

Table F.2.2-9-1a. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average ^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-1b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,704	4,194	16,270	28,568	40,076	30,085	16,872	10,065	7,143	9,829	9,716	8,225
20% Exceedance	4,488	3,485	9,348	16,821	22,417	21,492	12,773	7,354	6,298	9,610	9,315	6,411
30% Exceedance	4,364	3,049	5,095	9,293	15,371	15,468	8,860	5,201	5,855	9,427	8,785	4,598
40% Exceedance	3,503	2,814	4,136	6,459	10,574	11,174	5,852	4,393	5,385	9,237	8,129	3,391
50% Exceedance	2,788	2,679	3,347	5,425	7,508	7,418	4,782	3,713	5,031	8,797	6,757	2,599
60% Exceedance	2,300	2,467	2,987	4,389	5,113	5,632	3,775	3,501	4,722	7,865	3,753	2,173
70% Exceedance	2,116	2,253	2,721	3,364	4,021	4,307	3,316	3,139	4,490	5,226	2,991	1,945
80% Exceedance	1,633	1,919	2,422	2,642	3,553	3,313	2,708	2,634	4,113	4,169	2,725	1,798
90% Exceedance	1,437	1,717	1,990	2,265	2,874	2,380	2,095	2,021	3,226	3,671	2,496	1,654
Full Simulation Period Average ^a	3,123	3,340	7,124	11,143	14,842	13,351	7,958	5,051	5,304	7,448	6,073	3,929
Wet Water Years (28%)	4,423	4,504	8,526	25,092	34,012	28,801	16,262	8,293	6,095	8,637	8,113	6,483
Above Normal Water Years (14%)	4,030	3,673	6,089	12,665	15,075	16,394	8,292	5,841	5,501	9,400	9,377	6,426
Below Normal Water Years (18%)	2,767	2,795	7,927	5,864	7,024	7,370	5,135	4,294	5,603	8,845	6,581	2,634
Dry Water Years (24%)	2,286	3,064	8,193	3,708	5,890	5,047	3,867	3,444	5,436	6,476	3,773	1,960
Critical Water Years (16%)	1,557	1,929	2,866	2,488	3,314	2,839	2,444	1,946	3,213	3,544	2,492	1,689

Table F.2.2-9-1c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-38	-60	791	1,615	-189	238	-1	-1	-165	-114	-12	-108
20% Exceedance	-48	-25	-154	1,007	-140	-961	-1	32	-79	-25	33	57
30% Exceedance	-19	-63	-333	-8	218	-186	22	-92	-73	-128	-30	225
40% Exceedance	-327	-34	-78	-3	0	-27	-1	-173	-27	-80	37	78
50% Exceedance	-51	-18	-44	-29	-91	-1	37	-186	167	-204	246	-49
60% Exceedance	-41	-48	2	95	35	0	35	-9	87	-662	-510	-5
70% Exceedance	-33	-63	-21	150	-1	29	2	-134	82	-764	-375	23
80% Exceedance	-50	12	-4	27	44	27	307	-128	369	-2	-69	15
90% Exceedance	-19	46	-8	39	26	22	666	248	347	413	17	22
Full Simulation Period Average ^a	-59	-30	25	78	36	-18	124	-44	89	-93	-113	97
Wet Water Years (28%)	-44	-68	-170	78	51	4	0	44	178	-90	-94	119
Above Normal Water Years (14%)	-39	16	-17	315	77	-540	-51	5	-38	-153	-25	562
Below Normal Water Years (18%)	-59	-8	94	-13	-35	116	13	-537	85	70	-65	-172
Dry Water Years (24%)	-1	-11	243	-8	-14	-7	-7	5	-180	-516	-376	-7
Critical Water Years (16%)	-203	-61	0	106	131	233	817	239	456	407	117	107

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-2a. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average ^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-2b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,677	4,194	15,155	28,341	40,055	29,902	16,871	10,065	7,109	9,937	9,711	8,566
20% Exceedance	4,486	3,473	9,347	15,675	22,273	21,491	12,773	7,356	6,369	9,642	9,314	6,309
30% Exceedance	4,385	3,192	5,071	9,223	15,151	15,164	8,848	5,148	5,835	9,460	8,655	4,988
40% Exceedance	3,768	2,853	4,135	6,459	10,575	11,216	5,846	4,394	5,304	9,237	8,153	3,843
50% Exceedance	2,844	2,727	3,313	5,425	7,510	7,418	4,711	3,780	4,922	8,834	6,531	2,521
60% Exceedance	2,326	2,583	2,974	4,272	5,106	5,562	3,671	3,458	4,694	7,627	5,435	2,142
70% Exceedance	2,070	2,351	2,718	3,338	4,021	4,306	3,161	2,986	4,525	6,037	3,925	1,953
80% Exceedance	1,648	2,025	2,402	2,643	3,547	3,313	2,700	2,612	3,911	4,954	3,276	1,819
90% Exceedance	1,436	1,668	2,006	2,265	2,846	2,379	2,149	2,051	3,190	3,771	2,746	1,711
Full Simulation Period Average ^a	3,142	3,378	7,033	11,061	14,768	13,290	7,918	5,025	5,267	7,577	6,346	4,020
Wet Water Years (28%)	4,442	4,559	8,418	24,802	33,918	28,794	16,261	8,267	6,105	8,673	8,115	6,591
Above Normal Water Years (14%)	4,023	3,657	6,089	12,691	15,047	16,047	8,199	5,835	5,448	9,468	9,372	6,690
Below Normal Water Years (18%)	2,907	2,839	7,810	5,842	6,853	7,313	5,070	4,260	5,599	8,736	7,176	2,716
Dry Water Years (24%)	2,283	3,081	8,024	3,695	5,907	5,049	3,824	3,402	5,310	6,710	4,369	1,938
Critical Water Years (16%)	1,490	2,016	2,875	2,506	3,209	2,830	2,417	1,936	3,206	4,003	2,633	1,775

Table F.2.2-9-2c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-65	-59	-324	1,388	-209	55	-2	-2	-199	-6	-17	233
20% Exceedance	-50	-36	-154	-140	-284	-962	-1	34	-9	7	33	-45
30% Exceedance	1	79	-356	-77	-2	-490	9	-146	-94	-95	-159	615
40% Exceedance	-62	5	-78	-4	0	15	-6	-172	-108	-80	61	530
50% Exceedance	4	30	-77	-29	-89	-1	-33	-119	58	-167	20	-128
60% Exceedance	-15	67	-11	-22	28	-69	-69	-52	59	-901	1,172	-36
70% Exceedance	-80	36	-24	124	-1	27	-153	-287	116	47	559	31
80% Exceedance	-34	118	-25	28	38	26	300	-150	166	783	482	36
90% Exceedance	-21	-3	8	39	-2	21	720	278	311	512	267	80
Full Simulation Period Average ^a	-40	8	-65	-3	-38	-80	84	-70	53	37	160	187
Wet Water Years (28%)	-24	-12	-278	-213	-43	-3	-1	18	187	-54	-92	228
Above Normal Water Years (14%)	-46	-1	-17	342	49	-887	-144	-1	-91	-85	-30	826
Below Normal Water Years (18%)	82	36	-23	-35	-206	58	-53	-572	81	-39	531	-90
Dry Water Years (24%)	-4	7	74	-22	2	-4	-49	-37	-306	-281	220	-29
Critical Water Years (16%)	-270	26	10	125	26	224	789	229	448	866	258	193

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-3a. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average ^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-3b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,725	4,194	14,721	28,160	40,067	29,604	16,837	10,062	7,016	9,958	9,687	8,514
20% Exceedance	4,506	3,510	9,356	15,764	22,274	21,491	14,095	7,597	6,306	9,735	9,321	6,631
30% Exceedance	4,395	3,231	5,081	9,285	15,412	15,165	9,897	5,880	5,760	9,546	8,657	4,882
40% Exceedance	3,764	2,837	4,162	6,453	10,552	10,919	6,667	5,040	5,238	9,302	8,064	3,987
50% Exceedance	2,884	2,731	3,344	5,422	7,508	7,418	5,841	4,376	4,875	8,782	6,746	2,643
60% Exceedance	2,499	2,605	2,969	4,241	5,100	5,562	4,982	3,810	4,680	8,097	5,399	2,240
70% Exceedance	2,205	2,369	2,761	3,307	4,021	4,306	4,037	3,293	4,519	6,044	3,920	2,018
80% Exceedance	1,692	1,999	2,408	2,642	3,496	3,312	3,335	2,995	3,816	4,937	3,334	1,890
90% Exceedance	1,458	1,703	2,021	2,261	2,845	2,379	2,651	2,047	3,033	3,870	2,751	1,763
Full Simulation Period Average ^a	3,185	3,393	7,052	11,099	14,776	13,184	8,637	5,418	5,229	7,610	6,397	4,060
Wet Water Years (28%)	4,446	4,558	8,412	24,882	33,937	28,551	16,380	8,329	6,103	8,679	8,136	6,556
Above Normal Water Years (14%)	4,059	3,705	6,115	12,842	15,094	15,865	9,240	6,715	5,440	9,556	9,381	6,735
Below Normal Water Years (18%)	2,940	2,892	7,773	5,855	6,885	7,258	6,574	4,969	5,472	8,765	7,320	2,892
Dry Water Years (24%)	2,377	3,074	8,117	3,701	5,869	5,040	4,916	3,902	5,280	6,752	4,449	2,025
Critical Water Years (16%)	1,545	2,014	2,879	2,452	3,202	2,826	2,462	1,968	3,168	4,022	2,625	1,715

Table F.2.2-9-3c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPAILVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-17	-59	-758	1,207	-198	-243	-36	-4	-292	15	-41	181
20% Exceedance	-30	1	-145	-50	-282	-961	1,321	274	-72	101	40	277
30% Exceedance	12	119	-346	-15	259	-488	1,058	586	-169	-9	-157	509
40% Exceedance	-66	-11	-52	-10	-22	-283	814	475	-174	-14	-28	674
50% Exceedance	45	34	-46	-32	-91	-1	1,096	477	11	-219	235	-5
60% Exceedance	158	90	-16	-53	21	-70	1,242	300	44	-430	1,137	62
70% Exceedance	56	54	19	93	-1	27	722	20	110	54	554	96
80% Exceedance	9	92	-18	27	-13	26	934	233	71	767	540	108
90% Exceedance	1	32	23	35	-3	21	1,222	274	154	612	273	132
Full Simulation Period Average ^a	3	23	-47	35	-30	-186	804	323	15	69	211	227
Wet Water Years (28%)	-20	-13	-284	-133	-24	-245	118	80	185	-48	-70	192
Above Normal Water Years (14%)	-10	48	9	492	96	-1,069	897	879	-99	3	-22	871
Below Normal Water Years (18%)	114	90	-60	-23	-173	4	1,451	138	-46	-10	675	87
Dry Water Years (24%)	90	-1	167	-15	-36	-13	1,043	463	-336	-239	300	58
Critical Water Years (16%)	-215	24	14	70	20	219	834	260	411	884	250	133

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-4a. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average ^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-4b. Feather River at Sacramento River Confluence Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,706	4,194	16,261	28,542	40,062	29,802	16,872	10,067	7,147	9,827	9,716	8,221
20% Exceedance	4,487	3,485	9,348	16,826	22,985	21,491	13,294	7,356	6,364	9,608	9,305	6,405
30% Exceedance	4,385	3,066	5,099	9,243	15,373	15,662	8,841	5,345	5,859	9,426	8,788	4,646
40% Exceedance	3,416	2,814	4,137	6,460	10,575	11,248	5,852	4,382	5,328	9,235	8,117	3,432
50% Exceedance	2,922	2,684	3,347	5,425	7,509	7,419	4,781	3,712	4,999	8,795	6,763	2,630
60% Exceedance	2,326	2,481	2,984	4,389	5,077	5,632	3,779	3,500	4,709	7,851	4,095	2,180
70% Exceedance	2,089	2,256	2,704	3,442	4,021	4,271	3,316	3,139	4,428	5,421	3,049	1,926
80% Exceedance	1,626	1,919	2,421	2,669	3,496	3,286	2,529	2,639	3,891	4,082	2,713	1,787
90% Exceedance	1,427	1,719	2,010	2,350	2,846	2,356	1,546	1,854	2,874	3,333	2,455	1,632
Full Simulation Period Average ^a	3,125	3,353	7,129	11,179	14,851	13,353	7,877	5,032	5,219	7,373	6,148	3,933
Wet Water Years (28%)	4,423	4,504	8,525	25,135	34,054	28,804	16,263	8,293	6,100	8,633	8,119	6,484
Above Normal Water Years (14%)	4,032	3,673	6,095	12,648	15,074	16,655	8,317	5,843	5,488	9,397	9,377	6,448
Below Normal Water Years (18%)	2,828	2,828	7,955	5,867	7,132	7,387	5,215	4,324	5,525	8,842	7,033	2,734
Dry Water Years (24%)	2,283	3,085	8,197	3,708	5,889	5,041	3,869	3,447	5,448	6,550	3,814	1,963
Critical Water Years (16%)	1,501	1,942	2,859	2,655	3,176	2,604	1,822	1,791	2,754	2,977	2,378	1,570

Table F.2.2-9-4c. Feather River at Sacramento River Confluence Flow, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-36	-59	782	1,589	-203	-45	-1	0	-161	-116	-12	-111
20% Exceedance	-49	-25	-153	1,011	428	-961	520	34	-14	-26	24	51
30% Exceedance	1	-46	-329	-57	220	8	2	51	-70	-128	-26	273
40% Exceedance	-414	-34	-77	-3	0	47	-1	-183	-84	-82	25	119
50% Exceedance	83	-13	-44	-28	-90	0	36	-187	135	-207	253	-19
60% Exceedance	-14	-34	-1	95	-1	0	39	-10	73	-676	-168	2
70% Exceedance	-61	-60	-38	228	-2	-7	2	-135	20	-569	-317	4
80% Exceedance	-57	12	-5	54	-13	-1	128	-123	146	-89	-81	4
90% Exceedance	-30	48	13	124	-2	-1	117	81	-4	74	-24	1
Full Simulation Period Average ^a	-57	-17	31	115	45	-16	43	-63	5	-168	-38	100
Wet Water Years (28%)	-44	-68	-171	120	92	8	1	44	182	-94	-87	121
Above Normal Water Years (14%)	-36	16	-11	298	76	-280	-26	7	-51	-156	-26	585
Below Normal Water Years (18%)	2	25	122	-10	74	133	92	-508	7	67	387	-72
Dry Water Years (24%)	-4	10	247	-8	-15	-12	-5	8	-168	-441	-335	-4
Critical Water Years (16%)	-259	-47	-6	273	-7	-2	195	83	-3	-160	3	-12

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-5a. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-5b. Feather River at Sacramento River Confluence Flow, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,671	4,004	34,353	36,387	40,810	32,908	19,055	10,264	5,341	3,293	2,665	2,379
20% Exceedance	2,426	3,247	20,817	25,067	28,525	24,442	13,685	7,300	4,179	2,812	2,454	2,063
30% Exceedance	2,312	2,654	12,695	14,088	22,060	19,711	9,947	4,227	2,854	2,633	2,313	1,911
40% Exceedance	2,270	2,579	8,468	10,356	17,791	15,183	6,458	3,596	2,580	2,449	1,934	1,819
50% Exceedance	2,244	2,452	6,360	8,336	12,095	11,805	4,431	3,384	2,504	2,333	1,776	1,700
60% Exceedance	2,207	2,297	3,673	5,477	7,415	9,688	3,387	2,761	2,368	2,138	1,612	1,594
70% Exceedance	1,754	2,073	2,763	3,448	4,223	6,149	2,700	2,190	2,005	1,958	1,522	1,539
80% Exceedance	1,592	1,777	2,412	2,828	3,705	4,044	2,145	1,696	1,746	1,777	1,392	1,491
90% Exceedance	1,426	1,521	1,952	2,282	2,906	2,578	1,435	1,427	1,443	1,674	1,316	1,369
Full Simulation Period Average^a	2,274	3,295	12,447	14,034	17,887	15,727	8,055	4,586	3,191	2,375	1,910	1,786
Wet Water Years (28%)	2,487	4,182	15,608	30,556	36,529	29,005	16,346	8,185	5,047	2,186	2,129	2,143
Above Normal Water Years (14%)	2,384	3,737	11,432	17,309	21,127	21,237	8,778	5,520	3,356	1,983	1,923	1,921
Below Normal Water Years (18%)	2,286	2,792	14,679	8,459	11,108	11,284	6,019	3,781	2,707	2,092	1,605	1,722
Dry Water Years (24%)	2,501	3,438	13,478	4,597	9,043	8,914	3,787	2,401	2,018	2,825	1,714	1,619
Critical Water Years (16%)	1,392	1,574	3,235	2,685	3,323	2,884	1,604	1,654	2,103	2,694	2,150	1,369

Table F.2.2-9-5c. Feather River at Sacramento River Confluence Flow, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2,071	-249	18,874	9,434	545	3,061	2,182	197	-1,966	-6,650	-7,063	-5,953
20% Exceedance	-2,110	-262	11,316	9,252	5,968	1,990	911	-22	-2,199	-6,823	-6,827	-4,291
30% Exceedance	-2,071	-458	7,268	4,788	6,907	4,058	1,108	-1,067	-3,075	-6,921	-6,501	-2,462
40% Exceedance	-1,560	-269	4,254	3,893	7,217	3,982	606	-969	-2,832	-6,868	-6,158	-1,493
50% Exceedance	-595	-246	2,969	2,882	4,496	4,386	-313	-514	-2,360	-6,669	-4,735	-949
60% Exceedance	-134	-218	688	1,183	2,337	4,056	-353	-749	-2,267	-6,389	-2,651	-584
70% Exceedance	-396	-242	21	234	201	1,871	-615	-1,083	-2,404	-4,032	-1,844	-382
80% Exceedance	-90	-130	-14	213	196	758	-256	-1,066	-1,999	-2,394	-1,402	-291
90% Exceedance	-30	-150	-45	55	58	220	6	-346	-1,436	-1,584	-1,163	-262
Full Simulation Period Average^a	-908	-74	5,349	2,970	3,081	2,357	221	-509	-2,023	-5,165	-4,277	-2,046
Wet Water Years (28%)	-1,979	-390	6,912	5,541	2,567	209	84	-65	-870	-6,541	-6,077	-4,220
Above Normal Water Years (14%)	-1,685	79	5,326	4,959	6,129	4,303	435	-316	-2,183	-7,570	-7,480	-3,943
Below Normal Water Years (18%)	-540	-11	6,846	2,581	4,050	4,030	896	-1,051	-2,811	-6,683	-5,040	-1,083
Dry Water Years (24%)	214	363	5,528	881	3,138	3,861	-87	-1,038	-3,597	-4,166	-2,436	-348
Critical Water Years (16%)	-368	-416	370	304	141	277	-23	-54	-654	-443	-225	-213

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-6a. Feather River at Sacramento River Confluence Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,142	7,619	26,723	36,086	39,202	33,787	26,522	14,889	6,481	1,361	2,170	2,894
20% Exceedance	2,612	4,745	17,580	25,563	28,348	27,078	20,315	10,472	4,631	1,072	1,673	2,499
30% Exceedance	2,218	2,948	8,904	14,888	23,059	20,912	14,615	7,085	3,701	846	1,212	2,012
40% Exceedance	1,905	2,359	6,713	11,443	19,074	15,759	12,359	4,978	2,929	789	810	1,689
50% Exceedance	1,593	2,021	4,444	8,760	13,247	13,627	9,523	4,083	2,083	747	681	1,486
60% Exceedance	1,344	1,609	3,658	6,402	8,972	9,973	7,169	3,255	1,491	683	585	1,312
70% Exceedance	1,028	1,316	2,547	4,137	7,455	8,529	5,425	2,503	1,051	549	463	1,099
80% Exceedance	811	829	1,760	2,603	5,440	6,206	3,991	1,510	646	379	362	1,003
90% Exceedance	624	684	1,286	1,947	4,142	4,463	2,953	894	393	253	244	742
Full Simulation Period Average ^a	1,996	3,592	10,120	14,282	18,792	17,019	12,166	6,130	2,961	863	976	1,706
Wet Water Years (28%)	2,464	4,599	10,466	30,092	36,643	29,824	21,997	11,416	5,458	1,372	1,566	2,559
Above Normal Water Years (14%)	2,075	3,922	8,845	18,907	22,111	22,351	14,109	7,602	3,503	816	1,135	2,010
Below Normal Water Years (18%)	1,736	2,940	12,494	8,871	11,571	12,664	10,317	4,737	2,752	748	651	1,515
Dry Water Years (24%)	2,397	4,342	12,025	4,879	10,620	10,189	7,086	3,265	1,466	551	572	1,284
Critical Water Years (16%)	713	966	4,848	2,761	5,033	5,092	2,963	1,453	596	609	775	798

Table F.2.2-9-6b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,704	4,194	16,270	28,568	40,076	30,085	16,872	10,065	7,143	9,829	9,716	8,225
20% Exceedance	4,488	3,485	9,348	16,821	22,417	21,492	12,773	7,354	6,298	9,610	9,315	6,411
30% Exceedance	4,364	3,049	5,095	9,293	15,371	15,468	8,860	5,201	5,855	9,427	8,785	4,598
40% Exceedance	3,503	2,814	4,136	6,459	10,574	11,174	5,852	4,393	5,385	9,237	8,129	3,391
50% Exceedance	2,788	2,679	3,347	5,425	7,508	7,418	4,782	3,713	5,031	8,797	6,757	2,599
60% Exceedance	2,300	2,467	2,987	4,389	5,113	5,632	3,775	3,501	4,722	7,865	3,753	2,173
70% Exceedance	2,116	2,253	2,721	3,364	4,021	4,307	3,316	3,139	4,490	5,226	2,991	1,945
80% Exceedance	1,633	1,919	2,422	2,642	3,553	3,313	2,708	2,634	4,113	4,169	2,725	1,798
90% Exceedance	1,437	1,717	1,990	2,265	2,874	2,380	2,095	2,021	3,226	3,671	2,496	1,654
Full Simulation Period Average ^a	3,123	3,340	7,124	11,143	14,842	13,351	7,958	5,051	5,304	7,448	6,073	3,929
Wet Water Years (28%)	4,423	4,504	8,526	25,092	34,012	28,801	16,262	8,293	6,095	8,637	8,113	6,483
Above Normal Water Years (14%)	4,030	3,673	6,089	12,665	15,075	16,394	8,292	5,841	5,501	9,400	9,377	6,426
Below Normal Water Years (18%)	2,767	2,795	7,927	5,864	7,024	7,370	5,135	4,294	5,603	8,845	6,581	2,634
Dry Water Years (24%)	2,286	3,064	8,193	3,708	5,890	5,047	3,867	3,444	5,436	6,476	3,773	1,960
Critical Water Years (16%)	1,557	1,929	2,866	2,488	3,314	2,839	2,444	1,946	3,213	3,544	2,492	1,689

Table F.2.2-9-6c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,563	-3,425	-10,453	-7,518	874	-3,702	-9,650	-4,824	662	8,468	7,547	5,330
20% Exceedance	1,876	-1,260	-8,232	-8,742	-5,931	-5,587	-7,542	-3,118	1,668	8,538	7,642	3,911
30% Exceedance	2,147	101	-3,809	-5,595	-7,688	-5,444	-5,755	-1,884	2,154	8,580	7,572	2,586
40% Exceedance	1,598	455	-2,578	-4,983	-8,499	-4,586	-6,507	-586	2,456	8,448	7,319	1,701
50% Exceedance	1,196	658	-1,097	-3,335	-5,739	-6,208	-4,741	-370	2,948	8,050	6,075	1,114
60% Exceedance	957	858	-671	-2,013	-3,858	-4,341	-3,394	245	3,231	7,183	3,167	861
70% Exceedance	1,088	936	173	-773	-3,434	-4,221	-2,108	636	3,440	4,677	2,528	845
80% Exceedance	821	1,090	662	39	-1,887	-2,893	-1,283	1,124	3,467	3,789	2,363	795
90% Exceedance	814	1,033	703	318	-1,268	-2,084	-858	1,127	2,833	3,418	2,252	912
Full Simulation Period Average ^a	1,127	-253	-2,996	-3,139	-3,950	-3,668	-4,209	-1,079	2,343	6,585	5,097	2,223
Wet Water Years (28%)	1,959	-95	-1,940	-4,999	-2,631	-1,023	-5,735	-3,123	638	7,265	6,546	3,924
Above Normal Water Years (14%)	1,955	-249	-2,756	-6,242	-7,036	-5,958	-5,817	-1,760	1,998	8,584	8,242	4,416
Below Normal Water Years (18%)	1,031	-145	-4,567	-3,007	-4,547	-5,294	-5,182	-443	2,850	8,097	5,929	1,119
Dry Water Years (24%)	-111	-1,278	-3,832	-1,170	-4,729	-5,142	-3,219	179	3,970	5,925	3,201	675
Critical Water Years (16%)	843	962	-1,982	-273	-1,719	-2,253	-519	493	2,618	2,935	1,717	891

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-7a. Feather River at Sacramento River Confluence Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,142	7,619	26,723	36,086	39,202	33,787	26,522	14,889	6,481	1,361	2,170	2,894
20% Exceedance	2,612	4,745	17,580	25,563	28,348	27,078	20,315	10,472	4,631	1,072	1,673	2,499
30% Exceedance	2,218	2,948	8,904	14,888	23,059	20,912	14,615	7,085	3,701	846	1,212	2,012
40% Exceedance	1,905	2,359	6,713	11,443	19,074	15,759	12,359	4,978	2,929	789	810	1,689
50% Exceedance	1,593	2,021	4,444	8,760	13,247	13,627	9,523	4,083	2,083	747	681	1,486
60% Exceedance	1,344	1,609	3,658	6,402	8,972	9,973	7,169	3,255	1,491	683	585	1,312
70% Exceedance	1,028	1,316	2,547	4,137	7,455	8,529	5,425	2,503	1,051	549	463	1,099
80% Exceedance	811	829	1,760	2,603	5,440	6,206	3,991	1,510	646	379	362	1,003
90% Exceedance	624	684	1,286	1,947	4,142	4,463	2,953	894	393	253	244	742
Full Simulation Period Average ^a	1,996	3,592	10,120	14,282	18,792	17,019	12,166	6,130	2,961	863	976	1,706
Wet Water Years (28%)	2,464	4,599	10,466	30,092	36,643	29,824	21,997	11,416	5,458	1,372	1,566	2,559
Above Normal Water Years (14%)	2,075	3,922	8,845	18,907	22,111	22,351	14,109	7,602	3,503	816	1,135	2,010
Below Normal Water Years (18%)	1,736	2,940	12,494	8,871	11,571	12,664	10,317	4,737	2,752	748	651	1,515
Dry Water Years (24%)	2,397	4,342	12,025	4,879	10,620	10,189	7,086	3,265	1,466	551	572	1,284
Critical Water Years (16%)	713	966	4,848	2,761	5,033	5,092	2,963	1,453	596	609	775	798

Table F.2.2-9-7b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,677	4,194	15,155	28,341	40,055	29,902	16,871	10,065	7,109	9,937	9,711	8,566
20% Exceedance	4,486	3,473	9,347	15,675	22,273	21,491	12,773	7,356	6,369	9,642	9,314	6,309
30% Exceedance	4,385	3,192	5,071	9,223	15,151	15,164	8,848	5,148	5,835	9,460	8,655	4,988
40% Exceedance	3,768	2,853	4,135	6,459	10,575	11,216	5,846	4,394	5,304	9,237	8,153	3,843
50% Exceedance	2,844	2,727	3,313	5,425	7,510	7,418	4,711	3,780	4,922	8,834	6,531	2,521
60% Exceedance	2,326	2,583	2,974	4,272	5,106	5,562	3,671	3,458	4,694	7,627	5,435	2,142
70% Exceedance	2,070	2,351	2,718	3,338	4,021	4,306	3,161	2,986	4,525	6,037	3,925	1,953
80% Exceedance	1,648	2,025	2,402	2,643	3,547	3,313	2,700	2,612	3,911	4,954	3,276	1,819
90% Exceedance	1,436	1,668	2,006	2,265	2,846	2,379	2,149	2,051	3,190	3,771	2,746	1,711
Full Simulation Period Average ^a	3,142	3,378	7,033	11,061	14,768	13,290	7,918	5,025	5,267	7,577	6,346	4,020
Wet Water Years (28%)	4,442	4,559	8,418	24,802	33,918	28,794	16,261	8,267	6,105	8,673	8,115	6,591
Above Normal Water Years (14%)	4,023	3,657	6,089	12,691	15,047	16,047	8,199	5,835	5,448	9,468	9,372	6,690
Below Normal Water Years (18%)	2,907	2,839	7,810	5,842	6,853	7,313	5,070	4,260	5,599	8,736	7,176	2,716
Dry Water Years (24%)	2,283	3,081	8,024	3,695	5,907	5,049	3,824	3,402	5,310	6,710	4,369	1,938
Critical Water Years (16%)	1,490	2,016	2,875	2,506	3,209	2,830	2,417	1,936	3,206	4,003	2,633	1,775

Table F.2.2-9-7c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,536	-3,425	-11,568	-7,745	853	-3,885	-9,652	-4,824	628	8,575	7,541	5,671
20% Exceedance	1,874	-1,272	-8,232	-9,888	-6,075	-5,587	-7,542	-3,116	1,738	8,569	7,641	3,810
30% Exceedance	2,167	244	-3,833	-5,665	-7,907	-5,748	-5,767	-1,937	2,134	8,614	7,443	2,976
40% Exceedance	1,863	494	-2,578	-4,984	-8,499	-4,544	-6,512	-585	2,375	8,448	7,342	2,153
50% Exceedance	1,251	706	-1,131	-3,335	-5,737	-6,208	-4,811	-303	2,839	8,087	5,849	1,036
60% Exceedance	983	974	-684	-2,130	-3,865	-4,411	-3,498	203	3,203	6,944	4,849	831
70% Exceedance	1,042	1,035	170	-799	-3,434	-4,223	-2,264	483	3,474	5,488	3,462	854
80% Exceedance	837	1,196	642	40	-1,894	-2,894	-1,290	1,102	3,265	4,575	2,914	816
90% Exceedance	812	984	720	318	-1,296	-2,084	-803	1,156	2,797	3,518	2,502	970
Full Simulation Period Average ^a	1,146	-214	-3,086	-3,221	-4,024	-3,730	-4,248	-1,105	2,306	6,714	5,370	2,313
Wet Water Years (28%)	1,978	-40	-2,049	-5,290	-2,725	-1,030	-5,737	-3,148	647	7,301	6,548	4,032
Above Normal Water Years (14%)	1,948	-265	-2,756	-6,215	-7,064	-6,304	-5,910	-1,767	1,945	8,652	8,237	4,679
Below Normal Water Years (18%)	1,171	-101	-4,684	-3,028	-4,718	-5,351	-5,247	-477	2,846	7,987	6,525	1,201
Dry Water Years (24%)	-114	-1,261	-4,001	-1,184	-4,713	-5,140	-3,262	137	3,844	6,159	3,797	653
Critical Water Years (16%)	776	1,049	-1,972	-254	-1,823	-2,262	-546	483	2,610	3,394	1,858	977

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-8a. Feather River at Sacramento River Confluence Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,142	7,619	26,723	36,086	39,202	33,787	26,522	14,889	6,481	1,361	2,170	2,894
20% Exceedance	2,612	4,745	17,580	25,563	28,348	27,078	20,315	10,472	4,631	1,072	1,673	2,499
30% Exceedance	2,218	2,948	8,904	14,888	23,059	20,912	14,615	7,085	3,701	846	1,212	2,012
40% Exceedance	1,905	2,359	6,713	11,443	19,074	15,759	12,359	4,978	2,929	789	810	1,689
50% Exceedance	1,593	2,021	4,444	8,760	13,247	13,627	9,523	4,083	2,083	747	681	1,486
60% Exceedance	1,344	1,609	3,658	6,402	8,972	9,973	7,169	3,255	1,491	683	585	1,312
70% Exceedance	1,028	1,316	2,547	4,137	7,455	8,529	5,425	2,503	1,051	549	463	1,099
80% Exceedance	811	829	1,760	2,603	5,440	6,206	3,991	1,510	646	379	362	1,003
90% Exceedance	624	684	1,286	1,947	4,142	4,463	2,953	894	393	253	244	742
Full Simulation Period Average ^a	1,996	3,592	10,120	14,282	18,792	17,019	12,166	6,130	2,961	863	976	1,706
Wet Water Years (28%)	2,464	4,599	10,466	30,092	36,643	29,824	21,997	11,416	5,458	1,372	1,566	2,559
Above Normal Water Years (14%)	2,075	3,922	8,845	18,907	22,111	22,351	14,109	7,602	3,503	816	1,135	2,010
Below Normal Water Years (18%)	1,736	2,940	12,494	8,871	11,571	12,664	10,317	4,737	2,752	748	651	1,515
Dry Water Years (24%)	2,397	4,342	12,025	4,879	10,620	10,189	7,086	3,265	1,466	551	572	1,284
Critical Water Years (16%)	713	966	4,848	2,761	5,033	5,092	2,963	1,453	596	609	775	798

Table F.2.2-9-8b. Feather River at Sacramento River Confluence Flow, Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,725	4,194	14,721	28,160	40,067	29,604	16,837	10,062	7,016	9,958	9,687	8,514
20% Exceedance	4,506	3,510	9,356	15,764	22,274	21,491	14,095	7,597	6,306	9,735	9,321	6,631
30% Exceedance	4,395	3,231	5,081	9,285	15,412	15,165	9,897	5,880	5,760	9,546	8,657	4,882
40% Exceedance	3,764	2,837	4,162	6,453	10,552	10,919	6,667	5,040	5,238	9,302	8,064	3,987
50% Exceedance	2,884	2,731	3,344	5,422	7,508	7,418	5,841	4,376	4,875	8,782	6,746	2,643
60% Exceedance	2,499	2,605	2,969	4,241	5,100	5,562	4,982	3,810	4,680	8,097	5,399	2,240
70% Exceedance	2,205	2,369	2,761	3,307	4,021	4,306	4,037	3,293	4,519	6,044	3,920	2,018
80% Exceedance	1,692	1,999	2,408	2,642	3,496	3,312	3,335	2,995	3,816	4,937	3,334	1,890
90% Exceedance	1,458	1,703	2,021	2,261	2,845	2,379	2,651	2,047	3,033	3,870	2,751	1,763
Full Simulation Period Average ^a	3,185	3,393	7,052	11,099	14,776	13,184	8,637	5,418	5,229	7,610	6,397	4,060
Wet Water Years (28%)	4,446	4,558	8,412	24,882	33,937	28,551	16,380	8,329	6,103	8,679	8,136	6,556
Above Normal Water Years (14%)	4,059	3,705	6,115	12,842	15,094	15,865	9,240	6,715	5,440	9,556	9,381	6,735
Below Normal Water Years (18%)	2,940	2,892	7,773	5,855	6,885	7,258	6,574	4,969	5,472	8,765	7,320	2,892
Dry Water Years (24%)	2,377	3,074	8,117	3,701	5,869	5,040	4,916	3,902	5,280	6,752	4,449	2,025
Critical Water Years (16%)	1,545	2,014	2,879	2,452	3,202	2,826	2,462	1,968	3,168	4,022	2,625	1,715

Table F.2.2-9-8c. Feather River at Sacramento River Confluence Flow, Alt2woTUCPAILVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,583	-3,425	-12,003	-7,927	865	-4,183	-9,686	-4,827	535	8,596	7,518	5,619
20% Exceedance	1,894	-1,235	-8,224	-9,799	-6,074	-5,587	-6,220	-2,876	1,675	8,663	7,648	4,132
30% Exceedance	2,178	283	-3,823	-5,603	-7,647	-5,747	-4,718	-1,206	2,059	8,699	7,445	2,871
40% Exceedance	1,859	478	-2,552	-4,990	-8,521	-4,841	-5,692	62	2,309	8,513	7,253	2,297
50% Exceedance	1,292	710	-1,100	-3,338	-5,740	-6,208	-3,682	292	2,792	8,035	6,064	1,158
60% Exceedance	1,155	996	-689	-2,161	-3,872	-4,411	-2,188	555	3,189	7,415	4,814	929
70% Exceedance	1,177	1,053	214	-831	-3,434	-4,223	-1,388	789	3,468	5,495	3,457	918
80% Exceedance	881	1,170	648	39	-1,944	-2,894	-656	1,485	3,170	4,558	2,972	888
90% Exceedance	834	1,019	735	314	-1,297	-2,084	-302	1,153	2,640	3,617	2,507	1,021
Full Simulation Period Average ^a	1,189	-200	-3,068	-3,183	-4,016	-3,836	-3,529	-711	2,268	6,747	5,421	2,353
Wet Water Years (28%)	1,982	-41	-2,054	-5,210	-2,706	-1,273	-5,617	-3,087	645	7,307	6,570	3,997
Above Normal Water Years (14%)	1,984	-217	-2,730	-6,065	-7,016	-6,486	-4,869	-887	1,937	8,740	8,246	4,724
Below Normal Water Years (18%)	1,204	-47	-4,722	-3,016	-4,686	-5,406	-3,743	232	2,720	8,017	6,669	1,378
Dry Water Years (24%)	-20	-1,268	-3,908	-1,178	-4,751	-5,149	-2,170	637	3,814	6,201	3,876	741
Critical Water Years (16%)	831	1,047	-1,968	-309	-1,830	-2,266	-501	514	2,572	3,413	1,850	917

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-9a. Feather River at Sacramento River Confluence Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,142	7,619	26,723	36,086	39,202	33,787	26,522	14,889	6,481	1,361	2,170	2,894
20% Exceedance	2,612	4,745	17,580	25,563	28,348	27,078	20,315	10,472	4,631	1,072	1,673	2,499
30% Exceedance	2,218	2,948	8,904	14,888	23,059	20,912	14,615	7,085	3,701	846	1,212	2,012
40% Exceedance	1,905	2,359	6,713	11,443	19,074	15,759	12,359	4,978	2,929	789	810	1,689
50% Exceedance	1,593	2,021	4,444	8,760	13,247	13,627	9,523	4,083	2,083	747	681	1,486
60% Exceedance	1,344	1,609	3,658	6,402	8,972	9,973	7,169	3,255	1,491	683	585	1,312
70% Exceedance	1,028	1,316	2,547	4,137	7,455	8,529	5,425	2,503	1,051	549	463	1,099
80% Exceedance	811	829	1,760	2,603	5,440	6,206	3,991	1,510	646	379	362	1,003
90% Exceedance	624	684	1,286	1,947	4,142	4,463	2,953	894	393	253	244	742
Full Simulation Period Average ^a	1,996	3,592	10,120	14,282	18,792	17,019	12,166	6,130	2,961	863	976	1,706
Wet Water Years (28%)	2,464	4,599	10,466	30,092	36,643	29,824	21,997	11,416	5,458	1,372	1,566	2,559
Above Normal Water Years (14%)	2,075	3,922	8,845	18,907	22,111	22,351	14,109	7,602	3,503	816	1,135	2,010
Below Normal Water Years (18%)	1,736	2,940	12,494	8,871	11,571	12,664	10,317	4,737	2,752	748	651	1,515
Dry Water Years (24%)	2,397	4,342	12,025	4,879	10,620	10,189	7,086	3,265	1,466	551	572	1,284
Critical Water Years (16%)	713	966	4,848	2,761	5,033	5,092	2,963	1,453	596	609	775	798

Table F.2.2-9-9b. Feather River at Sacramento River Confluence Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,706	4,194	16,261	28,542	40,062	29,802	16,872	10,067	7,147	9,827	9,716	8,221
20% Exceedance	4,487	3,485	9,348	16,826	22,985	21,491	13,294	7,356	6,364	9,608	9,305	6,405
30% Exceedance	4,385	3,066	5,099	9,243	15,373	15,662	8,841	5,345	5,859	9,426	8,788	4,646
40% Exceedance	3,416	2,814	4,137	6,460	10,575	11,248	5,852	4,382	5,328	9,235	8,117	3,432
50% Exceedance	2,922	2,684	3,347	5,425	7,509	7,419	4,781	3,712	4,999	8,795	6,763	2,630
60% Exceedance	2,326	2,481	2,984	4,389	5,077	5,632	3,779	3,500	4,709	7,851	4,095	2,180
70% Exceedance	2,089	2,256	2,704	3,442	4,021	4,271	3,316	3,139	4,428	5,421	3,049	1,926
80% Exceedance	1,626	1,919	2,421	2,669	3,496	3,286	2,529	2,639	3,891	4,082	2,713	1,787
90% Exceedance	1,427	1,719	2,010	2,350	2,846	2,356	1,546	1,854	2,874	3,333	2,455	1,632
Full Simulation Period Average ^a	3,125	3,353	7,129	11,179	14,851	13,353	7,877	5,032	5,219	7,373	6,148	3,933
Wet Water Years (28%)	4,423	4,504	8,525	25,135	34,054	28,804	16,263	8,293	6,100	8,633	8,119	6,484
Above Normal Water Years (14%)	4,032	3,673	6,095	12,648	15,074	16,655	8,317	5,843	5,488	9,397	9,377	6,448
Below Normal Water Years (18%)	2,828	2,828	7,955	5,867	7,132	7,387	5,215	4,324	5,525	8,842	7,033	2,734
Dry Water Years (24%)	2,283	3,085	8,197	3,708	5,889	5,041	3,869	3,447	5,448	6,550	3,814	1,963
Critical Water Years (16%)	1,501	1,942	2,859	2,655	3,176	2,604	1,822	1,791	2,754	2,977	2,378	1,570

Table F.2.2-9-9c. Feather River at Sacramento River Confluence Flow, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,564	-3,425	-10,463	-7,544	860	-3,985	-9,650	-4,822	666	8,466	7,546	5,327
20% Exceedance	1,875	-1,260	-8,232	-8,737	-5,363	-5,587	-7,021	-3,116	1,733	8,536	7,632	3,906
30% Exceedance	2,167	118	-3,806	-5,644	-7,686	-5,250	-5,774	-1,740	2,158	8,580	7,576	2,635
40% Exceedance	1,511	455	-2,577	-4,983	-8,499	-4,511	-6,507	-596	2,400	8,446	7,306	1,742
50% Exceedance	1,329	664	-1,097	-3,334	-5,738	-6,208	-4,742	-371	2,915	8,048	6,082	1,144
60% Exceedance	983	872	-674	-2,013	-3,895	-4,342	-3,390	244	3,218	7,168	3,510	868
70% Exceedance	1,061	939	157	-695	-3,434	-4,257	-2,109	635	3,377	4,872	2,586	826
80% Exceedance	815	1,090	661	66	-1,944	-2,921	-1,462	1,129	3,245	3,702	2,351	784
90% Exceedance	803	1,035	724	403	-1,296	-2,107	-1,407	959	2,481	3,080	2,211	891
Full Simulation Period Average ^a	1,129	-240	-2,990	-3,103	-3,941	-3,666	-4,290	-1,097	2,258	6,510	5,172	2,226
Wet Water Years (28%)	1,959	-96	-1,941	-4,957	-2,589	-1,020	-5,735	-3,123	642	7,261	6,552	3,925
Above Normal Water Years (14%)	1,957	-249	-2,750	-6,259	-7,037	-5,697	-5,792	-1,759	1,985	8,581	8,241	4,438
Below Normal Water Years (18%)	1,092	-112	-4,540	-3,003	-4,439	-5,277	-5,102	-413	2,773	8,094	6,382	1,219
Dry Water Years (24%)	-114	-1,258	-3,828	-1,171	-4,730	-5,147	-3,217	182	3,982	5,999	3,242	679
Critical Water Years (16%)	788	976	-1,989	-105	-1,857	-2,488	-1,140	337	2,159	2,368	1,603	773

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-9-10a. Feather River at Sacramento River Confluence Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,142	7,619	26,723	36,086	39,202	33,787	26,522	14,889	6,481	1,361	2,170	2,894
20% Exceedance	2,612	4,745	17,580	25,563	28,348	27,078	20,315	10,472	4,631	1,072	1,673	2,499
30% Exceedance	2,218	2,948	8,904	14,888	23,059	20,912	14,615	7,085	3,701	846	1,212	2,012
40% Exceedance	1,905	2,359	6,713	11,443	19,074	15,759	12,359	4,978	2,929	789	810	1,689
50% Exceedance	1,593	2,021	4,444	8,760	13,247	13,627	9,523	4,083	2,083	747	681	1,486
60% Exceedance	1,344	1,609	3,658	6,402	8,972	9,973	7,169	3,255	1,491	683	585	1,312
70% Exceedance	1,028	1,316	2,547	4,137	7,455	8,529	5,425	2,503	1,051	549	463	1,099
80% Exceedance	811	829	1,760	2,603	5,440	6,206	3,991	1,510	646	379	362	1,003
90% Exceedance	624	684	1,286	1,947	4,142	4,463	2,953	894	393	253	244	742
Full Simulation Period Average ^a	1,996	3,592	10,120	14,282	18,792	17,019	12,166	6,130	2,961	863	976	1,706
Wet Water Years (28%)	2,464	4,599	10,466	30,092	36,643	29,824	21,997	11,416	5,458	1,372	1,566	2,559
Above Normal Water Years (14%)	2,075	3,922	8,845	18,907	22,111	22,351	14,109	7,602	3,503	816	1,135	2,010
Below Normal Water Years (18%)	1,736	2,940	12,494	8,871	11,571	12,664	10,317	4,737	2,752	748	651	1,515
Dry Water Years (24%)	2,397	4,342	12,025	4,879	10,620	10,189	7,086	3,265	1,466	551	572	1,284
Critical Water Years (16%)	713	966	4,848	2,761	5,033	5,092	2,963	1,453	596	609	775	798

Table F.2.2-9-10b. Feather River at Sacramento River Confluence Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	4,742	4,253	15,479	26,953	40,265	29,847	16,873	10,067	7,308	9,943	9,728	8,333
20% Exceedance	4,536	3,509	9,501	15,815	22,557	22,453	12,775	7,322	6,378	9,634	9,281	6,354
30% Exceedance	4,383	3,112	5,428	9,300	15,153	15,654	8,839	5,294	5,929	9,554	8,814	4,373
40% Exceedance	3,830	2,848	4,214	6,463	10,575	11,201	5,852	4,566	5,412	9,317	8,092	3,313
50% Exceedance	2,839	2,697	3,390	5,454	7,599	7,419	4,745	3,899	4,864	9,001	6,510	2,649
60% Exceedance	2,341	2,515	2,985	4,294	5,078	5,632	3,740	3,510	4,635	8,527	4,263	2,178
70% Exceedance	2,150	2,315	2,742	3,214	4,023	4,278	3,315	3,273	4,409	5,990	3,366	1,922
80% Exceedance	1,682	1,907	2,426	2,615	3,509	3,286	2,401	2,762	3,744	4,171	2,794	1,783
90% Exceedance	1,457	1,671	1,998	2,226	2,848	2,358	1,429	1,773	2,879	3,258	2,478	1,631
Full Simulation Period Average ^a	3,182	3,369	7,099	11,064	14,806	13,369	7,834	5,095	5,214	7,541	6,186	3,833
Wet Water Years (28%)	4,466	4,572	8,696	25,015	33,961	28,797	16,262	8,249	5,918	8,727	8,206	6,363
Above Normal Water Years (14%)	4,069	3,657	6,106	12,350	14,998	16,934	8,343	5,836	5,539	9,553	9,403	5,864
Below Normal Water Years (18%)	2,825	2,802	7,832	5,877	7,059	7,254	5,122	4,832	5,518	8,775	6,645	2,806
Dry Water Years (24%)	2,287	3,075	7,950	3,716	5,905	5,053	3,874	3,439	5,616	6,991	4,149	1,967
Critical Water Years (16%)	1,760	1,990	2,865	2,382	3,183	2,606	1,627	1,708	2,757	3,137	2,375	1,582

Table F.2.2-9-10c. Feather River at Sacramento River Confluence Flow, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,600	-3,366	-11,245	-9,133	1,063	-3,940	-9,649	-4,823	827	8,581	7,558	5,438
20% Exceedance	1,924	-1,235	-8,079	-9,748	-5,792	-4,626	-7,540	-3,150	1,747	8,562	7,608	3,855
30% Exceedance	2,166	164	-3,477	-5,588	-7,905	-5,258	-5,776	-1,792	2,228	8,708	7,602	2,361
40% Exceedance	1,925	489	-2,500	-4,980	-8,499	-4,558	-6,506	-413	2,483	8,528	7,281	1,623
50% Exceedance	1,247	676	-1,054	-3,306	-5,648	-6,208	-4,778	-184	2,781	8,254	5,829	1,163
60% Exceedance	997	906	-673	-2,108	-3,893	-4,342	-3,429	254	3,144	7,845	3,678	867
70% Exceedance	1,122	999	195	-923	-3,433	-4,250	-2,110	770	3,358	5,441	2,903	822
80% Exceedance	871	1,078	666	12	-1,931	-2,920	-1,590	1,252	3,098	3,791	2,432	780
90% Exceedance	833	987	711	280	-1,294	-2,105	-1,524	879	2,486	3,005	2,235	890
Full Simulation Period Average ^a	1,186	-223	-3,021	-3,218	-3,986	-3,650	-4,333	-1,034	2,253	6,678	5,210	2,126
Wet Water Years (28%)	2,002	-28	-1,770	-5,077	-2,681	-1,027	-5,735	-3,167	460	7,355	6,640	3,804
Above Normal Water Years (14%)	1,994	-265	-2,739	-6,557	-7,112	-5,417	-5,766	-1,766	2,036	8,737	8,268	3,853
Below Normal Water Years (18%)	1,089	-137	-4,662	-2,994	-4,513	-5,410	-5,194	94	2,766	8,027	5,994	1,291
Dry Water Years (24%)	-110	-1,268	-4,075	-1,162	-4,715	-5,135	-3,212	174	4,150	6,440	3,577	683
Critical Water Years (16%)	1,046	1,023	-1,982	-379	-1,850	-2,486	-1,336	255	2,161	2,528	1,600	784

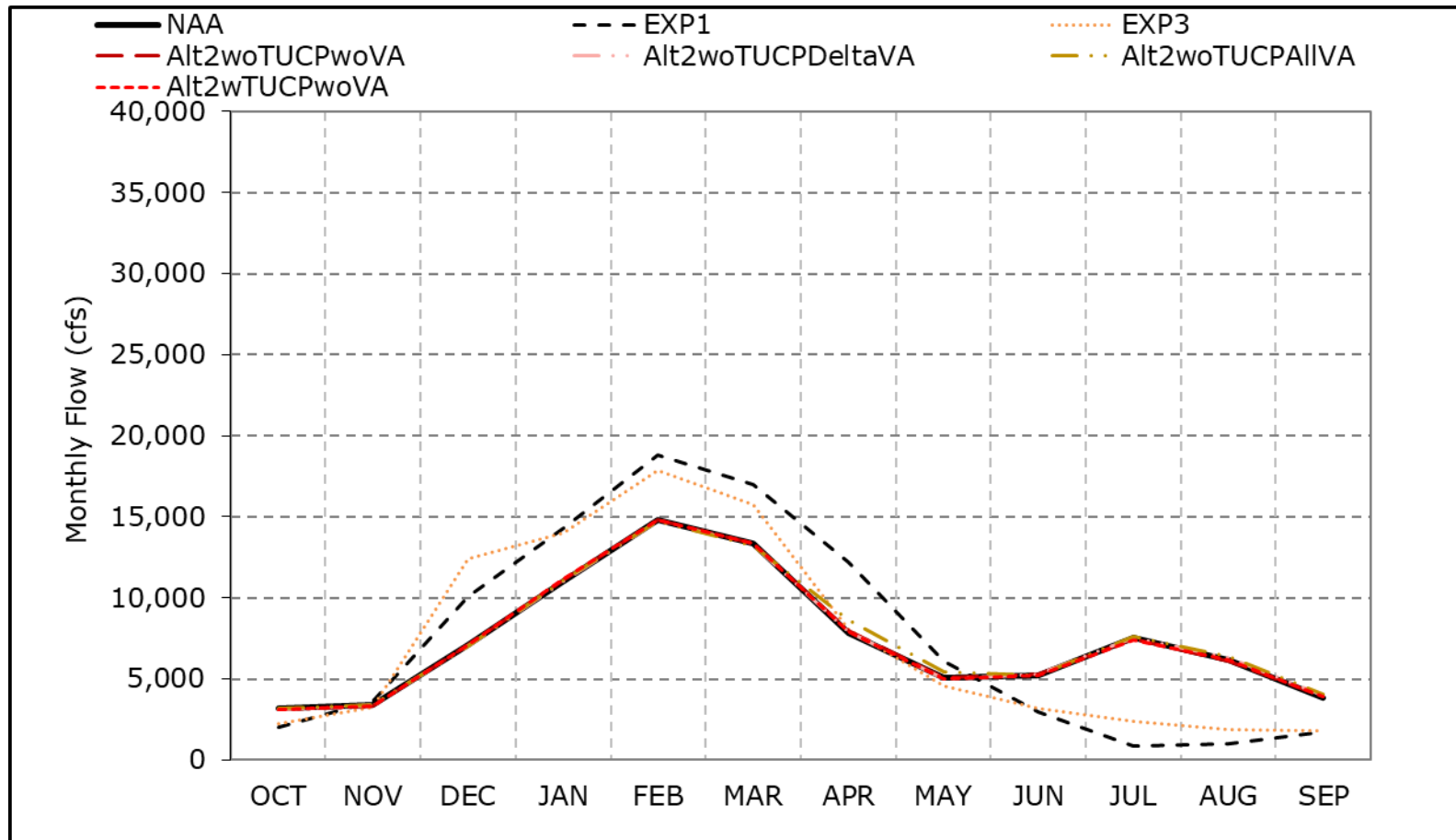
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-9-1. Feather River at Sacramento River Confluence Flow, Long-Term Average Flow

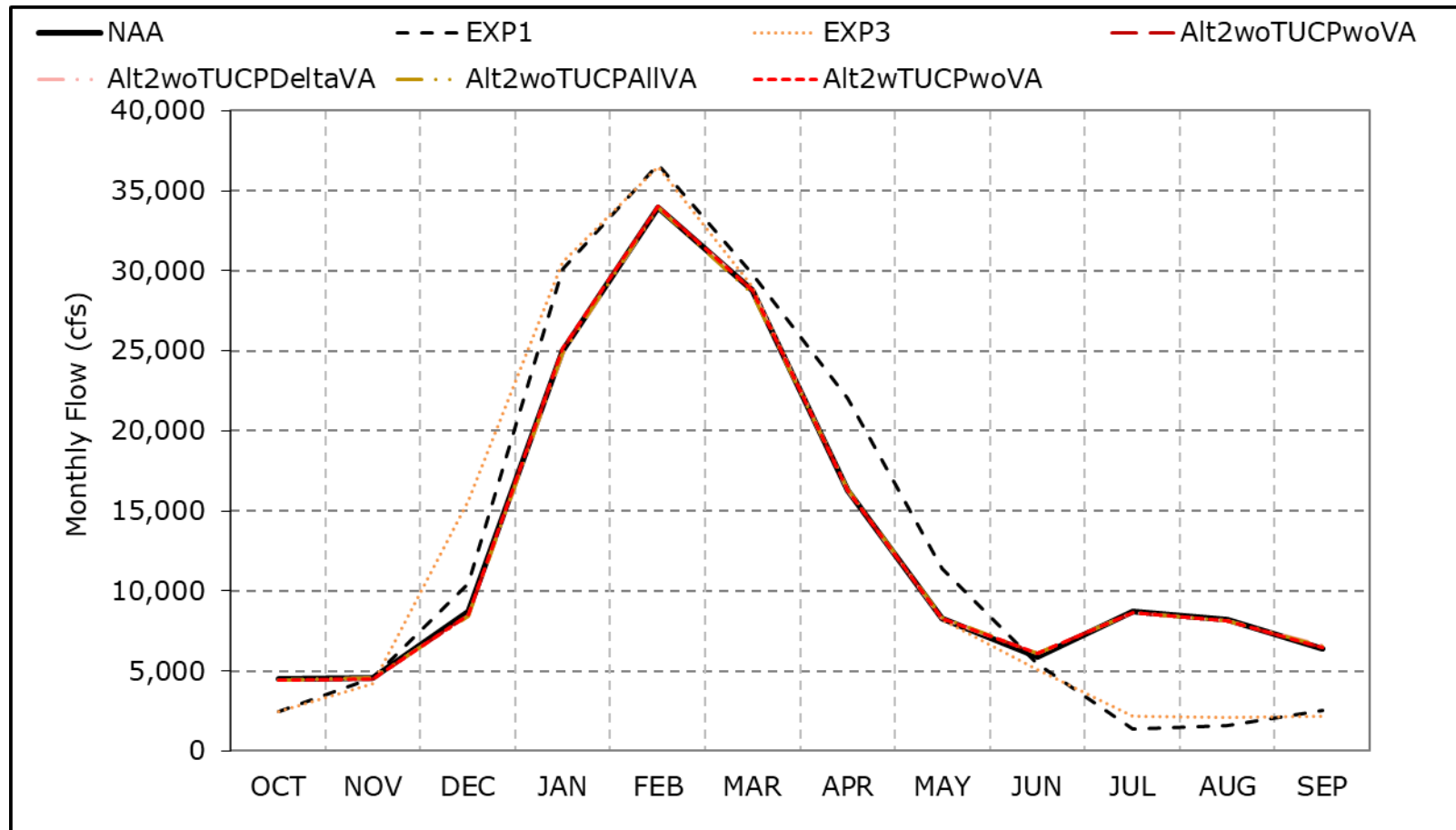


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-2. Feather River at Sacramento River Confluence Flow, Wet Year Average Flow

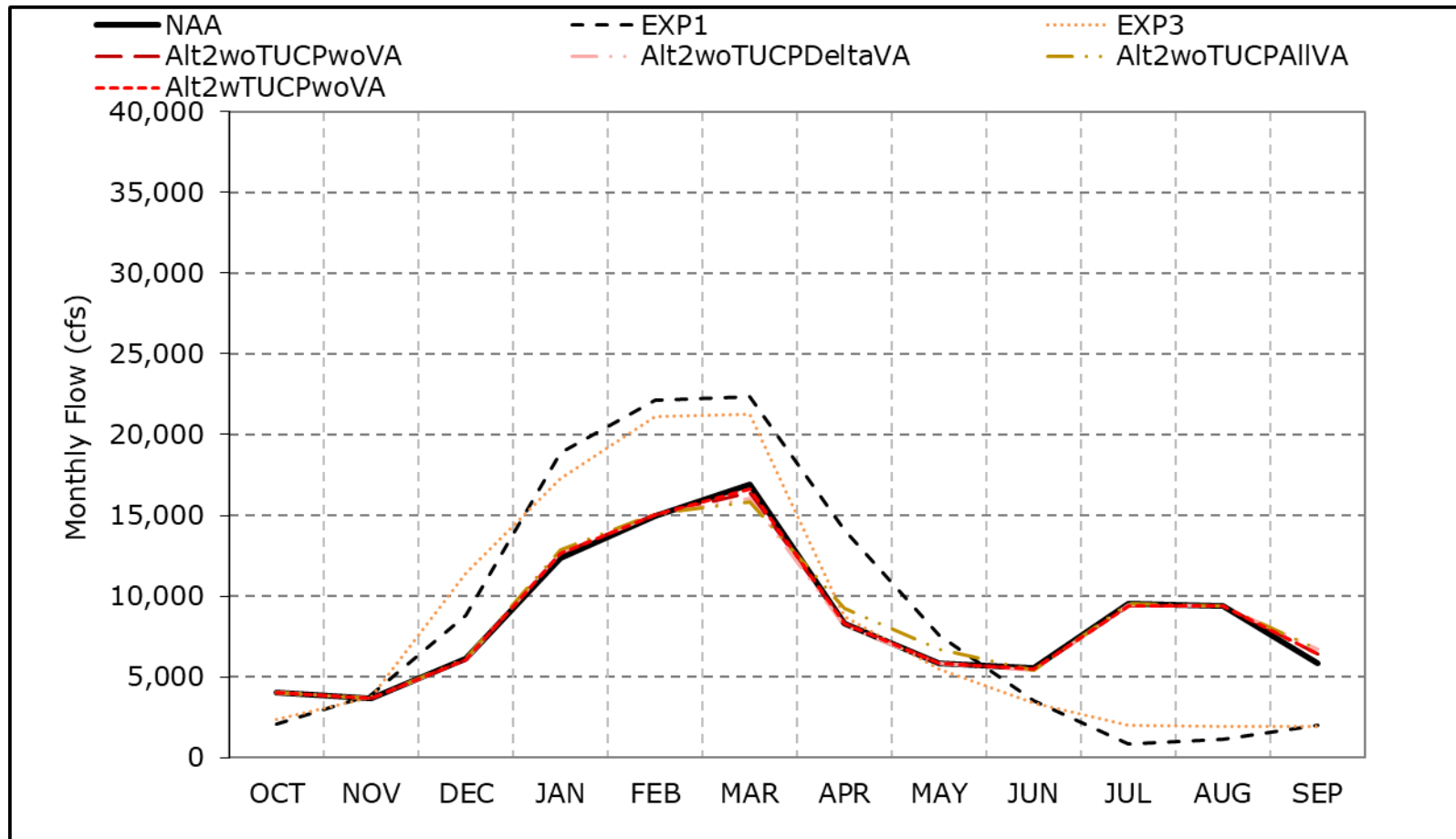


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-3. Feather River at Sacramento River Confluence Flow, Above Normal Year Average Flow

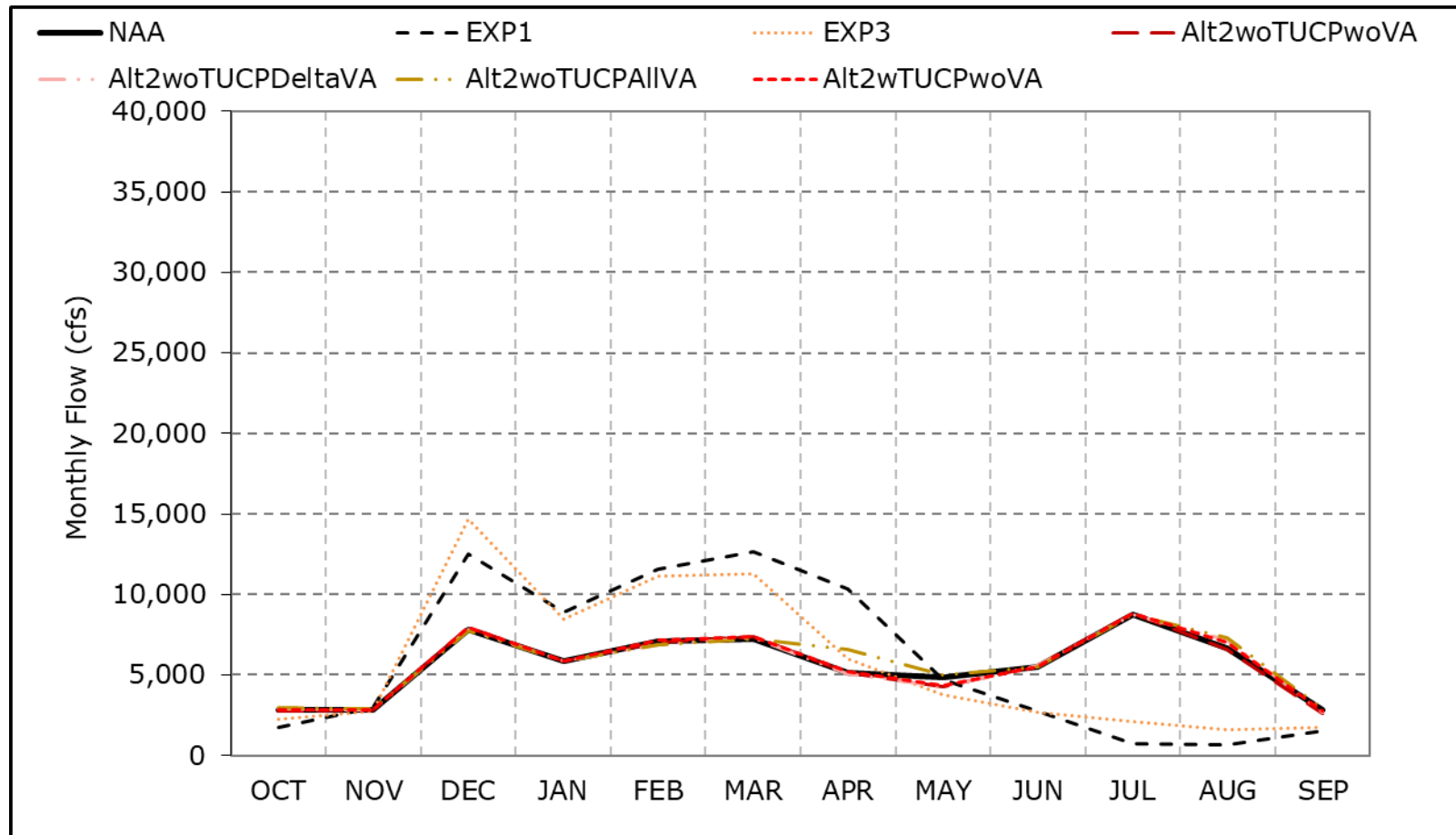


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-4. Feather River at Sacramento River Confluence Flow, Below Normal Year Average Flow

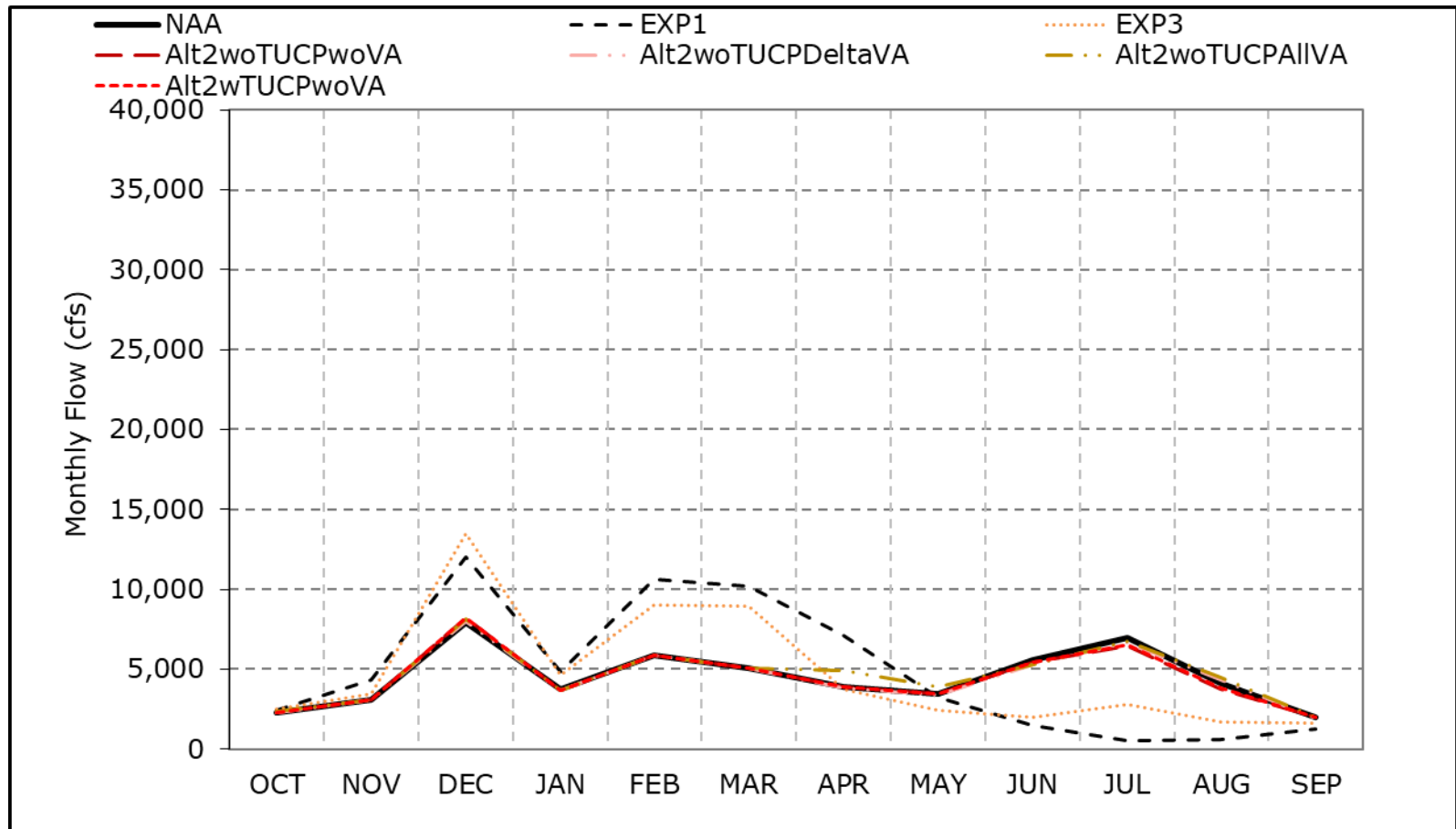


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-5. Feather River at Sacramento River Confluence Flow, Dry Year Average Flow

