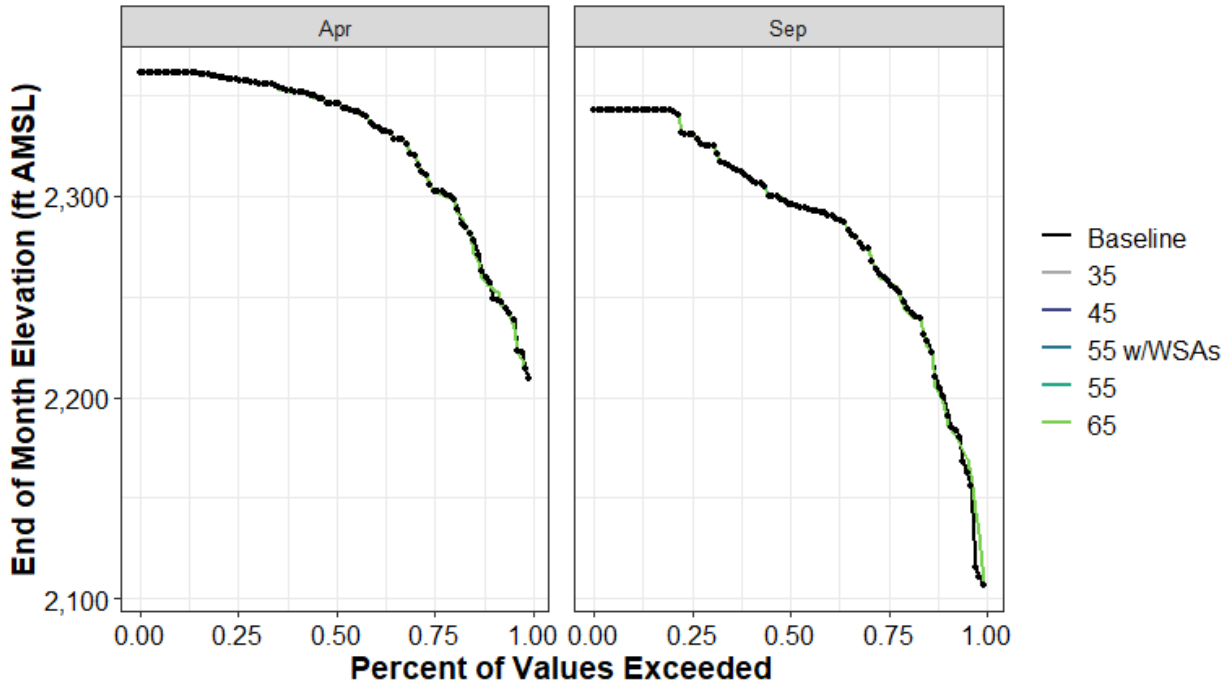

Figure H1a3-156. Trinity Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-313. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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	0
Mean	1,379	-1	-1	-1	-1	-1

Table H1a3-314. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-315. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35	45	55 w/WSAs	55	65
0%	650	29	29	29	29	29
10%	1,004	-6	-6	-6	-5	-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 H1a3-316. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Trinity Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.51 Union Valley Reservoir (American River Watershed)

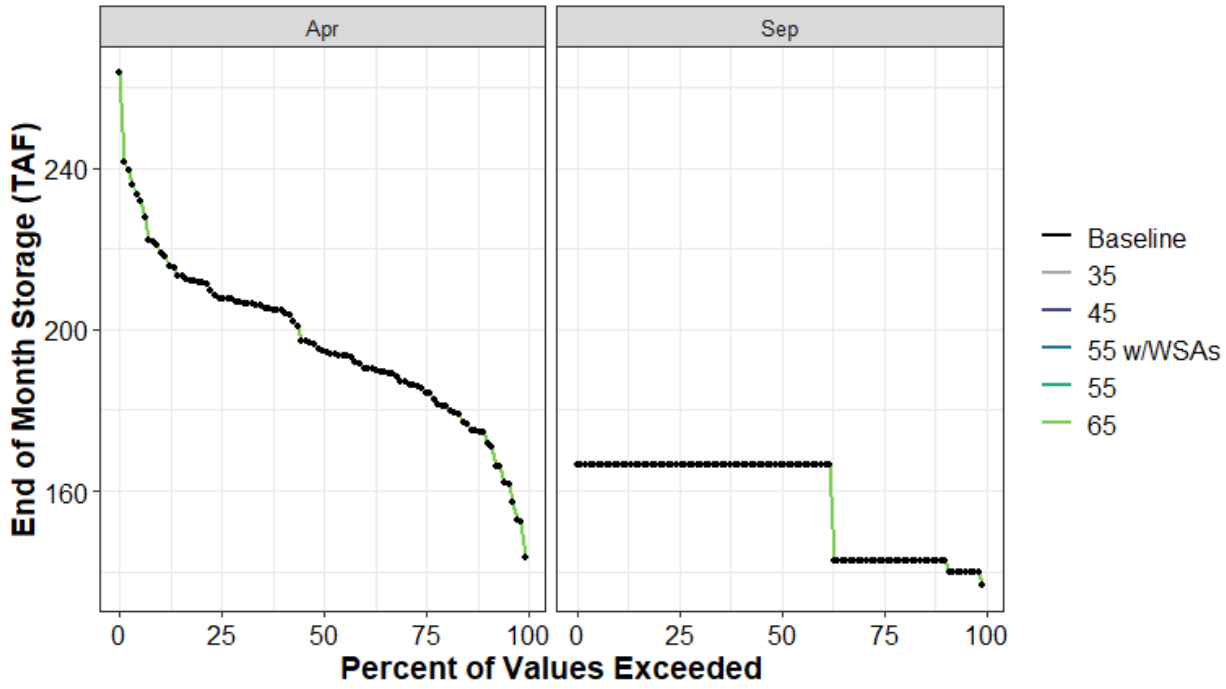

Figure H1a3-157. Union Valley Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

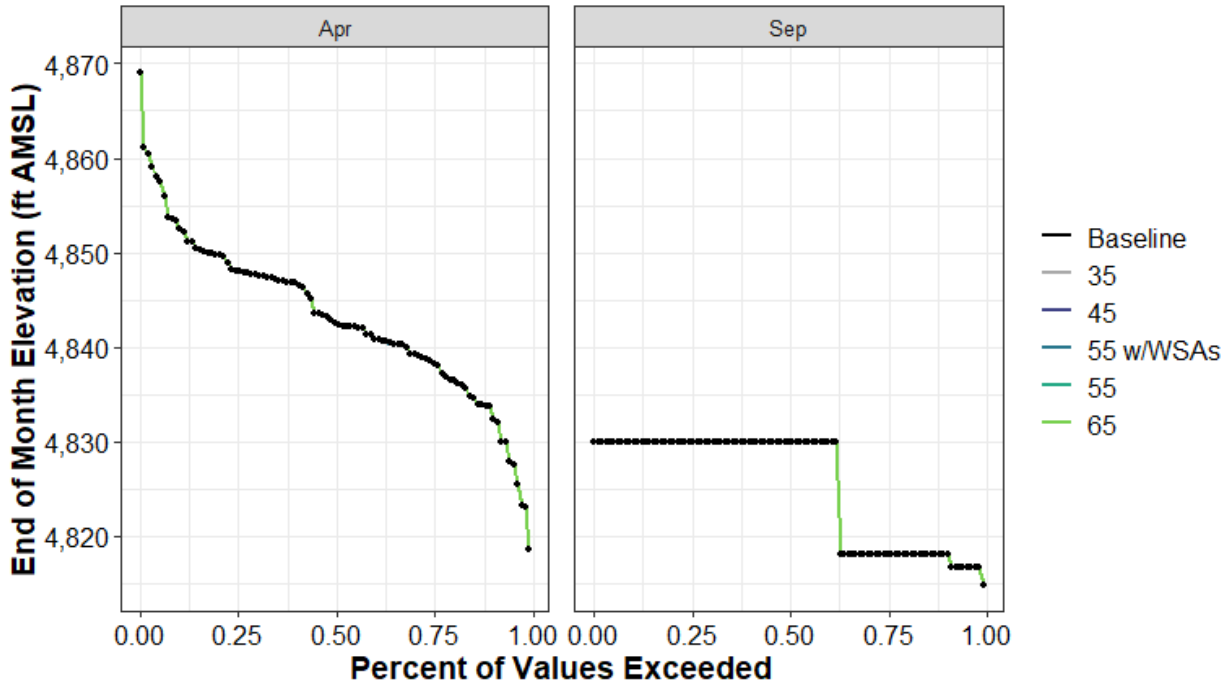

Figure H1a3-158. Union Valley Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-317. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-318. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-319. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-320. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Union Valley Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.5.52 Whiskeytown Reservoir (Clear Creek Watershed)

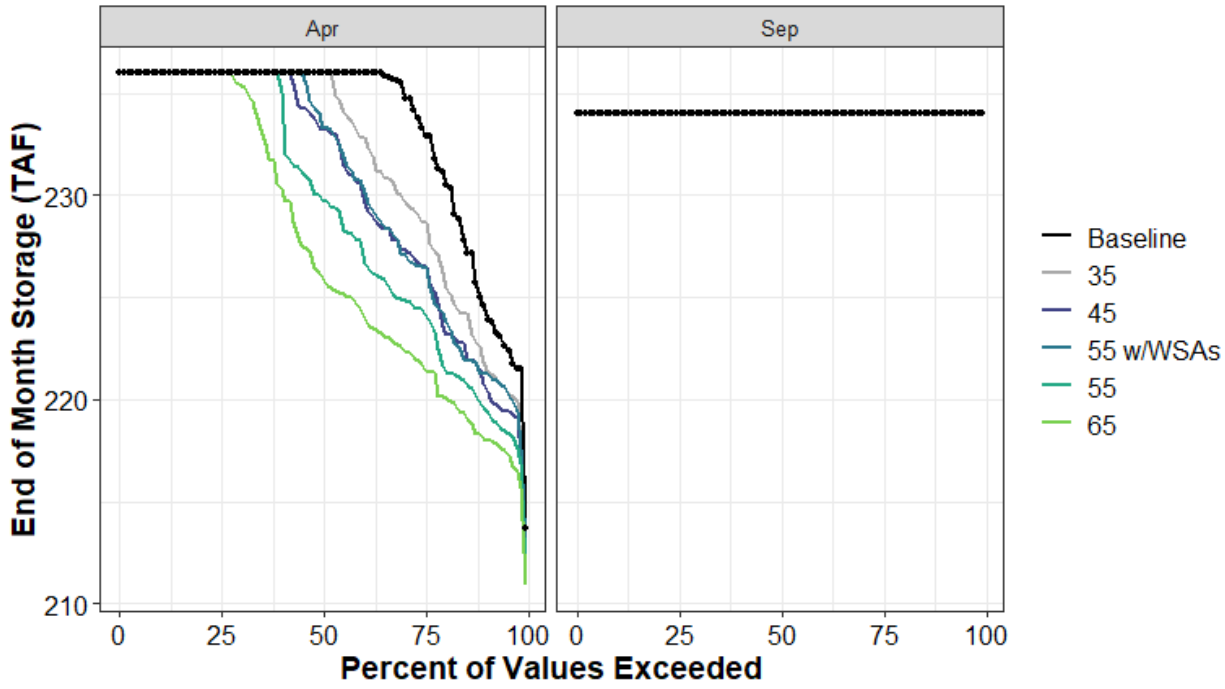

Figure H1a3-159. Whiskeytown Reservoir End of April and End of September Storage (TAF) Percent Exceedance Plot

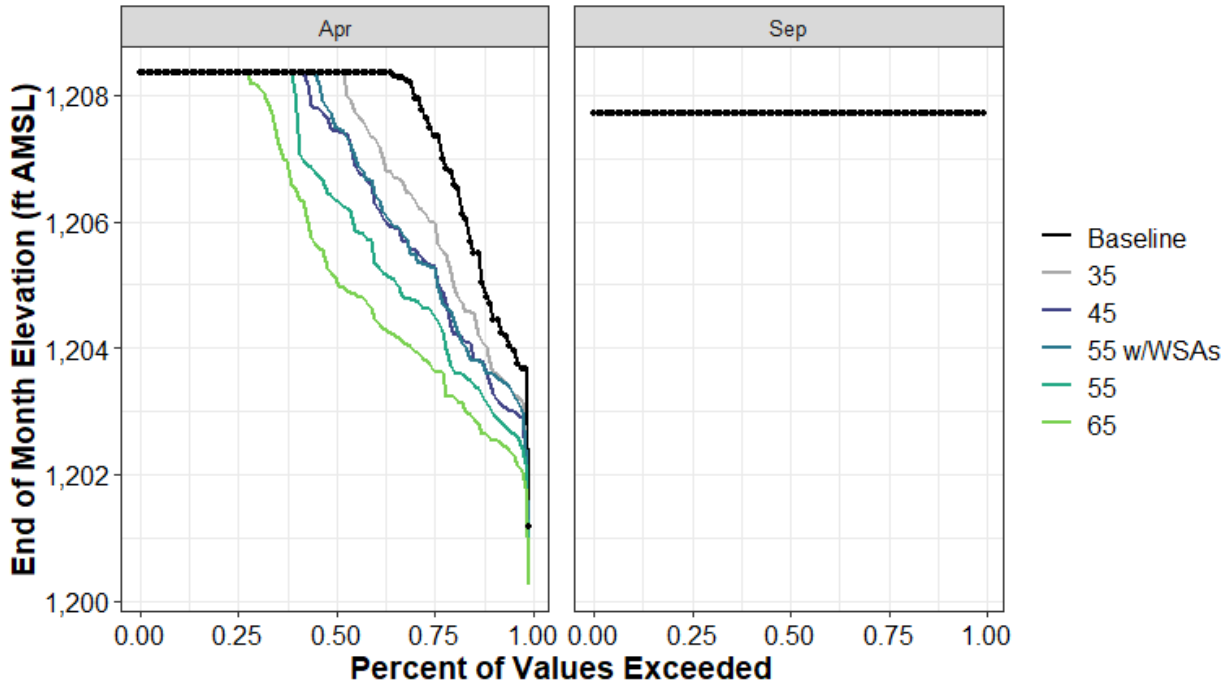

Figure H1a3-160. Whiskeytown Reservoir End-of-April and End-of-September Elevation (ft AMSL) Percent Exceedance Plot

Table H1a3-321. Distribution of Baseline End-of-September Carryover Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-322. Distribution of Baseline End-of-September Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-323. Distribution of Baseline End-of-April Storage (TAF) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-324. Distribution of Baseline End-of-April Storage Elevation (ft AMSL) and Absolute Difference by Scenario for Whiskeytown Reservoir

	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6 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 H1a3-325 show constant supplies for all water years in all scenarios summarized, and are not presented further in this appendix.

Table H1a3-325. Water Budget Areas and Demand Site Groups with Constant Supply in all Water Years of all Scenarios.

WBA or Demand Site Group	Demand Type	Annual Supply (TAF)
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

H1a3.6.1 Water Budget Area 2 (Agricultural)

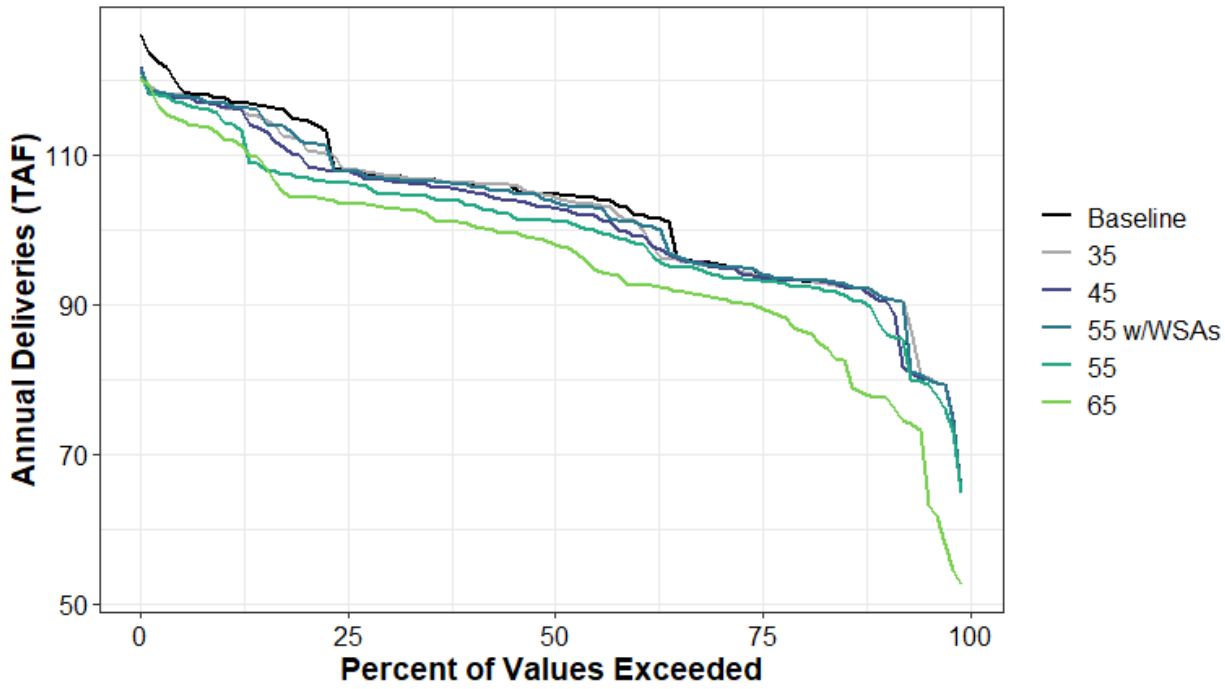

Figure H1a3-161. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-326. Total Water Supplied to Water Budget Area 2 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	126	122	122	121	120	120
10%	118	116	116	117	114	112
20%	115	111	109	112	107	104
30%	107	107	107	107	105	103
40%	106	106	105	106	103	101
50%	105	104	103	104	101	98
60%	102	101	99	101	98	93
70%	95	95	95	95	94	91
80%	93	93	93	93	92	87
90%	91	91	91	91	87	78
100%	65	65	65	65	65	53
Mean	103	102	101	102	100	95

Table H1a3-327. Total Water Supplied to Water Budget Area 2 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	111	105	102	107	95	84
D	105	106	105	104	104	101
BN	105	105	104	105	102	96
AN	100	100	100	100	100	98
W	97	97	97	97	97	96
All	103	102	101	102	100	95

H1a3.6.2 Water Budget Area 2 (Urban)

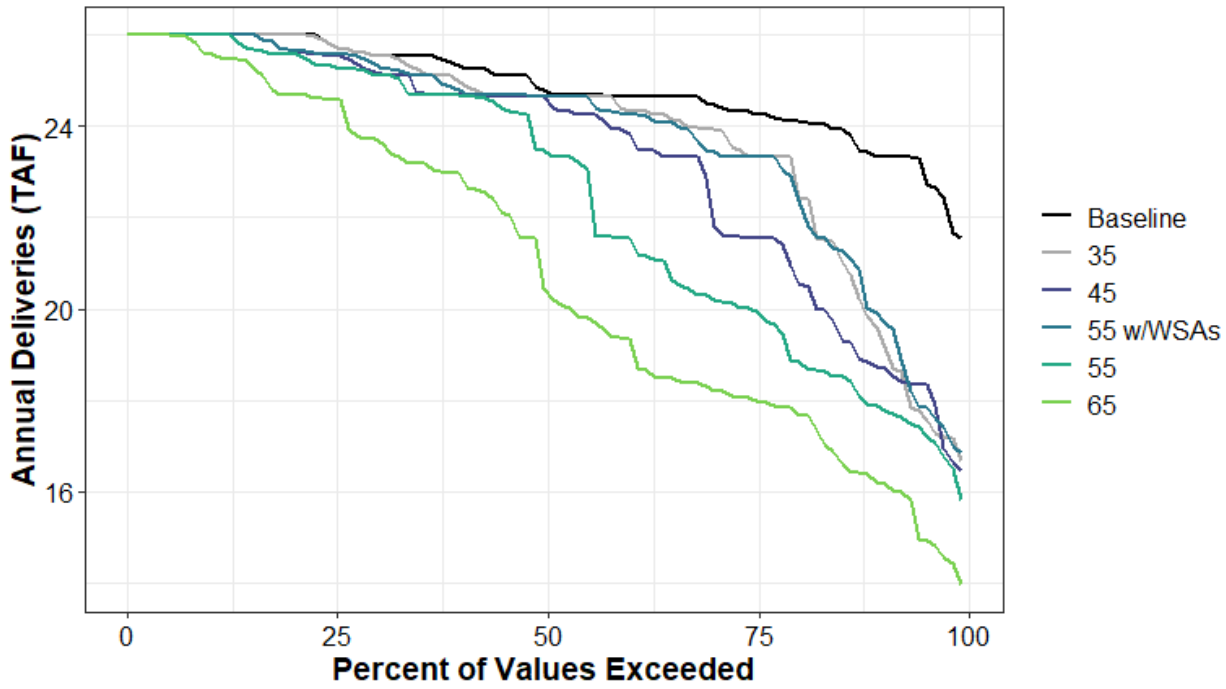

Figure H1a3-162. Total Water Supplied to Water Budget Area 2 (Urban) Annual Percent Exceedance Plot.

Table H1a3-328. Total Water Supplied to Water Budget Area 2 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	26	26	26	26	26	26
10%	26	26	26	26	26	25.6
20%	26	26	25.7	25.7	25.6	24.7
30%	25.5	25.5	25.2	25.3	25.1	23.7
40%	25.3	24.9	24.7	24.8	24.7	22.9
50%	24.8	24.7	24.6	24.7	23.5	20.5
60%	24.7	24.4	23.9	24.2	21.6	19.4
70%	24.5	23.9	22.2	23.5	20.2	18.3
80%	24.1	23	20.8	22.7	18.9	17.8
90%	23.3	19.5	18.7	19.9	17.9	16.2
100%	21.6	16.7	16.5	16.8	15.8	14
Mean	24.9	23.9	23.3	23.8	22.5	20.9

Table H1a3-329. Total Water Supplied to Water Budget Area 2 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	24.3	19.3	19.1	19.6	18.6	16.8
D	24.8	24.1	22.6	24	20.2	18.2
BN	24.4	24.3	23.7	24.1	22.6	19.9
AN	25.5	25.4	25.1	25.2	25.1	23.5
W	25.3	25.3	25.2	25.2	25.2	24.7
All	24.9	23.9	23.3	23.8	22.5	20.9

H1a3.6.3 Water Budget Area 3 (Agricultural)

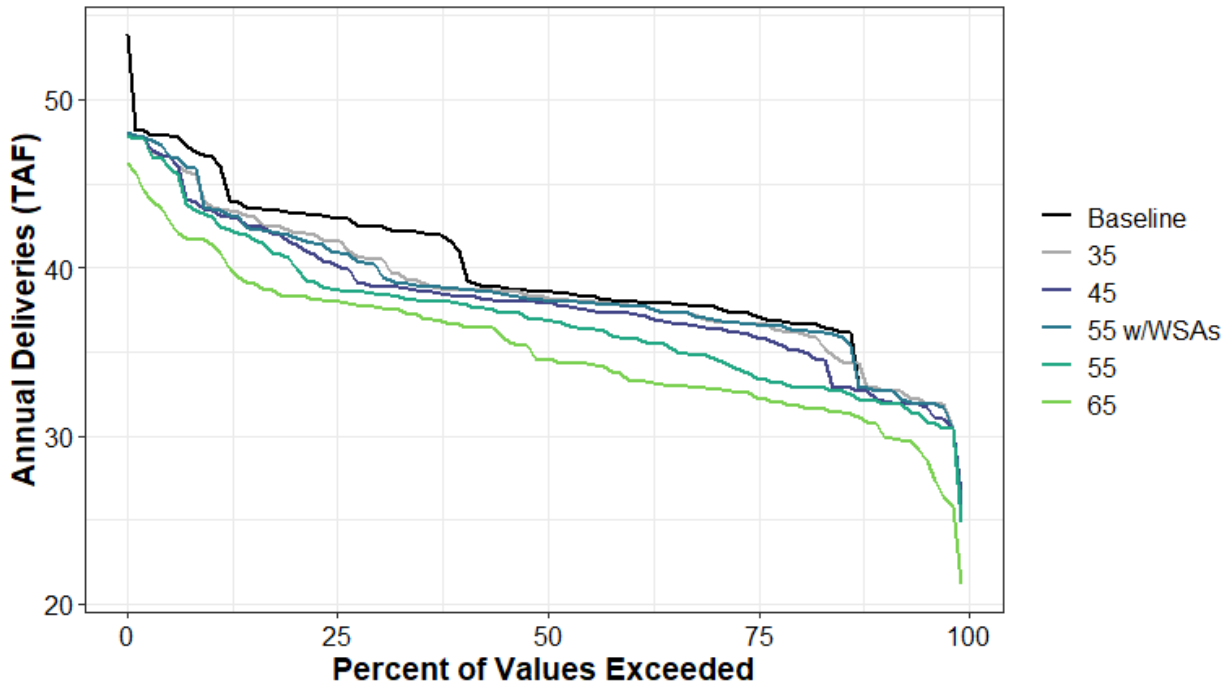

Figure H1a3-163. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-330. Total Water Supplied to Water Budget Area 3 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	54	48	48	48	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	37
50%	39	38	38	38	37	34
60%	38	38	37	38	36	33
70%	38	37	36	37	35	33
80%	37	36	35	36	33	32
90%	33	33	32	33	32	31
100%	26	26	26	26	25	21
Mean	40	39	38	39	37	35

Table H1a3-331. Total Water Supplied to Water Budget Area 3 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	44	39	38	39	36	34
D	41	40	39	40	36	34
BN	39	39	39	39	38	34
AN	37	37	37	37	37	36
W	38	38	38	38	38	38
All	40	39	38	39	37	35

H1a3.6.4 Water Budget Area 3 (Urban)

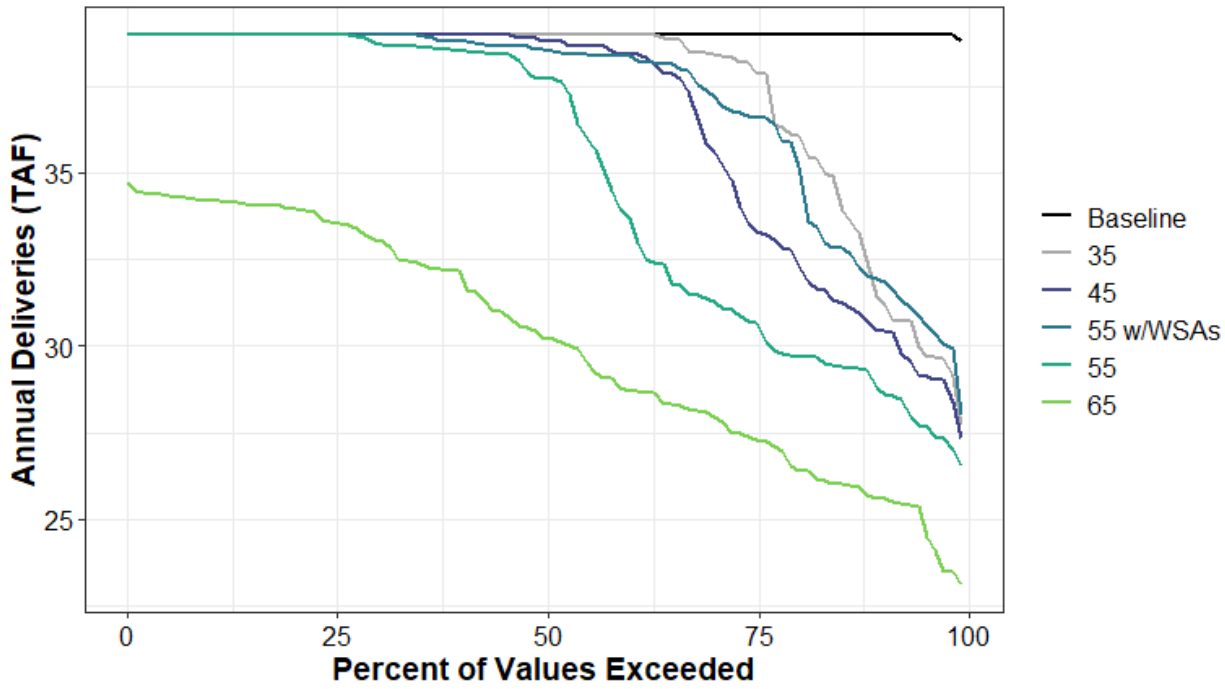

Figure H1a3-164. Total Water Supplied to Water Budget Area 3 (Urban) Annual Percent Exceedance Plot.

Table H1a3-332. Total Water Supplied to Water Budget Area 3 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	39	32
50%	39	39	39	39	38	30
60%	39	39	38	38	34	29
70%	39	38	36	37	31	28
80%	39	36	33	36	30	26
90%	39	31	30	32	29	26
100%	39	28	27	28	27	23
Mean	39	37	37	37	35	30

Table H1a3-333. Total Water Supplied to Water Budget Area 3 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	39	32	31	32	30	27
D	39	37	35	36	31	27
BN	39	39	38	38	36	29
AN	39	39	39	39	38	33
W	39	39	39	39	39	34
All	39	37	37	37	35	30

H1a3.6.5 Water Budget Areas 4 and 6 (Agricultural)

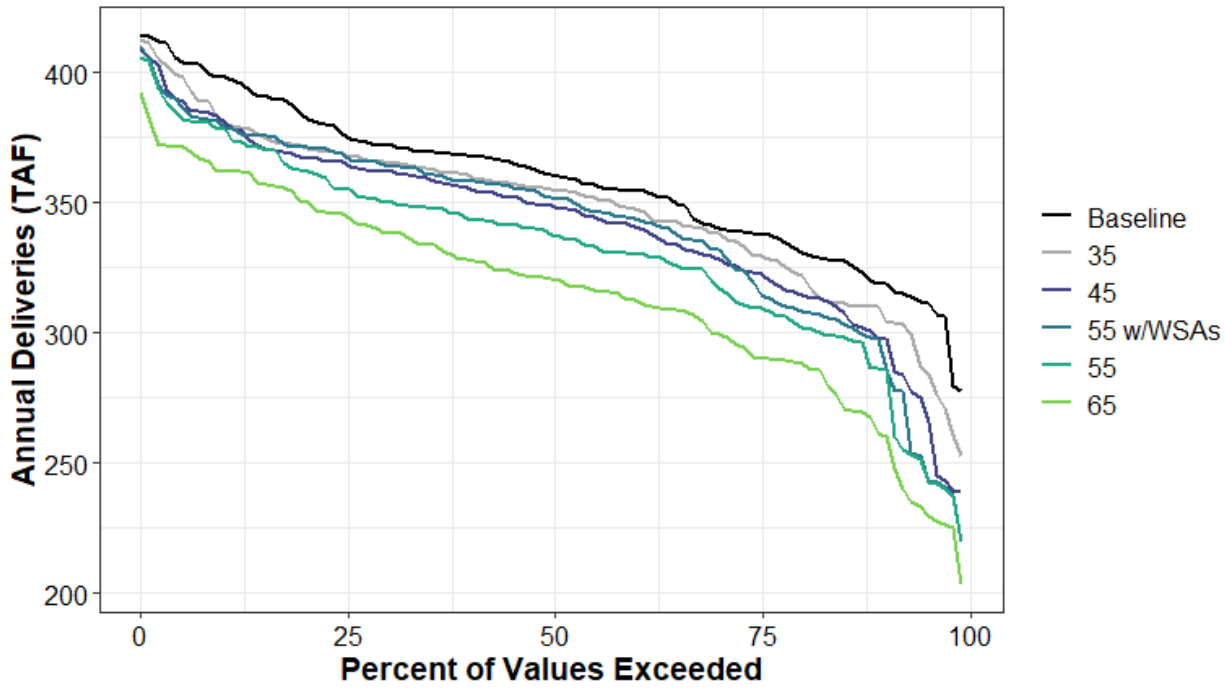

Figure H1a3-165. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-334. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	415	413	409	410	406	392
10%	398	381	381	380	378	362
20%	383	371	367	371	362	350
30%	372	365	362	364	350	338
40%	368	360	355	358	344	328
50%	361	355	349	352	338	321
60%	355	348	341	344	330	313
70%	341	338	329	332	318	300
80%	332	323	315	309	303	289
90%	319	309	298	295	286	261
100%	277	252	239	220	220	203
Mean	359	348	341	341	332	316

Table H1a3-335. Total Water Supplied to Water Budget Areas 4 and 6 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	385	363	356	362	345	337
D	369	364	358	362	349	334
BN	364	361	358	360	348	329
AN	343	339	332	333	327	309
W	340	325	315	306	304	285
All	359	348	341	341	332	316

H1a3.6.6 Water Budget Area 5 (Agricultural)

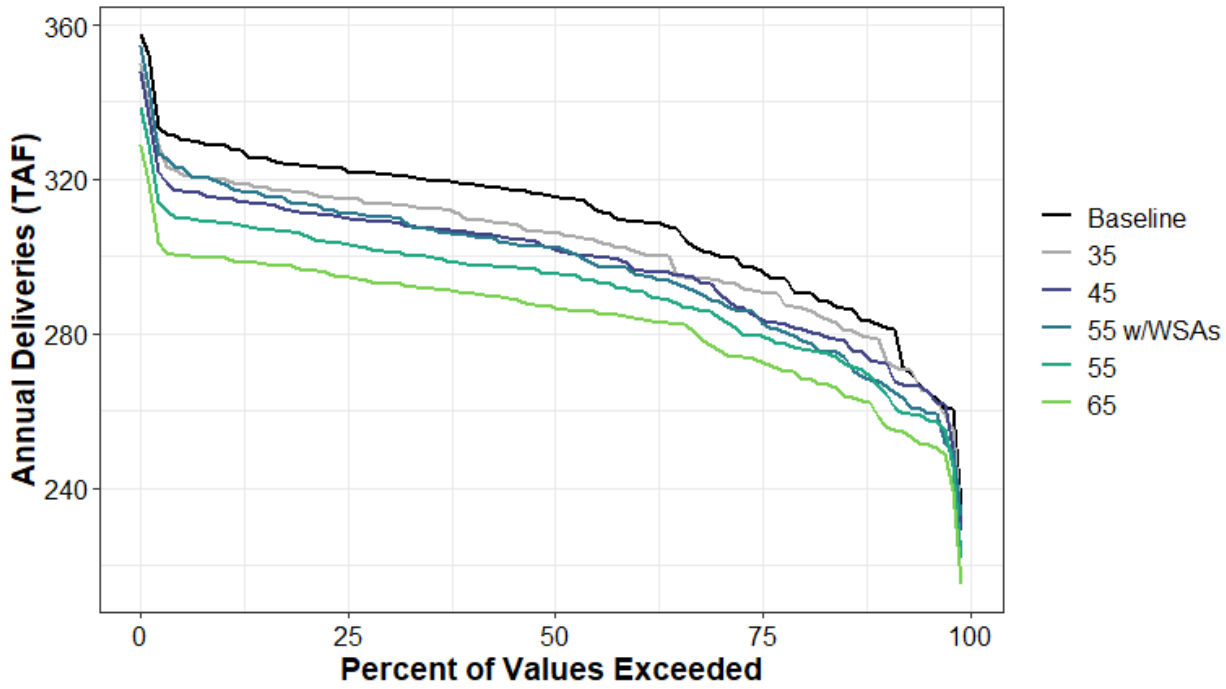

Figure H1a3-166. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-336. Total Water Supplied to Water Budget Area 5 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-337. Total Water Supplied to Water Budget Area 5 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.7 Water Budget Area 7 (Agricultural)

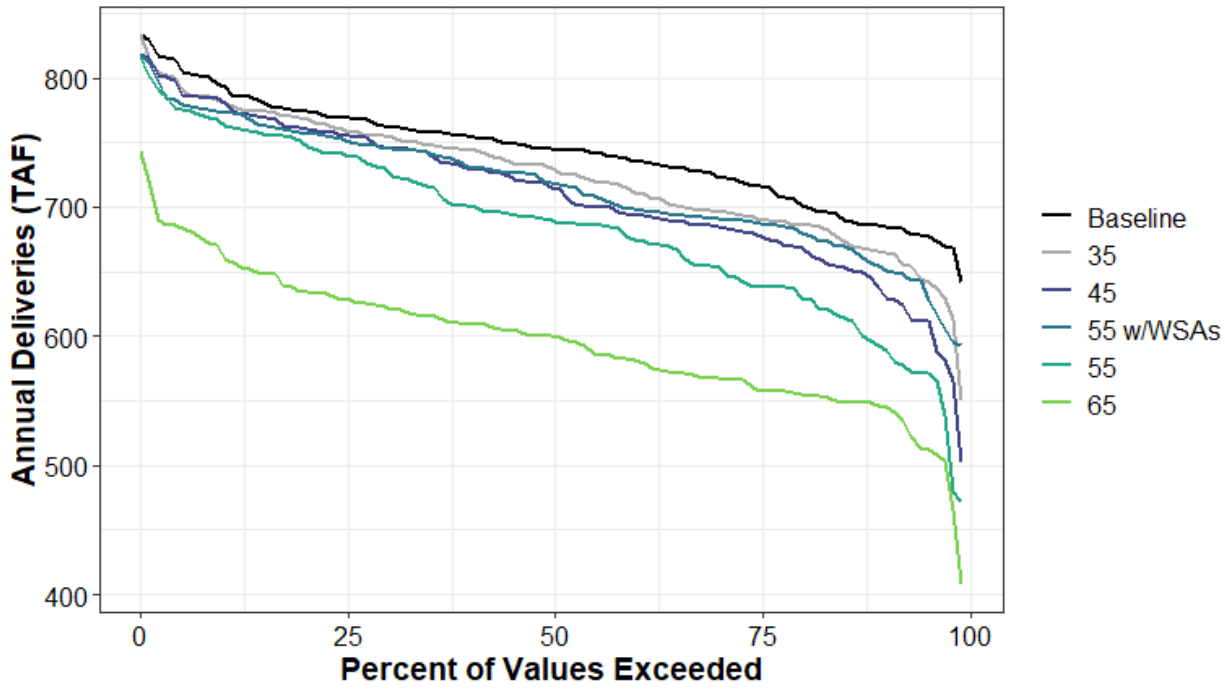

Figure H1a3-167. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-338. Total Water Supplied to Water Budget Area 7 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	834	834	819	818	816	742
10%	794	781	781	774	764	662
20%	775	768	760	757	749	634
30%	762	755	746	745	728	622
40%	755	744	730	731	701	610
50%	745	731	715	719	689	600
60%	736	712	694	698	675	582
70%	724	697	686	691	653	567
80%	704	686	669	682	634	555
90%	686	666	637	654	592	546
100%	642	550	502	593	472	408
Mean	743	725	710	716	684	597

Table H1a3-339. Total Water Supplied to Water Budget Area 7 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	754	681	670	674	660	649
D	758	728	687	706	632	592
BN	758	758	739	745	680	580
AN	734	735	734	732	729	587
W	719	720	720	720	720	587
All	743	725	710	716	684	597

H1a3.6.8 Water Budget Area 8 (Agricultural)

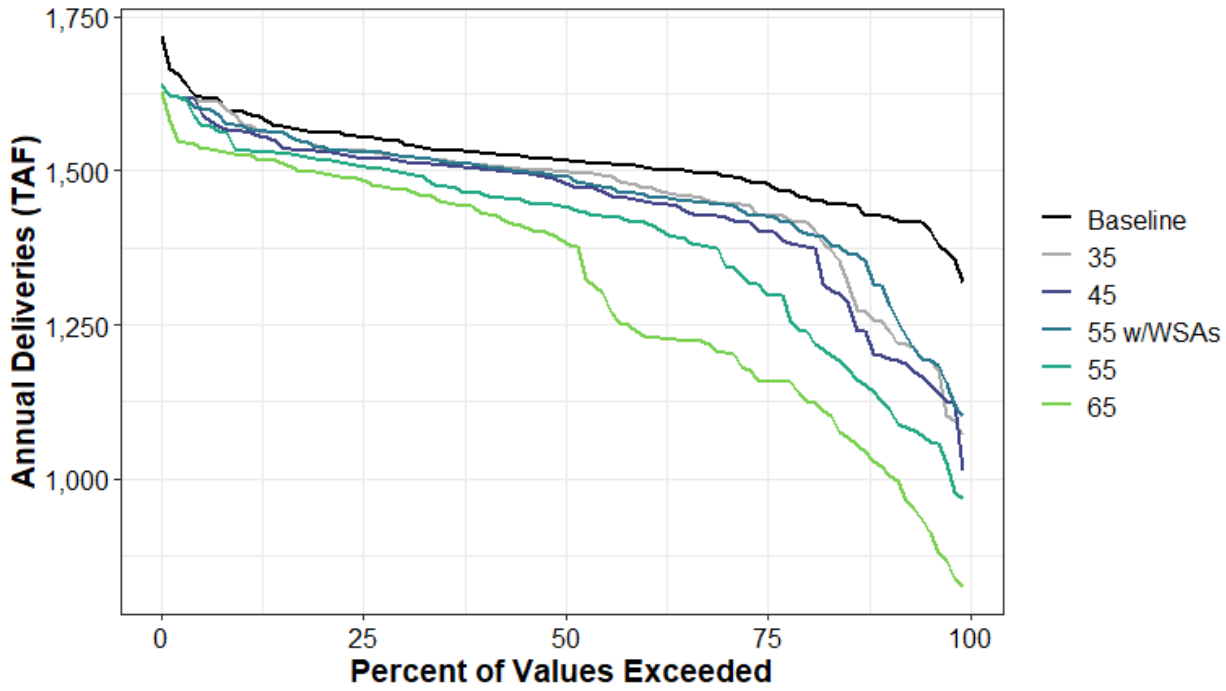

Figure H1a3-168. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-340. Total Water Supplied to Water Budget Area 8 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	1,718	1,639	1,640	1,641	1,638	1,627
10%	1,596	1,578	1,563	1,573	1,533	1,526
20%	1,562	1,537	1,531	1,538	1,518	1,497
30%	1,545	1,523	1,515	1,524	1,498	1,469
40%	1,528	1,510	1,503	1,507	1,462	1,431
50%	1,517	1,497	1,482	1,491	1,443	1,386
60%	1,506	1,474	1,451	1,462	1,417	1,233
70%	1,492	1,447	1,425	1,446	1,356	1,205
80%	1,458	1,416	1,379	1,402	1,242	1,133
90%	1,426	1,252	1,199	1,308	1,124	1,017
100%	1,318	1,072	1,012	1,102	968	825
Mean	1,514	1,460	1,440	1,462	1,391	1,309

Table H1a3-341. Total Water Supplied to Water Budget Area 8 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,572	1,240	1,200	1,271	1,106	1,022
D	1,540	1,532	1,482	1,516	1,360	1,178
BN	1,526	1,531	1,517	1,530	1,475	1,339
AN	1,483	1,489	1,488	1,488	1,490	1,474
W	1,470	1,470	1,470	1,469	1,472	1,475
All	1,514	1,460	1,440	1,462	1,391	1,309

H1a3.6.9 Water Budget Area 8 (Refuge)

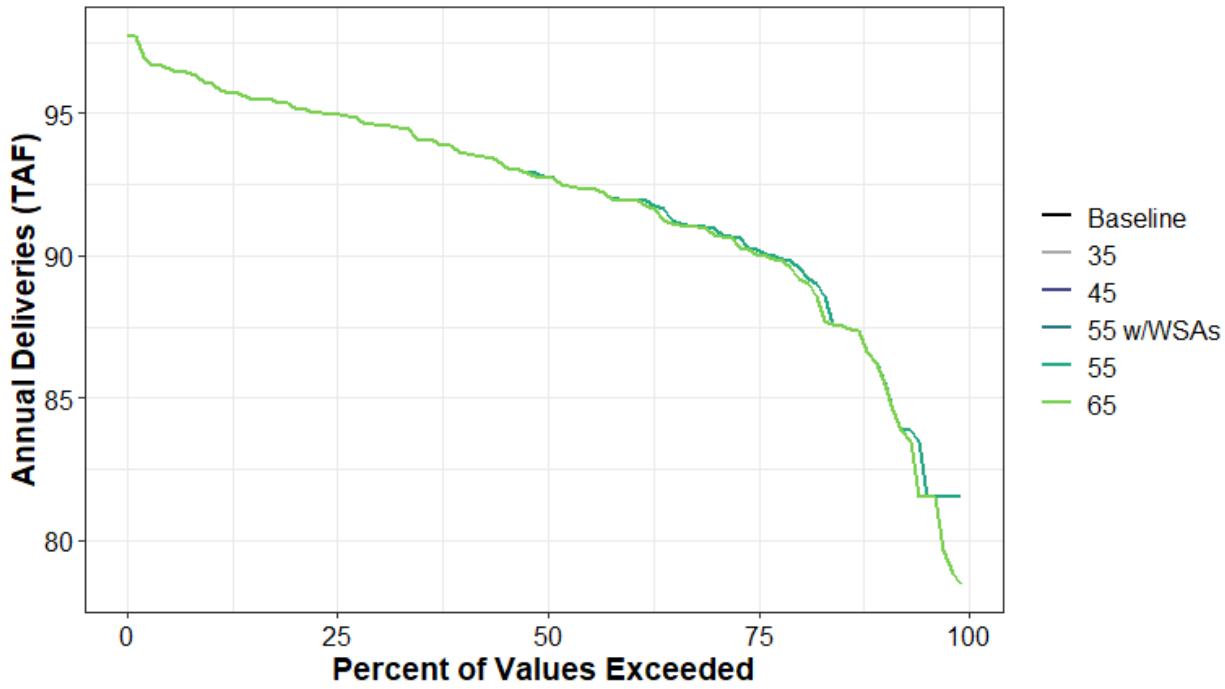

Figure H1a3-169. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Percent Exceedance Plot.