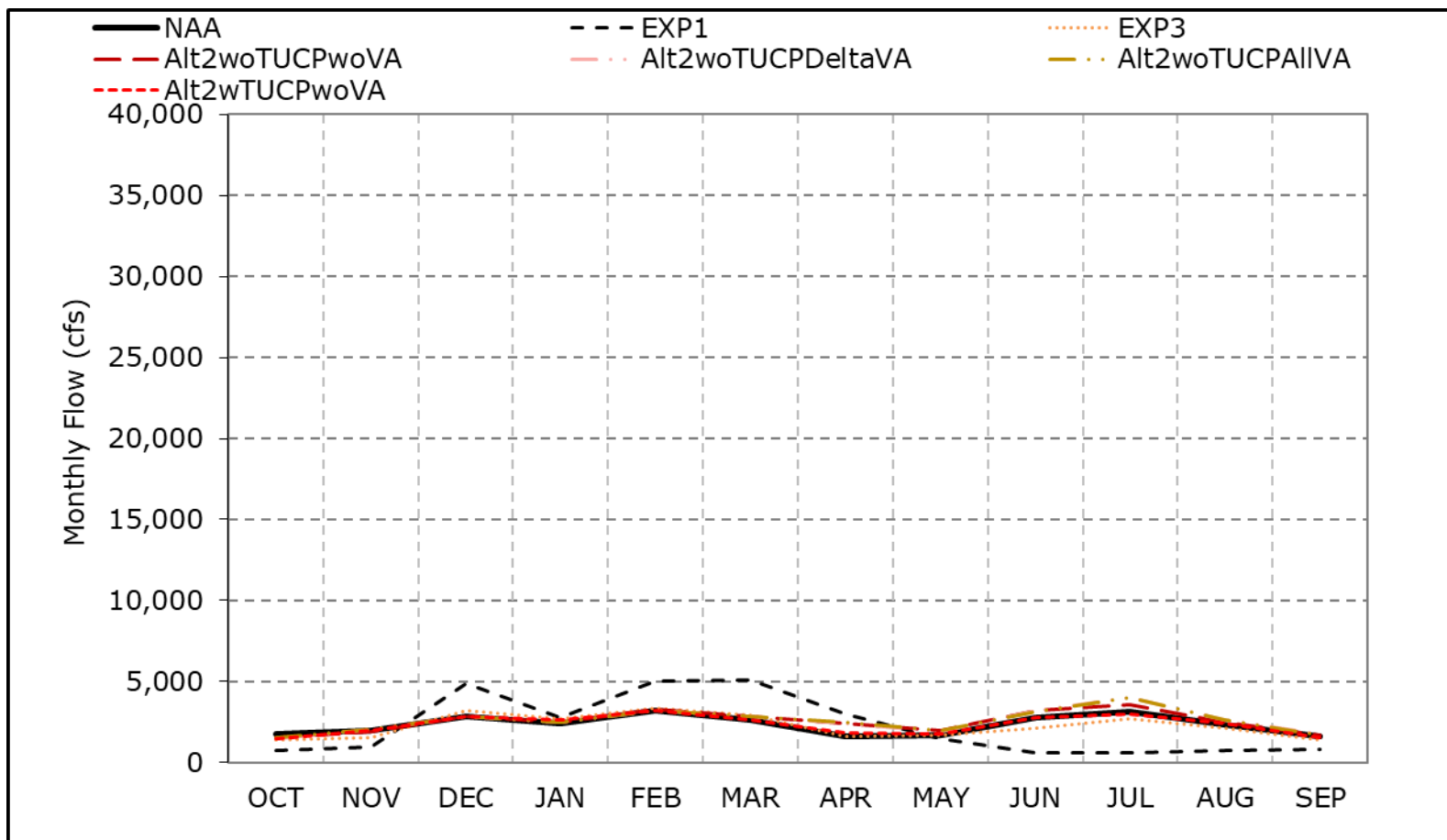


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-6. Feather River at Sacramento River Confluence Flow, Critical Year Average Flow

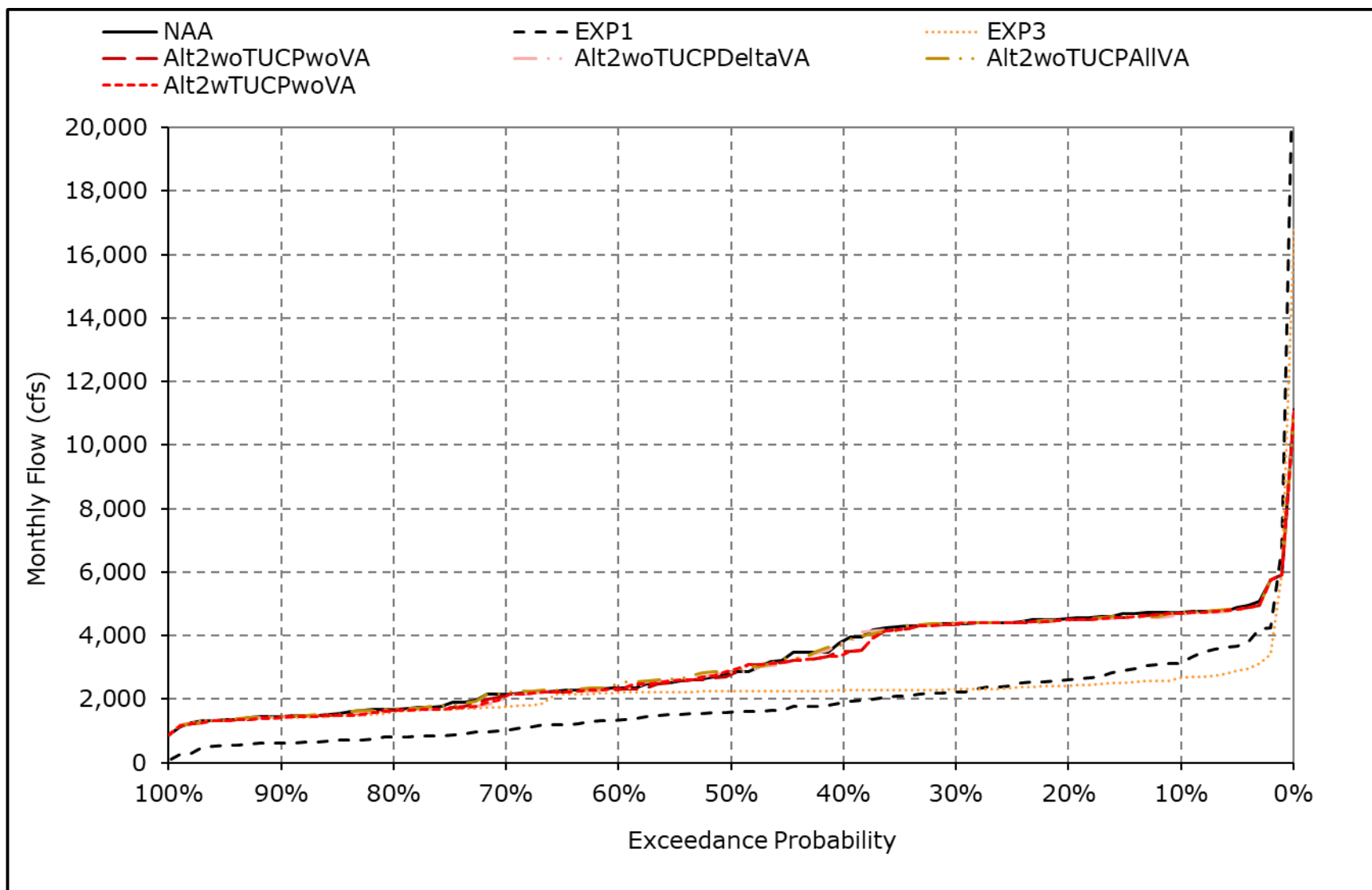


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

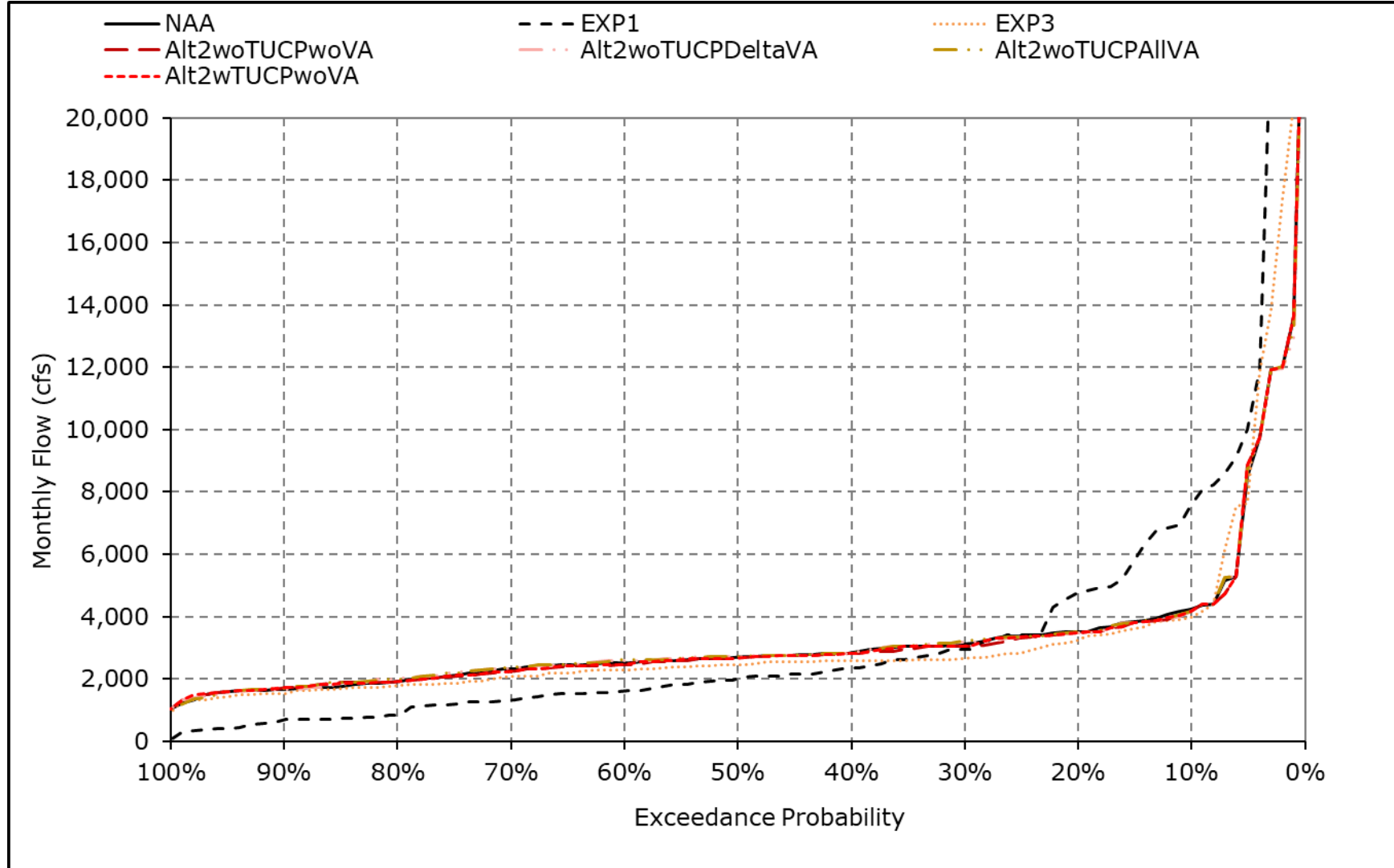
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-7. Feather River at Sacramento River Confluence Flow, October



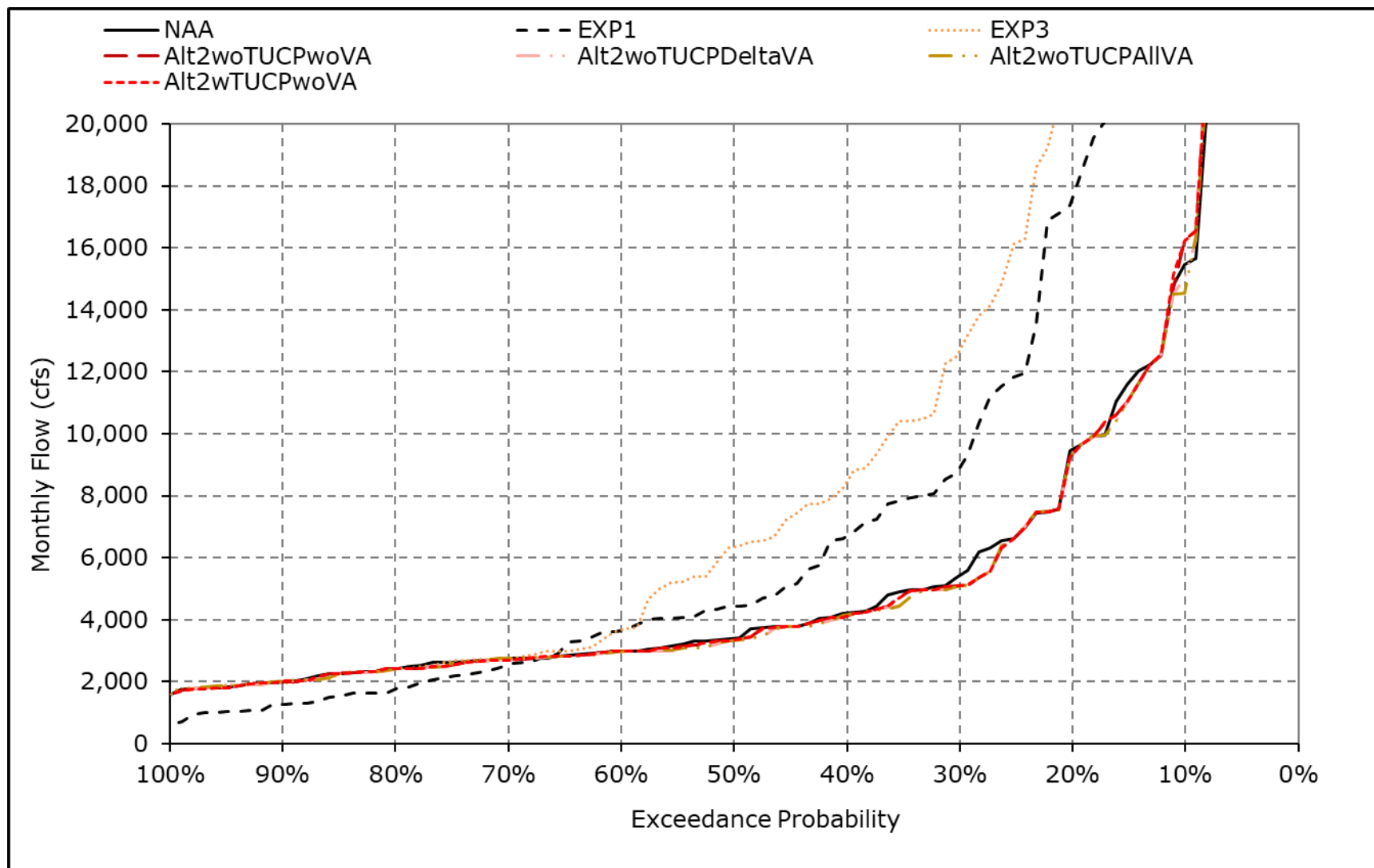
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-8. Feather River at Sacramento River Confluence Flow, November



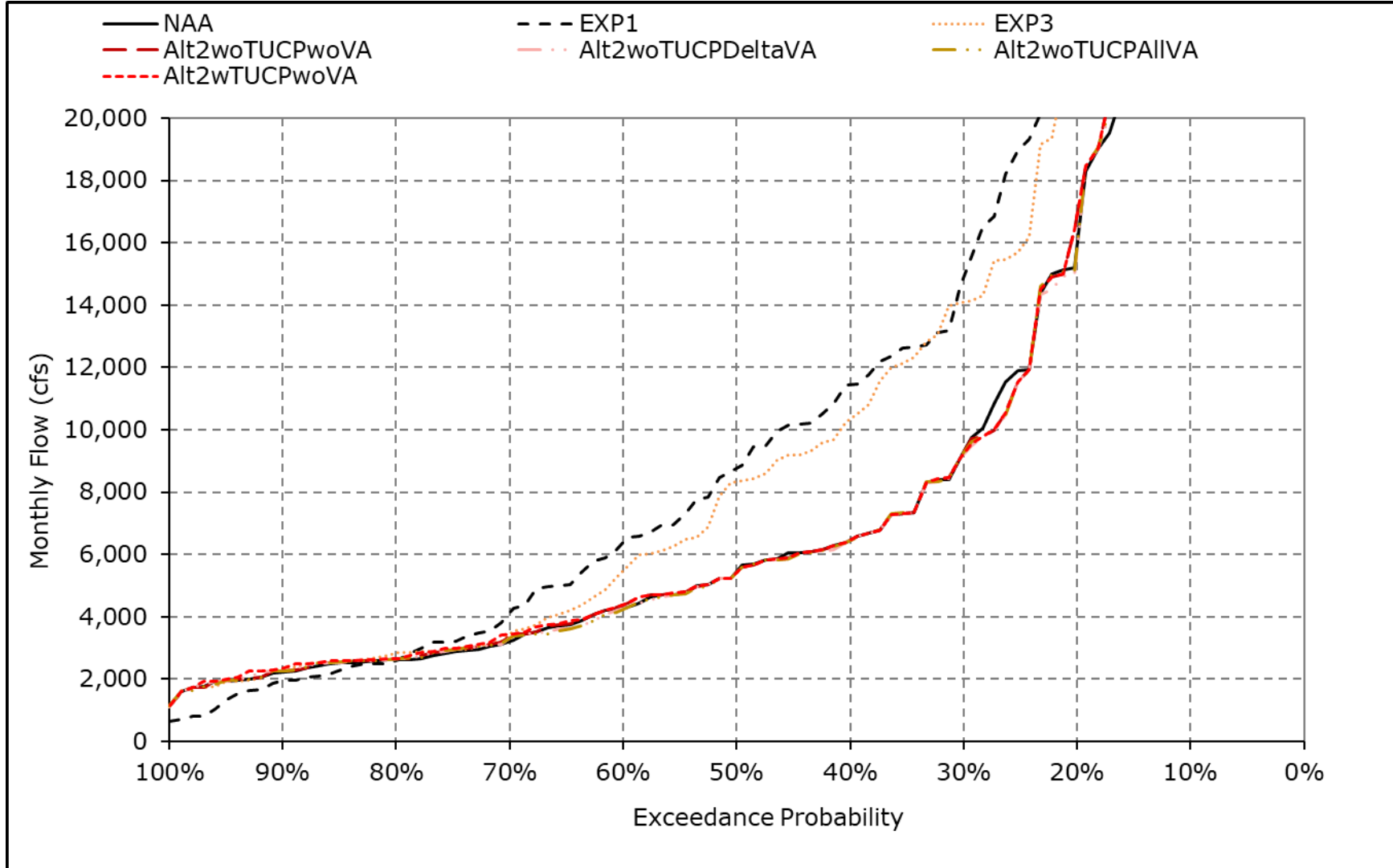
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-9. Feather River at Sacramento River Confluence Flow, December



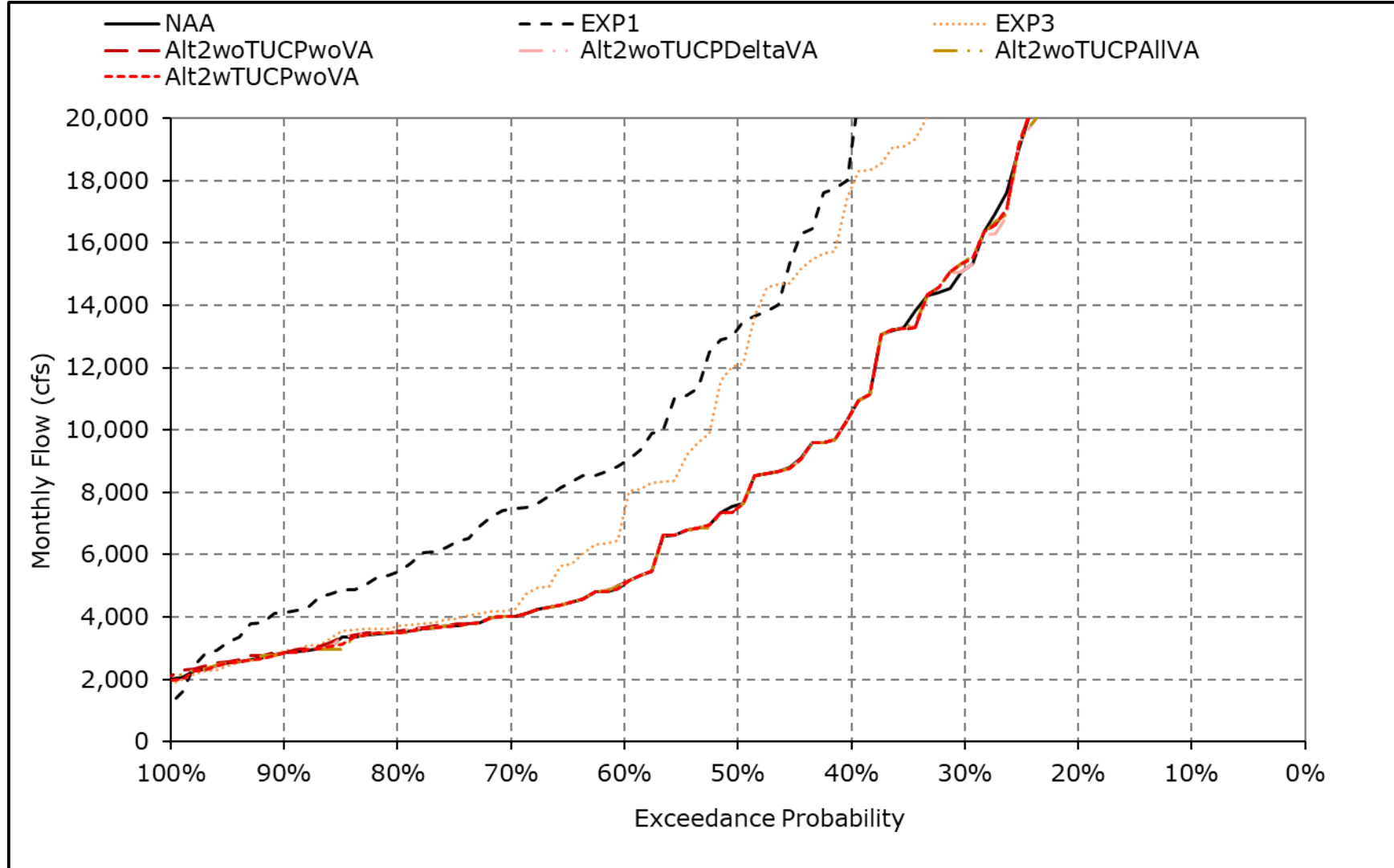
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-10. Feather River at Sacramento River Confluence Flow, January



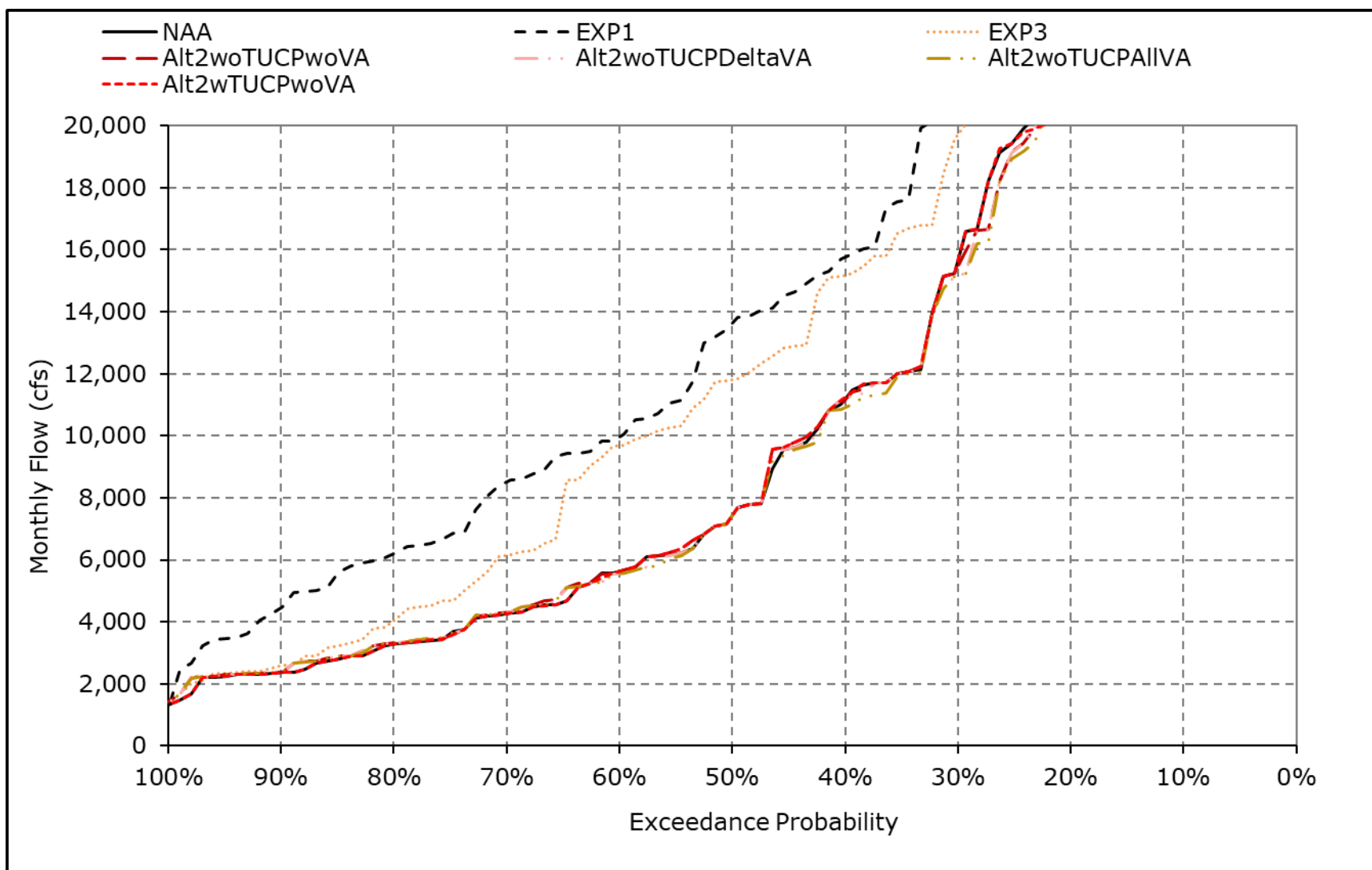
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-11. Feather River at Sacramento River Confluence Flow, February



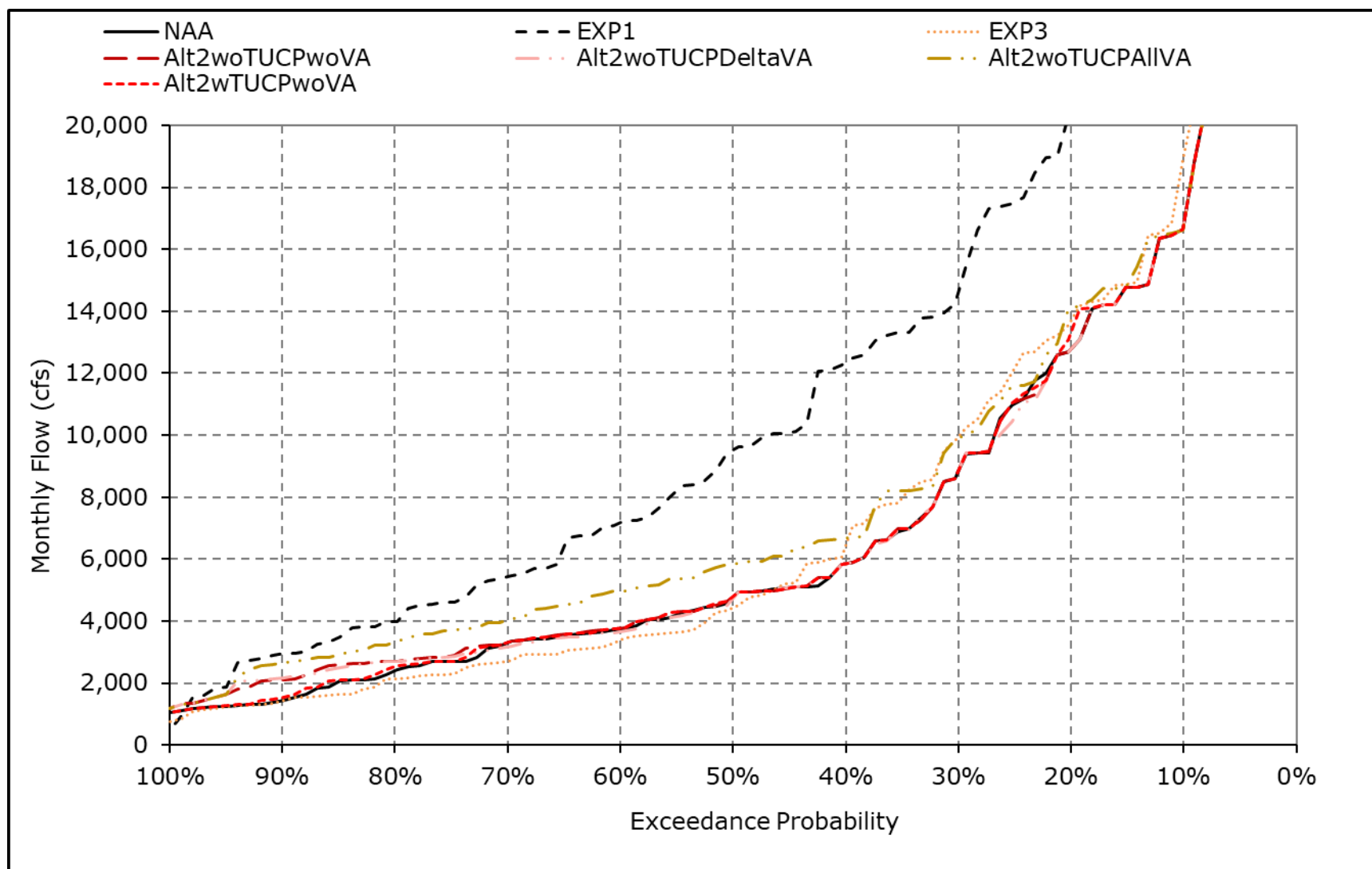
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-12. Feather River at Sacramento River Confluence Flow, March



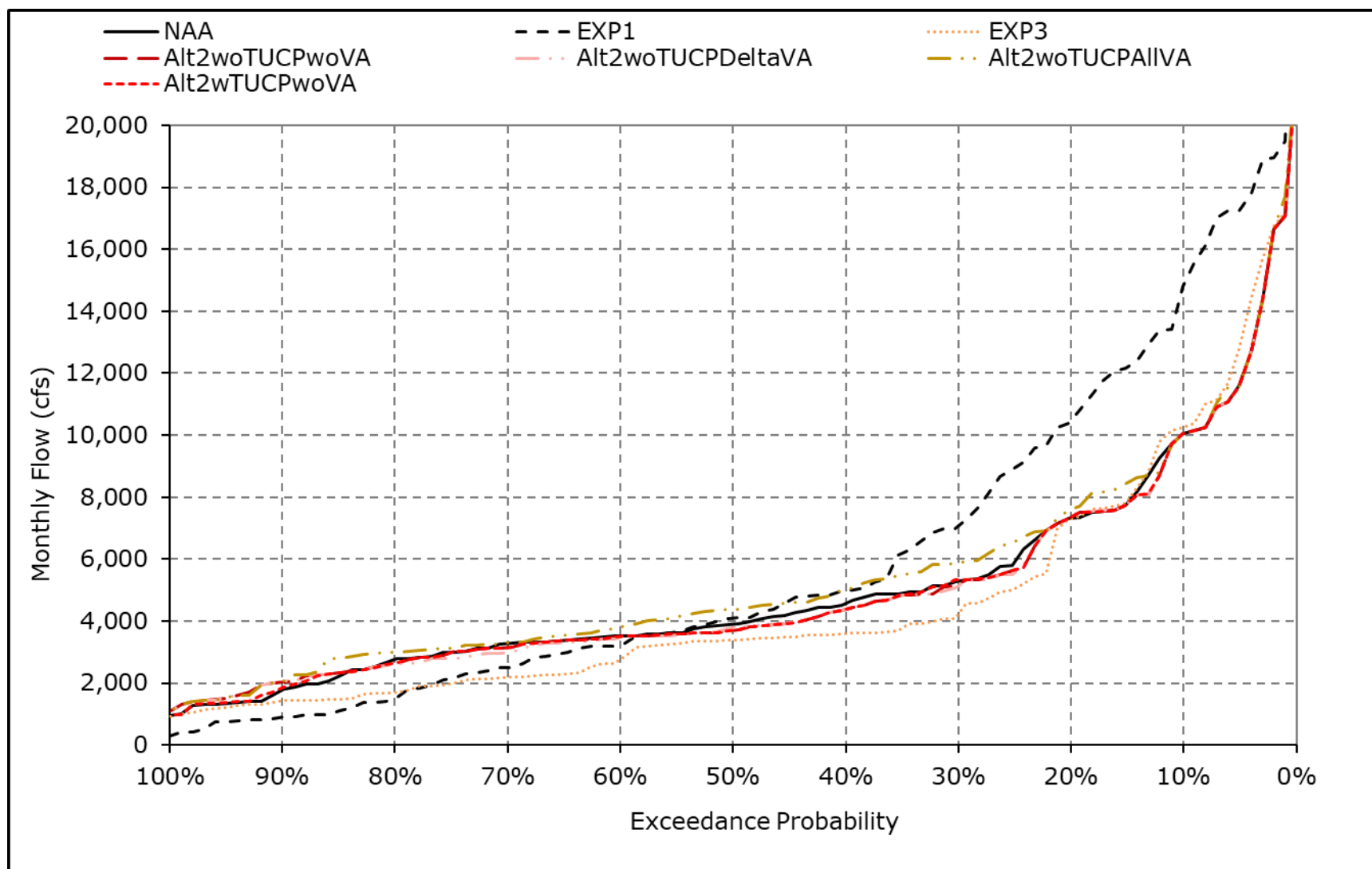
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-13. Feather River at Sacramento River Confluence Flow, April



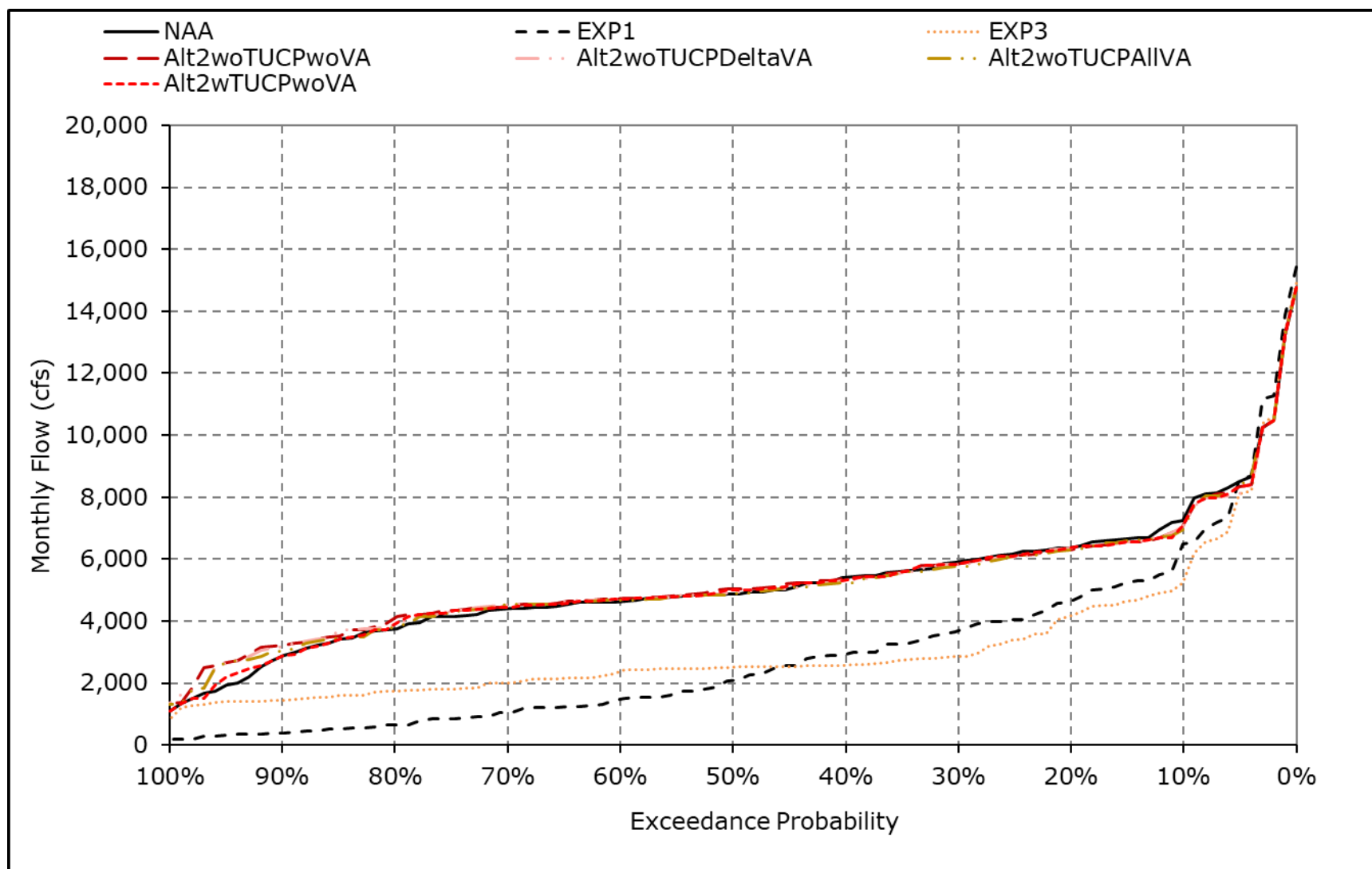
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-14. Feather River at Sacramento River Confluence Flow, May



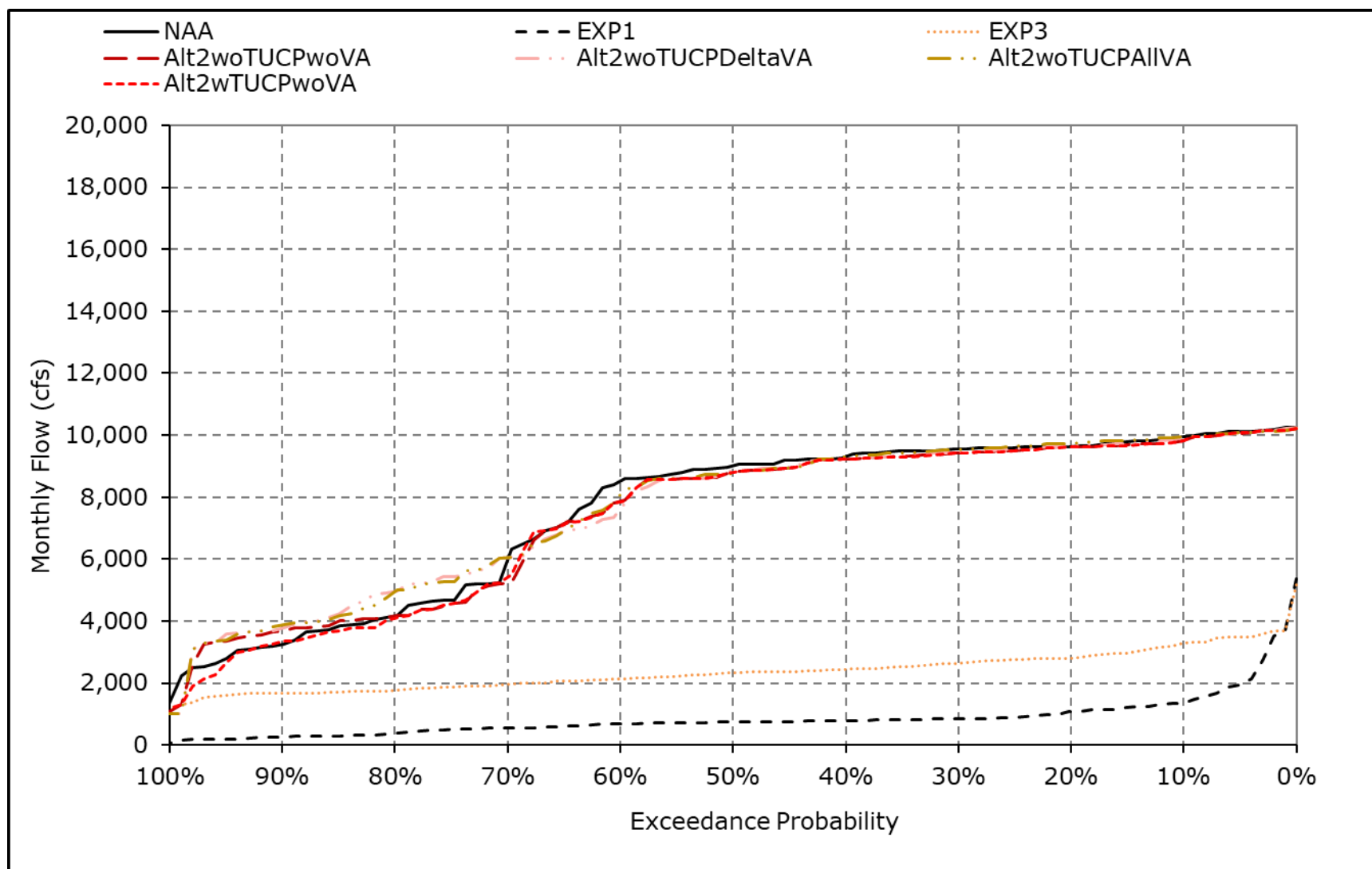
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-15. Feather River at Sacramento River Confluence Flow, June



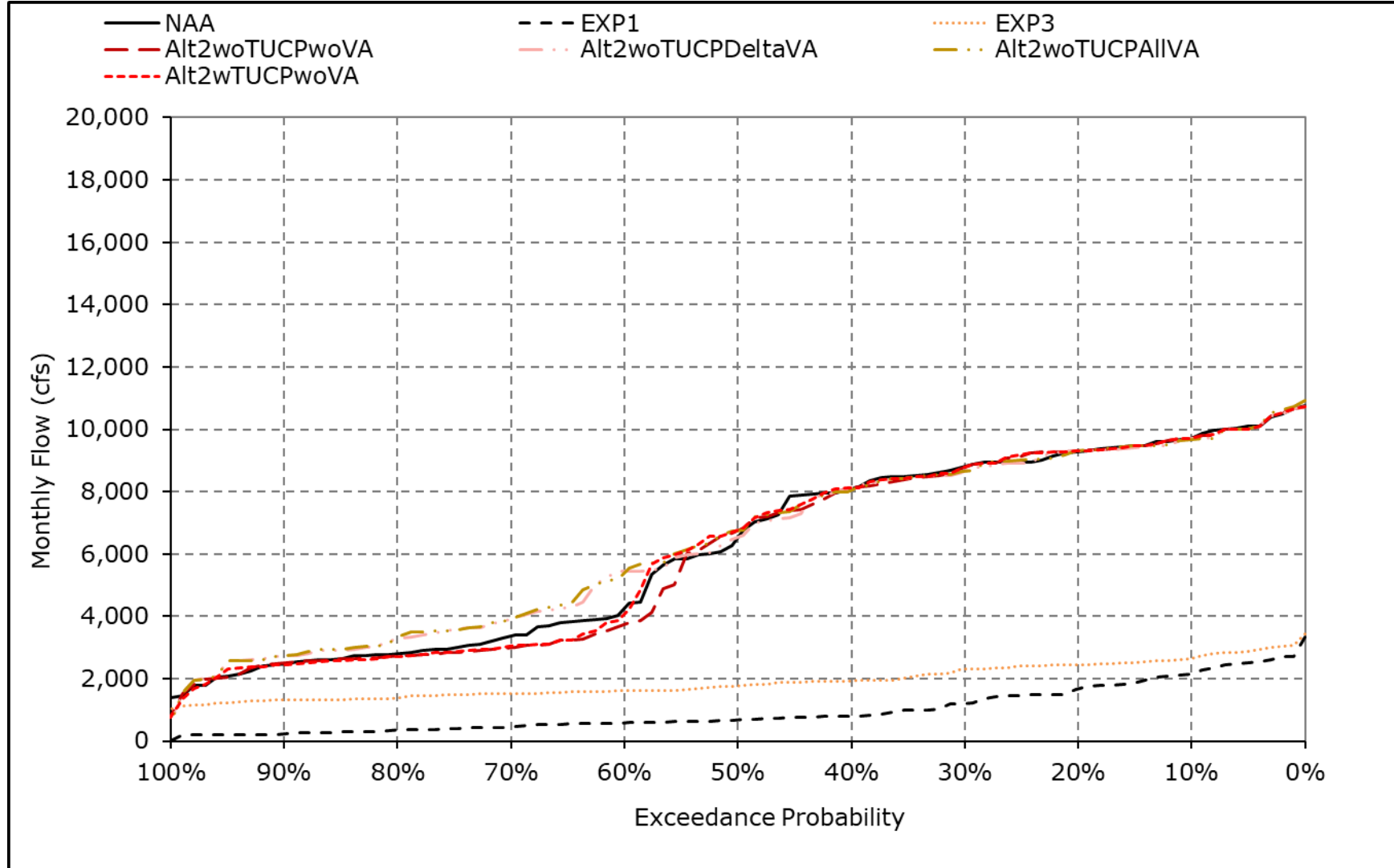
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-16. Feather River at Sacramento River Confluence Flow, July



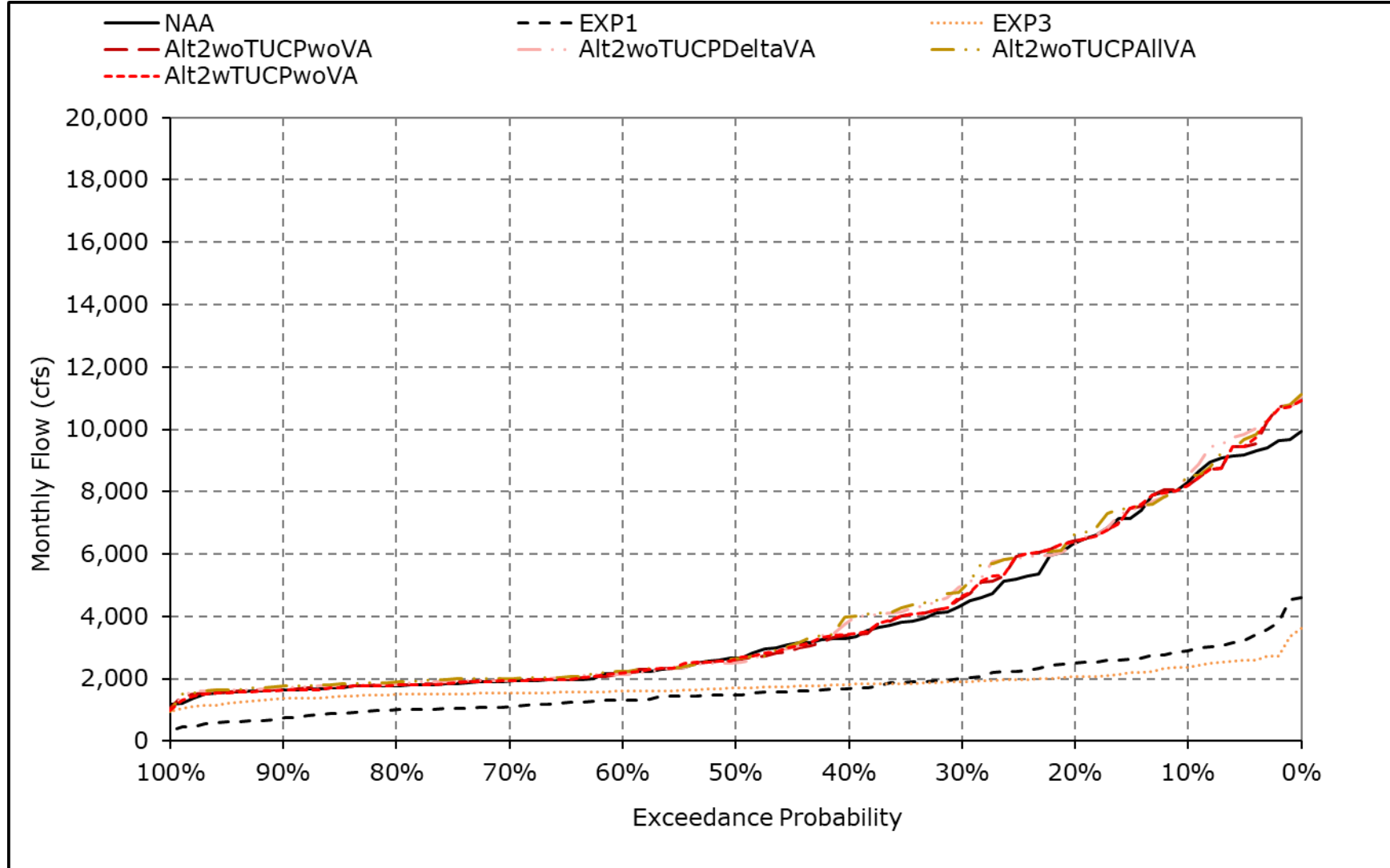
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-17. Feather River at Sacramento River Confluence Flow, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-9-18. Feather River at Sacramento River Confluence Flow, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-10-1a. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-1b. Fremont Weir Spills, Alt2woTUCPwoVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	180	10,951	27,274	50,902	21,124	20	0	0	0	0	0
20% Exceedance	0	17	2,919	9,977	16,341	5,655	0	0	0	0	0	0
30% Exceedance	0	6	1,009	2,591	6,395	2,283	0	0	0	0	0	0
40% Exceedance	0	0	222	1,651	3,443	1,089	0	0	0	0	0	0
50% Exceedance	0	0	101	805	1,740	455	0	0	0	0	0	0
60% Exceedance	0	0	15	246	636	228	0	0	0	0	0	0
70% Exceedance	0	0	5	82	262	69	0	0	0	0	0	0
80% Exceedance	0	0	0	19	68	20	0	0	0	0	0	0
90% Exceedance	0	0	0	7	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	45	260	3,700	9,117	13,768	7,261	953	11	0	0	0	0
Wet Water Years (28%)	0	477	4,941	27,317	39,698	21,540	3,396	11	0	0	0	0
Above Normal Water Years (14%)	0	339	1,386	8,078	12,824	7,134	1	0	0	0	0	0
Below Normal Water Years (18%)	0	55	3,811	1,416	1,607	688	12	43	0	0	0	0
Dry Water Years (24%)	189	272	5,754	242	2,191	405	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	151	264	61	0	0	0	0	0	0

Table F.2.2-10-1c. Fremont Weir Spills, Alt2woTUCPwoVA minus NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	38	-333	142	-175	83	-6	0	0	0	0	0
20% Exceedance	0	0	97	117	-37	-247	0	0	0	0	0	0
30% Exceedance	0	0	2	32	59	-417	0	0	0	0	0	0
40% Exceedance	0	0	23	0	2	-11	0	0	0	0	0	0
50% Exceedance	0	0	-3	40	256	3	0	0	0	0	0	0
60% Exceedance	0	0	-4	44	2	49	0	0	0	0	0	0
70% Exceedance	0	0	0	29	2	6	0	0	0	0	0	0
80% Exceedance	0	0	0	3	1	7	0	0	0	0	0	0
90% Exceedance	0	0	0	2	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-3	9	102	120	87	-82	-1	0	0	0	0	0
Wet Water Years (28%)	0	7	23	291	191	-2	-2	0	0	0	0	0
Above Normal Water Years (14%)	0	1	-12	231	48	-612	-1	0	0	0	0	0
Below Normal Water Years (18%)	0	7	80	9	53	13	0	0	0	0	0	0
Dry Water Years (24%)	-14	22	345	13	68	6	0	0	0	0	0	0
Critical Water Years (16%)	0	0	1	6	4	2	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-2a. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-2b. Fremont Weir Spills, Alt2woTUCPDeltaVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	179	10,874	27,216	50,888	20,956	20	0	0	0	0	0
20% Exceedance	0	17	3,098	9,985	16,362	5,659	0	0	0	0	0	0
30% Exceedance	0	5	1,010	2,591	6,399	2,778	0	0	0	0	0	0
40% Exceedance	0	0	215	1,649	3,443	1,092	0	0	0	0	0	0
50% Exceedance	0	0	101	799	1,739	451	0	0	0	0	0	0
60% Exceedance	0	0	17	207	634	220	0	0	0	0	0	0
70% Exceedance	0	0	4	66	261	59	0	0	0	0	0	0
80% Exceedance	0	0	0	15	63	18	0	0	0	0	0	0
90% Exceedance	0	0	0	7	13	0	0	0	0	0	0	0
Full Simulation Period Average ^a	46	252	3,656	9,067	13,742	7,262	953	11	0	0	0	0
Wet Water Years (28%)	0	475	4,929	27,124	39,624	21,537	3,396	11	0	0	0	0
Above Normal Water Years (14%)	0	320	1,378	8,134	12,806	7,158	0	0	0	0	0	0
Below Normal Water Years (18%)	0	58	3,742	1,410	1,565	685	12	43	0	0	0	0
Dry Water Years (24%)	190	250	5,645	234	2,217	402	0	0	0	0	0	0
Critical Water Years (16%)	0	2	273	147	258	60	0	0	0	0	0	0

Table F.2.2-10-2c. Fremont Weir Spills, Alt2woTUCPDeltaVA minus NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	37	-410	85	-189	-86	-6	0	0	0	0	0
20% Exceedance	0	0	276	124	-16	-242	0	0	0	0	0	0
30% Exceedance	0	0	3	33	63	78	0	0	0	0	0	0
40% Exceedance	0	0	16	-2	1	-9	0	0	0	0	0	0
50% Exceedance	0	0	-3	35	255	0	0	0	0	0	0	0
60% Exceedance	0	0	-2	5	1	41	0	0	0	0	0	0
70% Exceedance	0	0	0	13	2	-4	0	0	0	0	0	0
80% Exceedance	0	0	0	-1	-5	4	0	0	0	0	0	0
90% Exceedance	0	0	0	2	-1	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-3	1	58	70	61	-81	-1	0	0	0	0	0
Wet Water Years (28%)	0	6	11	98	117	-5	-2	0	0	0	0	0
Above Normal Water Years (14%)	0	-18	-21	288	30	-588	-2	0	0	0	0	0
Below Normal Water Years (18%)	0	10	10	3	10	10	0	0	0	0	0	0
Dry Water Years (24%)	-13	0	236	5	94	3	0	0	0	0	0	0
Critical Water Years (16%)	0	0	-3	2	-3	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-3a. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-3b. Fremont Weir Spills, Alt2woTUCPAIIA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	209	10,651	27,163	50,860	20,610	20	0	0	0	0	0
20% Exceedance	0	18	3,187	9,861	16,930	5,534	0	0	0	0	0	0
30% Exceedance	0	5	1,009	2,579	6,414	2,767	0	0	0	0	0	0
40% Exceedance	0	0	222	1,614	3,391	1,082	0	0	0	0	0	0
50% Exceedance	0	0	101	799	1,695	451	0	0	0	0	0	0
60% Exceedance	0	0	17	205	634	205	0	0	0	0	0	0
70% Exceedance	0	0	4	66	252	59	0	0	0	0	0	0
80% Exceedance	0	0	0	14	69	15	0	0	0	0	0	0
90% Exceedance	0	0	0	7	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	47	264	3,664	9,064	13,726	7,216	951	9	0	0	0	0
Wet Water Years (28%)	0	474	4,929	27,084	39,498	21,385	3,390	11	0	0	0	0
Above Normal Water Years (14%)	0	334	1,367	8,200	12,799	7,134	0	0	0	0	0	0
Below Normal Water Years (18%)	0	66	3,685	1,408	1,587	683	12	35	0	0	0	0
Dry Water Years (24%)	197	290	5,725	232	2,281	403	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	147	259	59	0	0	0	0	0	0

Table F.2.2-10-3c. Fremont Weir Spills, Alt2woTUCPAIIA minus NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	67	-632	31	-217	-431	-6	0	0	0	0	0
20% Exceedance	0	0	365	0	552	-367	0	0	0	0	0	0
30% Exceedance	0	0	2	21	78	67	0	0	0	0	0	0
40% Exceedance	0	0	22	-36	-50	-19	0	0	0	0	0	0
50% Exceedance	0	0	-3	34	211	-1	0	0	0	0	0	0
60% Exceedance	0	0	-2	3	1	26	0	0	0	0	0	0
70% Exceedance	0	0	-1	13	-8	-4	0	0	0	0	0	0
80% Exceedance	0	0	0	-2	2	1	0	0	0	0	0	0
90% Exceedance	0	0	0	2	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-1	13	66	67	44	-128	-2	-2	0	0	0	0
Wet Water Years (28%)	0	5	11	58	-10	-158	-8	0	0	0	0	0
Above Normal Water Years (14%)	0	-5	-31	353	23	-612	-2	0	0	0	0	0
Below Normal Water Years (18%)	0	18	-46	1	32	8	0	-8	0	0	0	0
Dry Water Years (24%)	-5	41	316	3	158	3	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	2	-2	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-4a. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-4b. Fremont Weir Spills, Alt2wTUCPwoVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	180	11,166	27,295	50,889	21,177	21	0	0	0	0	0
20% Exceedance	0	17	2,919	9,983	17,977	5,907	0	0	0	0	0	0
30% Exceedance	0	6	1,010	2,597	6,745	2,779	0	0	0	0	0	0
40% Exceedance	0	0	222	1,677	3,447	1,090	0	0	0	0	0	0
50% Exceedance	0	0	101	803	1,740	450	0	0	0	0	0	0
60% Exceedance	0	0	18	245	636	232	0	0	0	0	0	0
70% Exceedance	0	0	5	67	262	69	0	0	0	0	0	0
80% Exceedance	0	0	0	19	68	19	0	0	0	0	0	0
90% Exceedance	0	0	0	7	13	0	0	0	0	0	0	0
Full Simulation Period Average ^a	45	260	3,703	9,172	13,814	7,334	955	11	0	0	0	0
Wet Water Years (28%)	0	477	4,940	27,432	39,743	21,545	3,397	11	0	0	0	0
Above Normal Water Years (14%)	0	340	1,388	8,233	12,869	7,646	1	0	0	0	0	0
Below Normal Water Years (18%)	0	53	3,826	1,422	1,643	690	21	43	0	0	0	0
Dry Water Years (24%)	189	272	5,757	242	2,278	404	0	0	0	0	0	0
Critical Water Years (16%)	0	2	275	149	263	58	0	0	0	0	0	0

Table F.2.2-10-4c. Fremont Weir Spills, Alt2wTUCPwoVA minus NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	38	-117	163	-188	136	-5	0	0	0	0	0
20% Exceedance	0	0	96	123	1,599	6	0	0	0	0	0	0
30% Exceedance	0	0	3	38	409	80	0	0	0	0	0	0
40% Exceedance	0	0	23	27	6	-10	0	0	0	0	0	0
50% Exceedance	0	0	-3	39	256	-2	0	0	0	0	0	0
60% Exceedance	0	0	-2	43	2	54	0	0	0	0	0	0
70% Exceedance	0	0	0	14	2	6	0	0	0	0	0	0
80% Exceedance	0	0	0	3	1	6	0	0	0	0	0	0
90% Exceedance	0	0	0	2	-1	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-3	9	105	175	133	-10	1	0	0	0	0	0
Wet Water Years (28%)	0	8	22	407	236	2	-1	0	0	0	0	0
Above Normal Water Years (14%)	0	1	-11	386	94	-100	-1	0	0	0	0	0
Below Normal Water Years (18%)	0	5	94	15	89	16	10	0	0	0	0	0
Dry Water Years (24%)	-14	22	348	13	156	5	0	0	0	0	0	0
Critical Water Years (16%)	0	0	0	4	2	-1	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-5a. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-5b. Fremont Weir Spills, EXP3, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	101	32,376	37,575	53,629	27,583	128	0	0	0	0	0
20% Exceedance	0	12	11,355	14,122	21,642	9,625	0	0	0	0	0	0
30% Exceedance	0	1	4,197	4,368	10,609	3,583	0	0	0	0	0	0
40% Exceedance	0	0	1,908	2,234	5,596	1,576	0	0	0	0	0	0
50% Exceedance	0	0	781	1,413	2,249	726	0	0	0	0	0	0
60% Exceedance	0	0	260	317	880	281	0	0	0	0	0	0
70% Exceedance	0	0	82	121	282	87	0	0	0	0	0	0
80% Exceedance	0	0	8	12	57	25	0	0	0	0	0	0
90% Exceedance	0	0	0	5	4	0	0	0	0	0	0	0
Full Simulation Period Average ^a	52	227	8,646	10,987	16,005	8,225	1,157	41	0	0	0	0
Wet Water Years (28%)	0	356	11,126	31,721	42,403	21,759	3,980	19	0	0	0	0
Above Normal Water Years (14%)	0	395	6,273	11,445	17,753	10,972	2	0	0	0	0	0
Below Normal Water Years (18%)	0	42	10,566	2,174	3,342	1,388	168	200	0	0	0	0
Dry Water Years (24%)	215	251	10,983	338	4,172	1,407	51	0	0	0	0	0
Critical Water Years (16%)	0	2	348	188	273	53	0	0	0	0	0	0

Table F.2.2-10-5c. Fremont Weir Spills, EXP3 minus NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-41	21,092	10,443	2,552	6,542	102	0	0	0	0	0
20% Exceedance	0	-6	8,533	4,262	5,264	3,724	0	0	0	0	0	0
30% Exceedance	0	-5	3,190	1,810	4,273	883	0	0	0	0	0	0
40% Exceedance	0	0	1,709	583	2,155	476	0	0	0	0	0	0
50% Exceedance	0	0	677	648	765	274	0	0	0	0	0	0
60% Exceedance	0	0	240	115	247	103	0	0	0	0	0	0
70% Exceedance	0	0	77	68	23	24	0	0	0	0	0	0
80% Exceedance	0	0	8	-4	-10	12	0	0	0	0	0	0
90% Exceedance	0	0	0	0	-10	0	0	0	0	0	0	0
Full Simulation Period Average ^a	3	-24	5,048	1,989	2,323	882	203	30	0	0	0	0
Wet Water Years (28%)	0	-113	6,208	4,696	2,895	216	581	7	0	0	0	0
Above Normal Water Years (14%)	0	57	4,875	3,598	4,977	3,226	1	0	0	0	0	0
Below Normal Water Years (18%)	0	-6	6,834	767	1,788	714	156	157	0	0	0	0
Dry Water Years (24%)	12	2	5,574	109	2,049	1,008	51	0	0	0	0	0
Critical Water Years (16%)	0	0	72	43	13	-6	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-6a. Fremont Weir Spills, EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	800	18,833	42,764	48,514	26,594	5,736	0	0	0	0	0
20% Exceedance	0	69	11,970	16,294	24,802	14,364	1,028	0	0	0	0	0
30% Exceedance	0	9	2,090	6,032	15,129	6,420	5	0	0	0	0	0
40% Exceedance	0	0	976	3,241	7,731	2,815	0	0	0	0	0	0
50% Exceedance	0	0	286	2,244	4,095	1,876	0	0	0	0	0	0
60% Exceedance	0	0	60	650	2,144	985	0	0	0	0	0	0
70% Exceedance	0	0	5	132	890	454	0	0	0	0	0	0
80% Exceedance	0	0	0	27	262	123	0	0	0	0	0	0
90% Exceedance	0	0	0	7	44	29	0	0	0	0	0	0
Full Simulation Period Average ^a	140	640	5,970	11,886	16,642	9,677	2,342	134	0	0	0	0
Wet Water Years (28%)	0	522	6,109	32,165	41,219	23,447	7,541	303	0	0	0	0
Above Normal Water Years (14%)	0	1,288	3,478	14,714	18,590	13,243	566	0	0	0	0	0
Below Normal Water Years (18%)	0	208	7,770	3,326	4,416	3,539	632	274	0	0	0	0
Dry Water Years (24%)	584	1,088	8,844	647	6,552	2,383	156	0	0	0	0	0
Critical Water Years (16%)	0	13	1,441	409	817	306	0	0	0	0	0	0

Table F.2.2-10-6b. Fremont Weir Spills, Alt2woTUCPwoVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	180	10,951	27,274	50,902	21,124	20	0	0	0	0	0
20% Exceedance	0	17	2,919	9,977	16,341	5,655	0	0	0	0	0	0
30% Exceedance	0	6	1,009	2,591	6,395	2,283	0	0	0	0	0	0
40% Exceedance	0	0	222	1,651	3,443	1,089	0	0	0	0	0	0
50% Exceedance	0	0	101	805	1,740	455	0	0	0	0	0	0
60% Exceedance	0	0	15	246	636	228	0	0	0	0	0	0
70% Exceedance	0	0	5	82	262	69	0	0	0	0	0	0
80% Exceedance	0	0	0	19	68	20	0	0	0	0	0	0
90% Exceedance	0	0	0	7	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	45	260	3,700	9,117	13,768	7,261	953	11	0	0	0	0
Wet Water Years (28%)	0	477	4,941	27,317	39,698	21,540	3,396	11	0	0	0	0
Above Normal Water Years (14%)	0	339	1,386	8,078	12,824	7,134	1	0	0	0	0	0
Below Normal Water Years (18%)	0	55	3,811	1,416	1,607	688	12	43	0	0	0	0
Dry Water Years (24%)	189	272	5,754	242	2,191	405	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	151	264	61	0	0	0	0	0	0

Table F.2.2-10-6c. Fremont Weir Spills, Alt2woTUCPwoVA minus EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-620	-7,882	-15,490	2,388	-5,470	-5,715	0	0	0	0	0
20% Exceedance	0	-52	-9,050	-6,317	-8,461	-8,710	-1,028	0	0	0	0	0
30% Exceedance	0	-3	-1,081	-3,442	-8,734	-4,138	-5	0	0	0	0	0
40% Exceedance	0	0	-754	-1,590	-4,288	-1,726	0	0	0	0	0	0
50% Exceedance	0	0	-186	-1,439	-2,355	-1,421	0	0	0	0	0	0
60% Exceedance	0	0	-45	-404	-1,508	-757	0	0	0	0	0	0
70% Exceedance	0	0	0	-50	-629	-385	0	0	0	0	0	0
80% Exceedance	0	0	0	-8	-194	-103	0	0	0	0	0	0
90% Exceedance	0	0	0	0	-30	-29	0	0	0	0	0	0
Full Simulation Period Average ^a	-95	-380	-2,270	-2,769	-2,874	-2,416	-1,389	-123	0	0	0	0
Wet Water Years (28%)	0	-45	-1,168	-4,849	-1,520	-1,906	-4,145	-291	0	0	0	0
Above Normal Water Years (14%)	0	-948	-2,092	-6,636	-5,765	-6,109	-565	0	0	0	0	0
Below Normal Water Years (18%)	0	-153	-3,959	-1,910	-2,809	-2,852	-620	-231	0	0	0	0
Dry Water Years (24%)	-395	-817	-3,090	-405	-4,361	-1,978	-156	0	0	0	0	0
Critical Water Years (16%)	0	-12	-1,164	-258	-553	-245	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-7a. Fremont Weir Spills, EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	800	18,833	42,764	48,514	26,594	5,736	0	0	0	0	0
20% Exceedance	0	69	11,970	16,294	24,802	14,364	1,028	0	0	0	0	0
30% Exceedance	0	9	2,090	6,032	15,129	6,420	5	0	0	0	0	0
40% Exceedance	0	0	976	3,241	7,731	2,815	0	0	0	0	0	0
50% Exceedance	0	0	286	2,244	4,095	1,876	0	0	0	0	0	0
60% Exceedance	0	0	60	650	2,144	985	0	0	0	0	0	0
70% Exceedance	0	0	5	132	890	454	0	0	0	0	0	0
80% Exceedance	0	0	0	27	262	123	0	0	0	0	0	0
90% Exceedance	0	0	0	7	44	29	0	0	0	0	0	0
Full Simulation Period Average ^a	140	640	5,970	11,886	16,642	9,677	2,342	134	0	0	0	0
Wet Water Years (28%)	0	522	6,109	32,165	41,219	23,447	7,541	303	0	0	0	0
Above Normal Water Years (14%)	0	1,288	3,478	14,714	18,590	13,243	566	0	0	0	0	0
Below Normal Water Years (18%)	0	208	7,770	3,326	4,416	3,539	632	274	0	0	0	0
Dry Water Years (24%)	584	1,088	8,844	647	6,552	2,383	156	0	0	0	0	0
Critical Water Years (16%)	0	13	1,441	409	817	306	0	0	0	0	0	0

Table F.2.2-10-7b. Fremont Weir Spills, Alt2woTUCPDeltaVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	179	10,874	27,216	50,888	20,956	20	0	0	0	0	0
20% Exceedance	0	17	3,098	9,985	16,362	5,659	0	0	0	0	0	0
30% Exceedance	0	5	1,010	2,591	6,399	2,778	0	0	0	0	0	0
40% Exceedance	0	0	215	1,649	3,443	1,092	0	0	0	0	0	0
50% Exceedance	0	0	101	799	1,739	451	0	0	0	0	0	0
60% Exceedance	0	0	17	207	634	220	0	0	0	0	0	0
70% Exceedance	0	0	4	66	261	59	0	0	0	0	0	0
80% Exceedance	0	0	0	15	63	18	0	0	0	0	0	0
90% Exceedance	0	0	0	7	13	0	0	0	0	0	0	0
Full Simulation Period Average ^a	46	252	3,656	9,067	13,742	7,262	953	11	0	0	0	0
Wet Water Years (28%)	0	475	4,929	27,124	39,624	21,537	3,396	11	0	0	0	0
Above Normal Water Years (14%)	0	320	1,378	8,134	12,806	7,158	0	0	0	0	0	0
Below Normal Water Years (18%)	0	58	3,742	1,410	1,565	685	12	43	0	0	0	0
Dry Water Years (24%)	190	250	5,645	234	2,217	402	0	0	0	0	0	0
Critical Water Years (16%)	0	2	273	147	258	60	0	0	0	0	0	0

Table F.2.2-10-7c. Fremont Weir Spills, Alt2woTUCPDeltaVA minus EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-621	-7,959	-15,548	2,374	-5,639	-5,716	0	0	0	0	0
20% Exceedance	0	-52	-8,872	-6,309	-8,440	-8,706	-1,028	0	0	0	0	0
30% Exceedance	0	-4	-1,080	-3,441	-8,730	-3,642	-5	0	0	0	0	0
40% Exceedance	0	0	-761	-1,592	-4,288	-1,724	0	0	0	0	0	0
50% Exceedance	0	0	-186	-1,445	-2,356	-1,425	0	0	0	0	0	0
60% Exceedance	0	0	-43	-443	-1,509	-765	0	0	0	0	0	0
70% Exceedance	0	0	0	-66	-629	-395	0	0	0	0	0	0
80% Exceedance	0	0	0	-12	-200	-105	0	0	0	0	0	0
90% Exceedance	0	0	0	0	-31	-29	0	0	0	0	0	0
Full Simulation Period Average ^a	-95	-388	-2,314	-2,819	-2,899	-2,415	-1,389	-123	0	0	0	0
Wet Water Years (28%)	0	-47	-1,180	-5,042	-1,595	-1,909	-4,145	-291	0	0	0	0
Above Normal Water Years (14%)	0	-967	-2,100	-6,579	-5,784	-6,085	-566	0	0	0	0	0
Below Normal Water Years (18%)	0	-150	-4,028	-1,916	-2,852	-2,855	-620	-231	0	0	0	0
Dry Water Years (24%)	-394	-838	-3,200	-413	-4,335	-1,981	-156	0	0	0	0	0
Critical Water Years (16%)	0	-12	-1,167	-262	-560	-247	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-8a. Fremont Weir Spills, EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	800	18,833	42,764	48,514	26,594	5,736	0	0	0	0	0
20% Exceedance	0	69	11,970	16,294	24,802	14,364	1,028	0	0	0	0	0
30% Exceedance	0	9	2,090	6,032	15,129	6,420	5	0	0	0	0	0
40% Exceedance	0	0	976	3,241	7,731	2,815	0	0	0	0	0	0
50% Exceedance	0	0	286	2,244	4,095	1,876	0	0	0	0	0	0
60% Exceedance	0	0	60	650	2,144	985	0	0	0	0	0	0
70% Exceedance	0	0	5	132	890	454	0	0	0	0	0	0
80% Exceedance	0	0	0	27	262	123	0	0	0	0	0	0
90% Exceedance	0	0	0	7	44	29	0	0	0	0	0	0
Full Simulation Period Average ^a	140	640	5,970	11,886	16,642	9,677	2,342	134	0	0	0	0
Wet Water Years (28%)	0	522	6,109	32,165	41,219	23,447	7,541	303	0	0	0	0
Above Normal Water Years (14%)	0	1,288	3,478	14,714	18,590	13,243	566	0	0	0	0	0
Below Normal Water Years (18%)	0	208	7,770	3,326	4,416	3,539	632	274	0	0	0	0
Dry Water Years (24%)	584	1,088	8,844	647	6,552	2,383	156	0	0	0	0	0
Critical Water Years (16%)	0	13	1,441	409	817	306	0	0	0	0	0	0

Table F.2.2-10-8b. Fremont Weir Spills, Alt2woTUCPAllVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	209	10,651	27,163	50,860	20,610	20	0	0	0	0	0
20% Exceedance	0	18	3,187	9,861	16,930	5,534	0	0	0	0	0	0
30% Exceedance	0	5	1,009	2,579	6,414	2,767	0	0	0	0	0	0
40% Exceedance	0	0	222	1,614	3,391	1,082	0	0	0	0	0	0
50% Exceedance	0	0	101	799	1,695	451	0	0	0	0	0	0
60% Exceedance	0	0	17	205	634	205	0	0	0	0	0	0
70% Exceedance	0	0	4	66	252	59	0	0	0	0	0	0
80% Exceedance	0	0	0	14	69	15	0	0	0	0	0	0
90% Exceedance	0	0	0	7	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	47	264	3,664	9,064	13,726	7,216	951	9	0	0	0	0
Wet Water Years (28%)	0	474	4,929	27,084	39,498	21,385	3,390	11	0	0	0	0
Above Normal Water Years (14%)	0	334	1,367	8,200	12,799	7,134	0	0	0	0	0	0
Below Normal Water Years (18%)	0	66	3,685	1,408	1,587	683	12	35	0	0	0	0
Dry Water Years (24%)	197	290	5,725	232	2,281	403	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	147	259	59	0	0	0	0	0	0

Table F.2.2-10-8c. Fremont Weir Spills, Alt2woTUCPAllVA minus EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-591	-8,181	-15,601	2,346	-5,984	-5,716	0	0	0	0	0
20% Exceedance	0	-51	-8,783	-6,433	-7,872	-8,830	-1,028	0	0	0	0	0
30% Exceedance	0	-4	-1,081	-3,453	-8,715	-3,654	-5	0	0	0	0	0
40% Exceedance	0	0	-754	-1,627	-4,340	-1,733	0	0	0	0	0	0
50% Exceedance	0	0	-186	-1,445	-2,400	-1,425	0	0	0	0	0	0
60% Exceedance	0	0	-43	-445	-1,509	-781	0	0	0	0	0	0
70% Exceedance	0	0	-1	-66	-639	-395	0	0	0	0	0	0
80% Exceedance	0	0	0	-13	-193	-108	0	0	0	0	0	0
90% Exceedance	0	0	0	0	-30	-29	0	0	0	0	0	0
Full Simulation Period Average ^a	-93	-376	-2,306	-2,822	-2,916	-2,462	-1,390	-125	0	0	0	0
Wet Water Years (28%)	0	-48	-1,180	-5,082	-1,721	-2,061	-4,151	-291	0	0	0	0
Above Normal Water Years (14%)	0	-954	-2,111	-6,514	-5,791	-6,109	-566	0	0	0	0	0
Below Normal Water Years (18%)	0	-142	-4,085	-1,917	-2,830	-2,857	-620	-239	0	0	0	0
Dry Water Years (24%)	-387	-798	-3,120	-415	-4,271	-1,981	-156	0	0	0	0	0
Critical Water Years (16%)	0	-12	-1,165	-262	-559	-247	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-9a. Fremont Weir Spills, EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	800	18,833	42,764	48,514	26,594	5,736	0	0	0	0	0
20% Exceedance	0	69	11,970	16,294	24,802	14,364	1,028	0	0	0	0	0
30% Exceedance	0	9	2,090	6,032	15,129	6,420	5	0	0	0	0	0
40% Exceedance	0	0	976	3,241	7,731	2,815	0	0	0	0	0	0
50% Exceedance	0	0	286	2,244	4,095	1,876	0	0	0	0	0	0
60% Exceedance	0	0	60	650	2,144	985	0	0	0	0	0	0
70% Exceedance	0	0	5	132	890	454	0	0	0	0	0	0
80% Exceedance	0	0	0	27	262	123	0	0	0	0	0	0
90% Exceedance	0	0	0	7	44	29	0	0	0	0	0	0
Full Simulation Period Average ^a	140	640	5,970	11,886	16,642	9,677	2,342	134	0	0	0	0
Wet Water Years (28%)	0	522	6,109	32,165	41,219	23,447	7,541	303	0	0	0	0
Above Normal Water Years (14%)	0	1,288	3,478	14,714	18,590	13,243	566	0	0	0	0	0
Below Normal Water Years (18%)	0	208	7,770	3,326	4,416	3,539	632	274	0	0	0	0
Dry Water Years (24%)	584	1,088	8,844	647	6,552	2,383	156	0	0	0	0	0
Critical Water Years (16%)	0	13	1,441	409	817	306	0	0	0	0	0	0

Table F.2.2-10-9b. Fremont Weir Spills, Alt2wTUCPwoVA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	180	11,166	27,295	50,889	21,177	21	0	0	0	0	0
20% Exceedance	0	17	2,919	9,983	17,977	5,907	0	0	0	0	0	0
30% Exceedance	0	6	1,010	2,597	6,745	2,779	0	0	0	0	0	0
40% Exceedance	0	0	222	1,677	3,447	1,090	0	0	0	0	0	0
50% Exceedance	0	0	101	803	1,740	450	0	0	0	0	0	0
60% Exceedance	0	0	18	245	636	232	0	0	0	0	0	0
70% Exceedance	0	0	5	67	262	69	0	0	0	0	0	0
80% Exceedance	0	0	0	19	68	19	0	0	0	0	0	0
90% Exceedance	0	0	0	7	13	0	0	0	0	0	0	0
Full Simulation Period Average ^a	45	260	3,703	9,172	13,814	7,334	955	11	0	0	0	0
Wet Water Years (28%)	0	477	4,940	27,432	39,743	21,545	3,397	11	0	0	0	0
Above Normal Water Years (14%)	0	340	1,388	8,233	12,869	7,646	1	0	0	0	0	0
Below Normal Water Years (18%)	0	53	3,826	1,422	1,643	690	21	43	0	0	0	0
Dry Water Years (24%)	189	272	5,757	242	2,278	404	0	0	0	0	0	0
Critical Water Years (16%)	0	2	275	149	263	58	0	0	0	0	0	0

Table F.2.2-10-9c. Fremont Weir Spills, Alt2wTUCPwoVA minus EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-619	-7,666	-15,470	2,374	-5,418	-5,715	0	0	0	0	0
20% Exceedance	0	-52	-9,051	-6,310	-6,825	-8,458	-1,028	0	0	0	0	0
30% Exceedance	0	-3	-1,081	-3,435	-8,384	-3,641	-5	0	0	0	0	0
40% Exceedance	0	0	-753	-1,563	-4,284	-1,725	0	0	0	0	0	0
50% Exceedance	0	0	-186	-1,441	-2,355	-1,426	0	0	0	0	0	0
60% Exceedance	0	0	-42	-405	-1,508	-753	0	0	0	0	0	0
70% Exceedance	0	0	0	-65	-629	-385	0	0	0	0	0	0
80% Exceedance	0	0	0	-8	-195	-104	0	0	0	0	0	0
90% Exceedance	0	0	0	0	-31	-29	0	0	0	0	0	0
Full Simulation Period Average ^a	-95	-380	-2,267	-2,714	-2,828	-2,344	-1,387	-123	0	0	0	0
Wet Water Years (28%)	0	-45	-1,169	-4,733	-1,475	-1,902	-4,144	-291	0	0	0	0
Above Normal Water Years (14%)	0	-948	-2,090	-6,481	-5,720	-5,597	-565	0	0	0	0	0
Below Normal Water Years (18%)	0	-155	-3,944	-1,904	-2,773	-2,849	-611	-231	0	0	0	0
Dry Water Years (24%)	-395	-816	-3,087	-405	-4,274	-1,979	-156	0	0	0	0	0
Critical Water Years (16%)	0	-12	-1,165	-260	-555	-248	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-10-10a. Fremont Weir Spills, EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	800	18,833	42,764	48,514	26,594	5,736	0	0	0	0	0
20% Exceedance	0	69	11,970	16,294	24,802	14,364	1,028	0	0	0	0	0
30% Exceedance	0	9	2,090	6,032	15,129	6,420	5	0	0	0	0	0
40% Exceedance	0	0	976	3,241	7,731	2,815	0	0	0	0	0	0
50% Exceedance	0	0	286	2,244	4,095	1,876	0	0	0	0	0	0
60% Exceedance	0	0	60	650	2,144	985	0	0	0	0	0	0
70% Exceedance	0	0	5	132	890	454	0	0	0	0	0	0
80% Exceedance	0	0	0	27	262	123	0	0	0	0	0	0
90% Exceedance	0	0	0	7	44	29	0	0	0	0	0	0
Full Simulation Period Average ^a	140	640	5,970	11,886	16,642	9,677	2,342	134	0	0	0	0
Wet Water Years (28%)	0	522	6,109	32,165	41,219	23,447	7,541	303	0	0	0	0
Above Normal Water Years (14%)	0	1,288	3,478	14,714	18,590	13,243	566	0	0	0	0	0
Below Normal Water Years (18%)	0	208	7,770	3,326	4,416	3,539	632	274	0	0	0	0
Dry Water Years (24%)	584	1,088	8,844	647	6,552	2,383	156	0	0	0	0	0
Critical Water Years (16%)	0	13	1,441	409	817	306	0	0	0	0	0	0

Table F.2.2-10-10b. Fremont Weir Spills, NAA, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	142	11,284	27,132	51,077	21,041	26	0	0	0	0	0
20% Exceedance	0	17	2,822	9,861	16,378	5,901	0	0	0	0	0	0
30% Exceedance	0	5	1,007	2,559	6,336	2,700	0	0	0	0	0	0
40% Exceedance	0	0	199	1,651	3,442	1,100	0	0	0	0	0	0
50% Exceedance	0	0	104	765	1,484	452	0	0	0	0	0	0
60% Exceedance	0	0	19	202	633	178	0	0	0	0	0	0
70% Exceedance	0	0	5	53	259	63	0	0	0	0	0	0
80% Exceedance	0	0	0	17	67	13	0	0	0	0	0	0
90% Exceedance	0	0	0	5	14	0	0	0	0	0	0	0
Full Simulation Period Average ^a	49	251	3,598	8,997	13,682	7,343	954	11	0	0	0	0
Wet Water Years (28%)	0	469	4,918	27,025	39,507	21,543	3,398	12	0	0	0	0
Above Normal Water Years (14%)	0	339	1,398	7,847	12,776	7,746	2	0	0	0	0	0
Below Normal Water Years (18%)	0	48	3,731	1,407	1,554	675	12	43	0	0	0	0
Dry Water Years (24%)	203	250	5,409	229	2,123	400	0	0	0	0	0	0
Critical Water Years (16%)	0	2	276	145	260	59	0	0	0	0	0	0

Table F.2.2-10-10c. Fremont Weir Spills, NAA minus EXP1, Monthly Spills (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-658	-7,549	-15,633	2,563	-5,553	-5,710	0	0	0	0	0
20% Exceedance	0	-52	-9,147	-6,433	-8,424	-8,463	-1,028	0	0	0	0	0
30% Exceedance	0	-4	-1,083	-3,474	-8,793	-3,721	-5	0	0	0	0	0
40% Exceedance	0	0	-777	-1,590	-4,289	-1,715	0	0	0	0	0	0
50% Exceedance	0	0	-183	-1,479	-2,611	-1,424	0	0	0	0	0	0
60% Exceedance	0	0	-41	-448	-1,510	-807	0	0	0	0	0	0
70% Exceedance	0	0	0	-79	-631	-391	0	0	0	0	0	0
80% Exceedance	0	0	0	-11	-195	-110	0	0	0	0	0	0
90% Exceedance	0	0	0	-2	-30	-29	0	0	0	0	0	0
Full Simulation Period Average ^a	-92	-389	-2,372	-2,889	-2,960	-2,334	-1,388	-123	0	0	0	0
Wet Water Years (28%)	0	-53	-1,191	-5,140	-1,711	-1,904	-4,143	-291	0	0	0	0
Above Normal Water Years (14%)	0	-949	-2,080	-6,867	-5,814	-5,497	-564	0	0	0	0	0
Below Normal Water Years (18%)	0	-160	-4,039	-1,919	-2,862	-2,865	-620	-231	0	0	0	0
Dry Water Years (24%)	-382	-839	-3,436	-418	-4,429	-1,984	-156	0	0	0	0	0
Critical Water Years (16%)	0	-12	-1,165	-264	-557	-247	0	0	0	0	0	0

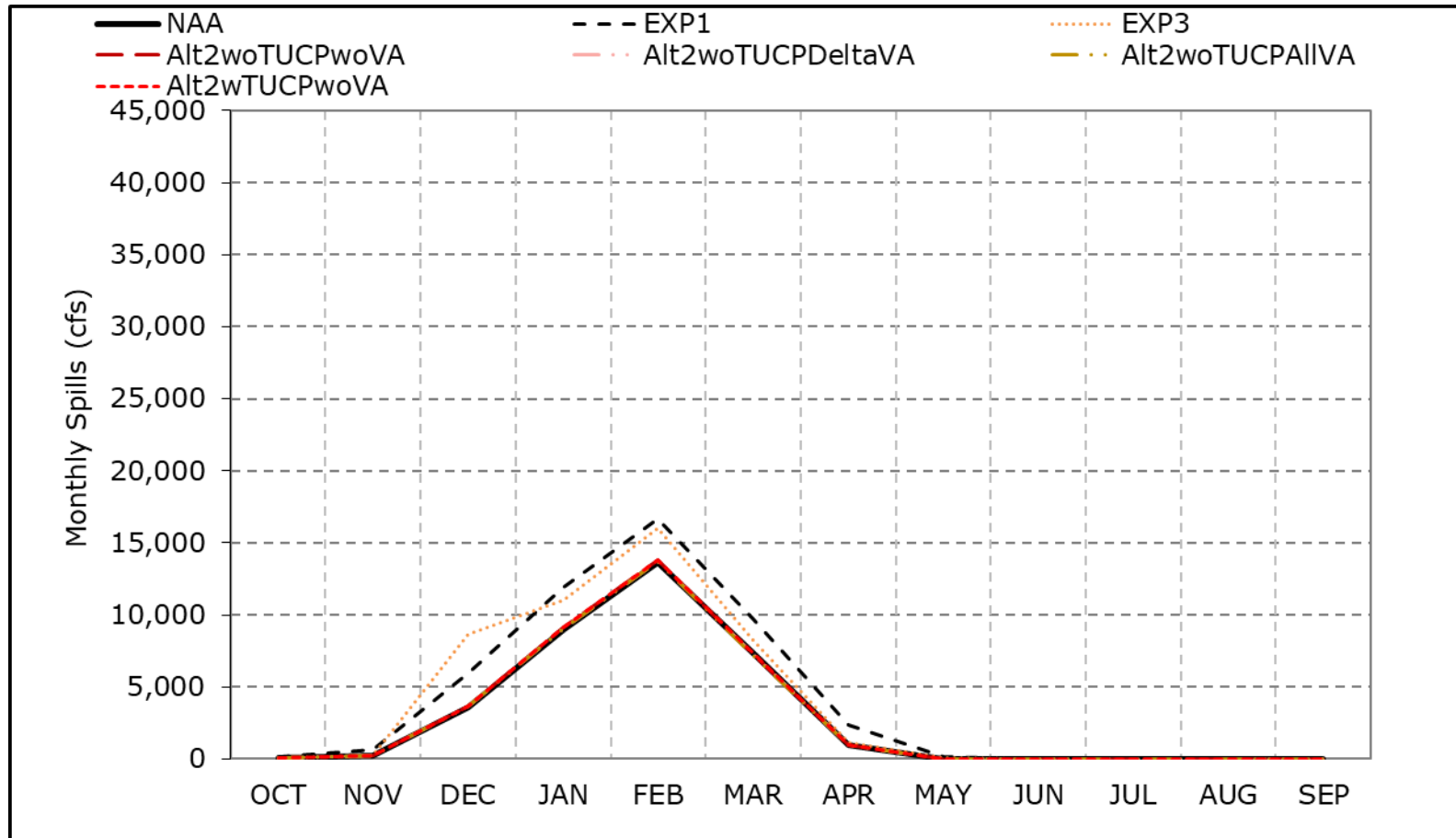
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-10-1. Fremont Weir Spills, Long-Term Average Spills

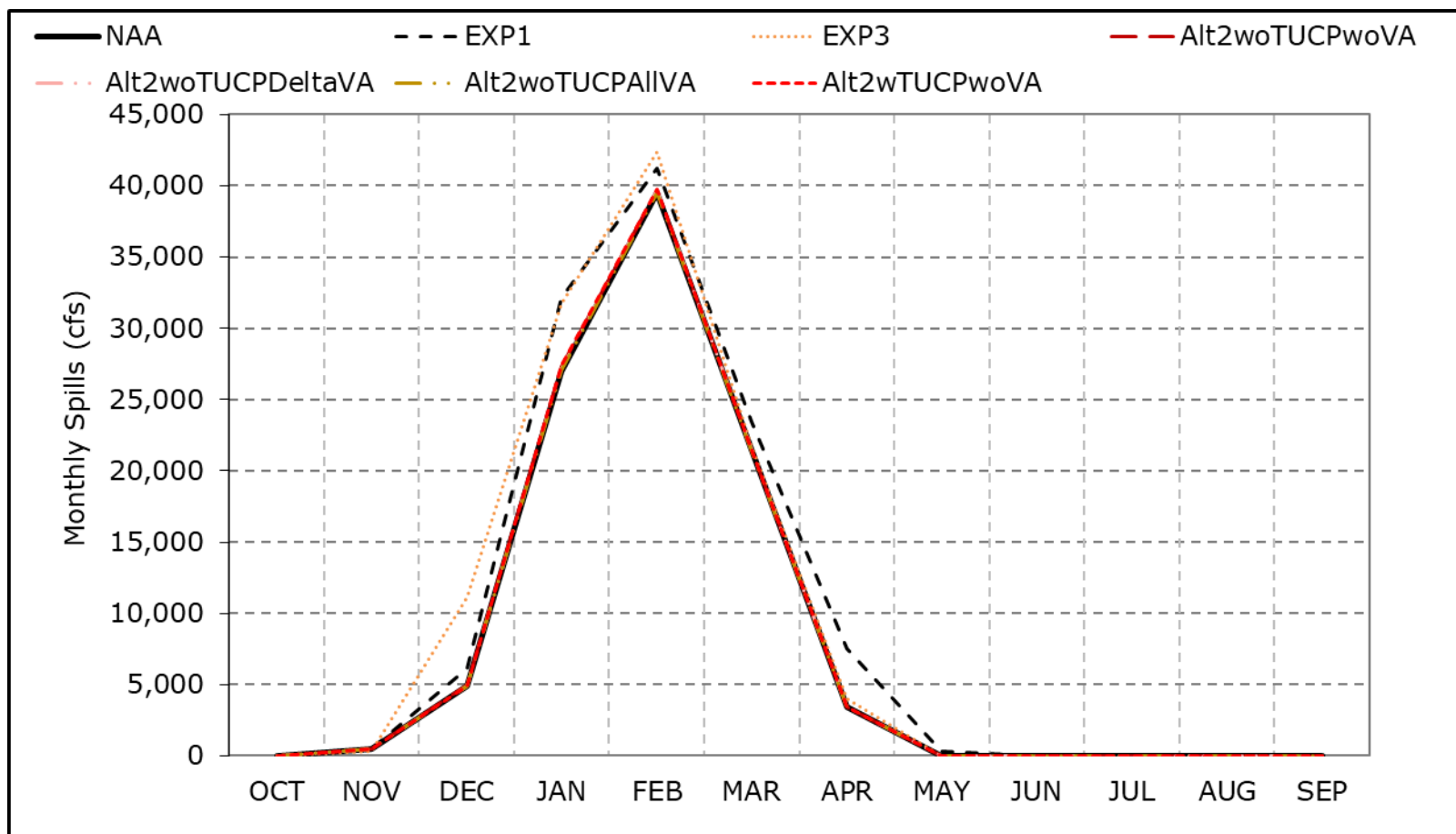


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-2. Fremont Weir Spills, Wet Year Average Spills

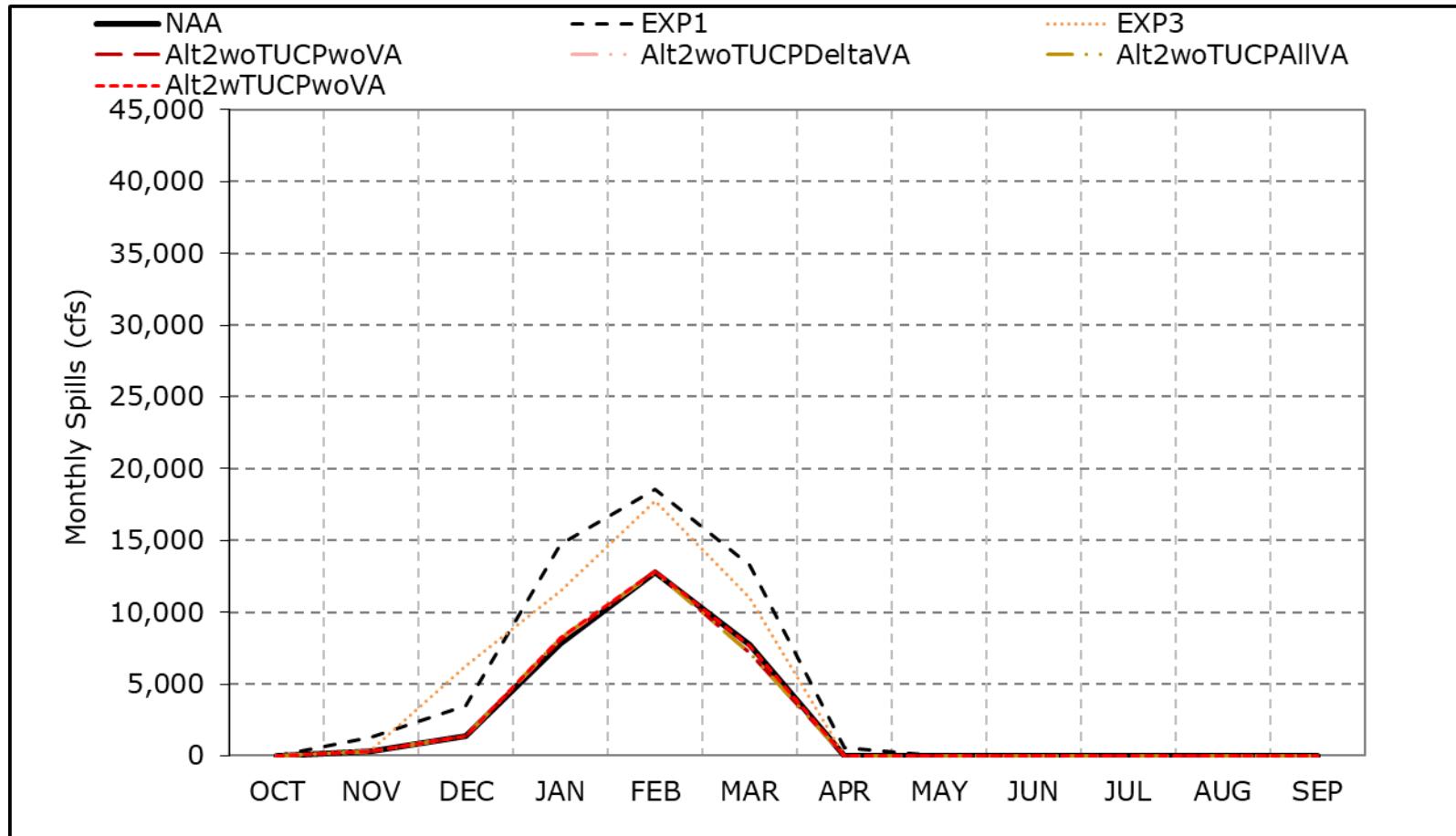


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-3. Fremont Weir Spills, Above Normal Year Average Spills

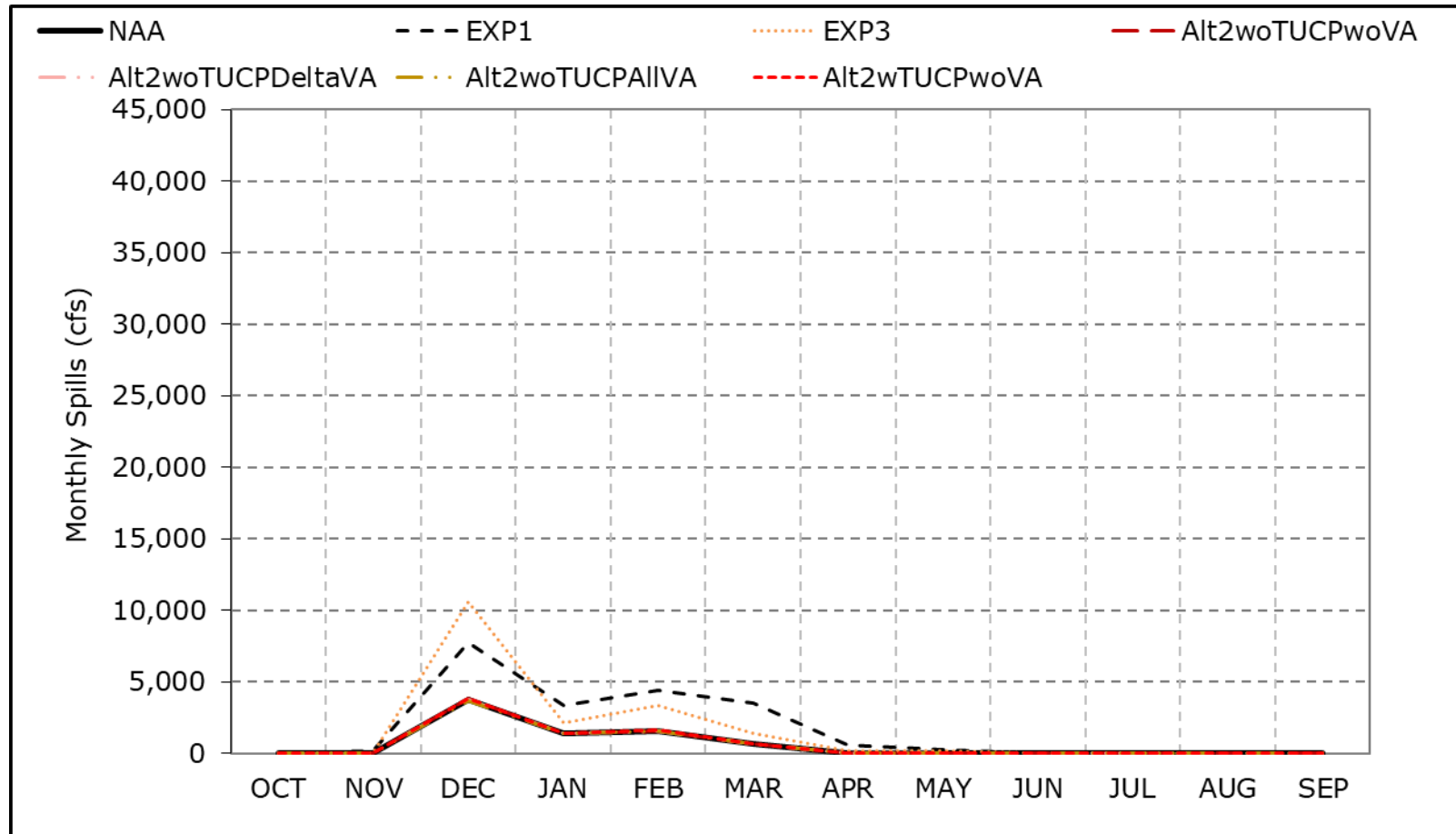


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-4. Fremont Weir Spills, Below Normal Year Average Spills

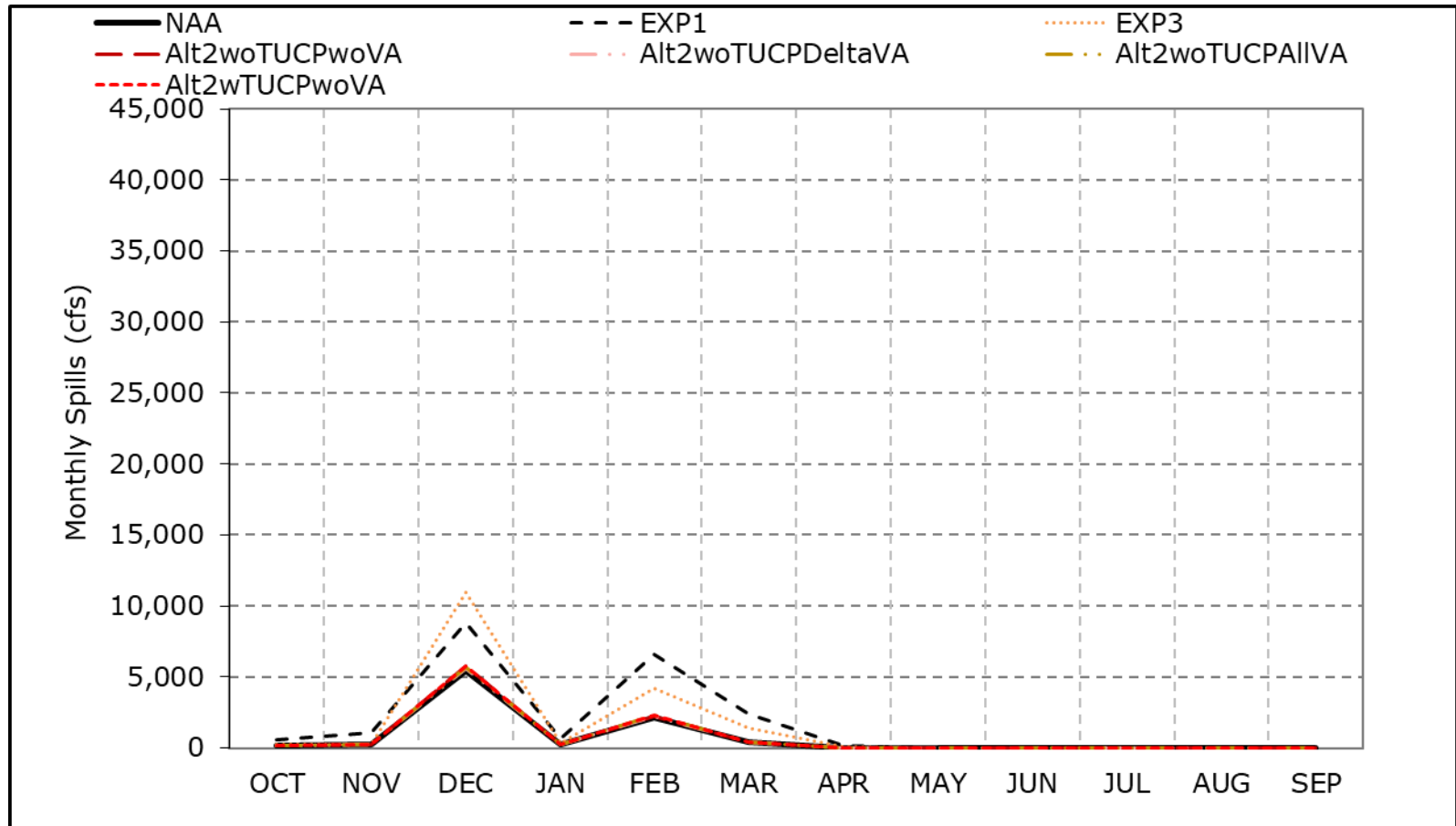


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-5. Fremont Weir Spills, Dry Year Average Spills

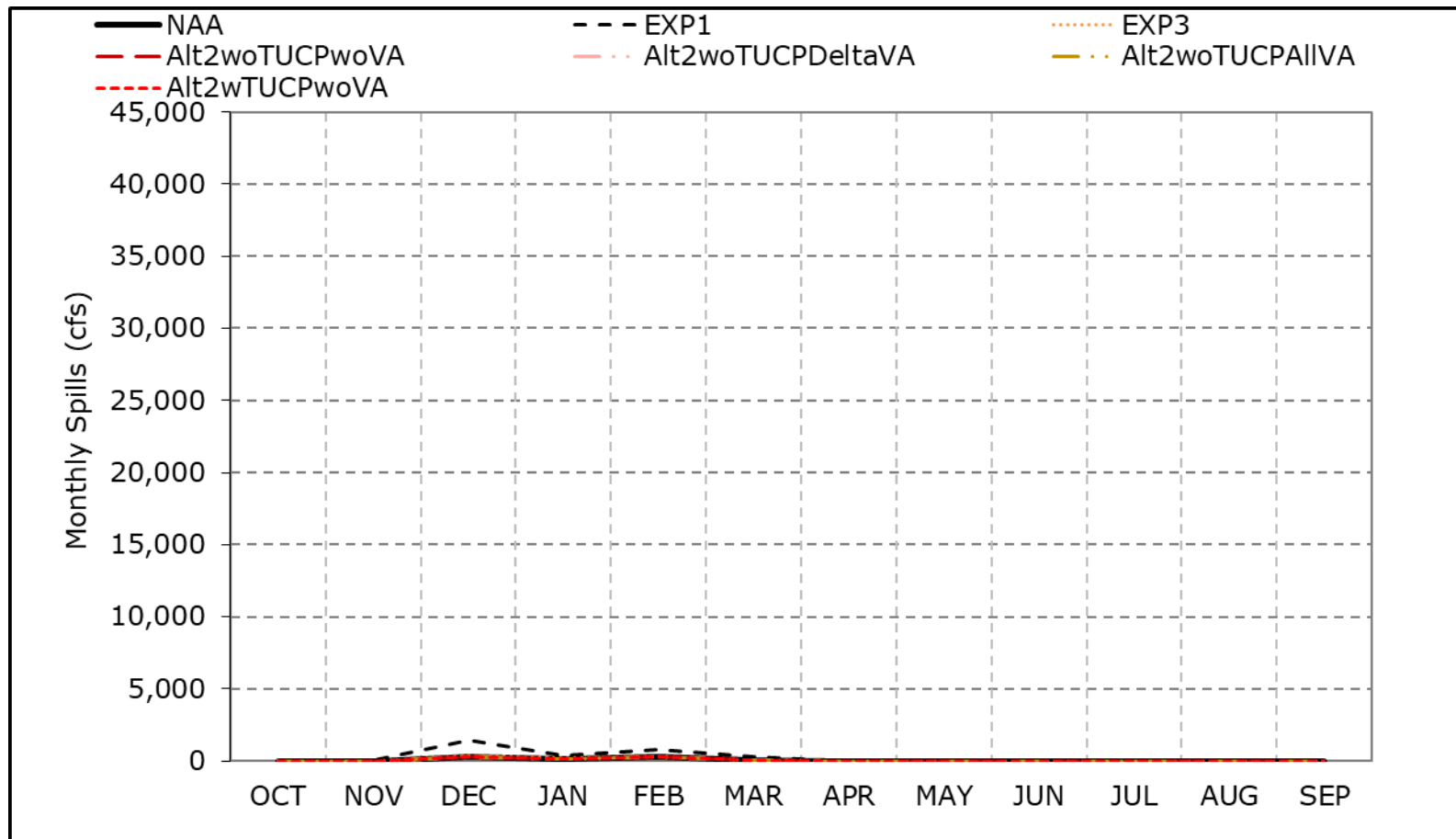


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-6. Fremont Weir Spills, Critical Year Average Spills

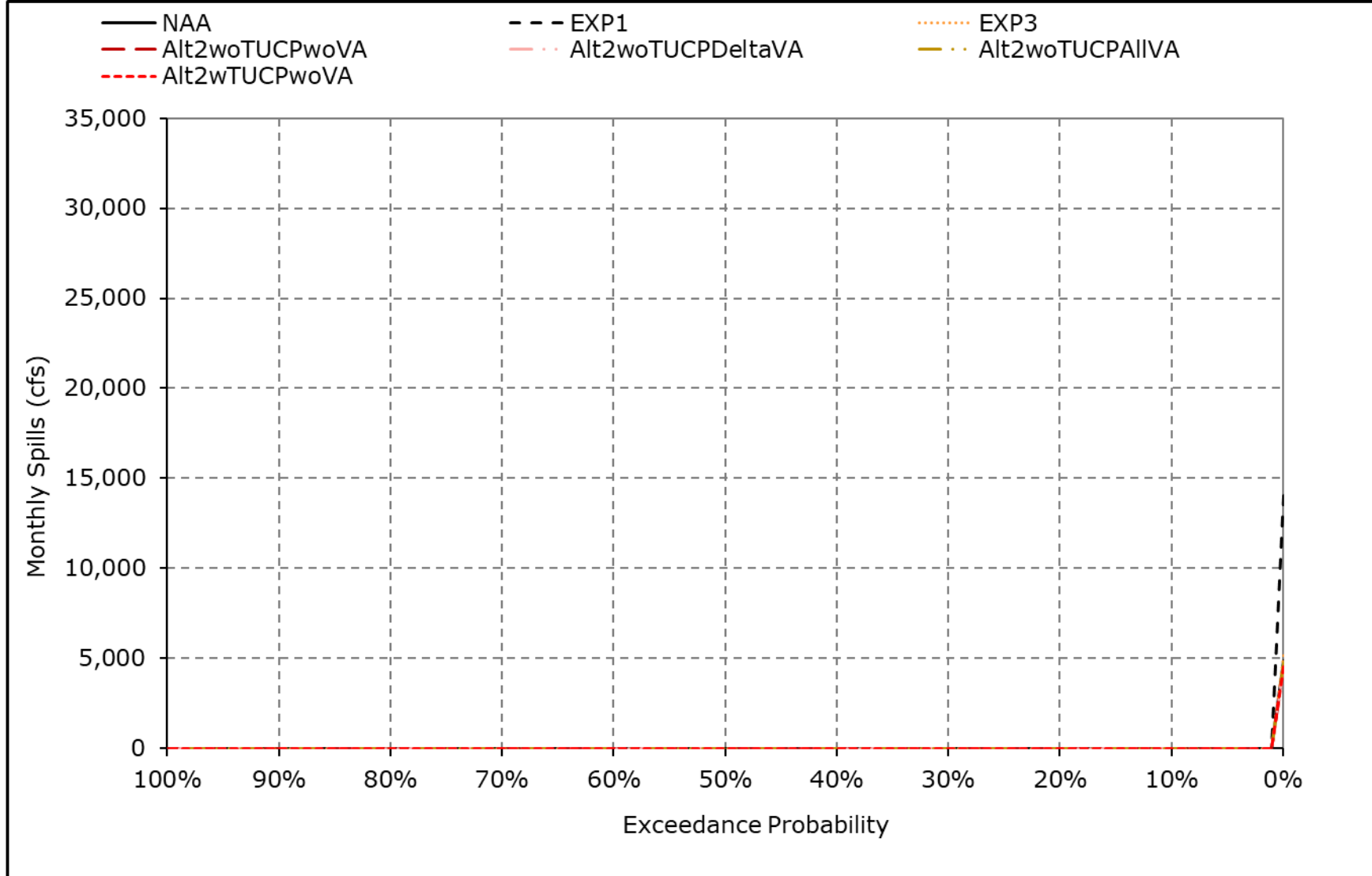


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

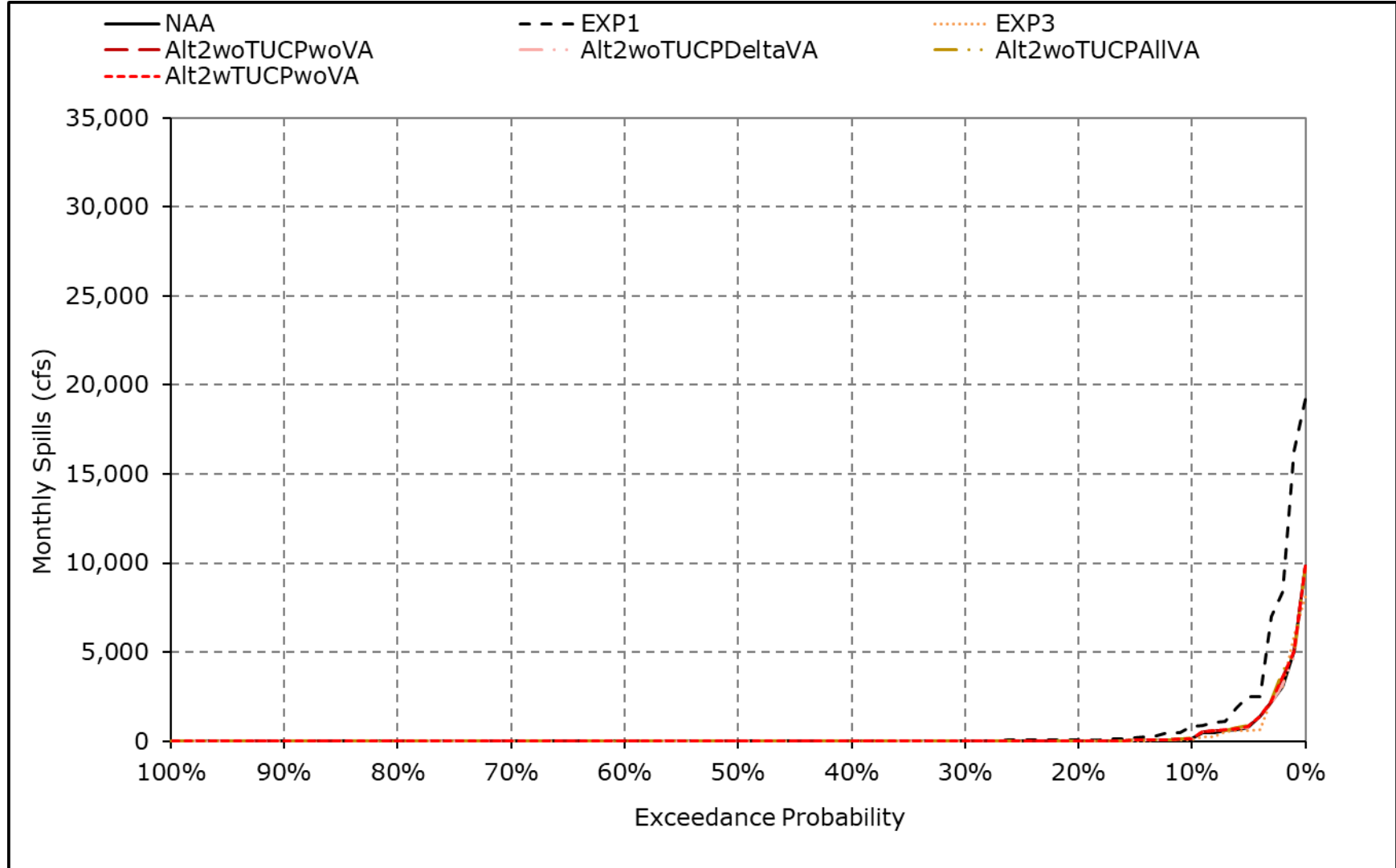
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-7. Fremont Weir Spills, October



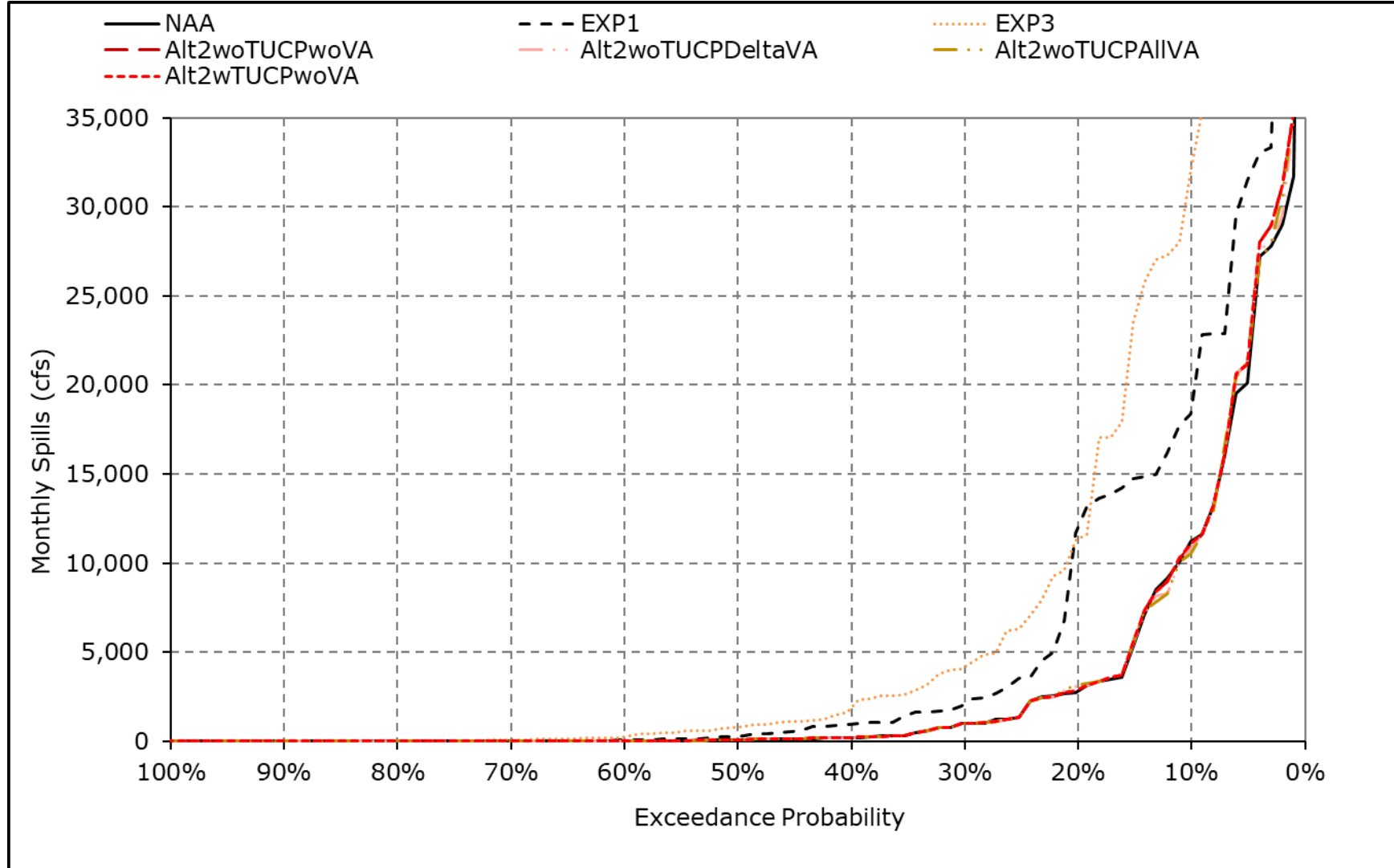
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-8. Fremont Weir Spills, November



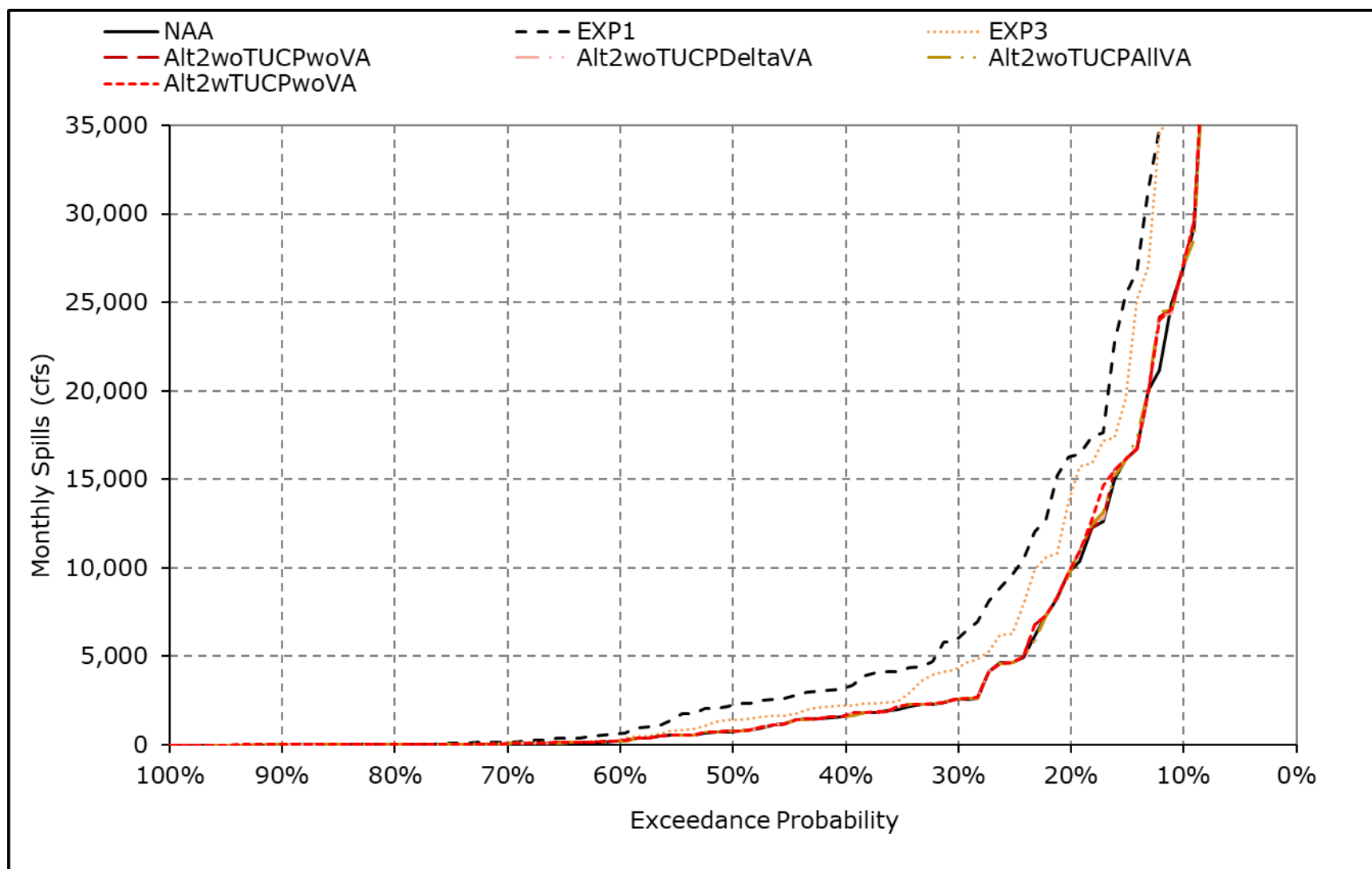
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-9. Fremont Weir Spills, December



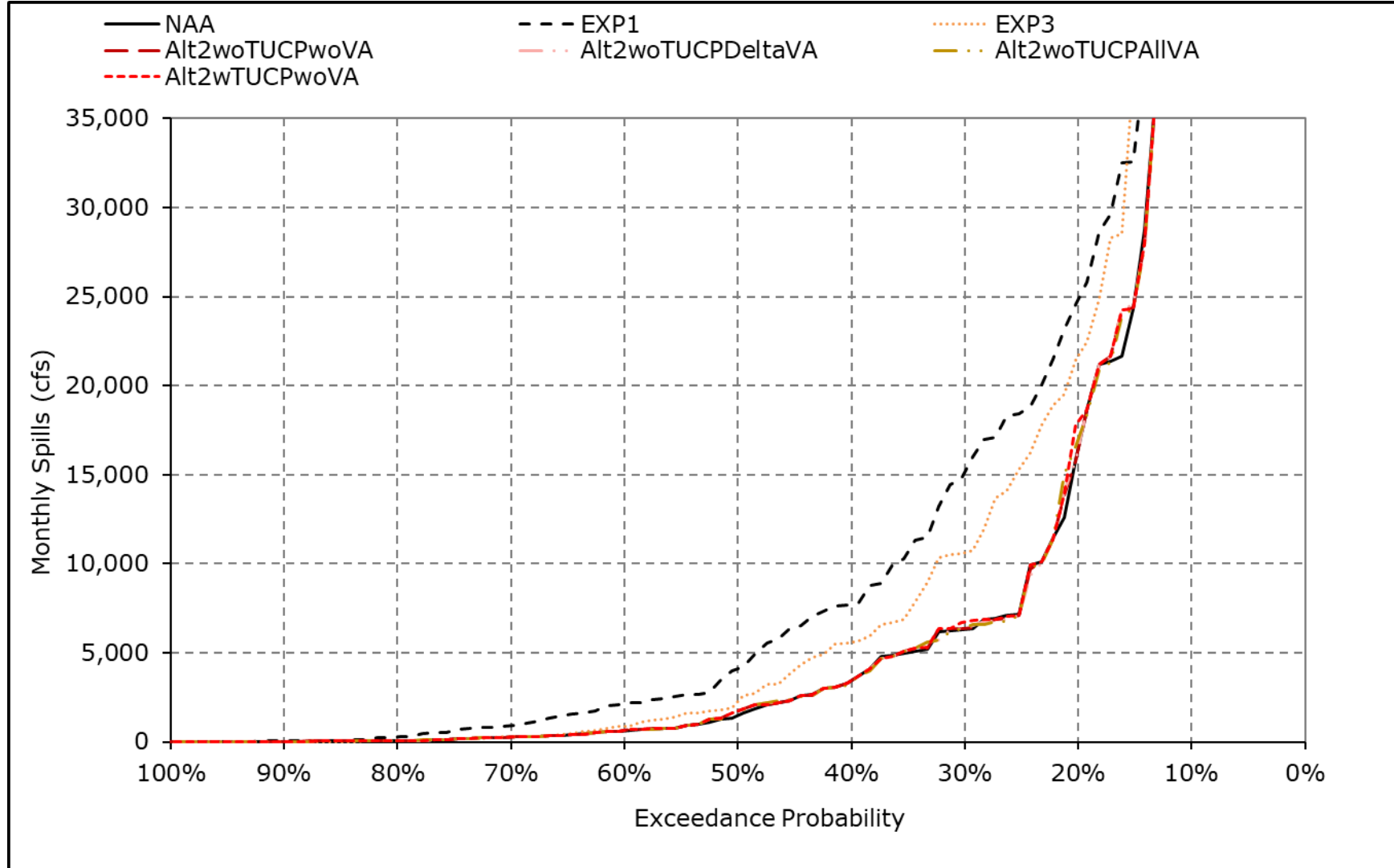
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-10. Fremont Weir Spills, January



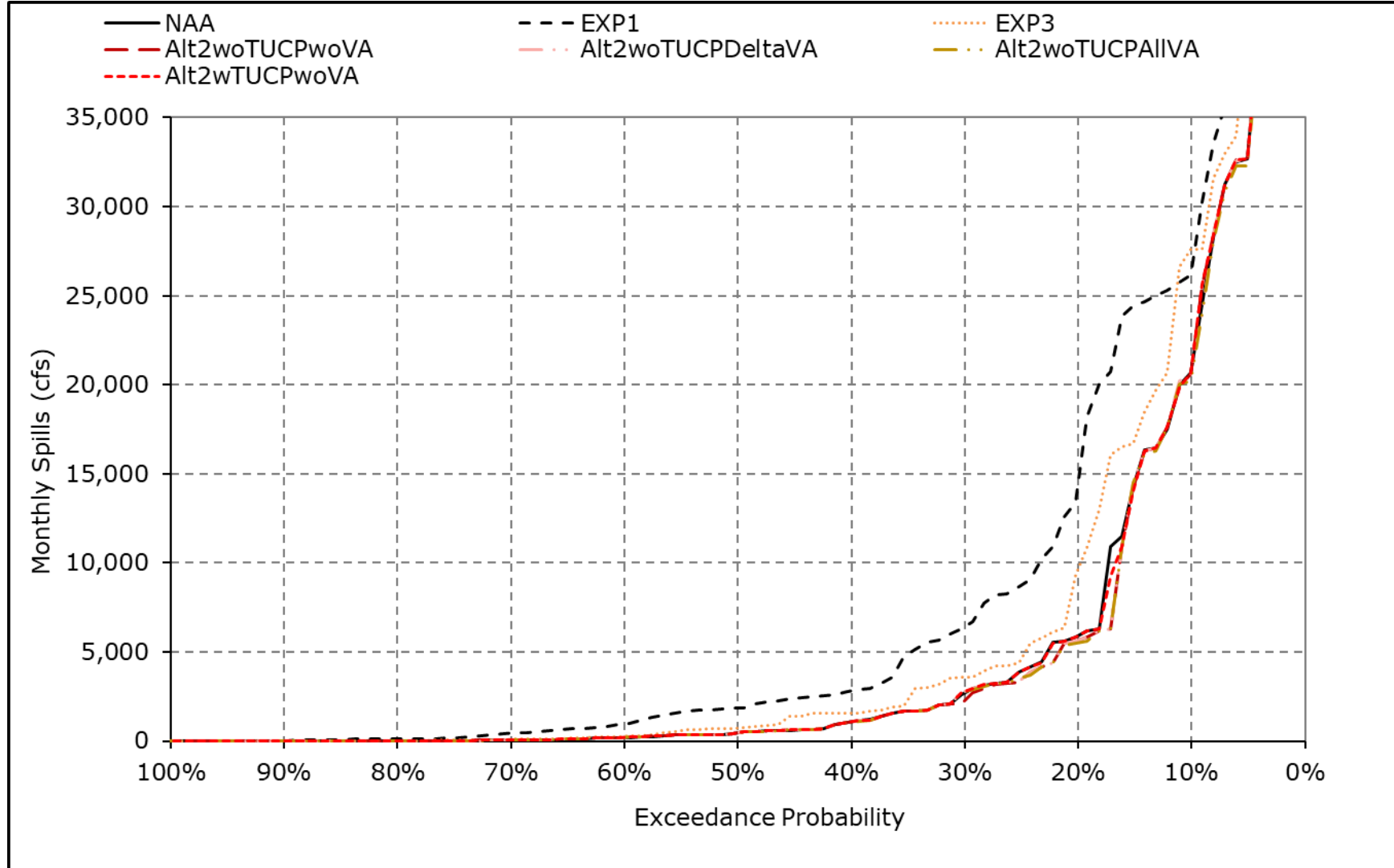
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-11. Fremont Weir Spills, February



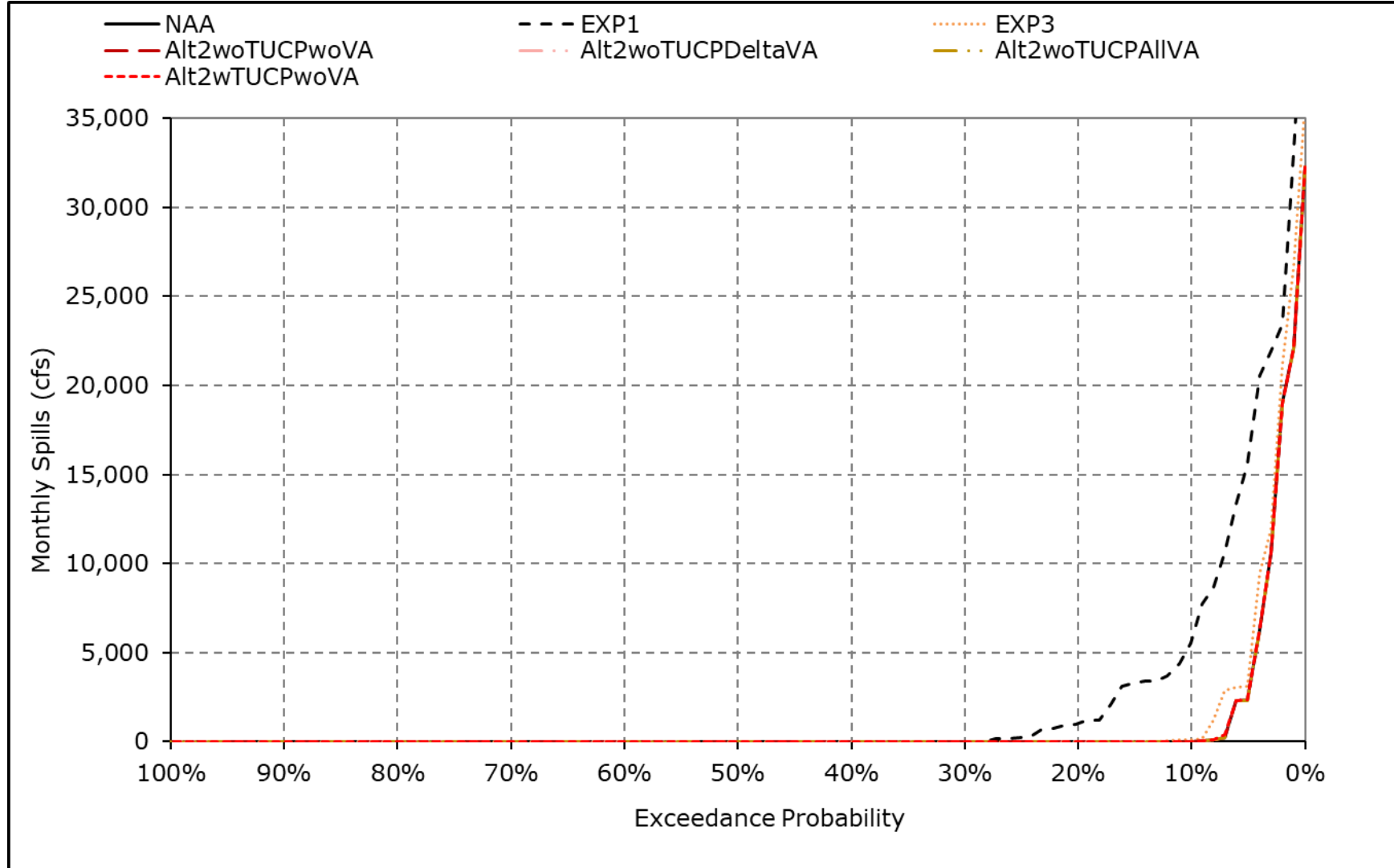
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-12. Fremont Weir Spills, March



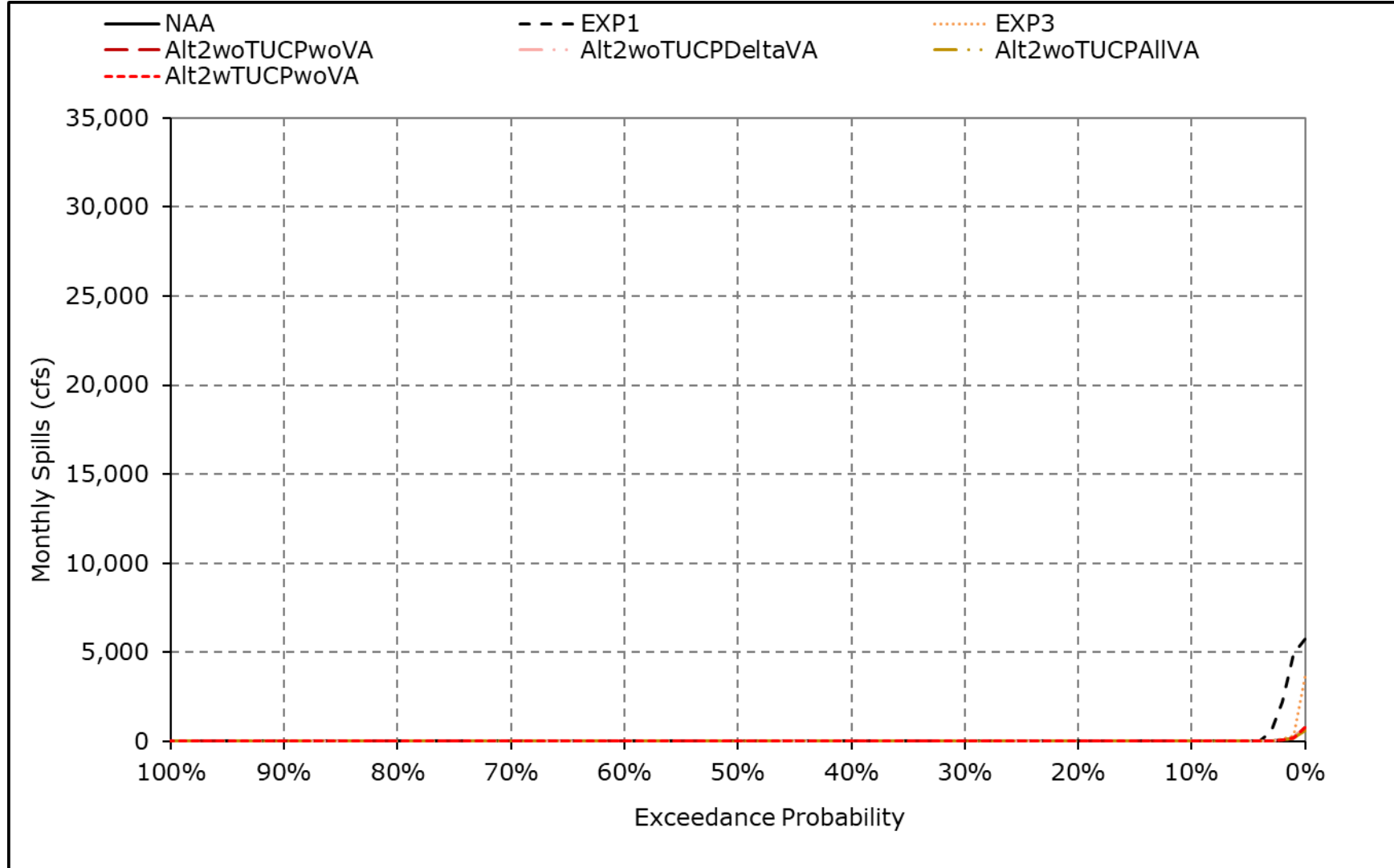
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-13. Fremont Weir Spills, April



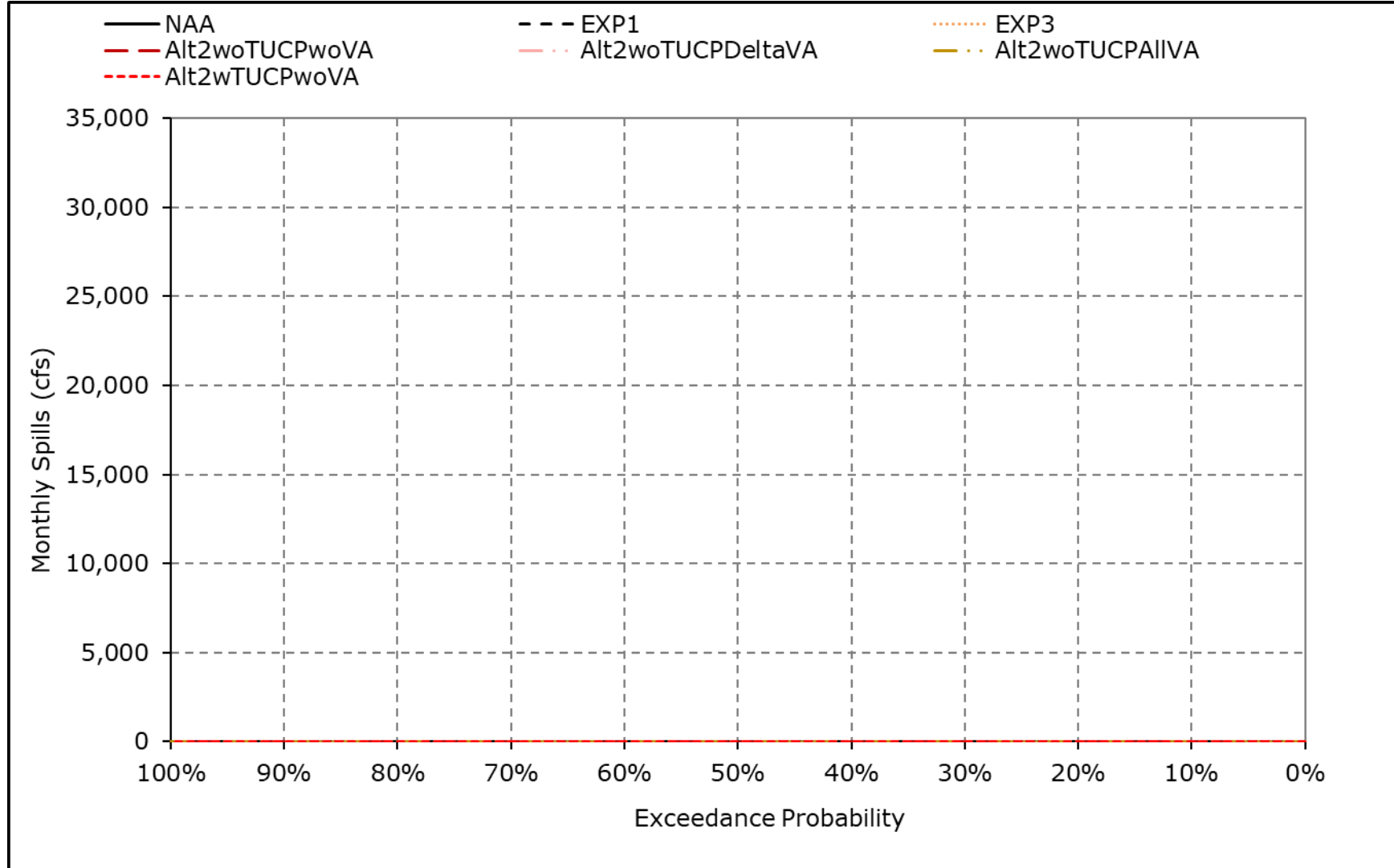
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-14. Fremont Weir Spills, May