Table H1a3-342. Total Water Supplied to Water Budget Area 8 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-343. Total Water Supplied to Water Budget Area 8 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.10 Water Budget Area 9 (Agricultural)

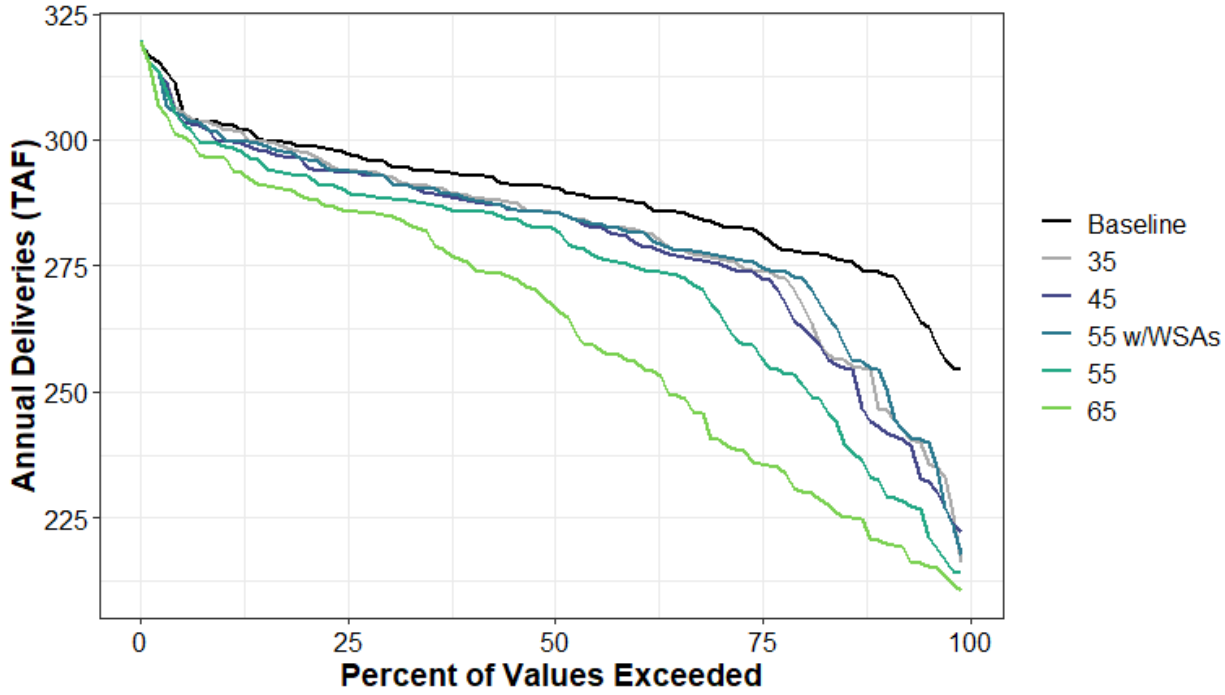

Figure H1a3-170. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-344. Total Water Supplied to Water Budget Area 9 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	320	320	320	320	320	319
10%	303	302	300	300	299	296
20%	299	298	295	296	293	289
30%	295	293	292	292	288	285
40%	293	289	288	288	286	275
50%	291	286	285	286	282	268
60%	288	282	280	282	275	256
70%	283	277	276	277	266	241
80%	278	269	264	273	253	231
90%	274	247	243	254	232	221
100%	254	216	222	218	214	211
Mean	289	281	279	281	274	262

Table H1a3-345. Total Water Supplied to Water Budget Area 9 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	297	247	242	253	231	227
D	294	294	291	290	274	242
BN	294	295	293	295	290	272
AN	284	285	286	286	286	284
W	279	279	280	280	280	281
All	289	281	279	281	274	262

H1a3.6.11 Water Budget Area 9 (Refuge)

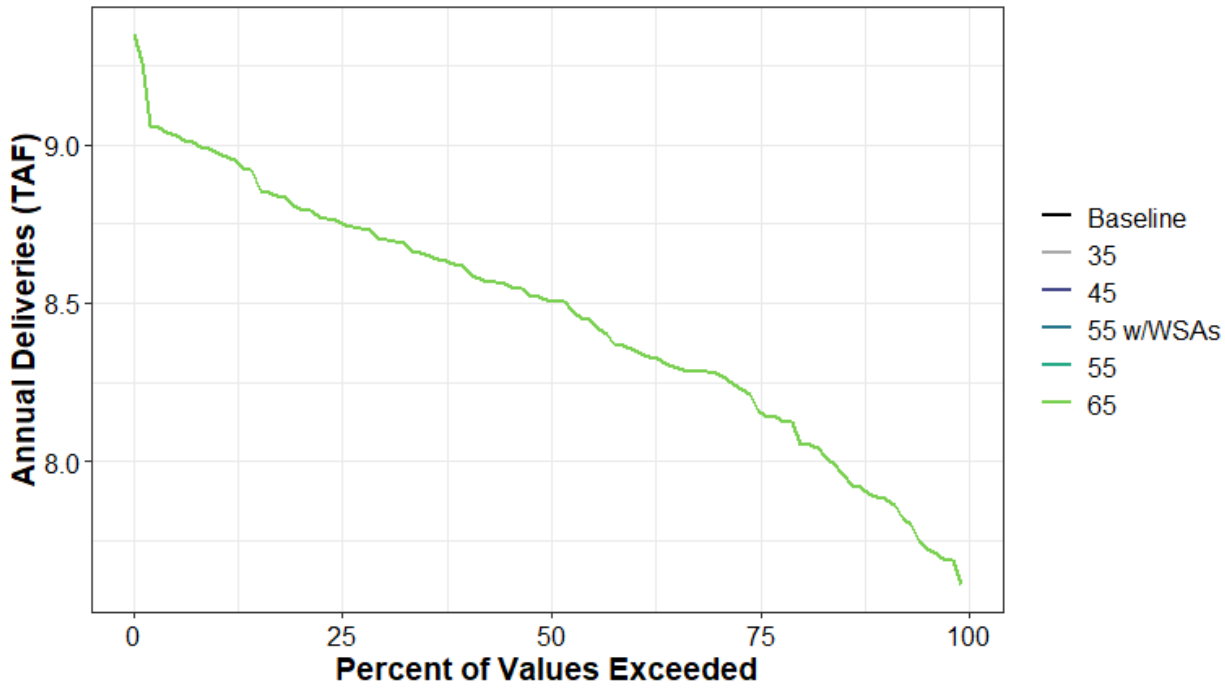

Figure H1a3-171. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Percent Exceedance Plot.

Table H1a3-346. Total Water Supplied to Water Budget Area 9 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-347. Total Water Supplied to Water Budget Area 9 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.12 Water Budget Area 10 (Agricultural)

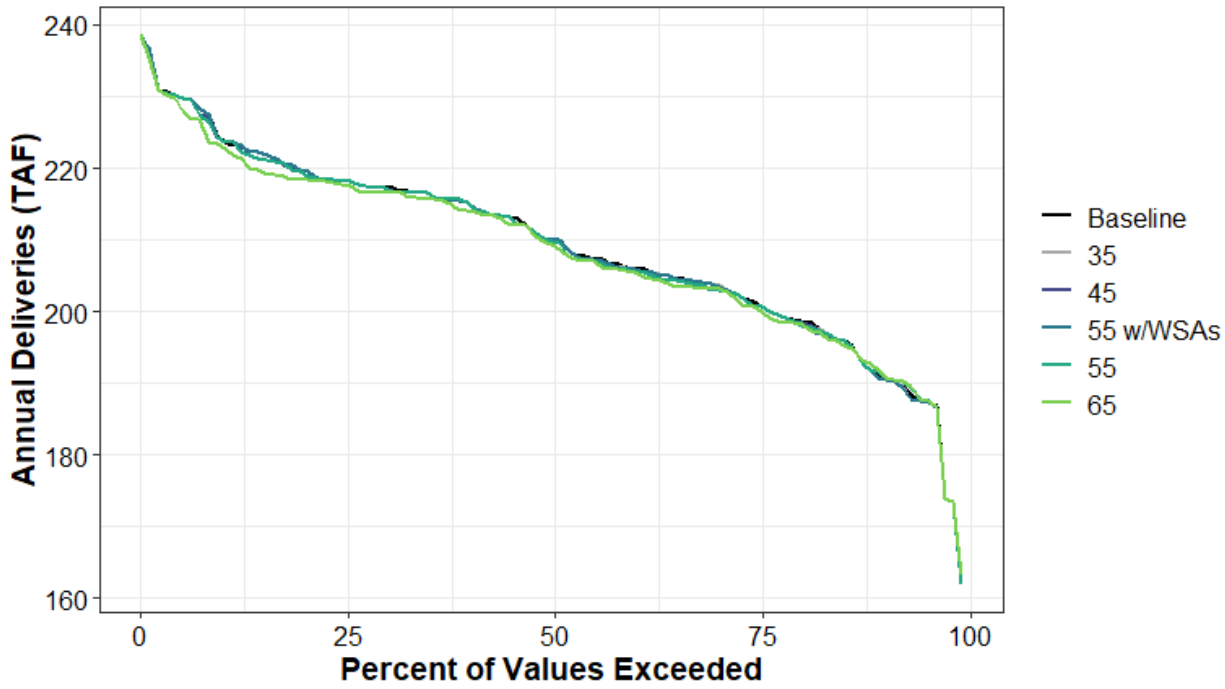

Figure H1a3-172. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-348. Total Water Supplied to Water Budget Area 10 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	239	239	239	239	239	239
10%	224	224	224	224	224	223
20%	220	220	220	220	219	218
30%	217	217	217	217	217	217
40%	215	215	215	215	215	214
50%	210	210	210	210	210	209
60%	206	206	206	206	206	206
70%	204	204	204	204	203	203
80%	199	199	199	199	198	198
90%	191	191	191	191	191	192
100%	162	162	162	162	162	163
Mean	209	209	209	209	209	208

Table H1a3-349. Total Water Supplied to Water Budget Area 10 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.13 Water Budget Area 11 (Agricultural)

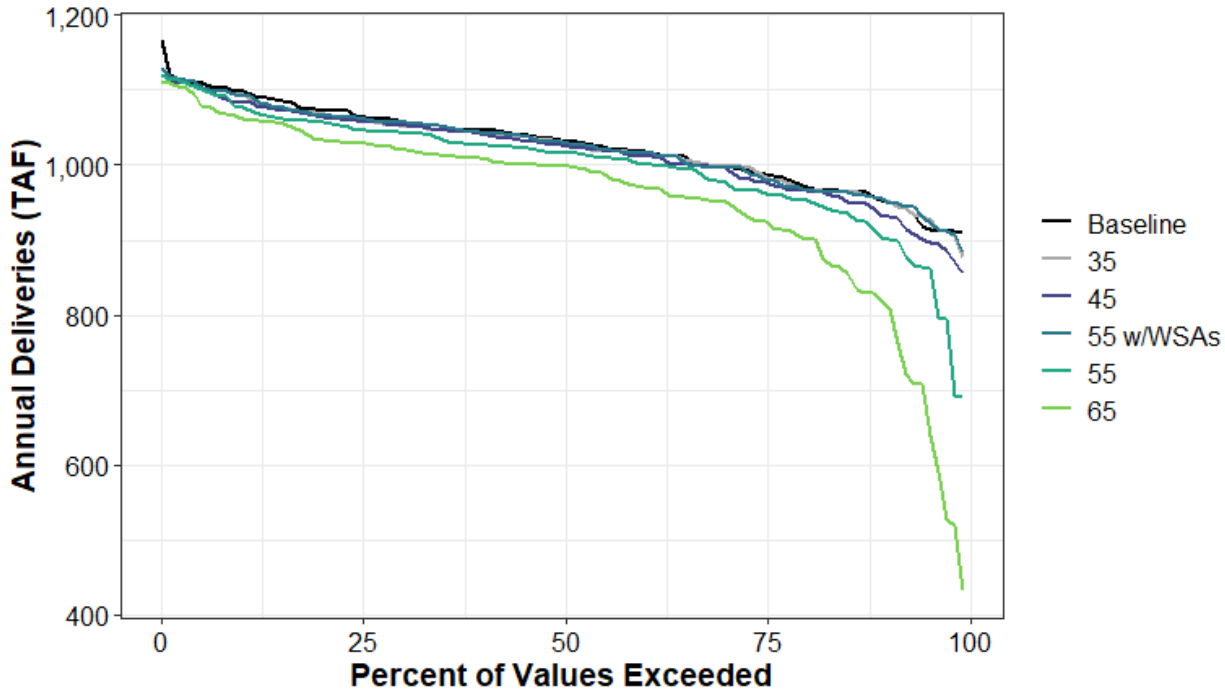

Figure H1a3-173. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-350. Total Water Supplied to Water Budget Area 11 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	1,167	1,120	1,120	1,129	1,120	1,111
10%	1,098	1,094	1,084	1,093	1,077	1,063
20%	1,074	1,069	1,065	1,066	1,057	1,033
30%	1,059	1,053	1,054	1,058	1,043	1,020
40%	1,046	1,043	1,042	1,044	1,027	1,009
50%	1,034	1,032	1,026	1,030	1,016	999
60%	1,018	1,014	1,012	1,016	1,002	972
70%	999	1,000	997	997	977	951
80%	974	967	967	969	953	903
90%	953	955	931	954	903	816
100%	910	878	855	885	691	432
Mean	1,027	1,023	1,017	1,024	999	955

Table H1a3-351. Total Water Supplied to Water Budget Area 11 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,048	1,019	1,008	1,032	950	844
D	1,054	1,056	1,049	1,056	1,026	985
BN	1,042	1,045	1,036	1,045	1,029	962
AN	1,008	1,010	1,007	1,011	1,001	975
W	993	992	990	988	987	980
All	1,027	1,023	1,017	1,024	999	955

H1a3.6.14 Water Budget Area 11 (Refuge)

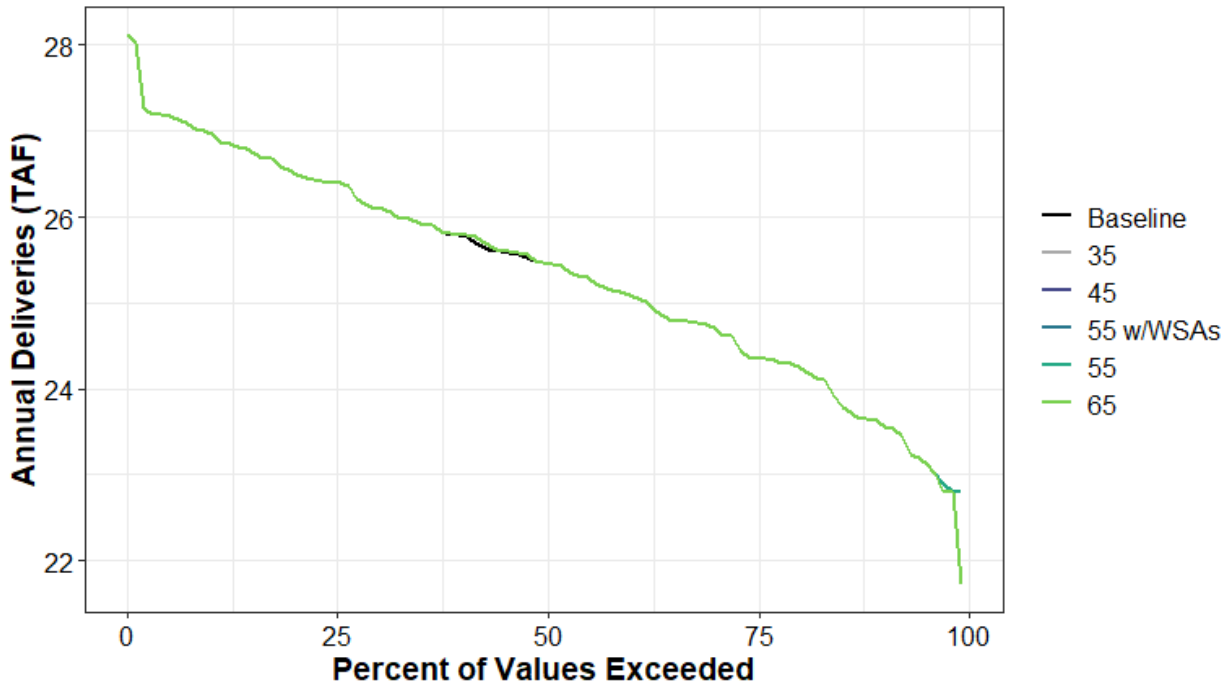

Figure H1a3-174. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Percent Exceedance Plot.

Table H1a3-352. Total Water Supplied to Water Budget Area 11 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-353. Total Water Supplied to Water Budget Area 11 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.15 Water Budget Area 11 (Urban)

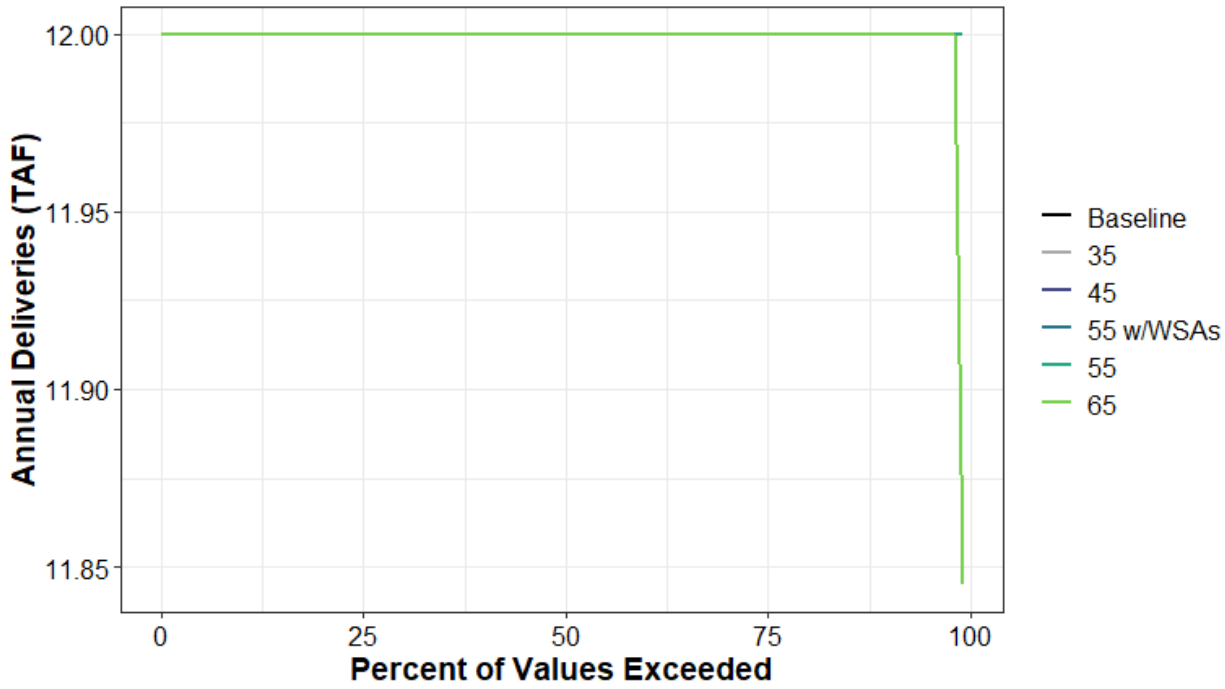

Figure H1a3-175. Total Water Supplied to Water Budget Area 11 (Urban) Annual Percent Exceedance Plot.

Table H1a3-354. Total Water Supplied to Water Budget Area 11 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-355. Total Water Supplied to Water Budget Area 11 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.16 Water Budget Areas 12 and 13 (Agricultural)

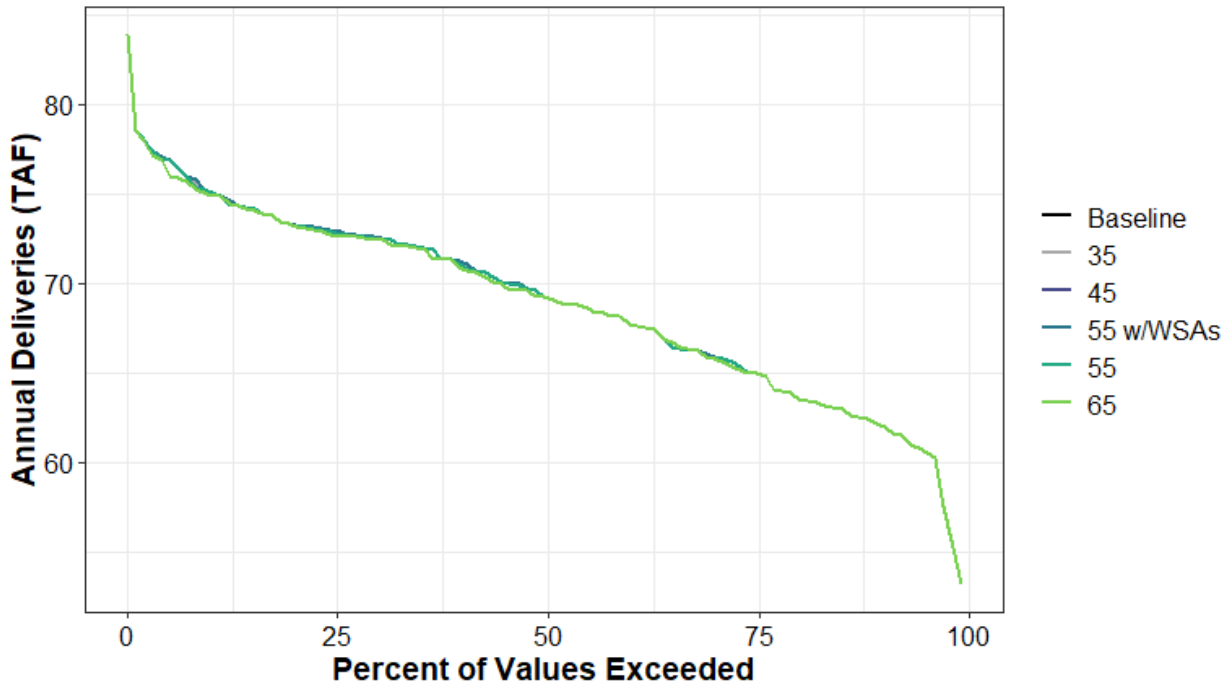

Figure H1a3-176. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-356. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-357. Total Water Supplied to Water Budget Areas 12 and 13 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.17 Water Budget Areas 12 and 13 (Urban)

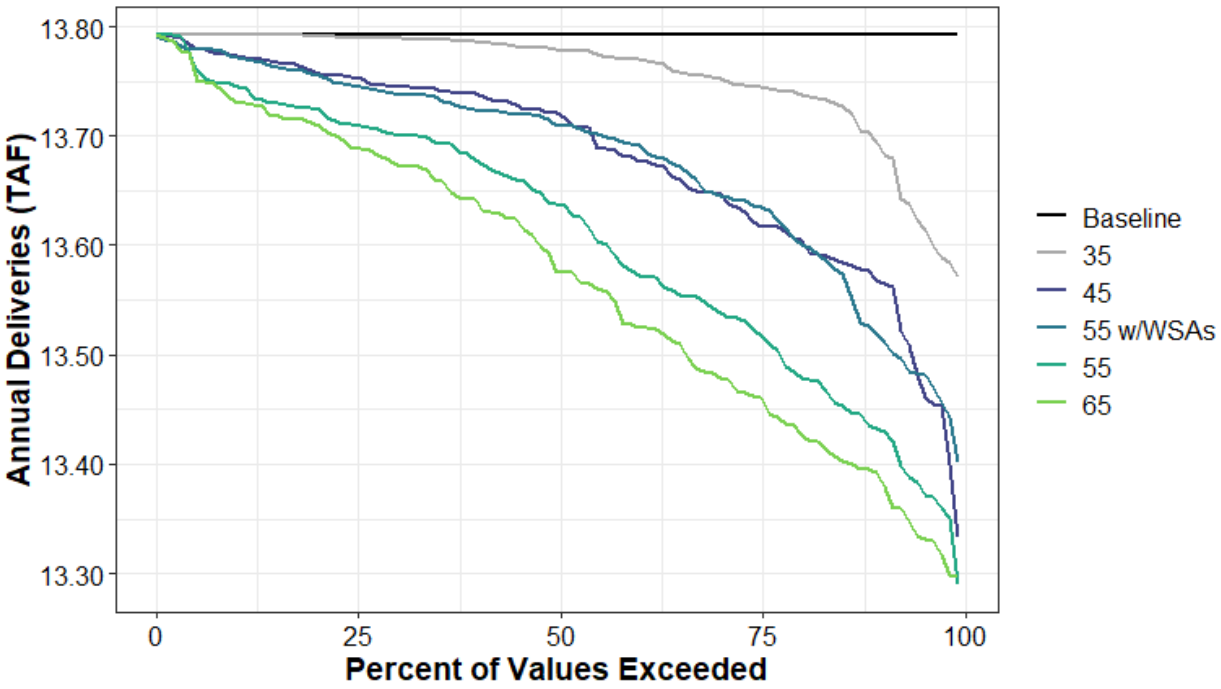

Figure H1a3-177. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Percent Exceedance Plot.

Table H1a3-358. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	13.8	13.8	13.8	13.8	13.8	13.8
10%	13.8	13.8	13.8	13.8	13.7	13.7
20%	13.8	13.8	13.8	13.8	13.7	13.7
30%	13.8	13.8	13.7	13.7	13.7	13.7
40%	13.8	13.8	13.7	13.7	13.7	13.6
50%	13.8	13.8	13.7	13.7	13.6	13.6
60%	13.8	13.8	13.7	13.7	13.6	13.5
70%	13.8	13.8	13.6	13.6	13.5	13.5
80%	13.8	13.7	13.6	13.6	13.5	13.4
90%	13.8	13.7	13.6	13.5	13.4	13.4
100%	13.8	13.6	13.3	13.4	13.3	13.3
Mean	13.8	13.8	13.7	13.7	13.6	13.6

Table H1a3-359. Total Water Supplied to Water Budget Areas 12 and 13 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	13.8	13.8	13.7	13.7	13.7	13.7
D	13.8	13.7	13.6	13.6	13.5	13.5
BN	13.8	13.7	13.6	13.7	13.5	13.5
AN	13.8	13.8	13.7	13.7	13.6	13.5
W	13.8	13.8	13.7	13.7	13.7	13.6
All	13.8	13.8	13.7	13.7	13.6	13.6

H1a3.6.18 Water Budget Areas 14 and 15N (Agricultural)

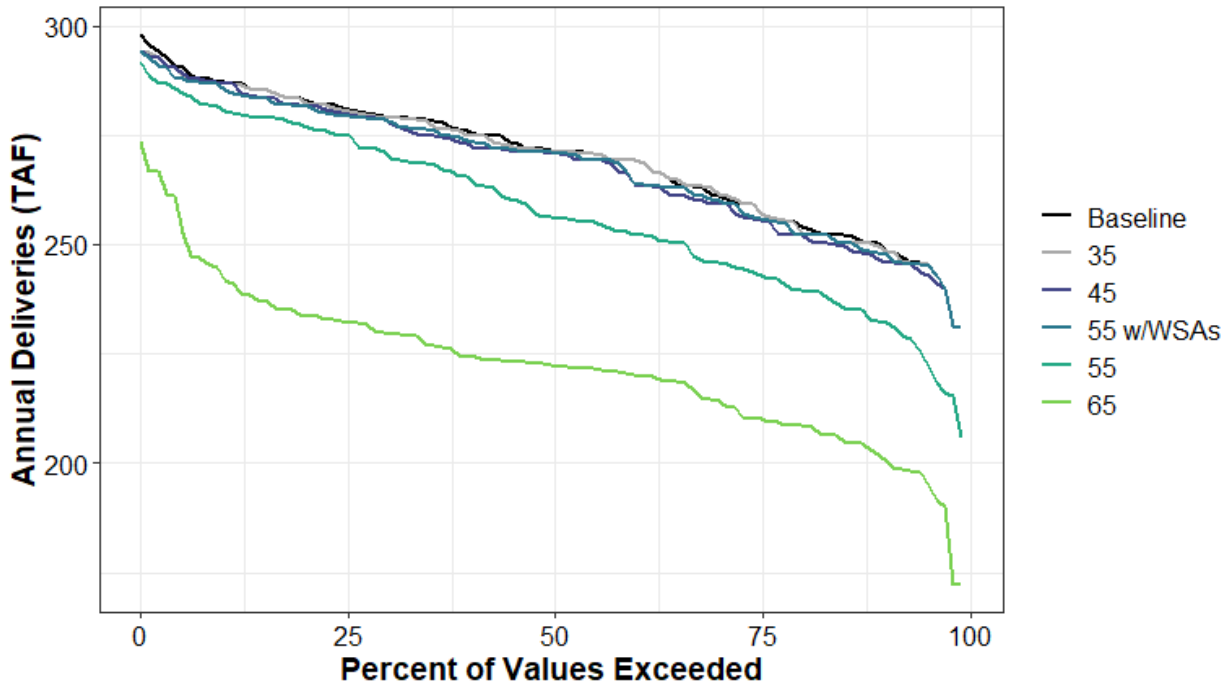

Figure H1a3-178. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-360. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	206	172
Mean	270	269	268	268	257	222

Table H1a3-361. Total Water Supplied to Water Budget Areas 14 and 15N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.19 Water Budget Areas 14 and 15N (Urban)

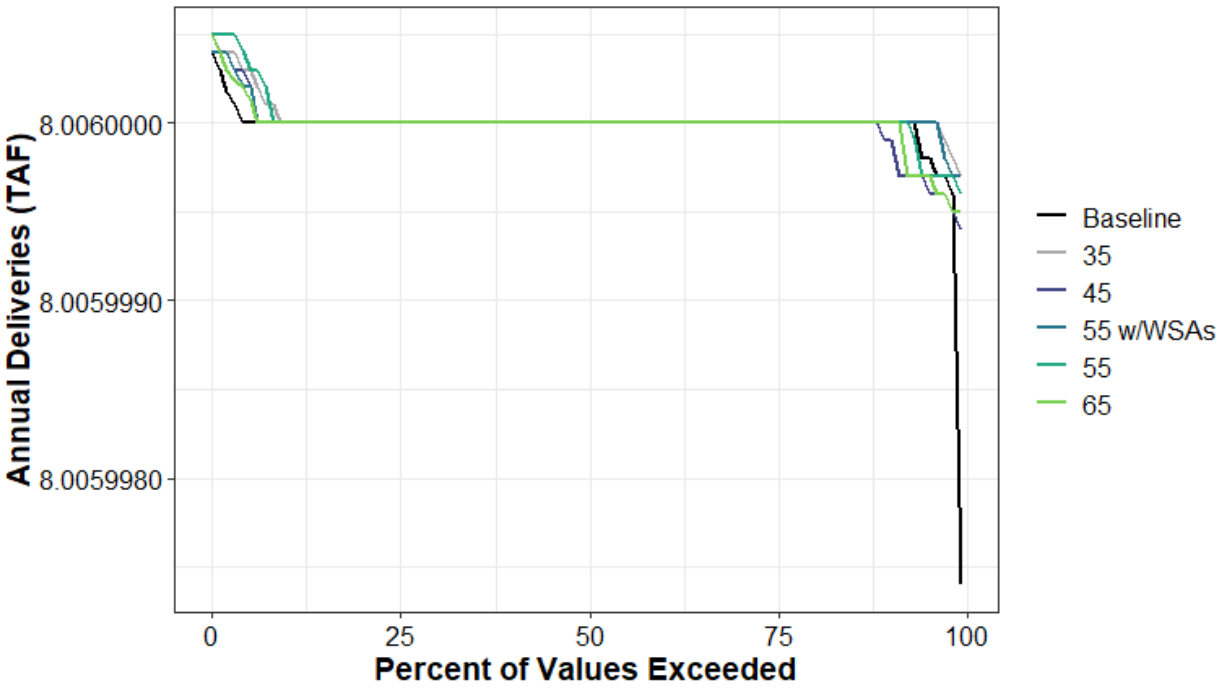

Figure H1a3-179. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Percent Exceedance Plot.

Table H1a3-362. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-363. Total Water Supplied to Water Budget Areas 14 and 15N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.20 Water Budget Area 15S (Agricultural)

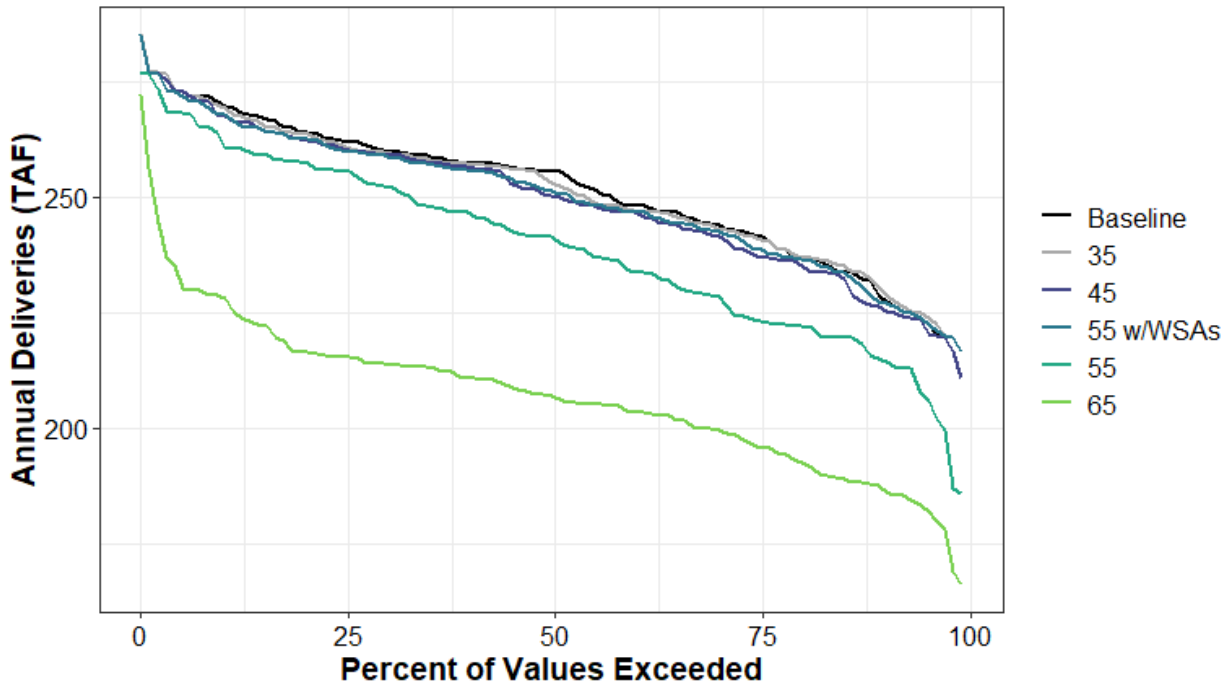

Figure H1a3-180. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-364. Total Water Supplied to Water Budget Area 15S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	211	217	186	166
Mean	252	251	249	250	239	207

Table H1a3-365. Total Water Supplied to Water Budget Area 15S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.21 Water Budget Area 16 (Agricultural)

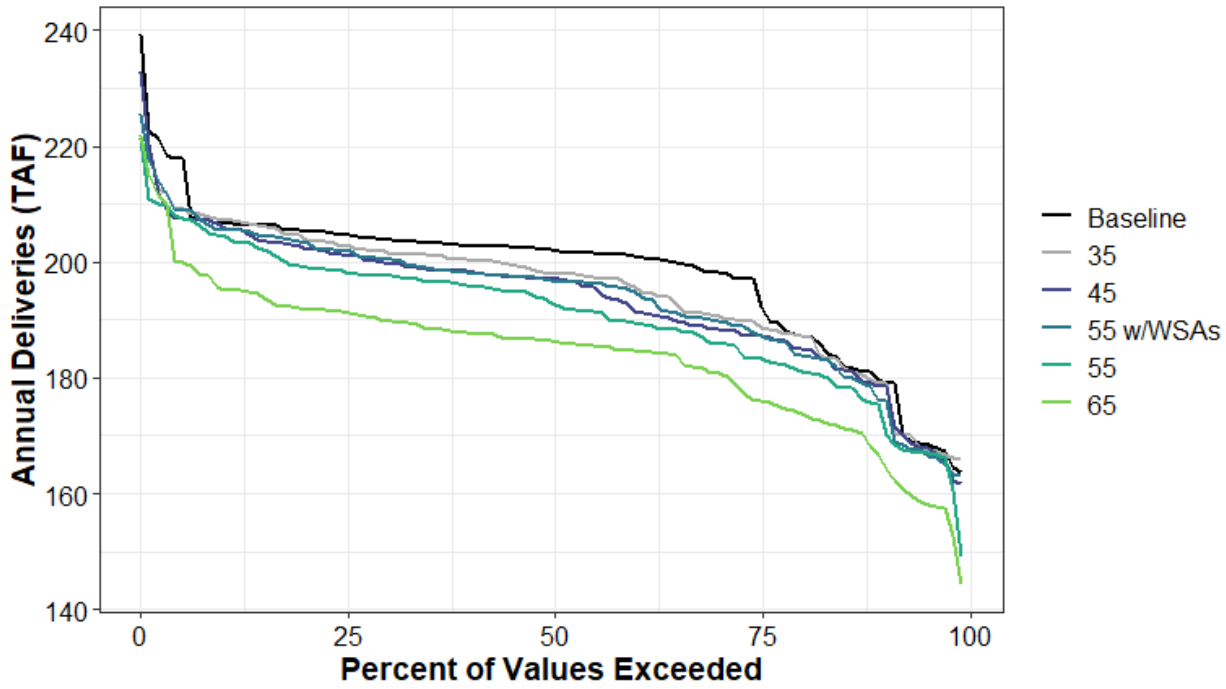

Figure H1a3-181. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-366. Total Water Supplied to Water Budget Area 16 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	239	232	233	226	221	222
10%	207	207	206	206	204	195
20%	205	204	203	203	199	192
30%	204	202	200	200	198	190
40%	203	200	198	198	196	188
50%	202	198	197	197	193	186
60%	201	196	192	195	190	185
70%	198	191	188	190	186	181
80%	187	187	185	184	181	174
90%	180	179	179	176	174	166
100%	164	166	162	163	149	144
Mean	198	195	194	194	191	184

Table H1a3-367. Total Water Supplied to Water Budget Area 16 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	209	201	199	202	197	195
D	202	199	195	196	190	187
BN	198	197	195	195	190	182
AN	194	193	192	192	191	181
W	191	189	189	188	188	179
All	198	195	194	194	191	184

H1a3.6.22 Water Budget Area 16 (Urban)

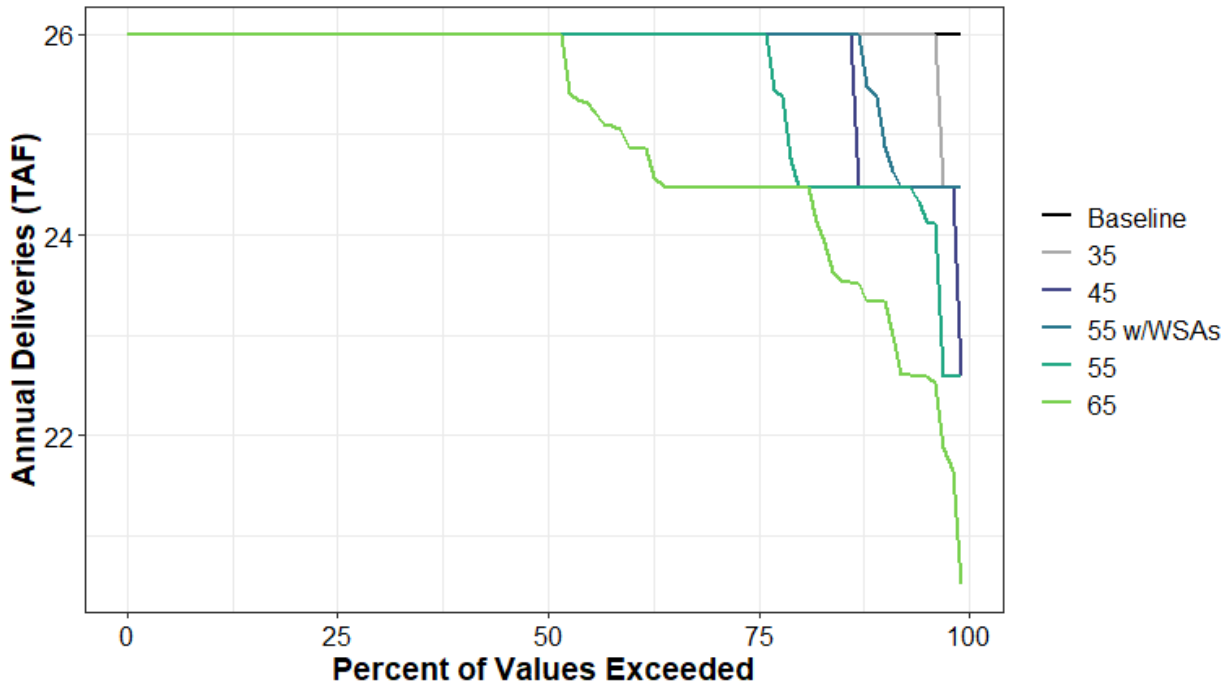

Figure H1a3-182. Total Water Supplied to Water Budget Area 16 (Urban) Annual Percent Exceedance Plot.

Table H1a3-368. Total Water Supplied to Water Budget Area 16 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	24.5
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	26	25.8	25.8	25.6	25.1

Table H1a3-369. Total Water Supplied to Water Budget Area 16 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	26	25.7	25.6	25.6	25.6	25.6
D	26	26	25.6	25.6	25.2	24.8
BN	26	26	25.7	26	25.3	24.1
AN	26	26	26	26	25.8	24.5
W	26	26	26	25.9	26	25.8
All	26	26	25.8	25.8	25.6	25.1

H1a3.6.23 Water Budget Area 17 (Agricultural)

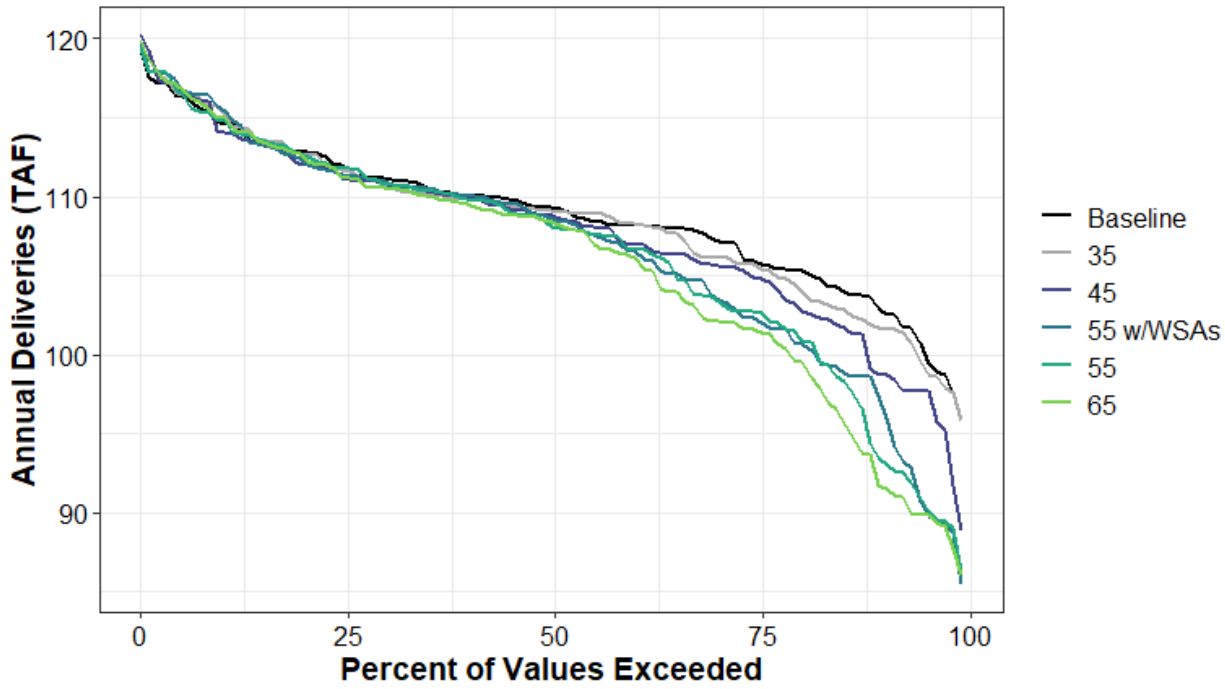

Figure H1a3-183. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-370. Total Water Supplied to Water Budget Area 17 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	119	120	120	120	119	120
10%	115	115	114	115	115	115
20%	113	113	112	112	113	112
30%	111	111	111	111	111	111
40%	110	110	110	110	110	109
50%	109	109	109	109	108	108
60%	108	108	107	107	107	106
70%	107	106	106	104	103	102
80%	105	104	103	101	101	100
90%	103	102	99	97	93	92
100%	96	96	89	85	86	86
Mean	109	109	108	107	107	106

Table H1a3-371. Total Water Supplied to Water Budget Area 17 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	112	112	112	112	112	112
D	110	110	110	110	110	110
BN	110	110	109	109	109	108
AN	107	107	105	105	104	102
W	107	106	104	101	101	100
All	109	109	108	107	107	106

H1a3.6.24 Water Budget Area 17 (Refuge)

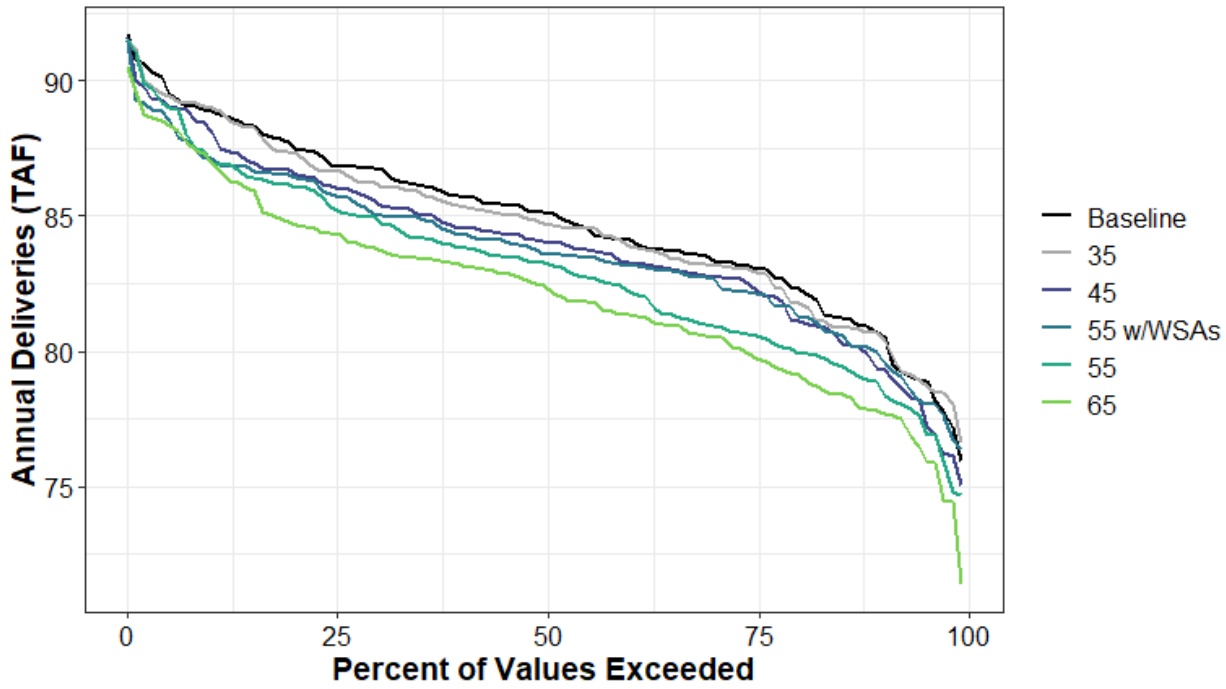

Figure H1a3-184. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Percent Exceedance Plot.

Table H1a3-372. Total Water Supplied to Water Budget Area 17 (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	92	92	92	91	91	90
10%	89	89	88	87	87	87
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	81
80%	82	82	81	81	80	79
90%	81	81	79	80	79	78
100%	76	77	75	76	75	71
Mean	85	85	84	84	83	82

Table H1a3-373. Total Water Supplied to Water Budget Area 17 (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	84	84	83	84	81	80
D	85	85	84	84	83	81
BN	85	85	85	84	84	83
AN	84	85	83	83	82	82
W	85	85	84	84	83	84
All	85	85	84	84	83	82

H1a3.6.25 Water Budget Areas 18 and 19 (Agricultural)

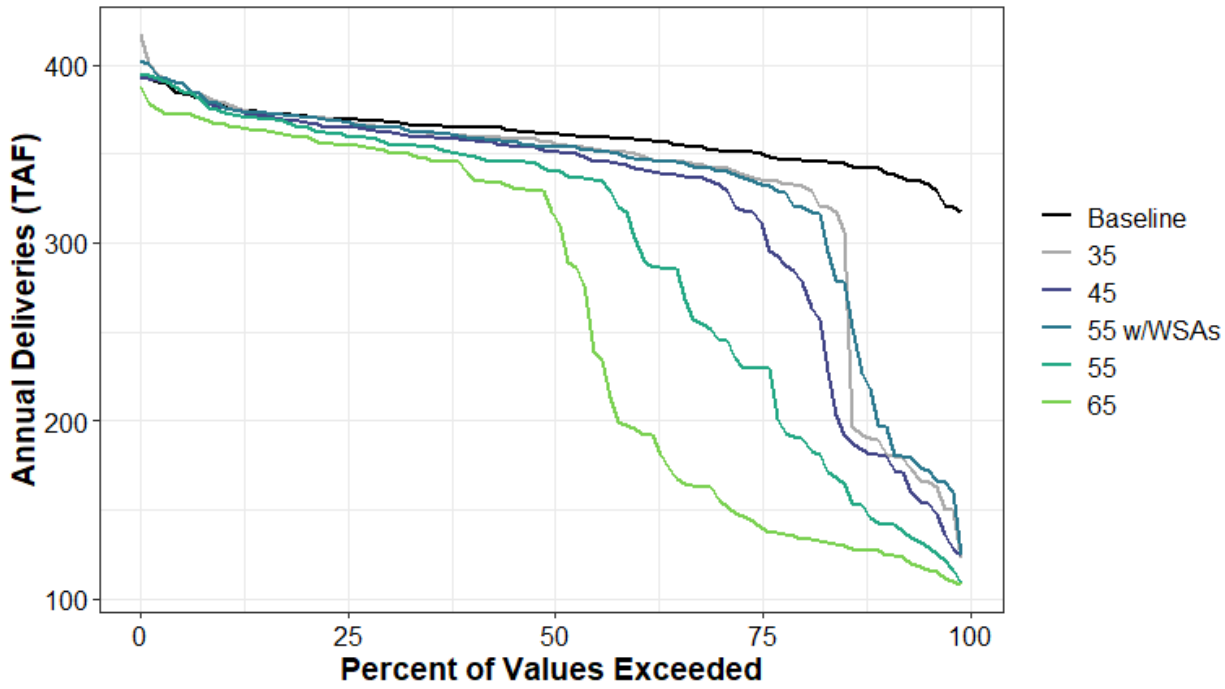

Figure H1a3-185. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-374. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	393	417	393	403	395	387
10%	377	378	376	377	373	366
20%	371	371	368	371	365	359
30%	368	365	362	365	356	351
40%	365	360	358	359	349	338
50%	361	356	351	354	341	318
60%	358	351	342	347	305	196
70%	352	342	333	341	247	158
80%	346	332	282	320	191	135
90%	341	188	181	198	142	127
100%	318	122	124	124	109	108
Mean	360	332	320	332	294	259

Table H1a3-375. Total Water Supplied to Water Budget Areas 18 and 19 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	364	195	178	206	155	147
D	367	362	327	353	245	147
BN	366	367	358	368	335	274
AN	356	358	358	357	356	349
W	350	350	350	350	352	354
All	360	332	320	332	294	259

H1a3.6.26 Water Budget Areas 20 and 25 (Agricultural)

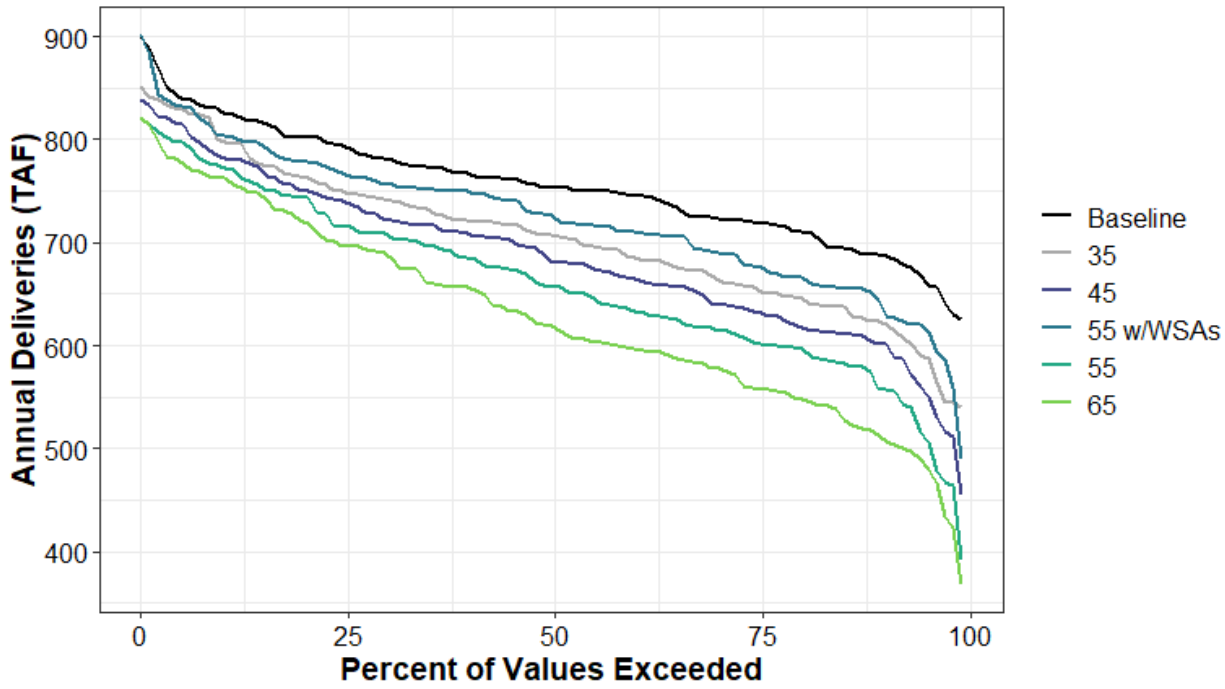

Figure H1a3-186. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-376. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	900	851	839	902	821	821
10%	826	799	782	803	773	763
20%	802	763	750	778	744	719
30%	781	742	722	757	707	687
40%	766	721	709	749	685	656
50%	754	707	681	726	657	619
60%	746	686	665	710	634	597
70%	723	665	641	690	616	578
80%	711	647	619	666	598	549
90%	688	623	601	641	557	512
100%	625	540	455	489	392	368
Mean	755	705	685	724	660	628

Table H1a3-377. Total Water Supplied to Water Budget Areas 20 and 25 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	794	717	700	760	677	653
D	777	708	680	740	640	601
BN	768	692	667	710	630	590
AN	738	703	680	715	657	602
W	718	705	695	704	685	669
All	755	705	685	724	660	628

H1a3.6.27 Water Budget Areas 20 and 25 (Urban)

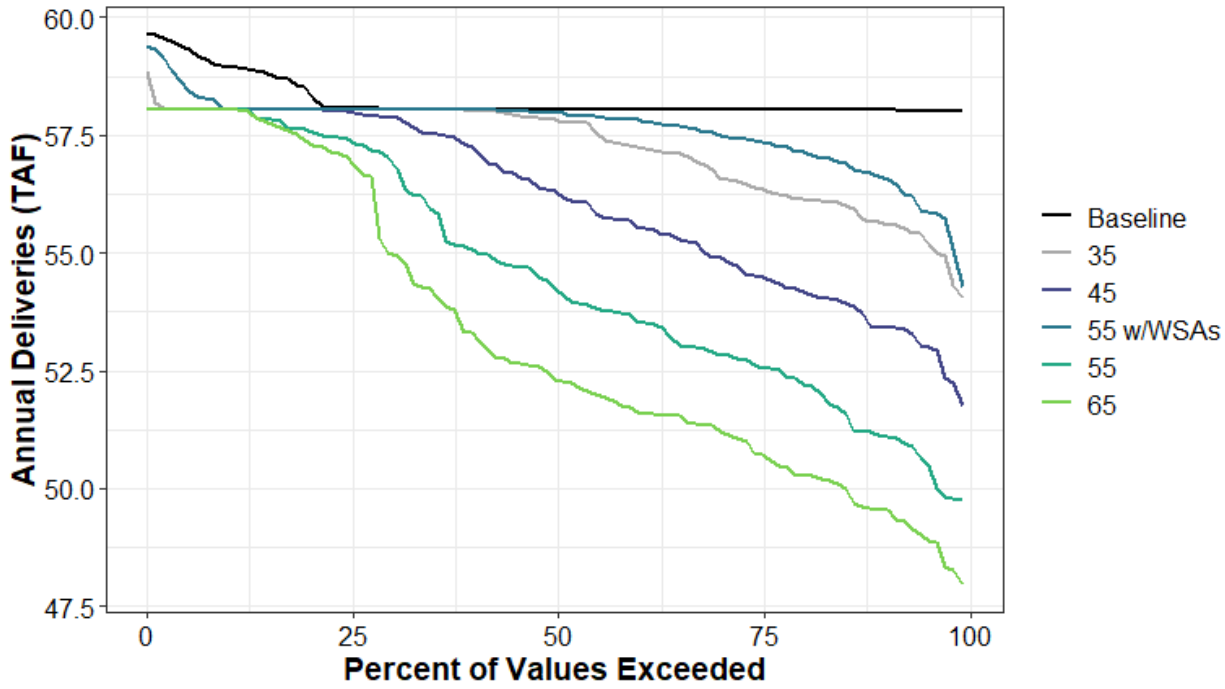

Figure H1a3-187. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Percent Exceedance Plot.

Table H1a3-378. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	52
70%	58	57	55	58	53	51
80%	58	56	54	57	52	50
90%	58	56	53	57	51	50
100%	58	54	52	54	50	48
Mean	58	57	56	58	55	53

Table H1a3-379. Total Water Supplied to Water Budget Areas 20 and 25 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	59	57	55	58	54	52
D	58	56	55	57	52	51
BN	58	57	56	57	53	52
AN	58	58	56	58	55	53
W	58	58	58	58	57	57
All	58	57	56	58	55	53

H1a3.6.28 Water Budget Area 21 (Agricultural)

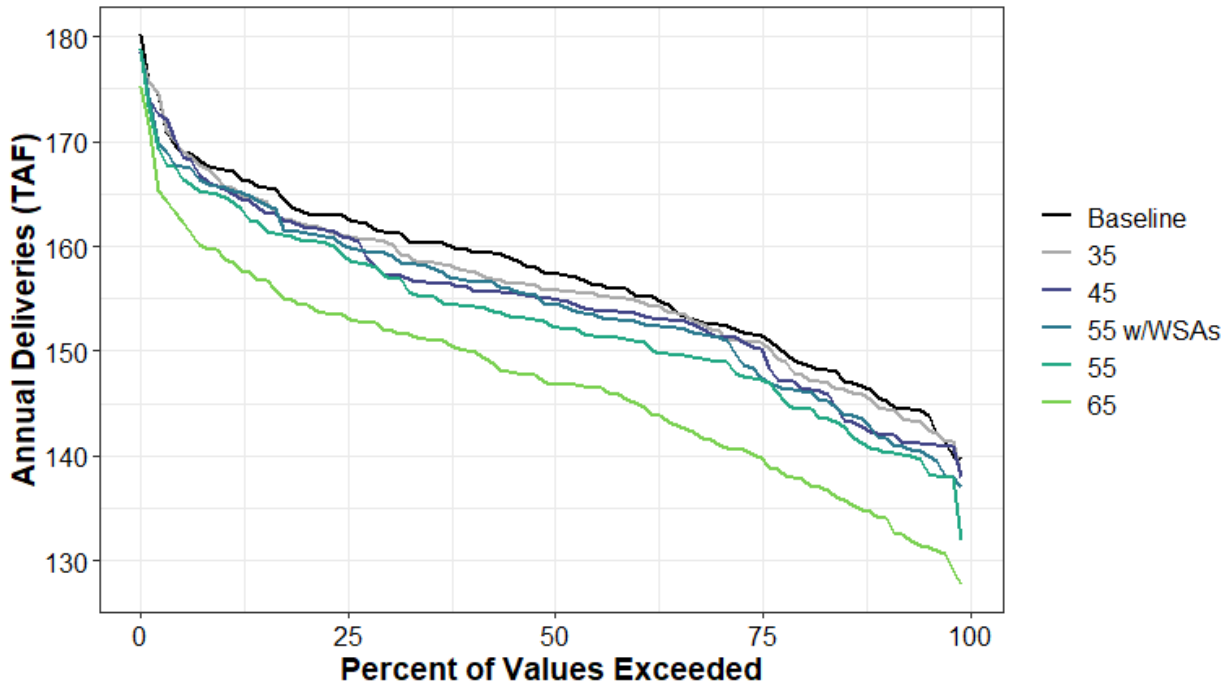

Figure H1a3-188. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-380. Total Water Supplied to Water Budget Area 21 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	180	178	179	179	179	175
10%	167	166	165	166	165	159
20%	163	162	162	161	161	154
30%	161	160	157	159	157	152
40%	160	158	156	157	154	150
50%	157	156	155	154	152	147
60%	156	155	154	153	151	145
70%	153	152	151	151	149	141
80%	149	148	147	146	145	138
90%	145	145	142	142	141	134
100%	140	138	138	137	132	128
Mean	157	156	155	154	153	147

Table H1a3-381. Total Water Supplied to Water Budget Area 21 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	164	162	161	162	160	154
D	160	159	157	157	153	151
BN	158	157	156	156	154	147
AN	155	155	153	154	153	145
W	151	150	150	148	148	140
All	157	156	155	154	153	147

H1a3.6.29 Water Budget Area 21 (Urban)

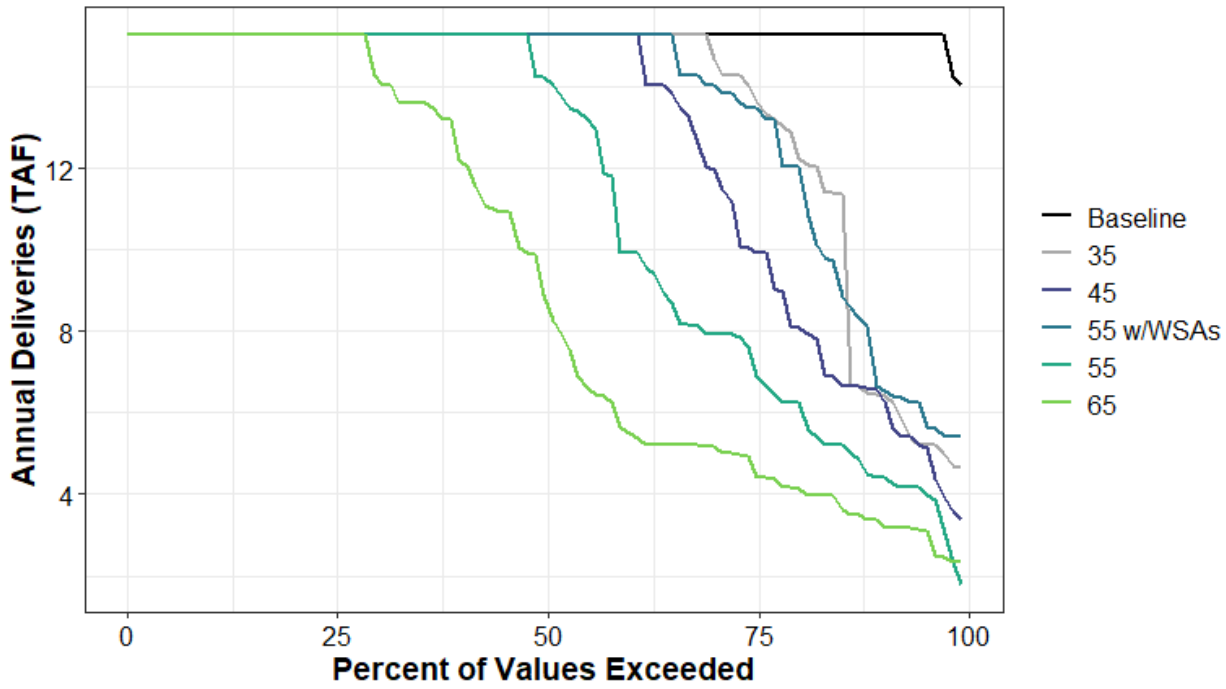

Figure H1a3-189. Total Water Supplied to Water Budget Area 21 (Urban) Annual Percent Exceedance Plot.

Table H1a3-382. Total Water Supplied to Water Budget Area 21 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	14.2
40%	15.3	15.3	15.3	15.3	15.3	12.2
50%	15.3	15.3	15.3	15.3	14.2	8.9
60%	15.3	15.3	15.3	15.3	9.9	5.5
70%	15.3	14.9	12	14.1	7.9	5.2
80%	15.3	12.6	8.1	12	6.2	4.2
90%	15.3	6.4	6.5	6.6	4.4	3.3
100%	14.1	4.6	3.4	5.4	1.8	2.3
Mean	15.3	13.6	12.7	13.5	11.4	9.4

Table H1a3-383. Total Water Supplied to Water Budget Area 21 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	15.3	6.9	6.1	7.3	4.5	3.5
D	15.3	13.9	11.7	13.4	8.4	5.1
BN	15.2	15.1	14.1	15	12.3	7.8
AN	15.2	15.1	15	15	14.8	13.6
W	15.3	15.3	15.3	15.3	15.2	14.9
All	15.3	13.6	12.7	13.5	11.4	9.4

H1a3.6.30 Water Budget Area 22 (Agricultural)

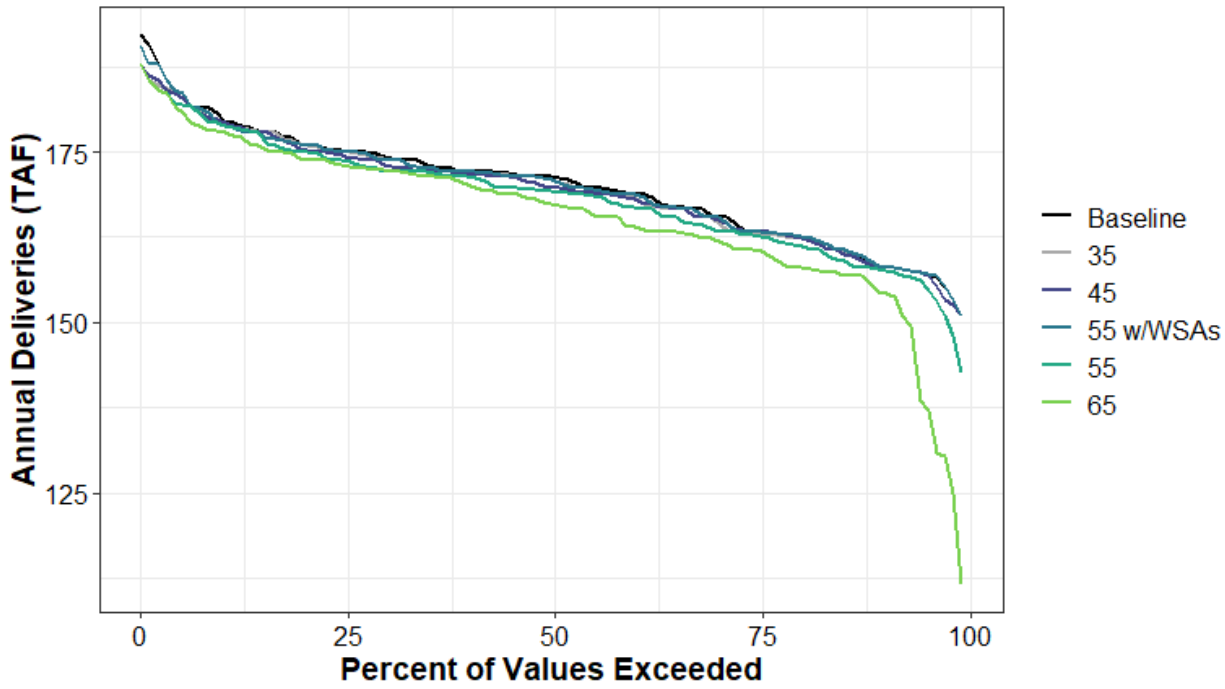

Figure H1a3-190. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-384. Total Water Supplied to Water Budget Area 22 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	192	188	188	191	188	188
10%	180	179	179	179	179	178
20%	176	176	175	176	175	174
30%	174	174	173	174	172	172
40%	172	172	172	172	171	170
50%	171	171	170	171	169	167
60%	169	168	168	169	167	164
70%	166	165	165	165	164	162
80%	162	162	162	163	161	158
90%	158	158	158	158	158	154
100%	151	151	151	151	142	112
Mean	170	170	169	170	168	166

Table H1a3-385. Total Water Supplied to Water Budget Area 22 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	178	175	173	176	167	154
D	173	173	173	173	173	171
BN	171	172	172	172	172	169
AN	167	167	167	167	167	167
W	164	164	164	164	164	164
All	170	170	169	170	168	166

H1a3.6.31 Water Budget Area 23 (Agricultural)

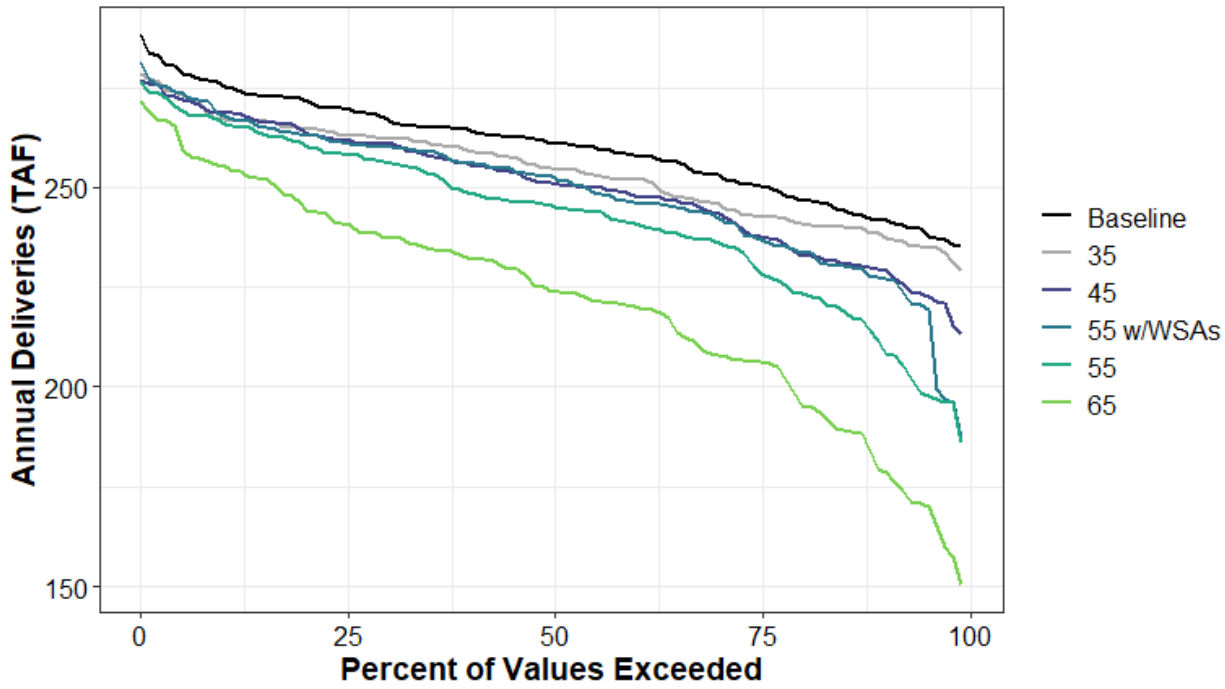

Figure H1a3-191. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-386. Total Water Supplied to Water Budget Area 23 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	229	227	211	179
100%	235	229	213	187	186	150
Mean	260	254	250	249	242	222

Table H1a3-387. Total Water Supplied to Water Budget Area 23 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.32 Water Budget Area 24 (Agricultural)

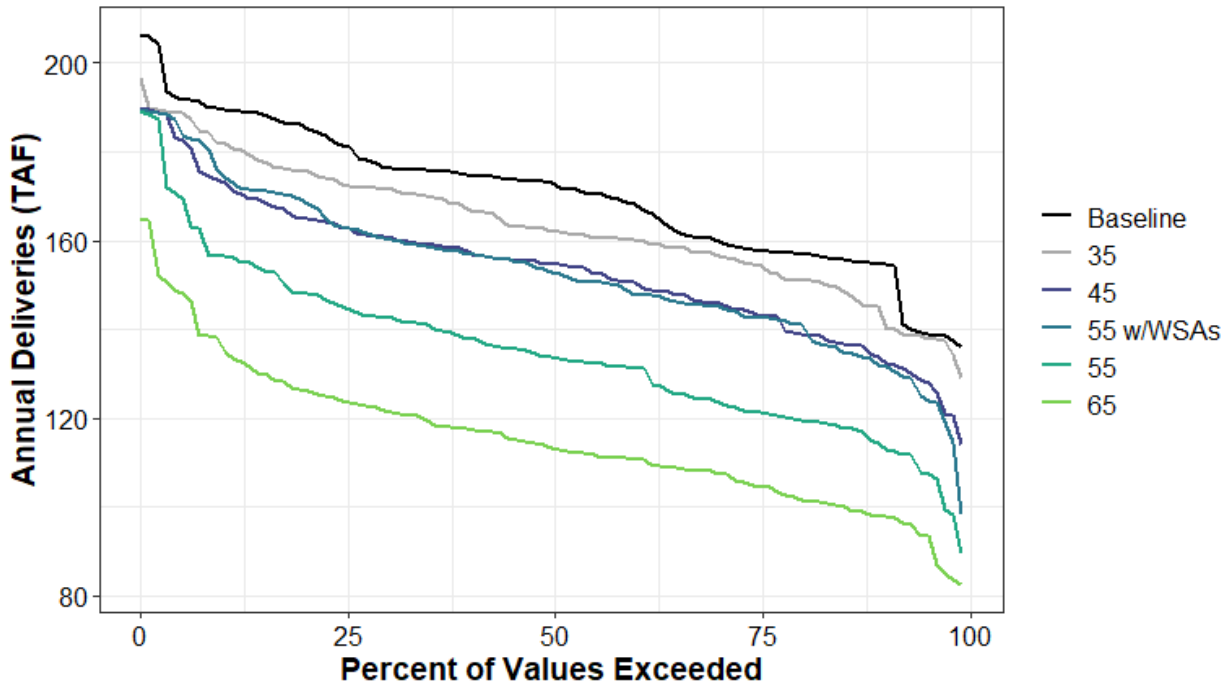

Figure H1a3-192. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-388. Total Water Supplied to Water Budget Area 24 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-389. Total Water Supplied to Water Budget Area 24 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.33 Water Budget Area 24 (Urban)

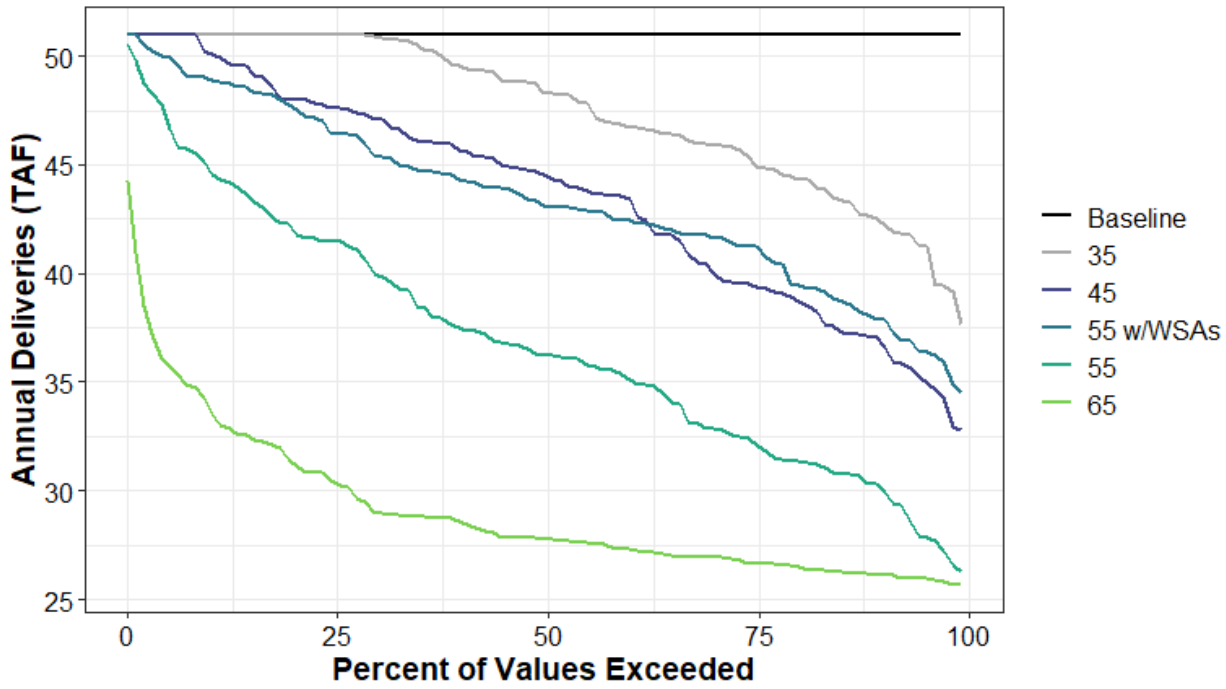

Figure H1a3-193. Total Water Supplied to Water Budget Area 24 (Urban) Annual Percent Exceedance Plot.