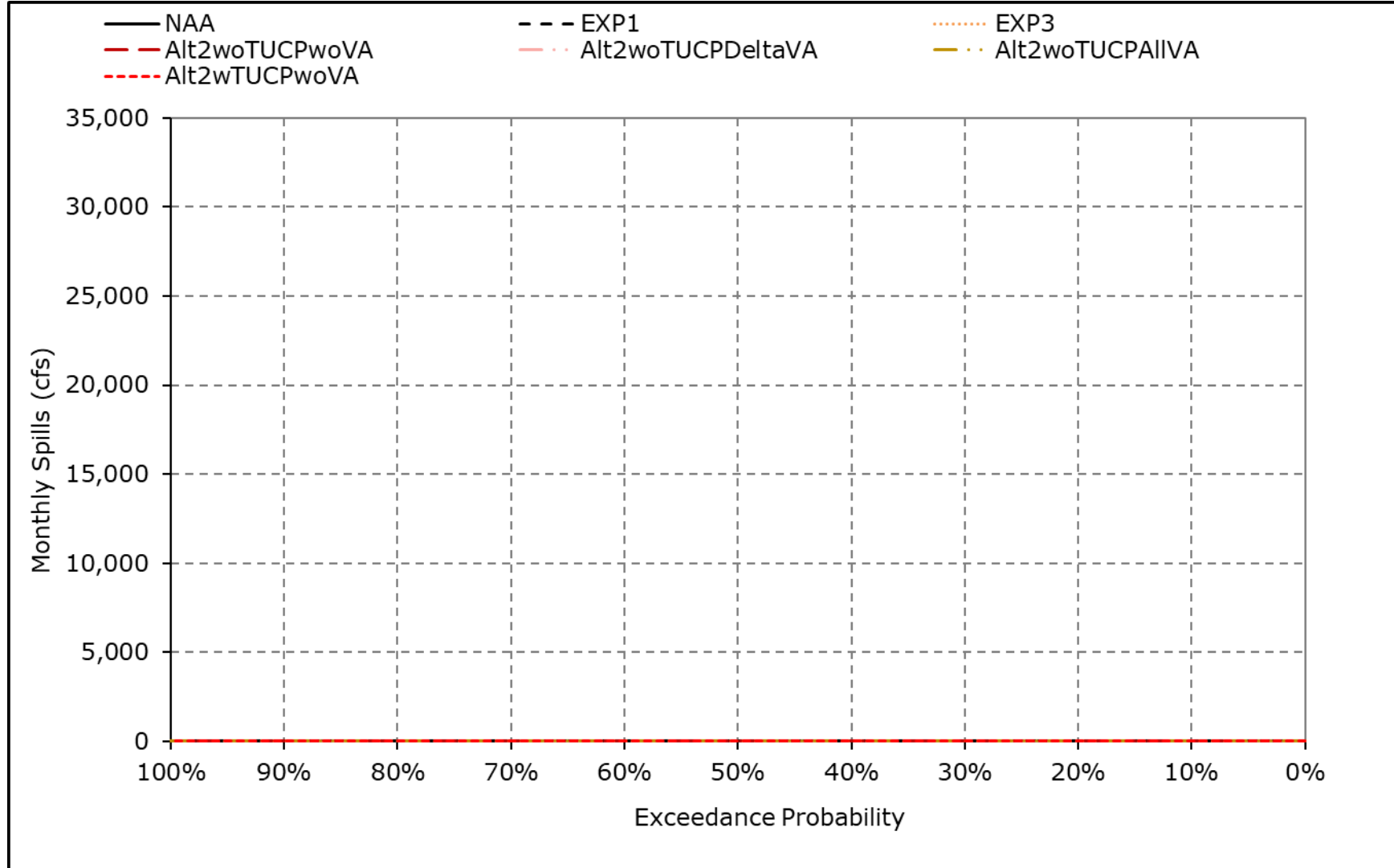
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-15. Fremont Weir Spills, June



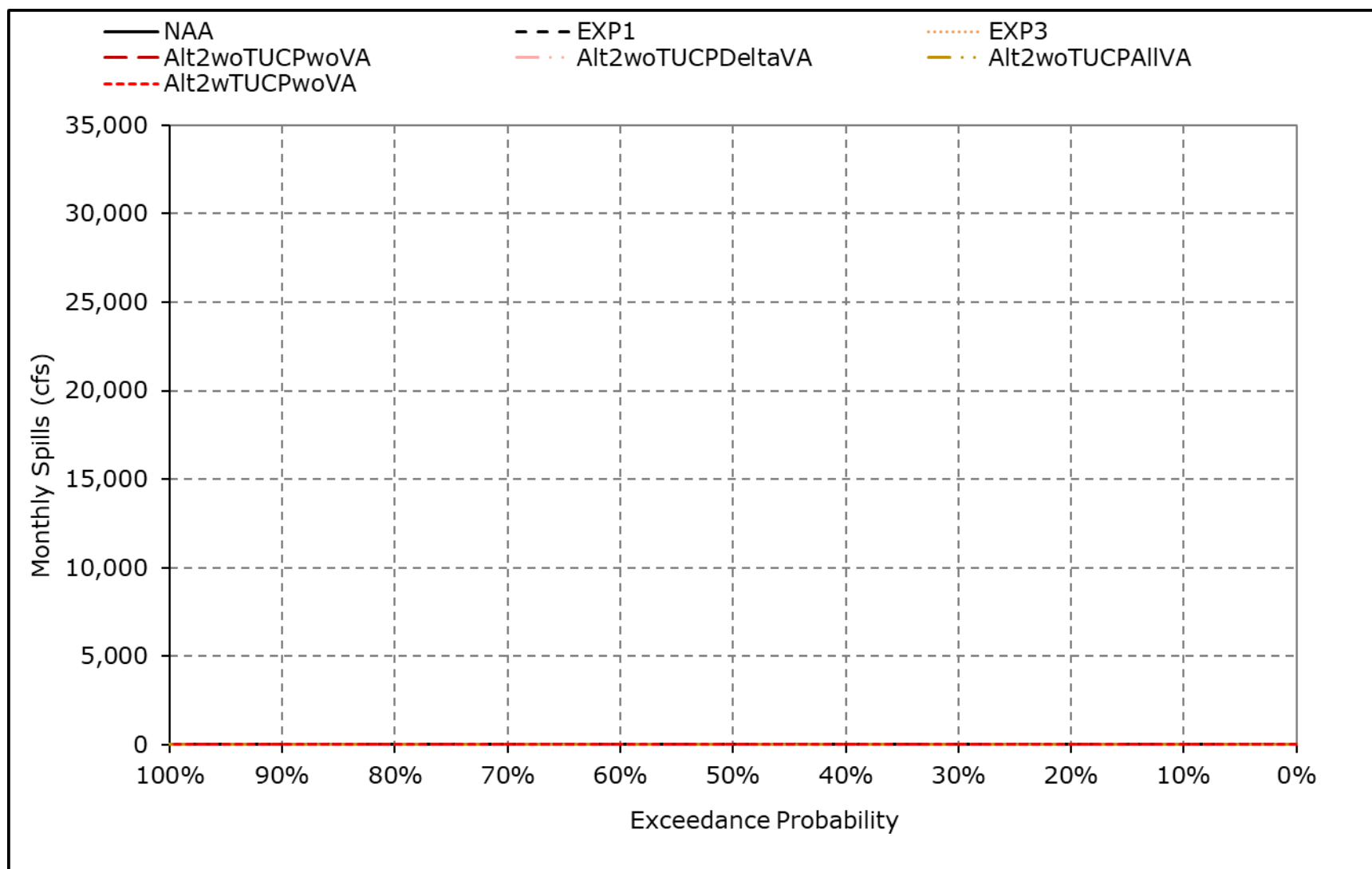
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-16. Fremont Weir Spills, July



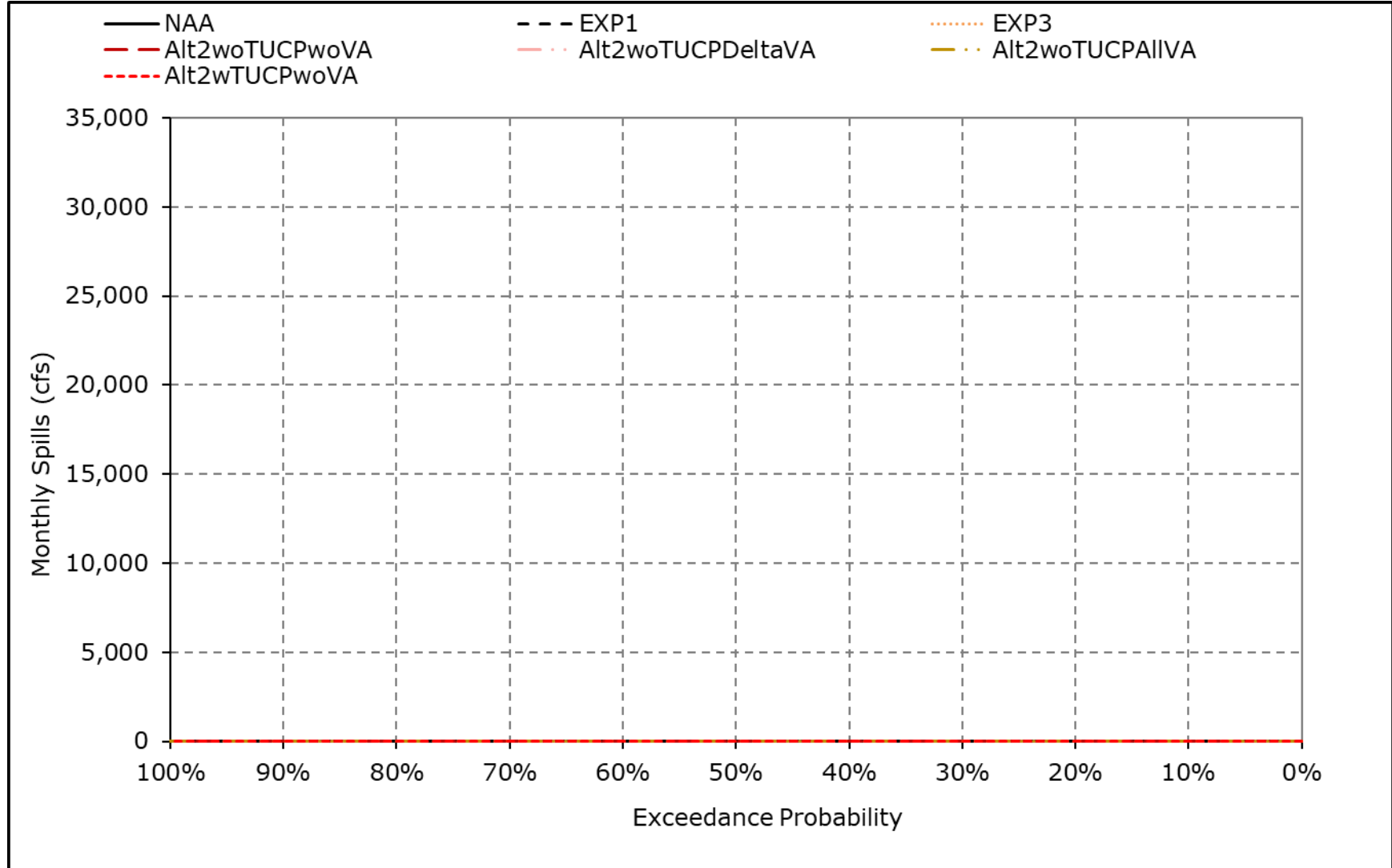
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-17. Fremont Weir Spills, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-10-18. Fremont Weir Spills, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-11-1a. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-1b. Yolo Bypass Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	182	1,426	15,405	32,522	63,211	26,347	2,764	1,067	448	282	219	271
20% Exceedance	121	370	8,440	16,161	22,783	9,144	1,502	621	343	269	209	250
30% Exceedance	103	243	2,008	5,602	9,832	4,331	908	470	278	265	201	244
40% Exceedance	85	152	1,044	3,071	6,806	2,410	622	401	259	258	197	237
50% Exceedance	76	127	528	1,841	2,934	1,129	361	302	254	252	192	221
60% Exceedance	68	103	312	1,021	1,656	757	265	257	246	248	189	207
70% Exceedance	62	91	187	426	775	474	246	234	239	242	184	191
80% Exceedance	49	81	110	245	436	275	230	215	232	231	174	179
90% Exceedance	38	70	90	130	178	119	213	191	219	217	134	158
Full Simulation Period Average ^a	176	655	5,706	12,452	18,466	9,463	2,082	541	308	254	190	224
Wet Water Years (28%)	115	957	6,949	36,001	50,995	27,070	6,210	998	449	285	220	264
Above Normal Water Years (14%)	104	702	3,064	11,675	18,807	9,618	881	572	273	240	192	213
Below Normal Water Years (18%)	89	388	6,267	2,602	3,136	1,516	486	466	246	214	190	232
Dry Water Years (24%)	427	651	8,304	758	3,644	878	401	276	261	258	178	210
Critical Water Years (16%)	61	368	1,194	544	724	330	222	197	234	249	155	175

Table F.2.2-11-1c. Yolo Bypass Flow, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2	168	-324	135	31	-25	-9	-1	-2	4	0	0
20% Exceedance	0	-1	10	111	10	-369	-10	-4	-1	2	-2	-3
30% Exceedance	0	-1	5	0	313	-374	-1	-1	-1	3	-3	-2
40% Exceedance	0	5	-15	152	124	-5	-1	-9	1	3	-3	-1
50% Exceedance	0	5	8	57	69	5	6	2	3	1	-4	0
60% Exceedance	-1	1	0	1	-8	43	-1	-1	2	0	-4	0
70% Exceedance	-1	-1	19	2	4	9	10	-2	4	3	-5	0
80% Exceedance	-5	2	-1	8	-1	1	11	1	3	5	-12	6
90% Exceedance	-5	3	0	1	-5	-1	26	2	31	33	-40	-1
Full Simulation Period Average ^a	-4	41	127	123	108	-91	4	-1	9	9	-9	-1
Wet Water Years (28%)	-1	6	24	296	199	-28	-9	-5	-2	1	-1	-1
Above Normal Water Years (14%)	0	1	91	242	41	-616	-3	-2	-2	2	-1	-2
Below Normal Water Years (18%)	1	6	89	10	62	10	0	-1	0	4	-6	-2
Dry Water Years (24%)	-15	8	372	13	143	5	-1	-1	-1	0	-11	1
Critical Water Years (16%)	-4	240	8	7	4	0	47	7	61	48	-28	1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-2a. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-2b. Yolo Bypass Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	1,432	15,541	32,466	63,152	26,470	2,770	1,107	449	282	219	272
20% Exceedance	124	370	8,495	16,154	22,839	9,165	1,507	619	345	269	209	252
30% Exceedance	103	247	2,010	5,594	9,694	4,584	904	474	279	265	201	245
40% Exceedance	87	152	1,043	3,059	6,762	2,413	623	401	259	259	197	237
50% Exceedance	76	128	529	1,838	2,938	1,125	364	304	254	252	193	226
60% Exceedance	71	103	315	1,022	1,658	747	266	257	246	249	189	210
70% Exceedance	64	92	186	426	777	467	246	235	239	243	186	193
80% Exceedance	57	80	111	238	437	275	230	212	231	231	176	183
90% Exceedance	44	71	90	129	179	120	213	190	220	218	138	160
Full Simulation Period Average ^a	194	650	5,666	12,405	18,429	9,467	2,084	543	309	255	191	226
Wet Water Years (28%)	116	956	6,938	35,806	50,934	27,079	6,218	1,001	450	286	220	266
Above Normal Water Years (14%)	105	682	3,061	11,743	18,799	9,630	881	572	273	240	192	214
Below Normal Water Years (18%)	89	392	6,206	2,605	3,085	1,516	488	470	247	220	190	238
Dry Water Years (24%)	432	621	8,201	751	3,605	878	402	279	262	258	178	211
Critical Water Years (16%)	174	406	1,193	542	717	332	222	195	235	250	158	174

Table F.2.2-11-2c. Yolo Bypass Flow, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	174	-188	79	-29	98	-3	39	0	4	0	0
20% Exceedance	3	-1	65	104	66	-348	-6	-7	2	2	-2	-1
30% Exceedance	0	2	7	-8	174	-121	-4	3	0	3	-3	-1
40% Exceedance	2	5	-16	141	80	-2	0	-8	1	3	-3	-1
50% Exceedance	0	6	9	54	72	1	9	4	4	2	-4	4
60% Exceedance	2	1	3	2	-6	33	0	0	2	2	-3	3
70% Exceedance	0	0	18	1	6	2	9	0	4	4	-2	3
80% Exceedance	3	2	-1	1	0	1	11	-2	2	5	-10	10
90% Exceedance	1	4	0	1	-4	0	26	1	32	34	-35	1
Full Simulation Period Average ^a	14	37	87	76	70	-87	7	1	10	10	-8	1
Wet Water Years (28%)	0	5	13	100	138	-19	-1	-2	-1	1	0	1
Above Normal Water Years (14%)	1	-19	87	310	34	-604	-3	-2	-1	2	-1	-1
Below Normal Water Years (18%)	2	10	29	13	10	10	2	3	1	10	-5	4
Dry Water Years (24%)	-11	-22	269	5	105	6	0	2	1	0	-12	2
Critical Water Years (16%)	108	277	7	4	-3	1	47	5	62	49	-25	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-3a. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-3b. Yolo Bypass Flow, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	187	1,350	15,256	32,417	62,784	26,332	2,772	1,109	451	282	219	273
20% Exceedance	124	376	8,497	16,232	23,411	8,985	1,518	621	347	269	209	253
30% Exceedance	104	261	2,030	5,653	9,763	4,692	911	476	279	265	201	247
40% Exceedance	87	176	1,049	3,049	6,777	2,407	625	408	259	259	197	236
50% Exceedance	76	138	537	1,848	2,946	1,117	385	307	254	252	193	225
60% Exceedance	71	121	328	1,036	1,669	753	272	264	246	248	189	209
70% Exceedance	64	111	190	437	781	467	248	245	239	243	186	193
80% Exceedance	55	99	118	247	440	287	232	220	231	231	176	181
90% Exceedance	42	82	102	136	192	129	212	198	219	218	139	163
Full Simulation Period Average ^a	187	656	5,700	12,411	18,433	9,421	2,073	546	310	256	190	226
Wet Water Years (28%)	116	959	6,942	35,762	50,795	26,911	6,164	1,002	451	286	220	267
Above Normal Water Years (14%)	105	718	3,070	11,835	18,780	9,605	884	571	275	240	192	215
Below Normal Water Years (18%)	90	425	6,159	2,609	3,120	1,519	497	469	248	221	190	238
Dry Water Years (24%)	439	717	8,360	760	3,761	889	407	290	262	258	178	212
Critical Water Years (16%)	116	207	1,206	552	729	340	224	199	235	250	154	175

Table F.2.2-11-3c. Yolo Bypass Flow, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3	92	-473	30	-397	-40	-1	40	2	4	0	1
20% Exceedance	3	4	67	182	638	-528	5	-4	3	2	-2	-1
30% Exceedance	0	17	27	51	243	-13	3	5	0	3	-3	1
40% Exceedance	2	28	-10	131	94	-8	2	-2	1	3	-3	-1
50% Exceedance	0	16	17	64	80	-7	29	7	3	2	-4	3
60% Exceedance	2	19	16	16	5	39	6	7	2	1	-3	2
70% Exceedance	0	19	22	12	9	2	12	10	4	4	-2	2
80% Exceedance	0	20	7	10	3	13	13	5	2	5	-10	8
90% Exceedance	-1	14	12	8	9	9	25	9	31	34	-34	4
Full Simulation Period Average ^a	7	42	122	81	74	-132	-4	4	10	11	-8	2
Wet Water Years (28%)	0	8	17	56	0	-186	-54	-2	0	2	0	2
Above Normal Water Years (14%)	1	17	96	402	15	-629	0	-2	1	2	-1	-1
Below Normal Water Years (18%)	2	42	-19	17	46	13	11	2	2	11	-6	4
Dry Water Years (24%)	-3	74	428	15	260	17	5	13	1	0	-11	3
Critical Water Years (16%)	51	78	21	14	9	10	49	10	62	49	-29	1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-4a. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-4b. Yolo Bypass Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	182	1,292	15,629	32,547	63,227	26,362	2,766	1,068	448	280	219	271
20% Exceedance	121	330	8,431	16,167	24,441	9,509	1,506	624	342	268	210	250
30% Exceedance	103	240	2,008	5,608	9,838	4,710	908	470	278	264	202	243
40% Exceedance	85	147	1,044	3,100	6,792	2,410	622	402	259	256	197	235
50% Exceedance	75	122	520	1,842	2,934	1,131	355	300	250	250	194	221
60% Exceedance	68	101	315	1,029	1,657	749	265	257	243	246	189	209
70% Exceedance	64	90	169	426	776	474	240	234	233	239	187	191
80% Exceedance	49	75	105	242	436	274	223	215	227	228	177	184
90% Exceedance	40	68	88	127	178	119	188	190	197	211	134	161
Full Simulation Period Average ^a	176	617	5,708	12,511	18,517	9,543	2,079	541	299	247	192	225
Wet Water Years (28%)	115	958	6,949	36,127	51,052	27,093	6,215	999	449	286	220	264
Above Normal Water Years (14%)	104	702	3,067	11,836	18,856	10,146	882	572	273	240	192	214
Below Normal Water Years (18%)	88	386	6,281	2,606	3,176	1,518	496	467	246	214	190	236
Dry Water Years (24%)	427	652	8,309	759	3,733	877	402	276	261	258	173	208
Critical Water Years (16%)	64	116	1,183	543	723	328	186	194	173	208	174	177

Table F.2.2-11-4c. Yolo Bypass Flow, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-2	33	-100	160	46	-10	-8	-1	-2	3	0	0
20% Exceedance	0	-41	1	117	1,668	-4	-7	-2	-2	1	-1	-3
30% Exceedance	0	-5	5	6	319	5	-1	-1	-1	2	-2	-3
40% Exceedance	0	0	-15	182	110	-4	-1	-8	0	0	-2	-2
50% Exceedance	-1	-1	0	58	69	7	-1	0	-1	-1	-3	-1
60% Exceedance	-1	-1	3	9	-7	36	-1	-1	-1	-1	-3	2
70% Exceedance	0	-2	1	2	4	9	4	-1	-2	0	-2	1
80% Exceedance	-5	-4	-6	6	-1	0	4	1	-1	1	-9	10
90% Exceedance	-3	1	-2	-1	-5	-1	1	0	9	27	-40	2
Full Simulation Period Average ^a	-4	3	129	181	159	-11	2	-1	-1	2	-7	0
Wet Water Years (28%)	-1	7	24	421	256	-5	-4	-4	-2	1	0	-1
Above Normal Water Years (14%)	0	1	93	403	90	-87	-2	-1	-1	2	-1	-1
Below Normal Water Years (18%)	0	4	104	14	102	12	10	0	0	4	-6	2
Dry Water Years (24%)	-15	9	377	13	232	5	-1	-1	-1	0	-17	0
Critical Water Years (16%)	-2	-12	-3	5	3	-2	10	4	0	7	-8	3

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-5a. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-5b. Yolo Bypass Flow, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	129	741	35,068	44,973	64,138	31,680	2,192	960	370	269	199	246
20% Exceedance	103	304	13,416	19,738	27,910	11,676	979	536	290	262	193	223
30% Exceedance	82	219	5,632	6,367	14,402	5,335	761	417	254	255	187	217
40% Exceedance	66	131	2,593	3,527	7,570	2,874	551	353	238	244	179	210
50% Exceedance	59	105	1,276	2,509	3,431	1,422	330	272	226	233	169	204
60% Exceedance	51	81	616	1,006	2,069	926	243	228	210	111	108	191
70% Exceedance	41	72	400	418	725	476	218	214	150	98	103	182
80% Exceedance	37	64	185	224	422	262	199	205	105	82	87	174
90% Exceedance	35	58	96	124	156	122	166	178	86	72	77	161
Full Simulation Period Average ^a	162	553	10,463	14,201	20,328	10,296	2,047	466	233	184	144	206
Wet Water Years (28%)	87	787	12,904	40,138	53,275	27,055	6,176	792	352	264	196	231
Above Normal Water Years (14%)	88	676	7,516	14,817	22,488	13,238	676	423	238	253	177	213
Below Normal Water Years (18%)	74	269	12,568	3,321	4,679	2,104	581	522	223	181	143	216
Dry Water Years (24%)	432	695	13,768	832	5,443	1,830	389	260	194	120	102	195
Critical Water Years (16%)	48	110	1,037	565	717	311	156	182	88	82	89	163

Table F.2.2-11-5c. Yolo Bypass Flow, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-55	-517	19,339	12,586	957	5,308	-581	-109	-80	-8	-20	-25
20% Exceedance	-18	-67	4,986	3,688	5,137	2,163	-534	-89	-54	-5	-18	-30
30% Exceedance	-22	-26	3,629	765	4,883	630	-148	-54	-25	-6	-17	-30
40% Exceedance	-19	-16	1,535	609	887	460	-72	-56	-21	-11	-20	-28
50% Exceedance	-17	-17	756	725	565	297	-25	-29	-25	-17	-27	-18
60% Exceedance	-18	-21	304	-14	405	213	-23	-30	-34	-136	-85	-16
70% Exceedance	-22	-20	232	-6	-46	11	-18	-22	-85	-141	-86	-9
80% Exceedance	-17	-14	74	-13	-15	-12	-19	-10	-124	-144	-98	0
90% Exceedance	-8	-10	5	-4	-27	2	-21	-11	-102	-112	-97	2
Full Simulation Period Average ^a	-18	-60	4,884	1,871	1,970	743	-30	-76	-67	-61	-54	-18
Wet Water Years (28%)	-29	-164	5,979	4,432	2,479	-43	-43	-211	-99	-21	-24	-34
Above Normal Water Years (14%)	-16	-25	4,542	3,384	3,723	3,004	-208	-151	-36	15	-16	-2
Below Normal Water Years (18%)	-14	-113	6,390	729	1,604	598	95	55	-23	-29	-52	-17
Dry Water Years (24%)	-11	52	5,837	86	1,942	958	-13	-17	-68	-138	-87	-13
Critical Water Years (16%)	-17	-18	-149	27	-3	-19	-19	-8	-85	-120	-94	-12

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-6a. Yolo Bypass Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	1,427	23,736	48,323	62,211	33,592	6,992	866	509	758	525	250
20% Exceedance	98	340	15,658	22,107	29,680	18,923	2,334	555	367	394	210	230
30% Exceedance	83	247	3,173	8,943	19,136	8,369	935	418	296	286	202	217
40% Exceedance	65	160	1,724	4,859	9,824	4,411	644	387	244	265	197	208
50% Exceedance	60	109	841	3,125	5,462	2,294	383	271	230	259	191	205
60% Exceedance	54	83	339	1,355	3,114	1,711	255	228	220	251	188	188
70% Exceedance	43	71	169	584	1,427	785	214	217	208	242	183	178
80% Exceedance	38	64	97	255	639	298	200	205	159	231	178	163
90% Exceedance	33	58	75	143	187	202	170	179	97	219	122	147
Full Simulation Period Average ^a	257	951	7,708	15,039	20,885	11,908	3,250	571	323	452	292	203
Wet Water Years (28%)	85	888	7,732	40,329	51,779	29,119	9,756	1,102	349	276	193	228
Above Normal Water Years (14%)	90	1,588	4,686	18,156	23,266	15,790	1,247	445	235	296	216	216
Below Normal Water Years (18%)	73	432	9,674	4,471	5,784	4,321	1,094	602	211	327	182	211
Dry Water Years (24%)	828	1,533	11,569	1,147	7,859	2,817	508	264	221	355	276	185
Critical Water Years (16%)	53	124	2,147	782	1,264	562	154	181	637	1,183	677	167

Table F.2.2-11-6b. Yolo Bypass Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	182	1,426	15,405	32,522	63,211	26,347	2,764	1,067	448	282	219	271
20% Exceedance	121	370	8,440	16,161	22,783	9,144	1,502	621	343	269	209	250
30% Exceedance	103	243	2,008	5,602	9,832	4,331	908	470	278	265	201	244
40% Exceedance	85	152	1,044	3,071	6,806	2,410	622	401	259	258	197	237
50% Exceedance	76	127	528	1,841	2,934	1,129	361	302	254	252	192	221
60% Exceedance	68	103	312	1,021	1,656	757	265	257	246	248	189	207
70% Exceedance	62	91	187	426	775	474	246	234	239	242	184	191
80% Exceedance	49	81	110	245	436	275	230	215	232	231	174	179
90% Exceedance	38	70	90	130	178	119	213	191	219	217	134	158
Full Simulation Period Average ^a	176	655	5,706	12,452	18,466	9,463	2,082	541	308	254	190	224
Wet Water Years (28%)	115	957	6,949	36,001	50,995	27,070	6,210	998	449	285	220	264
Above Normal Water Years (14%)	104	702	3,064	11,675	18,807	9,618	881	572	273	240	192	213
Below Normal Water Years (18%)	89	388	6,267	2,602	3,136	1,516	486	466	246	214	190	232
Dry Water Years (24%)	427	651	8,304	758	3,644	878	401	276	261	258	178	210
Critical Water Years (16%)	61	368	1,194	544	724	330	222	197	234	249	155	175

Table F.2.2-11-6c. Yolo Bypass Flow, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	49	-1	-8,331	-15,801	1,000	-7,245	-4,228	201	-61	-476	-307	21
20% Exceedance	23	30	-7,218	-5,946	-6,897	-9,779	-831	67	-24	-125	-1	20
30% Exceedance	19	-4	-1,165	-3,341	-9,304	-4,039	-27	52	-19	-21	-1	27
40% Exceedance	20	-8	-681	-1,788	-3,018	-2,002	-22	14	15	-7	0	29
50% Exceedance	16	18	-313	-1,284	-2,528	-1,165	-22	31	24	-7	1	16
60% Exceedance	14	19	-27	-333	-1,458	-955	11	28	26	-4	1	19
70% Exceedance	19	20	18	-158	-652	-311	32	17	30	0	1	13
80% Exceedance	11	16	12	-10	-203	-22	30	11	73	0	-4	16
90% Exceedance	5	12	15	-13	-9	-83	43	13	122	-2	12	11
Full Simulation Period Average ^a	-81	-296	-2,002	-2,587	-2,419	-2,445	-1,168	-30	-15	-198	-102	21
Wet Water Years (28%)	30	69	-782	-4,328	-785	-2,049	-3,546	-104	100	10	27	35
Above Normal Water Years (14%)	15	-886	-1,622	-6,481	-4,460	-6,172	-366	126	38	-56	-25	-3
Below Normal Water Years (18%)	15	-44	-3,407	-1,869	-2,648	-2,805	-608	-136	35	-113	8	21
Dry Water Years (24%)	-400	-882	-3,265	-389	-4,215	-1,939	-107	12	40	-97	-98	25
Critical Water Years (16%)	9	245	-954	-238	-540	-232	68	16	-402	-934	-522	8

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-7a. Yolo Bypass Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	1,427	23,736	48,323	62,211	33,592	6,992	866	509	758	525	250
20% Exceedance	98	340	15,658	22,107	29,680	18,923	2,334	555	367	394	210	230
30% Exceedance	83	247	3,173	8,943	19,136	8,369	935	418	296	286	202	217
40% Exceedance	65	160	1,724	4,859	9,824	4,411	644	387	244	265	197	208
50% Exceedance	60	109	841	3,125	5,462	2,294	383	271	230	259	191	205
60% Exceedance	54	83	339	1,355	3,114	1,711	255	228	220	251	188	188
70% Exceedance	43	71	169	584	1,427	785	214	217	208	242	183	178
80% Exceedance	38	64	97	255	639	298	200	205	159	231	178	163
90% Exceedance	33	58	75	143	187	202	170	179	97	219	122	147
Full Simulation Period Average ^a	257	951	7,708	15,039	20,885	11,908	3,250	571	323	452	292	203
Wet Water Years (28%)	85	888	7,732	40,329	51,779	29,119	9,756	1,102	349	276	193	228
Above Normal Water Years (14%)	90	1,588	4,686	18,156	23,266	15,790	1,247	445	235	296	216	216
Below Normal Water Years (18%)	73	432	9,674	4,471	5,784	4,321	1,094	602	211	327	182	211
Dry Water Years (24%)	828	1,533	11,569	1,147	7,859	2,817	508	264	221	355	276	185
Critical Water Years (16%)	53	124	2,147	782	1,264	562	154	181	637	1,183	677	167

Table F.2.2-11-7b. Yolo Bypass Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	186	1,432	15,541	32,466	63,152	26,470	2,770	1,107	449	282	219	272
20% Exceedance	124	370	8,495	16,154	22,839	9,165	1,507	619	345	269	209	252
30% Exceedance	103	247	2,010	5,594	9,694	4,584	904	474	279	265	201	245
40% Exceedance	87	152	1,043	3,059	6,762	2,413	623	401	259	259	197	237
50% Exceedance	76	128	529	1,838	2,938	1,125	364	304	254	252	193	226
60% Exceedance	71	103	315	1,022	1,658	747	266	257	246	249	189	210
70% Exceedance	64	92	186	426	777	467	246	235	239	243	186	193
80% Exceedance	57	80	111	238	437	275	230	212	231	231	176	183
90% Exceedance	44	71	90	129	179	120	213	190	220	218	138	160
Full Simulation Period Average ^a	194	650	5,666	12,405	18,429	9,467	2,084	543	309	255	191	226
Wet Water Years (28%)	116	956	6,938	35,806	50,934	27,079	6,218	1,001	450	286	220	266
Above Normal Water Years (14%)	105	682	3,061	11,743	18,799	9,630	881	572	273	240	192	214
Below Normal Water Years (18%)	89	392	6,206	2,605	3,085	1,516	488	470	247	220	190	238
Dry Water Years (24%)	432	621	8,201	751	3,605	878	402	279	262	258	178	211
Critical Water Years (16%)	174	406	1,193	542	717	332	222	195	235	250	158	174

Table F.2.2-11-7c. Yolo Bypass Flow, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	5	-8,195	-15,857	940	-7,122	-4,222	241	-60	-476	-307	22
20% Exceedance	27	30	-7,163	-5,953	-6,841	-9,758	-827	64	-22	-125	-1	22
30% Exceedance	20	-1	-1,163	-3,349	-9,443	-3,785	-30	56	-18	-21	-1	29
40% Exceedance	22	-8	-682	-1,799	-3,062	-1,998	-21	14	15	-6	0	29
50% Exceedance	16	19	-311	-1,287	-2,524	-1,169	-19	33	24	-6	2	20
60% Exceedance	17	19	-24	-333	-1,456	-965	11	29	26	-2	1	22
70% Exceedance	20	21	18	-159	-650	-318	31	18	30	1	4	15
80% Exceedance	19	16	13	-17	-203	-22	30	8	72	0	-2	20
90% Exceedance	11	13	15	-14	-8	-82	43	12	123	-1	17	12
Full Simulation Period Average ^a	-63	-301	-2,042	-2,634	-2,457	-2,441	-1,166	-28	-14	-197	-101	22
Wet Water Years (28%)	30	68	-794	-4,523	-846	-2,040	-3,538	-101	101	10	27	38
Above Normal Water Years (14%)	16	-906	-1,625	-6,414	-4,467	-6,160	-366	126	39	-55	-25	-2
Below Normal Water Years (18%)	16	-40	-3,468	-1,866	-2,700	-2,805	-606	-132	36	-108	8	27
Dry Water Years (24%)	-396	-912	-3,368	-396	-4,254	-1,939	-106	15	41	-97	-99	26
Critical Water Years (16%)	121	282	-954	-241	-547	-230	68	15	-402	-933	-519	8

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-8a. Yolo Bypass Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	1,427	23,736	48,323	62,211	33,592	6,992	866	509	758	525	250
20% Exceedance	98	340	15,658	22,107	29,680	18,923	2,334	555	367	394	210	230
30% Exceedance	83	247	3,173	8,943	19,136	8,369	935	418	296	286	202	217
40% Exceedance	65	160	1,724	4,859	9,824	4,411	644	387	244	265	197	208
50% Exceedance	60	109	841	3,125	5,462	2,294	383	271	230	259	191	205
60% Exceedance	54	83	339	1,355	3,114	1,711	255	228	220	251	188	188
70% Exceedance	43	71	169	584	1,427	785	214	217	208	242	183	178
80% Exceedance	38	64	97	255	639	298	200	205	159	231	178	163
90% Exceedance	33	58	75	143	187	202	170	179	97	219	122	147
Full Simulation Period Average^a	257	951	7,708	15,039	20,885	11,908	3,250	571	323	452	292	203
Wet Water Years (28%)	85	888	7,732	40,329	51,779	29,119	9,756	1,102	349	276	193	228
Above Normal Water Years (14%)	90	1,588	4,686	18,156	23,266	15,790	1,247	445	235	296	216	216
Below Normal Water Years (18%)	73	432	9,674	4,471	5,784	4,321	1,094	602	211	327	182	211
Dry Water Years (24%)	828	1,533	11,569	1,147	7,859	2,817	508	264	221	355	276	185
Critical Water Years (16%)	53	124	2,147	782	1,264	562	154	181	637	1,183	677	167

Table F.2.2-11-8b. Yolo Bypass Flow, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	187	1,350	15,256	32,417	62,784	26,332	2,772	1,109	451	282	219	273
20% Exceedance	124	376	8,497	16,232	23,411	8,985	1,518	621	347	269	209	253
30% Exceedance	104	261	2,030	5,653	9,763	4,692	911	476	279	265	201	247
40% Exceedance	87	176	1,049	3,049	6,777	2,407	625	408	259	259	197	236
50% Exceedance	76	138	537	1,848	2,946	1,117	385	307	254	252	193	225
60% Exceedance	71	121	328	1,036	1,669	753	272	264	246	248	189	209
70% Exceedance	64	111	190	437	781	467	248	245	239	243	186	193
80% Exceedance	55	99	118	247	440	287	232	220	231	231	176	181
90% Exceedance	42	82	102	136	192	129	212	198	219	218	139	163
Full Simulation Period Average^a	187	656	5,700	12,411	18,433	9,421	2,073	546	310	256	190	226
Wet Water Years (28%)	116	959	6,942	35,762	50,795	26,911	6,164	1,002	451	286	220	267
Above Normal Water Years (14%)	105	718	3,070	11,835	18,780	9,605	884	571	275	240	192	215
Below Normal Water Years (18%)	90	425	6,159	2,609	3,120	1,519	497	469	248	221	190	238
Dry Water Years (24%)	439	717	8,360	760	3,761	889	407	290	262	258	178	212
Critical Water Years (16%)	116	207	1,206	552	729	340	224	199	235	250	154	175

Table F.2.2-11-8c. Yolo Bypass Flow, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	54	-77	-8,480	-15,906	572	-7,260	-4,220	243	-58	-476	-307	23
20% Exceedance	26	36	-7,160	-5,875	-6,269	-9,937	-816	67	-20	-125	-1	23
30% Exceedance	20	14	-1,143	-3,290	-9,374	-3,677	-23	58	-17	-21	-1	31
40% Exceedance	22	15	-675	-1,809	-3,047	-2,004	-19	21	15	-6	0	28
50% Exceedance	16	29	-304	-1,276	-2,516	-1,177	1	36	24	-6	2	20
60% Exceedance	17	38	-12	-318	-1,445	-958	17	36	26	-3	1	21
70% Exceedance	20	40	21	-147	-647	-318	34	28	30	1	4	15
80% Exceedance	17	34	21	-8	-200	-11	32	15	72	0	-2	18
90% Exceedance	10	24	27	-7	5	-73	42	20	121	-1	18	16
Full Simulation Period Average^a	-70	-295	-2,008	-2,629	-2,452	-2,486	-1,177	-25	-14	-196	-102	23
Wet Water Years (28%)	31	72	-790	-4,567	-984	-2,207	-3,591	-100	102	11	27	39
Above Normal Water Years (14%)	16	-871	-1,616	-6,321	-4,486	-6,185	-363	125	41	-55	-25	-1
Below Normal Water Years (18%)	17	-7	-3,515	-1,862	-2,665	-2,802	-597	-133	37	-106	8	27
Dry Water Years (24%)	-388	-816	-3,209	-387	-4,098	-1,928	-101	26	41	-97	-98	27
Critical Water Years (16%)	63	83	-941	-230	-535	-221	70	19	-402	-933	-523	8

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-9a. Yolo Bypass Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	1,427	23,736	48,323	62,211	33,592	6,992	866	509	758	525	250
20% Exceedance	98	340	15,658	22,107	29,680	18,923	2,334	555	367	394	210	230
30% Exceedance	83	247	3,173	8,943	19,136	8,369	935	418	296	286	202	217
40% Exceedance	65	160	1,724	4,859	9,824	4,411	644	387	244	265	197	208
50% Exceedance	60	109	841	3,125	5,462	2,294	383	271	230	259	191	205
60% Exceedance	54	83	339	1,355	3,114	1,711	255	228	220	251	188	188
70% Exceedance	43	71	169	584	1,427	785	214	217	208	242	183	178
80% Exceedance	38	64	97	255	639	298	200	205	159	231	178	163
90% Exceedance	33	58	75	143	187	202	170	179	97	219	122	147
Full Simulation Period Average ^a	257	951	7,708	15,039	20,885	11,908	3,250	571	323	452	292	203
Wet Water Years (28%)	85	888	7,732	40,329	51,779	29,119	9,756	1,102	349	276	193	228
Above Normal Water Years (14%)	90	1,588	4,686	18,156	23,266	15,790	1,247	445	235	296	216	216
Below Normal Water Years (18%)	73	432	9,674	4,471	5,784	4,321	1,094	602	211	327	182	211
Dry Water Years (24%)	828	1,533	11,569	1,147	7,859	2,817	508	264	221	355	276	185
Critical Water Years (16%)	53	124	2,147	782	1,264	562	154	181	637	1,183	677	167

Table F.2.2-11-9b. Yolo Bypass Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	182	1,292	15,629	32,547	63,227	26,362	2,766	1,068	448	280	219	271
20% Exceedance	121	330	8,431	16,167	24,441	9,509	1,506	624	342	268	210	250
30% Exceedance	103	240	2,008	5,608	9,838	4,710	908	470	278	264	202	243
40% Exceedance	85	147	1,044	3,100	6,792	2,410	622	402	259	256	197	235
50% Exceedance	75	122	520	1,842	2,934	1,131	355	300	250	250	194	221
60% Exceedance	68	101	315	1,029	1,657	749	265	257	243	246	189	209
70% Exceedance	64	90	169	426	776	474	240	234	233	239	187	191
80% Exceedance	49	75	105	242	436	274	223	215	227	228	177	184
90% Exceedance	40	68	88	127	178	119	188	190	197	211	134	161
Full Simulation Period Average ^a	176	617	5,708	12,511	18,517	9,543	2,079	541	299	247	192	225
Wet Water Years (28%)	115	958	6,949	36,127	51,052	27,093	6,215	999	449	286	220	264
Above Normal Water Years (14%)	104	702	3,067	11,836	18,856	10,146	882	572	273	240	192	214
Below Normal Water Years (18%)	88	386	6,281	2,606	3,176	1,518	496	467	246	214	190	236
Dry Water Years (24%)	427	652	8,309	759	3,733	877	402	276	261	258	173	208
Critical Water Years (16%)	64	116	1,183	543	723	328	186	194	173	208	174	177

Table F.2.2-11-9c. Yolo Bypass Flow, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	49	-135	-8,107	-15,776	1,016	-7,230	-4,227	201	-61	-478	-307	22
20% Exceedance	23	-10	-7,226	-5,940	-5,240	-9,414	-828	69	-25	-126	0	21
30% Exceedance	19	-8	-1,165	-3,335	-9,298	-3,659	-27	52	-18	-22	0	27
40% Exceedance	19	-13	-681	-1,758	-3,032	-2,001	-22	15	14	-10	0	27
50% Exceedance	15	13	-320	-1,283	-2,527	-1,163	-29	29	20	-9	2	16
60% Exceedance	14	18	-24	-326	-1,457	-962	11	28	23	-5	2	21
70% Exceedance	20	19	0	-158	-651	-311	25	17	25	-3	4	13
80% Exceedance	11	11	8	-13	-204	-24	23	11	69	-3	0	20
90% Exceedance	8	10	13	-16	-9	-83	18	11	100	-8	12	14
Full Simulation Period Average ^a	-81	-334	-2,000	-2,529	-2,368	-2,365	-1,171	-30	-25	-205	-100	22
Wet Water Years (28%)	30	70	-783	-4,203	-728	-2,026	-3,541	-103	100	10	27	36
Above Normal Water Years (14%)	15	-886	-1,619	-6,320	-4,411	-5,643	-364	127	39	-56	-25	-2
Below Normal Water Years (18%)	15	-46	-3,393	-1,865	-2,609	-2,803	-598	-135	35	-113	8	25
Dry Water Years (24%)	-400	-881	-3,260	-388	-4,126	-1,940	-107	12	40	-97	-103	23
Critical Water Years (16%)	11	-8	-965	-239	-542	-233	31	14	-464	-975	-502	11

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-11-10a. Yolo Bypass Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	1,427	23,736	48,323	62,211	33,592	6,992	866	509	758	525	250
20% Exceedance	98	340	15,658	22,107	29,680	18,923	2,334	555	367	394	210	230
30% Exceedance	83	247	3,173	8,943	19,136	8,369	935	418	296	286	202	217
40% Exceedance	65	160	1,724	4,859	9,824	4,411	644	387	244	265	197	208
50% Exceedance	60	109	841	3,125	5,462	2,294	383	271	230	259	191	205
60% Exceedance	54	83	339	1,355	3,114	1,711	255	228	220	251	188	188
70% Exceedance	43	71	169	584	1,427	785	214	217	208	242	183	178
80% Exceedance	38	64	97	255	639	298	200	205	159	231	178	163
90% Exceedance	33	58	75	143	187	202	170	179	97	219	122	147
Full Simulation Period Average ^a	257	951	7,708	15,039	20,885	11,908	3,250	571	323	452	292	203
Wet Water Years (28%)	85	888	7,732	40,329	51,779	29,119	9,756	1,102	349	276	193	228
Above Normal Water Years (14%)	90	1,588	4,686	18,156	23,266	15,790	1,247	445	235	296	216	216
Below Normal Water Years (18%)	73	432	9,674	4,471	5,784	4,321	1,094	602	211	327	182	211
Dry Water Years (24%)	828	1,533	11,569	1,147	7,859	2,817	508	264	221	355	276	185
Critical Water Years (16%)	53	124	2,147	782	1,264	562	154	181	637	1,183	677	167

Table F.2.2-11-10b. Yolo Bypass Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	184	1,258	15,729	32,387	63,181	26,372	2,773	1,069	449	277	219	271
20% Exceedance	121	371	8,430	16,050	22,773	9,513	1,513	626	344	267	211	253
30% Exceedance	103	244	2,003	5,602	9,520	4,705	909	471	279	262	204	246
40% Exceedance	85	147	1,059	2,918	6,682	2,415	623	409	259	256	200	237
50% Exceedance	76	123	520	1,784	2,865	1,124	355	301	251	250	196	222
60% Exceedance	69	102	312	1,020	1,664	714	266	258	244	247	192	207
70% Exceedance	64	92	168	425	772	465	236	236	235	239	189	191
80% Exceedance	54	79	111	237	437	274	219	214	229	226	186	173
90% Exceedance	43	67	91	128	183	120	188	189	188	184	174	159
Full Simulation Period Average ^a	180	614	5,579	12,330	18,359	9,553	2,077	542	299	245	199	224
Wet Water Years (28%)	116	951	6,925	35,706	50,796	27,098	6,219	1,003	451	285	221	265
Above Normal Water Years (14%)	104	701	2,974	11,433	18,766	10,234	884	573	274	238	193	215
Below Normal Water Years (18%)	88	382	6,178	2,592	3,074	1,506	486	467	246	210	195	234
Dry Water Years (24%)	443	643	7,932	746	3,501	872	402	277	261	258	189	209
Critical Water Years (16%)	65	128	1,186	538	720	330	175	190	173	202	183	174

Table F.2.2-11-10c. Yolo Bypass Flow, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	51	-168	-8,007	-15,936	969	-7,220	-4,219	202	-60	-481	-307	22
20% Exceedance	24	31	-7,228	-6,058	-6,907	-9,410	-821	71	-23	-127	1	23
30% Exceedance	20	-3	-1,170	-3,341	-9,617	-3,664	-26	53	-18	-24	2	30
40% Exceedance	20	-13	-666	-1,940	-3,142	-1,997	-21	23	14	-10	3	29
50% Exceedance	16	14	-321	-1,341	-2,596	-1,170	-28	29	21	-8	5	16
60% Exceedance	15	18	-27	-335	-1,450	-998	11	29	24	-4	4	19
70% Exceedance	20	21	0	-160	-656	-320	22	19	27	-3	6	13
80% Exceedance	16	14	14	-18	-202	-24	19	9	70	-5	8	10
90% Exceedance	10	9	15	-15	-4	-82	17	11	91	-35	52	12
Full Simulation Period Average ^a	-77	-337	-2,129	-2,710	-2,527	-2,354	-1,173	-29	-24	-207	-93	21
Wet Water Years (28%)	31	63	-807	-4,624	-984	-2,021	-3,537	-98	102	9	27	37
Above Normal Water Years (14%)	15	-887	-1,712	-6,723	-4,501	-5,556	-363	128	40	-58	-23	-1
Below Normal Water Years (18%)	15	-49	-3,496	-1,879	-2,710	-2,815	-608	-135	35	-117	14	23
Dry Water Years (24%)	-385	-890	-3,638	-401	-4,358	-1,945	-106	13	40	-97	-87	24
Critical Water Years (16%)	12	4	-962	-245	-544	-231	21	9	-464	-982	-494	8

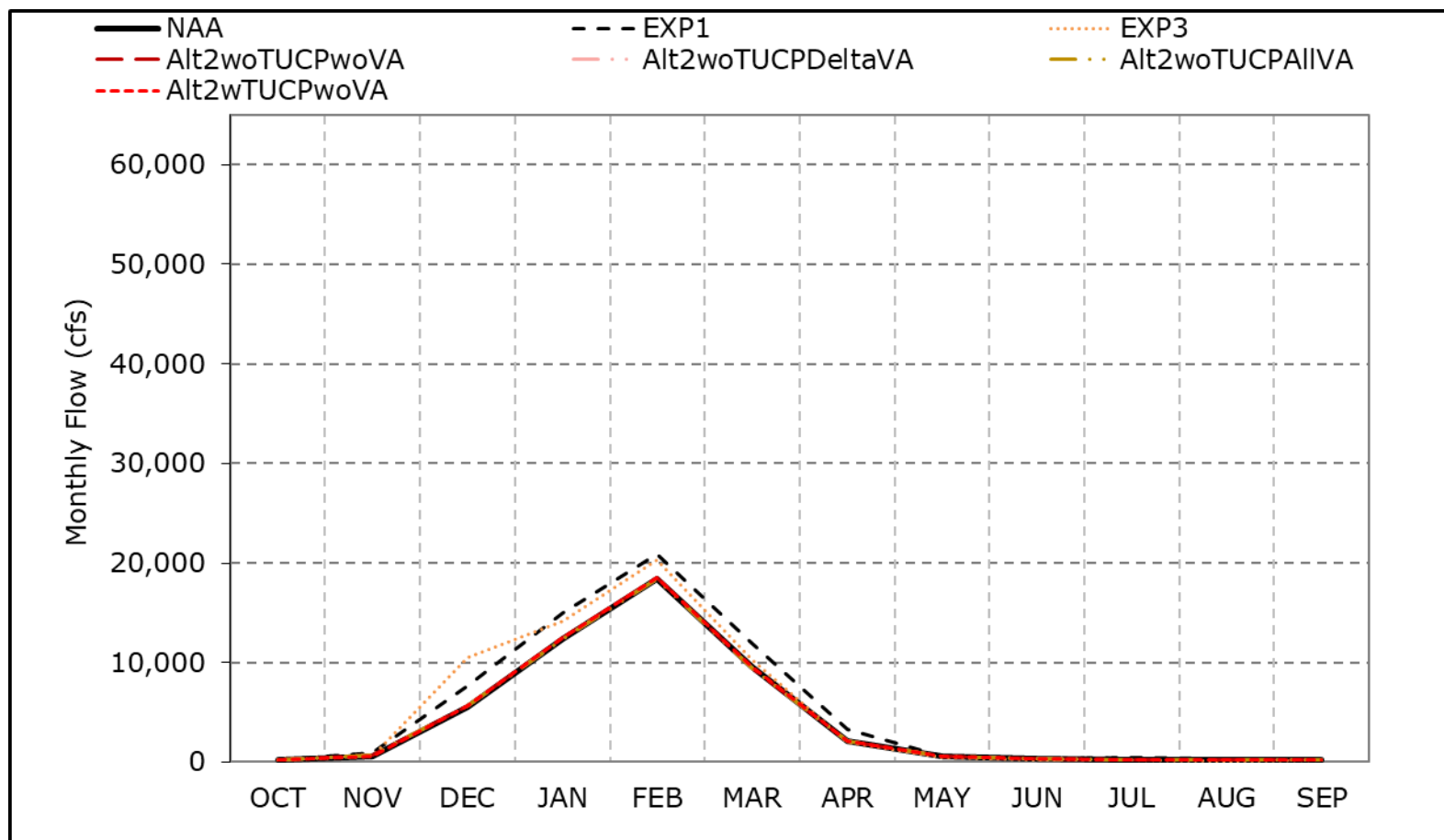
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-11-1. Yolo Bypass Flow, Long-Term Average Flow

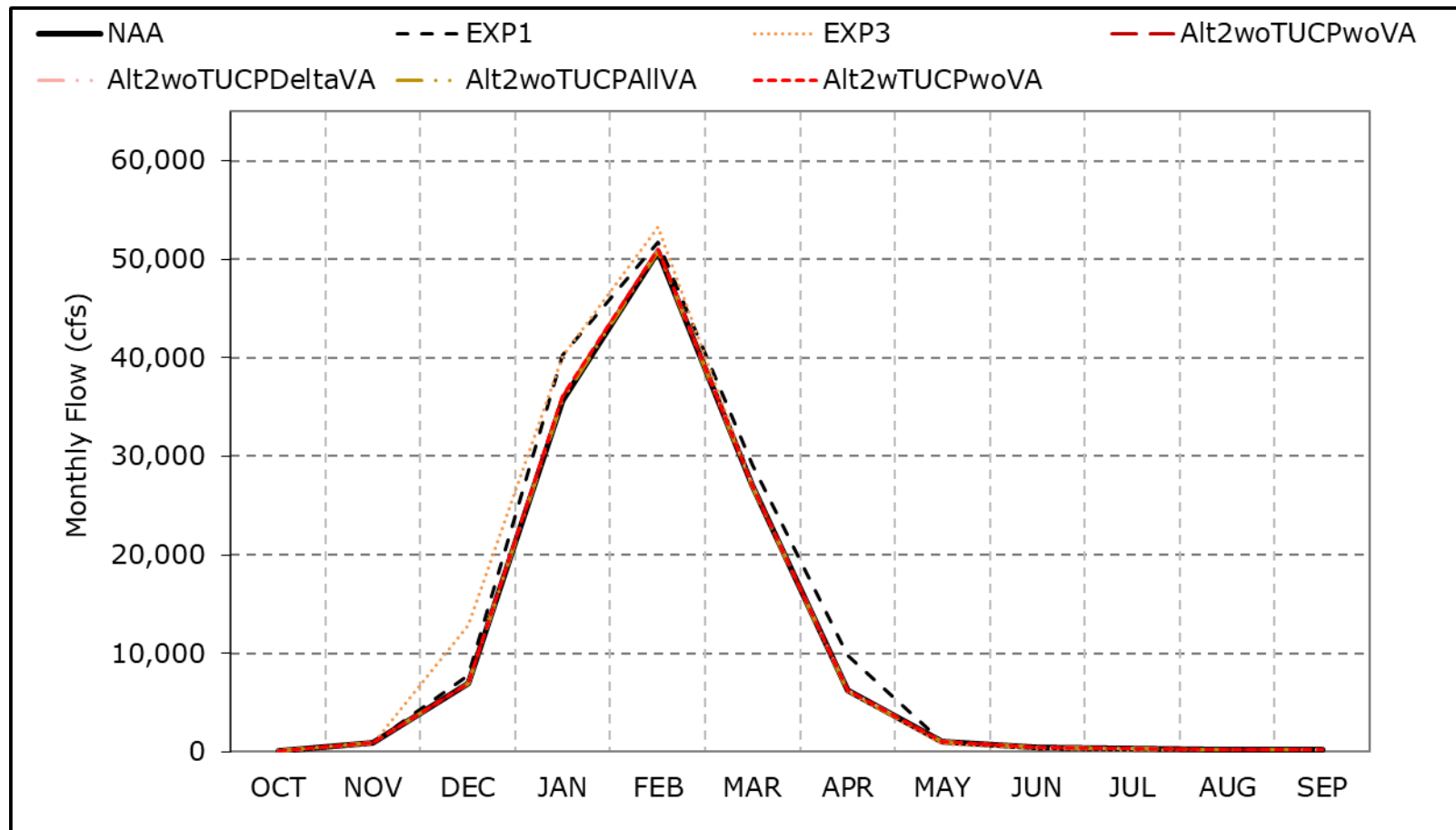


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-2. Yolo Bypass Flow, Wet Year Average Flow

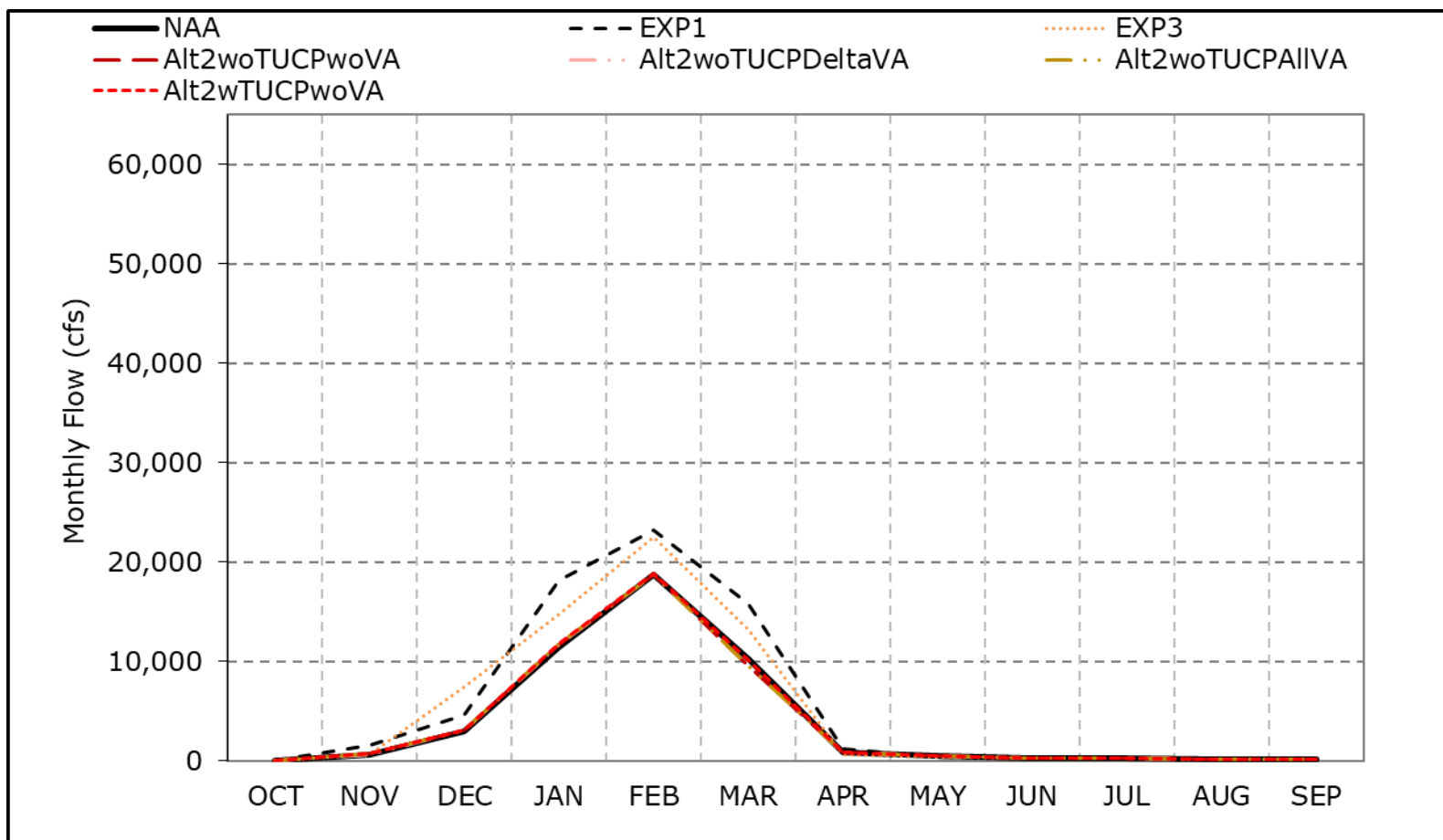


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-3. Yolo Bypass Flow, Above Normal Year Average Flow

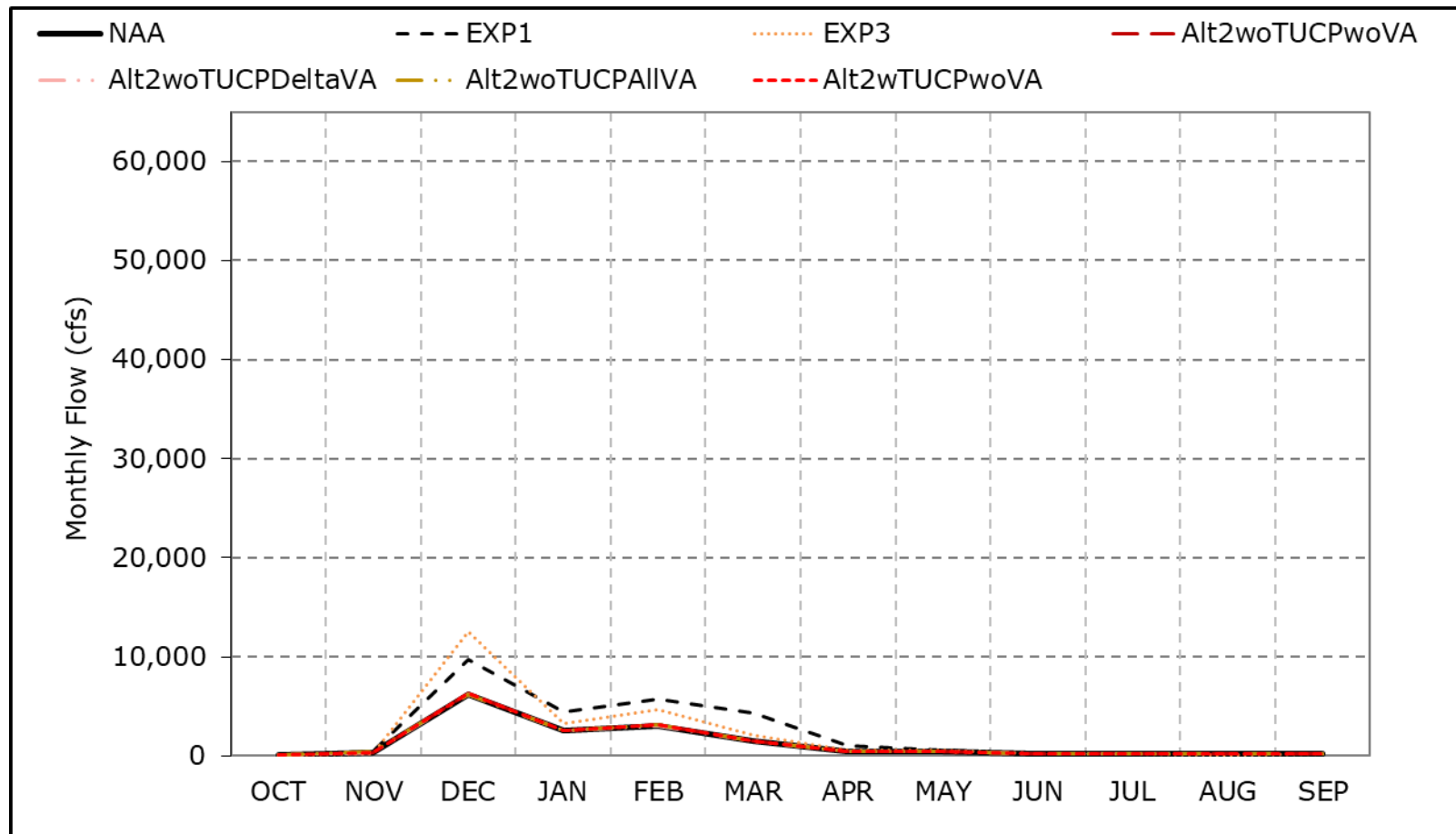


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-4. Yolo Bypass Flow, Below Normal Year Average Flow

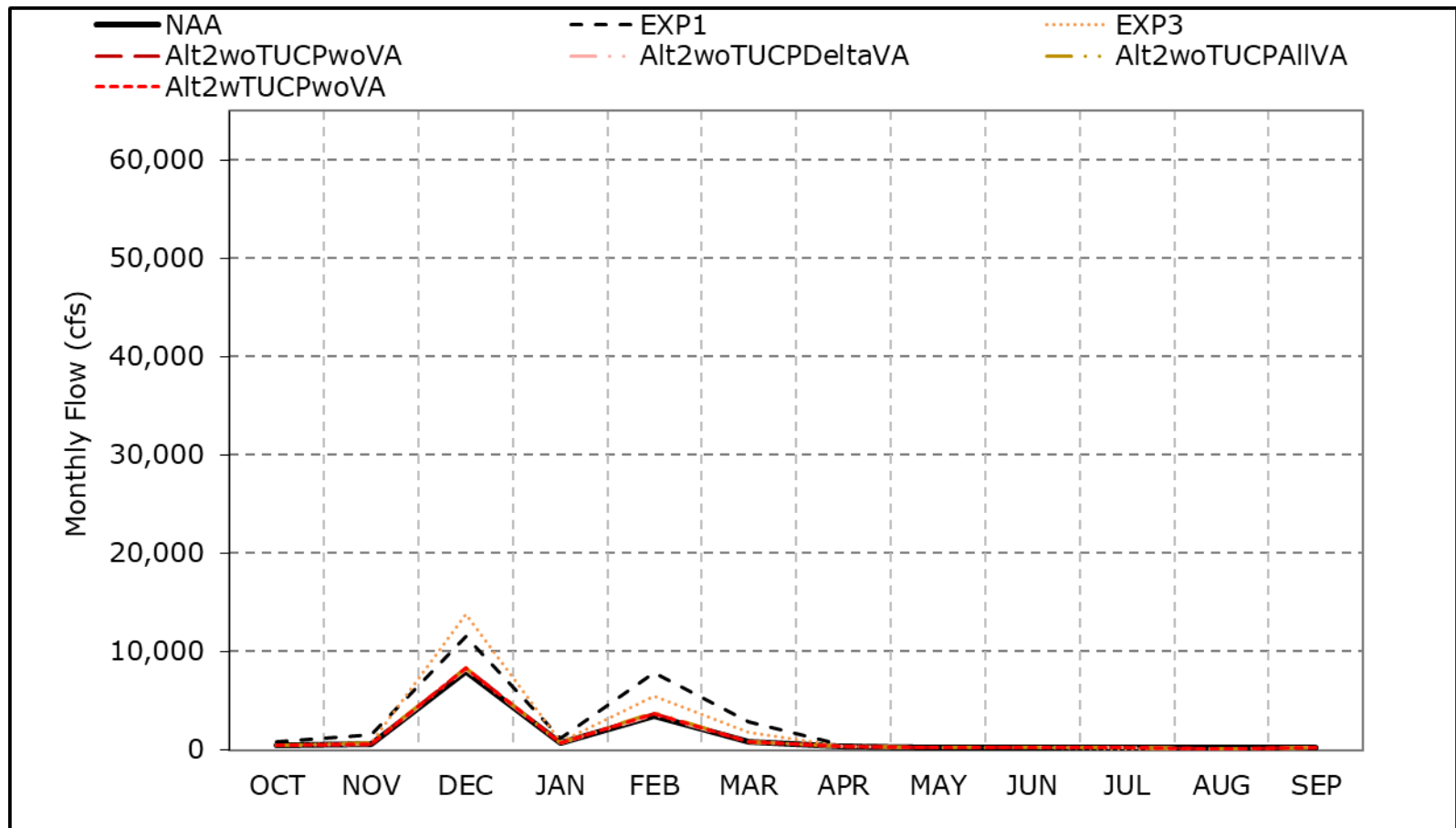


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-5. Yolo Bypass Flow, Dry Year Average Flow

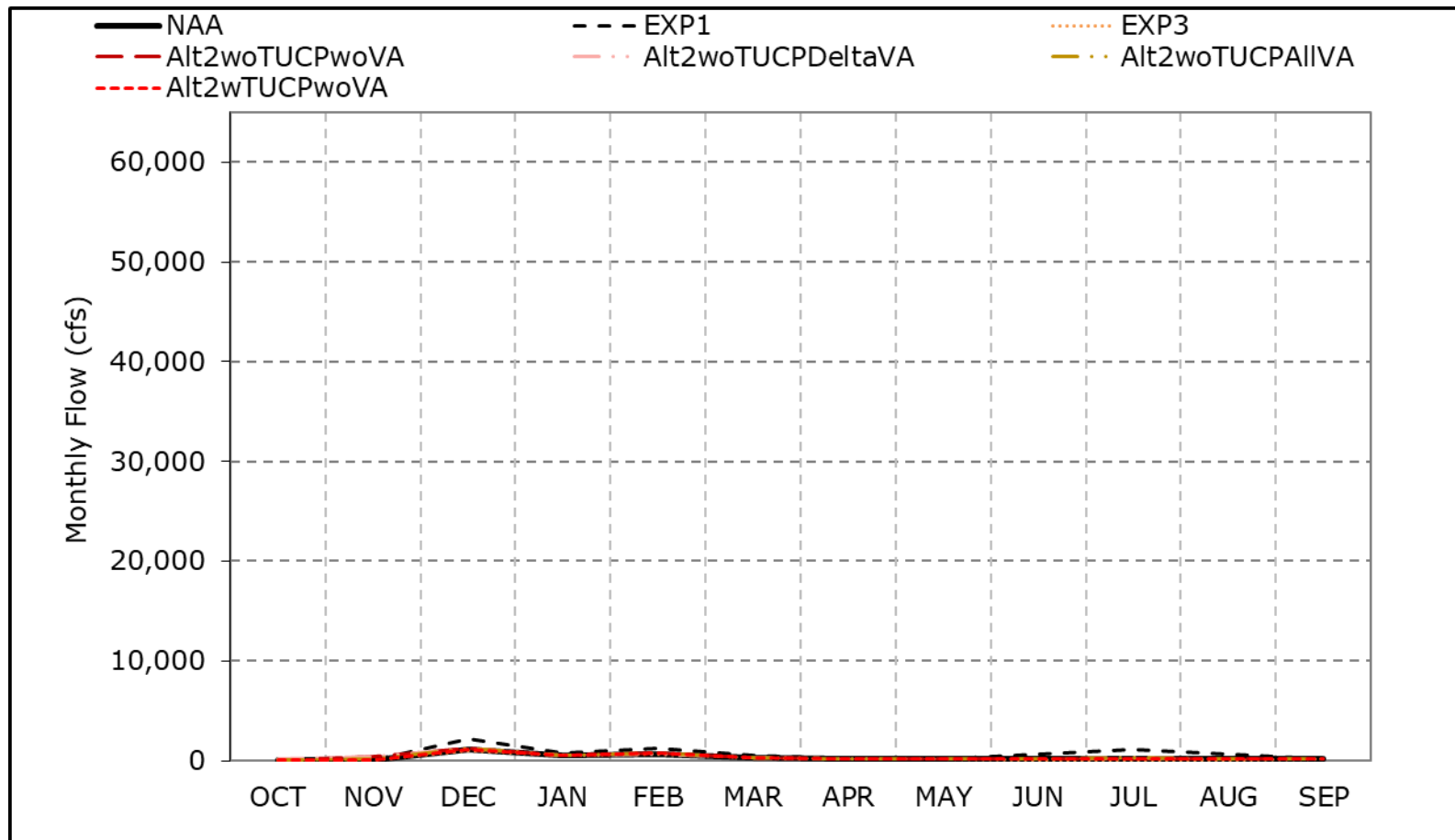


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-6. Yolo Bypass Flow, Critical Year Average Flow