Table H1a3-390. Total Water Supplied to Water Budget Area 24 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-391. Total Water Supplied to Water Budget Area 24 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.34 Water Budget Area 26 (Agricultural)

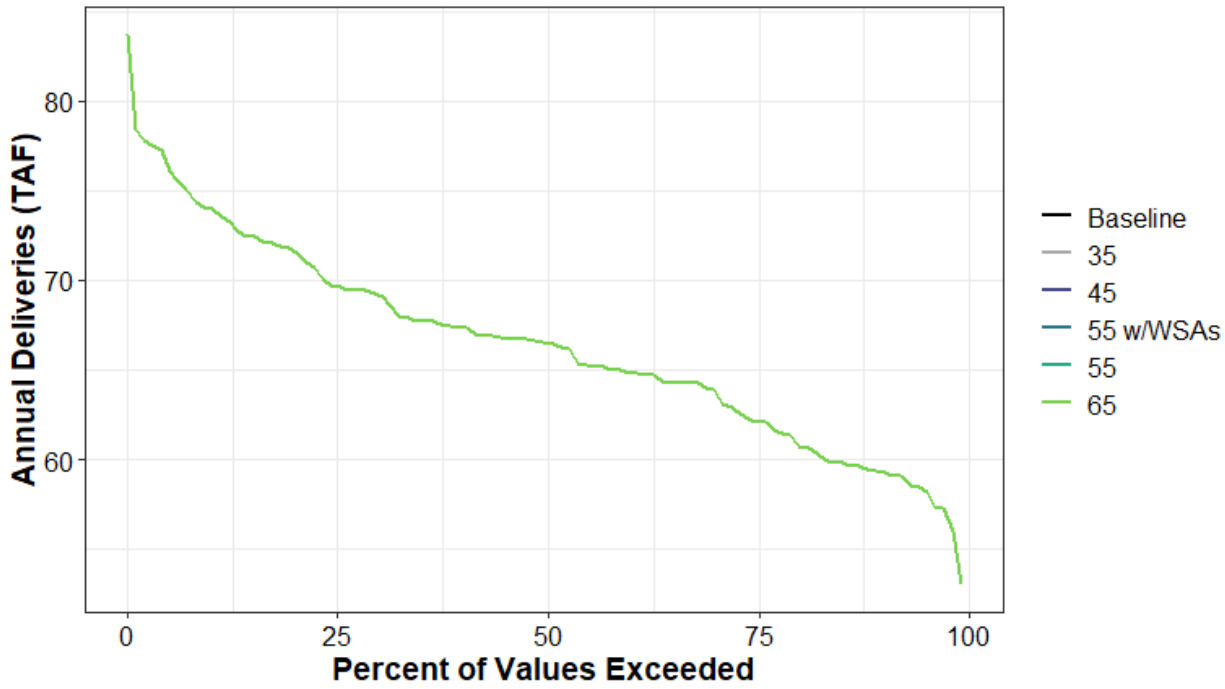

Figure H1a3-194. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-392. Total Water Supplied to Water Budget Area 26 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-393. Total Water Supplied to Water Budget Area 26 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.35 Water Budget Area 26 (Urban)

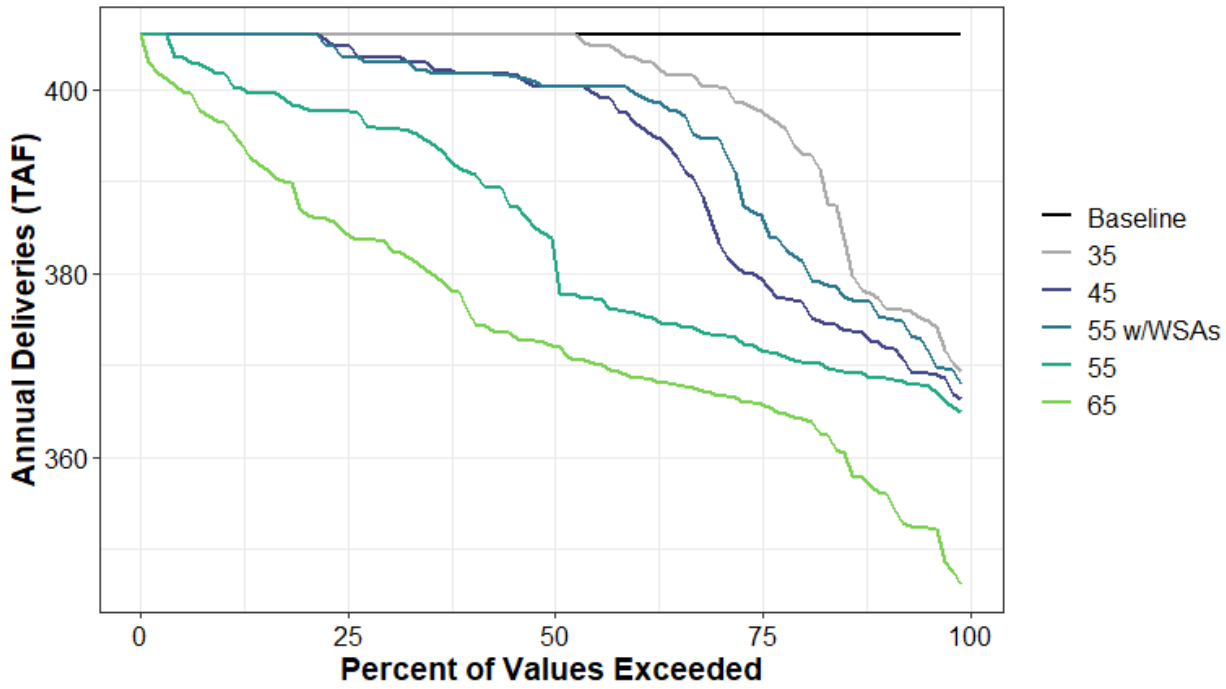

Figure H1a3-195. Total Water Supplied to Water Budget Area 26 (Urban) Annual Percent Exceedance Plot.

Table H1a3-394. Total Water Supplied to Water Budget Area 26 (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	396	383
40%	406	406	402	402	391	376
50%	406	406	400	400	384	372
60%	406	403	397	400	376	369
70%	406	400	384	395	373	367
80%	406	394	377	382	371	364
90%	406	377	372	375	369	356
100%	406	369	366	368	365	346
Mean	406	399	393	395	384	375

Table H1a3-395. Total Water Supplied to Water Budget Area 26 (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	406	378	373	375	371	359
D	406	399	385	390	372	366
BN	406	405	398	401	381	368
AN	406	405	404	402	393	379
W	406	405	404	404	400	392
All	406	399	393	395	384	375

H1a3.6.36 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.

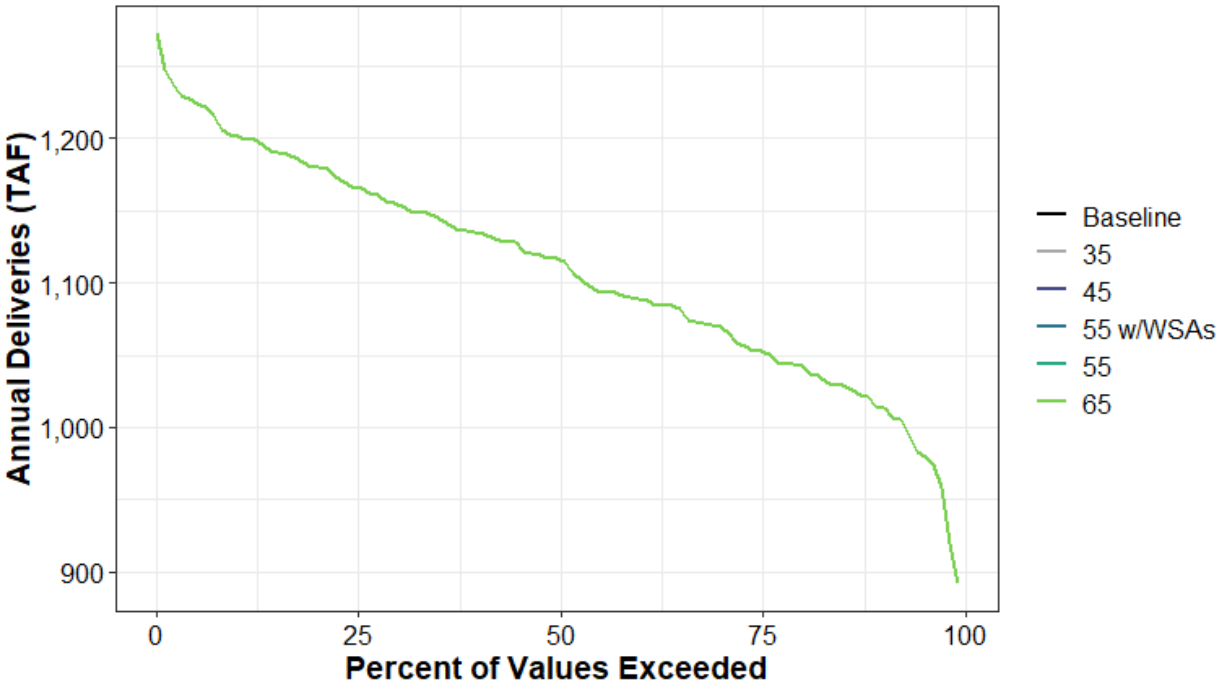

Figure H1a3-196. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Percent Exceedance Plot. Includes agricultural diversions to Delta islands as represented by the Delta Channel Depletions model.

Table H1a3-396. Surface Water Supplied to Water Budget Area 50 (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-397. Surface Water Supplied to Water Budget Area 50 (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.37 Delta (Urban)

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

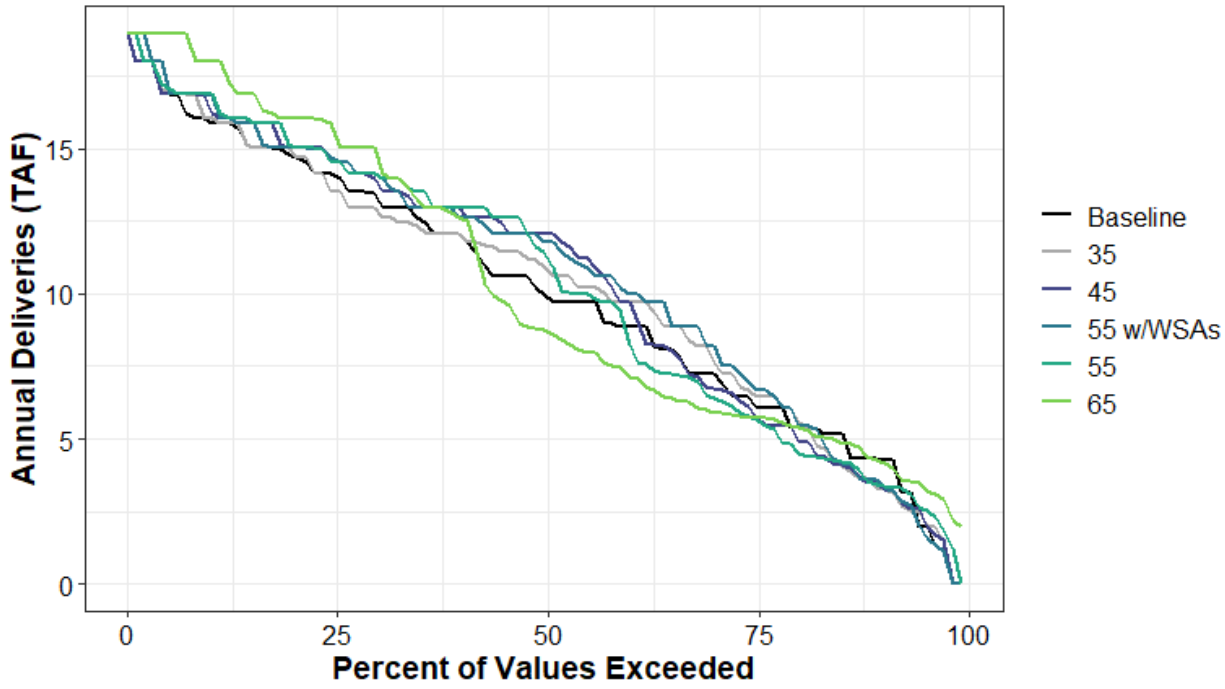

Figure H1a3-197. Surface Water Supplied to Delta (Urban) Annual Percent Exceedance Plot.

Table H1a3-398. Surface Water Supplied to Delta (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	19	19	19	19	19	19
10%	15.9	16.1	16.4	16.8	16.9	18
20%	14.8	14.9	15.1	15.1	15.1	16.1
30%	13.3	12.8	13.8	14.1	14.1	14.7
40%	12	12	12.9	12.6	13	12.6
50%	10	11	12.1	11.8	11.5	8.8
60%	8.9	9.7	9.7	10.1	8.5	7.2
70%	7.2	7.9	6.8	8.2	6.5	5.9
80%	5.4	5.9	5.2	5.8	4.7	5.4
90%	4.3	3.3	3.4	3.5	3.4	4.2
100%	0	0	0	0	0	2
Mean	10.1	10.3	10.5	10.7	10.4	10.3

Table H1a3-399. Surface Water Supplied to Delta (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	3.2	2.7	3.1	2.8	3.6	4.5
D	7	7.7	7.4	7.8	6.7	6.5
BN	9.7	10.5	10.5	11.1	9.9	7.5
AN	12.2	11.5	12.5	12.9	13	13.1
W	15.3	15.5	15.8	15.8	15.9	16.9
All	10.1	10.3	10.5	10.7	10.4	10.3

H1a3.6.38 Water Budget Area 60N (Agricultural)

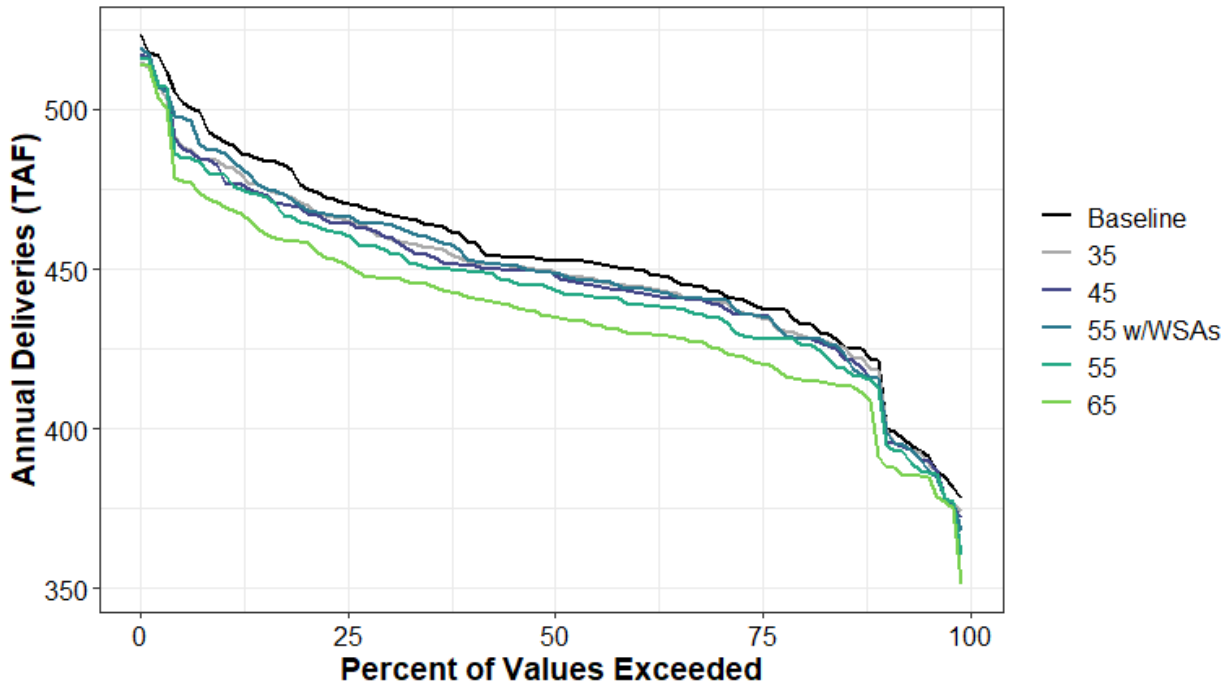

Figure H1a3-198. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-400. Total Water Supplied to Water Budget Area 60N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	523	515	517	519	516	514
10%	490	483	478	486	480	470
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	425
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 H1a3-401. Total Water Supplied to Water Budget Area 60N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.39 Water Budget Area 60N (Urban)

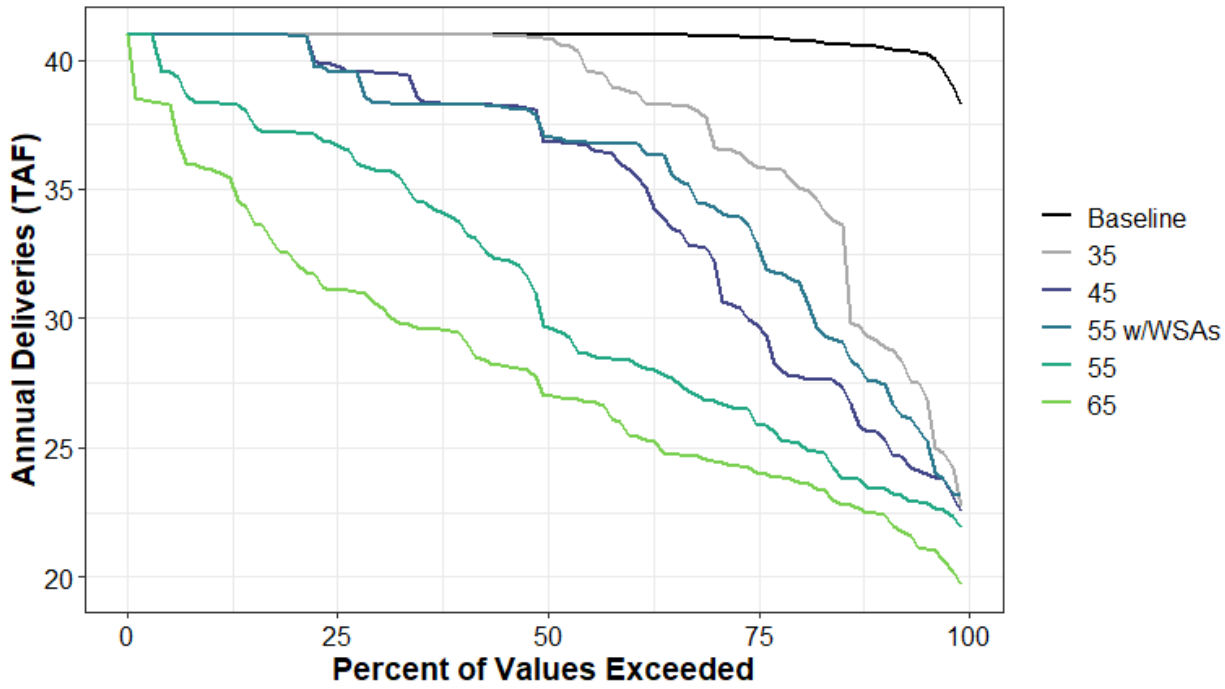

Figure H1a3-199. Total Water Supplied to Water Budget Area 60N (Urban) Annual Percent Exceedance Plot.

Table H1a3-402. Total Water Supplied to Water Budget Area 60N (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	41	41	41	41	41	41
10%	41	41	41	41	38	36
20%	41	41	41	41	37	32
30%	41	41	40	38	36	31
40%	41	41	38	38	34	29
50%	41	41	37	37	30	27
60%	41	39	36	37	28	26
70%	41	37	32	34	27	25
80%	41	35	28	31	25	24
90%	41	29	26	28	23	22
100%	38	23	23	23	22	20
Mean	41	38	35	36	31	28

Table H1a3-403. Total Water Supplied to Water Budget Area 60N (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	41	29	26	28	24	23
D	41	38	32	33	26	25
BN	41	40	37	38	30	27
AN	41	40	39	38	34	28
W	41	41	40	39	38	34
All	41	38	35	36	31	28

H1a3.6.40 Water Budget Area 60S (Agricultural)

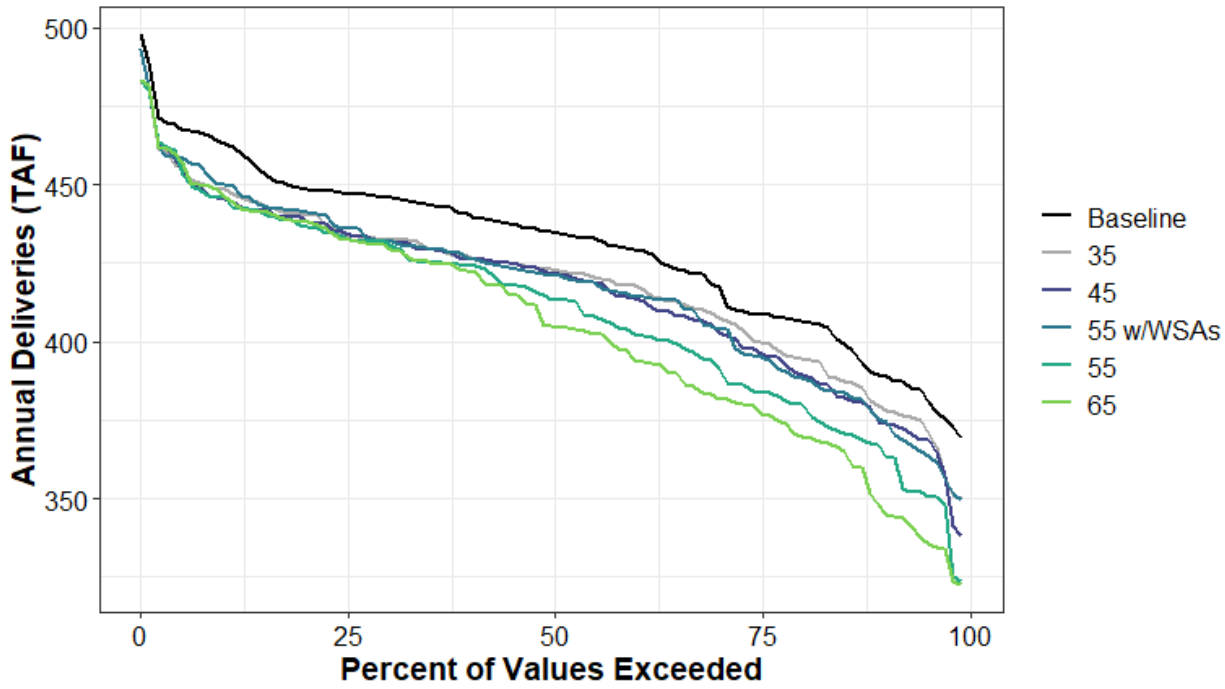

Figure H1a3-200. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-404. Total Water Supplied to Water Budget Area 60S (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	498	483	483	493	483	483
10%	463	448	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 H1a3-405. Total Water Supplied to Water Budget Area 60S (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.41 Water Budget Area 60S (Urban)

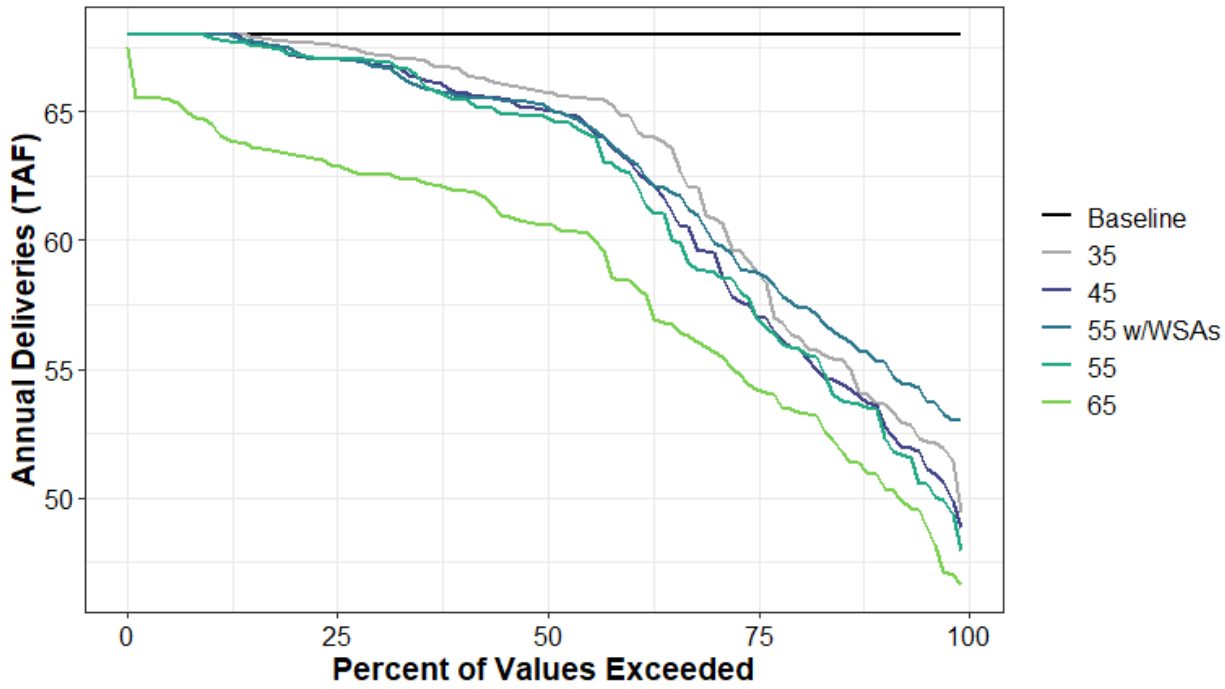

Figure H1a3-201. Total Water Supplied to Water Budget Area 60S (Urban) Annual Percent Exceedance Plot.

Table H1a3-406. Total Water Supplied to Water Budget Area 60S (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-407. Total Water Supplied to Water Budget Area 60S (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.42 Water Budget Area 61N (Agricultural)

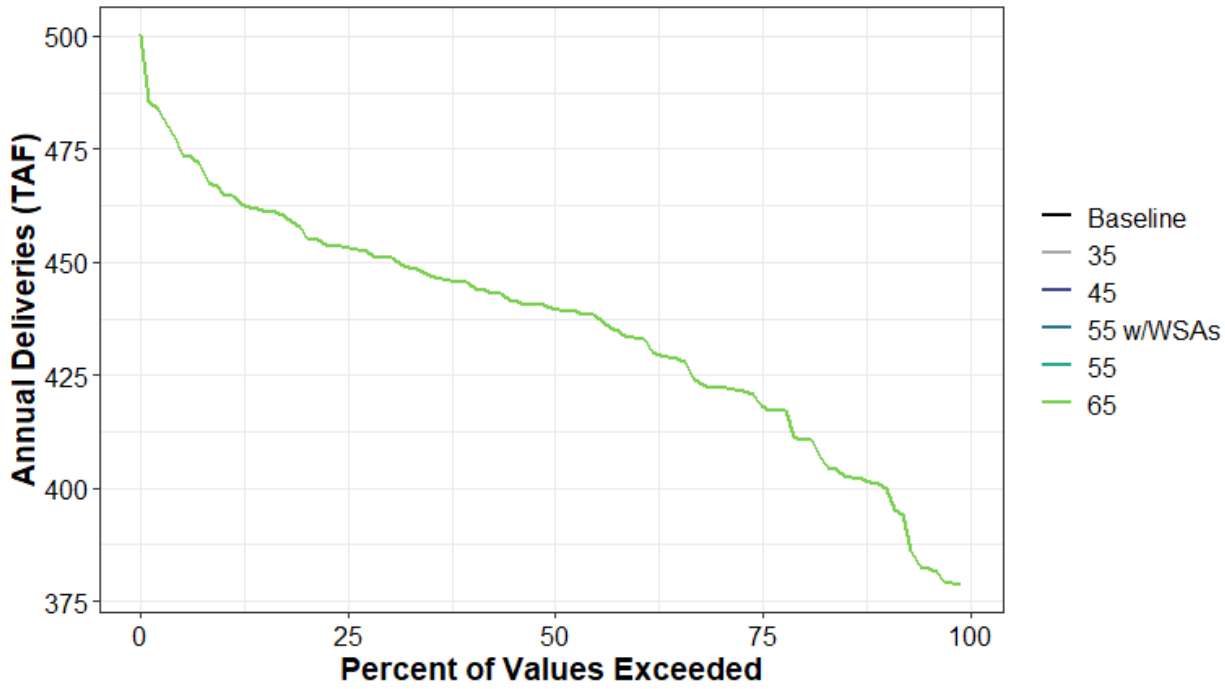

Figure H1a3-202. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-408. Total Water Supplied to Water Budget Area 61N (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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 H1a3-409. Total Water Supplied to Water Budget Area 61N (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.43 Upper Watershed and Foothill (Agricultural)

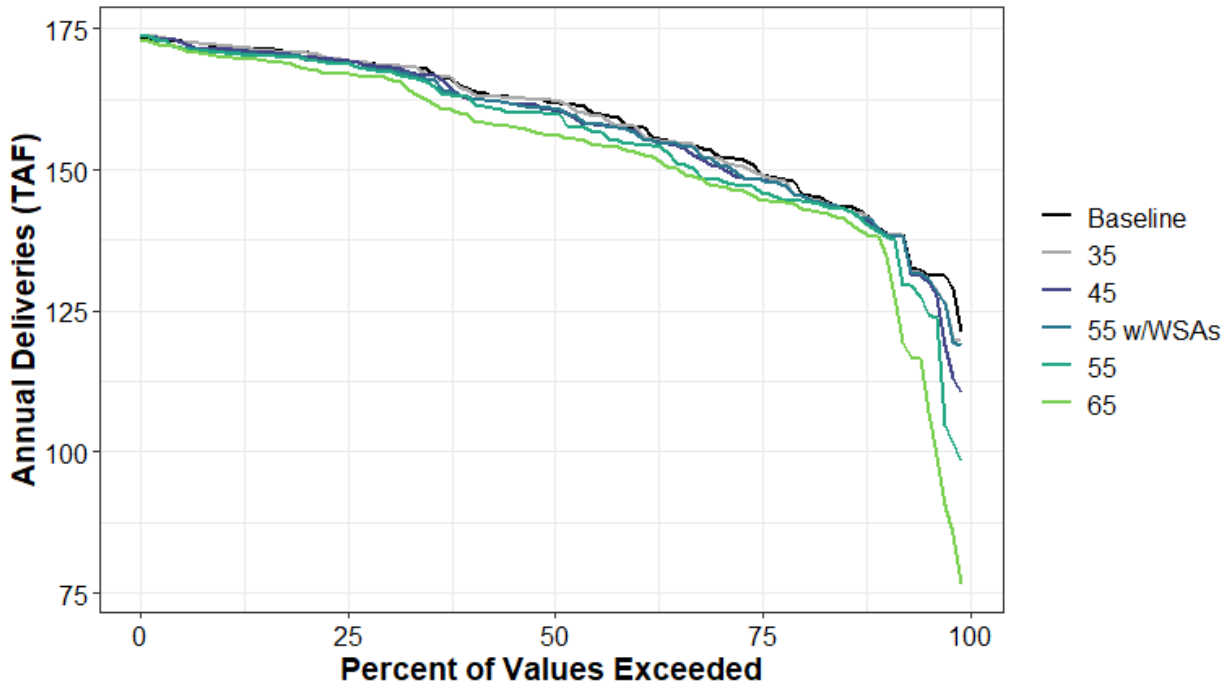

Figure H1a3-203. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-410. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	174	174	174	174	174	173
10%	172	172	171	171	171	170
20%	171	171	170	170	170	168
30%	169	168	168	168	167	166
40%	164	164	163	163	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 H1a3-411. Surface Water Supplied to Upper Watershed and Foothill (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.44 Upper Watershed and Foothill (Urban)

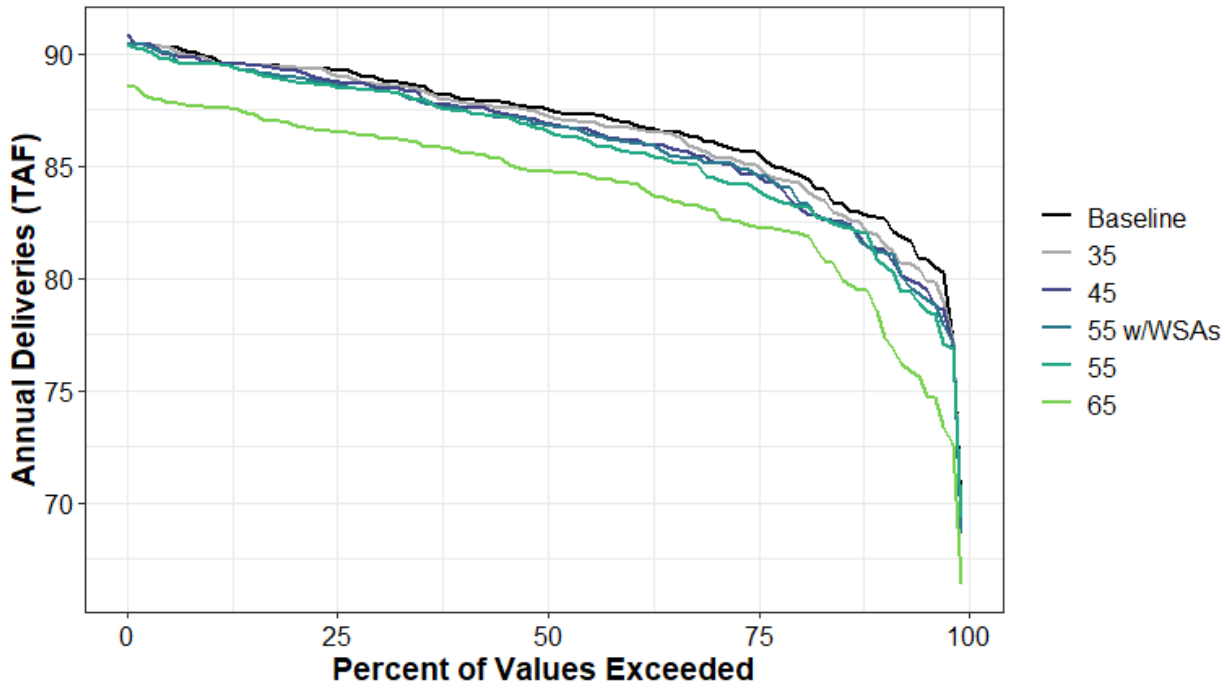

Figure H1a3-204. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Percent Exceedance Plot.

Table H1a3-412. Surface Water Supplied to Upper Watershed and Foothill (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	82	81	81	81	78
100%	70	69	69	69	69	66
Mean	87	86	86	86	86	84

Table H1a3-413. Surface Water Supplied to Upper Watershed and Foothill (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.45 San Francisco Bay Area (Agricultural)

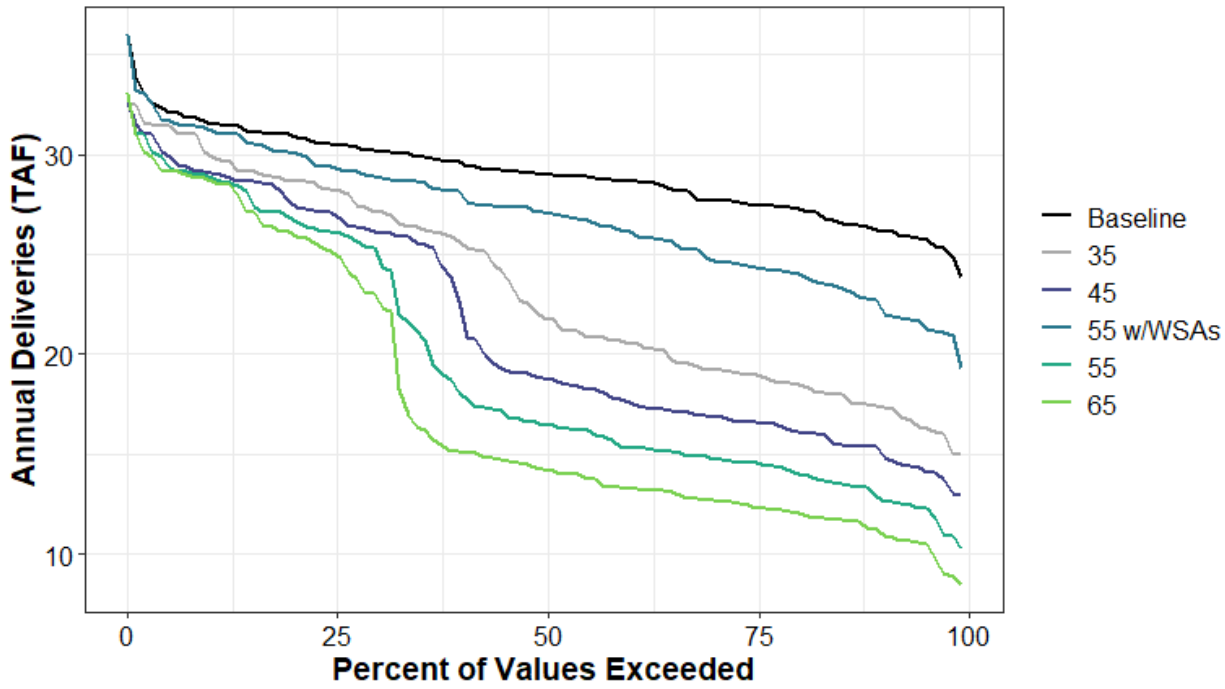

Figure H1a3-205. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-414. Total Water Supplied to San Francisco Bay Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	36	33	33	36	33	33
10%	32	30	29	31	29	29
20%	31	29	28	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 H1a3-415. Total Water Supplied to San Francisco Bay Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.6.46 San Francisco Bay Area (Urban)

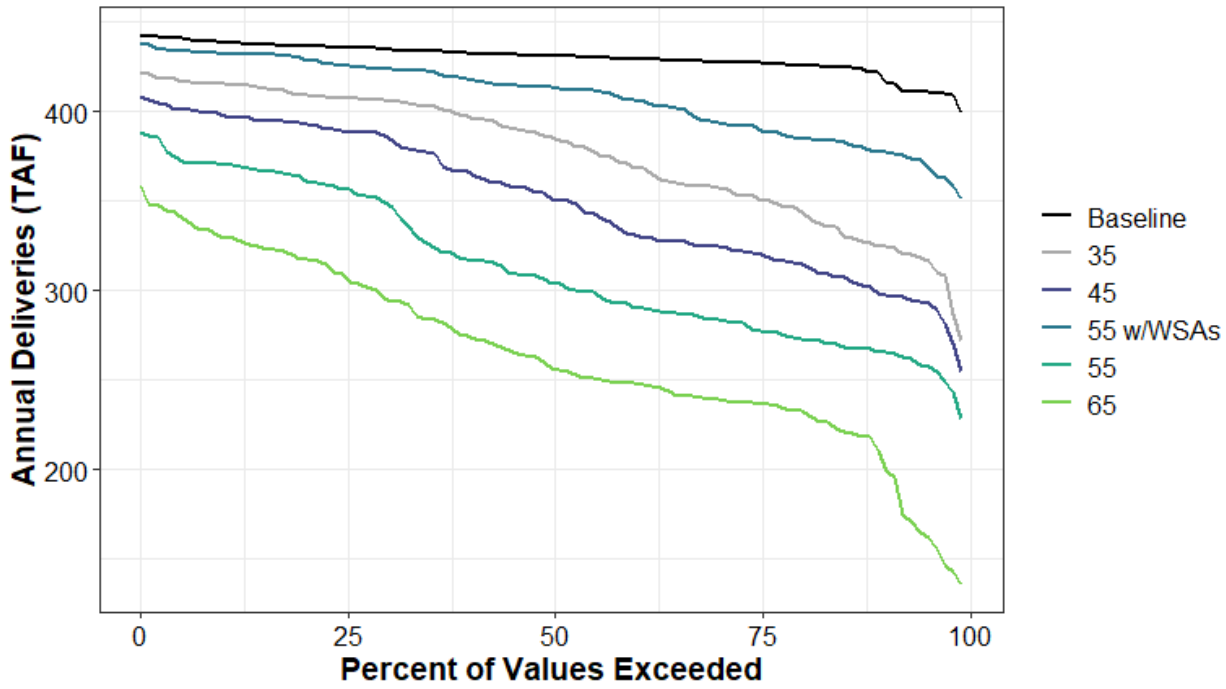

Figure H1a3-206. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Percent Exceedance Plot.