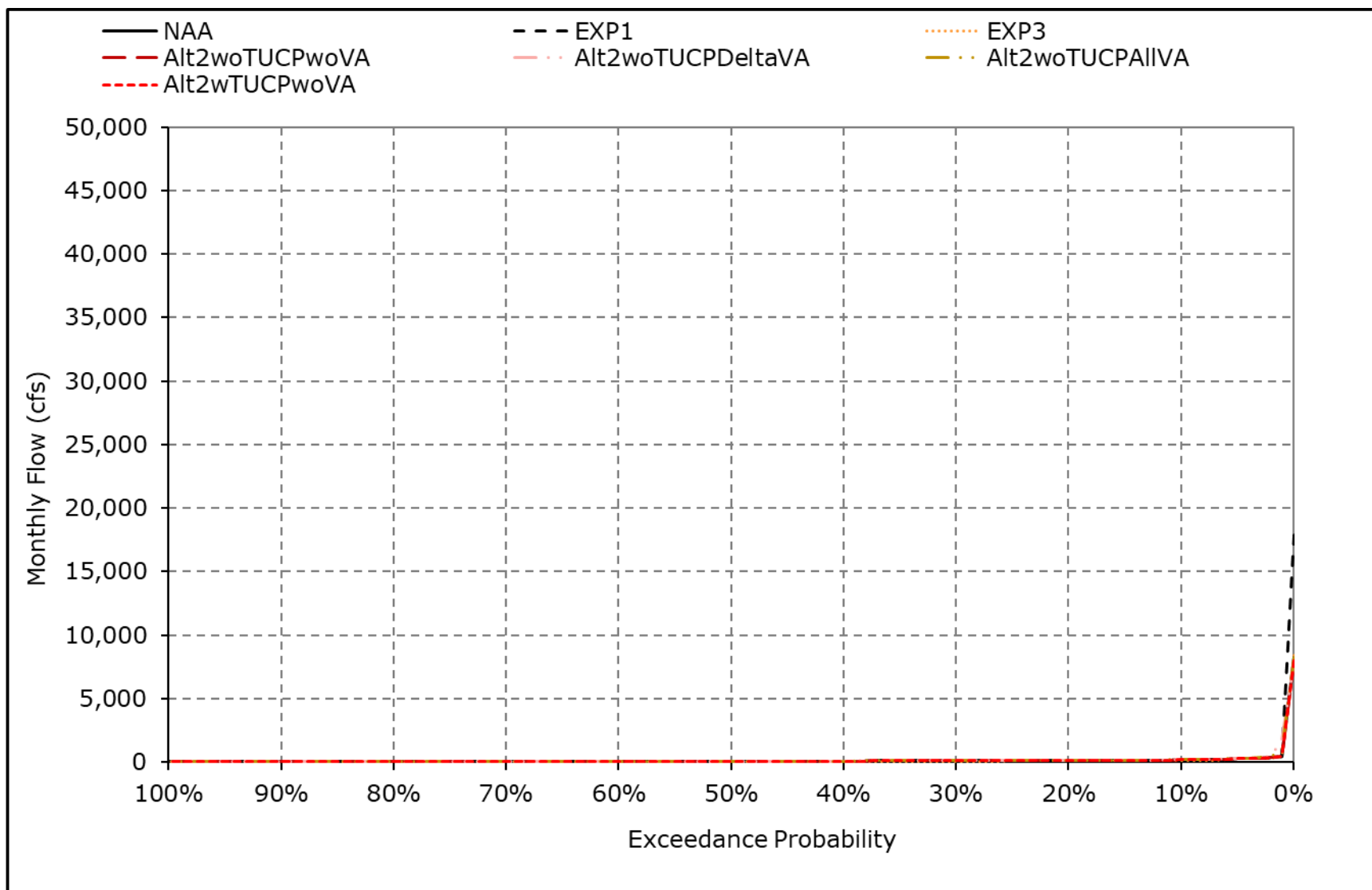


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

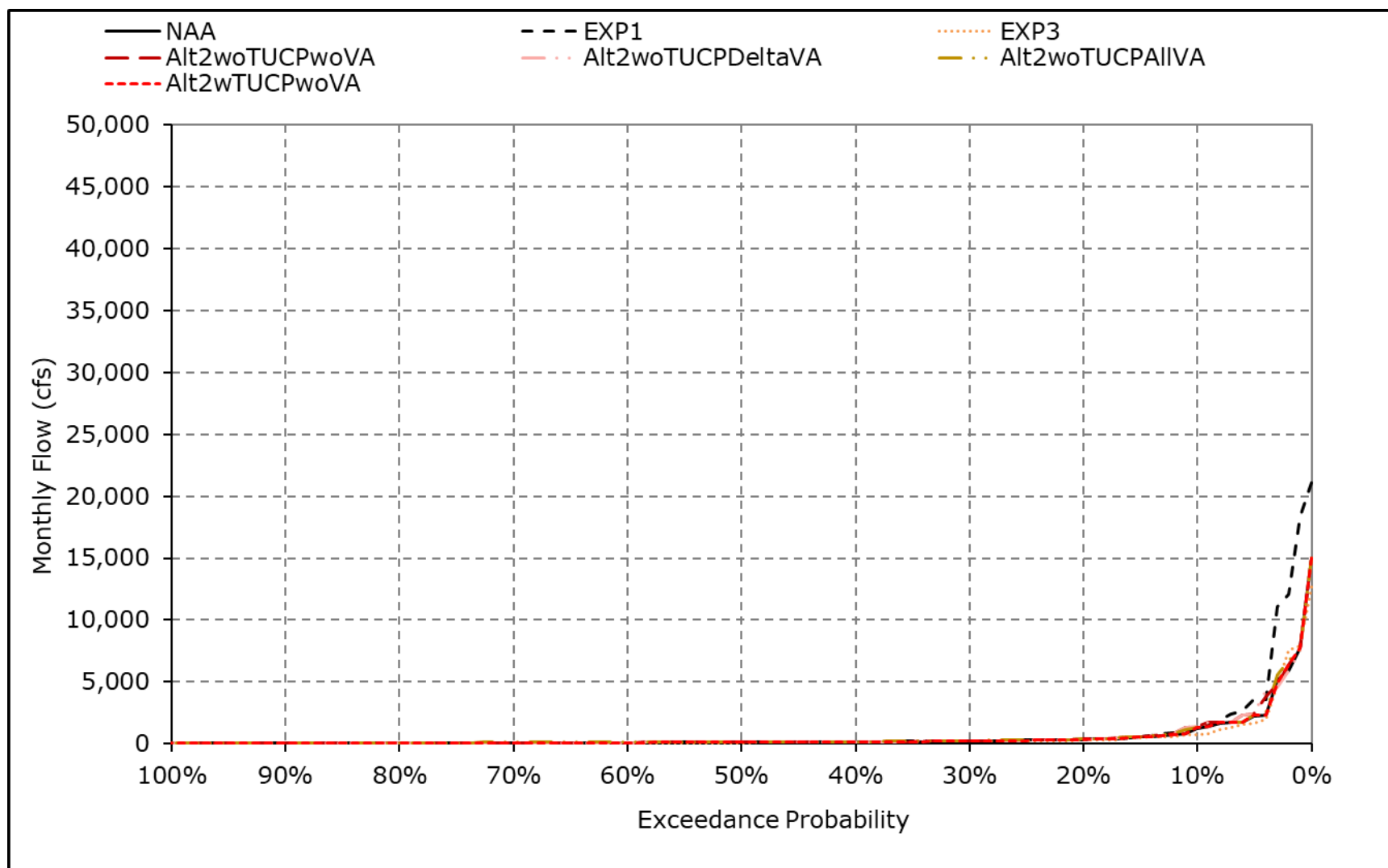
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-7. Yolo Bypass Flow, October



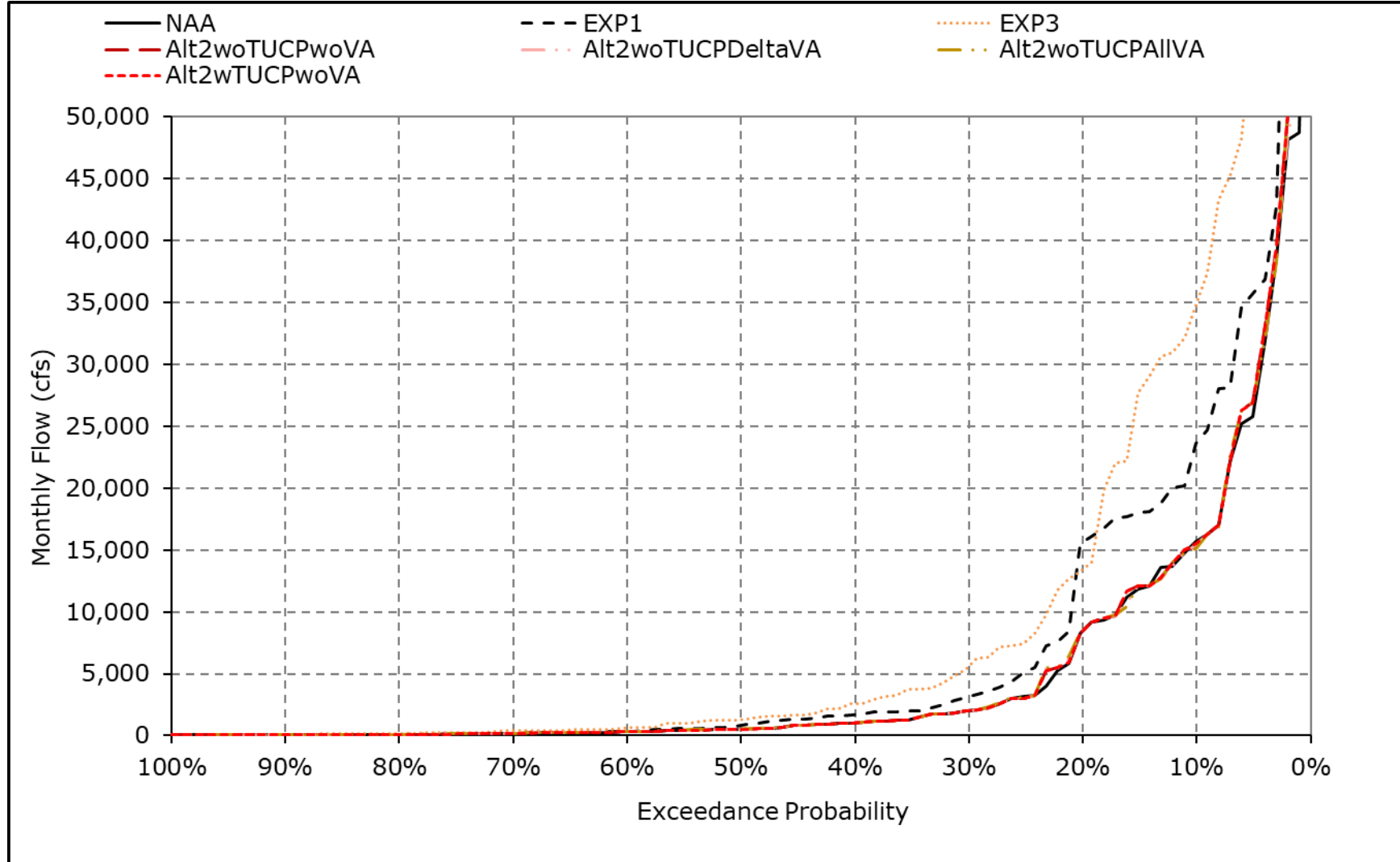
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-8. Yolo Bypass Flow, November



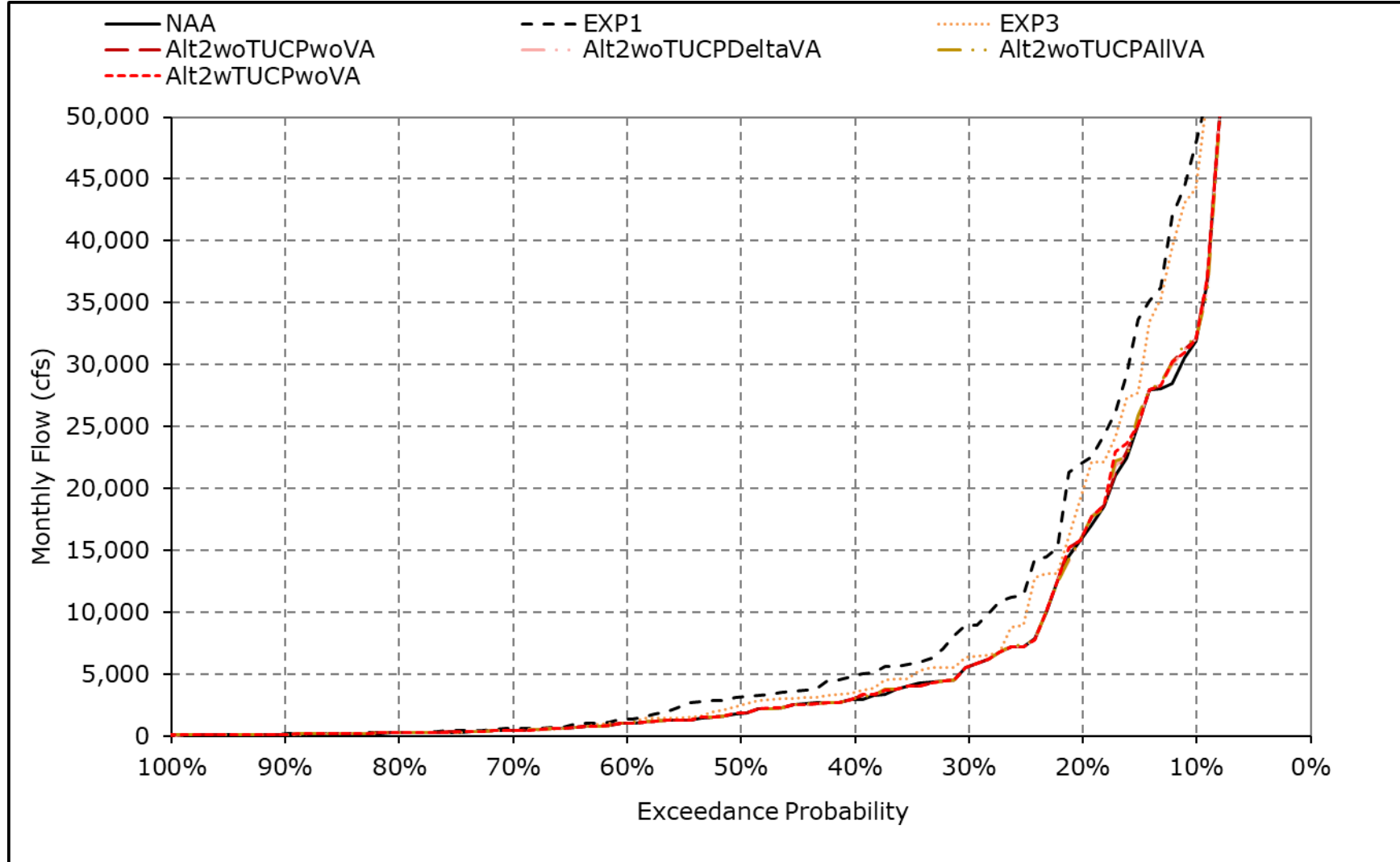
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-9. Yolo Bypass Flow, December



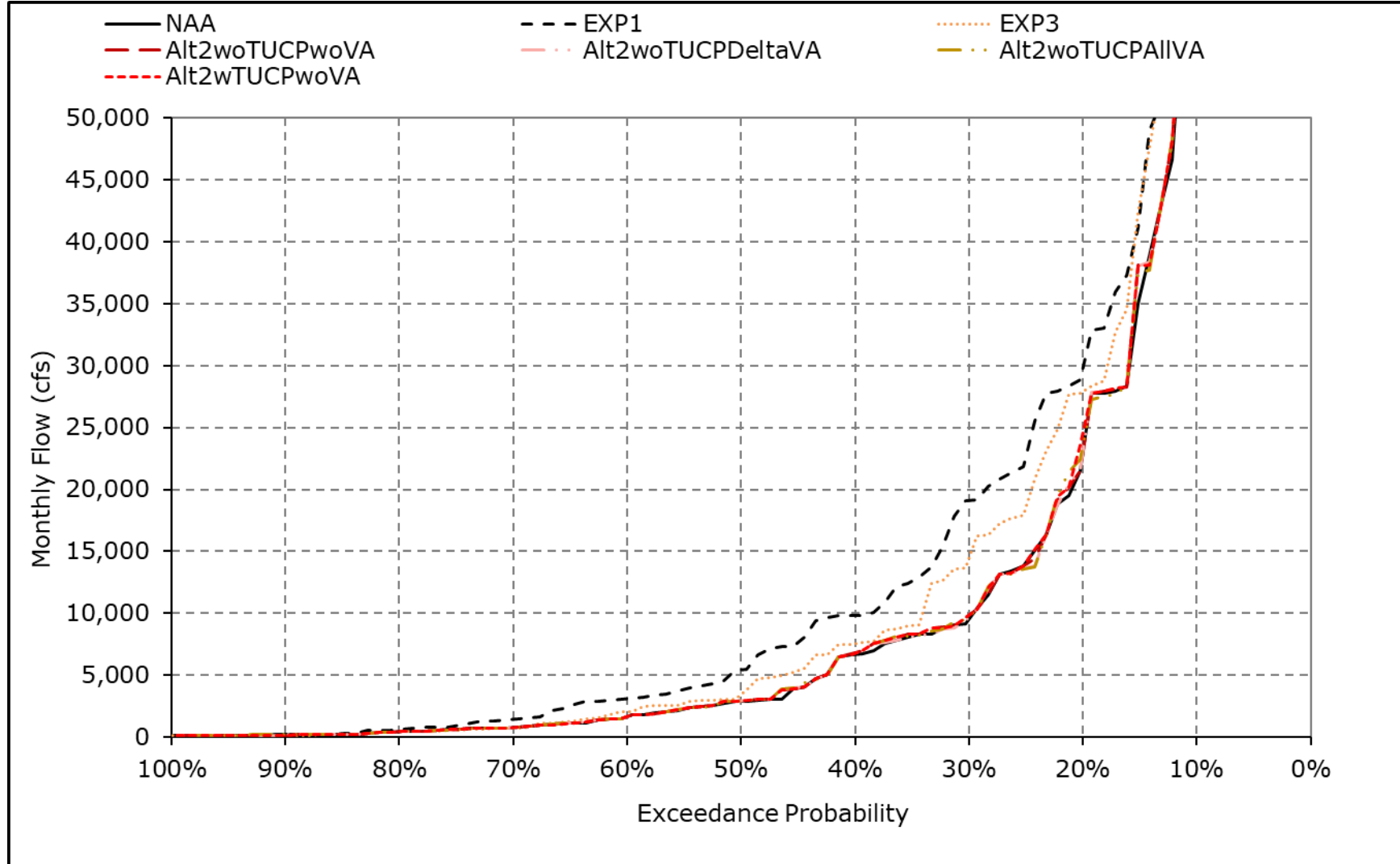
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-10. Yolo Bypass Flow, January



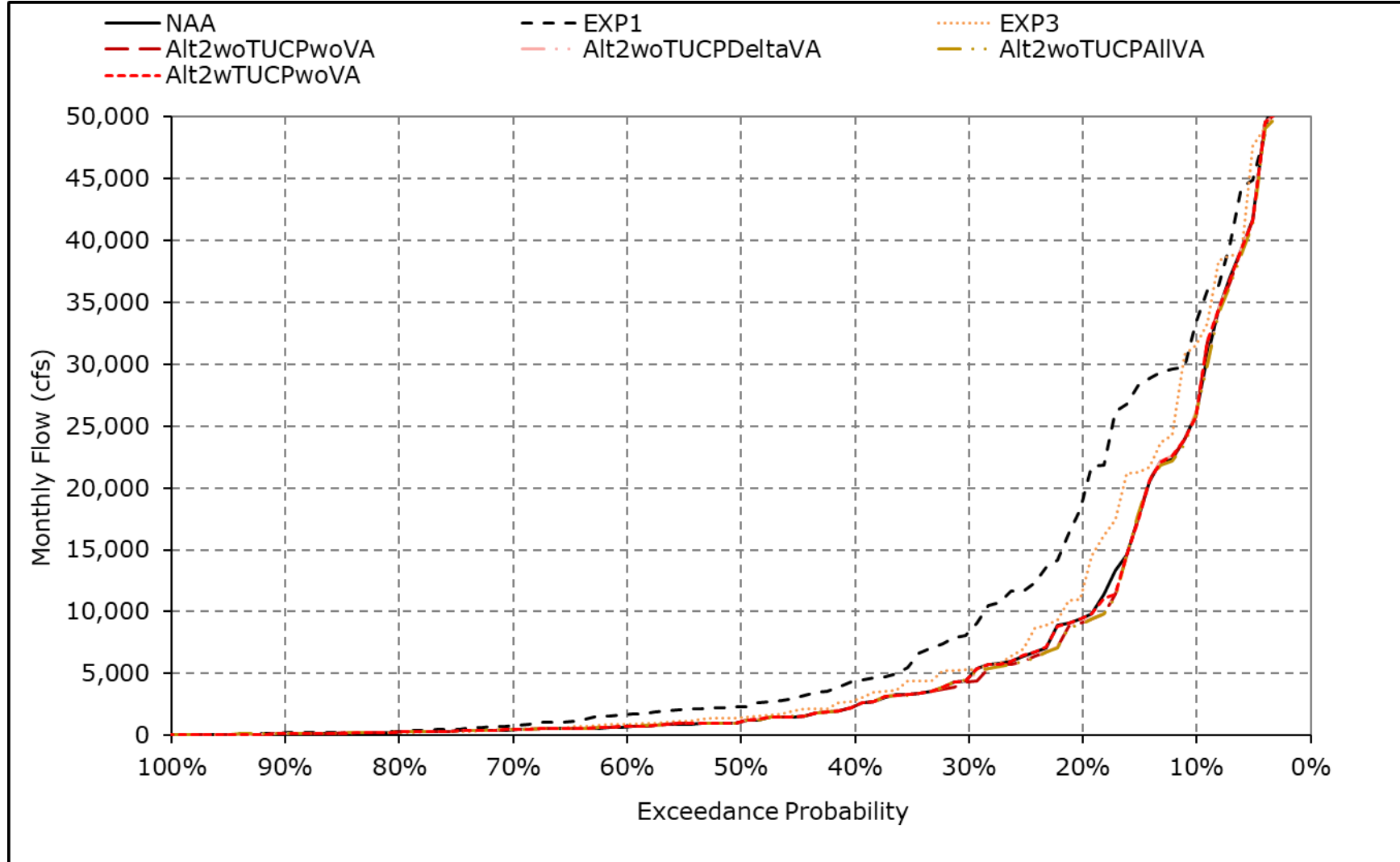
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-11. Yolo Bypass Flow, February



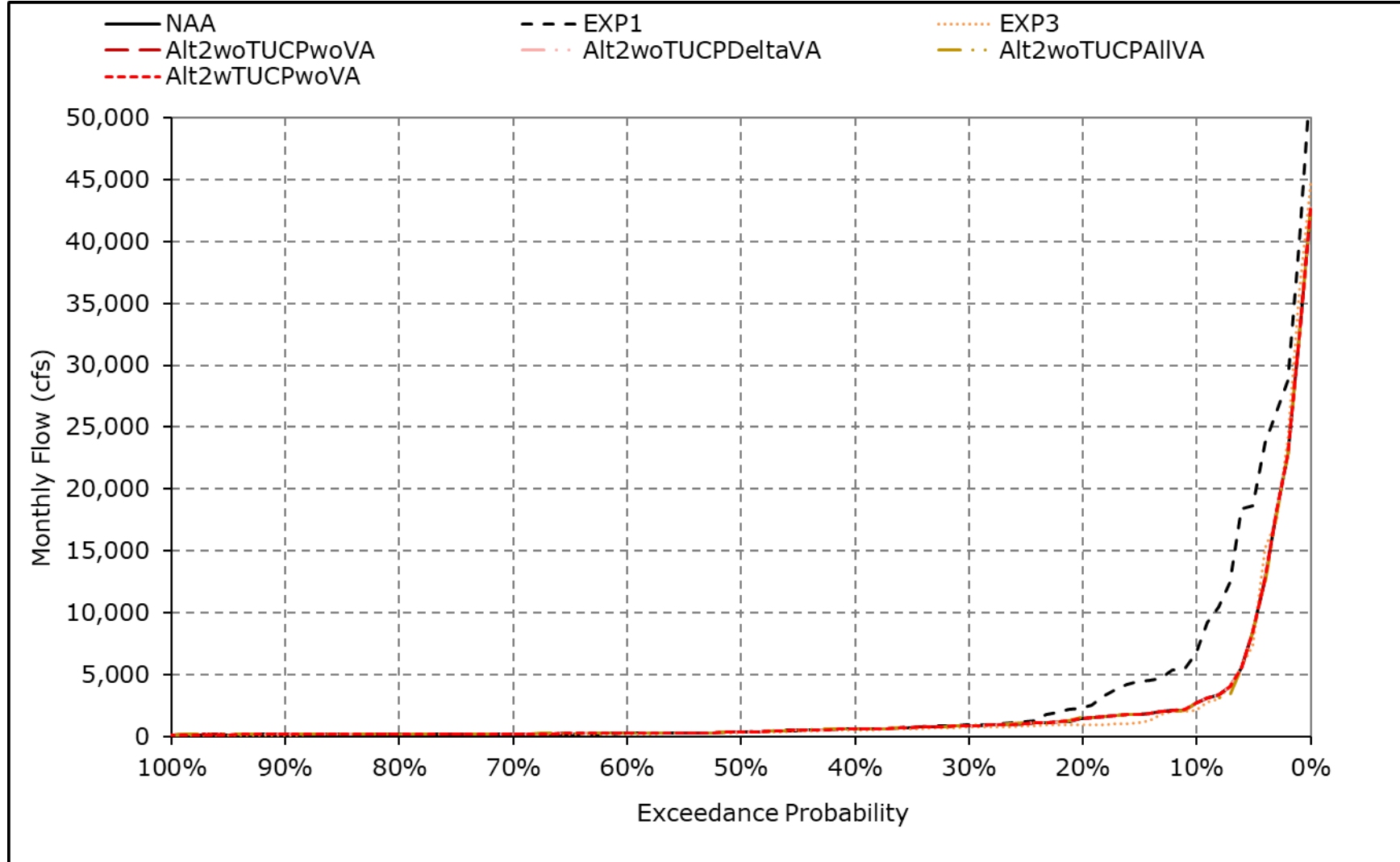
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-12. Yolo Bypass Flow, March



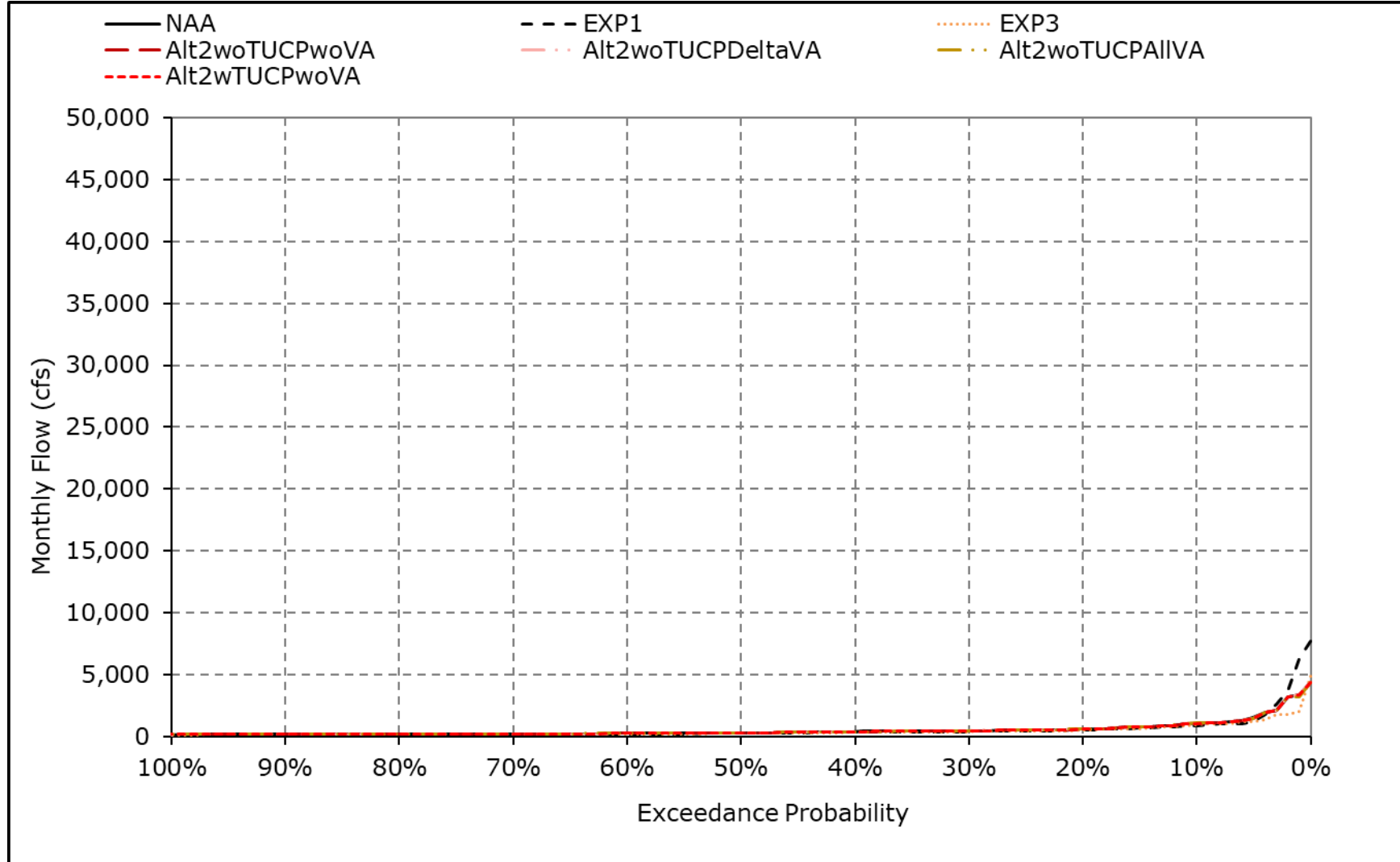
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-13. Yolo Bypass Flow, April



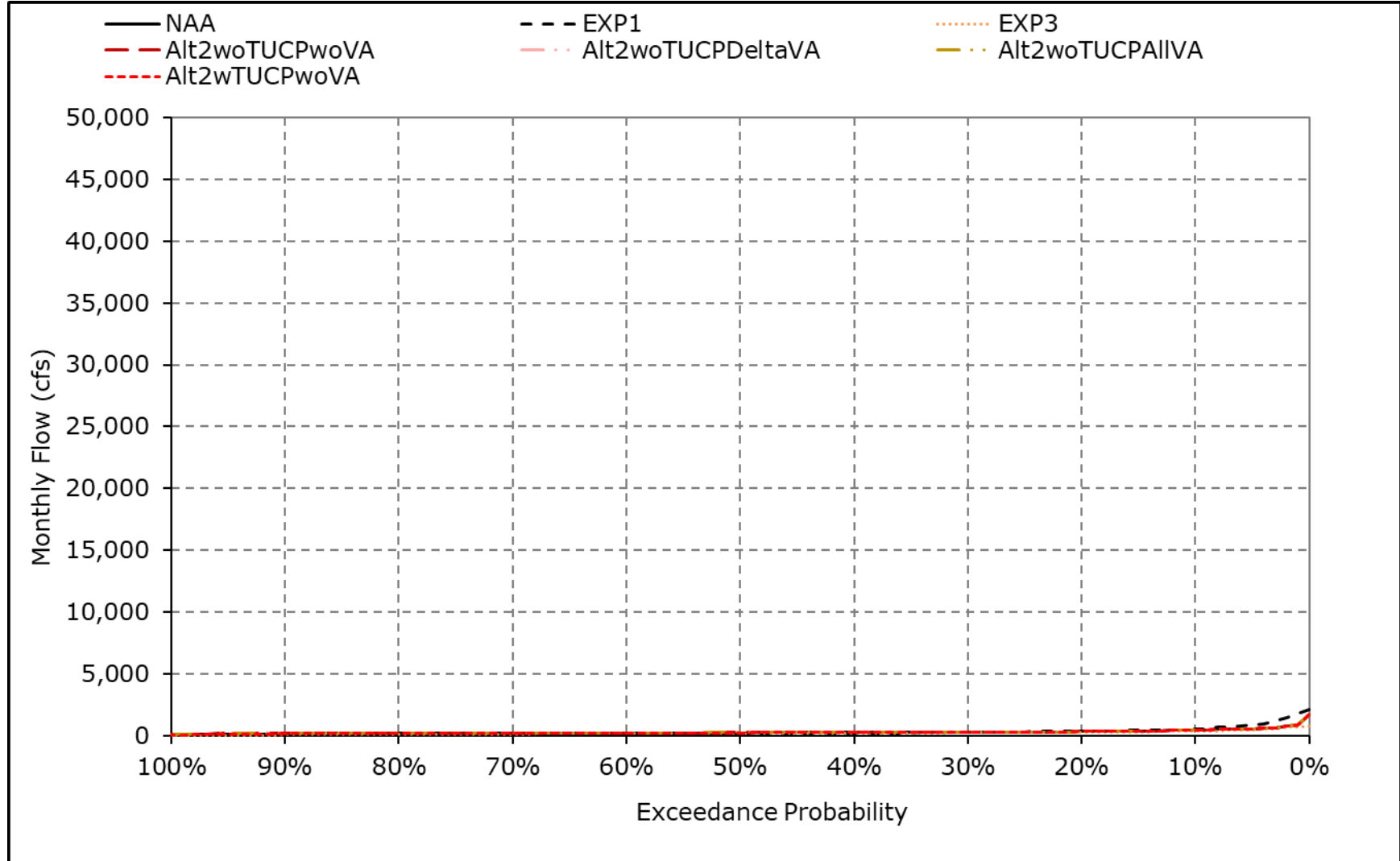
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-14. Yolo Bypass Flow, May



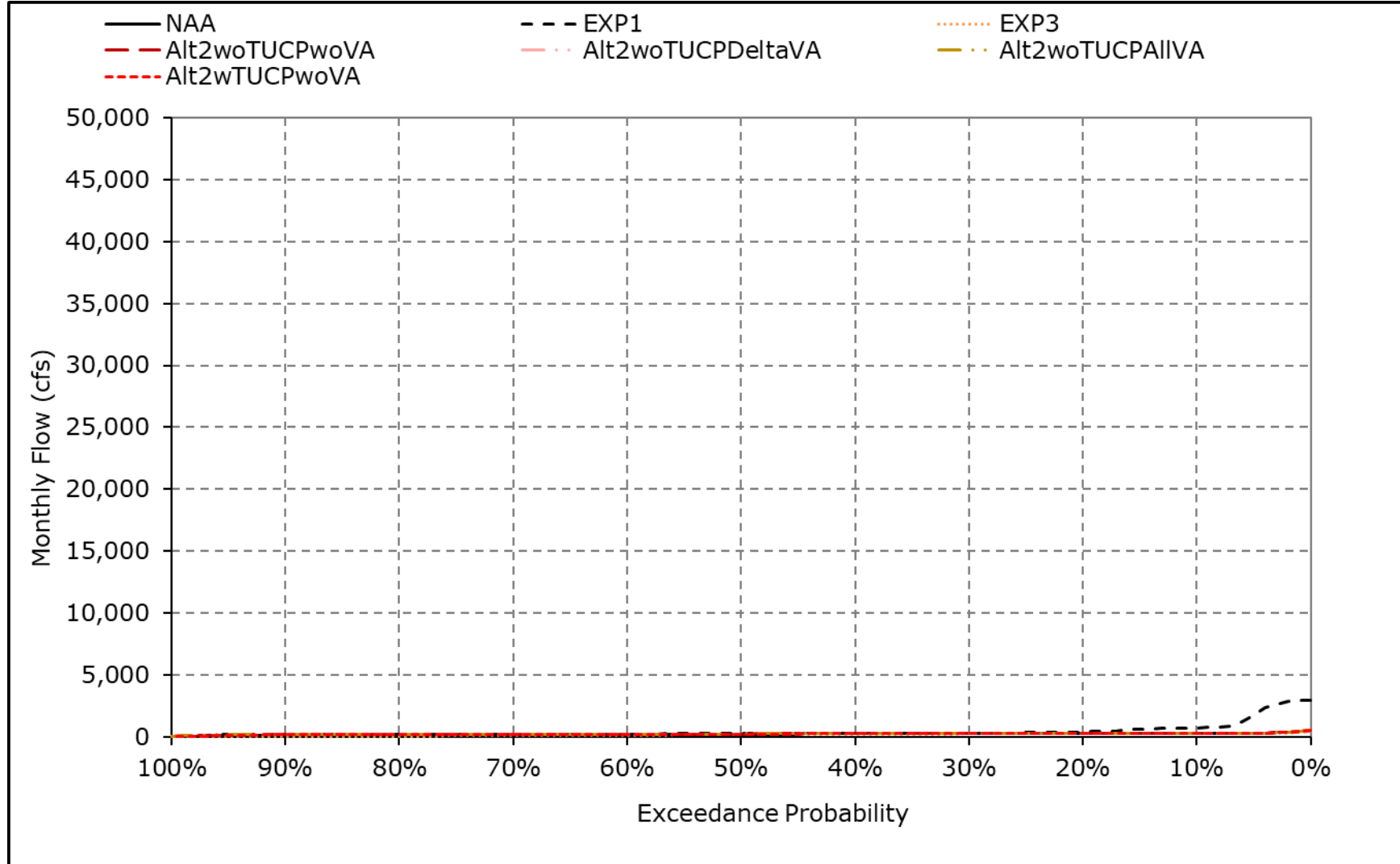
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-15. Yolo Bypass Flow, June



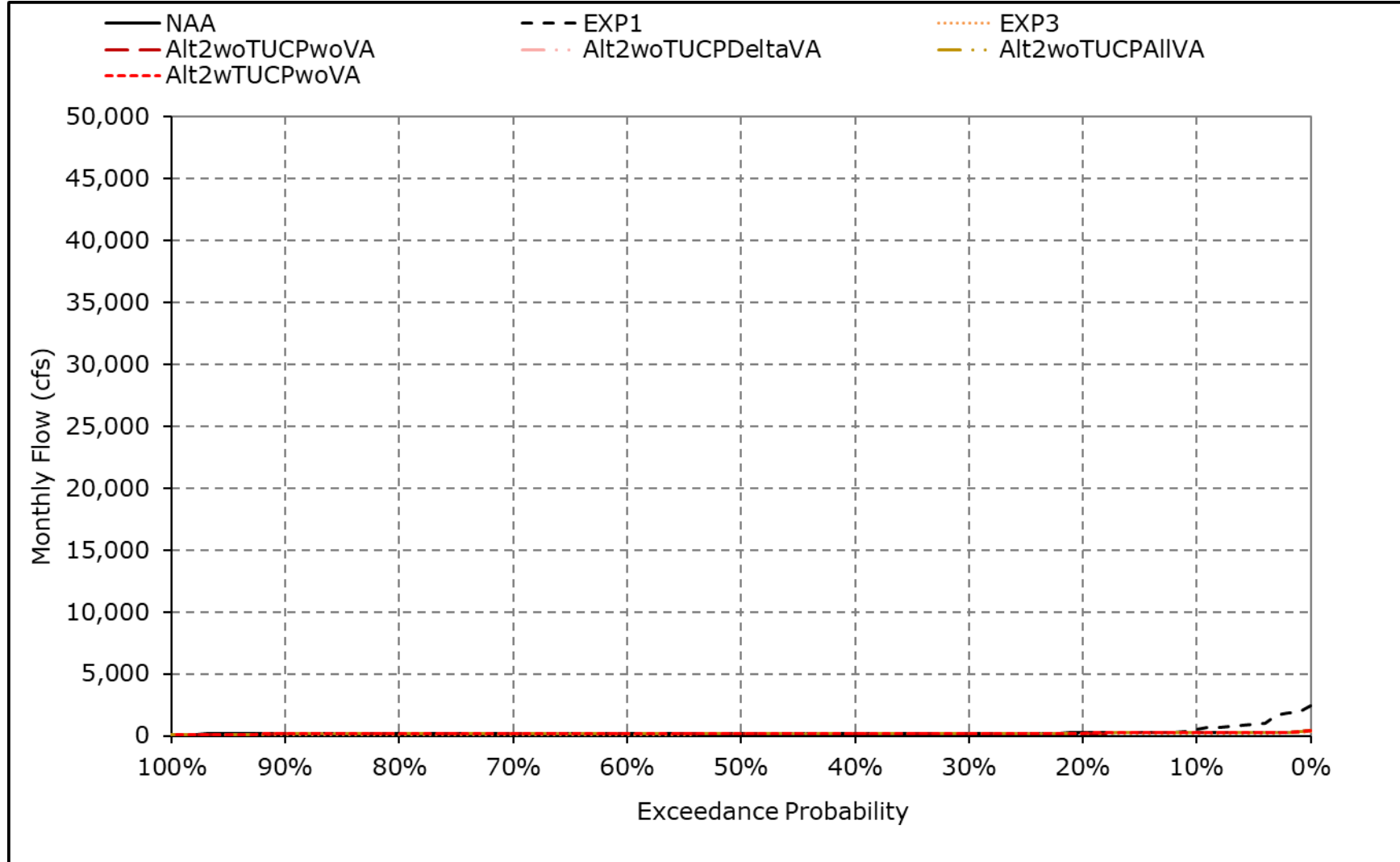
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-16. Yolo Bypass Flow, July



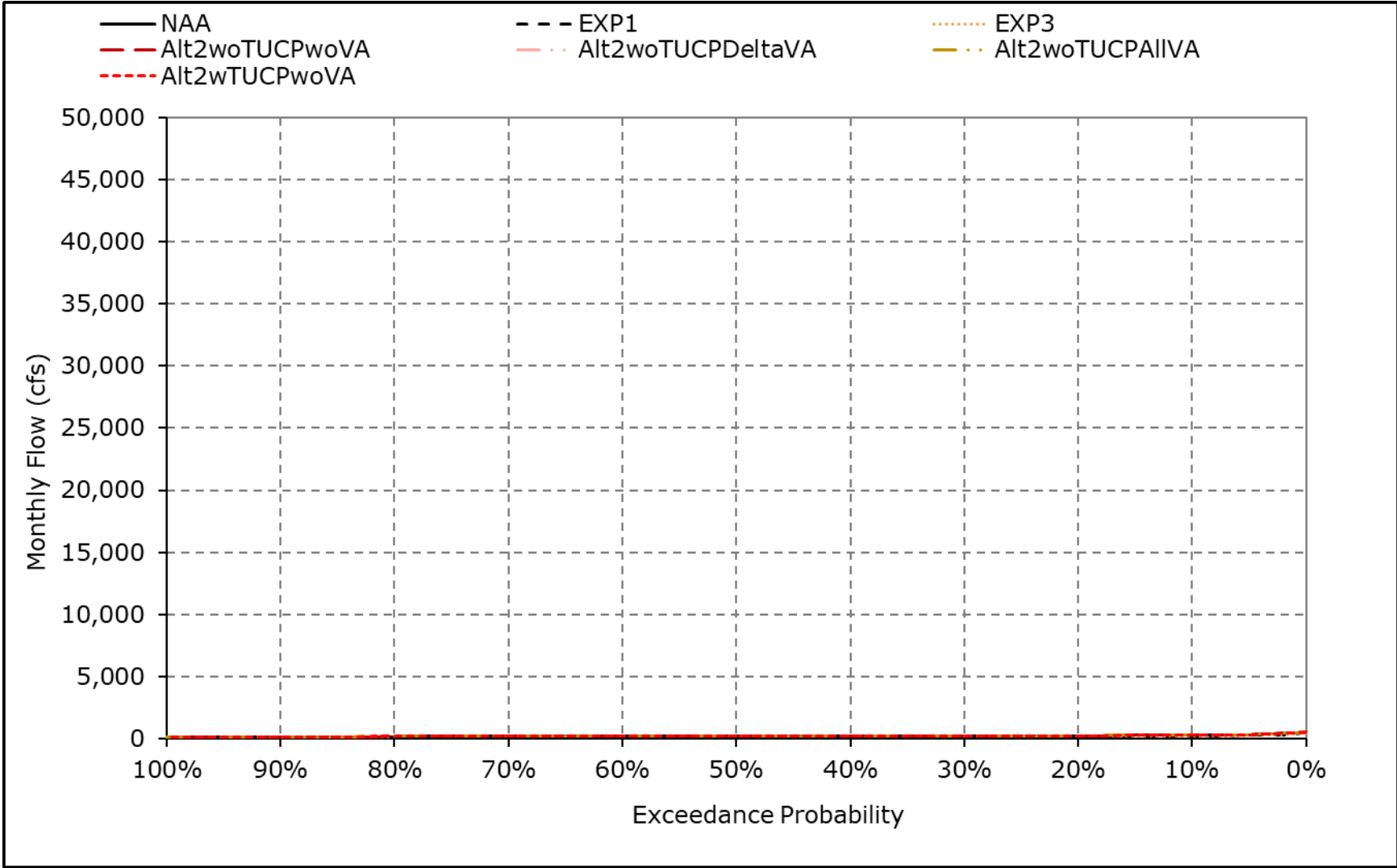
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-17. Yolo Bypass Flow, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-11-18. Yolo Bypass Flow, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-12-1a. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-1b. American River below Nimbus Dam Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,238	4,905	10,936	12,938	13,809	9,782	7,836	8,391	5,105	4,851	3,280	2,872
20% Exceedance	1,802	3,846	5,126	8,479	10,570	6,051	5,981	5,859	4,087	4,515	2,861	2,490
30% Exceedance	1,589	2,994	3,251	6,266	7,718	4,757	4,198	4,348	3,501	4,084	2,662	2,036
40% Exceedance	1,524	2,402	2,193	4,175	5,782	3,232	3,305	3,262	3,002	3,781	2,391	1,750
50% Exceedance	1,500	2,000	2,000	2,575	4,242	2,717	2,615	2,809	2,799	3,410	2,134	1,750
60% Exceedance	1,469	1,862	2,000	1,469	3,027	1,750	1,871	2,041	2,405	3,156	1,885	1,686
70% Exceedance	991	1,175	1,569	1,400	2,003	1,602	1,500	1,504	2,058	2,631	1,750	1,608
80% Exceedance	703	760	955	1,302	1,400	981	1,132	1,275	1,535	2,276	1,566	1,390
90% Exceedance	561	628	634	528	1,305	953	953	1,006	1,070	1,668	1,273	730
Full Simulation Period Average ^a	1,453	2,585	3,929	5,278	6,346	4,032	3,713	3,633	2,905	3,354	2,233	1,850
Wet Water Years (28%)	1,896	4,111	4,855	11,650	12,283	7,659	6,803	6,359	3,695	3,542	2,770	2,537
Above Normal Water Years (14%)	1,974	2,405	3,317	6,765	7,489	4,981	3,293	3,393	3,442	4,315	2,309	2,345
Below Normal Water Years (18%)	1,415	2,023	4,201	2,788	4,574	2,731	2,769	3,100	2,794	4,258	2,545	1,724
Dry Water Years (24%)	1,150	2,265	4,987	1,568	3,265	1,980	2,254	2,785	2,527	3,078	1,924	1,469
Critical Water Years (16%)	638	1,099	795	1,192	1,571	1,394	1,923	945	1,748	1,579	1,338	930

Table F.2.2-12-1c. American River below Nimbus Dam Flow, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-156	0	-30	0	0	0	0	0	97	-593	-34	47
20% Exceedance	51	87	164	186	2	387	0	-148	147	-387	35	-74
30% Exceedance	10	92	6	258	381	118	156	125	228	-212	26	18
40% Exceedance	24	54	-126	202	116	107	233	129	60	-62	53	0
50% Exceedance	0	0	0	-156	272	212	604	391	77	127	-24	0
60% Exceedance	-31	-115	0	-246	-41	0	371	177	76	220	-34	-42
70% Exceedance	-151	-151	-341	-6	184	12	230	4	146	99	-45	-35
80% Exceedance	-60	-280	-192	-98	-76	-451	-37	6	6	70	-109	-157
90% Exceedance	-56	-74	-54	-217	-95	0	0	-51	65	-61	-272	-187
Full Simulation Period Average ^a	-47	-27	-47	-36	29	9	162	50	65	-86	-52	-18
Wet Water Years (28%)	25	45	1	21	0	0	0	0	31	-89	-34	23
Above Normal Water Years (14%)	82	-14	-21	247	26	16	-3	69	131	-303	50	62
Below Normal Water Years (18%)	-163	12	89	-138	219	-50	-52	154	16	-299	96	-26
Dry Water Years (24%)	-77	-11	-180	-99	68	-97	82	293	-71	168	-44	-61
Critical Water Years (16%)	-123	-248	-116	-176	-188	245	953	-358	323	-34	-351	-85

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-2a. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-2b. American River below Nimbus Dam Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,298	4,857	10,939	12,928	13,808	9,775	7,815	8,371	4,976	5,002	3,280	2,845
20% Exceedance	1,723	3,750	5,120	8,677	10,594	6,092	6,001	5,886	3,969	4,486	2,814	2,518
30% Exceedance	1,578	3,299	3,177	6,211	7,443	4,750	4,140	4,150	3,373	4,075	2,563	2,076
40% Exceedance	1,500	2,323	2,181	4,245	5,761	3,226	3,293	3,190	3,030	3,720	2,401	1,750
50% Exceedance	1,500	2,000	2,000	2,722	4,171	2,766	2,395	2,578	2,794	3,415	2,138	1,750
60% Exceedance	1,469	1,804	2,000	1,451	3,190	1,750	1,634	1,867	2,454	3,071	1,830	1,708
70% Exceedance	942	1,175	1,568	1,400	1,909	1,602	1,500	1,500	2,006	2,525	1,750	1,621
80% Exceedance	656	746	907	1,302	1,400	981	1,078	1,250	1,531	2,211	1,571	1,499
90% Exceedance	561	628	634	531	1,305	953	953	1,006	1,143	1,689	1,250	734
Full Simulation Period Average ^a	1,438	2,560	3,912	5,305	6,343	4,035	3,658	3,567	2,884	3,352	2,228	1,865
Wet Water Years (28%)	1,889	4,132	4,842	11,642	12,292	7,657	6,804	6,314	3,660	3,525	2,727	2,535
Above Normal Water Years (14%)	1,908	2,425	3,308	6,827	7,530	4,978	3,274	3,301	3,356	4,393	2,169	2,373
Below Normal Water Years (18%)	1,445	2,056	4,161	2,729	4,429	2,758	2,739	2,983	2,767	4,204	2,566	1,731
Dry Water Years (24%)	1,132	2,149	4,984	1,558	3,329	2,003	2,165	2,705	2,565	3,064	1,959	1,484
Critical Water Years (16%)	610	1,026	763	1,401	1,567	1,358	1,762	944	1,725	1,611	1,428	968

Table F.2.2-12-2c. American River below Nimbus Dam Flow, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-96	-48	-27	-9	-1	-7	-21	-20	-32	-443	-34	20
20% Exceedance	-28	-10	158	384	25	428	20	-121	29	-416	-11	-45
30% Exceedance	-1	398	-69	203	106	111	97	-73	100	-221	-73	58
40% Exceedance	0	-26	-138	273	94	101	221	57	89	-123	63	0
50% Exceedance	0	0	0	-10	202	261	385	160	72	132	-21	0
60% Exceedance	-31	-173	0	-264	122	0	134	3	125	136	-89	-20
70% Exceedance	-200	-151	-342	-6	91	12	230	0	93	-7	-45	-21
80% Exceedance	-106	-294	-239	-98	-76	-451	-91	-19	2	6	-104	-49
90% Exceedance	-56	-74	-54	-214	-95	0	0	-51	138	-41	-295	-183
Full Simulation Period Average ^a	-62	-52	-65	-9	26	13	108	-15	43	-88	-57	-4
Wet Water Years (28%)	19	65	-12	14	9	-2	1	-44	-4	-106	-78	21
Above Normal Water Years (14%)	15	7	-31	309	67	13	-21	-23	45	-225	-90	90
Below Normal Water Years (18%)	-133	44	49	-198	73	-22	-82	37	-11	-353	116	-19
Dry Water Years (24%)	-95	-128	-183	-109	131	-73	-7	213	-33	154	-9	-45
Critical Water Years (16%)	-151	-322	-147	33	-192	209	793	-358	299	-3	-260	-47

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-3a. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-3b. American River below Nimbus Dam Flow, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,366	4,716	11,176	12,904	13,806	9,774	7,839	8,382	4,964	5,263	3,221	2,845
20% Exceedance	1,733	3,884	5,114	8,806	10,909	6,146	6,012	6,009	3,864	4,475	2,816	2,448
30% Exceedance	1,578	3,097	3,231	6,226	7,443	4,782	4,226	4,157	3,362	4,052	2,433	2,076
40% Exceedance	1,500	2,631	2,224	4,169	5,754	3,265	3,396	3,235	3,042	3,664	2,262	1,750
50% Exceedance	1,500	2,000	2,000	2,722	4,149	2,809	2,611	2,652	2,843	3,300	1,966	1,733
60% Exceedance	1,463	1,859	2,000	1,521	3,074	1,800	1,660	1,887	2,432	2,935	1,777	1,694
70% Exceedance	991	1,175	1,682	1,400	2,061	1,677	1,498	1,550	2,089	2,485	1,734	1,621
80% Exceedance	691	760	907	1,380	1,400	1,082	1,147	1,385	1,534	2,210	1,578	1,503
90% Exceedance	561	628	634	531	1,270	1,010	1,056	1,121	1,208	1,721	1,233	727
Full Simulation Period Average ^a	1,453	2,616	3,944	5,310	6,343	4,097	3,722	3,621	2,887	3,310	2,159	1,852
Wet Water Years (28%)	1,879	4,121	4,841	11,607	12,293	7,675	6,809	6,334	3,659	3,540	2,721	2,522
Above Normal Water Years (14%)	1,950	2,415	3,331	6,908	7,525	5,029	3,325	3,366	3,396	4,297	2,103	2,259
Below Normal Water Years (18%)	1,465	2,065	4,196	2,740	4,401	2,826	2,827	2,972	2,789	4,181	2,408	1,797
Dry Water Years (24%)	1,140	2,379	5,076	1,582	3,389	2,116	2,274	2,775	2,534	2,934	1,863	1,464
Critical Water Years (16%)	646	1,048	772	1,374	1,512	1,419	1,844	1,098	1,730	1,625	1,389	966

Table F.2.2-12-3c. American River below Nimbus Dam Flow, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-28	-190	210	-34	-3	-7	3	-8	-44	-182	-94	20
20% Exceedance	-18	124	151	514	341	482	31	2	-77	-426	-10	-115
30% Exceedance	-1	196	-15	218	106	143	184	-67	89	-243	-203	58
40% Exceedance	0	282	-95	197	88	140	324	102	100	-179	-76	0
50% Exceedance	0	0	0	-10	180	304	601	234	121	17	-192	-17
60% Exceedance	-37	-118	0	-194	6	50	160	23	104	0	-142	-34
70% Exceedance	-151	-151	-228	-6	242	87	228	50	176	-47	-61	-21
80% Exceedance	-71	-280	-239	-20	-76	-350	-22	116	5	4	-97	-44
90% Exceedance	-56	-74	-54	-214	-130	58	103	65	203	-9	-312	-190
Full Simulation Period Average ^a	-47	4	-32	-4	26	74	171	39	46	-131	-126	-16
Wet Water Years (28%)	9	54	-12	-21	10	16	6	-25	-4	-91	-83	8
Above Normal Water Years (14%)	58	-3	-8	389	62	64	30	42	85	-321	-157	-24
Below Normal Water Years (18%)	-113	53	84	-186	46	45	5	25	11	-376	-41	47
Dry Water Years (24%)	-87	103	-92	-85	192	40	102	283	-63	24	-105	-65
Critical Water Years (16%)	-115	-300	-139	6	-247	270	874	-204	305	12	-300	-50

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-4a. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-4b. American River below Nimbus Dam Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,384	4,905	10,936	12,938	13,809	9,782	7,836	8,391	5,108	4,860	3,264	2,869
20% Exceedance	1,841	3,833	5,126	8,627	10,570	6,051	5,981	6,014	4,014	4,651	2,850	2,494
30% Exceedance	1,630	2,995	3,253	6,266	7,330	4,639	4,015	4,411	3,301	4,096	2,707	1,961
40% Exceedance	1,524	2,287	2,228	4,175	5,784	3,125	3,254	3,298	2,970	3,781	2,441	1,750
50% Exceedance	1,500	2,000	2,000	2,731	4,245	2,393	2,186	2,849	2,742	3,424	2,170	1,750
60% Exceedance	1,469	1,890	2,000	1,536	3,067	1,750	1,500	2,075	2,321	3,175	1,920	1,686
70% Exceedance	942	1,175	1,784	1,400	2,109	1,602	1,151	1,542	2,013	2,603	1,775	1,608
80% Exceedance	698	823	1,113	1,396	1,400	953	953	1,426	1,546	2,319	1,677	1,416
90% Exceedance	581	646	636	691	1,305	953	921	1,006	1,027	1,728	1,375	730
Full Simulation Period Average ^a	1,471	2,592	3,977	5,343	6,349	3,976	3,541	3,685	2,859	3,391	2,261	1,848
Wet Water Years (28%)	1,895	4,116	4,858	11,650	12,284	7,659	6,803	6,359	3,689	3,541	2,767	2,536
Above Normal Water Years (14%)	1,963	2,406	3,314	6,792	7,491	4,981	3,292	3,393	3,453	4,307	2,330	2,347
Below Normal Water Years (18%)	1,505	2,000	4,182	2,855	4,567	2,731	2,770	3,084	2,795	4,274	2,558	1,724
Dry Water Years (24%)	1,148	2,253	4,987	1,569	3,274	1,979	2,238	2,783	2,524	3,087	1,919	1,469
Critical Water Years (16%)	662	1,189	1,132	1,500	1,581	1,046	870	1,293	1,461	1,787	1,495	918

Table F.2.2-12-4c. American River below Nimbus Dam Flow, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-10	0	-30	0	0	0	0	0	100	-584	-50	44
20% Exceedance	90	74	164	334	2	387	0	7	74	-251	24	-70
30% Exceedance	51	94	8	258	-7	0	-27	187	28	-199	71	-57
40% Exceedance	24	-61	-91	203	117	0	183	165	28	-62	103	0
50% Exceedance	0	0	0	0	275	-112	175	431	21	141	11	0
60% Exceedance	-31	-87	0	-178	0	0	0	211	-7	239	1	-42
70% Exceedance	-200	-151	-126	-6	290	12	-119	42	100	72	-20	-35
80% Exceedance	-65	-218	-34	-4	-76	-479	-216	157	17	113	2	-132
90% Exceedance	-37	-56	-53	-54	-95	0	-32	-51	22	-2	-170	-187
Full Simulation Period Average ^a	-30	-20	0	29	32	-47	-10	103	18	-49	-24	-20
Wet Water Years (28%)	25	49	5	22	0	0	0	0	25	-91	-37	22
Above Normal Water Years (14%)	70	-12	-24	274	28	16	-3	69	142	-311	70	64
Below Normal Water Years (18%)	-73	-12	70	-71	212	-50	-52	137	16	-283	108	-26
Dry Water Years (24%)	-79	-24	-180	-99	76	-97	66	291	-74	177	-49	-61
Critical Water Years (16%)	-99	-159	222	132	-178	-104	-99	-9	36	174	-194	-98

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-5a. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-5b. American River below Nimbus Dam Flow, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,500	7,925	11,419	12,967	13,839	9,810	7,870	8,435	4,742	5,207	1,780	1,750
20% Exceedance	1,500	7,357	5,265	9,434	11,036	6,082	6,014	6,054	2,917	4,622	1,750	1,750
30% Exceedance	1,500	5,750	4,006	6,622	7,748	4,668	4,104	4,319	2,354	4,070	1,750	1,750
40% Exceedance	1,500	4,423	3,069	4,196	6,186	3,087	2,732	2,511	1,754	3,427	1,750	1,750
50% Exceedance	1,500	3,623	2,443	3,211	4,561	2,162	1,500	1,512	1,519	3,129	1,750	1,750
60% Exceedance	1,478	2,629	2,000	2,368	3,360	1,750	1,386	1,448	1,492	2,623	1,750	1,720
70% Exceedance	1,040	2,000	2,000	1,651	2,161	1,597	1,217	1,228	1,244	2,458	1,648	1,642
80% Exceedance	732	952	1,744	1,400	1,746	1,432	1,100	1,076	957	2,117	1,566	1,555
90% Exceedance	602	692	702	1,306	1,400	973	953	972	848	1,775	1,307	879
Full Simulation Period Average ^a	1,314	4,325	4,421	5,669	6,566	4,041	3,476	3,374	2,109	3,264	1,652	1,611
Wet Water Years (28%)	1,612	6,608	4,978	11,868	12,316	7,685	6,835	6,391	3,323	3,295	1,783	1,868
Above Normal Water Years (14%)	1,488	3,803	4,101	7,092	7,638	5,018	3,312	3,268	2,326	4,501	1,747	1,747
Below Normal Water Years (18%)	1,407	3,329	4,841	3,409	4,699	2,801	2,851	2,586	1,787	4,110	1,879	1,721
Dry Water Years (24%)	1,192	4,428	5,602	2,121	3,759	2,058	1,795	1,892	1,463	2,801	1,587	1,528
Critical Water Years (16%)	666	1,616	1,306	1,440	1,877	1,179	970	1,298	1,128	1,868	1,179	1,047

Table F.2.2-12-5c. American River below Nimbus Dam Flow, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-894	3,020	453	29	30	28	34	44	-265	-237	-1,534	-1,075
20% Exceedance	-251	3,597	302	1,141	468	418	33	47	-1,023	-279	-1,076	-814
30% Exceedance	-79	2,849	761	613	411	29	61	96	-919	-226	-886	-268
40% Exceedance	0	2,075	750	224	519	-38	-340	-622	-1,187	-416	-587	0
50% Exceedance	0	1,623	443	480	592	-344	-510	-906	-1,202	-155	-408	0
60% Exceedance	-22	652	0	653	292	0	-114	-416	-836	-312	-169	-8
70% Exceedance	-102	673	90	245	342	7	-54	-272	-669	-73	-147	0
80% Exceedance	-30	-88	597	0	270	0	-69	-193	-572	-88	-109	7
90% Exceedance	-15	-10	13	561	0	20	0	-84	-158	46	-238	-38
Full Simulation Period Average ^a	-186	1,713	444	355	249	19	-74	-208	-732	-177	-633	-257
Wet Water Years (28%)	-258	2,541	124	240	32	26	31	33	-341	-337	-1,021	-646
Above Normal Water Years (14%)	-404	1,385	762	574	175	53	17	-56	-985	-117	-513	-536
Below Normal Water Years (18%)	-170	1,318	729	483	344	20	29	-361	-991	-447	-570	-29
Dry Water Years (24%)	-35	2,152	434	453	562	-19	-377	-600	-1,134	-108	-381	-2
Critical Water Years (16%)	-95	269	396	72	118	30	0	-4	-297	255	-510	31

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-6a. American River below Nimbus Dam Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,841	4,003	11,418	12,478	13,844	12,885	10,336	9,606	4,240	1,665	1,861	2,111
20% Exceedance	1,486	2,442	6,294	9,792	11,048	9,178	8,559	7,269	2,887	1,528	1,750	1,821
30% Exceedance	1,301	1,813	4,219	6,629	7,832	7,753	7,093	5,656	2,357	1,413	1,500	1,610
40% Exceedance	1,167	1,529	3,730	4,314	6,260	6,176	5,433	4,074	1,969	1,289	1,346	1,539
50% Exceedance	1,048	1,412	2,910	3,546	4,572	5,244	4,391	2,823	1,814	1,196	1,153	1,408
60% Exceedance	905	1,202	2,337	2,578	3,547	4,385	3,140	2,135	1,540	1,043	1,081	1,268
70% Exceedance	661	1,110	1,864	1,931	2,681	3,108	2,579	1,686	1,395	945	995	1,160
80% Exceedance	527	1,007	1,627	1,326	2,090	2,387	1,969	953	1,180	864	907	1,046
90% Exceedance	398	821	1,401	885	1,576	1,772	1,212	610	962	742	711	847
Full Simulation Period Average ^a	1,185	2,071	4,684	5,779	6,710	6,322	5,382	4,119	2,226	1,209	1,257	1,447
Wet Water Years (28%)	1,470	2,689	4,881	11,848	12,341	10,647	9,223	7,377	3,495	1,421	1,517	1,993
Above Normal Water Years (14%)	1,331	1,906	4,284	7,529	7,650	7,924	5,628	4,305	2,241	1,146	1,348	1,529
Below Normal Water Years (18%)	1,304	1,740	4,999	3,712	4,770	5,274	5,005	3,216	2,040	1,272	1,350	1,424
Dry Water Years (24%)	1,136	2,394	5,714	2,211	4,059	4,004	3,646	2,748	1,579	1,142	1,078	1,228
Critical Water Years (16%)	442	965	2,692	1,305	2,191	2,004	1,472	1,329	1,169	926	886	773

Table F.2.2-12-6b. American River below Nimbus Dam Flow, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,238	4,905	10,936	12,938	13,809	9,782	7,836	8,391	5,105	4,851	3,280	2,872
20% Exceedance	1,802	3,846	5,126	8,479	10,570	6,051	5,981	5,859	4,087	4,515	2,861	2,490
30% Exceedance	1,589	2,994	3,251	6,266	7,718	4,757	4,198	4,348	3,501	4,084	2,662	2,036
40% Exceedance	1,524	2,402	2,193	4,175	5,782	3,232	3,305	3,262	3,002	3,781	2,391	1,750
50% Exceedance	1,500	2,000	2,000	2,575	4,242	2,717	2,615	2,809	2,799	3,410	2,134	1,750
60% Exceedance	1,469	1,862	2,000	1,469	3,027	1,750	1,871	2,041	2,405	3,156	1,885	1,686
70% Exceedance	991	1,175	1,569	1,400	2,003	1,602	1,500	1,504	2,058	2,631	1,750	1,608
80% Exceedance	703	760	955	1,302	1,400	981	1,132	1,275	1,535	2,276	1,566	1,390
90% Exceedance	561	628	634	528	1,305	953	953	1,006	1,070	1,668	1,273	730
Full Simulation Period Average ^a	1,453	2,585	3,929	5,278	6,346	4,032	3,713	3,633	2,905	3,354	2,233	1,850
Wet Water Years (28%)	1,896	4,111	4,855	11,650	12,283	7,659	6,803	6,359	3,695	3,542	2,770	2,537
Above Normal Water Years (14%)	1,974	2,405	3,317	6,765	7,489	4,981	3,293	3,393	3,442	4,315	2,309	2,345
Below Normal Water Years (18%)	1,415	2,023	4,201	2,788	4,574	2,731	2,769	3,100	2,794	4,258	2,545	1,724
Dry Water Years (24%)	1,150	2,265	4,987	1,568	3,265	1,980	2,254	2,785	2,527	3,078	1,924	1,469
Critical Water Years (16%)	638	1,099	795	1,192	1,571	1,394	1,923	945	1,748	1,579	1,338	930

Table F.2.2-12-6c. American River below Nimbus Dam Flow, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	397	902	-482	460	-35	-3,104	-2,500	-1,215	865	3,186	1,419	761
20% Exceedance	316	1,405	-1,168	-1,314	-478	-3,128	-2,578	-1,410	1,200	2,986	1,111	669
30% Exceedance	288	1,181	-968	-363	-114	-2,996	-2,895	-1,308	1,144	2,671	1,162	426
40% Exceedance	357	873	-1,537	-139	-478	-2,943	-2,128	-812	1,033	2,493	1,045	211
50% Exceedance	452	588	-910	-970	-330	-2,527	-1,776	-13	985	2,214	981	342
60% Exceedance	564	660	-337	-1,109	-520	-2,635	-1,269	-94	865	2,113	803	418
70% Exceedance	330	66	-295	-531	-678	-1,506	-1,079	-182	663	1,686	755	447
80% Exceedance	176	-246	-672	-24	-690	-1,406	-837	322	355	1,412	659	344
90% Exceedance	163	-193	-767	-357	-272	-819	-260	395	109	926	563	-117
Full Simulation Period Average ^a	268	513	-755	-501	-364	-2,290	-1,669	-486	680	2,144	976	404
Wet Water Years (28%)	426	1,423	-26	-198	-58	-2,988	-2,420	-1,018	199	2,121	1,253	544
Above Normal Water Years (14%)	643	498	-967	-765	-161	-2,943	-2,336	-912	1,201	3,169	962	816
Below Normal Water Years (18%)	112	283	-797	-924	-196	-2,543	-2,236	-116	754	2,986	1,196	300
Dry Water Years (24%)	14	-128	-727	-643	-793	-2,024	-1,392	37	948	1,936	845	241
Critical Water Years (16%)	195	134	-1,897	-113	-620	-611	451	-385	579	653	452	157

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-7a. American River below Nimbus Dam Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,841	4,003	11,418	12,478	13,844	12,885	10,336	9,606	4,240	1,665	1,861	2,111
20% Exceedance	1,486	2,442	6,294	9,792	11,048	9,178	8,559	7,269	2,887	1,528	1,750	1,821
30% Exceedance	1,301	1,813	4,219	6,629	7,832	7,753	7,093	5,656	2,357	1,413	1,500	1,610
40% Exceedance	1,167	1,529	3,730	4,314	6,260	6,176	5,433	4,074	1,969	1,289	1,346	1,539
50% Exceedance	1,048	1,412	2,910	3,546	4,572	5,244	4,391	2,823	1,814	1,196	1,153	1,408
60% Exceedance	905	1,202	2,337	2,578	3,547	4,385	3,140	2,135	1,540	1,043	1,081	1,268
70% Exceedance	661	1,110	1,864	1,931	2,681	3,108	2,579	1,686	1,395	945	995	1,160
80% Exceedance	527	1,007	1,627	1,326	2,090	2,387	1,969	953	1,180	864	907	1,046
90% Exceedance	398	821	1,401	885	1,576	1,772	1,212	610	962	742	711	847
Full Simulation Period Average ^a	1,185	2,071	4,684	5,779	6,710	6,322	5,382	4,119	2,226	1,209	1,257	1,447
Wet Water Years (28%)	1,470	2,689	4,881	11,848	12,341	10,647	9,223	7,377	3,495	1,421	1,517	1,993
Above Normal Water Years (14%)	1,331	1,906	4,284	7,529	7,650	7,924	5,628	4,305	2,241	1,146	1,348	1,529
Below Normal Water Years (18%)	1,304	1,740	4,999	3,712	4,770	5,274	5,005	3,216	2,040	1,272	1,350	1,424
Dry Water Years (24%)	1,136	2,394	5,714	2,211	4,059	4,004	3,646	2,748	1,579	1,142	1,078	1,228
Critical Water Years (16%)	442	965	2,692	1,305	2,191	2,004	1,472	1,329	1,169	926	886	773

Table F.2.2-12-7b. American River below Nimbus Dam Flow, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,298	4,857	10,939	12,928	13,808	9,775	7,815	8,371	4,976	5,002	3,280	2,845
20% Exceedance	1,723	3,750	5,120	8,677	10,594	6,092	6,001	5,886	3,969	4,486	2,814	2,518
30% Exceedance	1,578	3,299	3,177	6,211	7,443	4,750	4,140	4,150	3,373	4,075	2,563	2,076
40% Exceedance	1,500	2,323	2,181	4,245	5,761	3,226	3,293	3,190	3,030	3,720	2,401	1,750
50% Exceedance	1,500	2,000	2,000	2,722	4,171	2,766	2,395	2,578	2,794	3,415	2,138	1,750
60% Exceedance	1,469	1,804	2,000	1,451	3,190	1,750	1,634	1,867	2,454	3,071	1,830	1,708
70% Exceedance	942	1,175	1,568	1,400	1,909	1,602	1,500	1,500	2,006	2,525	1,750	1,621
80% Exceedance	656	746	907	1,302	1,400	981	1,078	1,250	1,531	2,211	1,571	1,499
90% Exceedance	561	628	634	531	1,305	953	953	1,006	1,143	1,689	1,250	734
Full Simulation Period Average ^a	1,438	2,560	3,912	5,305	6,343	4,035	3,658	3,567	2,884	3,352	2,228	1,865
Wet Water Years (28%)	1,889	4,132	4,842	11,642	12,292	7,657	6,804	6,314	3,660	3,525	2,727	2,535
Above Normal Water Years (14%)	1,908	2,425	3,308	6,827	7,530	4,978	3,274	3,301	3,356	4,393	2,169	2,373
Below Normal Water Years (18%)	1,445	2,056	4,161	2,729	4,429	2,758	2,739	2,983	2,767	4,204	2,566	1,731
Dry Water Years (24%)	1,132	2,149	4,984	1,558	3,329	2,003	2,165	2,705	2,565	3,064	1,959	1,484
Critical Water Years (16%)	610	1,026	763	1,401	1,567	1,358	1,762	944	1,725	1,611	1,428	968

Table F.2.2-12-7c. American River below Nimbus Dam Flow, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	457	854	-479	450	-36	-3,110	-2,521	-1,235	736	3,337	1,419	734
20% Exceedance	237	1,309	-1,174	-1,115	-455	-3,087	-2,558	-1,383	1,082	2,958	1,065	698
30% Exceedance	277	1,486	-1,043	-418	-389	-3,003	-2,953	-1,506	1,016	2,662	1,063	466
40% Exceedance	333	794	-1,549	-68	-500	-2,950	-2,141	-884	1,062	2,431	1,055	211
50% Exceedance	452	588	-910	-824	-400	-2,478	-1,996	-245	980	2,219	985	342
60% Exceedance	564	602	-337	-1,127	-357	-2,635	-1,507	-268	914	2,028	749	440
70% Exceedance	281	66	-296	-531	-772	-1,505	-1,079	-186	610	1,580	755	461
80% Exceedance	129	-260	-719	-24	-690	-1,406	-890	297	352	1,348	664	453
90% Exceedance	163	-193	-767	-355	-272	-819	-260	395	182	947	540	-114
Full Simulation Period Average ^a	253	489	-773	-474	-367	-2,286	-1,724	-552	658	2,143	971	418
Wet Water Years (28%)	419	1,443	-39	-205	-49	-2,990	-2,419	-1,062	164	2,104	1,210	542
Above Normal Water Years (14%)	577	519	-976	-702	-120	-2,946	-2,355	-1,005	1,114	3,247	821	844
Below Normal Water Years (18%)	141	316	-837	-983	-342	-2,516	-2,266	-233	728	2,933	1,216	307
Dry Water Years (24%)	-4	-245	-730	-652	-730	-2,001	-1,480	-43	986	1,922	880	256
Critical Water Years (16%)	168	61	-1,928	96	-624	-646	291	-385	556	685	543	195

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-8a. American River below Nimbus Dam Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,841	4,003	11,418	12,478	13,844	12,885	10,336	9,606	4,240	1,665	1,861	2,111
20% Exceedance	1,486	2,442	6,294	9,792	11,048	9,178	8,559	7,269	2,887	1,528	1,750	1,821
30% Exceedance	1,301	1,813	4,219	6,629	7,832	7,753	7,093	5,656	2,357	1,413	1,500	1,610
40% Exceedance	1,167	1,529	3,730	4,314	6,260	6,176	5,433	4,074	1,969	1,289	1,346	1,539
50% Exceedance	1,048	1,412	2,910	3,546	4,572	5,244	4,391	2,823	1,814	1,196	1,153	1,408
60% Exceedance	905	1,202	2,337	2,578	3,547	4,385	3,140	2,135	1,540	1,043	1,081	1,268
70% Exceedance	661	1,110	1,864	1,931	2,681	3,108	2,579	1,686	1,395	945	995	1,160
80% Exceedance	527	1,007	1,627	1,326	2,090	2,387	1,969	953	1,180	864	907	1,046
90% Exceedance	398	821	1,401	885	1,576	1,772	1,212	610	962	742	711	847
Full Simulation Period Average ^a	1,185	2,071	4,684	5,779	6,710	6,322	5,382	4,119	2,226	1,209	1,257	1,447
Wet Water Years (28%)	1,470	2,689	4,881	11,848	12,341	10,647	9,223	7,377	3,495	1,421	1,517	1,993
Above Normal Water Years (14%)	1,331	1,906	4,284	7,529	7,650	7,924	5,628	4,305	2,241	1,146	1,348	1,529
Below Normal Water Years (18%)	1,304	1,740	4,999	3,712	4,770	5,274	5,005	3,216	2,040	1,272	1,350	1,424
Dry Water Years (24%)	1,136	2,394	5,714	2,211	4,059	4,004	3,646	2,748	1,579	1,142	1,078	1,228
Critical Water Years (16%)	442	965	2,692	1,305	2,191	2,004	1,472	1,329	1,169	926	886	773

Table F.2.2-12-8b. American River below Nimbus Dam Flow, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,366	4,716	11,176	12,904	13,806	9,774	7,839	8,382	4,964	5,263	3,221	2,845
20% Exceedance	1,733	3,884	5,114	8,806	10,909	6,146	6,012	6,009	3,864	4,475	2,816	2,448
30% Exceedance	1,578	3,097	3,231	6,226	7,443	4,782	4,226	4,157	3,362	4,052	2,433	2,076
40% Exceedance	1,500	2,631	2,224	4,169	5,754	3,265	3,396	3,235	3,042	3,664	2,262	1,750
50% Exceedance	1,500	2,000	2,000	2,722	4,149	2,809	2,611	2,652	2,843	3,300	1,966	1,733
60% Exceedance	1,463	1,859	2,000	1,521	3,074	1,800	1,660	1,887	2,432	2,935	1,777	1,694
70% Exceedance	991	1,175	1,682	1,400	2,061	1,677	1,498	1,550	2,089	2,485	1,734	1,621
80% Exceedance	691	760	907	1,380	1,400	1,082	1,147	1,385	1,534	2,210	1,578	1,503
90% Exceedance	561	628	634	531	1,270	1,010	1,056	1,121	1,208	1,721	1,233	727
Full Simulation Period Average ^a	1,453	2,616	3,944	5,310	6,343	4,097	3,722	3,621	2,887	3,310	2,159	1,852
Wet Water Years (28%)	1,879	4,121	4,841	11,607	12,293	7,675	6,809	6,334	3,659	3,540	2,721	2,522
Above Normal Water Years (14%)	1,950	2,415	3,331	6,908	7,525	5,029	3,325	3,366	3,396	4,297	2,103	2,259
Below Normal Water Years (18%)	1,465	2,065	4,196	2,740	4,401	2,826	2,827	2,972	2,789	4,181	2,408	1,797
Dry Water Years (24%)	1,140	2,379	5,076	1,582	3,389	2,116	2,274	2,775	2,534	2,934	1,863	1,464
Critical Water Years (16%)	646	1,048	772	1,374	1,512	1,419	1,844	1,098	1,730	1,625	1,389	966

Table F.2.2-12-8c. American River below Nimbus Dam Flow, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	525	712	-242	426	-38	-3,111	-2,497	-1,223	724	3,598	1,360	734
20% Exceedance	247	1,442	-1,181	-986	-139	-3,032	-2,547	-1,260	976	2,947	1,066	627
30% Exceedance	277	1,284	-989	-403	-389	-2,971	-2,867	-1,500	1,005	2,640	933	466
40% Exceedance	333	1,102	-1,506	-144	-507	-2,910	-2,037	-839	1,074	2,376	916	211
50% Exceedance	452	588	-910	-824	-423	-2,435	-1,780	-171	1,028	2,104	813	325
60% Exceedance	558	657	-337	-1,057	-473	-2,586	-1,480	-248	893	1,892	696	425
70% Exceedance	330	66	-181	-531	-620	-1,431	-1,081	-137	694	1,540	738	461
80% Exceedance	165	-246	-719	54	-690	-1,305	-822	432	354	1,346	671	457
90% Exceedance	163	-193	-767	-355	-306	-761	-156	511	246	979	522	-120
Full Simulation Period Average ^a	268	545	-740	-469	-367	-2,225	-1,660	-498	662	2,100	902	405
Wet Water Years (28%)	409	1,432	-40	-240	-48	-2,972	-2,414	-1,043	164	2,119	1,204	529
Above Normal Water Years (14%)	619	509	-953	-622	-125	-2,895	-2,303	-939	1,154	3,151	755	730
Below Normal Water Years (18%)	162	324	-803	-972	-369	-2,448	-2,178	-245	750	2,909	1,058	373
Dry Water Years (24%)	4	-14	-638	-629	-670	-1,888	-1,371	27	955	1,792	785	236
Critical Water Years (16%)	204	83	-1,920	69	-680	-585	372	-231	561	699	503	192

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-9a. American River below Nimbus Dam Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,841	4,003	11,418	12,478	13,844	12,885	10,336	9,606	4,240	1,665	1,861	2,111
20% Exceedance	1,486	2,442	6,294	9,792	11,048	9,178	8,559	7,269	2,887	1,528	1,750	1,821
30% Exceedance	1,301	1,813	4,219	6,629	7,832	7,753	7,093	5,656	2,357	1,413	1,500	1,610
40% Exceedance	1,167	1,529	3,730	4,314	6,260	6,176	5,433	4,074	1,969	1,289	1,346	1,539
50% Exceedance	1,048	1,412	2,910	3,546	4,572	5,244	4,391	2,823	1,814	1,196	1,153	1,408
60% Exceedance	905	1,202	2,337	2,578	3,547	4,385	3,140	2,135	1,540	1,043	1,081	1,268
70% Exceedance	661	1,110	1,864	1,931	2,681	3,108	2,579	1,686	1,395	945	995	1,160
80% Exceedance	527	1,007	1,627	1,326	2,090	2,387	1,969	953	1,180	864	907	1,046
90% Exceedance	398	821	1,401	885	1,576	1,772	1,212	610	962	742	711	847
Full Simulation Period Average ^a	1,185	2,071	4,684	5,779	6,710	6,322	5,382	4,119	2,226	1,209	1,257	1,447
Wet Water Years (28%)	1,470	2,689	4,881	11,848	12,341	10,647	9,223	7,377	3,495	1,421	1,517	1,993
Above Normal Water Years (14%)	1,331	1,906	4,284	7,529	7,650	7,924	5,628	4,305	2,241	1,146	1,348	1,529
Below Normal Water Years (18%)	1,304	1,740	4,999	3,712	4,770	5,274	5,005	3,216	2,040	1,272	1,350	1,424
Dry Water Years (24%)	1,136	2,394	5,714	2,211	4,059	4,004	3,646	2,748	1,579	1,142	1,078	1,228
Critical Water Years (16%)	442	965	2,692	1,305	2,191	2,004	1,472	1,329	1,169	926	886	773

Table F.2.2-12-9b. American River below Nimbus Dam Flow, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,384	4,905	10,936	12,938	13,809	9,782	7,836	8,391	5,108	4,860	3,264	2,869
20% Exceedance	1,841	3,833	5,126	8,627	10,570	6,051	5,981	6,014	4,014	4,651	2,850	2,494
30% Exceedance	1,630	2,995	3,253	6,266	7,330	4,639	4,015	4,411	3,301	4,096	2,707	1,961
40% Exceedance	1,524	2,287	2,228	4,175	5,784	3,125	3,254	3,298	2,970	3,781	2,441	1,750
50% Exceedance	1,500	2,000	2,000	2,731	4,245	2,393	2,186	2,849	2,742	3,424	2,170	1,750
60% Exceedance	1,469	1,890	2,000	1,536	3,067	1,750	1,500	2,075	2,321	3,175	1,920	1,686
70% Exceedance	942	1,175	1,784	1,400	2,109	1,602	1,151	1,542	2,013	2,603	1,775	1,608
80% Exceedance	698	823	1,113	1,396	1,400	953	953	1,426	1,546	2,319	1,677	1,416
90% Exceedance	581	646	636	691	1,305	953	921	1,006	1,027	1,728	1,375	730
Full Simulation Period Average ^a	1,471	2,592	3,977	5,343	6,349	3,976	3,541	3,685	2,859	3,391	2,261	1,848
Wet Water Years (28%)	1,895	4,116	4,858	11,650	12,284	7,659	6,803	6,359	3,689	3,541	2,767	2,536
Above Normal Water Years (14%)	1,963	2,406	3,314	6,792	7,491	4,981	3,292	3,393	3,453	4,307	2,330	2,347
Below Normal Water Years (18%)	1,505	2,000	4,182	2,855	4,567	2,731	2,770	3,084	2,795	4,274	2,558	1,724
Dry Water Years (24%)	1,148	2,253	4,987	1,569	3,274	1,979	2,238	2,783	2,524	3,087	1,919	1,469
Critical Water Years (16%)	662	1,189	1,132	1,500	1,581	1,046	870	1,293	1,461	1,787	1,495	918

Table F.2.2-12-9c. American River below Nimbus Dam Flow, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	542	902	-482	460	-35	-3,104	-2,500	-1,215	868	3,195	1,404	758
20% Exceedance	355	1,392	-1,168	-1,166	-478	-3,127	-2,578	-1,255	1,127	3,123	1,100	673
30% Exceedance	330	1,182	-966	-363	-502	-3,114	-3,077	-1,246	944	2,684	1,207	351
40% Exceedance	358	758	-1,502	-138	-477	-3,051	-2,179	-776	1,001	2,492	1,095	211
50% Exceedance	452	588	-910	-814	-327	-2,850	-2,205	26	928	2,228	1,017	342
60% Exceedance	564	688	-337	-1,042	-479	-2,635	-1,640	-60	782	2,132	839	418
70% Exceedance	281	66	-80	-531	-572	-1,506	-1,428	-145	618	1,659	780	447
80% Exceedance	171	-184	-514	69	-690	-1,435	-1,016	473	366	1,455	770	370
90% Exceedance	182	-175	-766	-194	-272	-819	-292	395	66	985	665	-117
Full Simulation Period Average ^a	286	521	-707	-436	-361	-2,346	-1,841	-434	633	2,181	1,004	401
Wet Water Years (28%)	425	1,427	-23	-198	-58	-2,988	-2,420	-1,018	194	2,120	1,250	543
Above Normal Water Years (14%)	632	500	-970	-737	-159	-2,943	-2,336	-912	1,211	3,161	982	818
Below Normal Water Years (18%)	201	260	-816	-857	-203	-2,543	-2,235	-132	755	3,002	1,208	300
Dry Water Years (24%)	12	-141	-727	-642	-785	-2,025	-1,408	36	945	1,945	841	241
Critical Water Years (16%)	220	224	-1,559	196	-611	-959	-601	-36	292	861	609	144

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-12-10a. American River below Nimbus Dam Flow, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,841	4,003	11,418	12,478	13,844	12,885	10,336	9,606	4,240	1,665	1,861	2,111
20% Exceedance	1,486	2,442	6,294	9,792	11,048	9,178	8,559	7,269	2,887	1,528	1,750	1,821
30% Exceedance	1,301	1,813	4,219	6,629	7,832	7,753	7,093	5,656	2,357	1,413	1,500	1,610
40% Exceedance	1,167	1,529	3,730	4,314	6,260	6,176	5,433	4,074	1,969	1,289	1,346	1,539
50% Exceedance	1,048	1,412	2,910	3,546	4,572	5,244	4,391	2,823	1,814	1,196	1,153	1,408
60% Exceedance	905	1,202	2,337	2,578	3,547	4,385	3,140	2,135	1,540	1,043	1,081	1,268
70% Exceedance	661	1,110	1,864	1,931	2,681	3,108	2,579	1,686	1,395	945	995	1,160
80% Exceedance	527	1,007	1,627	1,326	2,090	2,387	1,969	953	1,180	864	907	1,046
90% Exceedance	398	821	1,401	885	1,576	1,772	1,212	610	962	742	711	847
Full Simulation Period Average ^a	1,185	2,071	4,684	5,779	6,710	6,322	5,382	4,119	2,226	1,209	1,257	1,447
Wet Water Years (28%)	1,470	2,689	4,881	11,848	12,341	10,647	9,223	7,377	3,495	1,421	1,517	1,993
Above Normal Water Years (14%)	1,331	1,906	4,284	7,529	7,650	7,924	5,628	4,305	2,241	1,146	1,348	1,529
Below Normal Water Years (18%)	1,304	1,740	4,999	3,712	4,770	5,274	5,005	3,216	2,040	1,272	1,350	1,424
Dry Water Years (24%)	1,136	2,394	5,714	2,211	4,059	4,004	3,646	2,748	1,579	1,142	1,078	1,228
Critical Water Years (16%)	442	965	2,692	1,305	2,191	2,004	1,472	1,329	1,169	926	886	773

Table F.2.2-12-10b. American River below Nimbus Dam Flow, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,394	4,906	10,966	12,938	13,809	9,782	7,836	8,391	5,008	5,444	3,314	2,825
20% Exceedance	1,751	3,760	4,962	8,293	10,568	5,664	5,981	6,007	3,940	4,902	2,826	2,564
30% Exceedance	1,579	2,901	3,245	6,008	7,337	4,639	4,042	4,224	3,273	4,296	2,636	2,018
40% Exceedance	1,500	2,348	2,319	3,972	5,666	3,125	3,072	3,133	2,942	3,843	2,337	1,750
50% Exceedance	1,500	2,000	2,000	2,732	3,969	2,505	2,010	2,418	2,722	3,283	2,158	1,750
60% Exceedance	1,500	1,977	2,000	1,715	3,067	1,750	1,500	1,864	2,329	2,935	1,919	1,728
70% Exceedance	1,142	1,327	1,910	1,406	1,819	1,590	1,270	1,500	1,913	2,532	1,795	1,642
80% Exceedance	762	1,040	1,147	1,400	1,476	1,432	1,169	1,269	1,529	2,206	1,675	1,548
90% Exceedance	617	702	689	745	1,400	953	953	1,056	1,005	1,730	1,545	917
Full Simulation Period Average ^a	1,500	2,612	3,977	5,314	6,317	4,022	3,551	3,583	2,841	3,440	2,285	1,868
Wet Water Years (28%)	1,870	4,067	4,854	11,628	12,283	7,659	6,803	6,359	3,663	3,631	2,804	2,514
Above Normal Water Years (14%)	1,893	2,418	3,339	6,518	7,463	4,965	3,295	3,324	3,311	4,618	2,260	2,283
Below Normal Water Years (18%)	1,578	2,012	4,112	2,926	4,355	2,781	2,822	2,947	2,778	4,557	2,449	1,750
Dry Water Years (24%)	1,227	2,276	5,167	1,667	3,197	2,077	2,172	2,492	2,598	2,910	1,968	1,529
Critical Water Years (16%)	761	1,347	911	1,368	1,759	1,149	970	1,302	1,425	1,613	1,689	1,016

Table F.2.2-12-10c. American River below Nimbus Dam Flow, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	553	902	-452	460	-35	-3,104	-2,500	-1,215	768	3,780	1,454	714
20% Exceedance	265	1,318	-1,332	-1,500	-480	-3,515	-2,578	-1,262	1,053	3,373	1,076	743
30% Exceedance	278	1,088	-974	-621	-495	-3,114	-3,050	-1,433	916	2,883	1,136	408
40% Exceedance	333	819	-1,411	-341	-594	-3,051	-2,362	-941	973	2,554	992	211
50% Exceedance	452	588	-910	-814	-602	-2,738	-2,381	-405	907	2,087	1,005	342
60% Exceedance	595	775	-337	-863	-479	-2,635	-1,640	-271	789	1,893	838	460
70% Exceedance	481	217	47	-526	-862	-1,518	-1,309	-186	518	1,587	799	482
80% Exceedance	235	34	-480	74	-614	-955	-800	316	349	1,342	768	502
90% Exceedance	219	-119	-713	-140	-176	-819	-260	446	44	987	834	70
Full Simulation Period Average ^a	315	541	-707	-465	-393	-2,299	-1,831	-537	615	2,231	1,028	421
Wet Water Years (28%)	401	1,378	-28	-220	-58	-2,988	-2,420	-1,018	168	2,211	1,287	521
Above Normal Water Years (14%)	562	512	-945	-1,011	-187	-2,959	-2,333	-981	1,069	3,473	912	754
Below Normal Water Years (18%)	274	272	-887	-786	-415	-2,494	-2,183	-269	739	3,285	1,099	326
Dry Water Years (24%)	91	-117	-547	-543	-861	-1,928	-1,473	-256	1,018	1,768	890	301
Critical Water Years (16%)	318	383	-1,781	63	-432	-855	-502	-27	256	687	803	242

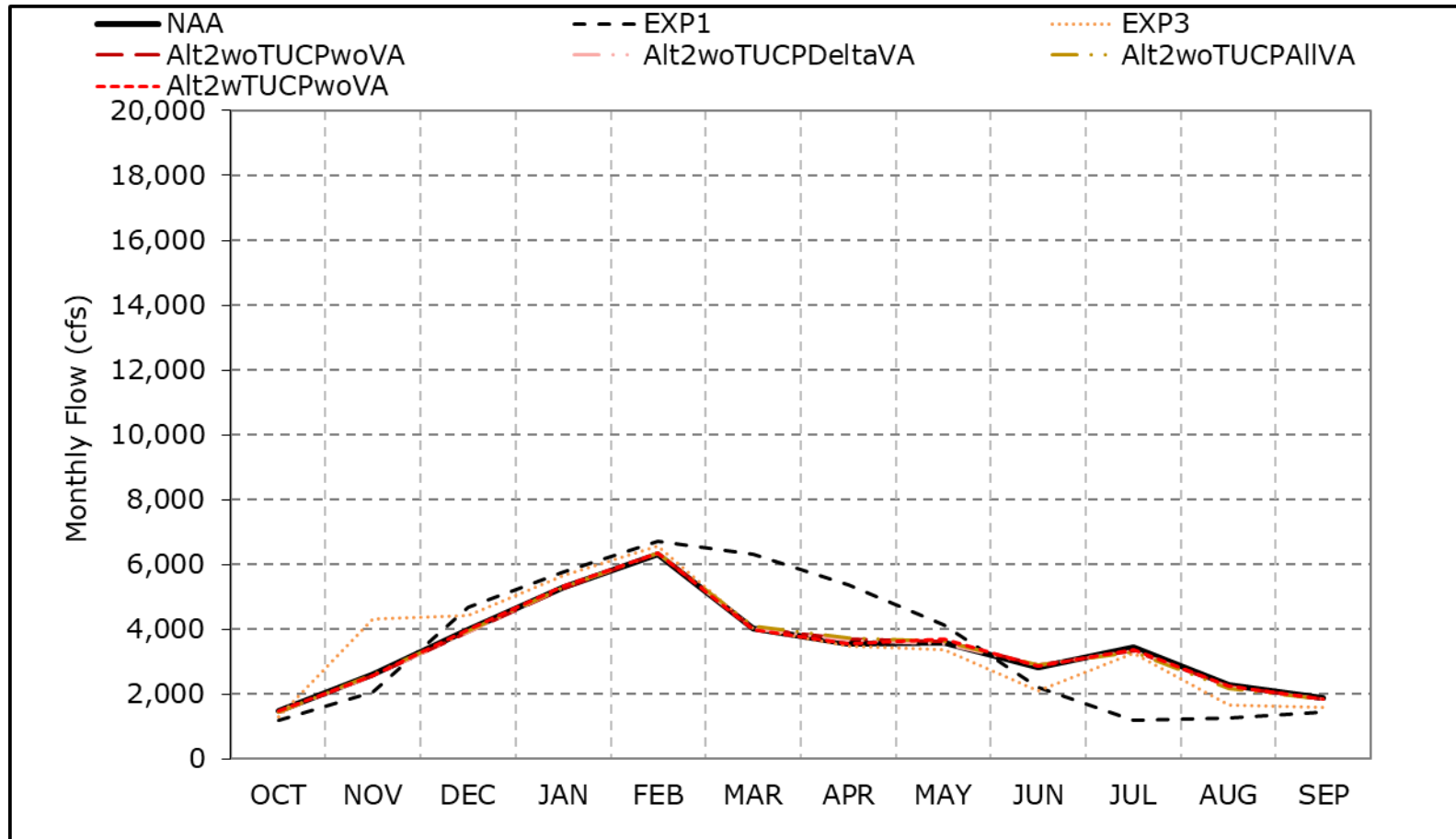
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-12-1. American River below Nimbus Dam Flow, Long-Term Average Flow

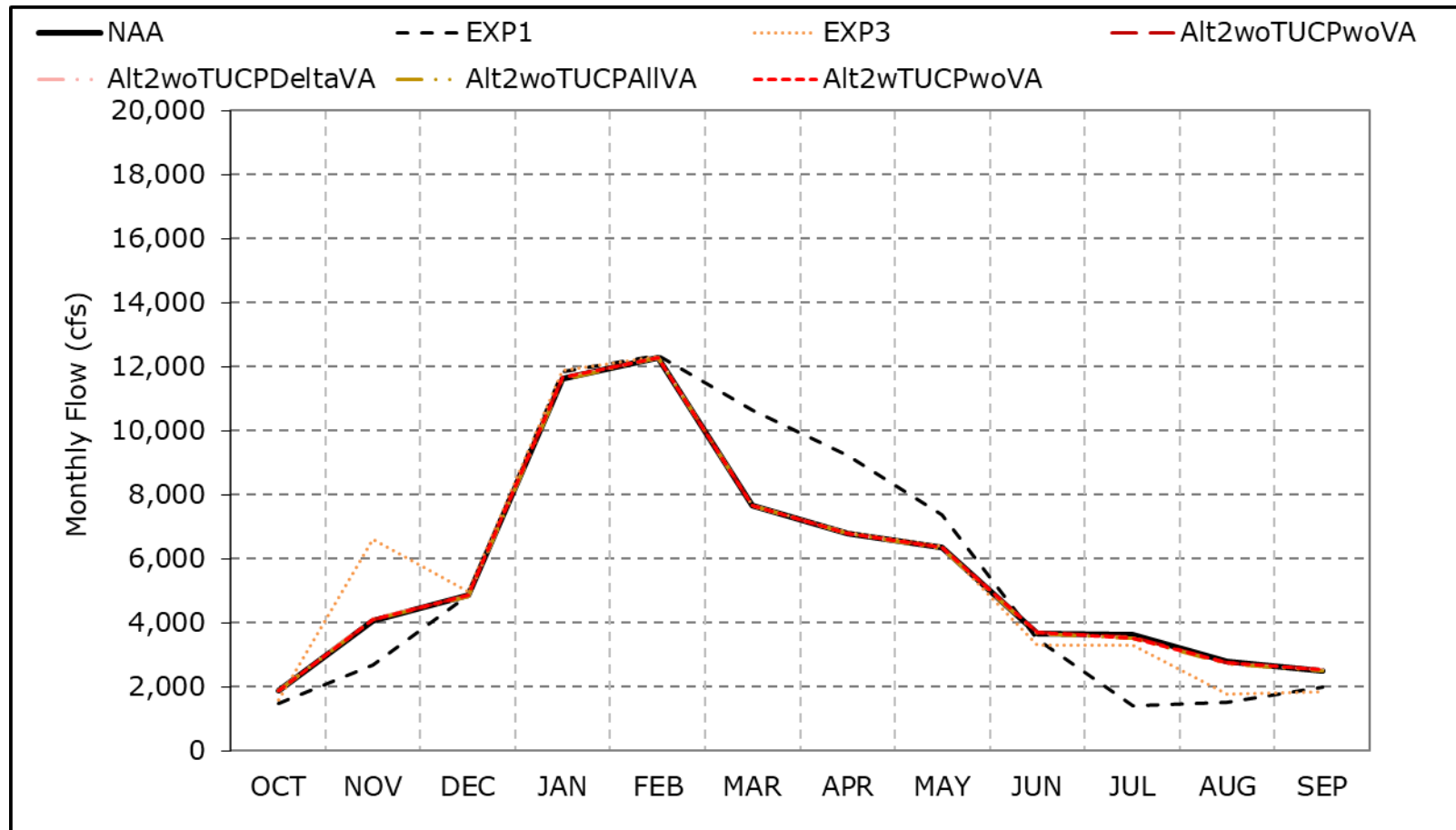


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-2. American River below Nimbus Dam Flow, Wet Year Average Flow

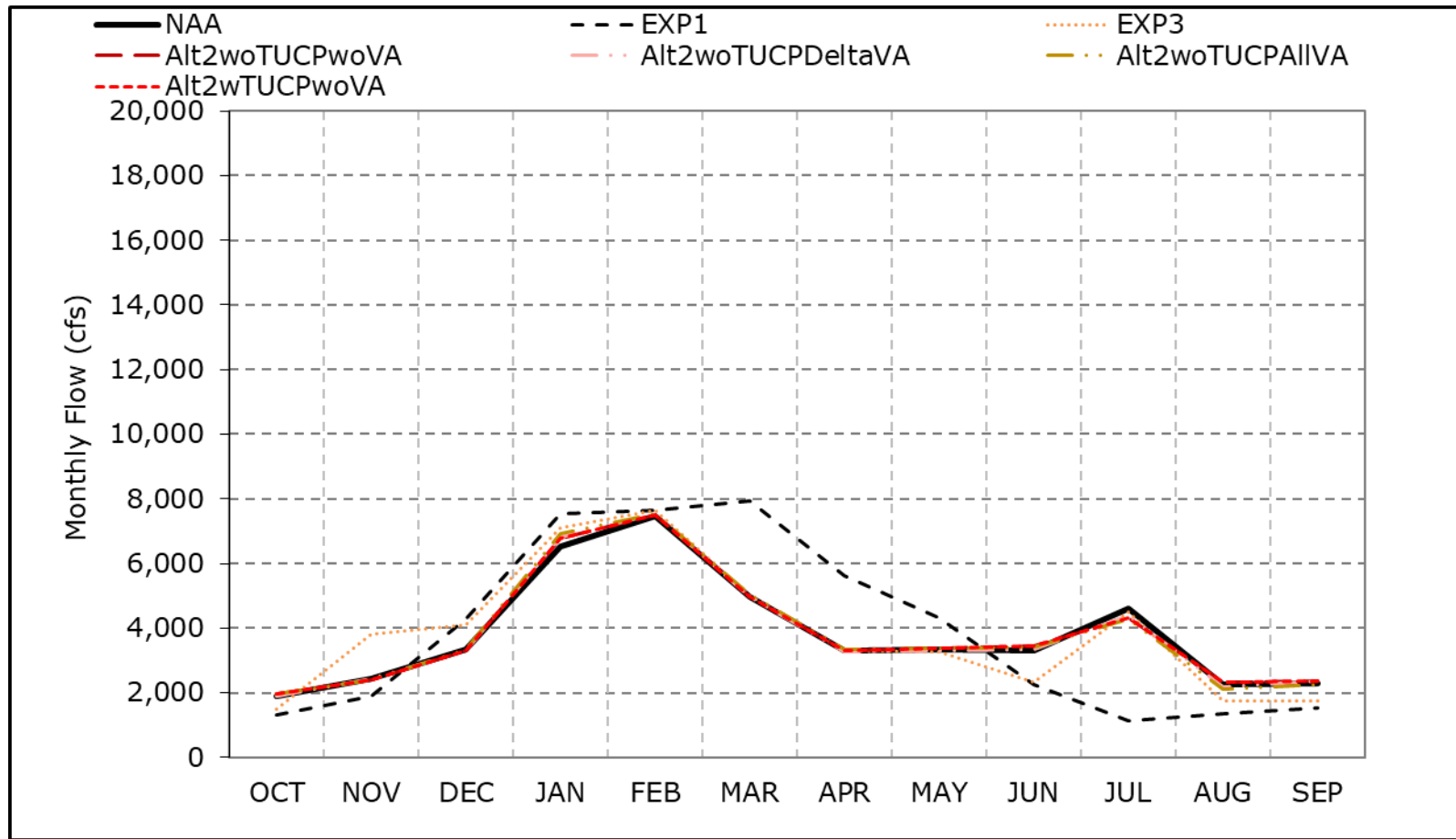


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-3. American River below Nimbus Dam Flow, Above Normal Year Average Flow

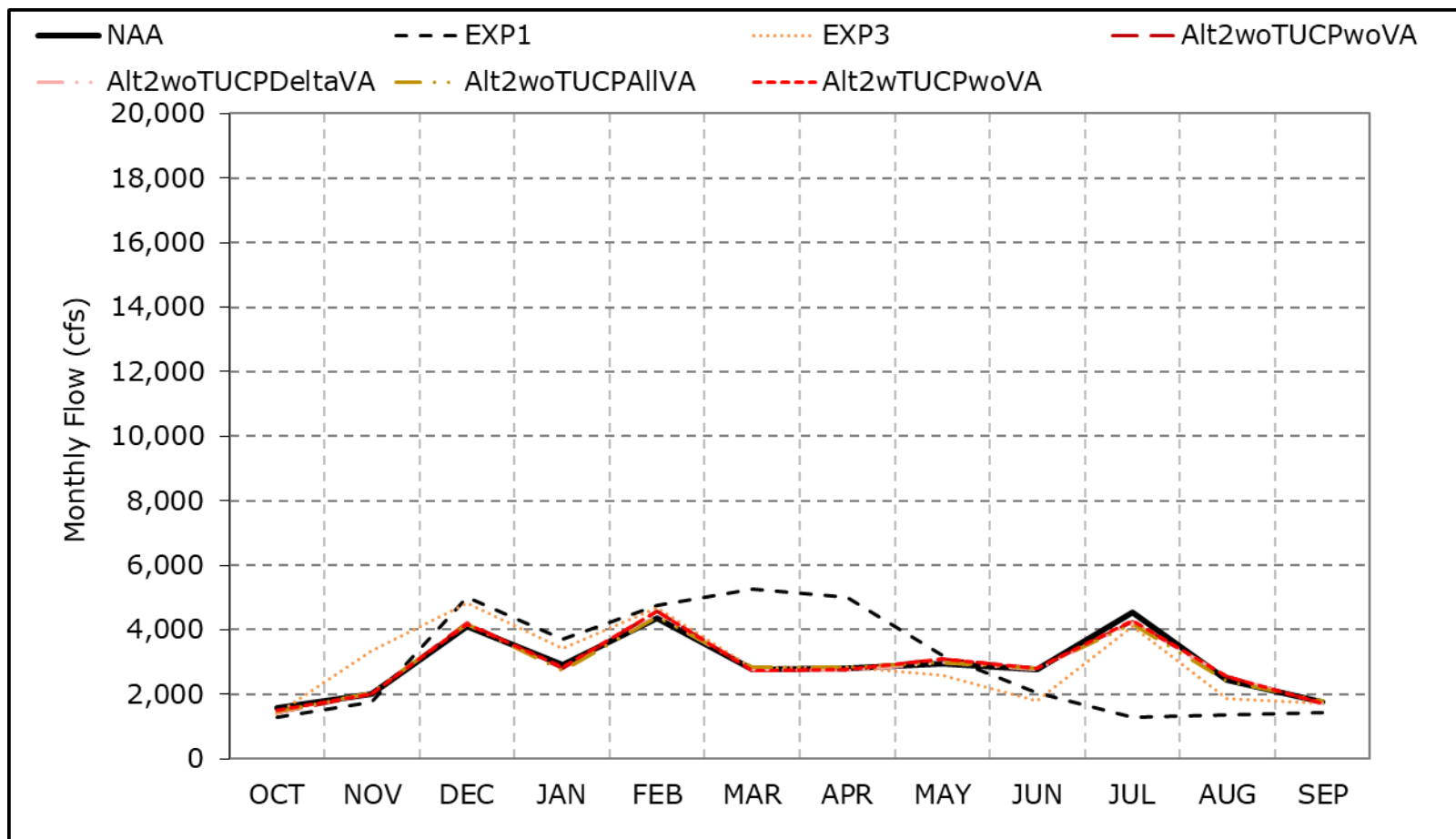


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-4. American River below Nimbus Dam Flow, Below Normal Year Average Flow

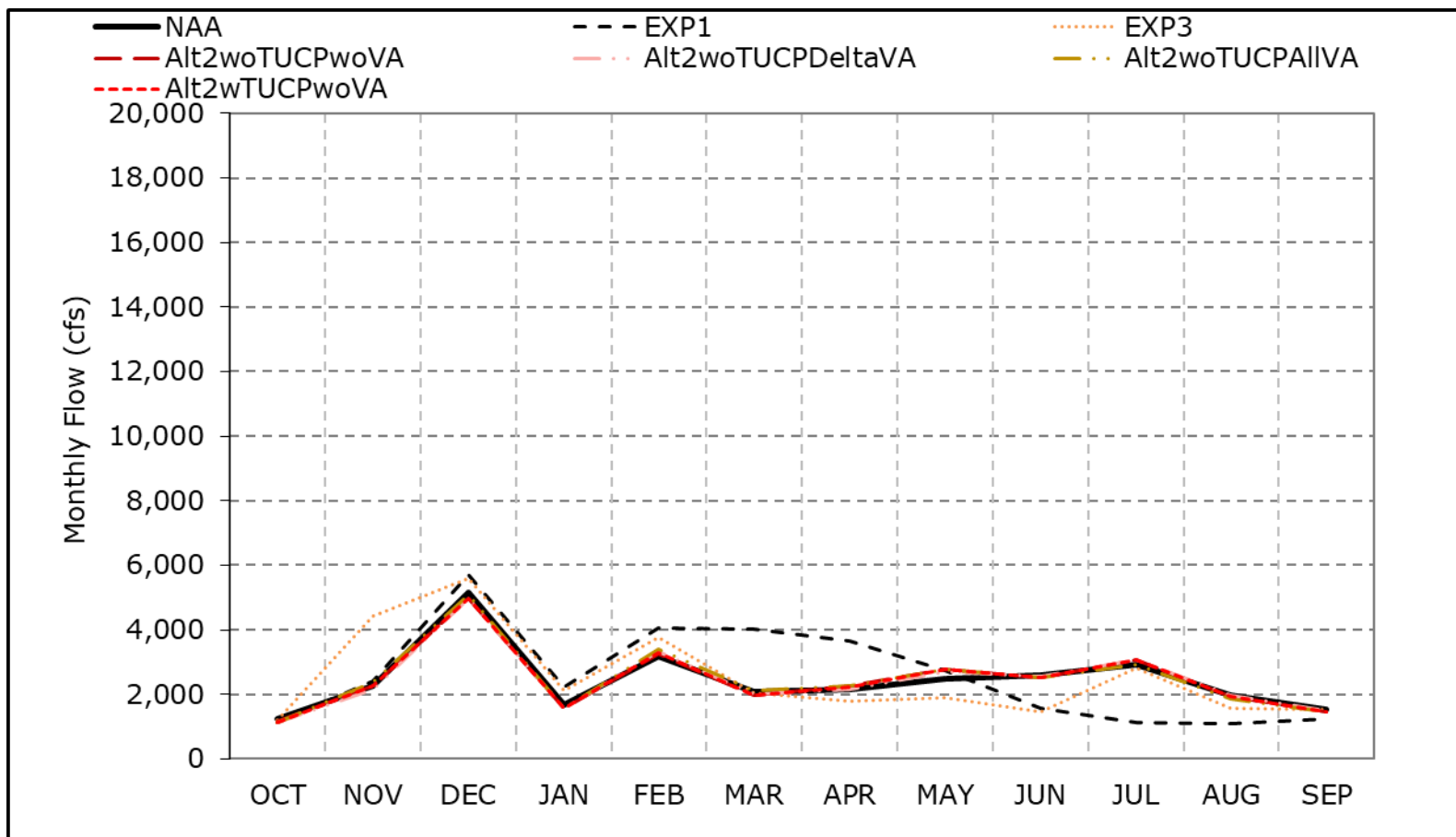


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-5. American River below Nimbus Dam Flow, Dry Year Average Flow

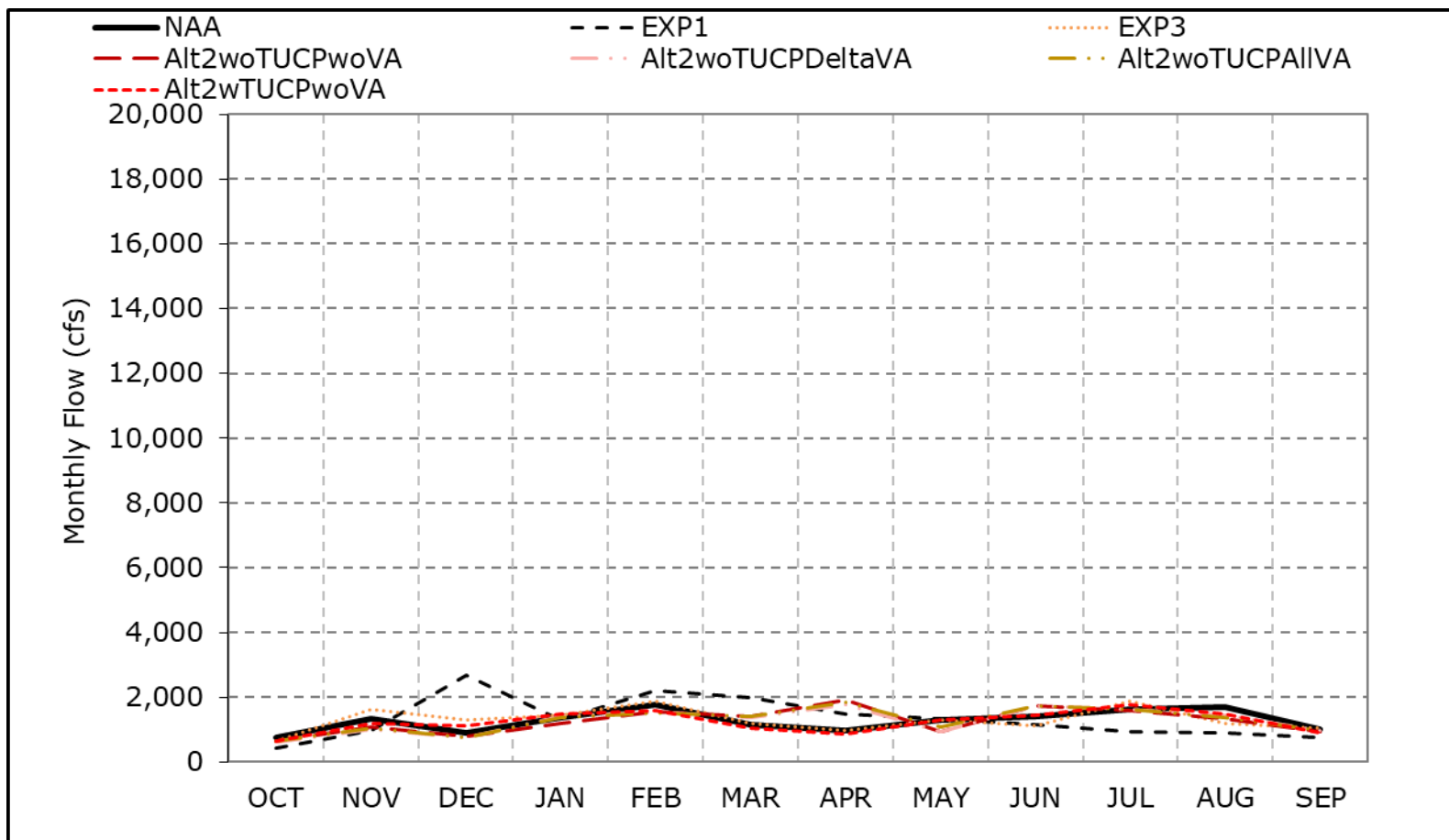


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-6. American River below Nimbus Dam Flow, Critical Year Average Flow

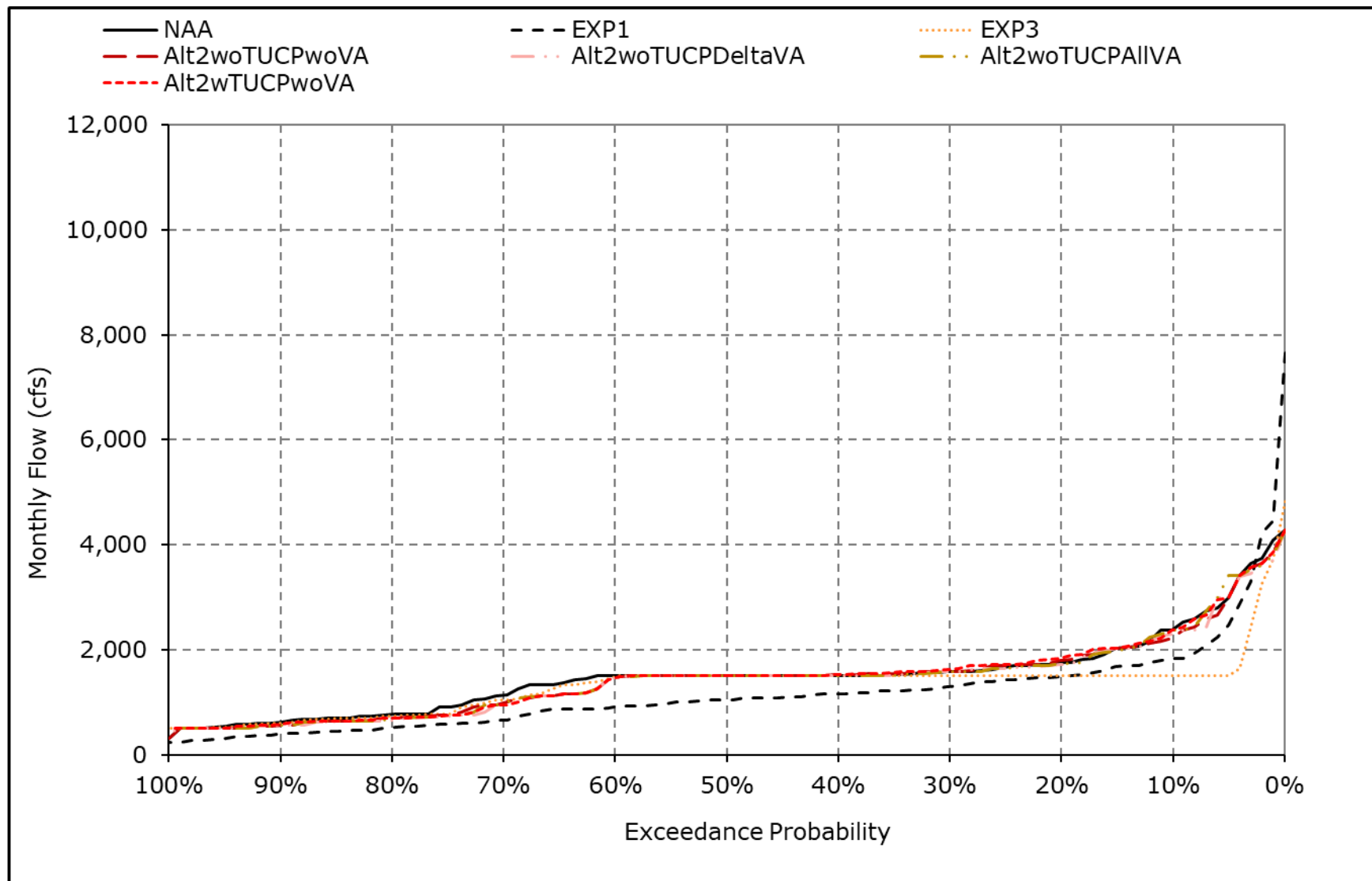


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

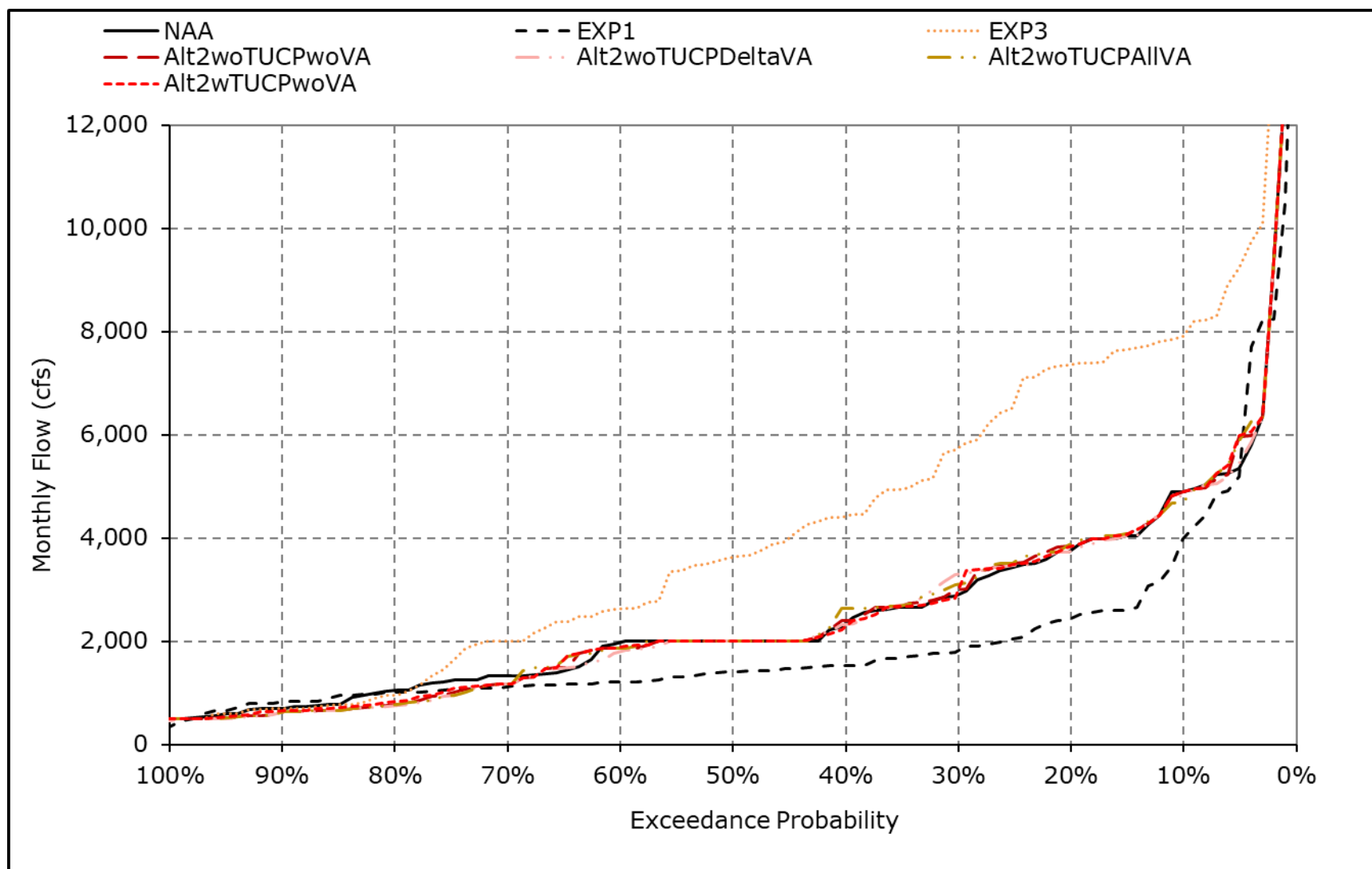
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-7. American River below Nimbus Dam Flow, October



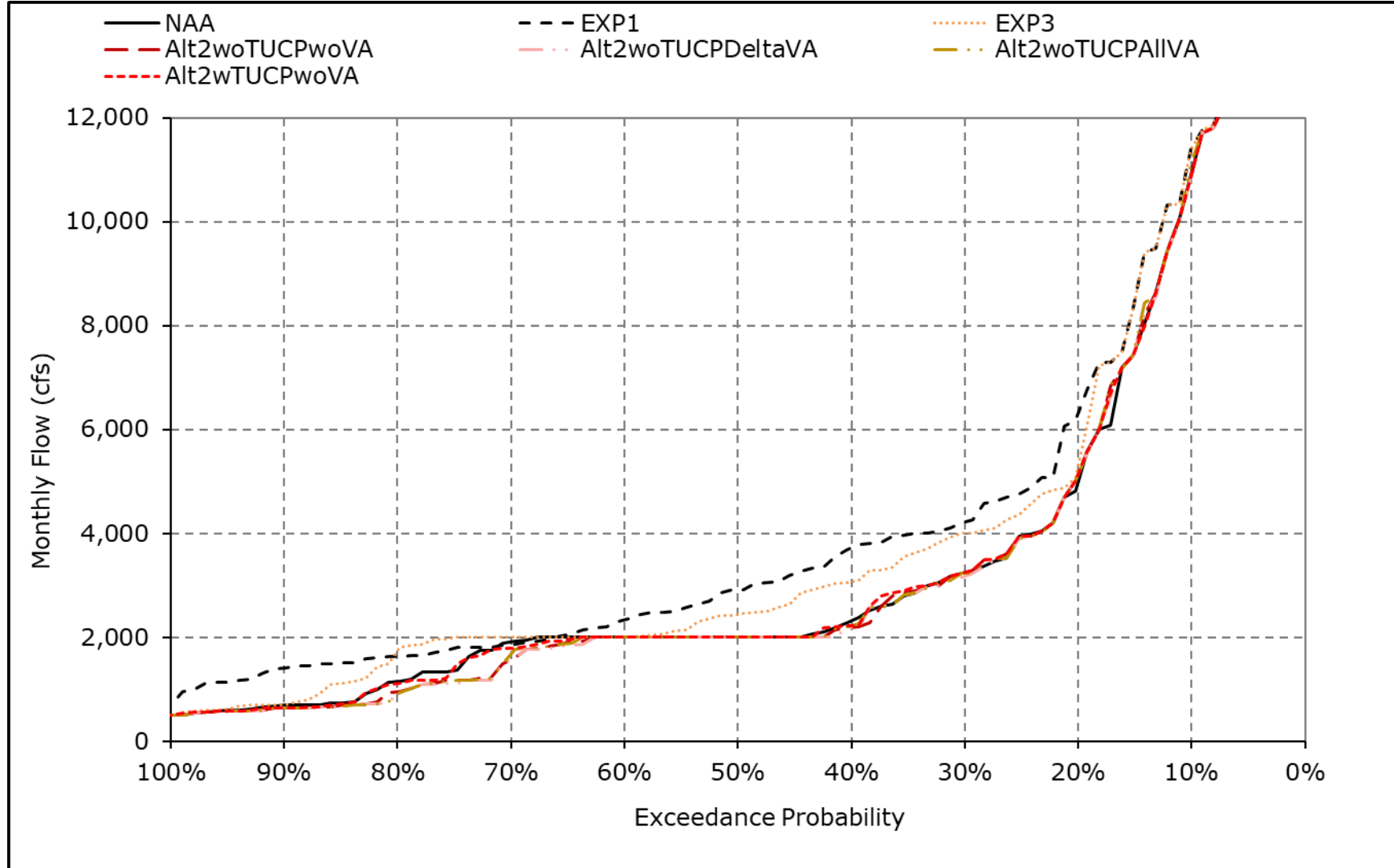
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-8. American River below Nimbus Dam Flow, November



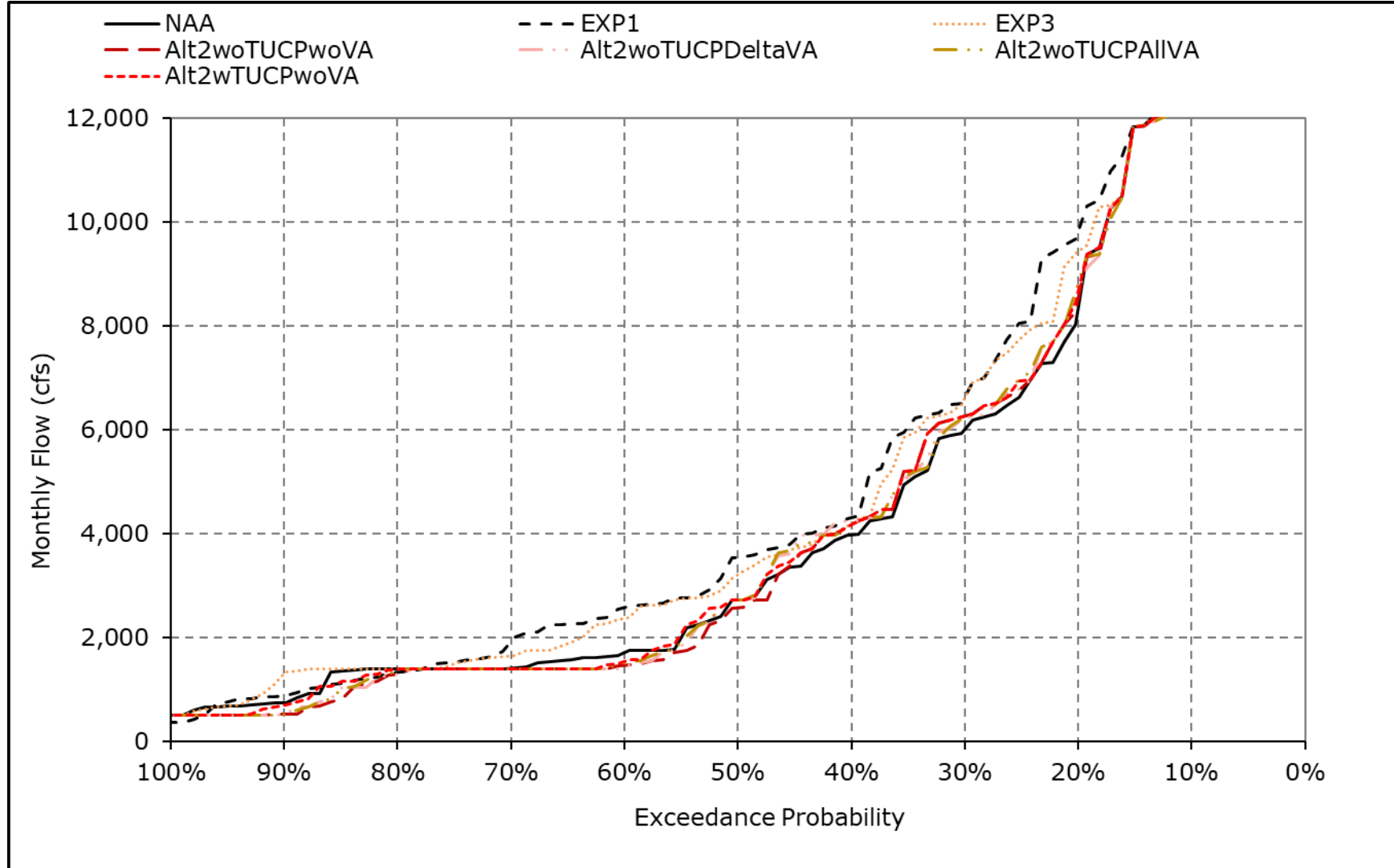
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-9. American River below Nimbus Dam Flow, December



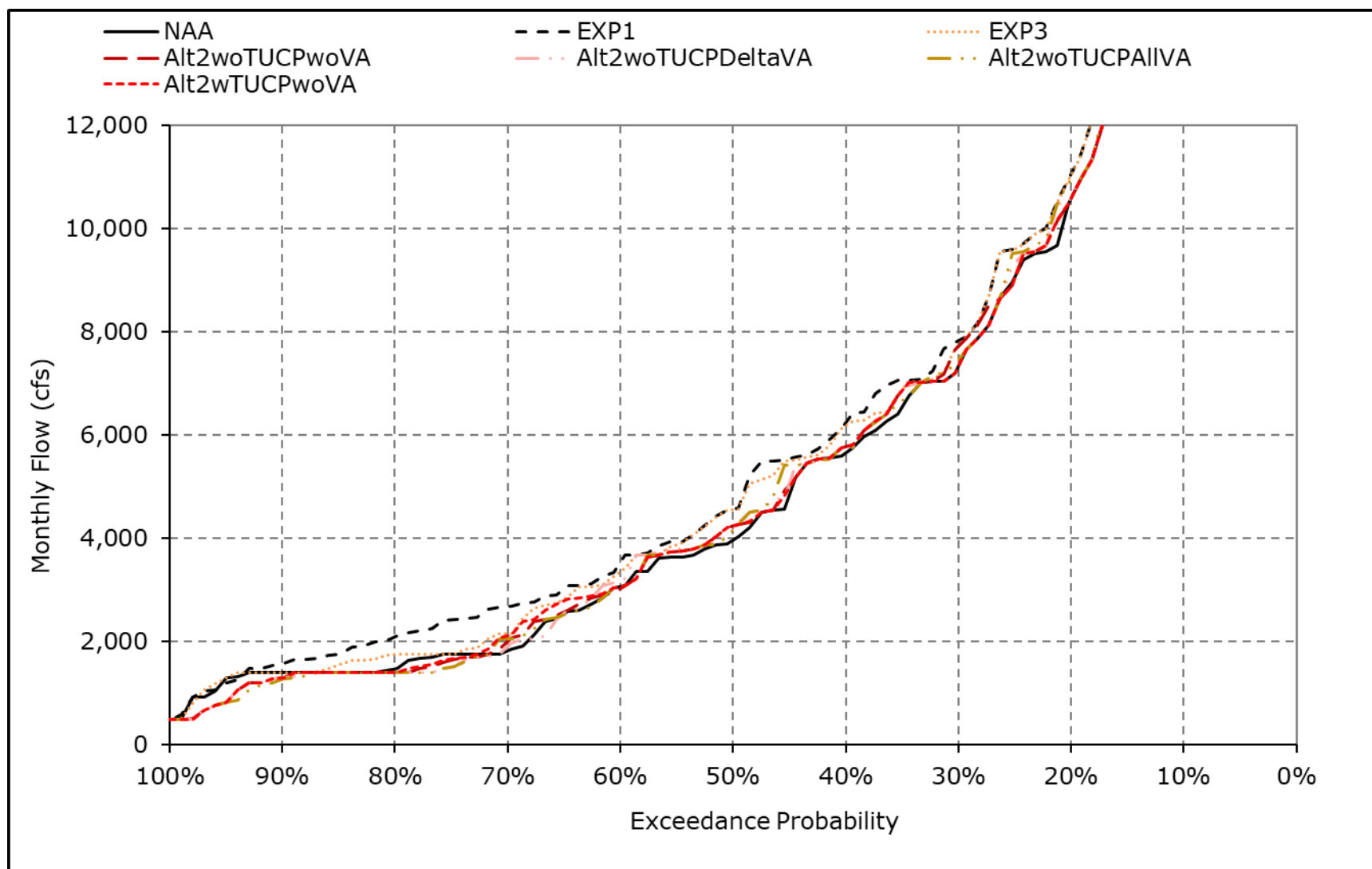
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-10. American River below Nimbus Dam Flow, January



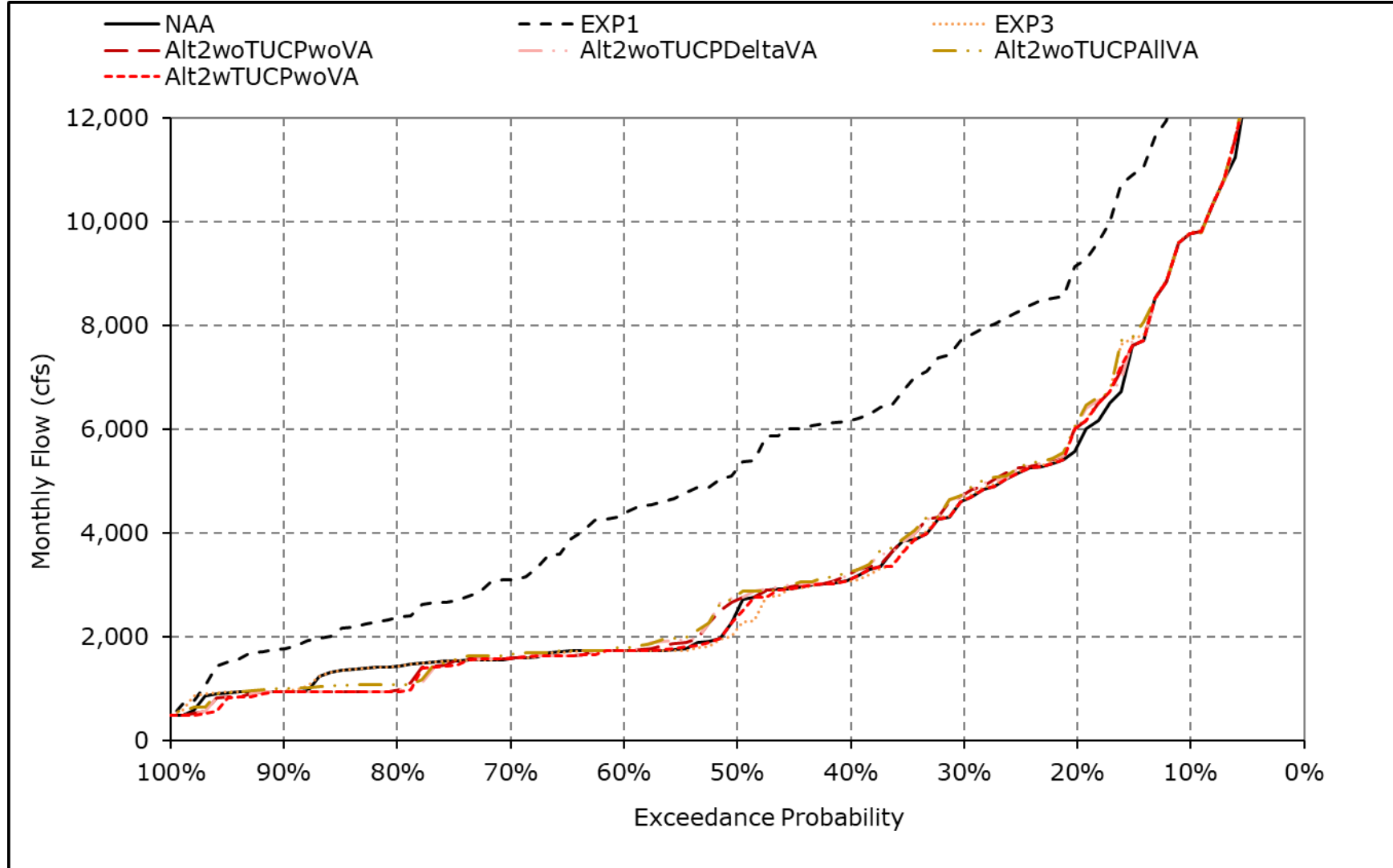
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-11. American River below Nimbus Dam Flow, February



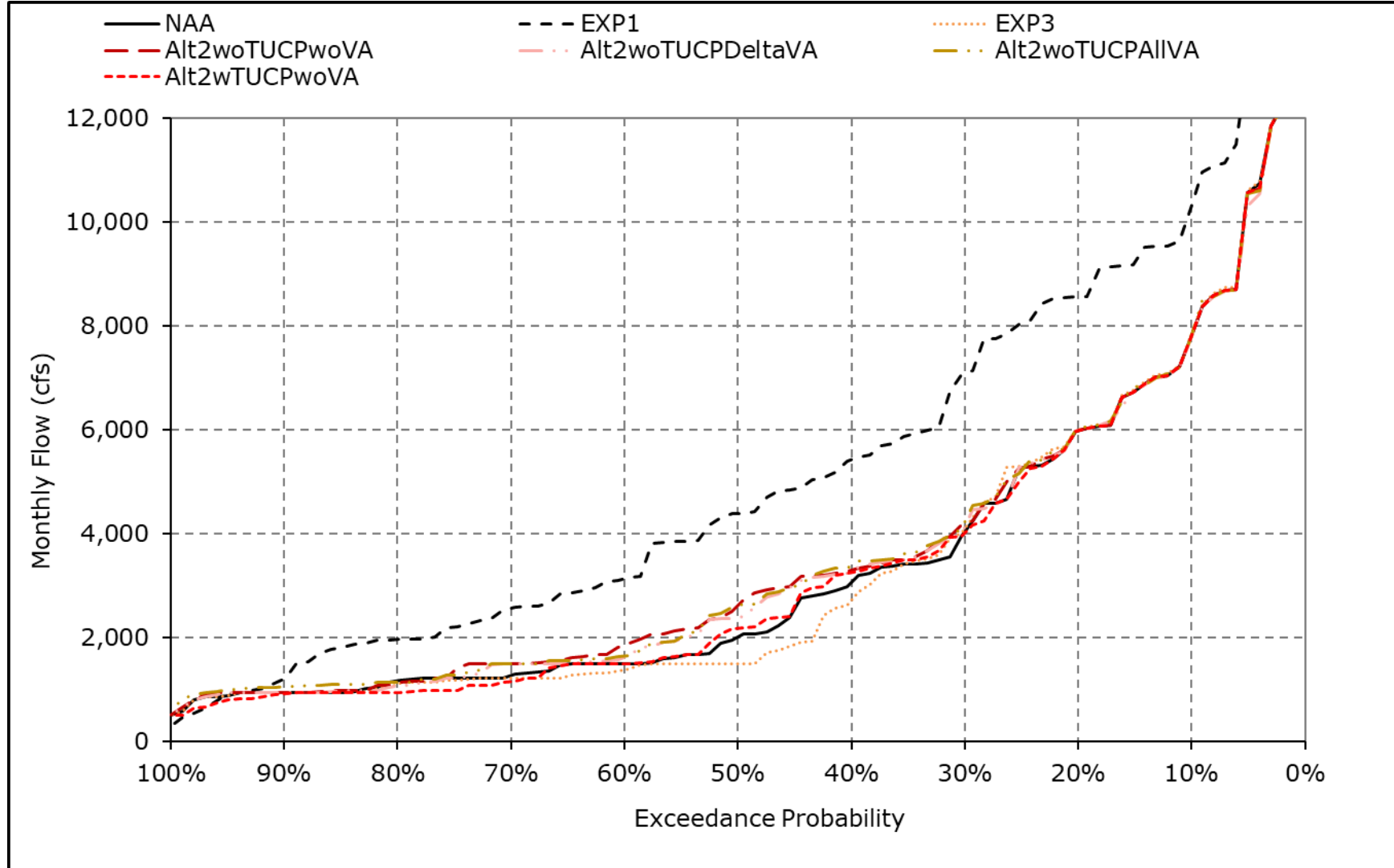
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-12. American River below Nimbus Dam Flow, March