Table H1a3-416. Surface Water Supplied to San Francisco Bay Area (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	443	422	409	438	388	359
10%	439	415	398	432	370	330
20%	436	410	393	429	362	317
30%	435	406	385	424	348	295
40%	433	397	366	418	317	274
50%	431	386	351	413	304	256
60%	429	369	331	406	291	248
70%	428	358	325	394	284	239
80%	426	345	315	386	274	233
90%	421	325	298	377	266	208
100%	400	271	254	351	228	135
Mean	430	377	350	408	313	264

Table H1a3-417. Surface Water Supplied to San Francisco Bay Area (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	420	321	298	390	272	217
D	432	358	324	392	282	240
BN	432	378	345	406	296	242
AN	432	399	370	420	326	270
W	432	410	393	426	362	320
All	430	377	350	408	313	264

H1a3.6.47 Total CVP Deliveries

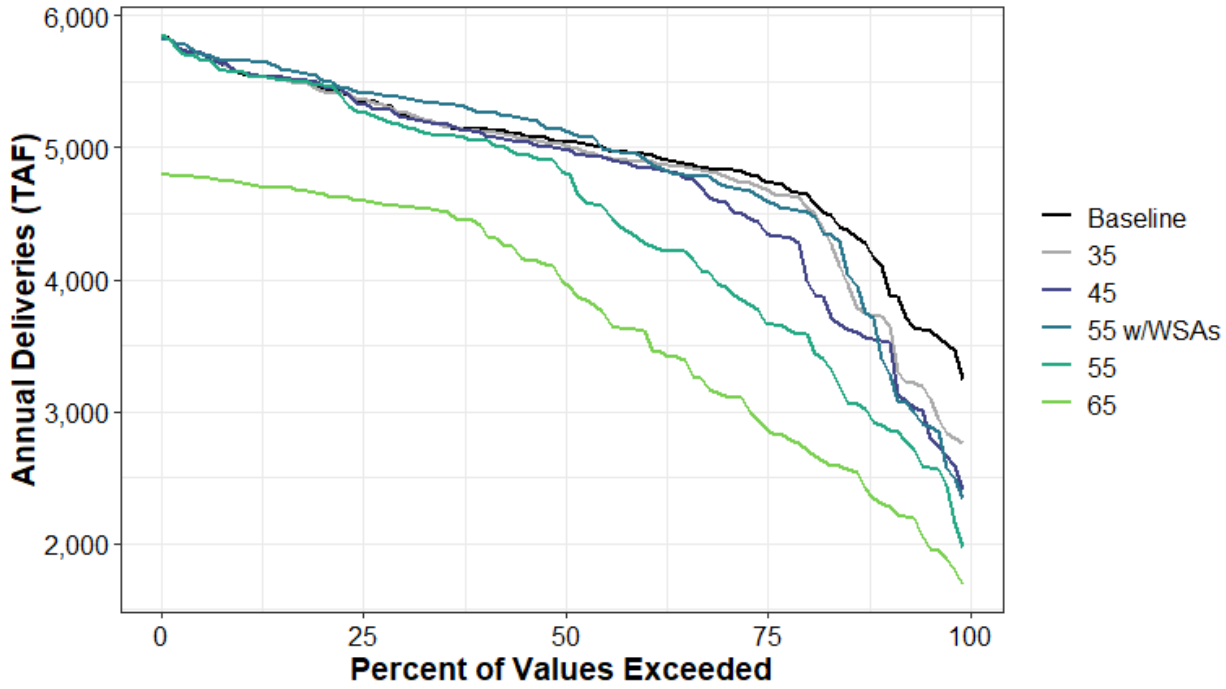

Figure H1a3-207. Surface Water Supplied to Total CVP Deliveries Annual Percent Exceedance Plot.

Table H1a3-418. Surface Water Supplied to Total CVP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	5,839	5,859	5,849	5,822	5,850	4,800
10%	5,569	5,573	5,579	5,661	5,569	4,736
20%	5,448	5,435	5,478	5,519	5,477	4,654
30%	5,237	5,264	5,239	5,382	5,172	4,557
40%	5,140	5,125	5,108	5,267	5,055	4,394
50%	5,044	5,029	4,988	5,143	4,819	3,989
60%	4,956	4,891	4,848	4,923	4,287	3,613
70%	4,830	4,793	4,590	4,718	3,958	3,130
80%	4,657	4,596	4,165	4,520	3,587	2,742
90%	4,056	3,703	3,537	3,382	2,893	2,302
100%	3,247	2,761	2,398	2,346	1,969	1,688
Mean	4,950	4,850	4,748	4,868	4,473	3,735

Table H1a3-419. Surface Water Supplied to Total CVP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	4,035	3,470	3,247	3,280	2,827	2,339
D	4,821	4,767	4,553	4,717	3,994	3,169
BN	4,958	4,971	4,901	5,065	4,530	3,723
AN	5,062	5,090	5,056	5,251	4,975	4,346
W	5,482	5,474	5,470	5,549	5,464	4,656
All	4,950	4,850	4,748	4,868	4,473	3,735

H1a3.6.48 Total CVP North of Delta

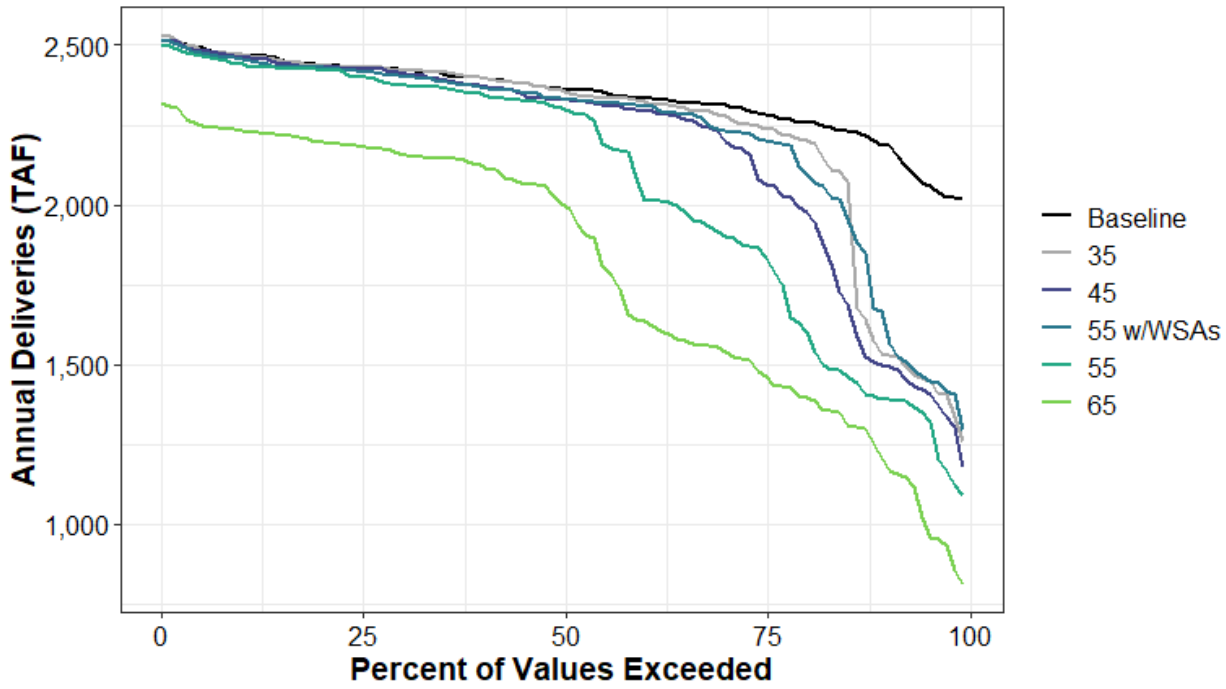

Figure H1a3-208. Surface Water Supplied to Total CVP North of Delta Annual Percent Exceedance Plot.

Table H1a3-420. Surface Water Supplied to Total CVP North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	2,534	2,532	2,520	2,514	2,498	2,319
10%	2,473	2,470	2,463	2,457	2,441	2,233
20%	2,438	2,436	2,431	2,429	2,423	2,195
30%	2,423	2,420	2,413	2,405	2,373	2,158
40%	2,398	2,399	2,373	2,370	2,346	2,124
50%	2,363	2,358	2,331	2,334	2,304	2,004
60%	2,333	2,327	2,294	2,311	2,029	1,639
70%	2,313	2,281	2,210	2,236	1,905	1,546
80%	2,260	2,205	1,986	2,111	1,620	1,400
90%	2,187	1,532	1,498	1,646	1,391	1,198
100%	2,019	1,260	1,179	1,295	1,091	811
Mean	2,344	2,240	2,187	2,226	2,072	1,809

Table H1a3-421. Surface Water Supplied to Total CVP North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	2,176	1,582	1,501	1,619	1,346	1,173
D	2,343	2,297	2,163	2,231	1,888	1,524
BN	2,390	2,398	2,347	2,378	2,207	1,858
AN	2,391	2,402	2,396	2,393	2,383	2,151
W	2,385	2,385	2,385	2,381	2,384	2,189
All	2,344	2,240	2,187	2,226	2,072	1,809

H1a3.6.49 CVP North of Delta Water Service (Agricultural)

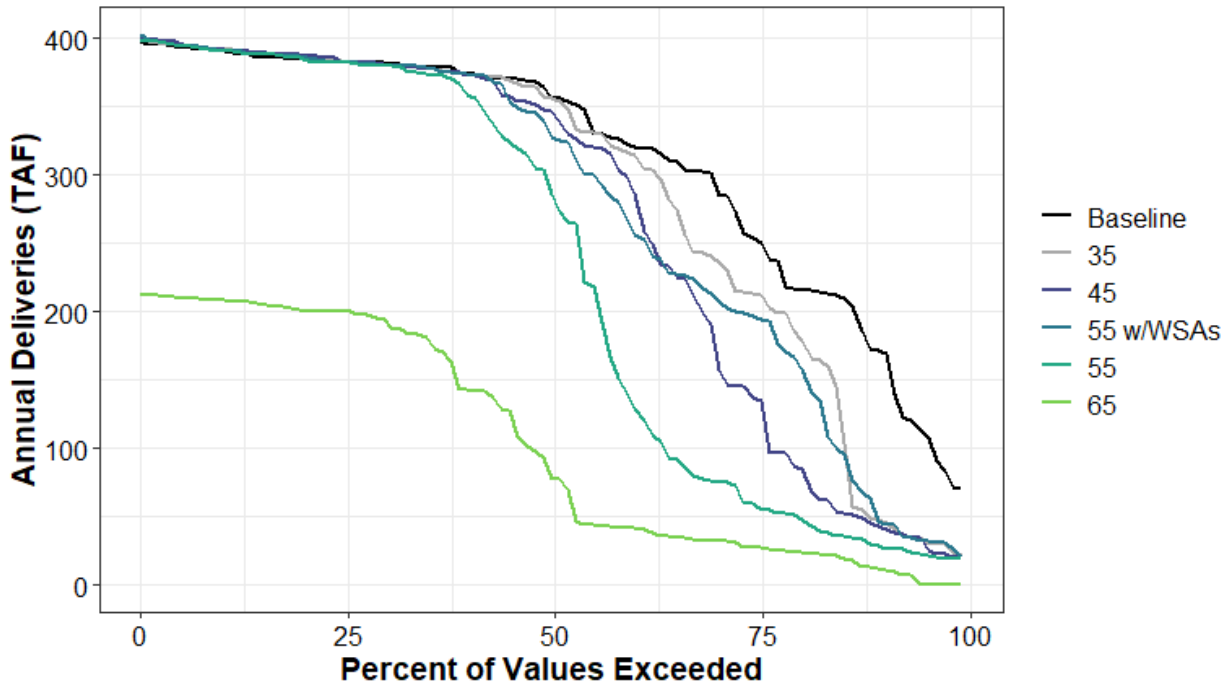

Figure H1a3-209. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-422. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	397	398	402	403	399	213
10%	390	392	392	391	390	208
20%	384	387	387	387	384	201
30%	382	381	381	380	380	191
40%	374	374	373	374	358	143
50%	356	356	347	327	286	78
60%	320	315	288	258	131	41
70%	292	238	170	210	75	32
80%	216	183	86	163	50	24
90%	171	47	43	46	28	12
100%	71	21	20	20	19	0
Mean	312	287	266	275	229	104

Table H1a3-423. Surface Water Supplied to CVP North of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	167	64	47	55	32	13
D	275	234	174	202	92	32
BN	327	329	302	311	218	71
AN	373	374	374	373	368	171
W	382	384	385	384	385	200
All	312	287	266	275	229	104

H1a3.6.50 CVP North of Delta Water Service (M&I)

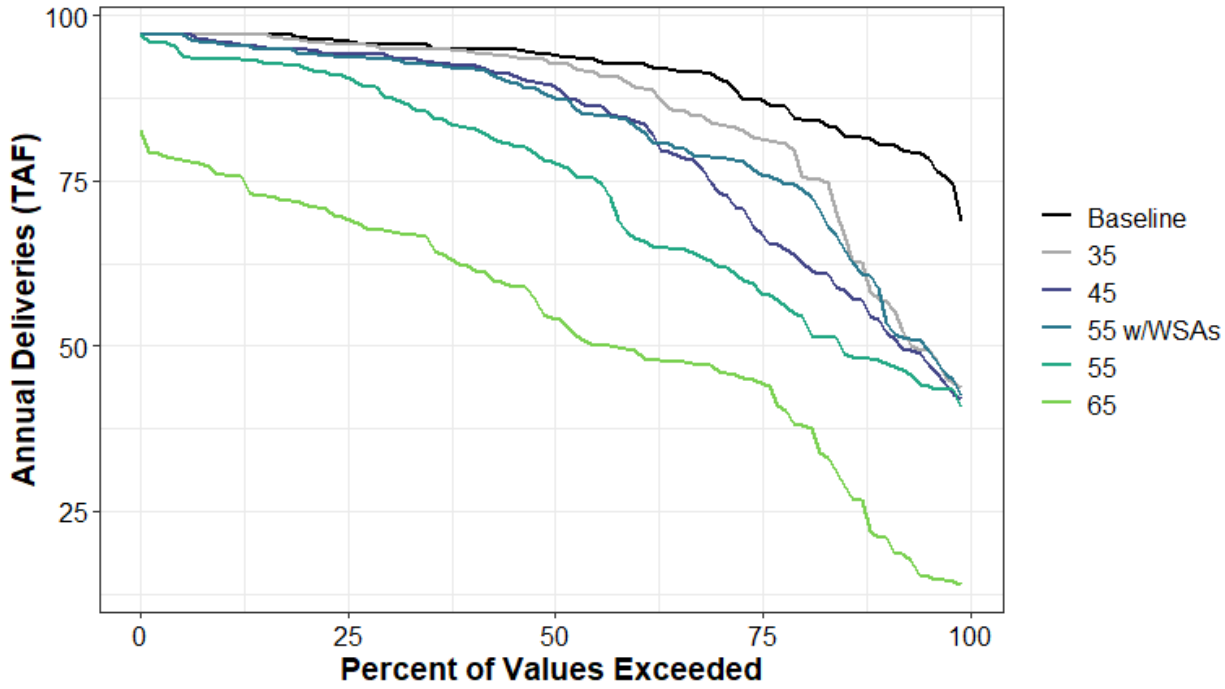

Figure H1a3-210. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a3-424. Surface Water Supplied to CVP North of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	97	97	97	97	97	83
10%	97	97	96	96	93	76
20%	97	96	95	94	92	71
30%	96	95	94	93	88	67
40%	95	95	92	92	83	62
50%	94	93	90	88	78	54
60%	93	89	84	84	66	49
70%	91	84	74	78	62	46
80%	84	78	63	74	55	38
90%	81	57	54	58	48	21
100%	69	44	42	42	41	14
Mean	91	85	81	82	74	53

Table H1a3-425. Surface Water Supplied to CVP North of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	83	57	54	55	50	26
D	91	85	74	79	61	44
BN	91	90	85	87	72	50
AN	93	93	92	90	86	64
W	95	95	94	93	91	73
All	91	85	81	82	74	53

H1a3.6.51 CVP Settlement (Agricultural)

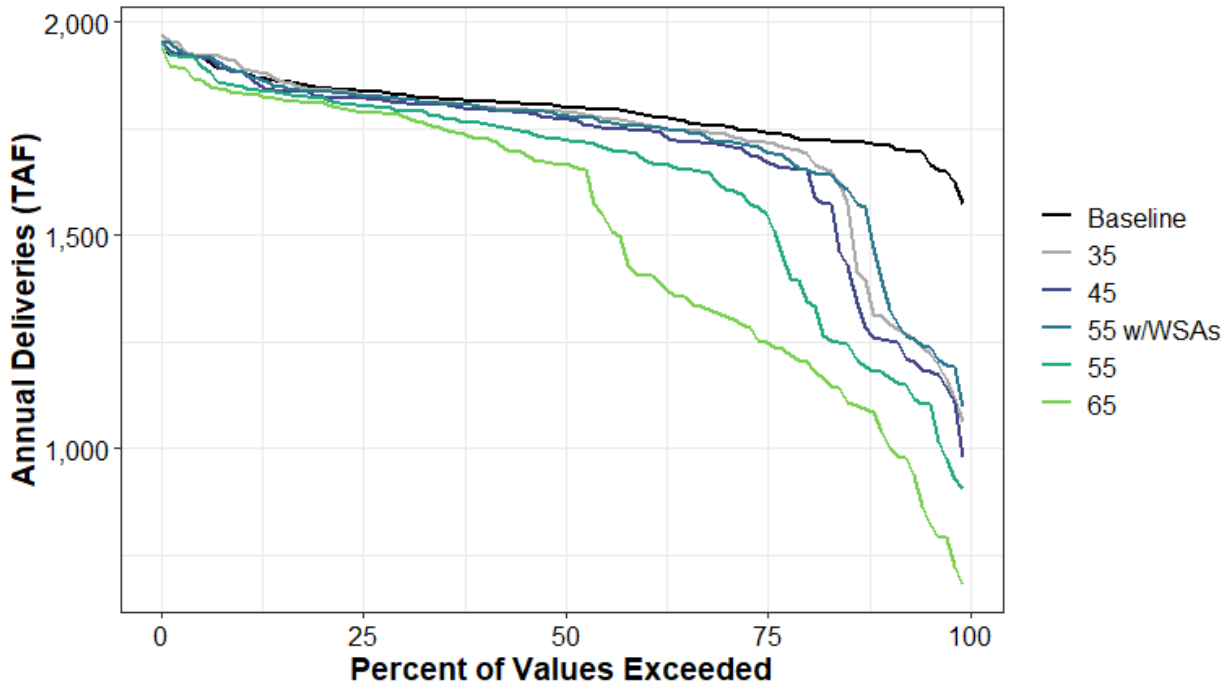

Figure H1a3-211. Surface Water Supplied to CVP Settlement (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-426. Surface Water Supplied to CVP Settlement (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	1,950	1,972	1,951	1,955	1,950	1,941
10%	1,883	1,895	1,882	1,883	1,849	1,832
20%	1,847	1,842	1,825	1,837	1,821	1,810
30%	1,828	1,819	1,812	1,820	1,793	1,780
40%	1,814	1,803	1,794	1,803	1,763	1,726
50%	1,802	1,790	1,772	1,781	1,725	1,666
60%	1,785	1,761	1,745	1,756	1,679	1,406
70%	1,756	1,738	1,712	1,719	1,614	1,314
80%	1,726	1,697	1,654	1,656	1,375	1,207
90%	1,711	1,308	1,257	1,383	1,177	1,034
100%	1,576	1,063	980	1,098	906	681
Mean	1,794	1,721	1,694	1,722	1,624	1,508

Table H1a3-427. Surface Water Supplied to CVP Settlement (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,784	1,319	1,259	1,368	1,124	997
D	1,830	1,830	1,769	1,804	1,589	1,304
BN	1,824	1,831	1,812	1,832	1,769	1,591
AN	1,778	1,788	1,785	1,785	1,786	1,774
W	1,759	1,759	1,759	1,756	1,761	1,769
All	1,794	1,721	1,694	1,722	1,624	1,508

H1a3.6.52 CVP Settlement (M&I)

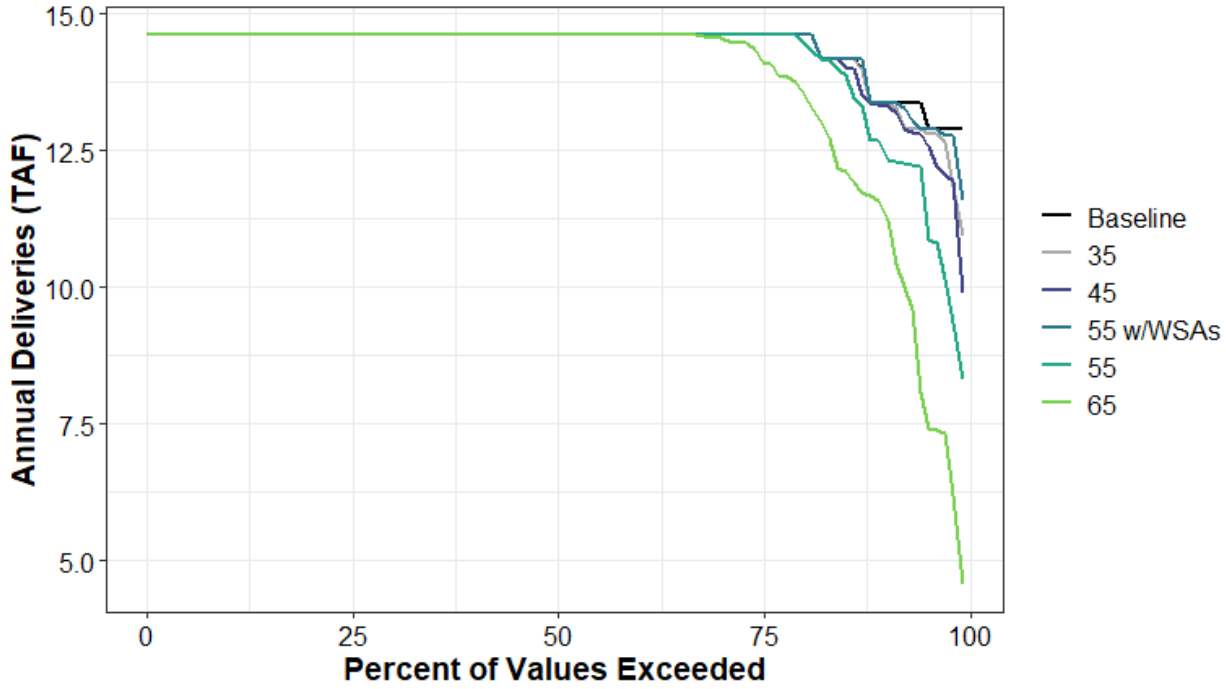

Figure H1a3-212. Surface Water Supplied to CVP Settlement (M&I) Annual Percent Exceedance Plot.

Table H1a3-428. Surface Water Supplied to CVP Settlement (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	13.7
90%	13.4	13.4	13.3	13.4	12.6	11.5
100%	12.9	10.9	9.9	11.6	8.3	4.6
Mean	14.4	14.4	14.3	14.4	14.2	13.7

Table H1a3-429. Surface Water Supplied to CVP Settlement (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
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	14.4
W	14.6	14.6	14.6	14.6	14.6	14.6
All	14.4	14.4	14.3	14.4	14.2	13.7

H1a3.6.53 CVP North of Delta (Refuge)

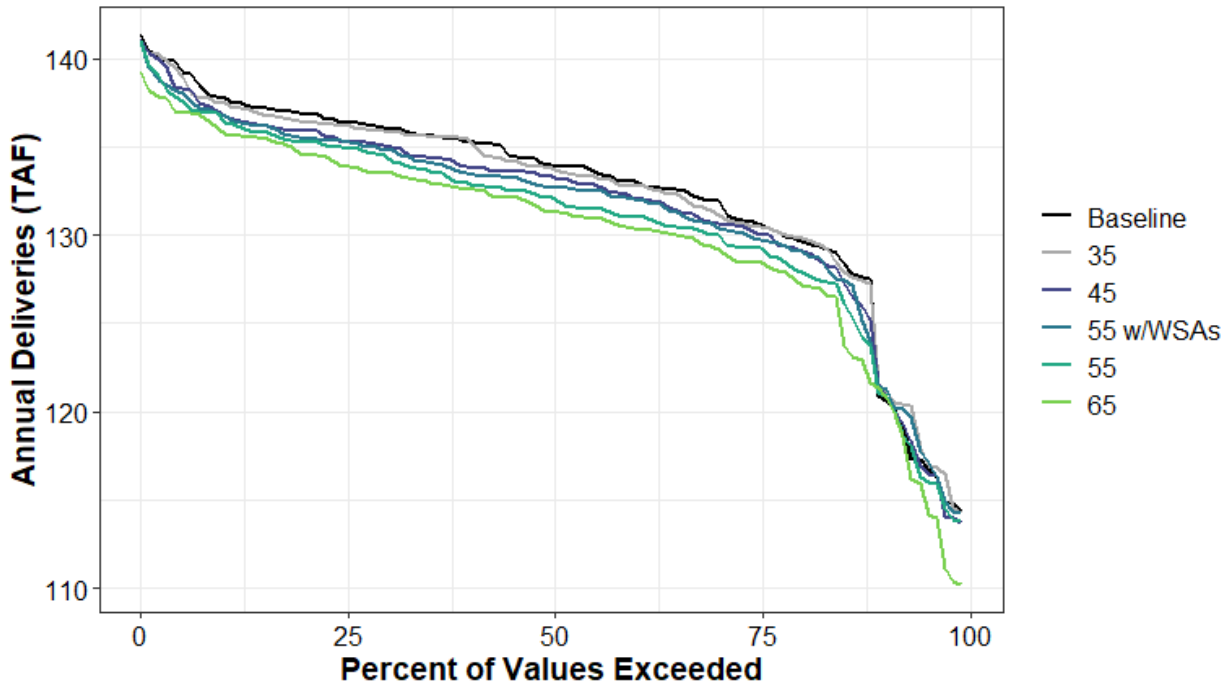

Figure H1a3-213. Surface Water Supplied to CVP North of Delta (Refuge) Annual Percent Exceedance Plot.

Table H1a3-430. Surface Water Supplied to CVP North of Delta (Refuge) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	141	141	141	141	141	139
10%	138	137	137	137	136	136
20%	137	136	136	135	135	135
30%	136	136	135	135	134	133
40%	135	135	134	133	133	133
50%	134	134	133	133	132	131
60%	133	133	132	132	131	130
70%	132	131	131	130	130	129
80%	130	130	129	129	128	127
90%	121	121	121	121	121	121
100%	114	114	114	114	114	110
Mean	133	132	132	131	131	130

Table H1a3-431. Surface Water Supplied to CVP North of Delta (Refuge) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	128	128	127	128	127	126
D	133	133	132	132	132	131
BN	133	133	133	133	133	132
AN	132	132	131	130	129	128
W	134	134	133	133	132	132
All	133	132	132	131	131	130

H1a3.6.54 Total CVP South of Delta

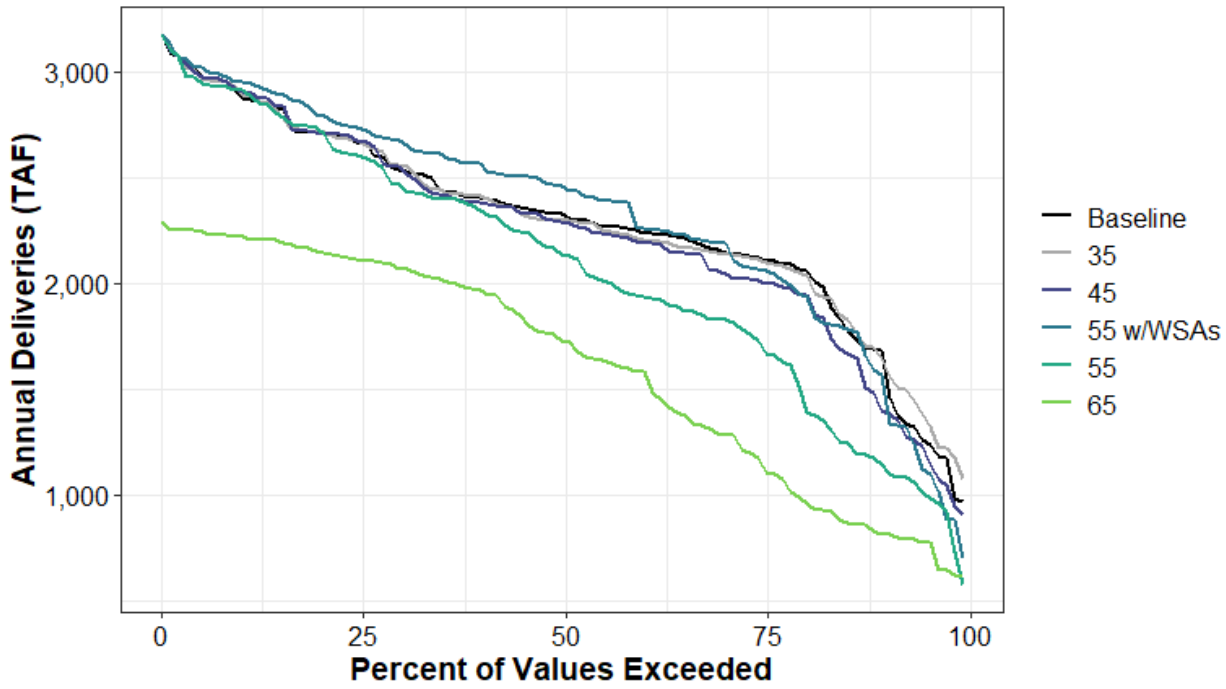

Figure H1a3-214. Surface Water Supplied to Total CVP South of Delta Annual Percent Exceedance Plot.

Table H1a3-432. Surface Water Supplied to Total CVP South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	3,179	3,178	3,178	3,178	3,178	2,294
10%	2,885	2,896	2,911	2,953	2,912	2,223
20%	2,712	2,711	2,714	2,795	2,721	2,150
30%	2,537	2,558	2,538	2,666	2,452	2,067
40%	2,403	2,409	2,382	2,557	2,342	1,961
50%	2,328	2,301	2,292	2,464	2,141	1,730
60%	2,240	2,206	2,193	2,261	1,940	1,584
70%	2,150	2,139	2,049	2,189	1,830	1,285
80%	2,067	2,047	1,944	1,947	1,462	974
90%	1,638	1,625	1,394	1,522	1,137	810
100%	963	1,071	907	697	573	615
Mean	2,294	2,296	2,246	2,327	2,084	1,618

Table H1a3-433. Surface Water Supplied to Total CVP South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,568	1,596	1,453	1,375	1,190	904
D	2,170	2,157	2,073	2,168	1,788	1,333
BN	2,250	2,256	2,236	2,362	2,001	1,557
AN	2,346	2,364	2,332	2,532	2,261	1,872
W	2,778	2,771	2,768	2,849	2,761	2,145
All	2,294	2,296	2,246	2,327	2,084	1,618

H1a3.6.55 CVP South of Delta Water Service (Agricultural)

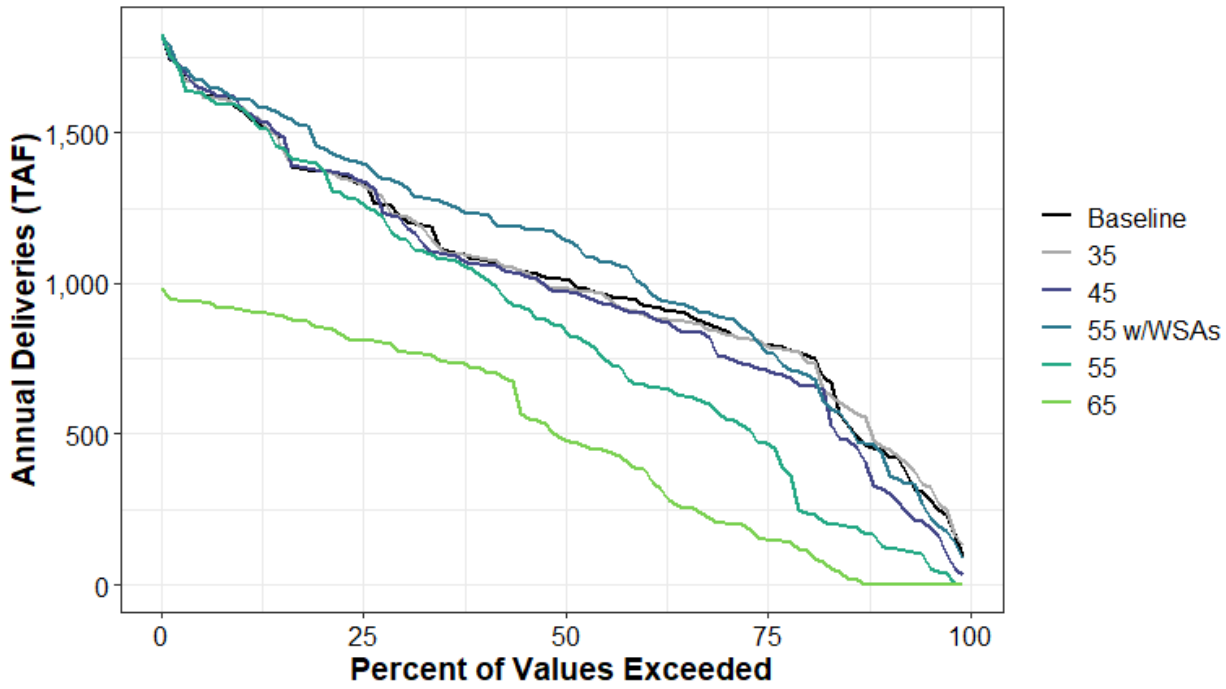

Figure H1a3-215. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-434. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	1,827	1,827	1,827	1,827	1,827	985
10%	1,576	1,584	1,582	1,611	1,582	914
20%	1,372	1,375	1,376	1,453	1,384	852
30%	1,217	1,227	1,207	1,327	1,147	772
40%	1,077	1,085	1,062	1,230	1,023	717
50%	1,015	983	973	1,148	858	489
60%	930	900	901	999	666	382
70%	847	837	758	887	559	206
80%	768	760	663	704	244	118
90%	444	459	314	421	127	0
100%	91	130	33	88	1	0
Mean	1,017	1,016	977	1,069	850	491

Table H1a3-435. Surface Water Supplied to CVP South of Delta Water Service (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	497	497	395	393	240	100
D	873	863	789	897	562	277
BN	937	944	937	1,046	716	419
AN	1,036	1,053	1,024	1,215	960	626
W	1,443	1,436	1,433	1,513	1,428	848
All	1,017	1,016	977	1,069	850	491

H1a3.6.56 CVP South of Delta Water Service (M&I)

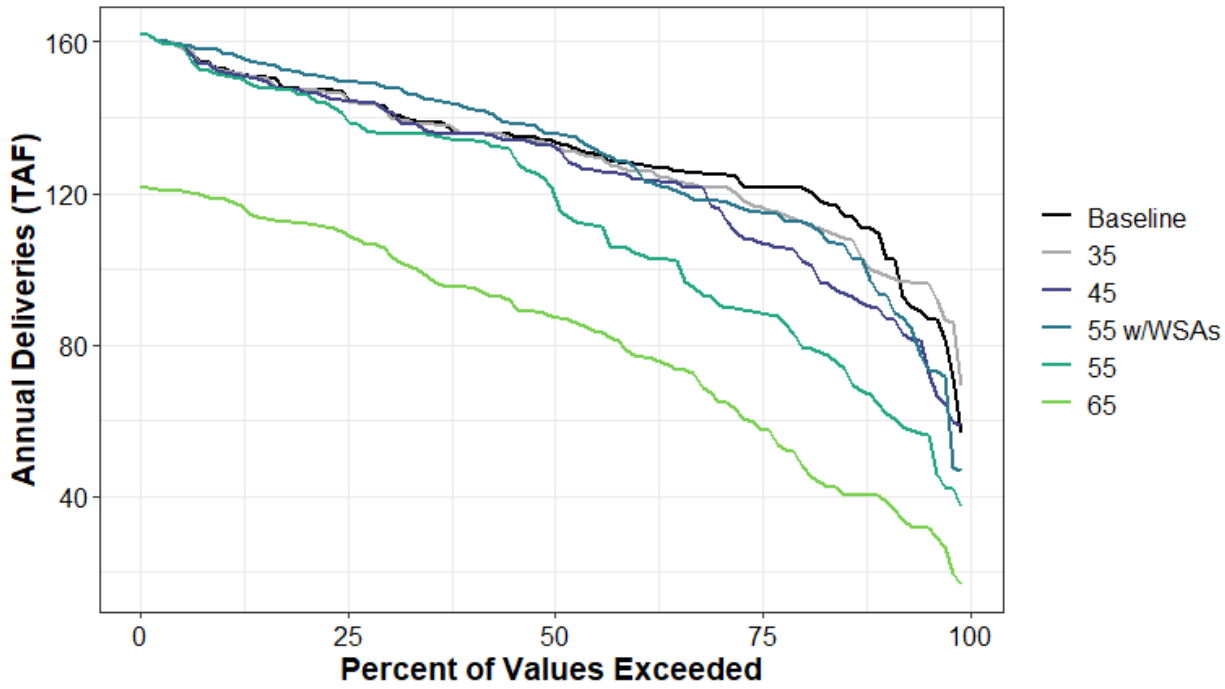

Figure H1a3-216. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Percent Exceedance Plot.