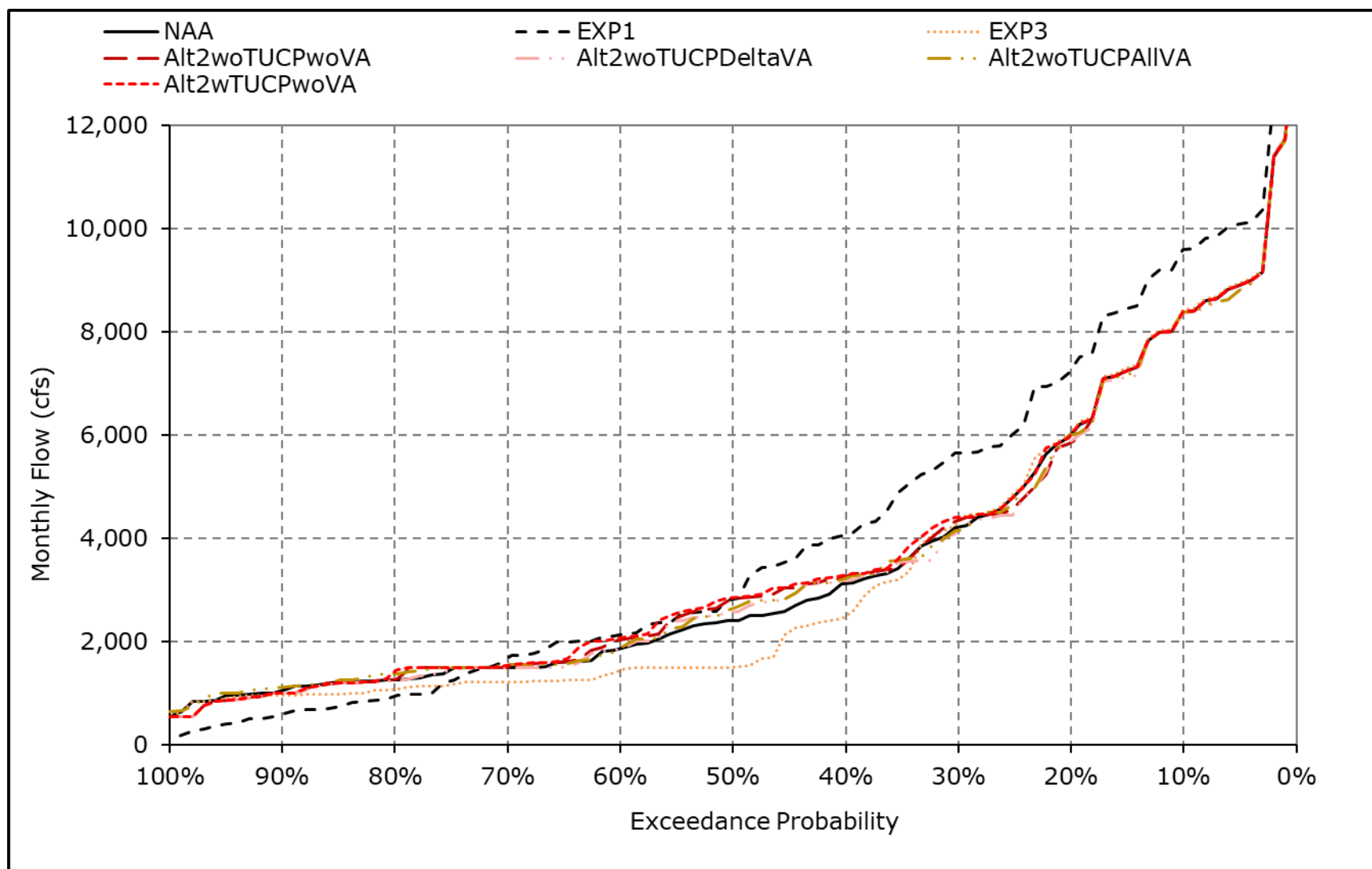
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-13. American River below Nimbus Dam Flow, April



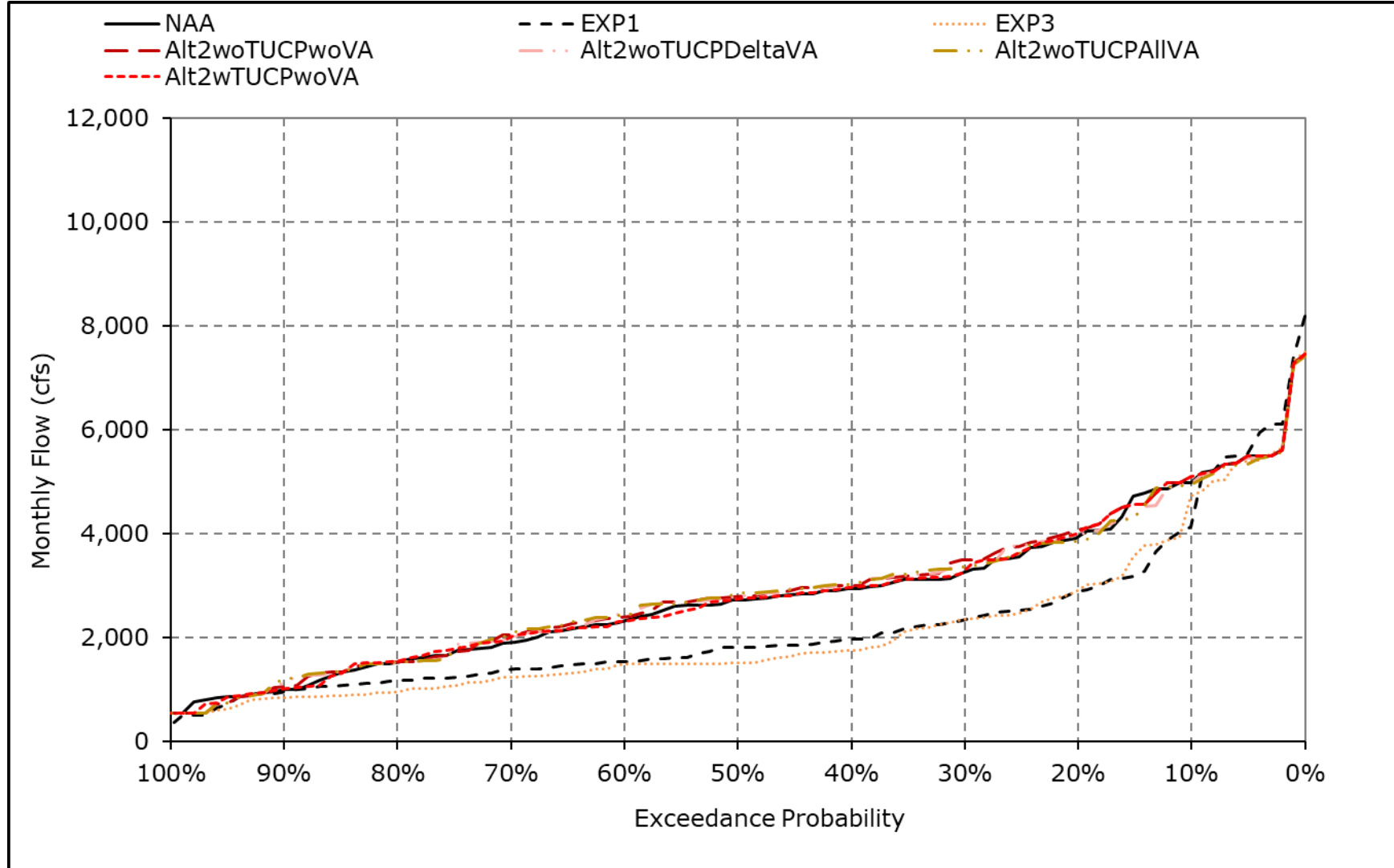
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-14. American River below Nimbus Dam Flow, May



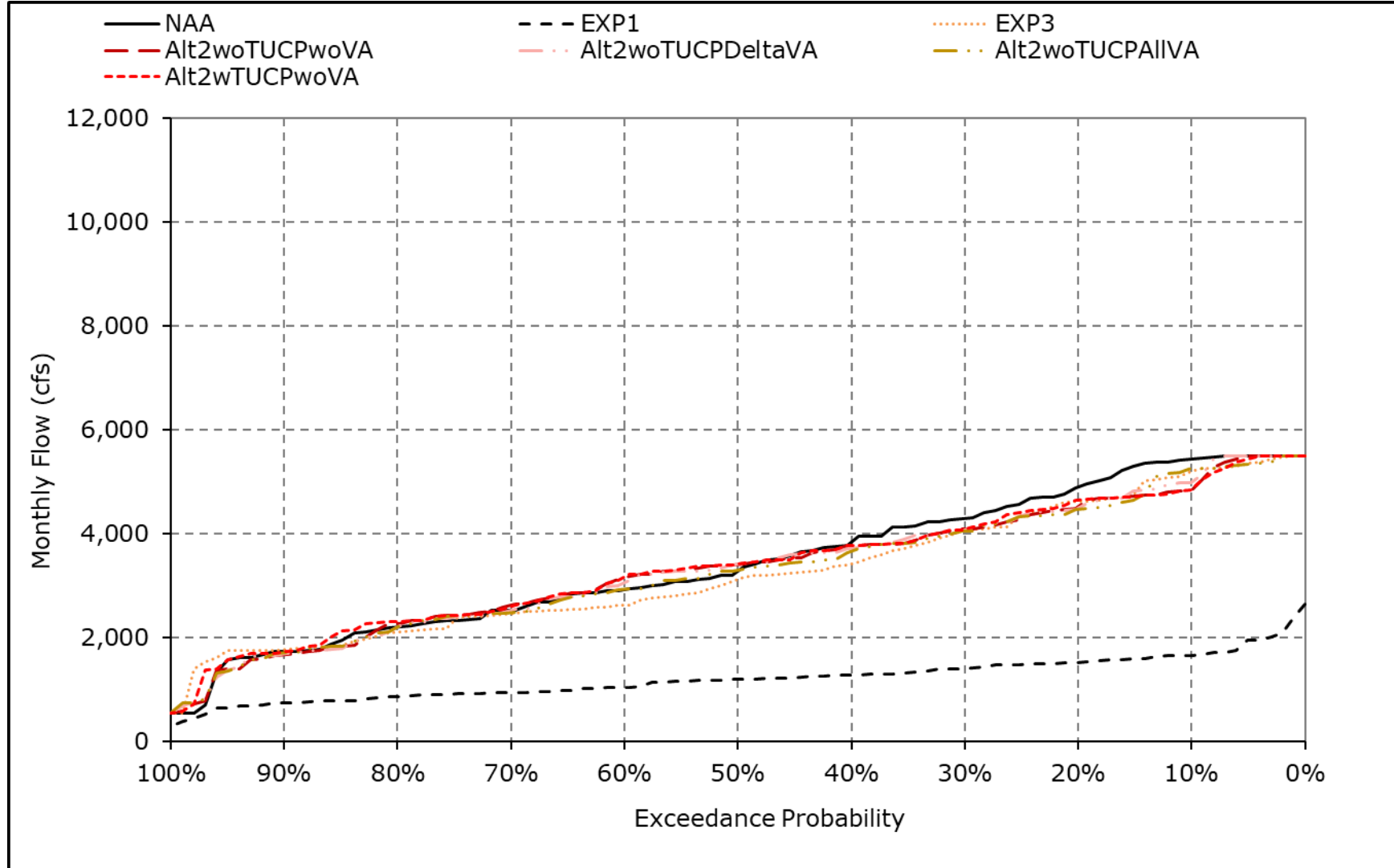
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-15. American River below Nimbus Dam Flow, June



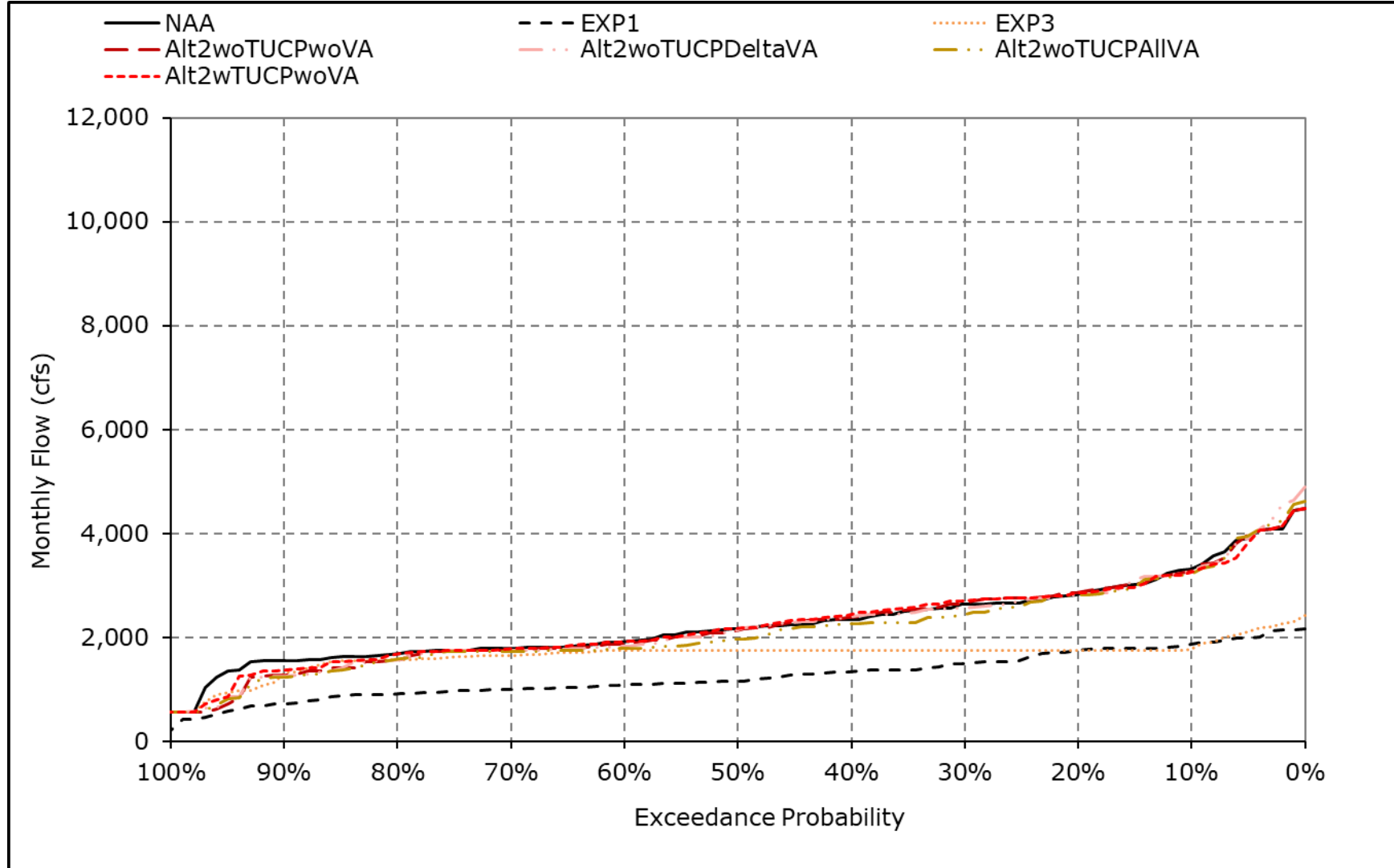
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-16. American River below Nimbus Dam Flow, July



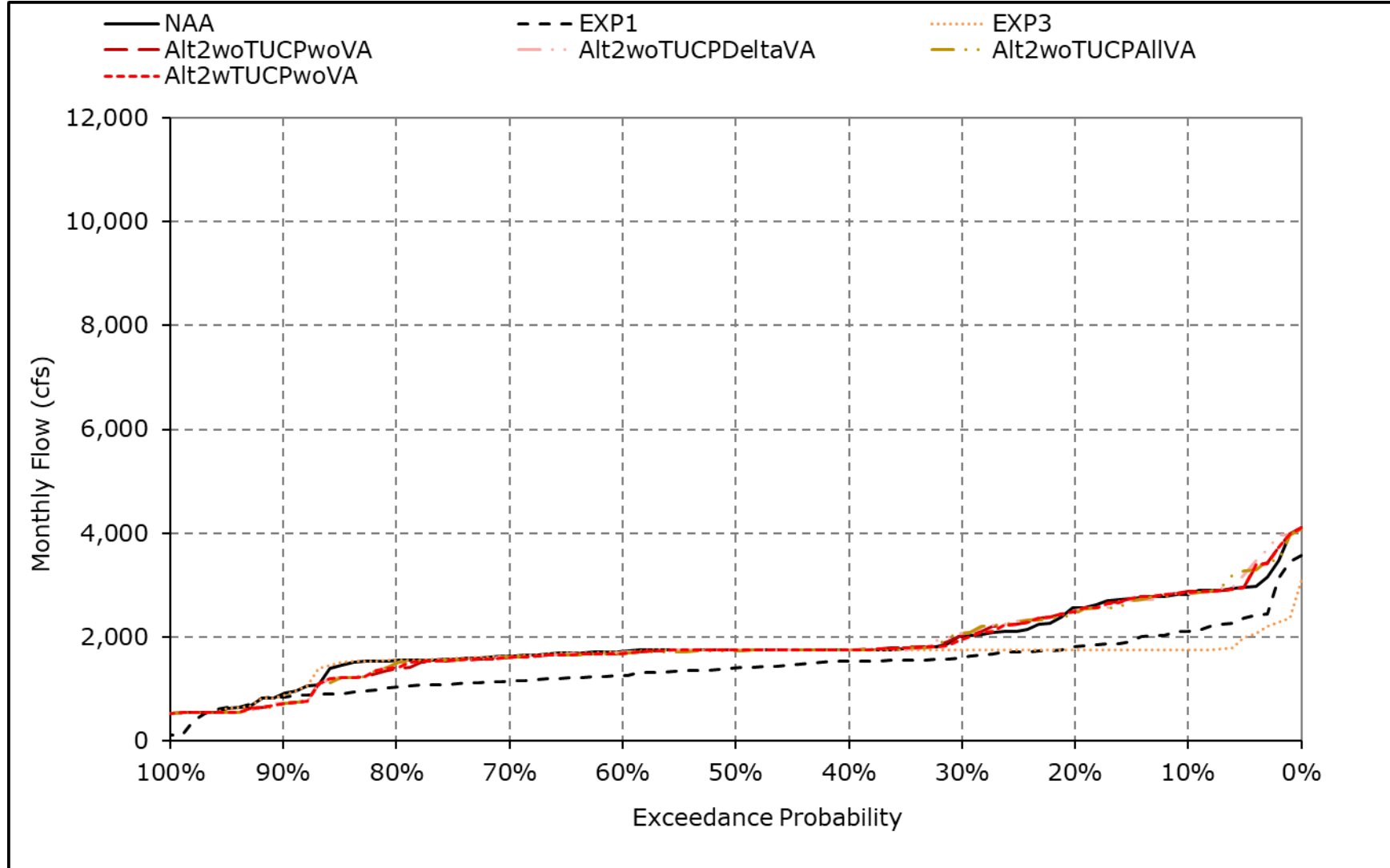
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-17. American River below Nimbus Dam Flow, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-12-18. American River below Nimbus Dam Flow, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-13-1a. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-1b. American River at H Street, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,117	4,806	11,022	12,877	13,930	9,756	7,755	8,259	4,920	4,650	3,103	2,700
20% Exceedance	1,692	3,735	5,063	8,633	10,621	5,988	5,924	5,712	3,890	4,321	2,688	2,320
30% Exceedance	1,493	2,863	3,333	6,192	7,706	4,753	4,090	4,185	3,315	3,895	2,483	1,872
40% Exceedance	1,430	2,340	2,111	4,104	5,789	3,182	3,188	3,110	2,854	3,566	2,191	1,638
50% Exceedance	1,400	1,917	1,949	2,573	4,174	2,636	2,482	2,682	2,625	3,221	1,959	1,611
60% Exceedance	1,359	1,790	1,920	1,442	2,960	1,716	1,768	1,918	2,261	2,932	1,706	1,543
70% Exceedance	873	1,116	1,590	1,341	1,949	1,529	1,449	1,414	1,907	2,440	1,598	1,469
80% Exceedance	593	734	915	1,254	1,397	931	1,032	1,140	1,358	2,104	1,388	1,239
90% Exceedance	441	521	589	566	1,251	872	864	867	892	1,491	1,078	591
Full Simulation Period Average ^a	1,349	2,509	3,905	5,262	6,337	3,985	3,633	3,503	2,735	3,158	2,051	1,705
Wet Water Years (28%)	1,793	4,044	4,825	11,667	12,307	7,643	6,758	6,245	3,547	3,365	2,600	2,388
Above Normal Water Years (14%)	1,863	2,326	3,311	6,784	7,519	4,937	3,213	3,268	3,271	4,114	2,133	2,196
Below Normal Water Years (18%)	1,307	1,948	4,181	2,765	4,532	2,683	2,685	2,963	2,613	4,047	2,353	1,587
Dry Water Years (24%)	1,054	2,189	4,944	1,527	3,243	1,916	2,158	2,641	2,346	2,871	1,734	1,328
Critical Water Years (16%)	527	1,008	789	1,130	1,525	1,318	1,809	812	1,564	1,387	1,151	781

Table F.2.2-13-1c. American River at H Street, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-147	-17	-30	0	1	0	0	0	72	-595	-32	29
20% Exceedance	41	51	164	390	2	388	0	-165	112	-382	38	-81
30% Exceedance	8	65	42	128	402	147	88	107	229	-195	45	21
40% Exceedance	13	41	-129	179	87	64	208	99	90	-70	30	5
50% Exceedance	6	7	-7	-101	253	150	570	383	60	127	-19	0
60% Exceedance	-20	-87	-12	-229	-11	35	320	180	107	204	-37	-39
70% Exceedance	-149	-117	-255	-92	196	11	265	7	169	118	-29	-31
80% Exceedance	-50	-224	-148	-90	-143	-419	-18	-9	0	123	-106	-172
90% Exceedance	-65	-116	-62	-145	-79	-45	12	-50	82	-54	-291	-164
Full Simulation Period Average ^a	-46	-27	-47	-36	29	9	161	50	64	-85	-51	-18
Wet Water Years (28%)	24	44	1	21	0	0	0	0	31	-88	-35	22
Above Normal Water Years (14%)	80	-13	-21	245	26	16	-3	68	130	-302	50	65
Below Normal Water Years (18%)	-161	12	89	-137	218	-49	-52	153	15	-297	93	-26
Dry Water Years (24%)	-76	-11	-180	-98	67	-96	81	289	-70	166	-43	-60
Critical Water Years (16%)	-119	-243	-116	-173	-187	243	947	-353	320	-29	-344	-85

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-2a. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-2b. American River at H Street, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,170	4,745	11,024	12,867	13,928	9,749	7,734	8,239	4,813	4,782	3,081	2,678
20% Exceedance	1,614	3,672	5,057	8,863	10,619	6,028	5,944	5,738	3,788	4,306	2,640	2,358
30% Exceedance	1,482	3,206	3,315	6,128	7,457	4,746	4,044	4,018	3,190	3,888	2,378	1,926
40% Exceedance	1,416	2,213	2,098	4,224	5,767	3,176	3,176	3,036	2,862	3,515	2,209	1,630
50% Exceedance	1,394	1,908	1,946	2,671	4,122	2,711	2,294	2,455	2,630	3,224	1,943	1,611
60% Exceedance	1,359	1,721	1,917	1,463	3,150	1,715	1,573	1,741	2,282	2,859	1,661	1,562
70% Exceedance	826	1,091	1,530	1,340	1,894	1,529	1,435	1,402	1,862	2,332	1,594	1,479
80% Exceedance	553	734	853	1,255	1,353	925	988	1,114	1,351	2,056	1,391	1,358
90% Exceedance	441	519	589	582	1,245	872	858	867	953	1,505	1,055	594
Full Simulation Period Average ^a	1,334	2,484	3,888	5,288	6,333	3,988	3,578	3,438	2,713	3,155	2,046	1,719
Wet Water Years (28%)	1,787	4,064	4,812	11,660	12,315	7,640	6,759	6,201	3,512	3,348	2,557	2,387
Above Normal Water Years (14%)	1,796	2,347	3,301	6,846	7,560	4,934	3,195	3,176	3,185	4,192	1,994	2,220
Below Normal Water Years (18%)	1,336	1,981	4,141	2,706	4,386	2,710	2,654	2,847	2,586	3,993	2,374	1,594
Dry Water Years (24%)	1,037	2,073	4,941	1,518	3,306	1,939	2,070	2,562	2,383	2,857	1,769	1,342
Critical Water Years (16%)	501	934	757	1,337	1,521	1,282	1,650	812	1,540	1,417	1,243	819

Table F.2.2-13-2c. American River at H Street, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-94	-77	-27	-9	0	-7	-21	-20	-35	-462	-54	8
20% Exceedance	-36	-13	157	620	0	428	20	-138	9	-397	-10	-43
30% Exceedance	-4	408	24	64	153	140	42	-60	104	-202	-60	75
40% Exceedance	0	-87	-142	298	66	57	196	25	98	-120	48	-3
50% Exceedance	0	-2	-11	-4	201	225	382	156	65	129	-35	1
60% Exceedance	-21	-156	-15	-207	179	34	125	4	127	131	-81	-19
70% Exceedance	-196	-142	-315	-93	140	12	251	-5	124	10	-33	-21
80% Exceedance	-91	-224	-210	-88	-187	-425	-62	-35	-7	74	-103	-52
90% Exceedance	-65	-118	-62	-129	-85	-45	6	-50	143	-40	-314	-160
Full Simulation Period Average ^a	-61	-51	-65	-9	25	13	107	-16	42	-87	-56	-4
Wet Water Years (28%)	18	65	-12	14	9	-2	0	-45	-4	-106	-78	20
Above Normal Water Years (14%)	13	7	-31	307	67	13	-21	-24	44	-224	-89	90
Below Normal Water Years (18%)	-131	45	49	-196	72	-22	-82	36	-12	-351	114	-20
Dry Water Years (24%)	-94	-127	-183	-108	130	-73	-7	210	-33	152	-8	-46
Critical Water Years (16%)	-146	-316	-148	34	-191	208	788	-353	296	1	-252	-48

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-3a. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-3b. American River at H Street, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,224	4,671	11,260	12,843	13,927	9,749	7,757	8,251	4,808	5,044	3,018	2,688
20% Exceedance	1,628	3,774	5,050	8,950	10,909	6,083	5,956	5,917	3,725	4,280	2,630	2,290
30% Exceedance	1,478	3,002	3,333	6,150	7,457	4,778	4,222	4,058	3,169	3,856	2,237	1,926
40% Exceedance	1,416	2,510	2,179	4,153	5,761	3,273	3,334	3,087	2,859	3,461	2,066	1,631
50% Exceedance	1,389	1,910	1,949	2,673	4,100	2,782	2,573	2,561	2,669	3,098	1,777	1,598
60% Exceedance	1,359	1,772	1,920	1,487	3,031	1,774	1,623	1,768	2,279	2,720	1,614	1,542
70% Exceedance	874	1,091	1,685	1,343	2,004	1,603	1,433	1,425	1,915	2,297	1,568	1,479
80% Exceedance	585	734	858	1,306	1,353	1,090	1,092	1,308	1,366	2,037	1,400	1,373
90% Exceedance	440	531	589	572	1,212	985	1,006	1,040	1,021	1,524	1,047	587
Full Simulation Period Average ^a	1,349	2,540	3,920	5,293	6,333	4,069	3,664	3,518	2,716	3,113	1,978	1,707
Wet Water Years (28%)	1,777	4,054	4,812	11,625	12,316	7,658	6,764	6,220	3,512	3,363	2,553	2,374
Above Normal Water Years (14%)	1,840	2,337	3,324	6,926	7,555	4,985	3,246	3,242	3,225	4,095	1,928	2,109
Below Normal Water Years (18%)	1,357	1,990	4,176	2,717	4,359	2,785	2,750	2,848	2,608	3,969	2,218	1,658
Dry Water Years (24%)	1,045	2,303	5,033	1,541	3,366	2,094	2,229	2,697	2,353	2,728	1,676	1,323
Critical Water Years (16%)	536	957	766	1,311	1,466	1,392	1,783	1,020	1,546	1,431	1,200	816

Table F.2.2-13-3c. American River at H Street, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-40	-152	209	-33	-2	-7	3	-8	-40	-201	-117	17
20% Exceedance	-22	89	150	707	290	483	31	40	-54	-423	-20	-111
30% Exceedance	-7	203	42	86	153	172	219	-20	83	-235	-201	75
40% Exceedance	0	210	-61	227	60	155	354	76	95	-175	-94	-2
50% Exceedance	-6	0	-7	-2	179	296	661	262	104	3	-201	-12
60% Exceedance	-21	-105	-12	-184	61	94	175	30	125	-9	-129	-39
70% Exceedance	-148	-142	-160	-90	251	85	250	18	176	-26	-59	-21
80% Exceedance	-58	-224	-204	-37	-186	-260	42	159	8	56	-94	-37
90% Exceedance	-66	-106	-62	-140	-117	69	154	123	211	-21	-322	-167
Full Simulation Period Average ^a	-46	5	-32	-4	26	93	192	65	45	-130	-124	-17
Wet Water Years (28%)	8	54	-12	-21	10	16	6	-25	-4	-91	-82	7
Above Normal Water Years (14%)	57	-3	-8	387	62	64	30	41	83	-321	-155	-22
Below Normal Water Years (18%)	-110	53	83	-185	46	53	14	37	10	-375	-42	45
Dry Water Years (24%)	-86	102	-92	-84	190	82	152	345	-63	23	-101	-65
Critical Water Years (16%)	-111	-293	-139	8	-246	318	921	-145	302	15	-295	-50

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-4a. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-4b. American River at H Street, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,256	4,806	11,021	12,877	13,931	9,756	7,754	8,259	4,923	4,664	3,087	2,700
20% Exceedance	1,722	3,735	5,063	8,771	10,621	5,988	5,925	5,883	3,842	4,433	2,665	2,324
30% Exceedance	1,516	2,879	3,335	6,192	7,298	4,606	3,962	4,262	3,127	3,911	2,509	1,801
40% Exceedance	1,439	2,214	2,146	4,106	5,790	3,114	3,150	3,147	2,798	3,563	2,235	1,636
50% Exceedance	1,403	1,917	1,955	2,677	4,180	2,355	2,100	2,719	2,599	3,250	1,986	1,611
60% Exceedance	1,359	1,813	1,923	1,494	2,982	1,680	1,456	1,944	2,142	2,962	1,740	1,543
70% Exceedance	825	1,138	1,774	1,350	2,042	1,529	1,057	1,433	1,832	2,415	1,606	1,469
80% Exceedance	586	760	1,057	1,319	1,409	925	876	1,308	1,369	2,114	1,492	1,337
90% Exceedance	452	557	601	657	1,251	869	811	867	834	1,542	1,179	589
Full Simulation Period Average ^a	1,365	2,515	3,953	5,327	6,339	3,929	3,462	3,555	2,688	3,193	2,078	1,704
Wet Water Years (28%)	1,792	4,049	4,829	11,667	12,307	7,643	6,758	6,245	3,541	3,364	2,597	2,387
Above Normal Water Years (14%)	1,851	2,328	3,308	6,811	7,521	4,937	3,213	3,268	3,282	4,106	2,153	2,197
Below Normal Water Years (18%)	1,395	1,925	4,162	2,831	4,525	2,683	2,685	2,947	2,614	4,063	2,367	1,587
Dry Water Years (24%)	1,053	2,176	4,945	1,528	3,252	1,915	2,142	2,639	2,343	2,880	1,730	1,328
Critical Water Years (16%)	543	1,089	1,125	1,436	1,535	972	763	1,156	1,278	1,587	1,303	771

Table F.2.2-13-4c. American River at H Street, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-7	-17	-30	0	2	0	0	0	75	-581	-48	29
20% Exceedance	72	51	163	528	2	388	0	7	63	-269	15	-77
30% Exceedance	30	80	44	128	-6	0	-40	184	41	-179	71	-50
40% Exceedance	23	-86	-94	181	89	-4	170	135	34	-73	74	4
50% Exceedance	9	7	-2	2	259	-130	188	420	34	155	8	0
60% Exceedance	-20	-64	-8	-177	12	0	8	207	-12	234	-2	-39
70% Exceedance	-197	-95	-71	-83	289	11	-127	26	93	93	-21	-31
80% Exceedance	-57	-198	-5	-25	-130	-425	-174	159	11	133	-2	-74
90% Exceedance	-55	-80	-50	-55	-79	-47	-41	-51	24	-3	-190	-165
Full Simulation Period Average ^a	-31	-20	0	29	32	-46	-10	102	17	-50	-24	-20
Wet Water Years (28%)	23	49	5	22	0	0	0	0	25	-90	-38	20
Above Normal Water Years (14%)	68	-12	-24	272	28	16	-3	68	141	-310	71	66
Below Normal Water Years (18%)	-72	-11	70	-71	211	-49	-51	137	16	-281	106	-26
Dry Water Years (24%)	-78	-24	-180	-97	76	-97	65	288	-73	176	-47	-60
Critical Water Years (16%)	-104	-162	220	133	-177	-103	-99	-9	34	171	-192	-96

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-5a. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-5b. American River at H Street, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,390	7,778	11,497	12,886	13,932	9,760	7,763	8,288	4,546	4,990	1,615	1,611
20% Exceedance	1,380	7,196	5,236	9,377	11,080	6,009	5,937	5,905	2,744	4,380	1,578	1,606
30% Exceedance	1,377	5,596	3,971	6,528	7,717	4,613	4,053	4,152	2,162	3,825	1,568	1,598
40% Exceedance	1,370	4,310	3,103	4,113	6,107	3,093	2,627	2,385	1,579	3,203	1,563	1,589
50% Exceedance	1,361	3,504	2,366	3,238	4,511	2,093	1,423	1,395	1,344	2,893	1,553	1,582
60% Exceedance	1,337	2,525	1,935	2,318	3,321	1,661	1,265	1,303	1,295	2,406	1,544	1,550
70% Exceedance	897	1,889	1,900	1,575	2,075	1,521	1,089	1,071	1,040	2,253	1,447	1,473
80% Exceedance	609	867	1,633	1,337	1,637	1,333	1,007	924	763	1,892	1,362	1,393
90% Exceedance	466	574	688	1,229	1,321	903	835	828	649	1,590	1,097	711
Full Simulation Period Average ^a	1,189	4,214	4,375	5,632	6,535	3,976	3,379	3,228	1,925	3,044	1,456	1,451
Wet Water Years (28%)	1,490	6,500	4,928	11,865	12,316	7,648	6,768	6,256	3,156	3,099	1,604	1,715
Above Normal Water Years (14%)	1,364	3,693	4,072	7,093	7,648	4,956	3,214	3,125	2,143	4,274	1,556	1,588
Below Normal Water Years (18%)	1,275	3,221	4,797	3,365	4,638	2,736	2,747	2,434	1,595	3,874	1,674	1,558
Dry Water Years (24%)	1,076	4,316	5,536	2,057	3,715	1,978	1,684	1,738	1,269	2,569	1,383	1,362
Critical Water Years (16%)	534	1,498	1,280	1,358	1,810	1,087	846	1,145	933	1,651	977	880

Table F.2.2-13-5c. American River at H Street, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-874	2,955	446	9	4	4	9	29	-303	-255	-1,520	-1,060
20% Exceedance	-270	3,512	336	1,134	461	409	12	28	-1,034	-323	-1,072	-795
30% Exceedance	-108	2,797	680	464	413	8	50	74	-924	-266	-870	-253
40% Exceedance	-46	2,010	863	188	406	-26	-353	-626	-1,185	-433	-598	-44
50% Exceedance	-34	1,594	409	563	590	-393	-490	-904	-1,221	-202	-425	-29
60% Exceedance	-42	648	4	648	351	-20	-183	-434	-860	-322	-199	-32
70% Exceedance	-125	656	55	143	322	4	-94	-336	-699	-69	-180	-27
80% Exceedance	-35	-91	571	-6	98	-17	-43	-225	-595	-89	-133	-18
90% Exceedance	-40	-63	37	518	-9	-13	-16	-90	-161	45	-271	-43
Full Simulation Period Average ^a	-206	1,679	422	334	228	1	-92	-226	-746	-199	-645	-272
Wet Water Years (28%)	-279	2,500	104	219	10	5	10	11	-360	-355	-1,031	-652
Above Normal Water Years (14%)	-419	1,353	740	554	155	35	-2	-75	-998	-142	-526	-543
Below Normal Water Years (18%)	-192	1,285	705	463	324	4	11	-377	-1,003	-470	-586	-55
Dry Water Years (24%)	-55	2,116	412	431	539	-35	-393	-613	-1,147	-136	-394	-26
Critical Water Years (16%)	-113	248	375	55	98	13	-16	-20	-310	235	-518	14

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-6a. American River at H Street, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,696	3,894	11,491	12,473	13,917	12,810	10,210	9,451	4,047	1,525	1,698	1,912
20% Exceedance	1,379	2,358	6,297	9,781	11,083	9,081	8,478	7,102	2,736	1,447	1,574	1,672
30% Exceedance	1,170	1,680	4,117	6,561	7,759	7,672	7,056	5,480	2,161	1,285	1,311	1,450
40% Exceedance	1,036	1,402	3,636	4,253	6,189	6,154	5,293	3,927	1,771	1,149	1,166	1,367
50% Exceedance	923	1,281	2,823	3,511	4,514	5,153	4,273	2,682	1,609	1,070	1,097	1,264
60% Exceedance	759	1,079	2,236	2,516	3,514	4,301	3,016	1,984	1,332	992	973	1,099
70% Exceedance	525	998	1,778	1,824	2,596	2,991	2,460	1,544	1,209	896	874	971
80% Exceedance	389	881	1,516	1,233	1,980	2,265	1,841	798	1,020	749	809	871
90% Exceedance	263	676	1,324	843	1,468	1,661	1,075	461	819	623	678	687
Full Simulation Period Average ^a	1,053	1,964	4,624	5,731	6,668	6,236	5,269	3,966	2,054	1,097	1,132	1,273
Wet Water Years (28%)	1,341	2,594	4,819	11,834	12,329	10,583	9,138	7,233	3,324	1,246	1,332	1,823
Above Normal Water Years (14%)	1,196	1,799	4,244	7,517	7,648	7,837	5,514	4,152	2,057	983	1,163	1,358
Below Normal Water Years (18%)	1,163	1,631	4,943	3,656	4,698	5,188	4,886	3,059	1,842	1,162	1,225	1,249
Dry Water Years (24%)	1,011	2,282	5,635	2,137	4,005	3,907	3,521	2,586	1,386	1,084	1,014	1,050
Critical Water Years (16%)	312	841	2,641	1,216	2,114	1,901	1,341	1,178	1,071	881	828	600

Table F.2.2-13-6b. American River at H Street, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,117	4,806	11,022	12,877	13,930	9,756	7,755	8,259	4,920	4,650	3,103	2,700
20% Exceedance	1,692	3,735	5,063	8,633	10,621	5,988	5,924	5,712	3,890	4,321	2,688	2,320
30% Exceedance	1,493	2,863	3,333	6,192	7,706	4,753	4,090	4,185	3,315	3,895	2,483	1,872
40% Exceedance	1,430	2,340	2,111	4,104	5,789	3,182	3,188	3,110	2,854	3,566	2,191	1,638
50% Exceedance	1,400	1,917	1,949	2,573	4,174	2,636	2,482	2,682	2,625	3,221	1,959	1,611
60% Exceedance	1,359	1,790	1,920	1,442	2,960	1,716	1,768	1,918	2,261	2,932	1,706	1,543
70% Exceedance	873	1,116	1,590	1,341	1,949	1,529	1,449	1,414	1,907	2,440	1,598	1,469
80% Exceedance	593	734	915	1,254	1,397	931	1,032	1,140	1,358	2,104	1,388	1,239
90% Exceedance	441	521	589	566	1,251	872	864	867	892	1,491	1,078	591
Full Simulation Period Average ^a	1,349	2,509	3,905	5,262	6,337	3,985	3,633	3,503	2,735	3,158	2,051	1,705
Wet Water Years (28%)	1,793	4,044	4,825	11,667	12,307	7,643	6,758	6,245	3,547	3,365	2,600	2,388
Above Normal Water Years (14%)	1,863	2,326	3,311	6,784	7,519	4,937	3,213	3,268	3,271	4,114	2,133	2,196
Below Normal Water Years (18%)	1,307	1,948	4,181	2,765	4,532	2,683	2,685	2,963	2,613	4,047	2,353	1,587
Dry Water Years (24%)	1,054	2,189	4,944	1,527	3,243	1,916	2,158	2,641	2,346	2,871	1,734	1,328
Critical Water Years (16%)	527	1,008	789	1,130	1,525	1,318	1,809	812	1,564	1,387	1,151	781

Table F.2.2-13-6c. American River at H Street, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	421	911	-469	404	13	-3,053	-2,455	-1,191	873	3,125	1,406	788
20% Exceedance	313	1,378	-1,234	-1,148	-461	-3,092	-2,553	-1,390	1,154	2,874	1,114	648
30% Exceedance	323	1,183	-784	-369	-53	-2,919	-2,965	-1,295	1,154	2,610	1,172	422
40% Exceedance	394	939	-1,526	-148	-401	-2,972	-2,105	-817	1,083	2,416	1,025	271
50% Exceedance	477	636	-873	-937	-340	-2,517	-1,790	-1	1,015	2,151	862	347
60% Exceedance	600	710	-316	-1,074	-554	-2,585	-1,248	-66	930	1,940	733	443
70% Exceedance	348	118	-187	-484	-647	-1,462	-1,012	-130	698	1,544	724	498
80% Exceedance	204	-147	-601	20	-583	-1,334	-809	342	338	1,356	579	367
90% Exceedance	179	-155	-736	-277	-218	-789	-211	406	73	868	400	-97
Full Simulation Period Average ^a	295	545	-719	-470	-331	-2,252	-1,637	-463	680	2,061	918	432
Wet Water Years (28%)	452	1,450	6	-167	-22	-2,941	-2,380	-988	223	2,119	1,268	565
Above Normal Water Years (14%)	666	527	-933	-734	-130	-2,900	-2,301	-884	1,215	3,131	969	838
Below Normal Water Years (18%)	144	317	-762	-890	-167	-2,505	-2,201	-96	771	2,885	1,128	337
Dry Water Years (24%)	44	-93	-691	-609	-762	-1,991	-1,362	55	960	1,787	720	278
Critical Water Years (16%)	215	167	-1,853	-86	-588	-584	468	-365	492	506	323	181

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-7a. American River at H Street, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,696	3,894	11,491	12,473	13,917	12,810	10,210	9,451	4,047	1,525	1,698	1,912
20% Exceedance	1,379	2,358	6,297	9,781	11,083	9,081	8,478	7,102	2,736	1,447	1,574	1,672
30% Exceedance	1,170	1,680	4,117	6,561	7,759	7,672	7,056	5,480	2,161	1,285	1,311	1,450
40% Exceedance	1,036	1,402	3,636	4,253	6,189	6,154	5,293	3,927	1,771	1,149	1,166	1,367
50% Exceedance	923	1,281	2,823	3,511	4,514	5,153	4,273	2,682	1,609	1,070	1,097	1,264
60% Exceedance	759	1,079	2,236	2,516	3,514	4,301	3,016	1,984	1,332	992	973	1,099
70% Exceedance	525	998	1,778	1,824	2,596	2,991	2,460	1,544	1,209	896	874	971
80% Exceedance	389	881	1,516	1,233	1,980	2,265	1,841	798	1,020	749	809	871
90% Exceedance	263	676	1,324	843	1,468	1,661	1,075	461	819	623	678	687
Full Simulation Period Average ^a	1,053	1,964	4,624	5,731	6,668	6,236	5,269	3,966	2,054	1,097	1,132	1,273
Wet Water Years (28%)	1,341	2,594	4,819	11,834	12,329	10,583	9,138	7,233	3,324	1,246	1,332	1,823
Above Normal Water Years (14%)	1,196	1,799	4,244	7,517	7,648	7,837	5,514	4,152	2,057	983	1,163	1,358
Below Normal Water Years (18%)	1,163	1,631	4,943	3,656	4,698	5,188	4,886	3,059	1,842	1,162	1,225	1,249
Dry Water Years (24%)	1,011	2,282	5,635	2,137	4,005	3,907	3,521	2,586	1,386	1,084	1,014	1,050
Critical Water Years (16%)	312	841	2,641	1,216	2,114	1,901	1,341	1,178	1,071	881	828	600

Table F.2.2-13-7b. American River at H Street, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,170	4,745	11,024	12,867	13,928	9,749	7,734	8,239	4,813	4,782	3,081	2,678
20% Exceedance	1,614	3,672	5,057	8,863	10,619	6,028	5,944	5,738	3,788	4,306	2,640	2,358
30% Exceedance	1,482	3,206	3,315	6,128	7,457	4,746	4,044	4,018	3,190	3,888	2,378	1,926
40% Exceedance	1,416	2,213	2,098	4,224	5,767	3,176	3,176	3,036	2,862	3,515	2,209	1,630
50% Exceedance	1,394	1,908	1,946	2,671	4,122	2,711	2,294	2,455	2,630	3,224	1,943	1,611
60% Exceedance	1,359	1,721	1,917	1,463	3,150	1,715	1,573	1,741	2,282	2,859	1,661	1,562
70% Exceedance	826	1,091	1,530	1,340	1,894	1,529	1,435	1,402	1,862	2,332	1,594	1,479
80% Exceedance	553	734	853	1,255	1,353	925	988	1,114	1,351	2,056	1,391	1,358
90% Exceedance	441	519	589	582	1,245	872	858	867	953	1,505	1,055	594
Full Simulation Period Average ^a	1,334	2,484	3,888	5,288	6,333	3,988	3,578	3,438	2,713	3,155	2,046	1,719
Wet Water Years (28%)	1,787	4,064	4,812	11,660	12,315	7,640	6,759	6,201	3,512	3,348	2,557	2,387
Above Normal Water Years (14%)	1,796	2,347	3,301	6,846	7,560	4,934	3,195	3,176	3,185	4,192	1,994	2,220
Below Normal Water Years (18%)	1,336	1,981	4,141	2,706	4,386	2,710	2,654	2,847	2,586	3,993	2,374	1,594
Dry Water Years (24%)	1,037	2,073	4,941	1,518	3,306	1,939	2,070	2,562	2,383	2,857	1,769	1,342
Critical Water Years (16%)	501	934	757	1,337	1,521	1,282	1,650	812	1,540	1,417	1,243	819

Table F.2.2-13-7c. American River at H Street, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	474	851	-467	394	11	-3,060	-2,476	-1,212	767	3,258	1,384	766
20% Exceedance	235	1,314	-1,240	-918	-463	-3,052	-2,533	-1,363	1,051	2,859	1,066	686
30% Exceedance	311	1,526	-802	-433	-303	-2,925	-3,011	-1,462	1,029	2,603	1,067	476
40% Exceedance	380	811	-1,539	-29	-422	-2,979	-2,117	-891	1,091	2,366	1,043	263
50% Exceedance	471	627	-877	-840	-392	-2,442	-1,978	-228	1,020	2,153	845	347
60% Exceedance	599	641	-319	-1,053	-364	-2,586	-1,443	-243	950	1,867	688	463
70% Exceedance	301	92	-247	-485	-702	-1,462	-1,026	-142	653	1,436	720	508
80% Exceedance	163	-147	-664	22	-627	-1,340	-853	316	331	1,307	582	487
90% Exceedance	178	-157	-736	-261	-224	-789	-217	406	135	882	377	-93
Full Simulation Period Average ^a	281	521	-737	-443	-335	-2,248	-1,691	-528	659	2,059	914	446
Wet Water Years (28%)	446	1,470	-6	-174	-14	-2,943	-2,379	-1,032	187	2,102	1,225	564
Above Normal Water Years (14%)	600	547	-943	-671	-89	-2,903	-2,319	-976	1,128	3,209	831	863
Below Normal Water Years (18%)	173	350	-802	-950	-312	-2,478	-2,231	-213	744	2,832	1,149	344
Dry Water Years (24%)	26	-209	-694	-619	-699	-1,967	-1,450	-24	998	1,773	755	291
Critical Water Years (16%)	189	94	-1,884	121	-592	-619	309	-366	469	536	415	219

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-8a. American River at H Street, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,696	3,894	11,491	12,473	13,917	12,810	10,210	9,451	4,047	1,525	1,698	1,912
20% Exceedance	1,379	2,358	6,297	9,781	11,083	9,081	8,478	7,102	2,736	1,447	1,574	1,672
30% Exceedance	1,170	1,680	4,117	6,561	7,759	7,672	7,056	5,480	2,161	1,285	1,311	1,450
40% Exceedance	1,036	1,402	3,636	4,253	6,189	6,154	5,293	3,927	1,771	1,149	1,166	1,367
50% Exceedance	923	1,281	2,823	3,511	4,514	5,153	4,273	2,682	1,609	1,070	1,097	1,264
60% Exceedance	759	1,079	2,236	2,516	3,514	4,301	3,016	1,984	1,332	992	973	1,099
70% Exceedance	525	998	1,778	1,824	2,596	2,991	2,460	1,544	1,209	896	874	971
80% Exceedance	389	881	1,516	1,233	1,980	2,265	1,841	798	1,020	749	809	871
90% Exceedance	263	676	1,324	843	1,468	1,661	1,075	461	819	623	678	687
Full Simulation Period Average ^a	1,053	1,964	4,624	5,731	6,668	6,236	5,269	3,966	2,054	1,097	1,132	1,273
Wet Water Years (28%)	1,341	2,594	4,819	11,834	12,329	10,583	9,138	7,233	3,324	1,246	1,332	1,823
Above Normal Water Years (14%)	1,196	1,799	4,244	7,517	7,648	7,837	5,514	4,152	2,057	983	1,163	1,358
Below Normal Water Years (18%)	1,163	1,631	4,943	3,656	4,698	5,188	4,886	3,059	1,842	1,162	1,225	1,249
Dry Water Years (24%)	1,011	2,282	5,635	2,137	4,005	3,907	3,521	2,586	1,386	1,084	1,014	1,050
Critical Water Years (16%)	312	841	2,641	1,216	2,114	1,901	1,341	1,178	1,071	881	828	600

Table F.2.2-13-8b. American River at H Street, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,224	4,671	11,260	12,843	13,927	9,749	7,757	8,251	4,808	5,044	3,018	2,688
20% Exceedance	1,628	3,774	5,050	8,950	10,909	6,083	5,956	5,917	3,725	4,280	2,630	2,290
30% Exceedance	1,478	3,002	3,333	6,150	7,457	4,778	4,222	4,058	3,169	3,856	2,237	1,926
40% Exceedance	1,416	2,510	2,179	4,153	5,761	3,273	3,334	3,087	2,859	3,461	2,066	1,631
50% Exceedance	1,389	1,910	1,949	2,673	4,100	2,782	2,573	2,561	2,669	3,098	1,777	1,598
60% Exceedance	1,359	1,772	1,920	1,487	3,031	1,774	1,623	1,768	2,279	2,720	1,614	1,542
70% Exceedance	874	1,091	1,685	1,343	2,004	1,603	1,433	1,425	1,915	2,297	1,568	1,479
80% Exceedance	585	734	858	1,306	1,353	1,090	1,092	1,308	1,366	2,037	1,400	1,373
90% Exceedance	440	531	589	572	1,212	985	1,006	1,040	1,021	1,524	1,047	587
Full Simulation Period Average ^a	1,349	2,540	3,920	5,293	6,333	4,069	3,664	3,518	2,716	3,113	1,978	1,707
Wet Water Years (28%)	1,777	4,054	4,812	11,625	12,316	7,658	6,764	6,220	3,512	3,363	2,553	2,374
Above Normal Water Years (14%)	1,840	2,337	3,324	6,926	7,555	4,985	3,246	3,242	3,225	4,095	1,928	2,109
Below Normal Water Years (18%)	1,357	1,990	4,176	2,717	4,359	2,785	2,750	2,848	2,608	3,969	2,218	1,658
Dry Water Years (24%)	1,045	2,303	5,033	1,541	3,366	2,094	2,229	2,697	2,353	2,728	1,676	1,323
Critical Water Years (16%)	536	957	766	1,311	1,466	1,392	1,783	1,020	1,546	1,431	1,200	816

Table F.2.2-13-8c. American River at H Street, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	528	776	-230	371	9	-3,061	-2,453	-1,200	761	3,519	1,321	776
20% Exceedance	249	1,416	-1,247	-831	-174	-2,998	-2,522	-1,185	989	2,833	1,056	618
30% Exceedance	308	1,322	-784	-411	-303	-2,893	-2,834	-1,422	1,008	2,570	926	476
40% Exceedance	381	1,108	-1,458	-100	-428	-2,881	-1,959	-839	1,087	2,312	900	264
50% Exceedance	466	630	-873	-838	-414	-2,372	-1,699	-121	1,060	2,028	680	334
60% Exceedance	599	693	-316	-1,029	-483	-2,527	-1,393	-216	948	1,727	641	443
70% Exceedance	349	92	-93	-481	-592	-1,388	-1,028	-119	705	1,401	693	508
80% Exceedance	196	-147	-658	73	-627	-1,176	-749	510	346	1,289	591	502
90% Exceedance	178	-144	-736	-271	-256	-676	-70	579	203	901	369	-100
Full Simulation Period Average ^a	296	576	-704	-438	-335	-2,167	-1,606	-448	662	2,016	846	433
Wet Water Years (28%)	437	1,460	-7	-209	-13	-2,925	-2,374	-1,013	187	2,116	1,221	551
Above Normal Water Years (14%)	644	538	-920	-592	-94	-2,852	-2,268	-911	1,168	3,113	765	751
Below Normal Water Years (18%)	194	359	-767	-938	-339	-2,403	-2,135	-212	765	2,807	993	409
Dry Water Years (24%)	34	20	-603	-595	-639	-1,813	-1,292	111	967	1,644	662	273
Critical Water Years (16%)	224	117	-1,875	95	-647	-509	442	-158	474	550	371	216

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-9a. American River at H Street, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,696	3,894	11,491	12,473	13,917	12,810	10,210	9,451	4,047	1,525	1,698	1,912
20% Exceedance	1,379	2,358	6,297	9,781	11,083	9,081	8,478	7,102	2,736	1,447	1,574	1,672
30% Exceedance	1,170	1,680	4,117	6,561	7,759	7,672	7,056	5,480	2,161	1,285	1,311	1,450
40% Exceedance	1,036	1,402	3,636	4,253	6,189	6,154	5,293	3,927	1,771	1,149	1,166	1,367
50% Exceedance	923	1,281	2,823	3,511	4,514	5,153	4,273	2,682	1,609	1,070	1,097	1,264
60% Exceedance	759	1,079	2,236	2,516	3,514	4,301	3,016	1,984	1,332	992	973	1,099
70% Exceedance	525	998	1,778	1,824	2,596	2,991	2,460	1,544	1,209	896	874	971
80% Exceedance	389	881	1,516	1,233	1,980	2,265	1,841	798	1,020	749	809	871
90% Exceedance	263	676	1,324	843	1,468	1,661	1,075	461	819	623	678	687
Full Simulation Period Average ^a	1,053	1,964	4,624	5,731	6,668	6,236	5,269	3,966	2,054	1,097	1,132	1,273
Wet Water Years (28%)	1,341	2,594	4,819	11,834	12,329	10,583	9,138	7,233	3,324	1,246	1,332	1,823
Above Normal Water Years (14%)	1,196	1,799	4,244	7,517	7,648	7,837	5,514	4,152	2,057	983	1,163	1,358
Below Normal Water Years (18%)	1,163	1,631	4,943	3,656	4,698	5,188	4,886	3,059	1,842	1,162	1,225	1,249
Dry Water Years (24%)	1,011	2,282	5,635	2,137	4,005	3,907	3,521	2,586	1,386	1,084	1,014	1,050
Critical Water Years (16%)	312	841	2,641	1,216	2,114	1,901	1,341	1,178	1,071	881	828	600

Table F.2.2-13-9b. American River at H Street, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,256	4,806	11,021	12,877	13,931	9,756	7,754	8,259	4,923	4,664	3,087	2,700
20% Exceedance	1,722	3,735	5,063	8,771	10,621	5,988	5,925	5,883	3,842	4,433	2,665	2,324
30% Exceedance	1,516	2,879	3,335	6,192	7,298	4,606	3,962	4,262	3,127	3,911	2,509	1,801
40% Exceedance	1,439	2,214	2,146	4,106	5,790	3,114	3,150	3,147	2,798	3,563	2,235	1,636
50% Exceedance	1,403	1,917	1,955	2,677	4,180	2,355	2,100	2,719	2,599	3,250	1,986	1,611
60% Exceedance	1,359	1,813	1,923	1,494	2,982	1,680	1,456	1,944	2,142	2,962	1,740	1,543
70% Exceedance	825	1,138	1,774	1,350	2,042	1,529	1,057	1,433	1,832	2,415	1,606	1,469
80% Exceedance	586	760	1,057	1,319	1,409	925	876	1,308	1,369	2,114	1,492	1,337
90% Exceedance	452	557	601	657	1,251	869	811	867	834	1,542	1,179	589
Full Simulation Period Average ^a	1,365	2,515	3,953	5,327	6,339	3,929	3,462	3,555	2,688	3,193	2,078	1,704
Wet Water Years (28%)	1,792	4,049	4,829	11,667	12,307	7,643	6,758	6,245	3,541	3,364	2,597	2,387
Above Normal Water Years (14%)	1,851	2,328	3,308	6,811	7,521	4,937	3,213	3,268	3,282	4,106	2,153	2,197
Below Normal Water Years (18%)	1,395	1,925	4,162	2,831	4,525	2,683	2,685	2,947	2,614	4,063	2,367	1,587
Dry Water Years (24%)	1,053	2,176	4,945	1,528	3,252	1,915	2,142	2,639	2,343	2,880	1,730	1,328
Critical Water Years (16%)	543	1,089	1,125	1,436	1,535	972	763	1,156	1,278	1,587	1,303	771

Table F.2.2-13-9c. American River at H Street, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	561	911	-469	404	14	-3,053	-2,456	-1,191	876	3,139	1,389	787
20% Exceedance	343	1,378	-1,234	-1,010	-462	-3,092	-2,553	-1,218	1,106	2,987	1,091	652
30% Exceedance	345	1,199	-782	-369	-461	-3,066	-3,093	-1,218	966	2,626	1,198	350
40% Exceedance	404	812	-1,490	-146	-399	-3,040	-2,142	-780	1,027	2,414	1,069	269
50% Exceedance	480	636	-868	-834	-334	-2,798	-2,173	37	990	2,179	889	347
60% Exceedance	600	734	-313	-1,022	-532	-2,621	-1,560	-39	811	1,970	767	443
70% Exceedance	300	140	-3	-475	-554	-1,462	-1,404	-111	622	1,519	732	498
80% Exceedance	197	-120	-459	85	-571	-1,340	-965	510	349	1,366	683	466
90% Exceedance	189	-119	-724	-186	-218	-792	-264	406	15	919	501	-98
Full Simulation Period Average ^a	311	551	-671	-405	-329	-2,307	-1,808	-411	634	2,097	946	430
Wet Water Years (28%)	452	1,454	10	-167	-22	-2,941	-2,380	-988	217	2,117	1,265	564
Above Normal Water Years (14%)	655	529	-936	-706	-128	-2,900	-2,301	-884	1,225	3,124	990	839
Below Normal Water Years (18%)	233	294	-780	-824	-173	-2,505	-2,200	-112	772	2,902	1,141	338
Dry Water Years (24%)	42	-106	-691	-609	-754	-1,992	-1,379	54	957	1,797	716	278
Critical Water Years (16%)	231	248	-1,517	220	-578	-929	-578	-22	206	706	475	171

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-13-10a. American River at H Street, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,696	3,894	11,491	12,473	13,917	12,810	10,210	9,451	4,047	1,525	1,698	1,912
20% Exceedance	1,379	2,358	6,297	9,781	11,083	9,081	8,478	7,102	2,736	1,447	1,574	1,672
30% Exceedance	1,170	1,680	4,117	6,561	7,759	7,672	7,056	5,480	2,161	1,285	1,311	1,450
40% Exceedance	1,036	1,402	3,636	4,253	6,189	6,154	5,293	3,927	1,771	1,149	1,166	1,367
50% Exceedance	923	1,281	2,823	3,511	4,514	5,153	4,273	2,682	1,609	1,070	1,097	1,264
60% Exceedance	759	1,079	2,236	2,516	3,514	4,301	3,016	1,984	1,332	992	973	1,099
70% Exceedance	525	998	1,778	1,824	2,596	2,991	2,460	1,544	1,209	896	874	971
80% Exceedance	389	881	1,516	1,233	1,980	2,265	1,841	798	1,020	749	809	871
90% Exceedance	263	676	1,324	843	1,468	1,661	1,075	461	819	623	678	687
Full Simulation Period Average ^a	1,053	1,964	4,624	5,731	6,668	6,236	5,269	3,966	2,054	1,097	1,132	1,273
Wet Water Years (28%)	1,341	2,594	4,819	11,834	12,329	10,583	9,138	7,233	3,324	1,246	1,332	1,823
Above Normal Water Years (14%)	1,196	1,799	4,244	7,517	7,648	7,837	5,514	4,152	2,057	983	1,163	1,358
Below Normal Water Years (18%)	1,163	1,631	4,943	3,656	4,698	5,188	4,886	3,059	1,842	1,162	1,225	1,249
Dry Water Years (24%)	1,011	2,282	5,635	2,137	4,005	3,907	3,521	2,586	1,386	1,084	1,014	1,050
Critical Water Years (16%)	312	841	2,641	1,216	2,114	1,901	1,341	1,178	1,071	881	828	600

Table F.2.2-13-10b. American River at H Street, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,264	4,822	11,051	12,877	13,928	9,756	7,755	8,259	4,848	5,245	3,135	2,671
20% Exceedance	1,650	3,684	4,900	8,243	10,619	5,600	5,925	5,877	3,779	4,703	2,650	2,401
30% Exceedance	1,485	2,799	3,291	6,064	7,304	4,606	4,003	4,078	3,086	4,090	2,438	1,851
40% Exceedance	1,416	2,300	2,240	3,926	5,702	3,118	2,980	3,011	2,764	3,636	2,161	1,633
50% Exceedance	1,394	1,910	1,957	2,674	3,921	2,486	1,913	2,299	2,565	3,095	1,978	1,610
60% Exceedance	1,379	1,877	1,931	1,671	2,970	1,680	1,448	1,737	2,155	2,728	1,743	1,581
70% Exceedance	1,022	1,233	1,846	1,433	1,753	1,518	1,183	1,407	1,739	2,322	1,627	1,500
80% Exceedance	643	958	1,063	1,343	1,539	1,350	1,050	1,149	1,358	1,981	1,494	1,410
90% Exceedance	506	637	651	712	1,330	916	852	917	810	1,545	1,369	754
Full Simulation Period Average ^a	1,395	2,535	3,953	5,297	6,307	3,976	3,471	3,453	2,671	3,243	2,102	1,723
Wet Water Years (28%)	1,769	4,000	4,824	11,646	12,307	7,643	6,758	6,245	3,516	3,454	2,635	2,367
Above Normal Water Years (14%)	1,783	2,340	3,332	6,539	7,493	4,921	3,216	3,200	3,141	4,416	2,082	2,131
Below Normal Water Years (18%)	1,467	1,936	4,092	2,902	4,314	2,732	2,736	2,811	2,598	4,344	2,260	1,613
Dry Water Years (24%)	1,131	2,200	5,124	1,625	3,176	2,012	2,077	2,351	2,416	2,705	1,777	1,388
Critical Water Years (16%)	647	1,251	905	1,303	1,712	1,075	862	1,165	1,244	1,416	1,495	867

Table F.2.2-13-10c. American River at H Street, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	568	928	-439	404	11	-3,053	-2,455	-1,192	802	3,720	1,437	758
20% Exceedance	271	1,327	-1,397	-1,538	-464	-3,480	-2,553	-1,225	1,042	3,256	1,076	729
30% Exceedance	315	1,118	-826	-497	-455	-3,066	-3,053	-1,402	925	2,805	1,127	400
40% Exceedance	381	898	-1,396	-327	-488	-3,036	-2,313	-916	993	2,486	995	265
50% Exceedance	472	629	-866	-836	-593	-2,668	-2,360	-383	956	2,025	880	347
60% Exceedance	620	797	-304	-845	-544	-2,621	-1,568	-246	823	1,736	769	482
70% Exceedance	497	235	68	-392	-843	-1,473	-1,277	-137	529	1,426	753	529
80% Exceedance	254	77	-454	110	-441	-915	-791	351	338	1,233	685	539
90% Exceedance	244	-39	-674	-131	-139	-744	-224	456	-8	922	691	67
Full Simulation Period Average ^a	342	571	-672	-434	-361	-2,261	-1,798	-513	617	2,146	970	450
Wet Water Years (28%)	428	1,406	5	-188	-22	-2,941	-2,380	-988	192	2,207	1,303	544
Above Normal Water Years (14%)	587	541	-912	-979	-156	-2,916	-2,298	-952	1,084	3,433	919	773
Below Normal Water Years (18%)	305	305	-851	-754	-385	-2,456	-2,149	-248	756	3,182	1,035	364
Dry Water Years (24%)	120	-82	-511	-511	-829	-1,895	-1,444	-234	1,031	1,621	763	338
Critical Water Years (16%)	335	410	-1,737	87	-401	-827	-479	-13	172	535	667	267

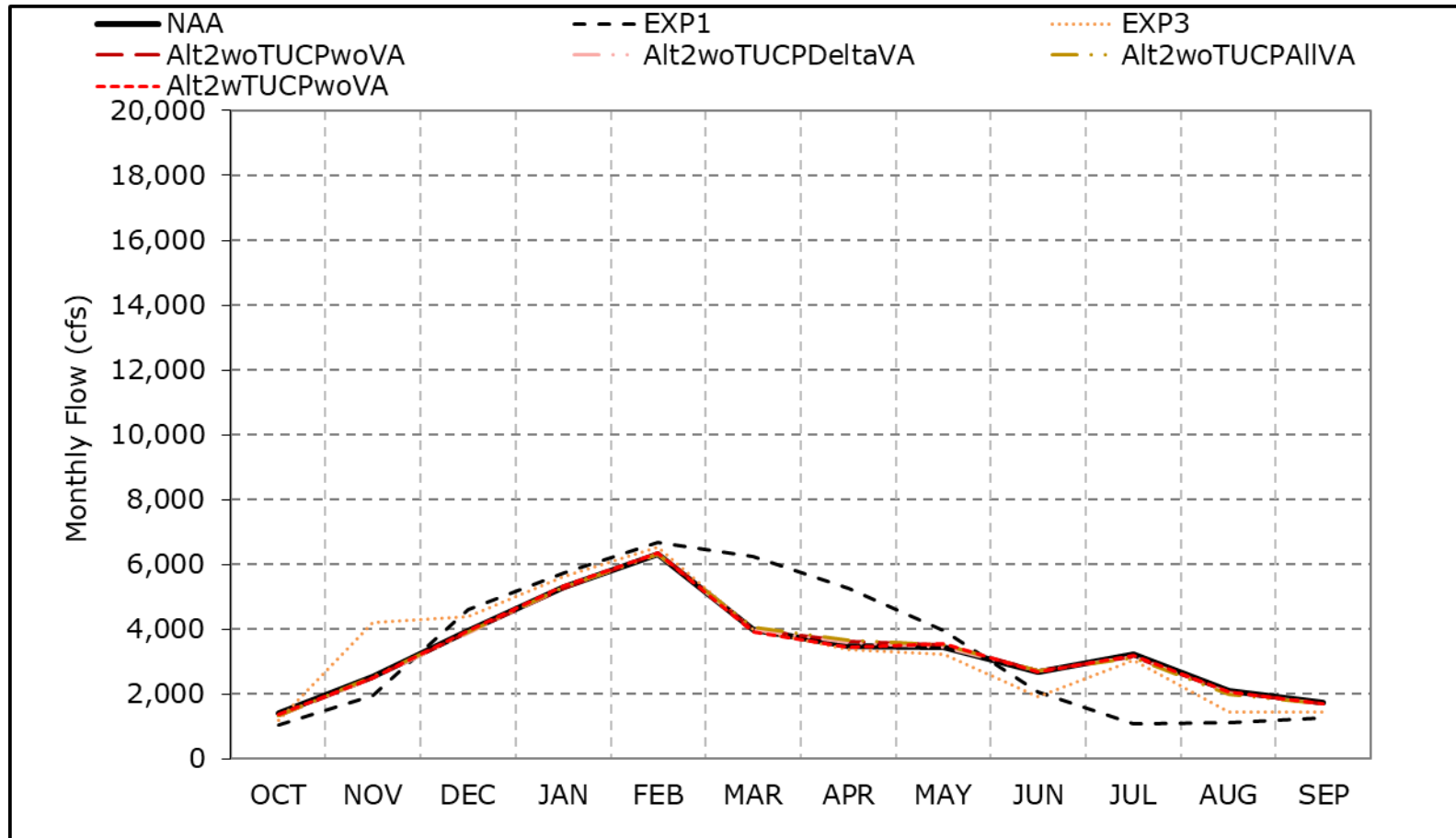
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-13-1. American River at H Street, Long-Term Average Flow