Table H1a3-436. Surface Water Supplied to CVP South of Delta Water Service (M&I) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	162	162	162	162	162	122
10%	153	152	152	157	151	119
20%	147	147	147	152	146	112
30%	142	141	142	148	136	105
40%	136	136	136	143	134	95
50%	134	133	133	136	122	87
60%	128	126	124	127	104	78
70%	125	122	116	118	91	66
80%	122	113	104	113	82	50
90%	108	99	89	94	64	40
100%	57	69	59	47	37	17
Mean	131	129	125	130	113	82

Table H1a3-437. Surface Water Supplied to CVP South of Delta Water Service (M&I) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	101	102	92	88	73	51
D	127	121	114	119	93	61
BN	130	129	124	134	110	78
AN	132	133	132	140	125	94
W	149	149	148	152	147	112
All	131	129	125	130	113	82

H1a3.6.57 CVP SOD Exchange

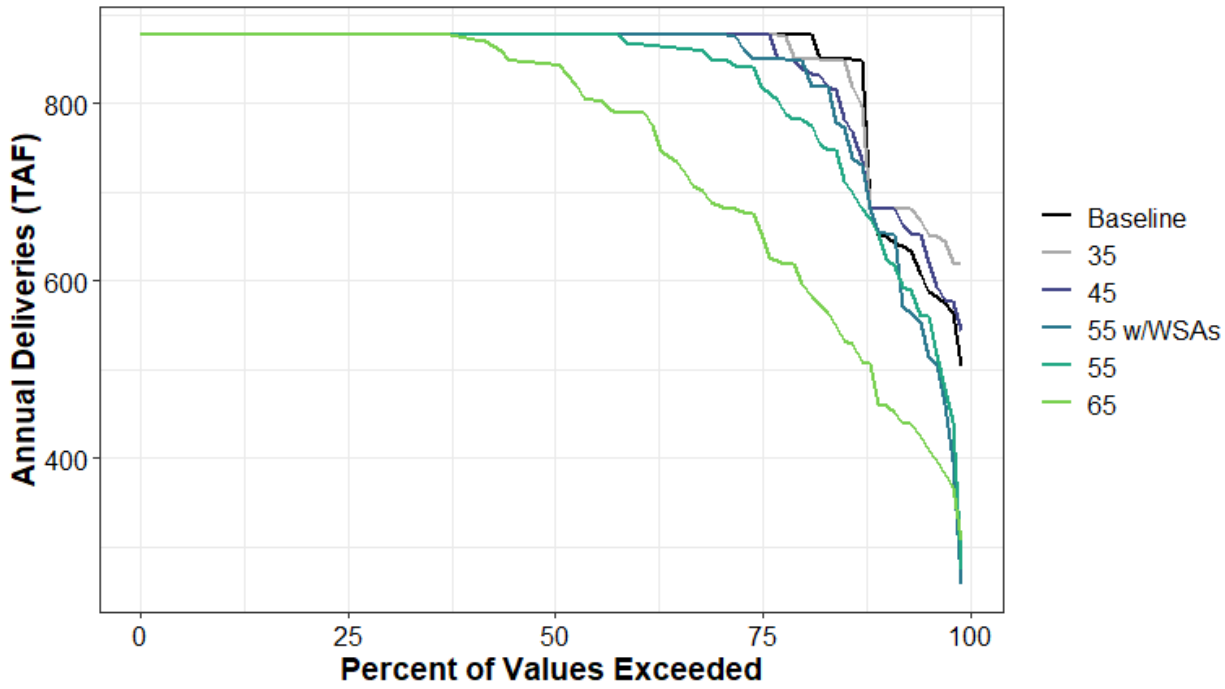

Figure H1a3-217. Surface Water Supplied to CVP SOD Exchange Annual Percent Exceedance Plot.

Table H1a3-438. Surface Water Supplied to CVP SOD Exchange Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	874
50%	878	878	878	878	878	844
60%	878	878	878	878	868	790
70%	878	878	878	878	849	687
80%	878	851	845	848	783	609
90%	651	682	682	654	647	460
100%	504	619	544	257	273	307
Mean	844	849	842	828	820	751

Table H1a3-439. Surface Water Supplied to CVP SOD Exchange Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	694	720	691	626	604	506
D	865	866	864	845	827	695
BN	875	875	868	875	868	761
AN	874	874	874	874	873	853
W	877	877	877	875	877	876
All	844	849	842	828	820	751

H1a3.6.58 CVP SOD Refuge

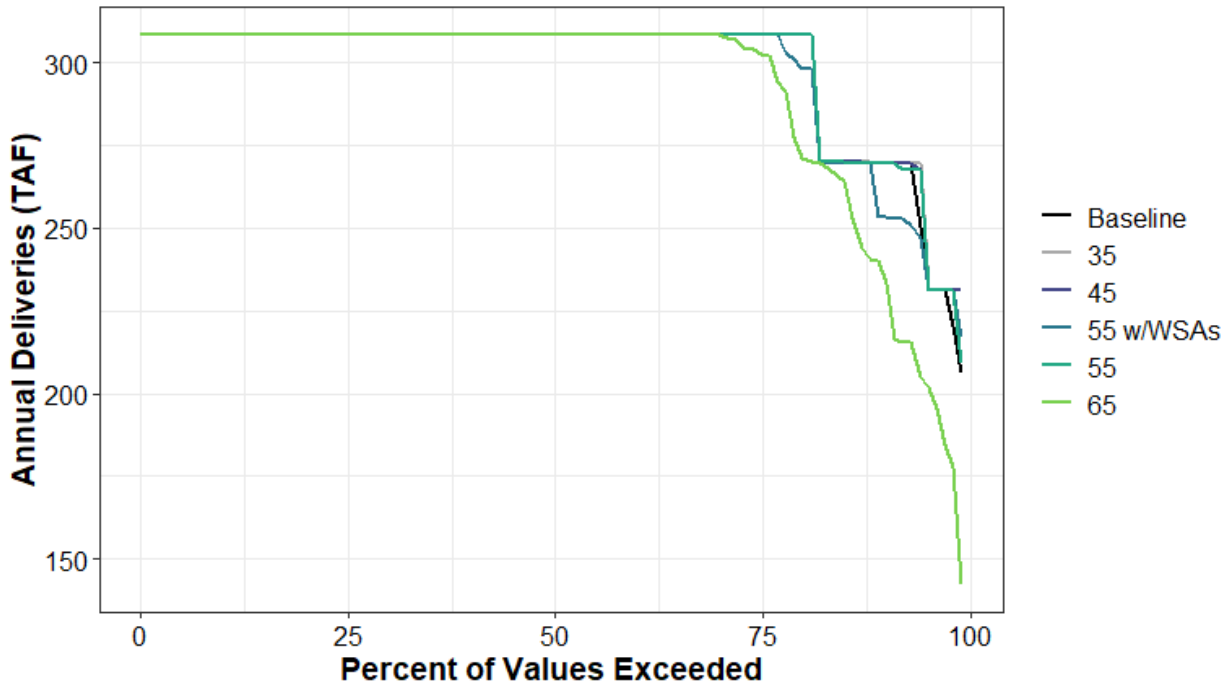

Figure H1a3-218. Surface Water Supplied to CVP SOD Refuge Annual Percent Exceedance Plot.

Table H1a3-440. Surface Water Supplied to CVP SOD Refuge Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
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	309
80%	309	309	309	300	309	275
90%	270	270	270	253	270	239
100%	206	231	231	217	209	142
Mean	299	300	300	298	299	292

Table H1a3-441. Surface Water Supplied to CVP SOD Refuge Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	271	272	272	264	271	245
D	302	303	303	303	303	297
BN	304	304	304	304	304	297
AN	302	302	302	302	302	297
W	307	307	307	307	307	307
All	299	300	300	298	299	292

H1a3.6.59 Total SWP Deliveries

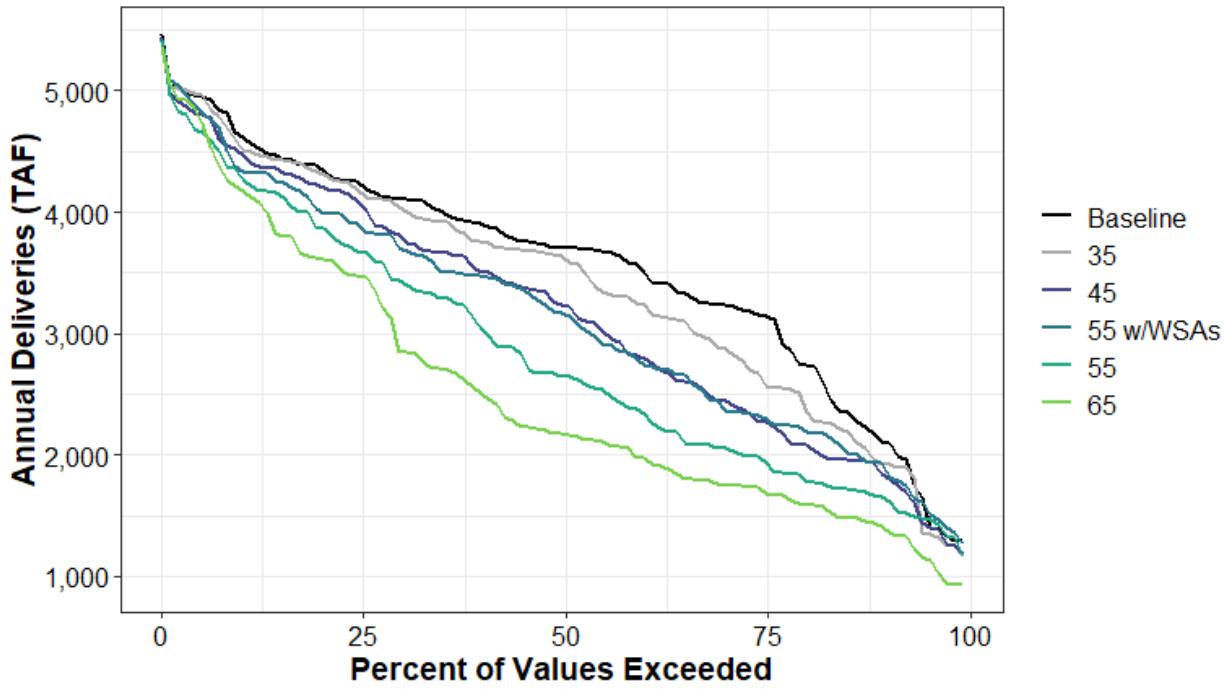

Figure H1a3-219. Surface Water Supplied to Total SWP Deliveries Annual Percent Exceedance Plot.

Table H1a3-442. Surface Water Supplied to Total SWP Deliveries Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	5,465	5,441	5,431	5,419	5,402	5,359
10%	4,630	4,532	4,486	4,345	4,289	4,179
20%	4,351	4,320	4,208	4,005	3,868	3,619
30%	4,112	4,025	3,784	3,697	3,422	2,849
40%	3,903	3,755	3,502	3,472	3,032	2,499
50%	3,710	3,633	3,237	3,167	2,652	2,172
60%	3,512	3,241	2,801	2,756	2,349	1,972
70%	3,231	2,885	2,442	2,400	2,058	1,757
80%	2,745	2,446	2,084	2,212	1,814	1,599
90%	2,110	1,925	1,833	1,908	1,644	1,402
100%	1,288	1,154	1,183	1,272	1,178	930
Mean	3,551	3,393	3,157	3,136	2,834	2,525

Table H1a3-443. Surface Water Supplied to Total SWP Deliveries Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	2,043	1,908	1,821	1,888	1,663	1,328
D	3,234	2,913	2,539	2,427	2,159	1,939
BN	3,631	3,381	3,022	3,094	2,625	2,235
AN	3,782	3,734	3,465	3,436	2,905	2,355
W	4,446	4,406	4,286	4,227	4,056	3,846
All	3,551	3,393	3,157	3,136	2,834	2,525

H1a3.6.60 Total SWP Table A

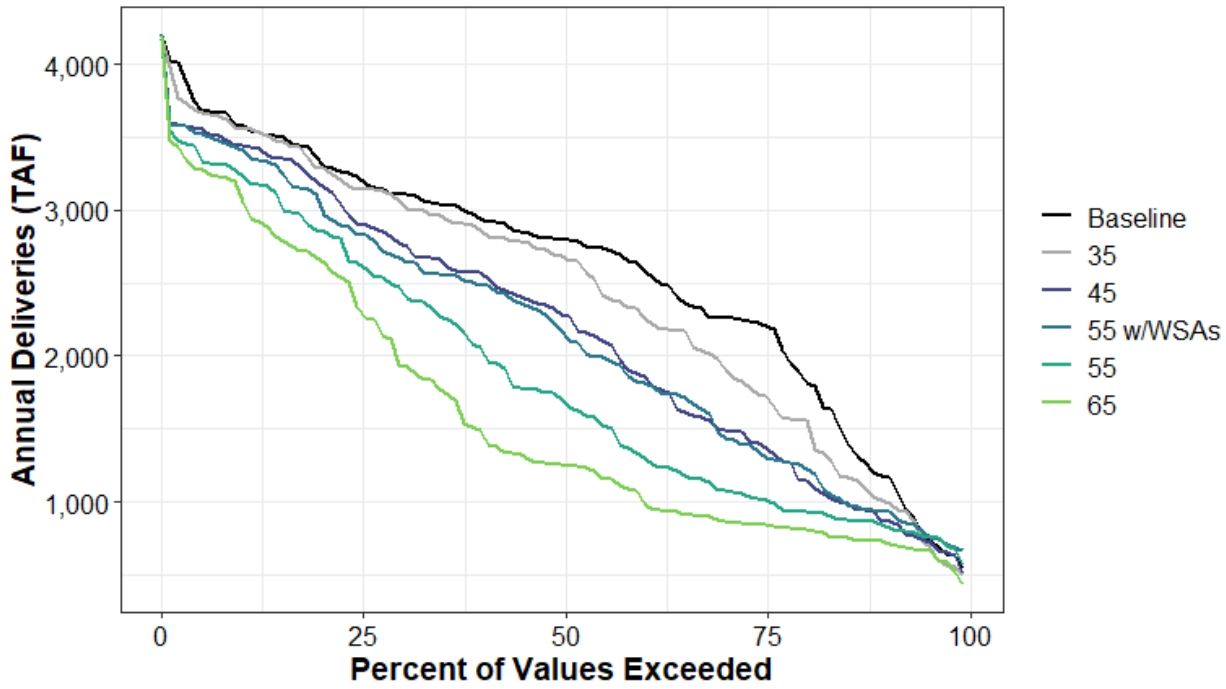

Figure H1a3-220. Surface Water Supplied to Total SWP Table A Annual Percent Exceedance Plot.

Table H1a3-444. Surface Water Supplied to Total SWP Table A Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	4,190	4,172	4,190	4,205	4,173	4,194
10%	3,577	3,560	3,445	3,419	3,244	3,083
20%	3,326	3,284	3,171	3,023	2,859	2,654
30%	3,110	3,042	2,761	2,663	2,442	1,936
40%	2,941	2,854	2,563	2,488	2,036	1,474
50%	2,796	2,691	2,283	2,168	1,700	1,254
60%	2,595	2,274	1,863	1,816	1,308	1,008
70%	2,263	1,937	1,502	1,451	1,081	875
80%	1,866	1,561	1,148	1,246	937	813
90%	1,183	1,006	872	935	846	727
100%	549	499	514	664	567	433
Mean	2,595	2,435	2,177	2,142	1,862	1,595

Table H1a3-445. Surface Water Supplied to Total SWP Table A Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,190	1,075	984	1,015	889	702
D	2,273	1,942	1,569	1,451	1,221	1,045
BN	2,700	2,452	2,097	2,148	1,670	1,331
AN	2,830	2,775	2,470	2,425	1,921	1,366
W	3,421	3,375	3,191	3,133	2,949	2,734
All	2,595	2,435	2,177	2,142	1,862	1,595

H1a3.6.61 SWP Table A North of Delta

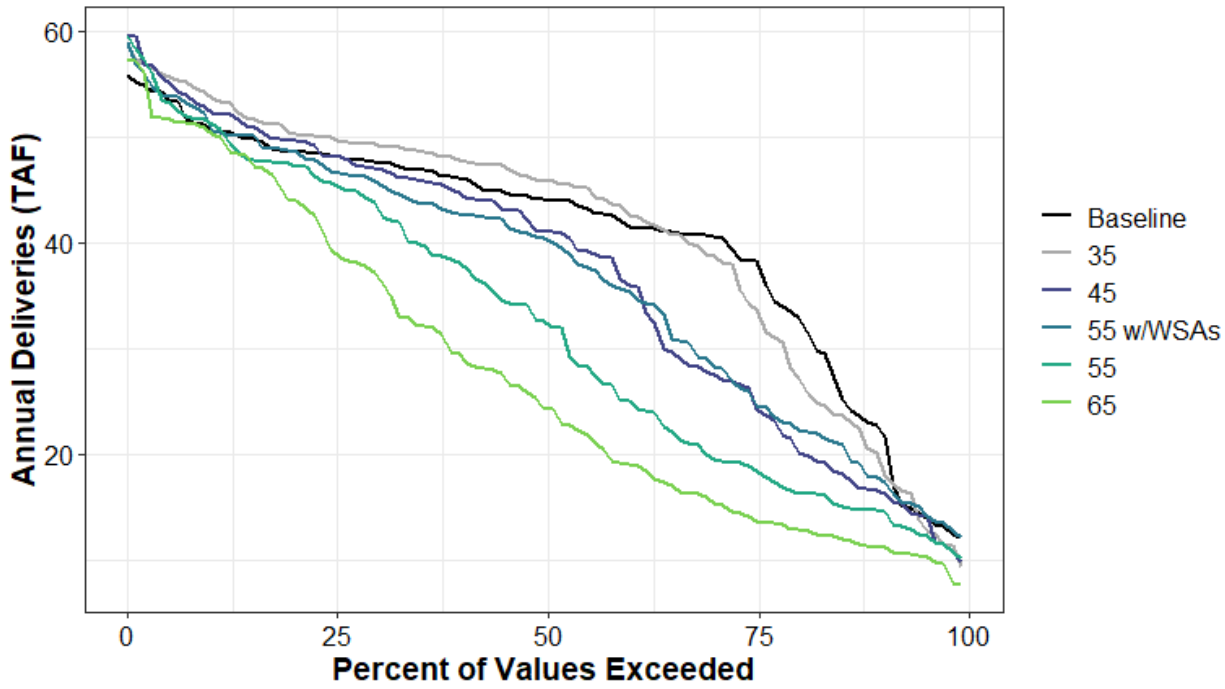

Figure H1a3-221. Surface Water Supplied to SWP Table A North of Delta Annual Percent Exceedance Plot.

Table H1a3-446. Surface Water Supplied to SWP Table A North of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	56	59	60	59	59	57
10%	51	54	52	51	51	50
20%	49	50	50	49	47	44
30%	48	49	47	46	43	37
40%	46	48	45	43	38	29
50%	44	46	41	40	33	24
60%	42	43	36	35	25	19
70%	41	39	28	29	20	16
80%	33	28	21	23	16	13
90%	22	20	16	18	15	11
100%	12	9	10	12	10	8
Mean	41	41	37	37	32	28

Table H1a3-447. Surface Water Supplied to SWP Table A North of Delta Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	21	19	16	17	14	11
D	37	35	29	27	21	17
BN	43	44	37	39	30	23
AN	46	48	46	44	38	30
W	50	52	50	49	48	46
All	41	41	37	37	32	28

H1a3.6.62 SWP Table A South of Delta

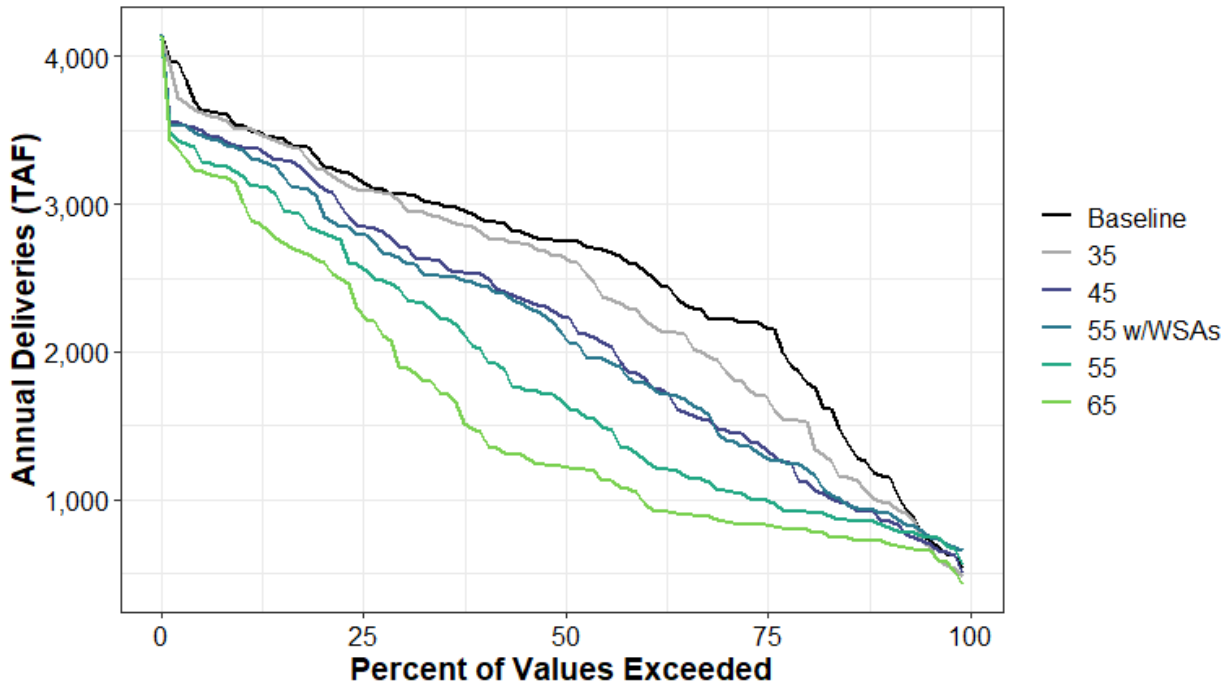

Figure H1a3-222. Surface Water Supplied to SWP Table A South of Delta Annual Percent Exceedance Plot.

Table H1a3-448. Surface Water Supplied to SWP Table A South of Delta Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	4,135	4,115	4,133	4,148	4,116	4,137
10%	3,528	3,506	3,390	3,369	3,197	3,035
20%	3,277	3,236	3,118	2,971	2,809	2,611
30%	3,064	2,996	2,711	2,621	2,399	1,898
40%	2,895	2,804	2,517	2,444	1,997	1,441
50%	2,750	2,645	2,244	2,133	1,672	1,224
60%	2,555	2,233	1,825	1,786	1,281	991
70%	2,221	1,895	1,477	1,421	1,061	861
80%	1,833	1,531	1,129	1,224	922	799
90%	1,160	984	853	914	831	717
100%	535	486	504	651	556	425
Mean	2,555	2,394	2,140	2,105	1,830	1,567

Table H1a3-449. Surface Water Supplied to SWP Table A South of Delta Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	1,169	1,056	968	998	874	691
D	2,236	1,906	1,541	1,424	1,199	1,028
BN	2,657	2,408	2,060	2,108	1,640	1,308
AN	2,784	2,727	2,424	2,381	1,883	1,336
W	3,371	3,324	3,140	3,083	2,901	2,688
All	2,555	2,394	2,140	2,105	1,830	1,567

H1a3.6.63 Total SWP Article 21

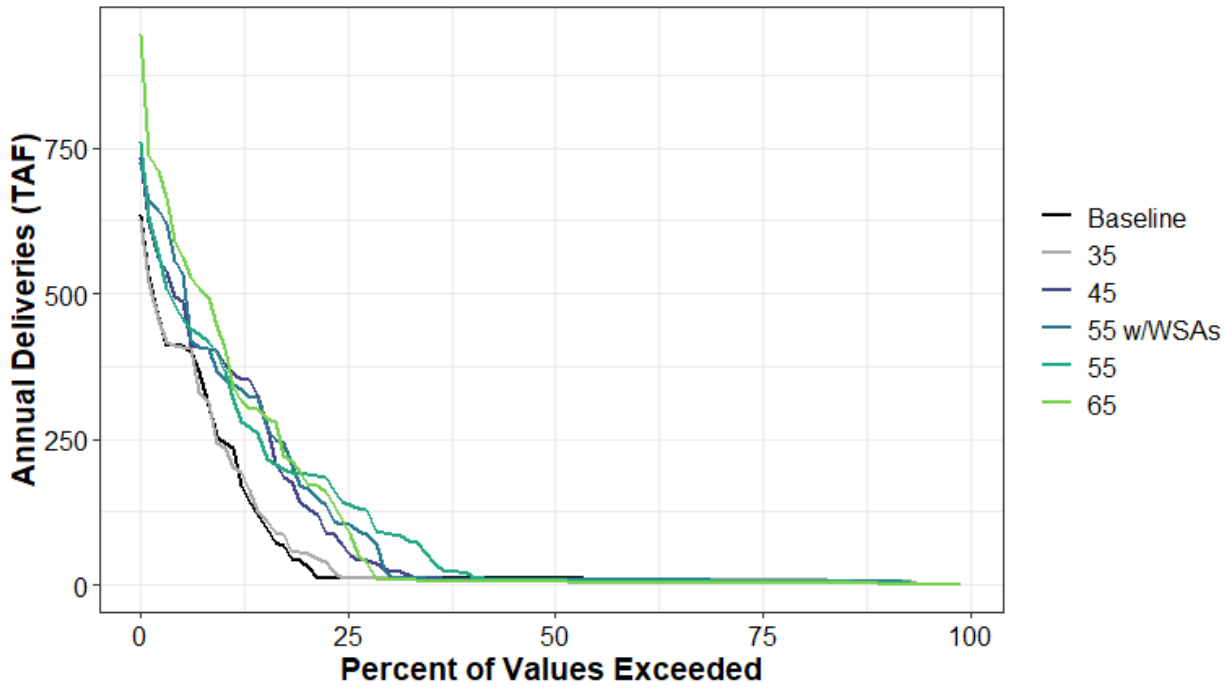

Figure H1a3-223. Surface Water Supplied to Total SWP Article 21 Annual Percent Exceedance Plot.

Table H1a3-450. Surface Water Supplied to Total SWP Article 21 Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	633	627	733	723	761	946
10%	244	236	383	355	373	413
20%	35	54	136	168	190	180
30%	11	11	26	19	88	8
40%	11	10	10	9	17	6
50%	10	9	8	8	7	5
60%	9	9	8	8	6	4
70%	9	8	7	7	6	3
80%	8	7	6	6	5	2
90%	6	6	5	5	4	2
100%	0	0	0	0	0	0
Mean	62	63	91	98	100	103

Table H1a3-451. Surface Water Supplied to Total SWP Article 21 Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	21	26	41	53	39	2
D	29	31	37	37	32	29
BN	18	8	12	28	49	67
AN	62	63	100	112	94	123
W	136	140	204	204	216	227
All	62	63	91	98	100	103

H1a3.6.64 SWP Article 21 Central Coast and Tulare

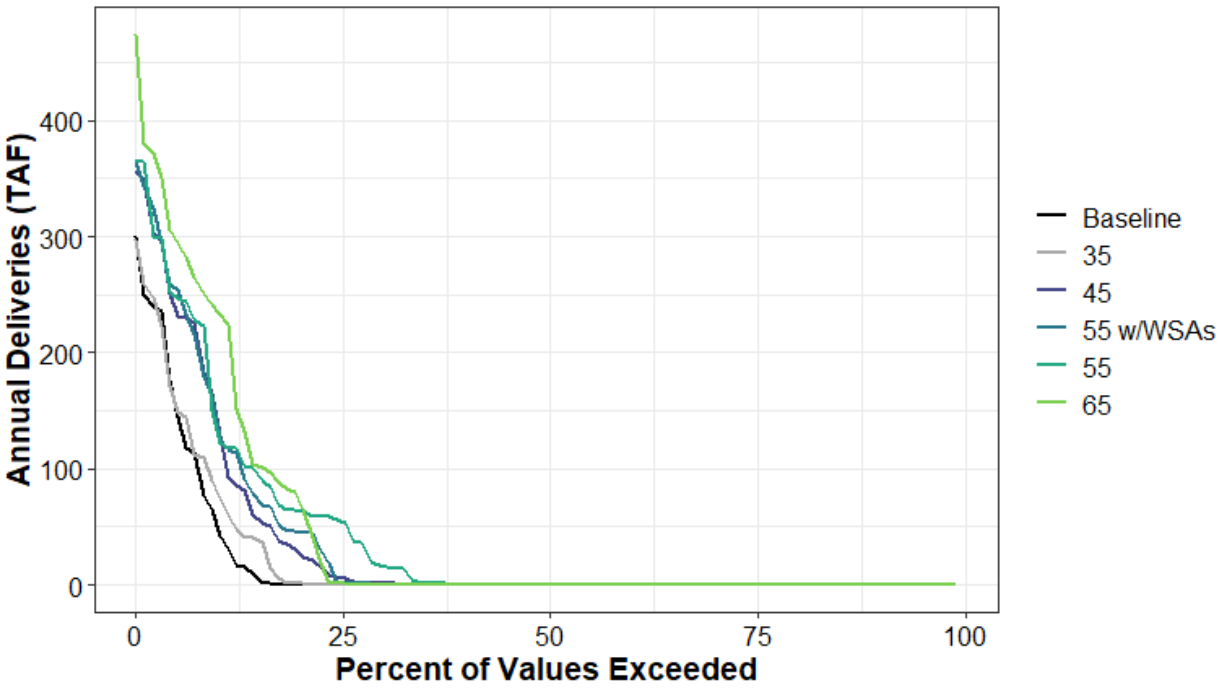

Figure H1a3-224. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Percent Exceedance Plot.

Table H1a3-452. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	300	297	356	365	366	474
10%	47	78	136	133	128	235
20%	1	1	26	46	64	71
30%	1	1	1	1	17	1
40%	1	1	1	1	1	1
50%	0	0	1	1	1	0
60%	0	0	0	0	1	0
70%	0	0	0	0	0	0
80%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	19	22	34	36	42	47

Table H1a3-453. Surface Water Supplied to SWP Article 21 Central Coast and Tulare Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	8	11	21	24	21	0
D	10	12	17	17	16	15
BN	4	0	3	11	27	36
AN	7	10	12	12	20	40
W	45	53	82	83	89	105
All	19	22	34	36	42	47

H1a3.6.65 SWP Article 21 South Bay Aqueduct

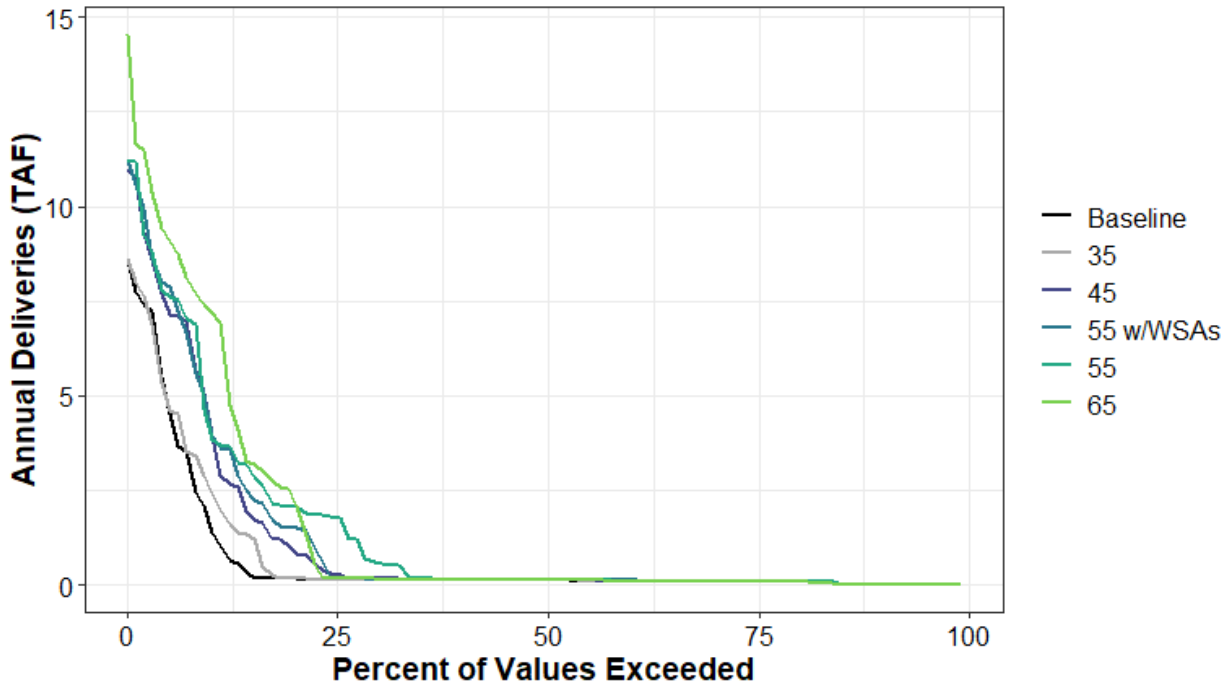

Figure H1a3-225. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Percent Exceedance Plot.

Table H1a3-454. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	8.6	8.6	11	11.2	11.2	14.6
10%	1.5	2.5	4.2	4.2	4	7.2
20%	0.2	0.2	0.9	1.5	2.1	2.2
30%	0.1	0.1	0.2	0.2	0.6	0.2
40%	0.1	0.1	0.1	0.1	0.2	0.1
50%	0.1	0.1	0.1	0.1	0.1	0.1
60%	0.1	0.1	0.1	0.1	0.1	0.1
70%	0.1	0.1	0.1	0.1	0.1	0.1
80%	0.1	0.1	0.1	0.1	0.1	0.1
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	0.7	0.7	1.1	1.2	1.3	1.5

Table H1a3-455. Surface Water Supplied to SWP Article 21 South Bay Aqueduct Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	0.3	0.4	0.7	0.8	0.7	0.1
D	0.4	0.5	0.6	0.6	0.6	0.6
BN	0.2	0.1	0.2	0.4	0.9	1.2
AN	0.3	0.4	0.5	0.5	0.7	1.3
W	1.4	1.6	2.5	2.6	2.8	3.3
All	0.7	0.7	1.1	1.2	1.3	1.5

H1a3.6.66 SWP Article 21 South Coast

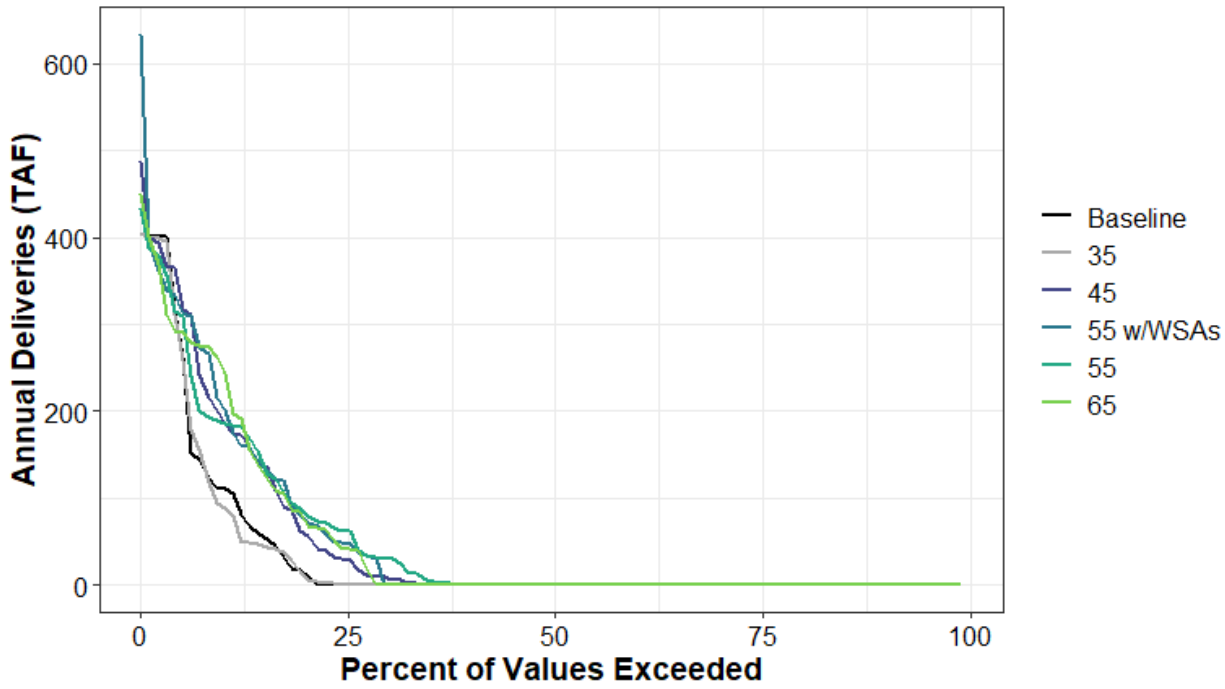

Figure H1a3-226. Surface Water Supplied to SWP Article 21 South Coast Annual Percent Exceedance Plot.

Table H1a3-456. Surface Water Supplied to SWP Article 21 South Coast Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	449	405	487	634	433	450
10%	111	90	189	203	186	248
20%	12	10	59	75	83	74
30%	0	0	8	1	31	0
40%	0	0	0	0	1	0
50%	0	0	0	0	0	0
60%	0	0	0	0	0	0
70%	0	0	0	0	0	0
80%	0	0	0	0	0	0
90%	0	0	0	0	0	0
100%	0	0	0	0	0	0
Mean	34	33	50	53	51	51

Table H1a3-457. Surface Water Supplied to SWP Article 21 South Coast Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	7	8	15	23	13	0
D	11	12	14	14	11	10
BN	4	0	3	11	17	27
AN	46	44	80	92	67	77
W	80	77	111	110	116	112
All	34	33	50	53	51	51

H1a3.6.67 SWP Article 21 Napa

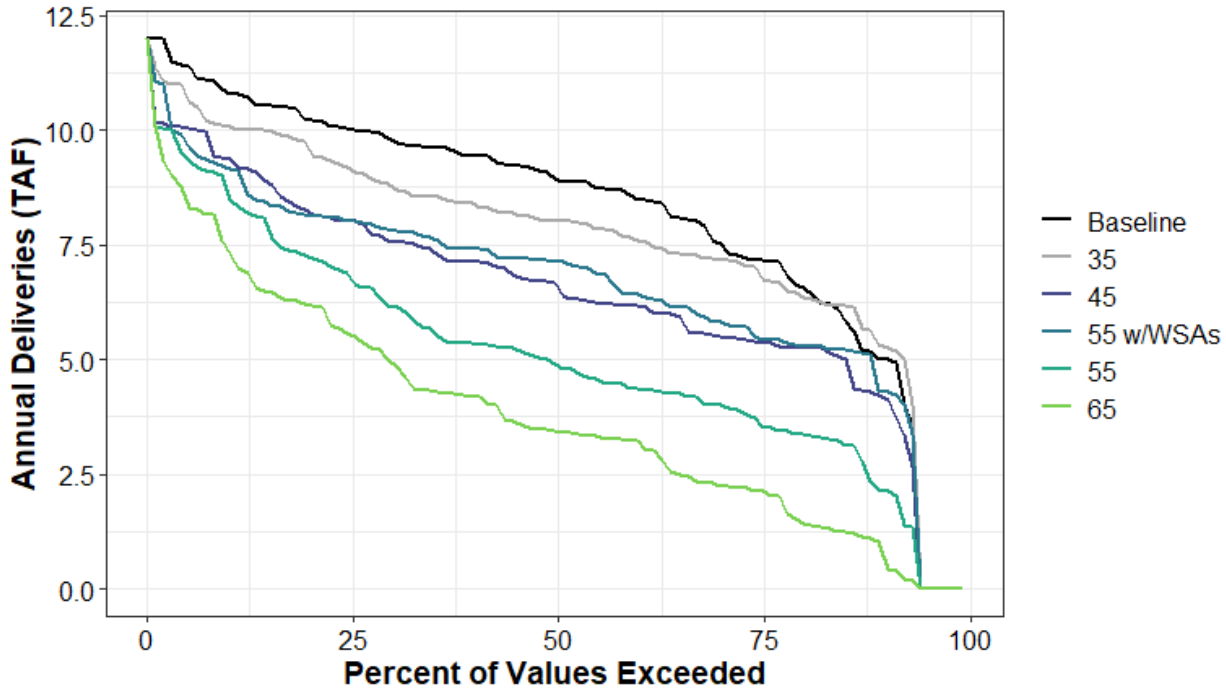

Figure H1a3-227. Surface Water Supplied to SWP Article 21 Napa Annual Percent Exceedance Plot.

Table H1a3-458. Surface Water Supplied to SWP Article 21 Napa Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	12	12	12	12	12	12
10%	10.8	10.1	9.4	9.2	8.6	7.4
20%	10.2	9.6	8.2	8.1	7.2	6.2
30%	9.8	8.8	7.6	7.8	6.2	4.9
40%	9.4	8.4	7.1	7.4	5.3	4.2
50%	8.9	8	6.7	7.1	4.9	3.4
60%	8.5	7.6	6.2	6.4	4.4	3.2
70%	7.5	7.2	5.5	5.8	4	2.3
80%	6.6	6.4	5.3	5.3	3.4	1.5
90%	5	5.3	4.2	4.3	2.2	0.9
100%	0	0	0	0	0	0
Mean	8.2	7.7	6.5	6.7	5.1	3.9

Table H1a3-459. Surface Water Supplied to SWP Article 21 Napa Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	5.7	6	4.8	5.5	3	1.4
D	7.3	6.8	5.7	5.8	3.9	2.3
BN	8.5	7.3	5.6	6.1	4.3	3.2
AN	9.3	8.6	7.2	7.3	5.7	4.7
W	9.6	9	8.3	8	7.5	6.4
All	8.2	7.7	6.5	6.7	5.1	3.9

H1a3.6.68 SWP Feather River Service Area (Agricultural)

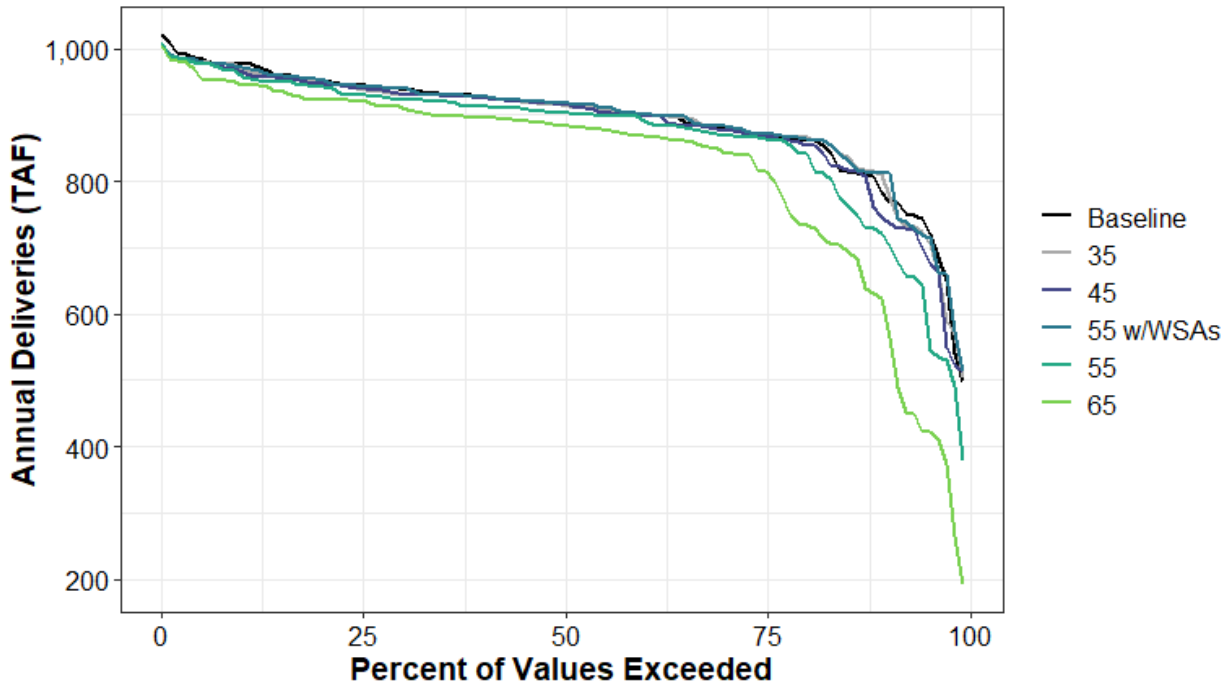

Figure H1a3-228. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Percent Exceedance Plot.

Table H1a3-460. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	1,022	1,010	1,010	1,010	1,010	1,004
10%	976	969	966	973	960	947
20%	953	949	948	953	943	923
30%	939	931	932	940	924	911
40%	928	925	926	928	914	896
50%	916	915	916	917	903	884
60%	901	901	900	903	893	869
70%	883	884	878	884	870	845
80%	864	866	858	866	842	735
90%	781	803	744	812	718	612
100%	498	502	514	513	378	192
Mean	894	892	886	895	869	824

Table H1a3-461. Surface Water Supplied to SWP Feather River Service Area (Agricultural) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	830	801	789	815	730	619
D	932	937	928	937	903	864
BN	913	918	908	917	902	833
AN	890	894	892	899	887	862
W	889	889	889	890	889	883
All	894	892	886	895	869	824

H1a3.6.69 SWP Settlement (Urban)

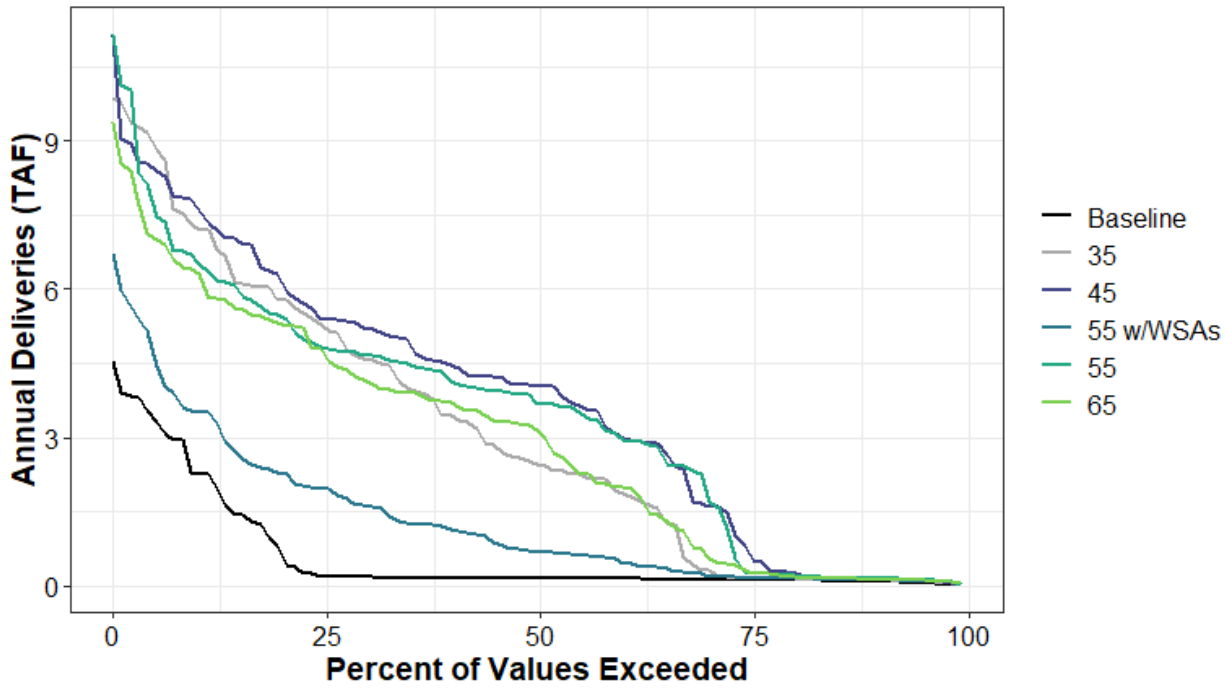

Figure H1a3-229. Surface Water Supplied to SWP Settlement (Urban) Annual Percent Exceedance Plot.

Table H1a3-462. Surface Water Supplied to SWP Settlement (Urban) Annual Exceedance Probability Distribution by Scenario (TAF).

	Baseline	35	45	55 w/WSAs	55	65
0%	4.5	9.9	11.1	6.7	11.2	9.4
10%	2.3	7.2	7.6	3.5	6.6	6.3
20%	0.6	5.8	6.1	2.3	5.4	5.3
30%	0.2	4.6	5.2	1.6	4.7	4.1
40%	0.2	3.4	4.4	1.1	4.1	3.7
50%	0.2	2.4	4.1	0.7	3.7	3.1
60%	0.1	1.9	3	0.5	3	2
70%	0.1	0.3	1.6	0.2	1.9	0.6
80%	0.1	0.1	0.3	0.1	0.2	0.2
90%	0.1	0.1	0.1	0.1	0.2	0.1
100%	0	0.1	0	0.1	0	0.1
Mean	0.6	3.1	3.7	1.3	3.5	2.9

Table H1a3-463. Surface Water Supplied to SWP Settlement (Urban) Average by Water Year Type (TAF).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	2.5	6.5	6.6	3.8	5.5	3.9
D	0.4	3.6	4.1	1.3	3.2	2
BN	0.3	3.3	4.2	1.1	3.8	3.1
AN	0.1	2.2	3.1	0.6	3.6	3.7
W	0.1	1.2	2	0.4	2.3	2.7
All	0.6	3.1	3.7	1.3	3.5	2.9

H1a3.7 Groundwater Storage and Flows

H1a3.7.1 Total Groundwater Pumping

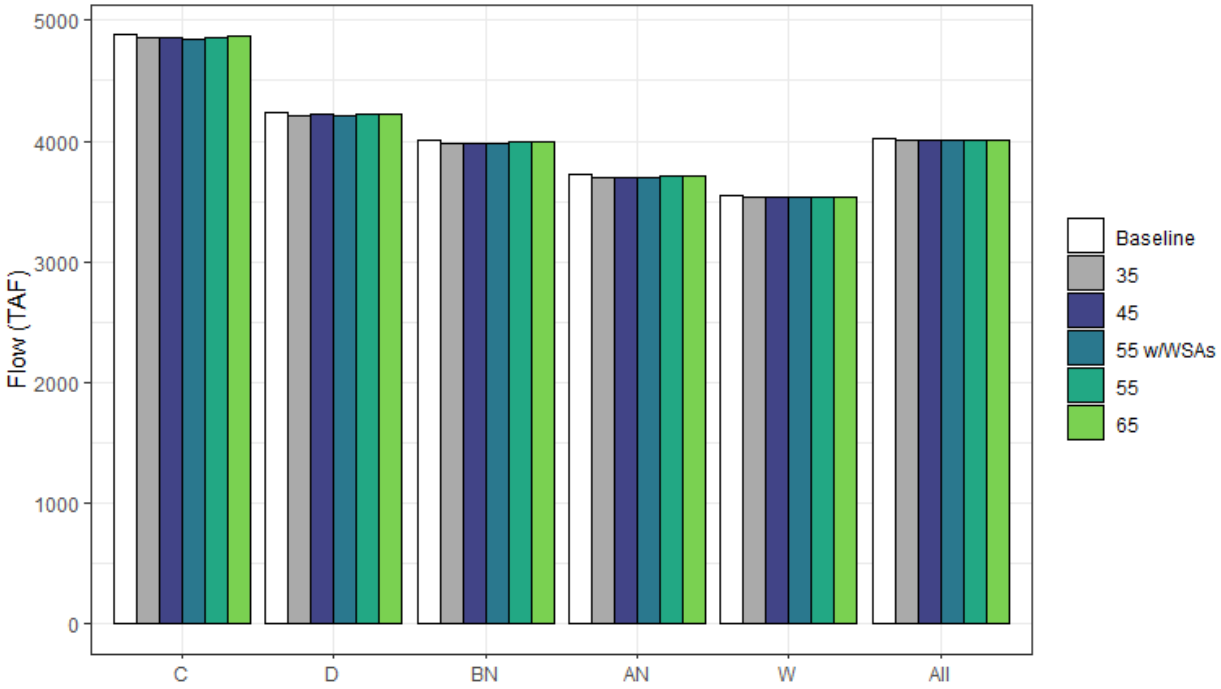

Figure H1a3-230. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

Table H1a3-464. Average Annual Groundwater Pumping Across All Basins by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	4,884	4,852	4,858	4,849	4,862	4,869
D	4,242	4,213	4,219	4,212	4,220	4,226
BN	4,006	3,983	3,984	3,984	3,990	3,991
AN	3,721	3,703	3,703	3,703	3,708	3,710
W	3,546	3,537	3,535	3,535	3,536	3,538
All	4,027	4,005	4,007	4,004	4,010	4,014

H1a3.7.2 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.

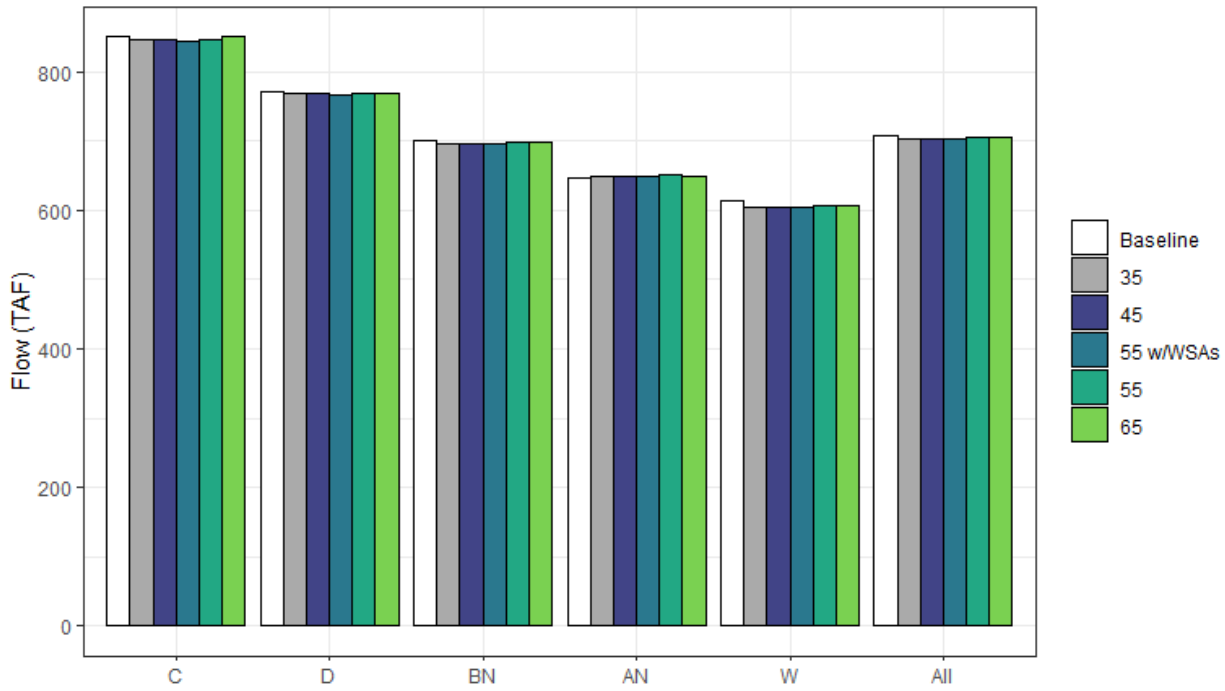

Figure H1a3-231. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a3-465. Average Total Annual Groundwater Pumping for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
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

H1a3.7.3 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.

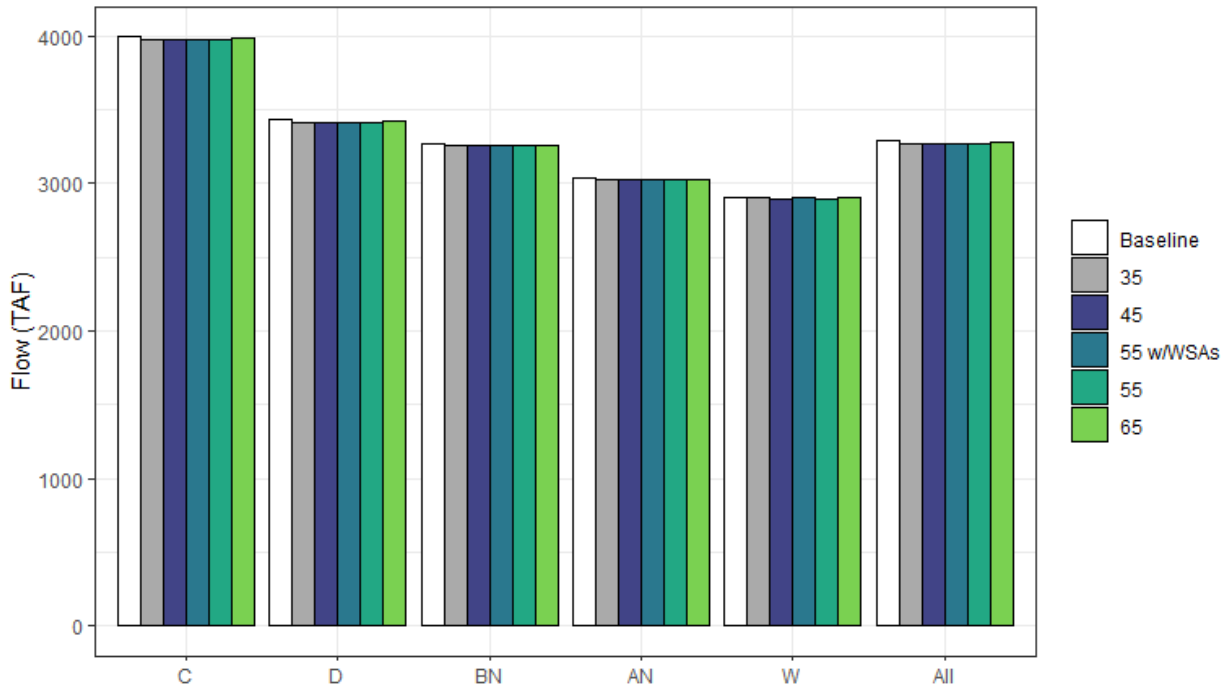

Figure H1a3-232. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

Table H1a3-466. Average Total Annual Groundwater Pumping for the Sacramento Watershed Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	3,998	3,971	3,976	3,970	3,981	3,984
D	3,439	3,411	3,417	3,413	3,418	3,423
BN	3,273	3,255	3,255	3,256	3,259	3,261
AN	3,043	3,024	3,024	3,024	3,028	3,031
W	2,902	2,902	2,900	2,900	2,899	2,902
All	3,287	3,270	3,272	3,270	3,274	3,277

H1a3.7.4 Groundwater Pumping by Basin

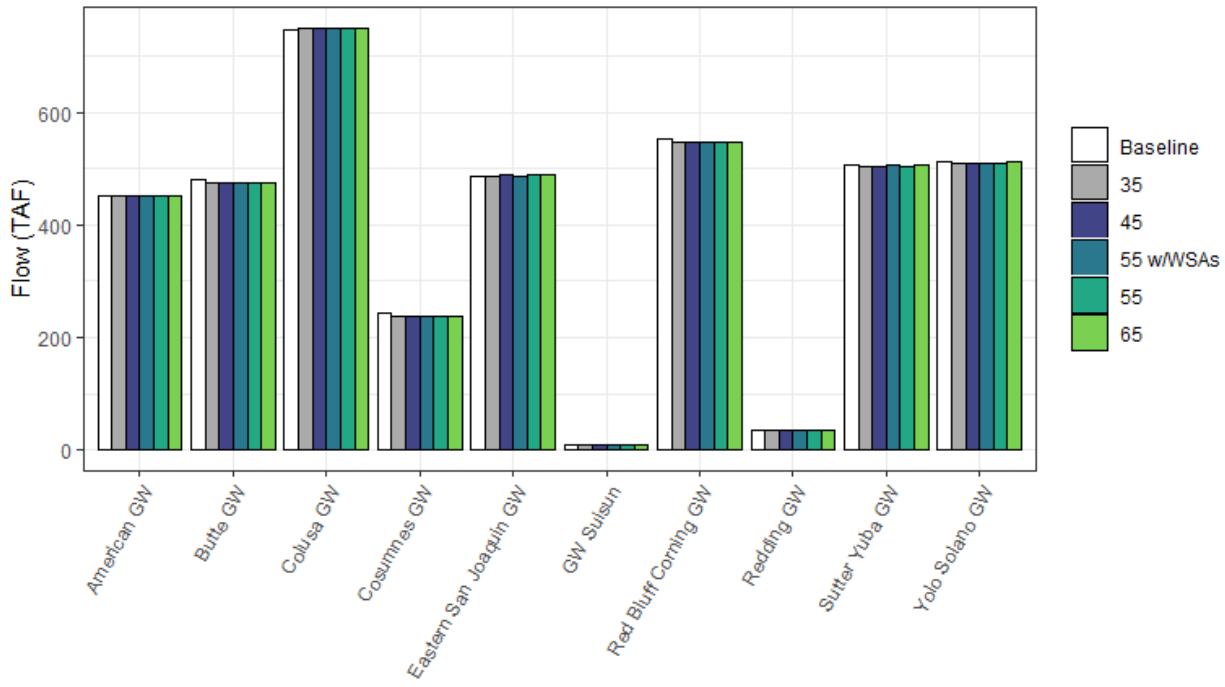

Figure H1a3-233. Annual Average Groundwater Pumping by Basin (TAF/yr).

Table H1a3-467. Annual Average Groundwater Pumping by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35	45	55 w/WSAs	55	65
American GW	453	-2	-2	-2	-1	-1
Butte GW	479	-4	-4	-4	-3	-4
Colusa GW	747	2	2	2	2	3
Cosumnes GW	243	-5	-5	-5	-5	-5
Eastern San Joaquin GW	487	0	0	0	2	2
GW Suisun	10	0	0	0	0	0
Red Bluff Corning GW	554	-7	-6	-7	-7	-6
Redding GW	36	0	0	0	0	0
Sutter Yuba GW	506	-2	-1	-1	-1	0
Yolo Solano GW	513	-3	-3	-3	-3	-2

H1a3.7.5 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.

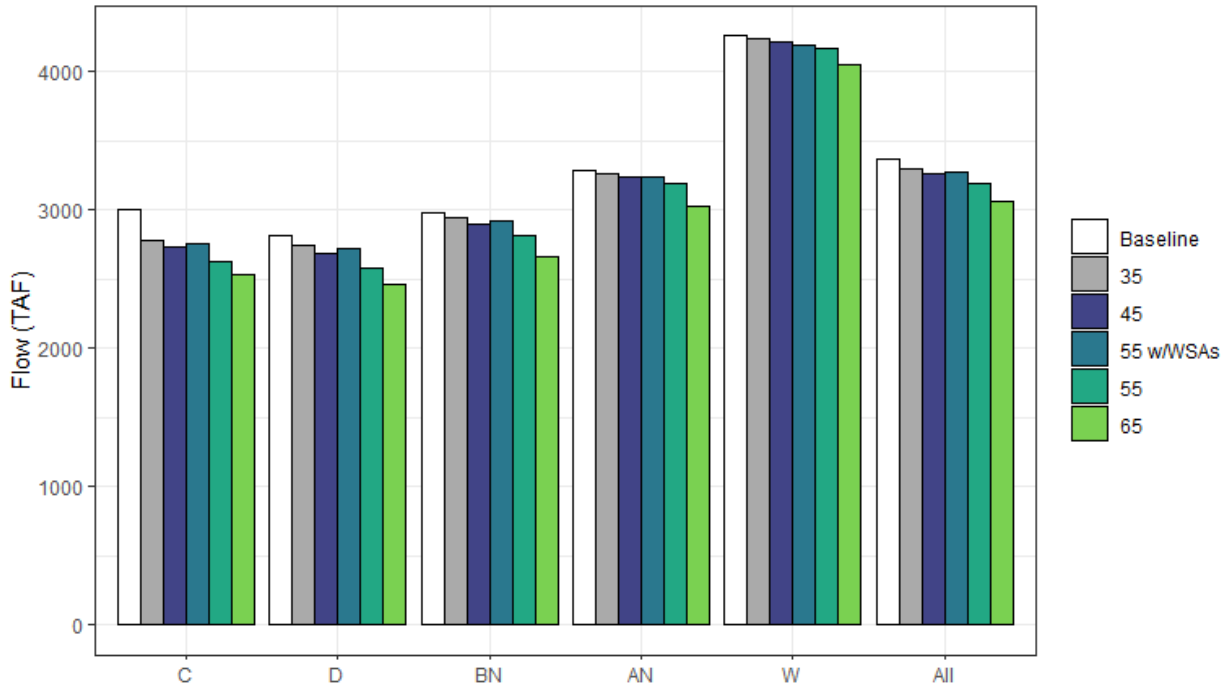

Figure H1a3-234. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

Table H1a3-468. Total Average Annual Groundwater Recharge by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	3,001	2,776	2,729	2,754	2,625	2,535
D	2,819	2,748	2,688	2,723	2,578	2,461
BN	2,982	2,941	2,899	2,925	2,816	2,665
AN	3,291	3,269	3,244	3,235	3,190	3,034
W	4,264	4,234	4,212	4,193	4,168	4,054
All	3,375	3,303	3,264	3,274	3,187	3,064

H1a3.7.6 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.

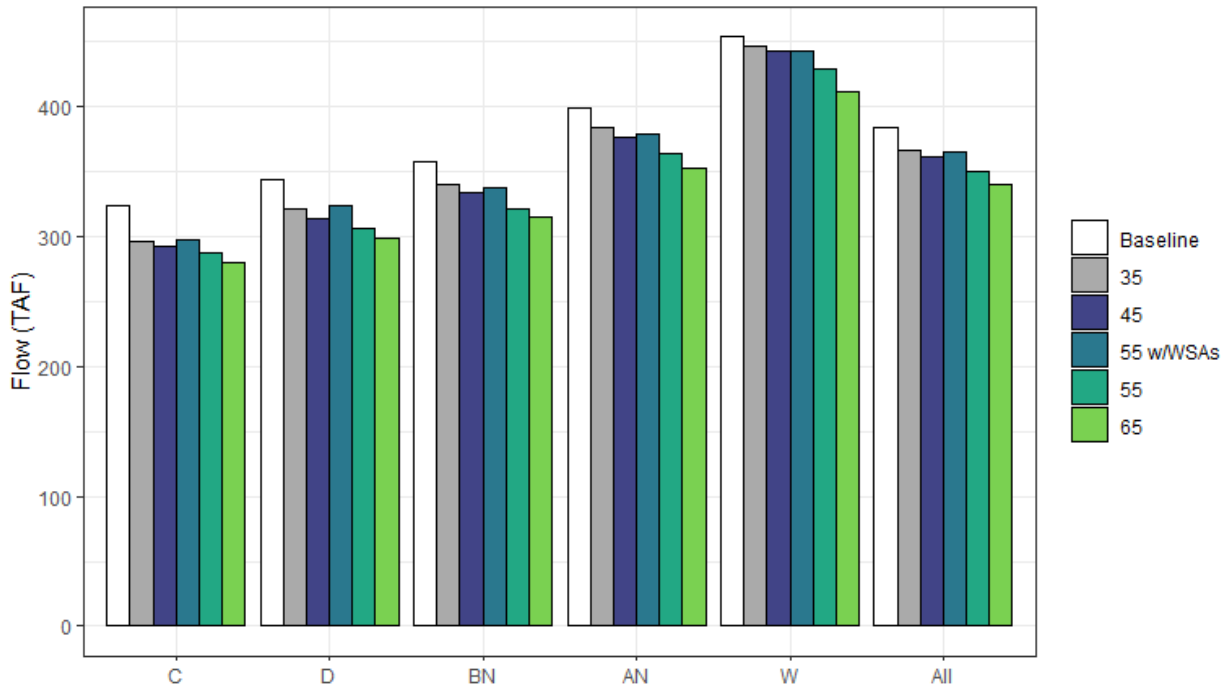

Figure H1a3-235. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a3-469. Total Average Annual Groundwater Recharge for the Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	324	297	292	297	287	280
D	344	321	314	323	306	299
BN	357	339	333	337	321	315
AN	399	383	376	379	363	353
W	454	447	443	442	429	411
All	383	366	361	364	350	339

H1a3.7.7 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.

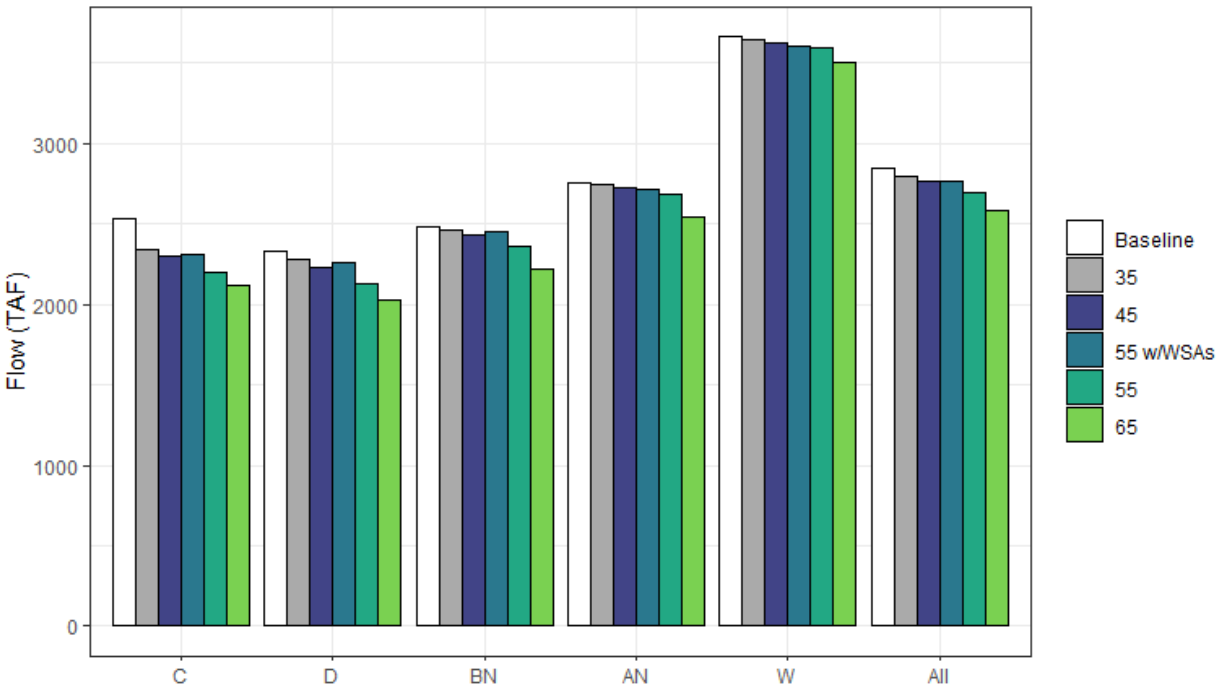

Figure H1a3-236. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a3-470. Total Average Annual Groundwater Recharge for the Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	2,534	2,339	2,298	2,315	2,200	2,117
D	2,330	2,285	2,233	2,257	2,132	2,023
BN	2,485	2,464	2,429	2,450	2,359	2,215
AN	2,752	2,748	2,731	2,717	2,690	2,545
W	3,667	3,646	3,628	3,609	3,598	3,503
All	2,849	2,797	2,764	2,769	2,699	2,587

H1a3.7.8 Total Groundwater Recharge by Basin

Total groundwater recharge includes stream gain/loss, infiltration from applied water and precipitation, and transmission losses.

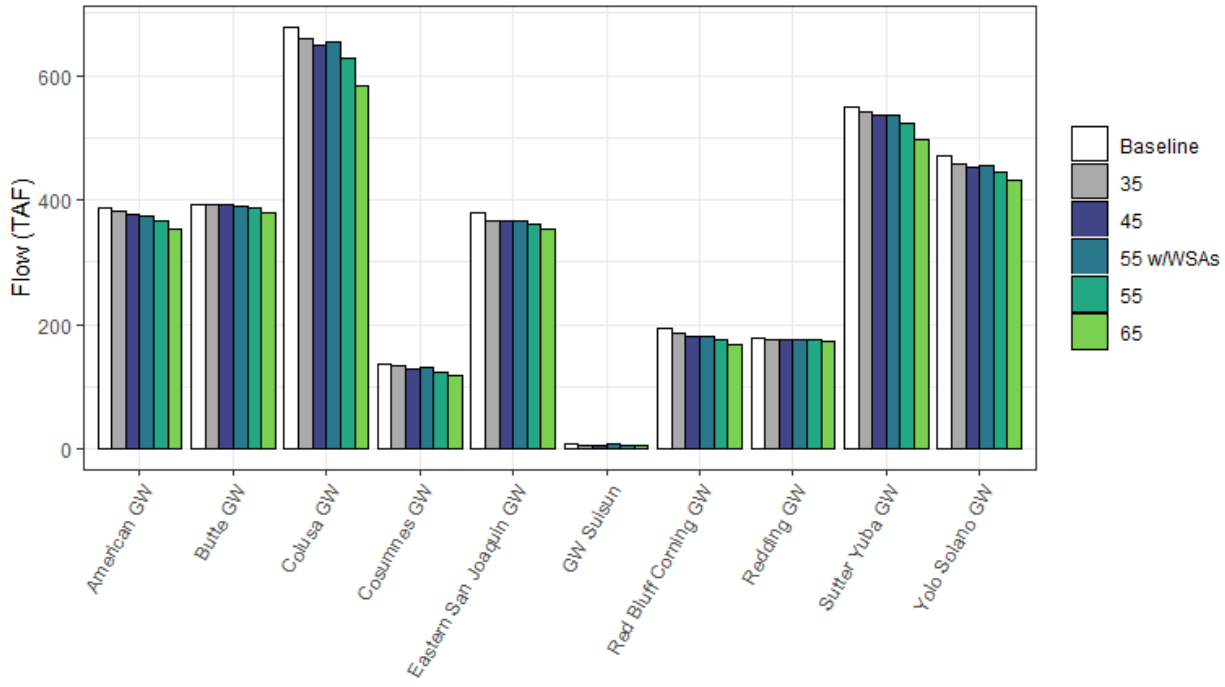

Figure H1a3-237. Annual Average Groundwater Recharge by Basin (TAF/yr).

Table H1a3-471. Annual Average Groundwater Recharge by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35	45	55 w/WSAs	55	65
American GW	388	-5	-11	-13	-22	-34
Butte GW	393	0	-1	-2	-6	-14
Colusa GW	678	-18	-28	-25	-49	-94
Cosumnes GW	137	-4	-8	-7	-14	-19
Eastern San Joaquin GW	380	-13	-14	-12	-20	-25
GW Suisun	9	-2	-3	-1	-4	-4
Red Bluff Corning GW	193	-8	-12	-13	-18	-26
Redding GW	179	-2	-2	-2	-4	-6
Sutter Yuba GW	549	-8	-12	-11	-25	-50
Yolo Solano GW	471	-12	-18	-14	-27	-38

H1a3.7.9 Total Stream-Groundwater Flux

Total stream-groundwater flux represents the net flow from streams to underlying groundwater basins.

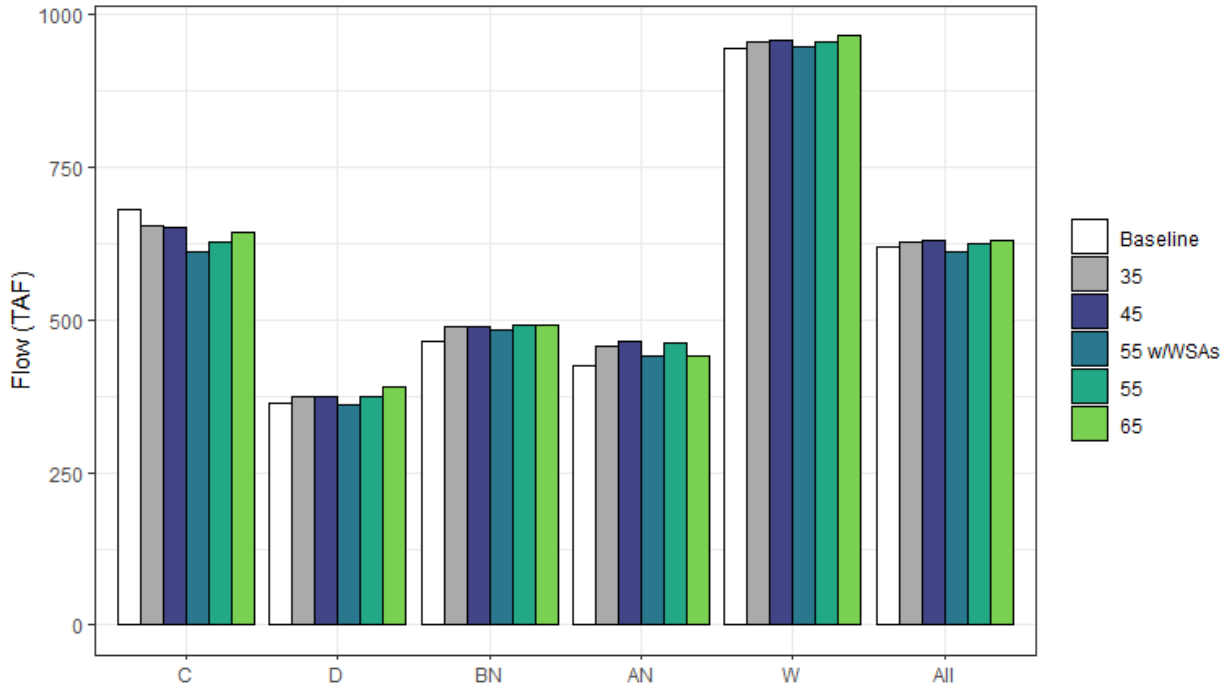

Figure H1a3-238. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

Table H1a3-472. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	680	655	652	612	628	643
D	363	375	375	362	374	392
BN	466	488	489	483	490	491
AN	426	457	464	440	462	442
W	946	954	957	946	955	966
All	618	627	629	612	624	631

H1a3.7.10 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.

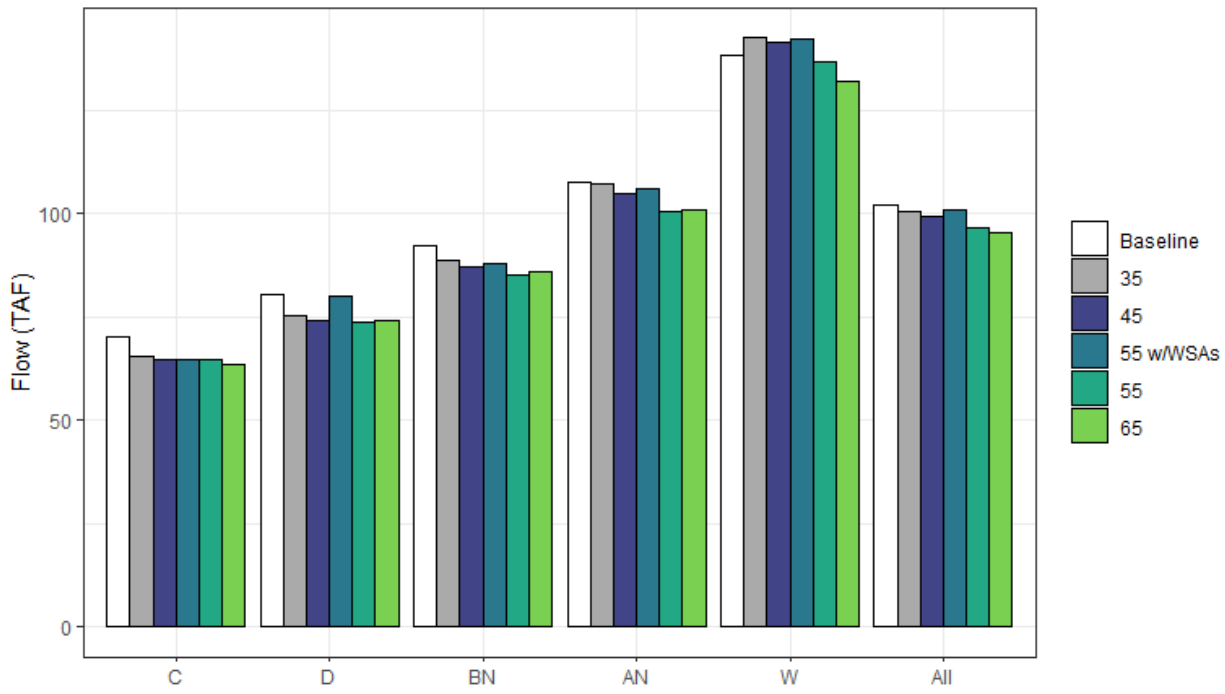

Figure H1a3-239. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

Table H1a3-473. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Delta Eastside Tributaries Region by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	70	66	65	65	65	63
D	81	75	74	80	74	74
BN	92	89	87	88	85	86
AN	108	107	105	106	101	101
W	138	143	141	142	137	132
All	102	101	99	101	97	95

H1a3.7.11 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.

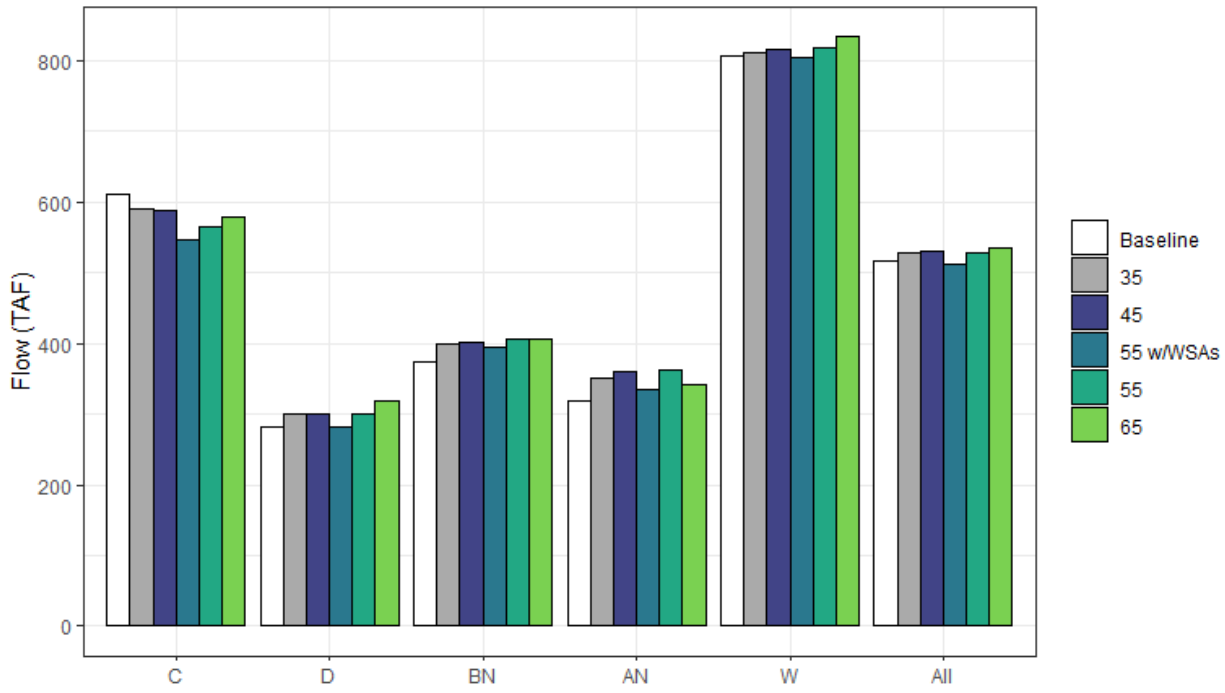

Figure H1a3-240. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

Table H1a3-474. Total Average Annual Stream-Groundwater Flux (Net Groundwater Gain) for Sacramento River Watershed by WYT and Scenario (TAF/yr).

WYT	Baseline	35	45	55 w/WSAs	55	65
C	610	589	587	547	564	579
D	282	300	301	282	301	317
BN	373	399	402	395	405	405
AN	318	350	359	334	362	341
W	807	812	816	804	819	834
All	516	527	530	511	528	536

H1a3.7.12 Stream-Groundwater Flux by Basin

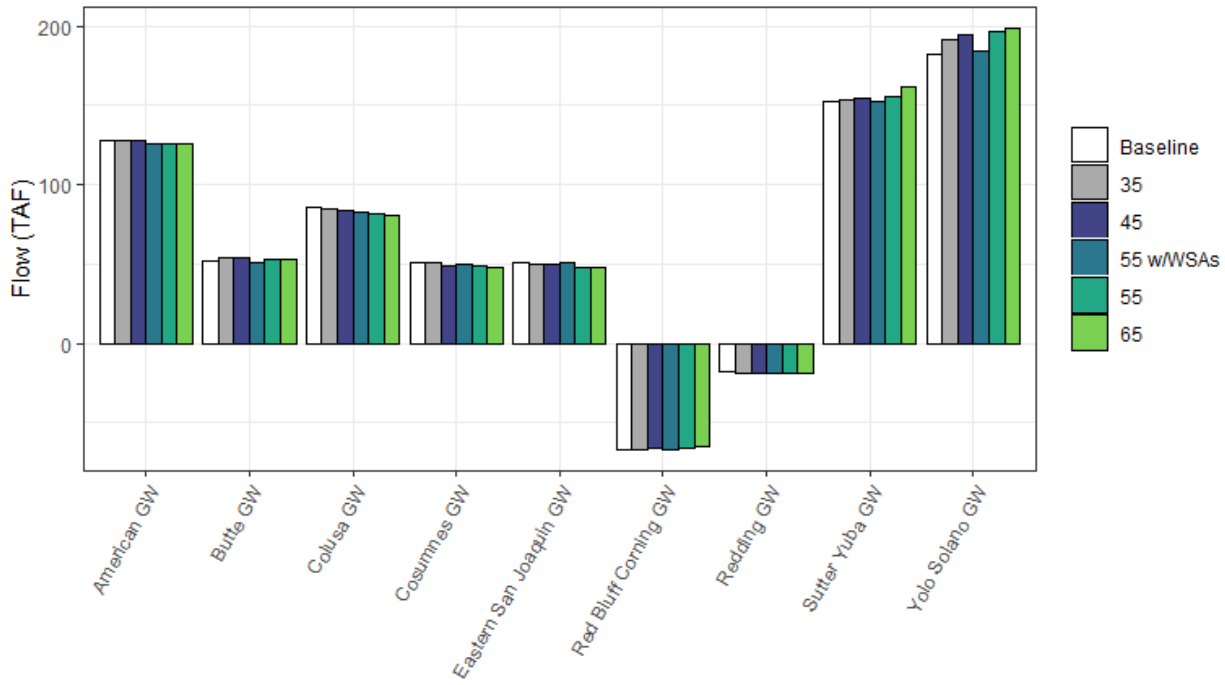

Figure H1a3-241. Stream-Groundwater Flux (Net Groundwater Gain) by Basin (TAF/yr).

Table H1a3-475. Annual Average Stream-Groundwater Flux by Basin and Change from Baseline (TAF/yr).

Basin	Baseline	35	45	55 w/WSAs	55	65
American GW	128	0	-1	-3	-2	-2
Butte GW	52	1	1	-1	0	0
Colusa GW	86	-1	-2	-3	-4	-5
Cosumnes GW	51	0	-2	-1	-3	-3
Eastern San Joaquin GW	51	-1	-1	0	-3	-3
Red Bluff Corning GW	-67	1	1	0	1	2
Redding GW	-17	-1	-1	-1	-1	-2
Sutter Yuba GW	152	1	3	0	4	9
Yolo Solano GW	182	9	12	3	15	17

H1a3.7.13 Groundwater Storage by Basin

Table H1a3-476. Annual Average Rate of Change in Storage by Basin (TAF/yr).

Basin	Baseline	35	45	55 w/WSAs	55	65
American GW	-65	-68	-74	-76	-86	-98
Butte GW	-86	-82	-84	-84	-89	-97
Colusa GW	-69	-88	-99	-95	-120	-165
Cosumnes GW	-106	-105	-109	-107	-114	-119
Eastern San Joaquin GW	-108	-120	-122	-119	-129	-135
GW Suisun	-1	-3	-4	-2	-4	-5
Red Bluff Corning GW	-361	-361	-366	-366	-372	-381
Redding GW	143	141	140	141	139	136
Sutter Yuba GW	43	37	32	32	19	-7
Yolo Solano GW	-42	-52	-57	-53	-66	-79

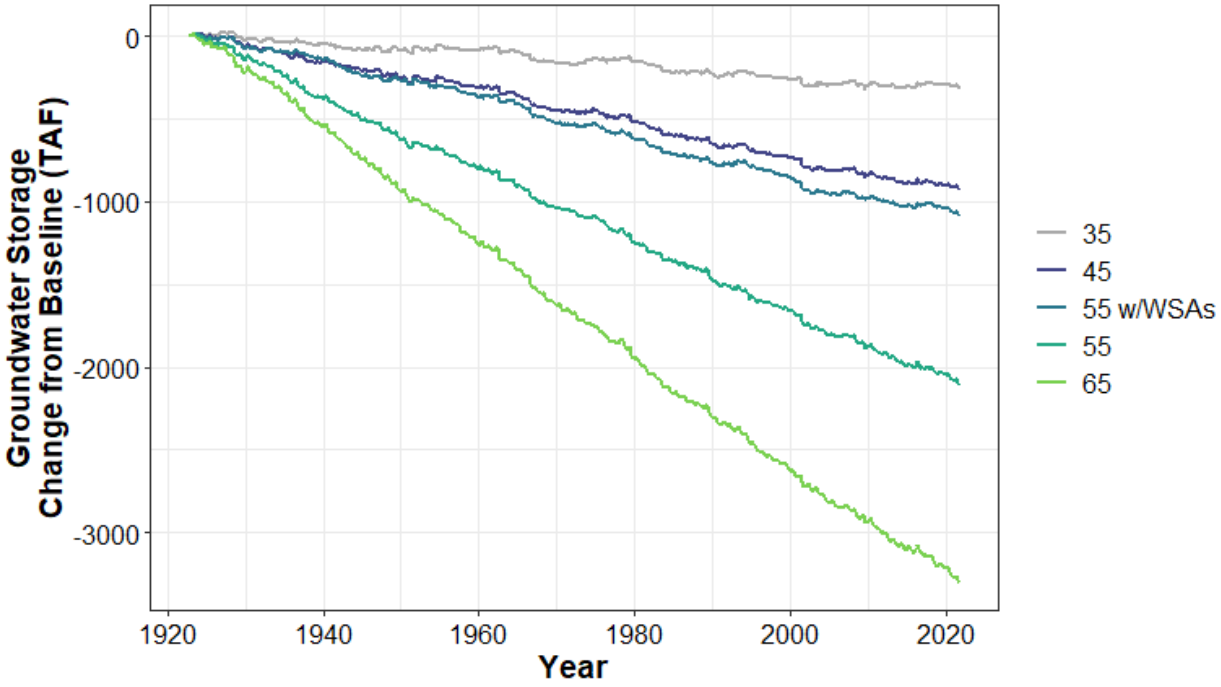

Figure H1a3-242. American River Groundwater Basin End of Year Storage—Change from Baseline (TAF)

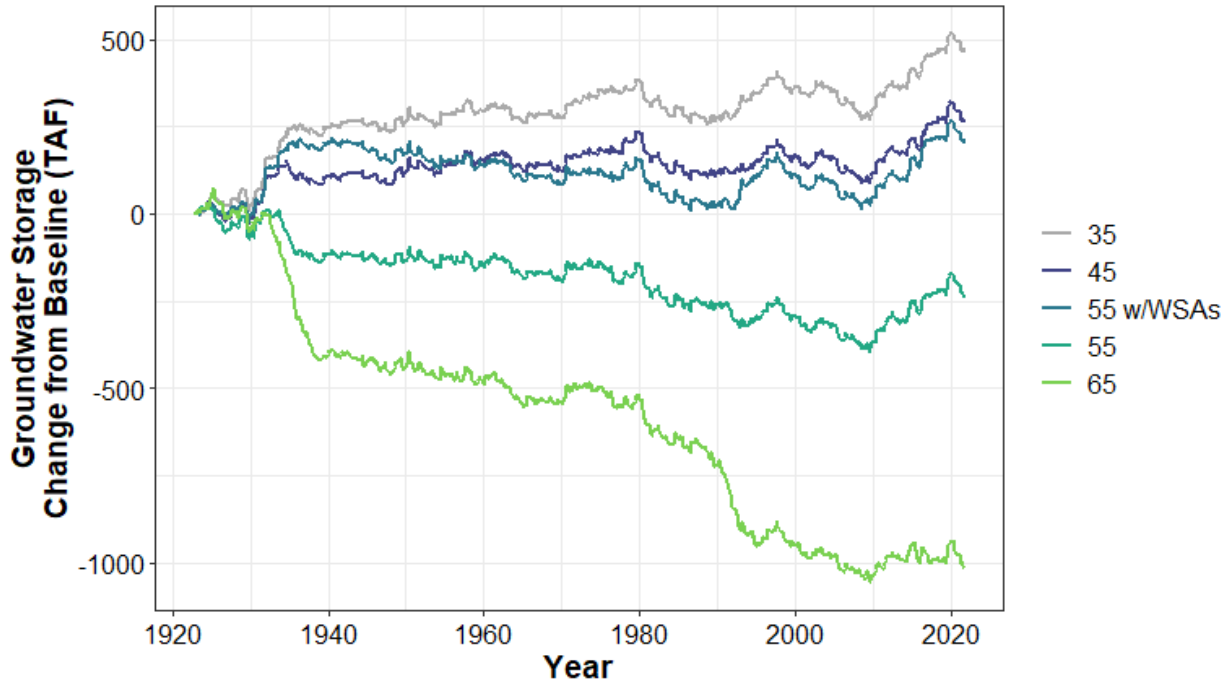

Figure H1a3-243. Butte Groundwater Basin End of Year Storage—Change from Baseline (TAF)

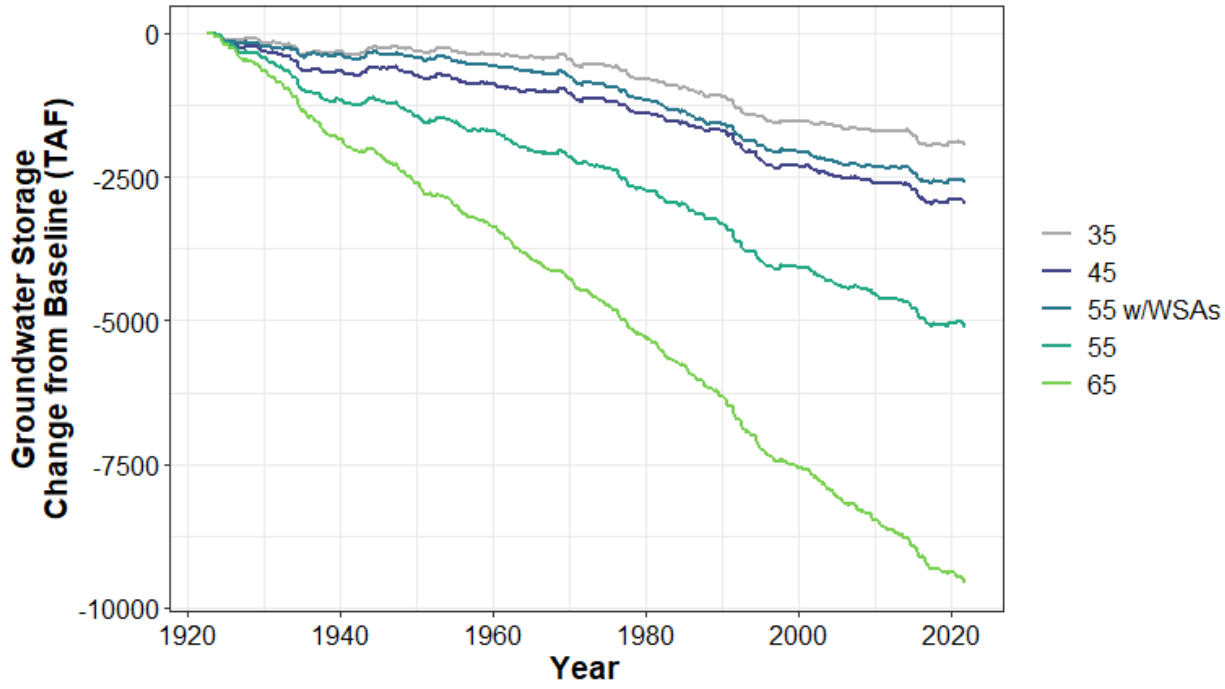

Figure H1a3-244. Colusa Groundwater Basin End of Year Storage—Change from Baseline (TAF)

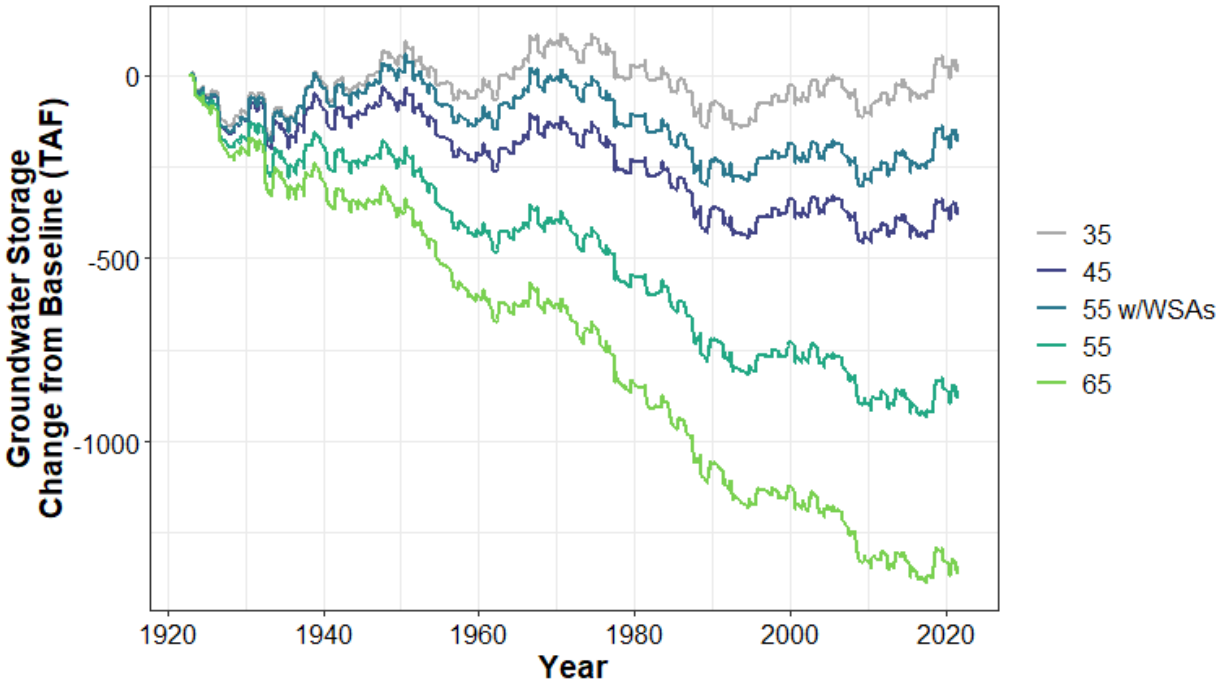

Figure H1a3-245. Cosumnes Groundwater Basin End of Year Storage—Change from Baseline (TAF)

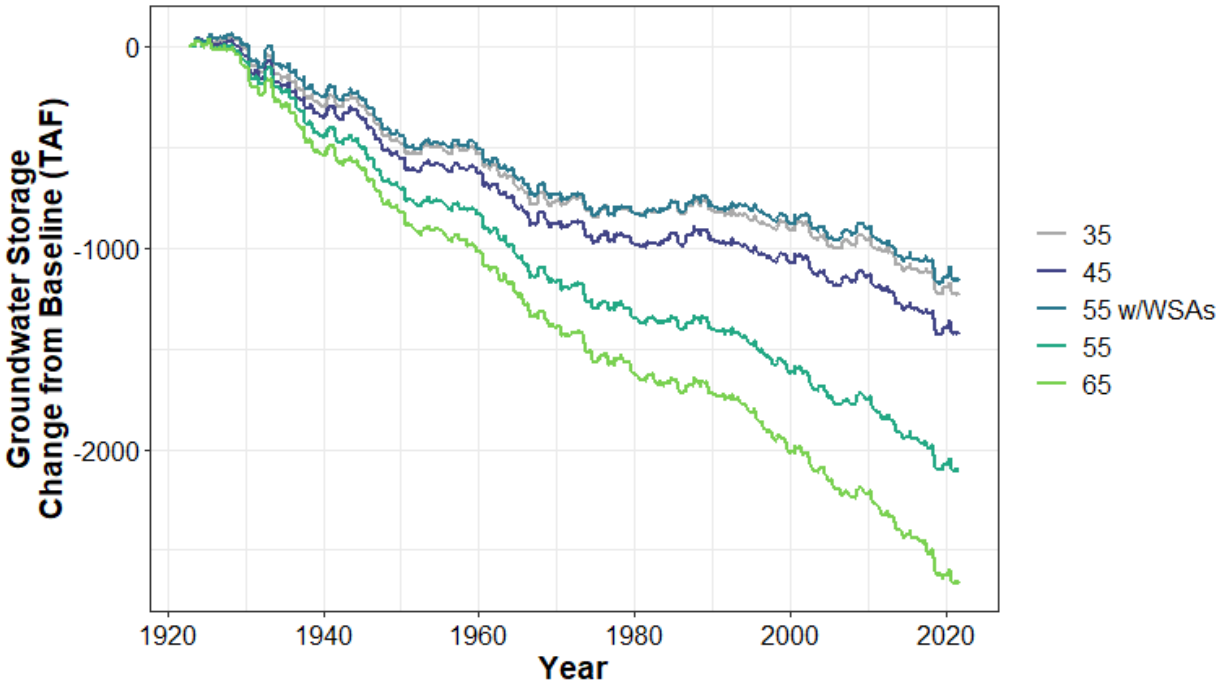

Figure H1a3-246. Eastern San Joaquin Groundwater Basin End of Year Storage—Change from Baseline (TAF)

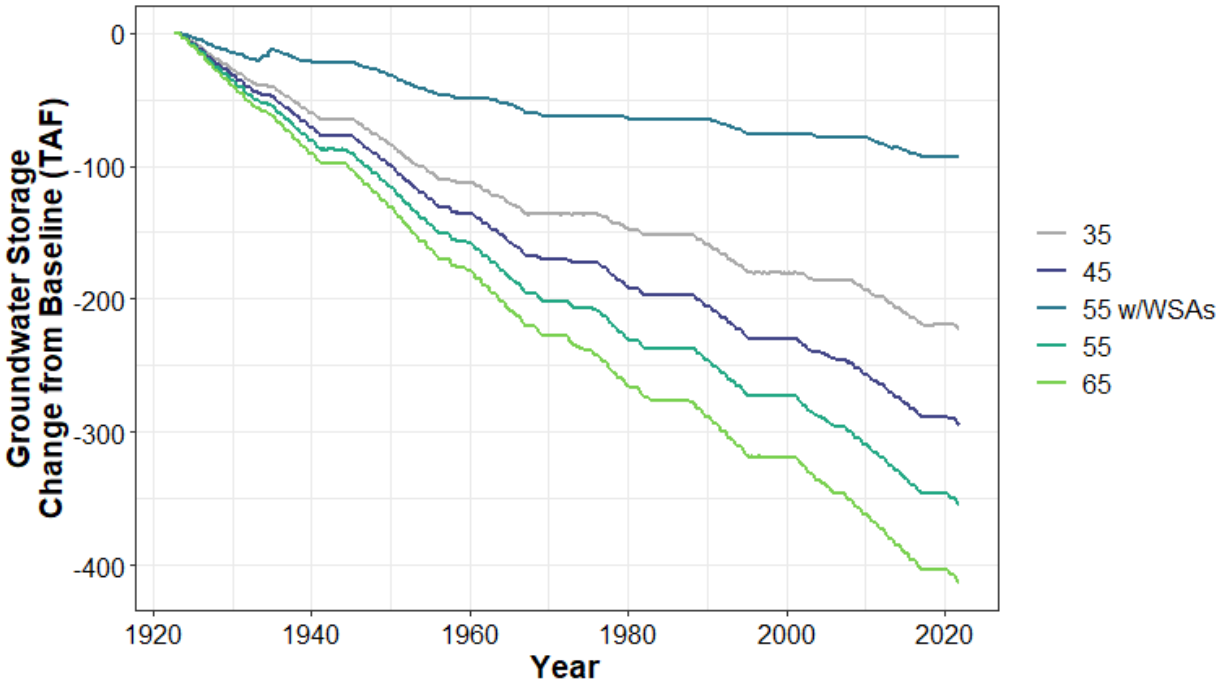

Figure H1a3-247. Suisun Groundwater Basin End of Year Storage—Change from Baseline (TAF)

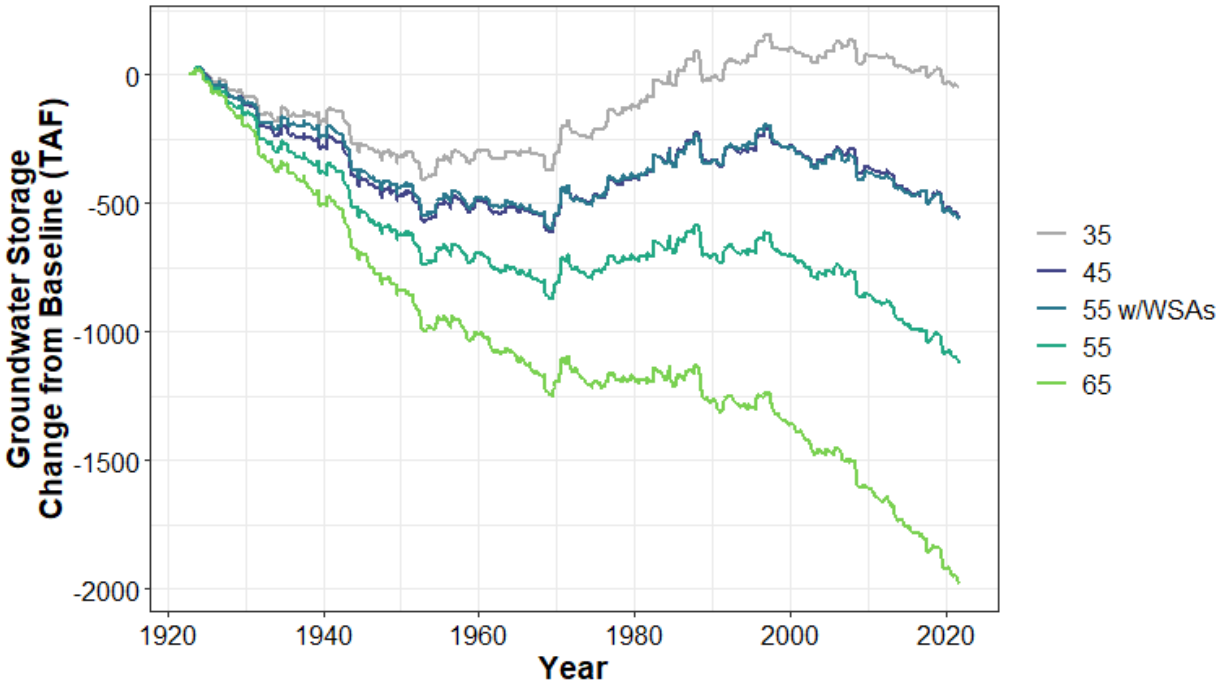

Figure H1a3-248. Red Bluff-Corning Groundwater Basin End of Year Storage—Change from Baseline (TAF)

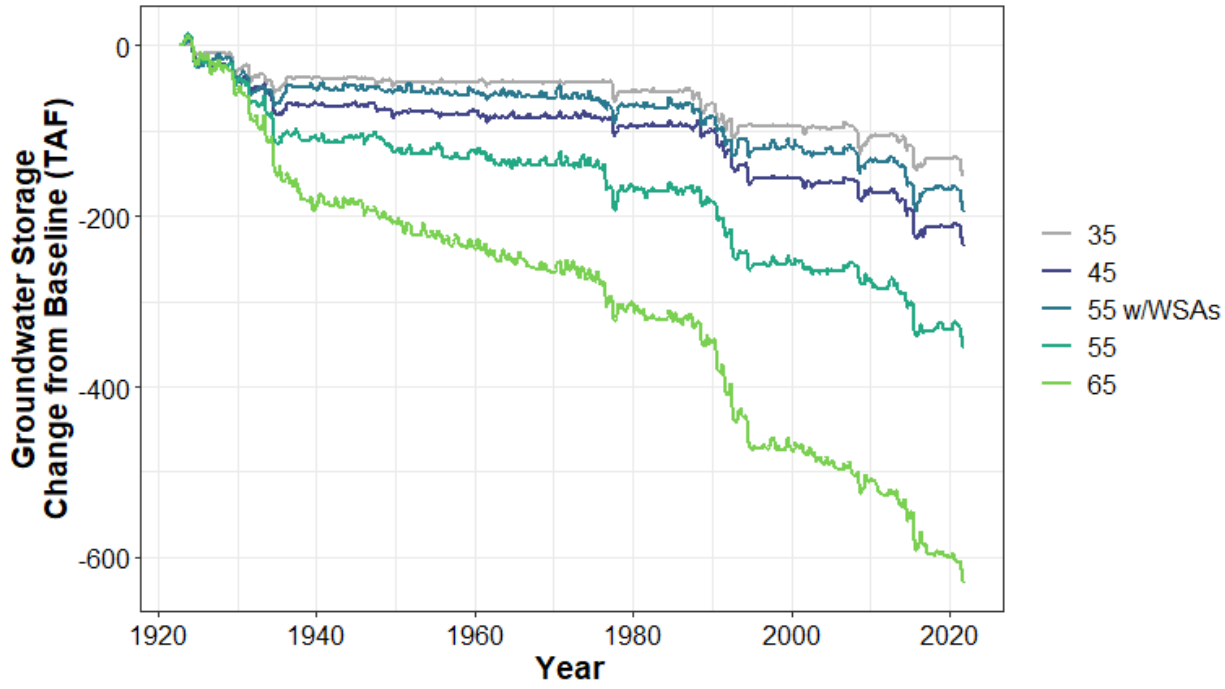

Figure H1a3-249. Redding Groundwater Basin End of Year Storage—Change from Baseline

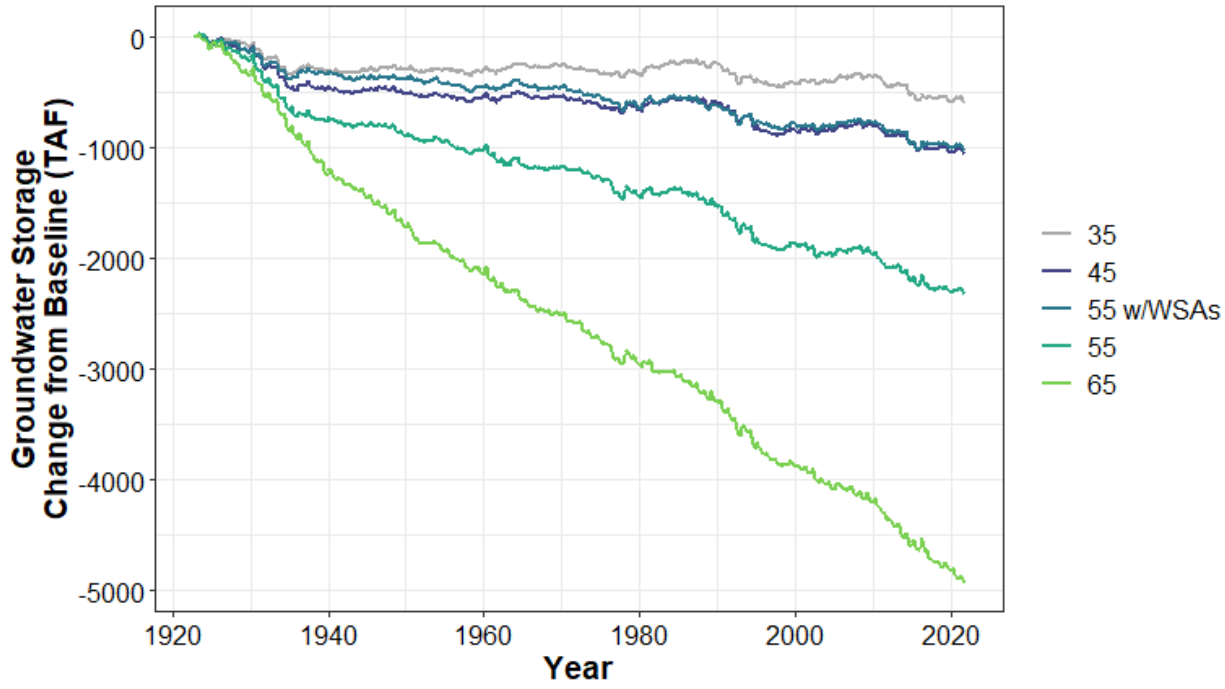

Figure H1a3-250. Sutter-Yuba Groundwater Basin End of Year Storage—Change from Baseline

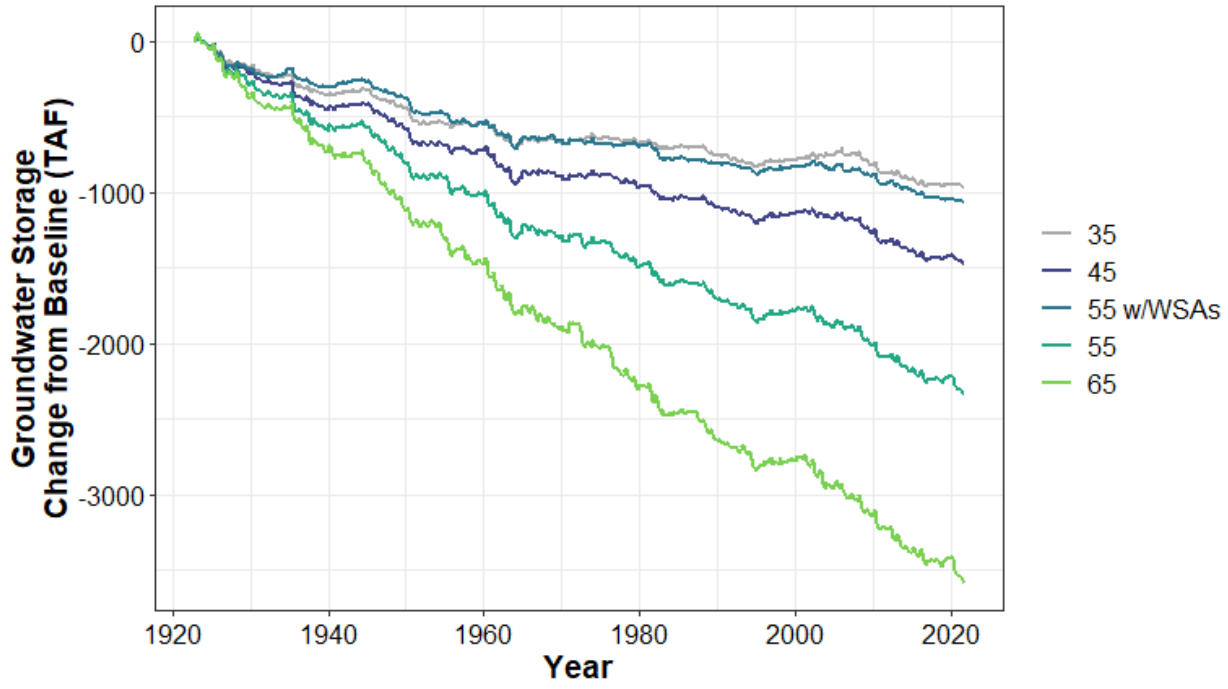

Figure H1a3-251. Yolo-Solano Groundwater Basin End of Year Storage—Change from Baseline

H1a3.8 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 H1a3-477. Number of Months (Percent of Months) with Unmet REG Instream Flow Requirements

Requirement	Baseline	35	45	55 w/WSAs	55	65
REG American River at Fair Oaks	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)
REG Bear River below Lower Bear Dam	18 (2)	18 (2)	20 (2)	18 (2)	21 (2)	25 (2)
REG Below Little Grass Valley Dam	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)
REG below SFF Tunnel	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)	14 (1)
REG Below Tiger River Regulator	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG Clear Creek below Igo	153 (13)	156 (13)	149 (13)	150 (13)	139 (12)	141 (12)
REG Cole Creek below Diversion Dam	12 (1)	12 (1)	12 (1)	12 (1)	13 (1)	16 (1)
REG D893 H St	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Downstream of Forbestown Dam	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Downstream of Lost Creek Dam	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG Hamilton Branch	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG HighFlow Channel	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
REG Kellogg Creek below Los Vaqueros	194 (16)	194 (16)	194 (16)	194 (16)	194 (16)	194 (16)
REG Little Rubicon below Diversion	22 (2)	22 (2)	22 (2)	22 (2)	22 (2)	22 (2)
REG Lodi1950 Base	10 (1)	10 (1)	11 (1)	10 (1)	10 (1)	11 (1)
REG Lodi1950 HiMayStorage	79 (7)	70 (6)	59 (5)	77 (6)	37 (3)	29 (2)
REG Lodi1950 LoMayStorageHiEOMStorage	48 (4)	83 (7)	133 (11)	62 (5)	211 (18)	268 (23)

Requirement	Baseline	35	45	55 w/WSAs	55	65
REG Lodi1950 LoMayStorageLoEOMStorage	0 (0)	0 (0)	8 (1)	0 (0)	22 (2)	40 (3)
REG Lodi22415 Base	10 (1)	10 (1)	11 (1)	10 (1)	10 (1)	11 (1)
REG Lodi22415 HiPrecipHiEOMStorage	63 (5)	72 (6)	102 (9)	70 (6)	151 (13)	197 (17)
REG Lodi22415_HiPrecipLoEOMStorage	2 (0)	2 (0)	2 (0)	2 (0)	3 (0)	5 (0)
REG Lodi22415 LoPrecipHiEOMStorage	2 (0)	1 (0)	7 (1)	2 (0)	18 (2)	33 (3)
REG LowFlowChannel	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
REG MF American below French Meadows Dam	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)
REG MF American below Interbay Dam	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Middle Yuba below Our House Dam	59 (5)	59 (5)	59 (5)	59 (5)	58 (5)	58 (5)
REG Mormon Ravine	99 (8)	99 (8)	99 (8)	99 (8)	99 (8)	99 (8)
REG NF American below Lake Valley Canal	137 (12)	137 (12)	137 (12)	137 (12)	137 (12)	137 (12)
REG NF Mokelumne below Salt Spring Dam	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)	2 (0)
REG NS Fork Long Canyon below Dam	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Rubicon below Rubicon Dam	21 (2)	21 (2)	21 (2)	21 (2)	21 (2)	21 (2)
REG Rubicon River below Hell Hole	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)
REG Silver Creek below Oyster Creek	93 (8)	93 (8)	93 (8)	93 (8)	93 (8)	93 (8)
REG Stony Creek below Black Butte	4 (0)	20 (2)	34 (3)	25 (2)	47 (4)	76 (6)
REG Stony Creek below East Park Dam	3 (0)	19 (2)	31 (3)	23 (2)	43 (4)	73 (6)
REG Stony Creek below Northside Dam	4 (0)	17 (1)	27 (2)	22 (2)	37 (3)	62 (5)
REG Stony Creek below Stony Gorge	4 (0)	15 (1)	27 (2)	21 (2)	38 (3)	66 (6)
REG Trinity River below Lewiston	3 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
REG Yuba River near Marysville	3 (0)	1 (0)	2 (0)	3 (0)	4 (0)	12 (1)
REG Yuba River near Smartville	3 (0)	2 (0)	2 (0)	3 (0)	5 (0)	20 (2)

Table H1a3-478. Number of Months (Percent of Months) with Unmet SWRCB Instream Flow Requirements

Requirement	Baseline	35	45	55 w/WSAs	55	65
SWRCB Black Butte	-	10 (1)	22 (2)	14 (1)	33 (3)	59 (5)
SWRCB Black Butte Inflow	-	0 (0)	0 (0)	0 (0)	7 (1)	23 (2)
SWRCB Cache Creek	-	0 (0)	0 (0)	0 (0)	1 (0)	4 (0)
SWRCB Clear Lake	-	31 (3)	51 (4)	52 (4)	64 (5)	81 (7)
SWRCB Cosumnes River	-	6 (1)	8 (1)	6 (1)	10 (1)	32 (3)
SWRCB Oroville	-	5 (0)	6 (1)	9 (1)	12 (1)	16 (1)
SWRCB Stony Creek	-	3 (0)	8 (1)	5 (0)	14 (1)	25 (2)
SWRCB Thomes Creek	-	0 (0)	0 (0)	0 (0)	2 (0)	13 (1)