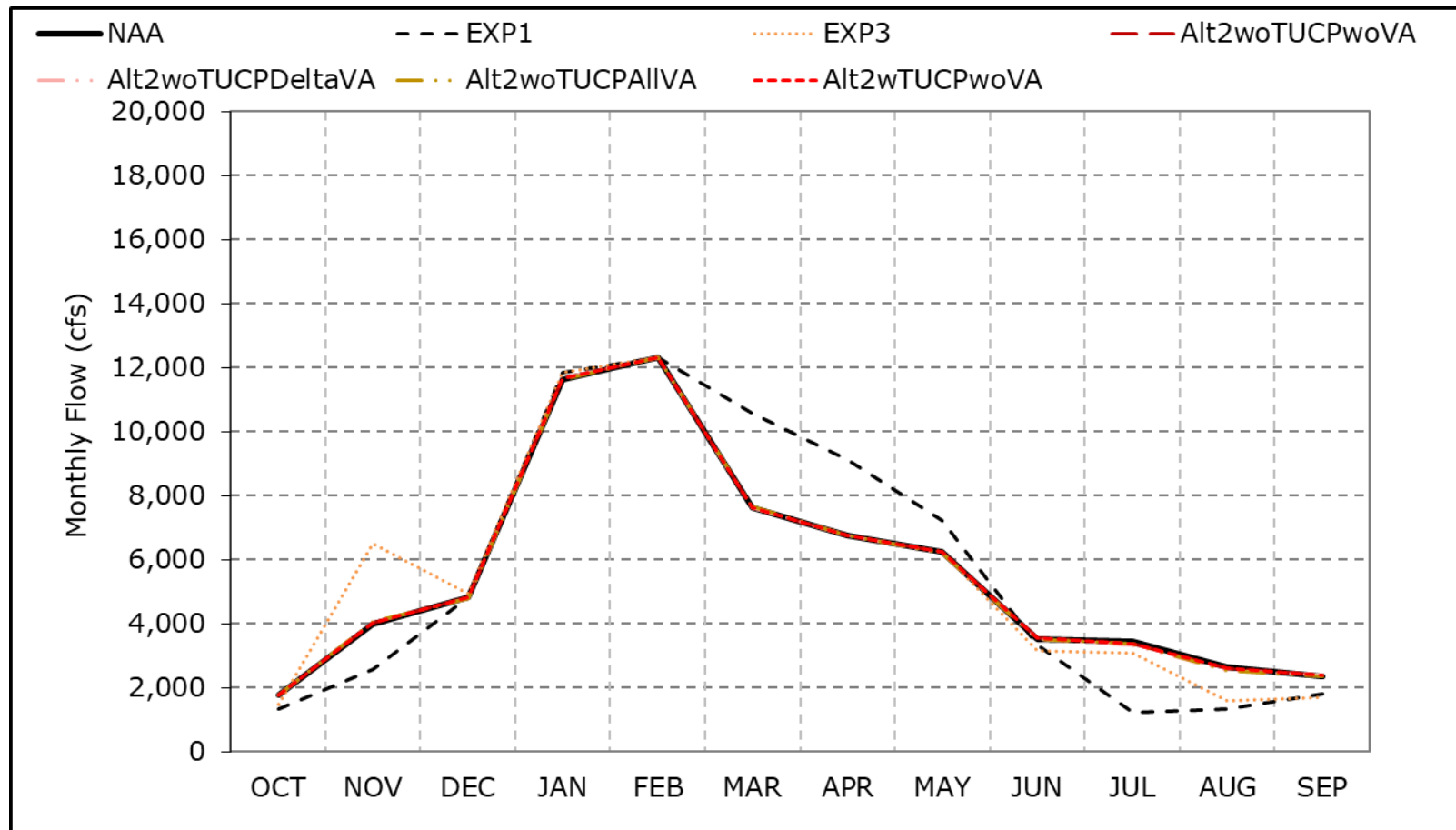


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-2. American River at H Street, Wet Year Average Flow

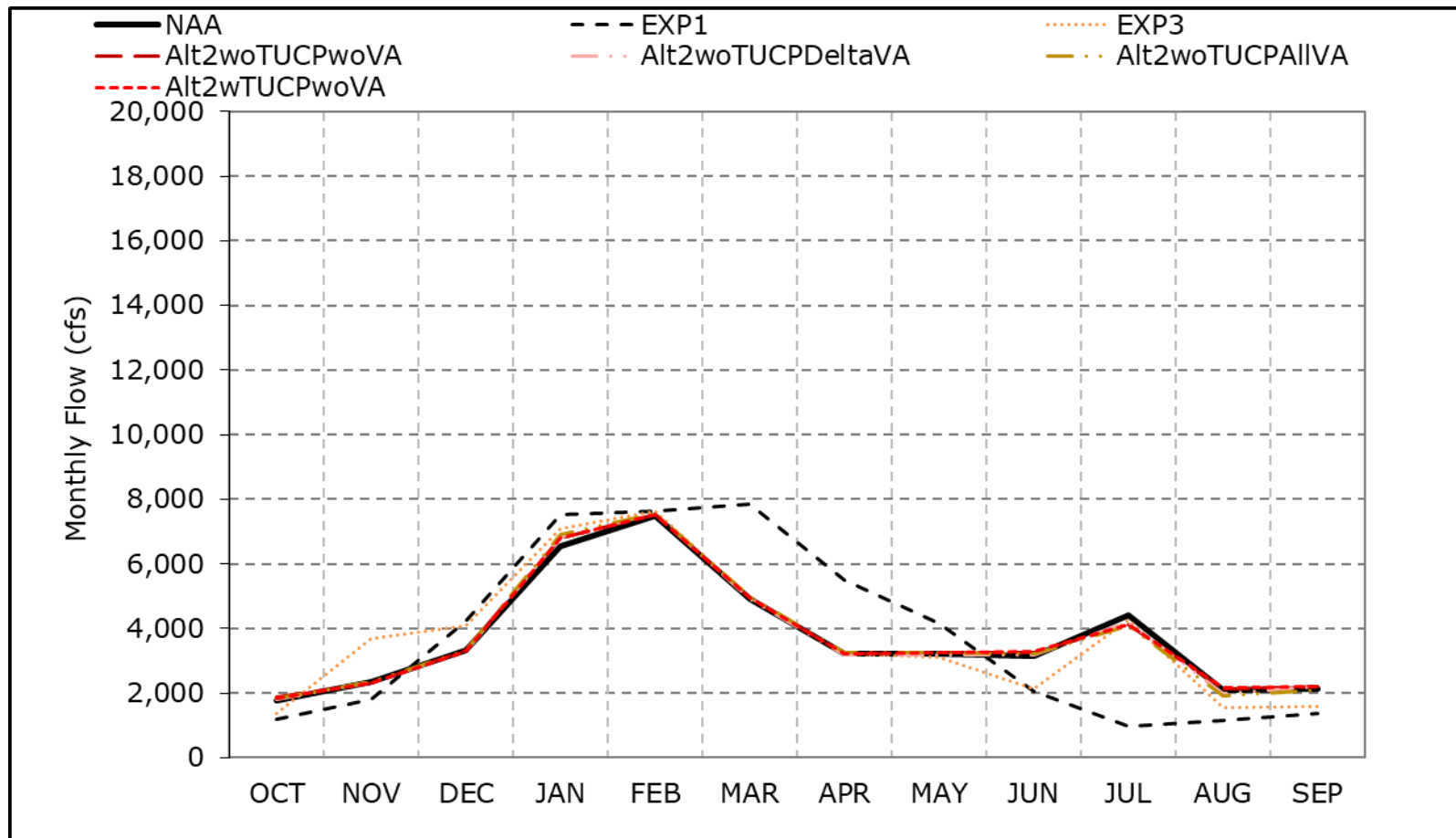


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-3. American River at H Street, Above Normal Year Average Flow

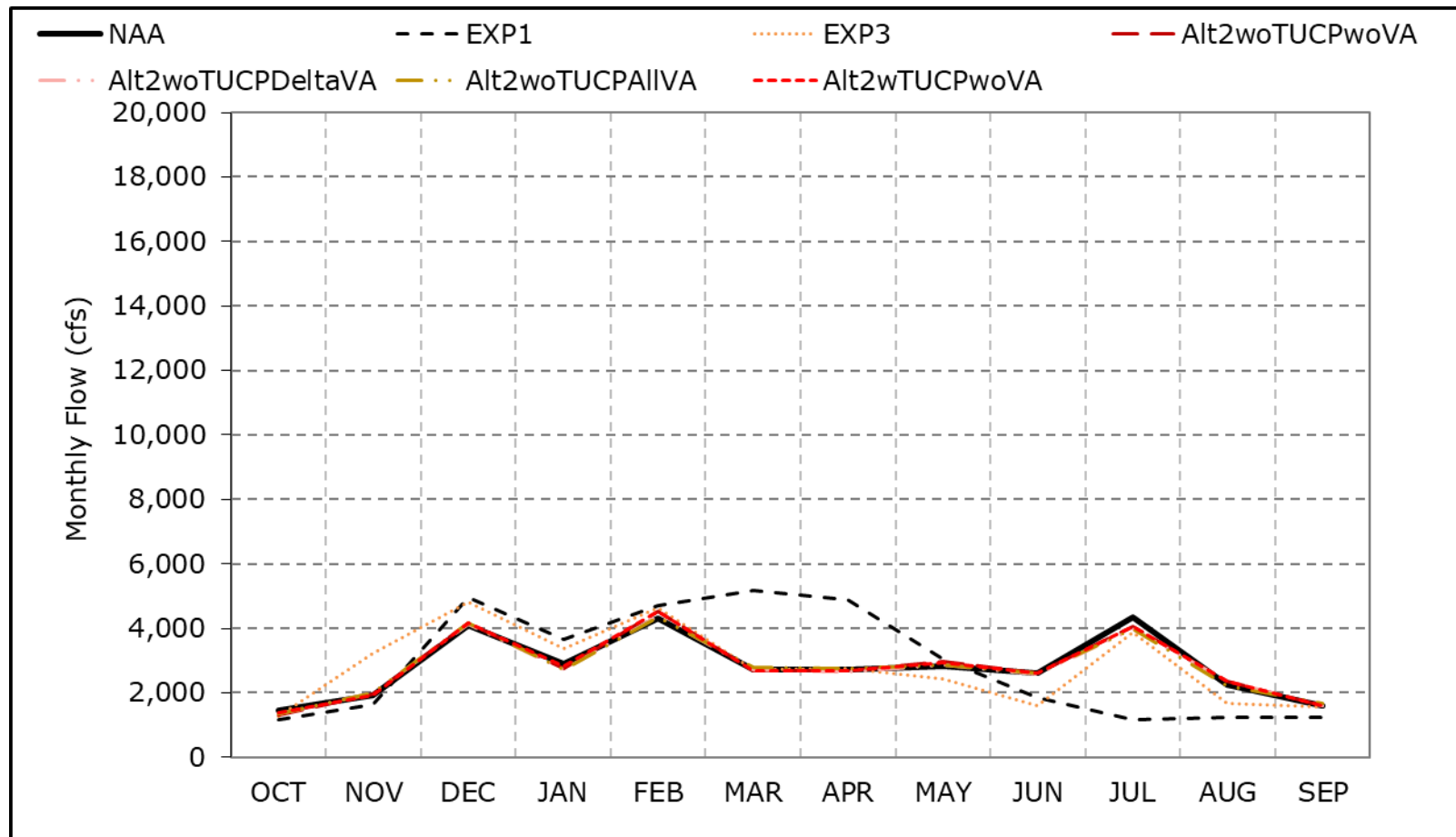


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-4. American River at H Street, Below Normal Year Average Flow

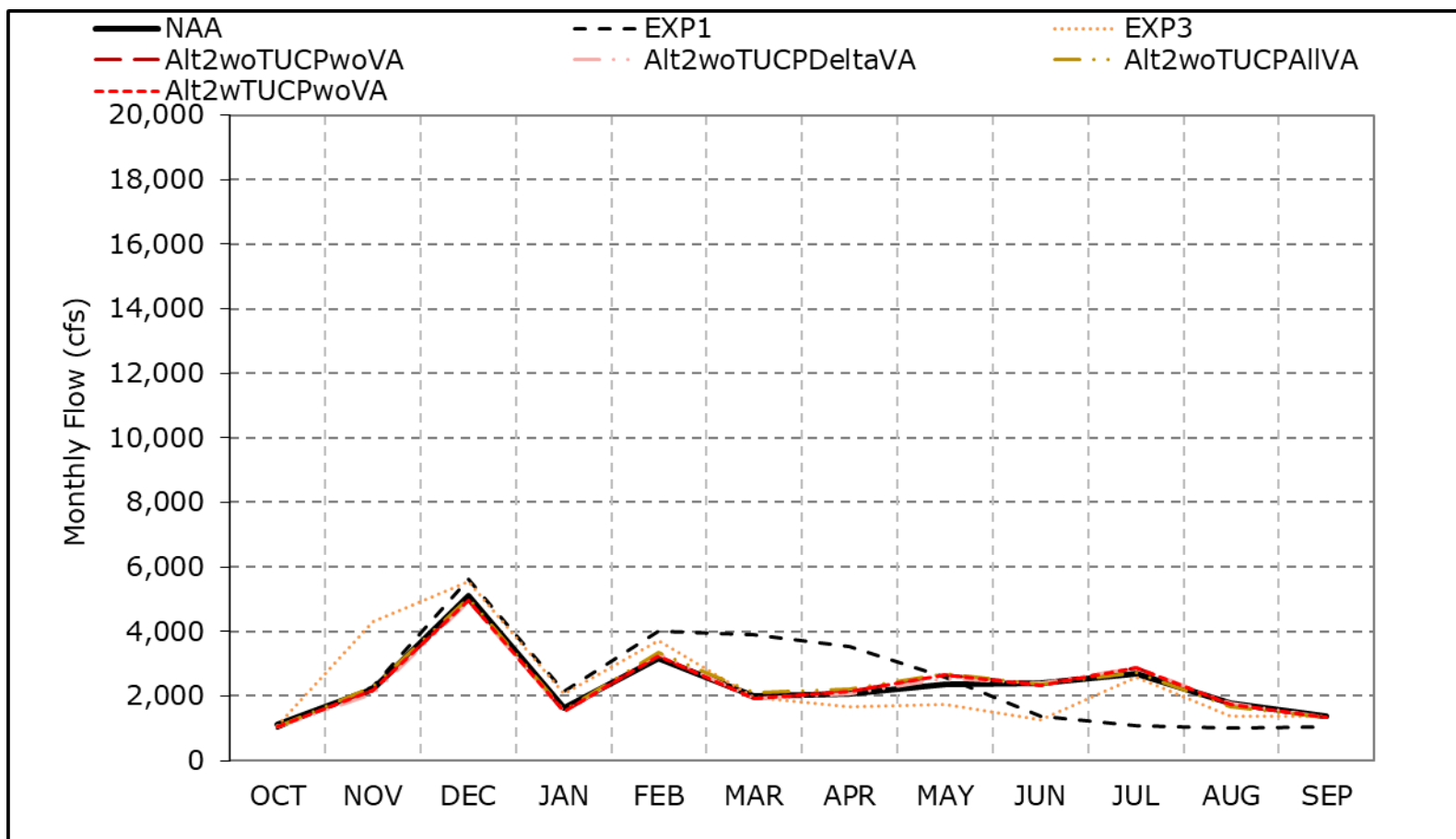


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-5. American River at H Street, Dry Year Average Flow

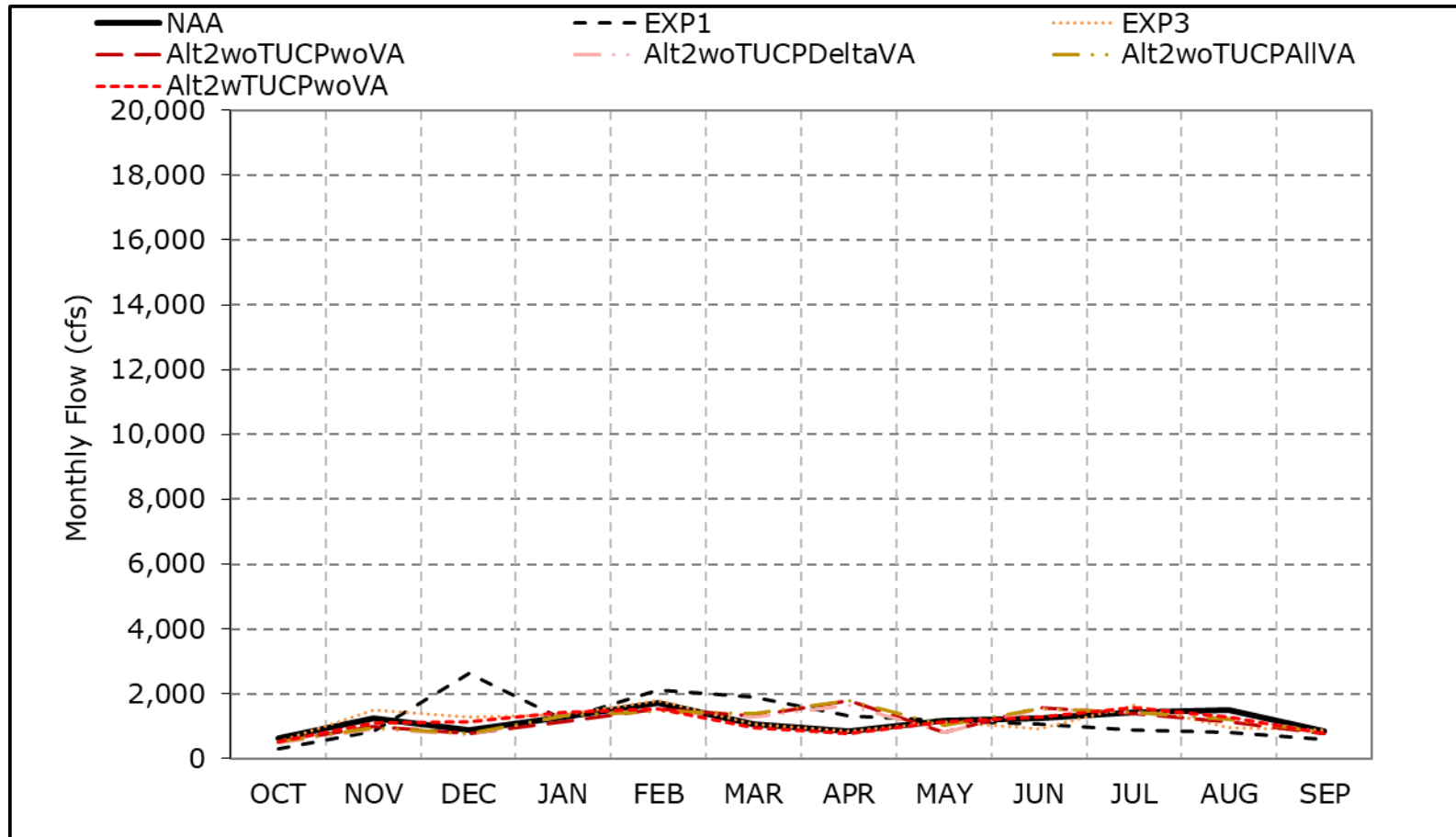


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-6. American River at H Street, Critical Year Average Flow

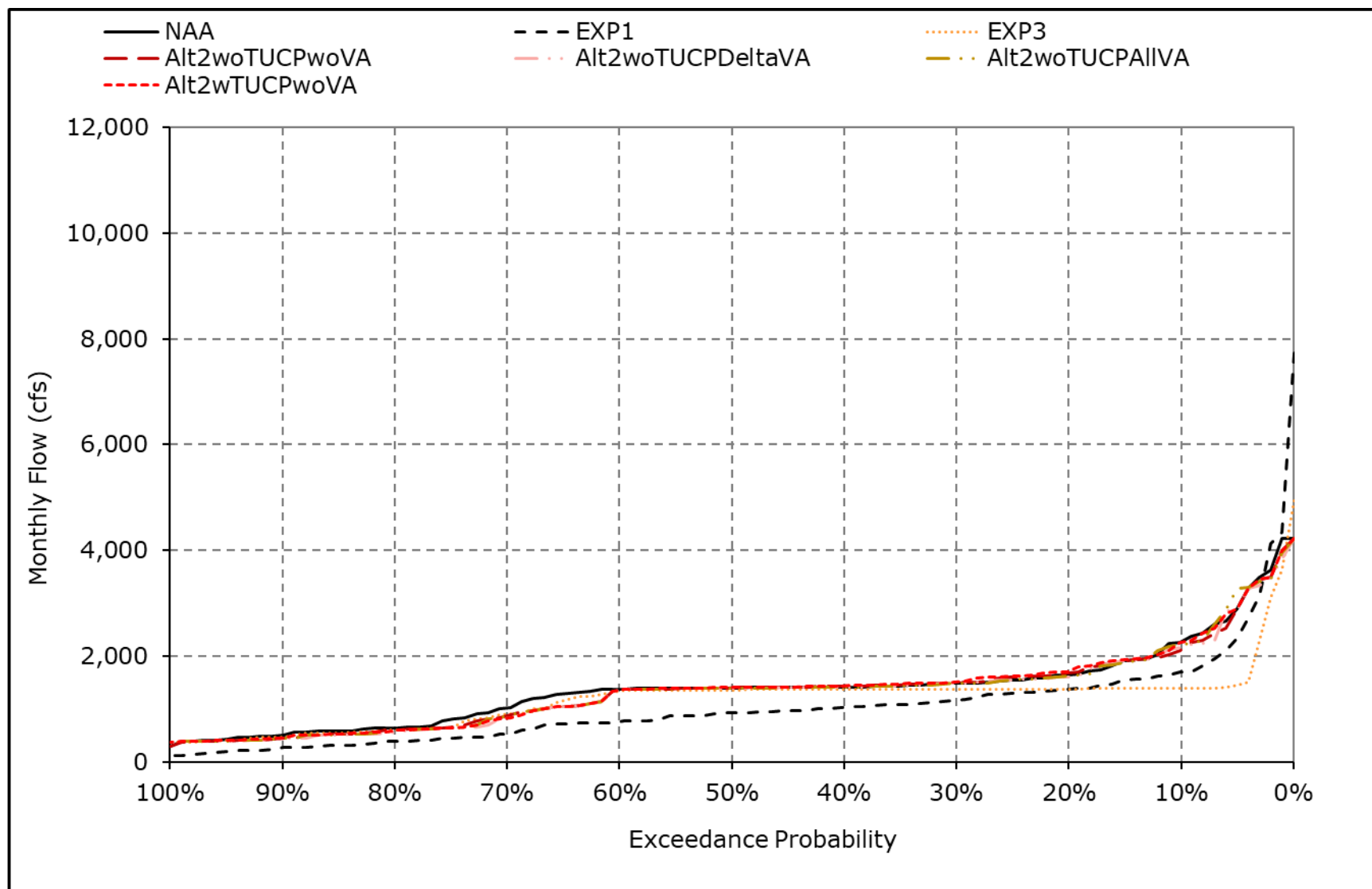


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

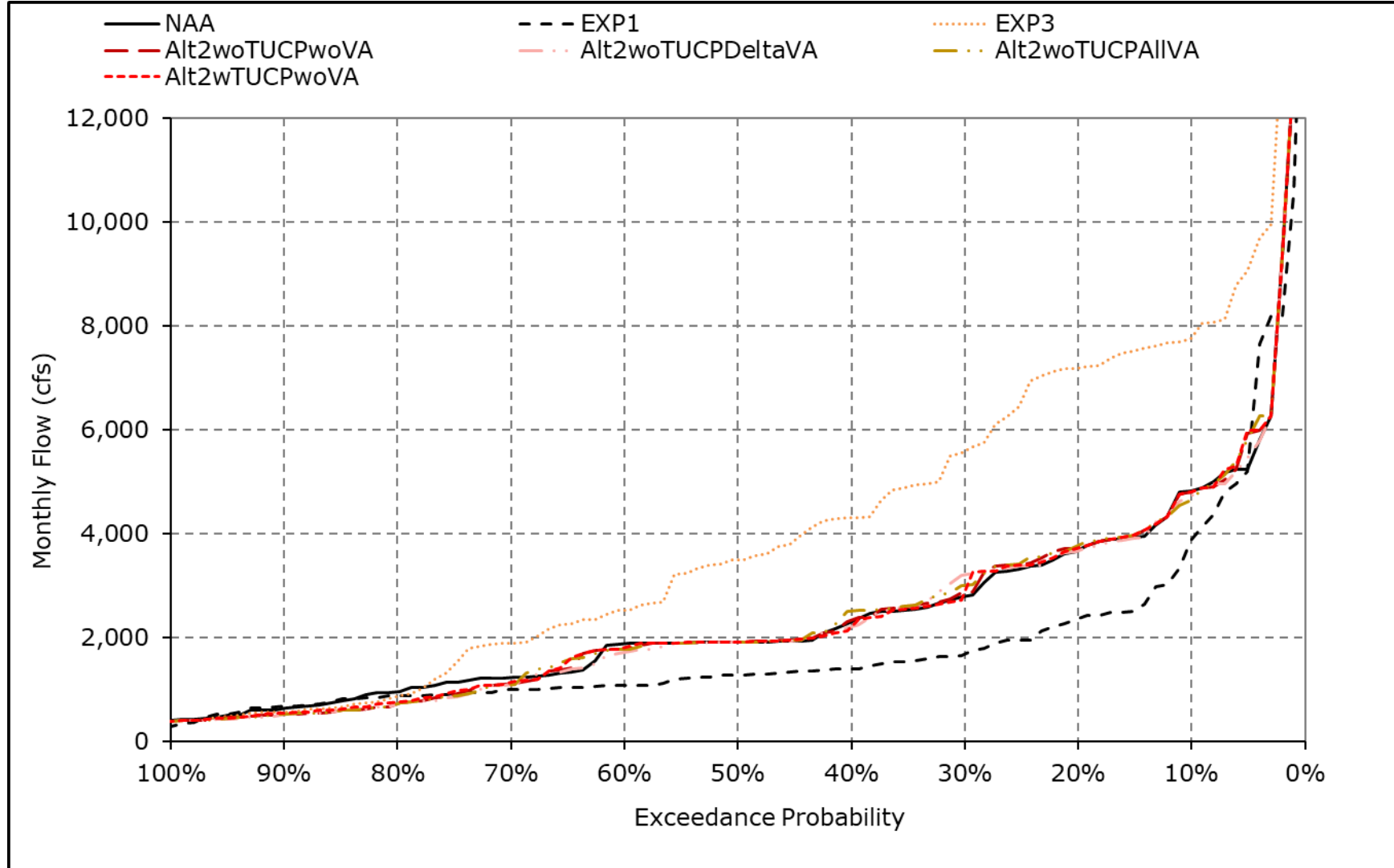
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-7. American River at H Street, October



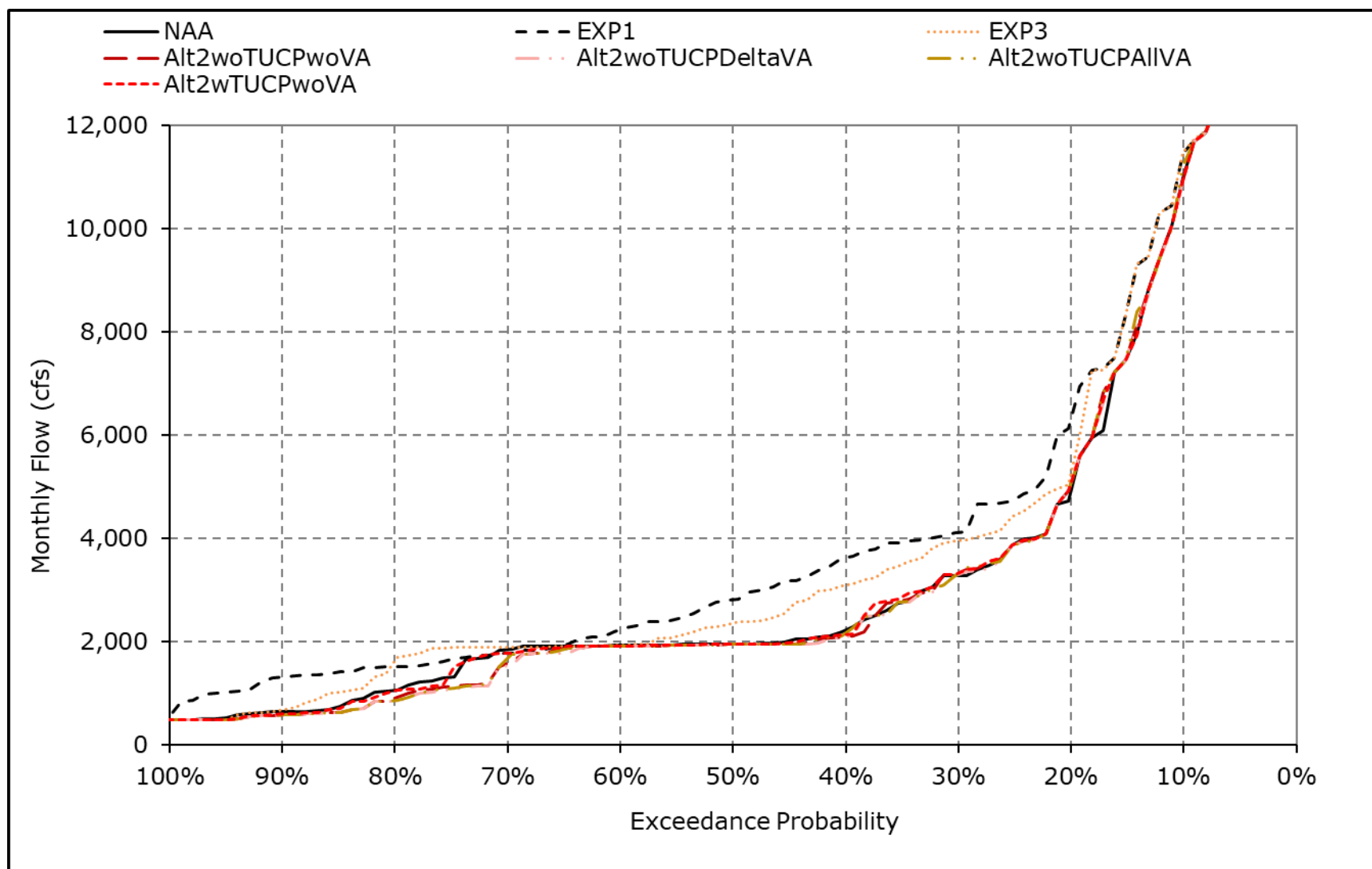
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-8. American River at H Street, November



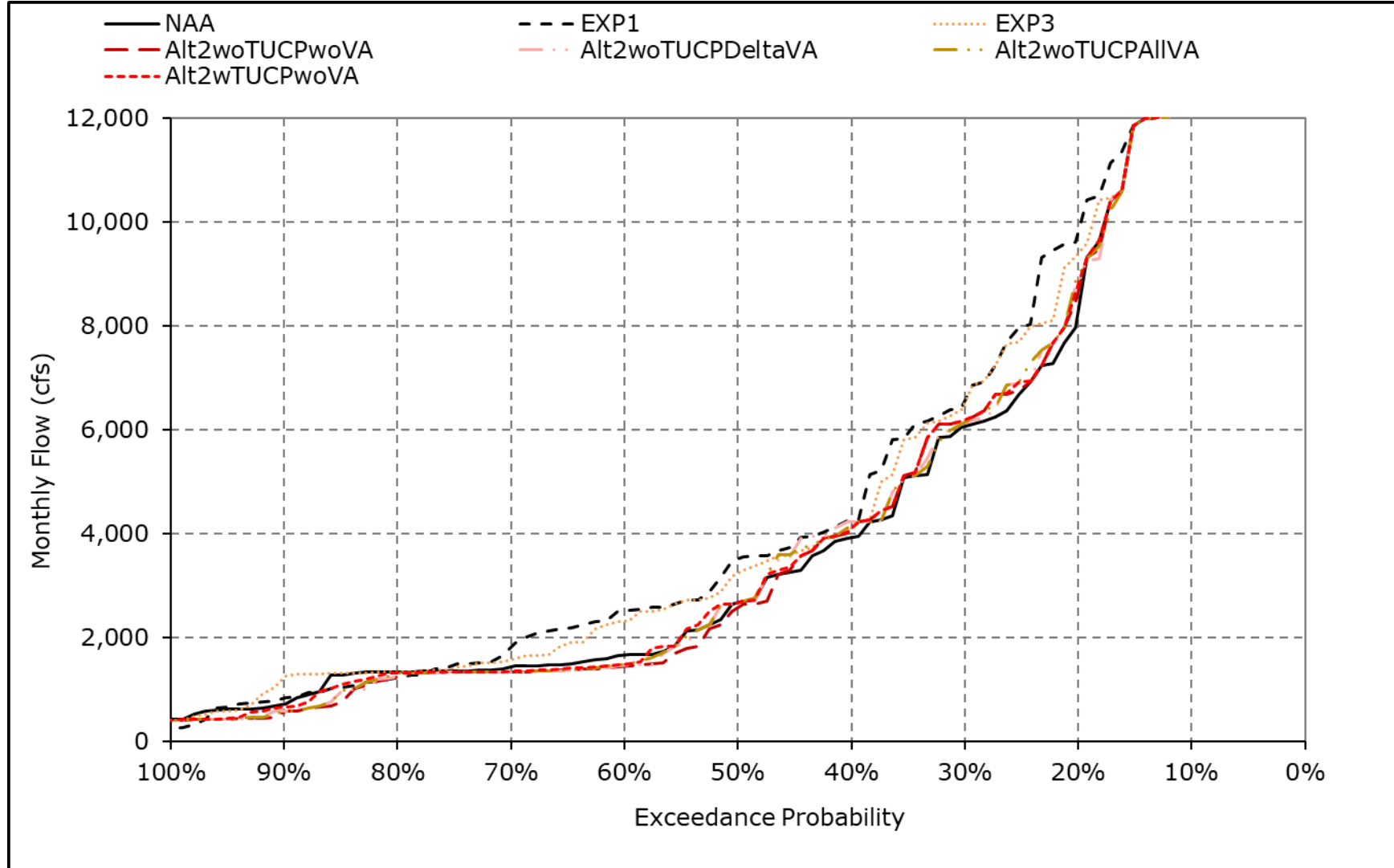
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-9. American River at H Street, December



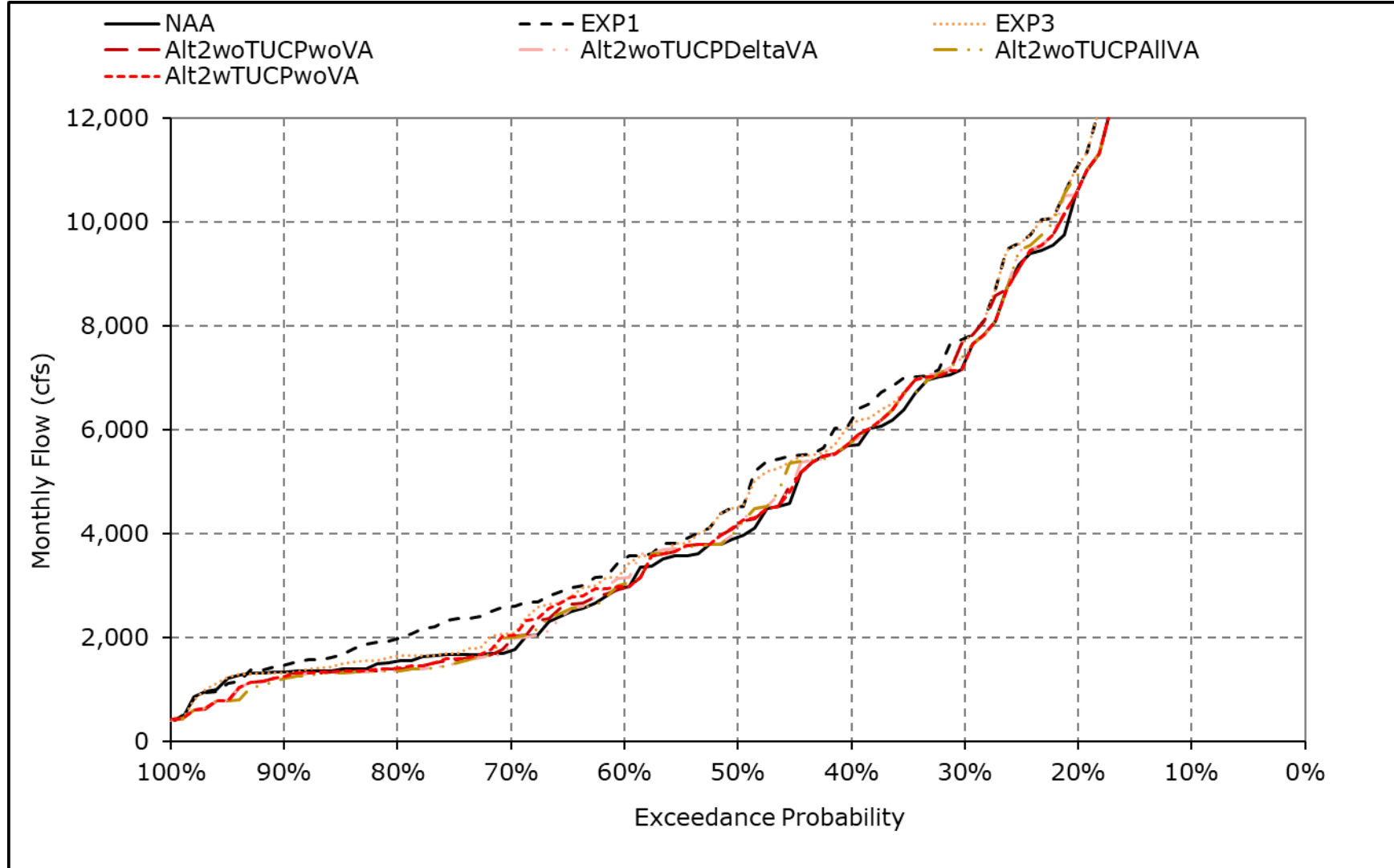
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-10. American River at H Street, January



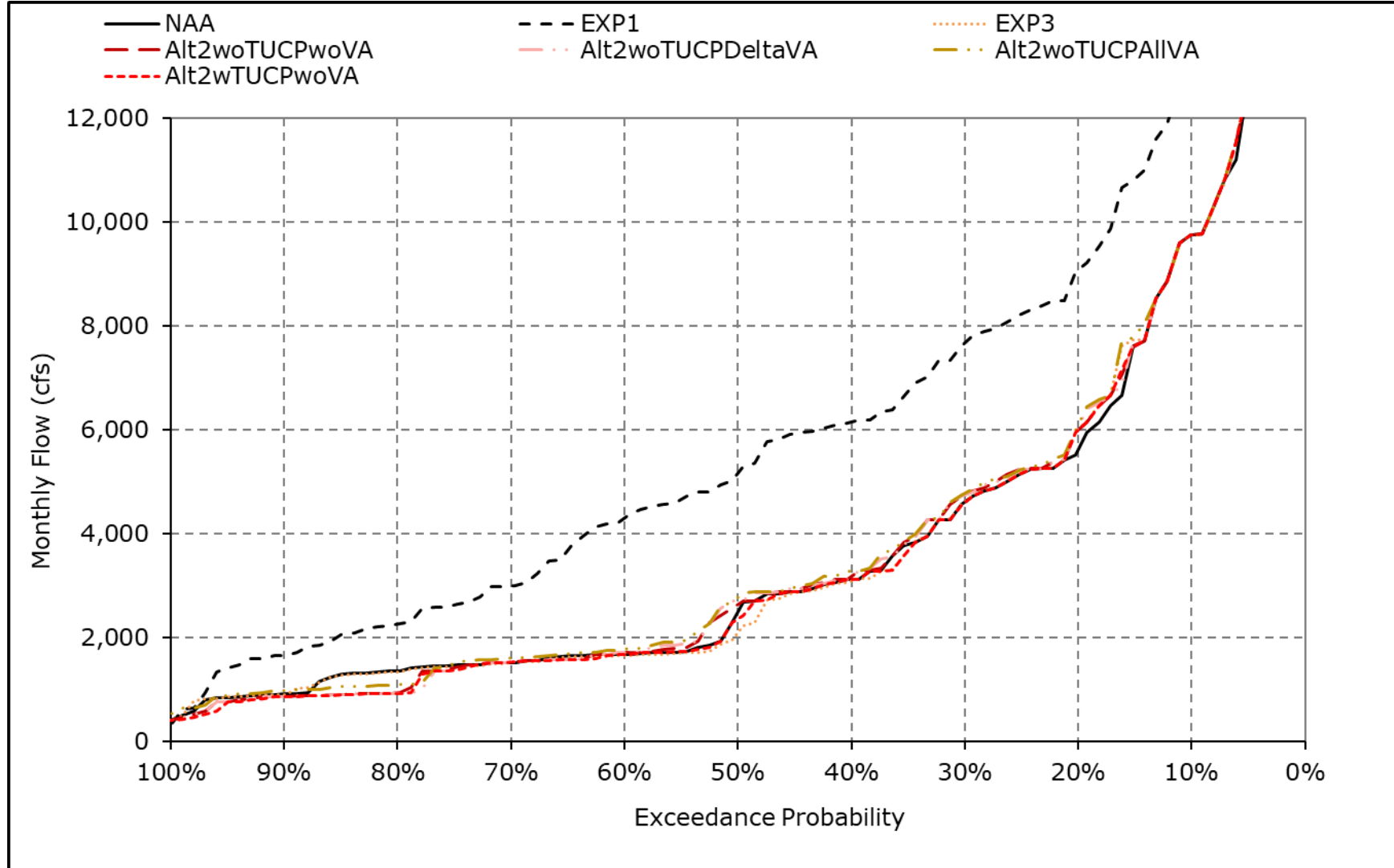
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-11. American River at H Street, February



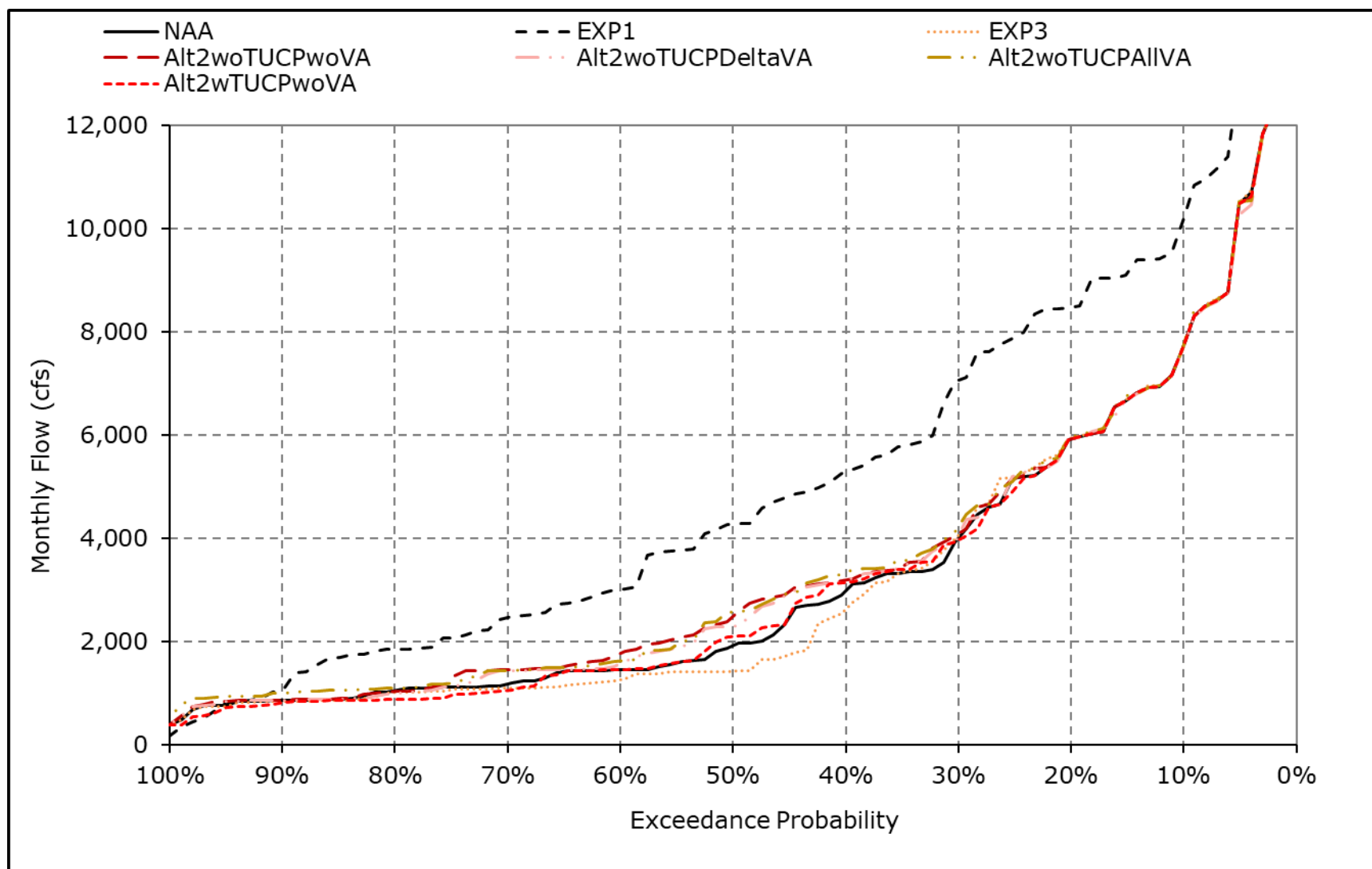
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-12. American River at H Street, March



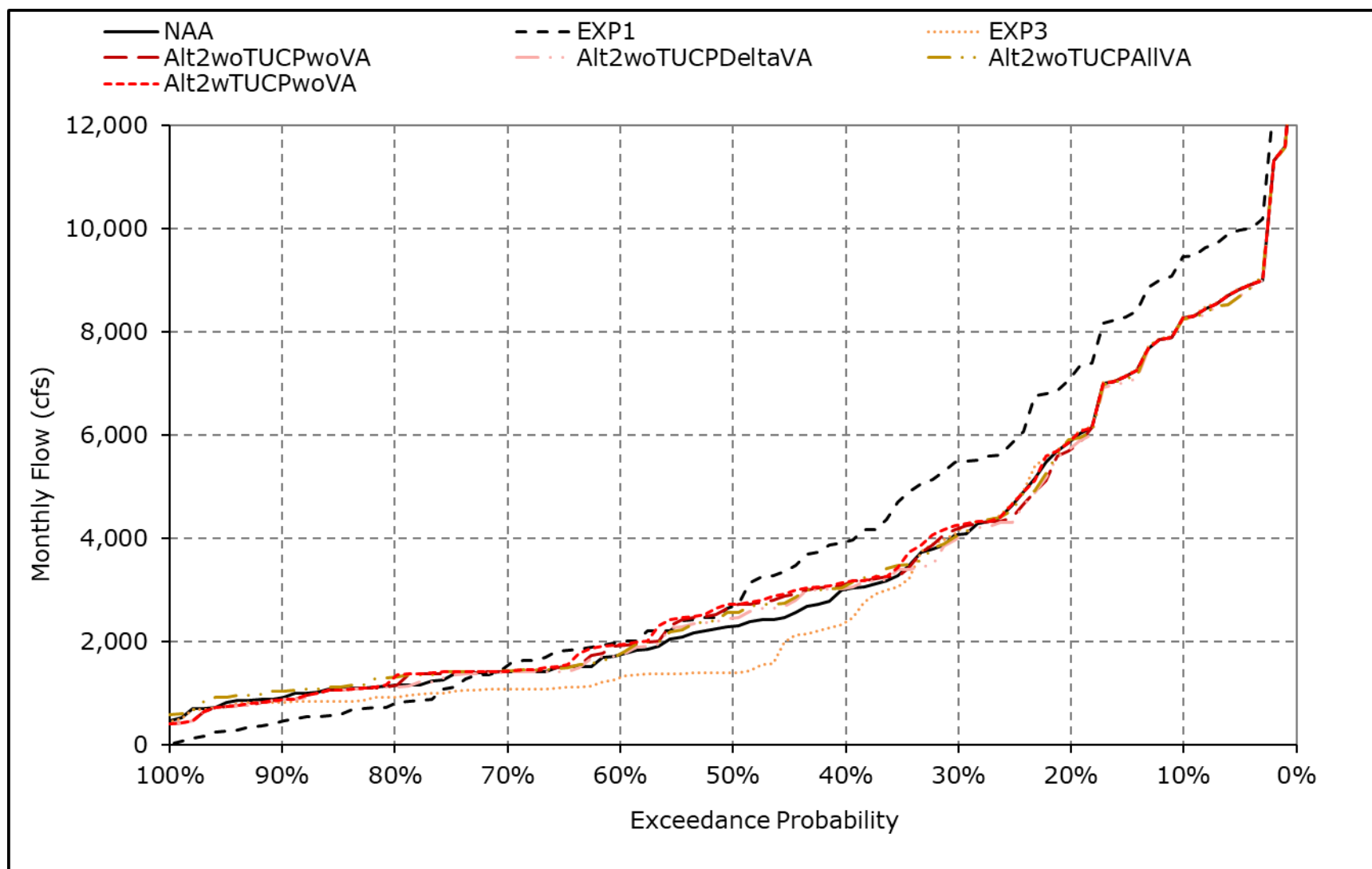
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-13. American River at H Street, April



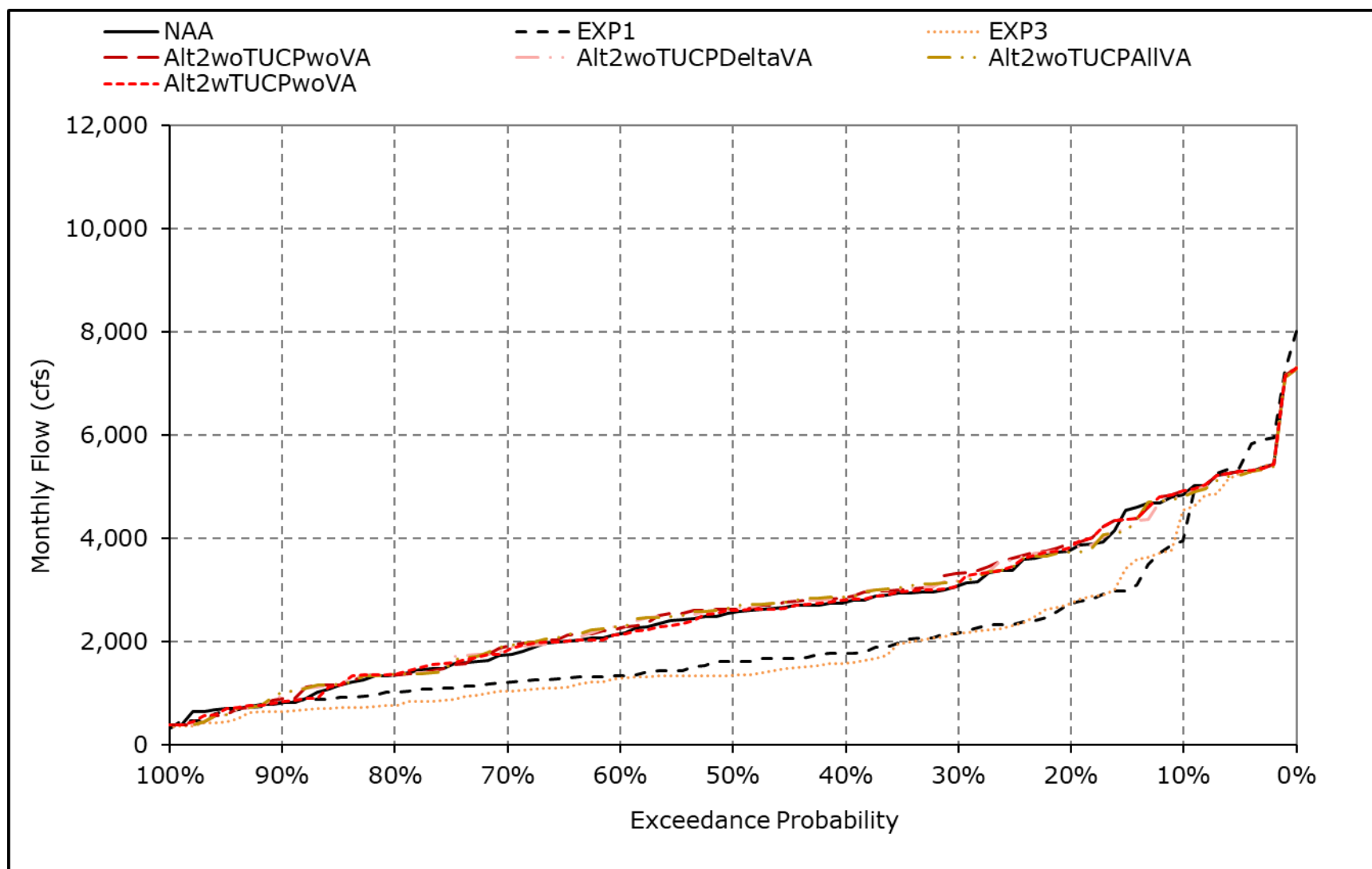
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-14. American River at H Street, May



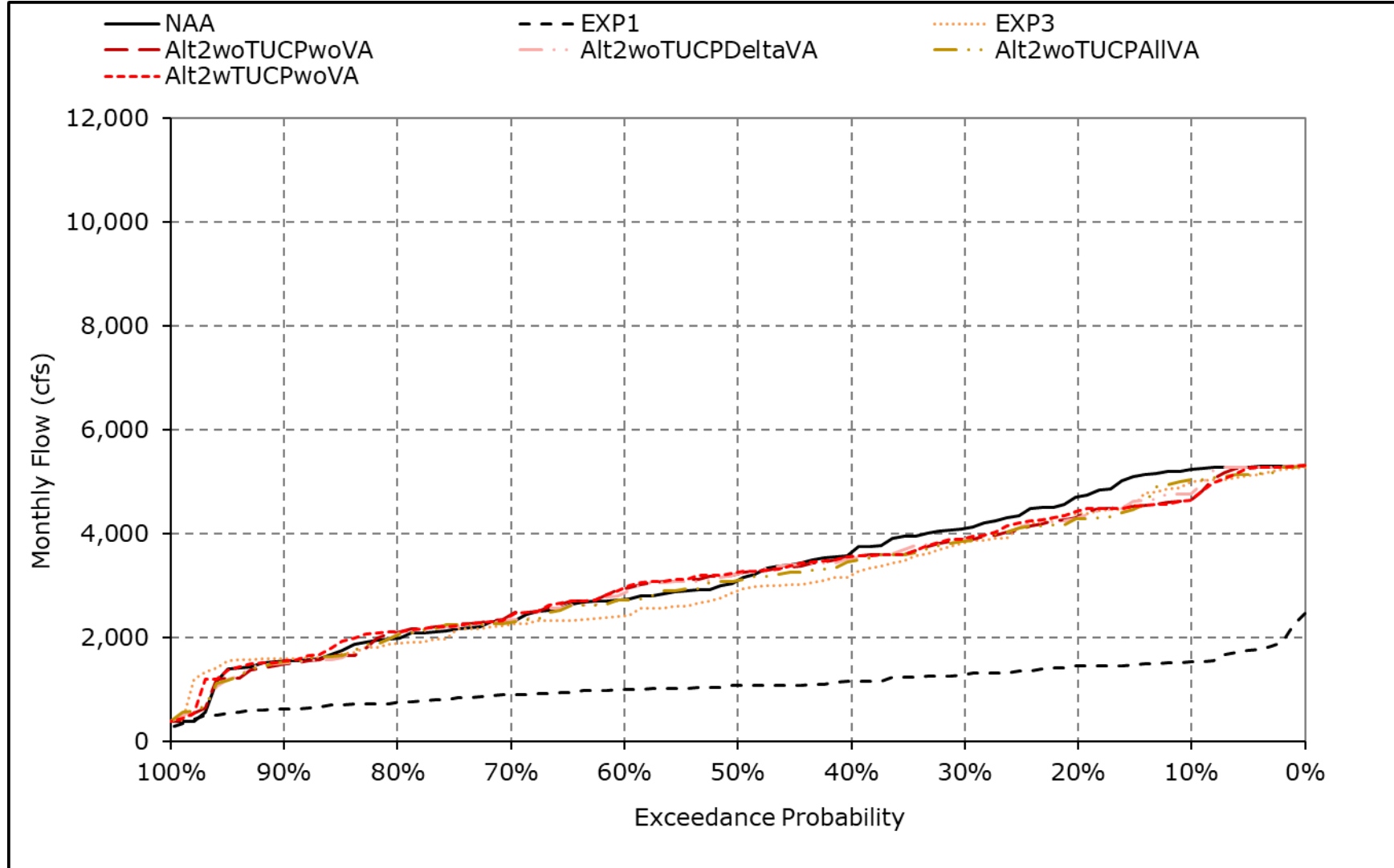
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-15. American River at H Street, June



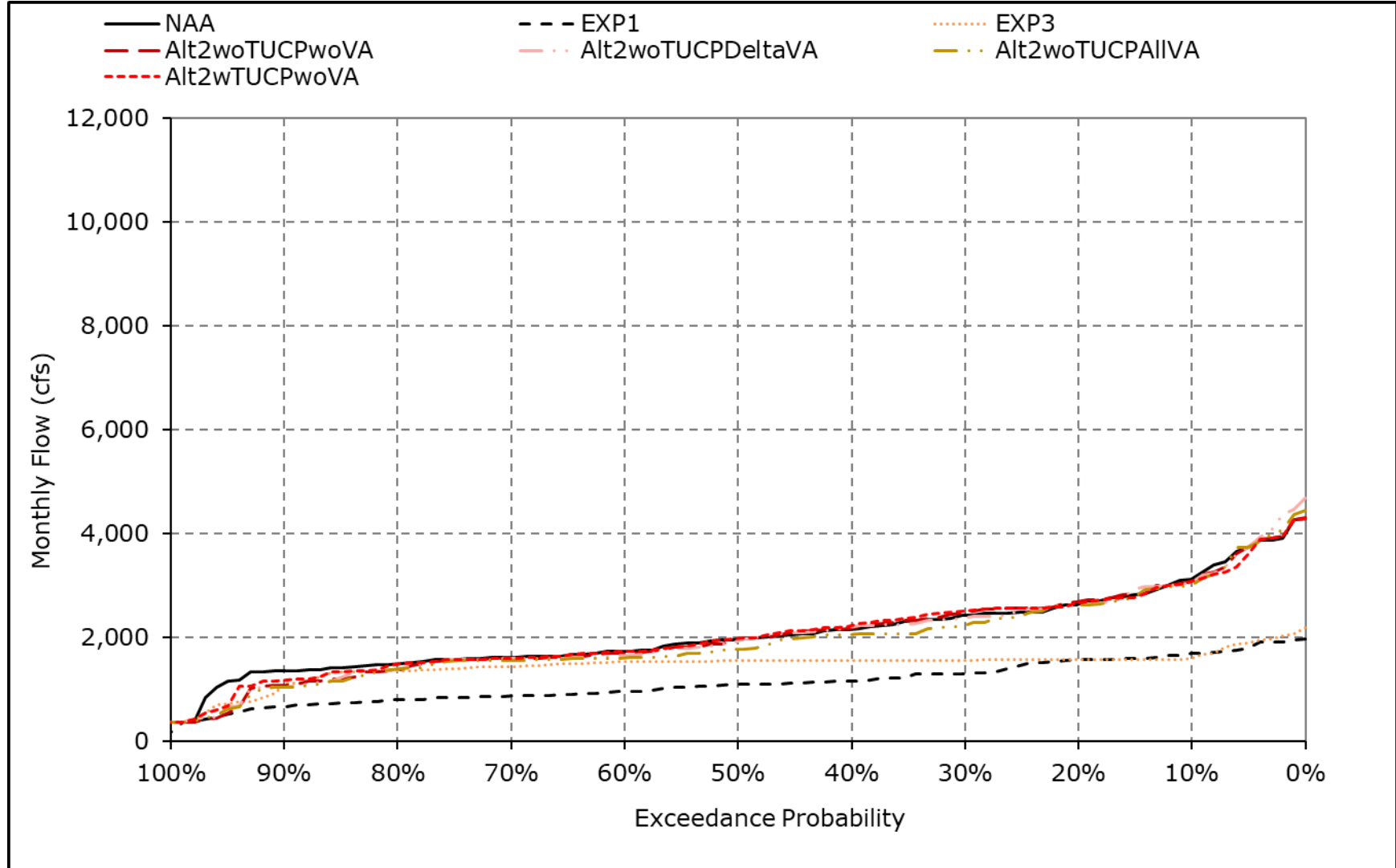
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-16. American River at H Street, July



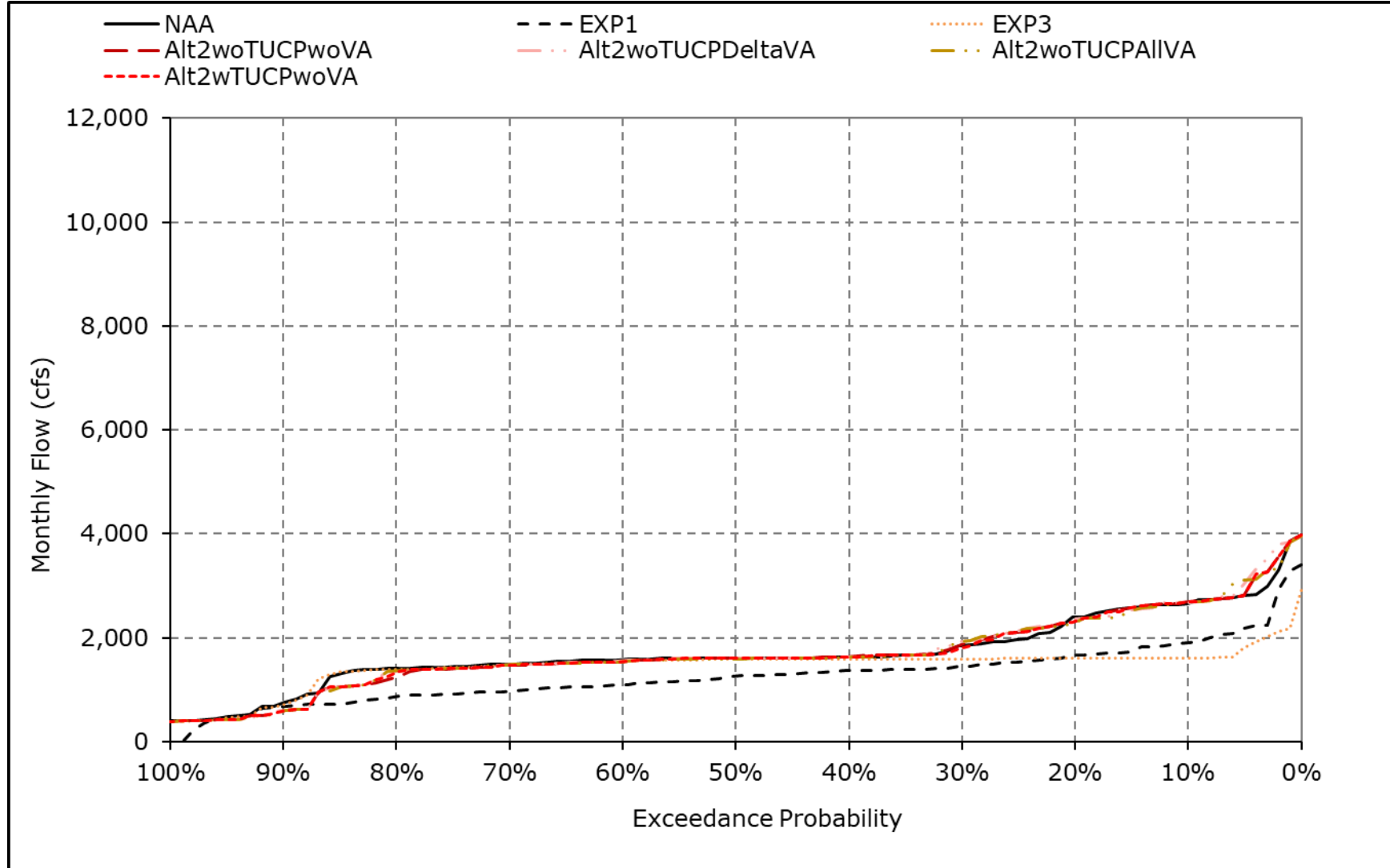
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-17. American River at H Street, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-13-18. American River at H Street, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-14-1a. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average ^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-1b. Sacramento River Flow at Freeport, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,555	19,159	55,558	67,331	73,616	68,539	47,145	29,611	16,154	22,852	18,880	21,294
20% Exceedance	13,965	15,029	37,148	57,249	64,124	57,440	35,095	22,862	14,436	21,699	17,766	19,115
30% Exceedance	13,310	13,910	25,889	37,332	51,026	43,368	25,482	17,540	13,617	20,891	17,273	16,760
40% Exceedance	12,388	13,291	19,600	29,473	44,313	31,276	20,244	14,463	13,360	19,287	16,787	15,179
50% Exceedance	10,815	12,468	16,136	24,987	31,331	24,808	15,809	12,543	12,923	18,190	15,819	11,709
60% Exceedance	9,259	11,206	14,066	19,778	23,413	21,958	13,613	12,046	12,814	16,697	12,821	10,696
70% Exceedance	7,898	9,966	12,225	15,712	19,698	18,904	11,909	11,402	12,256	15,015	10,217	9,909
80% Exceedance	6,672	8,470	10,444	12,918	16,984	14,978	11,456	10,486	11,477	12,116	8,955	9,303
90% Exceedance	6,074	7,113	9,005	10,909	13,086	11,117	10,022	9,018	9,856	10,178	7,887	8,231
Full Simulation Period Average ^a	11,039	13,648	24,145	31,996	38,378	33,475	23,284	16,686	13,463	17,298	13,912	13,782
Wet Water Years (28%)	14,435	17,475	26,936	54,993	62,781	54,853	41,475	25,182	15,861	19,470	17,234	19,188
Above Normal Water Years (14%)	13,752	15,037	23,194	42,526	50,699	45,603	24,667	17,650	14,356	21,817	18,455	18,494
Below Normal Water Years (18%)	10,162	12,639	28,470	25,779	27,113	25,604	17,650	15,400	13,396	19,716	15,175	11,567
Dry Water Years (24%)	9,234	12,664	24,469	16,102	25,879	20,902	14,381	12,679	12,962	15,242	10,511	10,083
Critical Water Years (16%)	5,928	7,902	14,178	13,375	16,316	13,164	9,933	8,434	9,312	9,909	7,804	8,240

Table F.2.2-14-1c. Sacramento River Flow at Freeport, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10	2	433	837	190	247	-32	-11	57	-920	-35	861
20% Exceedance	182	351	-163	-108	-5	7	75	6	13	-903	-346	-314
30% Exceedance	150	327	-294	-644	-168	110	129	451	-428	-497	-206	168
40% Exceedance	205	-24	-40	-261	937	158	45	-246	-272	-281	-164	-52
50% Exceedance	-240	15	-488	424	178	353	15	-76	-492	101	-4	-63
60% Exceedance	-176	-389	45	-158	-191	176	-54	-79	-27	-241	-276	217
70% Exceedance	-19	92	-59	1,611	-98	-27	3	-111	139	-443	-749	-157
80% Exceedance	-217	60	-356	168	-502	265	558	13	194	-1,362	-518	29
90% Exceedance	-54	-55	-349	-10	-369	48	1,801	1,345	1,453	2,106	-367	-288
Full Simulation Period Average ^a	-64	118	44	131	87	66	456	55	88	-341	-256	92
Wet Water Years (28%)	-16	41	-97	151	22	1	-5	92	173	-385	-233	15
Above Normal Water Years (14%)	351	8	-58	314	-40	-525	-78	59	58	-784	-214	721
Below Normal Water Years (18%)	-405	399	204	-65	351	167	59	-416	89	-632	-258	-51
Dry Water Years (24%)	-42	-1	205	163	90	-34	111	123	-542	-787	-411	-24
Critical Water Years (16%)	-196	229	-42	109	13	735	2,692	417	908	1,122	-97	10

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-2a. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average ^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-2b. Sacramento River Flow at Freeport, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,635	19,120	55,303	67,325	73,868	68,665	47,181	29,571	15,542	22,910	18,514	21,294
20% Exceedance	13,987	14,741	37,152	57,158	64,122	57,483	35,035	22,863	14,318	21,831	17,756	18,799
30% Exceedance	13,300	14,148	25,861	37,272	51,316	43,683	25,587	17,356	13,554	21,033	17,345	17,052
40% Exceedance	12,462	13,428	19,599	29,369	43,714	31,279	20,075	14,394	13,367	19,174	16,878	15,261
50% Exceedance	10,925	13,074	16,138	24,891	31,319	24,494	15,895	12,491	12,952	17,982	15,510	11,891
60% Exceedance	9,287	11,830	14,071	19,771	23,423	21,370	13,610	12,001	12,649	16,228	13,865	10,397
70% Exceedance	7,876	9,857	11,857	14,846	19,692	18,994	11,854	11,233	12,105	15,162	11,014	9,890
80% Exceedance	6,693	8,480	10,486	12,838	16,991	14,985	11,197	10,399	11,288	12,856	9,482	9,243
90% Exceedance	6,077	7,167	9,299	10,928	13,096	11,131	9,946	9,010	9,866	10,627	8,220	8,345
Full Simulation Period Average ^a	11,072	13,681	24,066	31,910	38,304	33,445	23,170	16,589	13,393	17,486	14,200	13,852
Wet Water Years (28%)	14,439	17,640	26,777	54,881	62,772	54,843	41,476	25,093	15,836	19,487	17,231	19,300
Above Normal Water Years (14%)	13,751	15,225	23,182	42,603	50,728	45,572	24,565	17,555	14,135	22,012	18,375	18,783
Below Normal Water Years (18%)	10,403	12,715	28,492	25,670	26,890	25,574	17,394	15,231	13,361	19,574	15,795	11,625
Dry Water Years (24%)	9,206	12,549	24,449	15,943	25,961	20,863	14,195	12,555	12,851	15,615	11,164	10,010
Critical Water Years (16%)	5,898	7,717	13,969	13,327	15,970	13,117	9,873	8,441	9,318	10,482	8,001	8,270

Table F.2.2-14-2c. Sacramento River Flow at Freeport, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	89	-37	178	830	442	374	4	-50	-555	-861	-402	861
20% Exceedance	205	62	-159	-199	-7	51	15	8	-104	-771	-355	-630
30% Exceedance	140	565	-323	-705	122	425	234	266	-491	-355	-135	460
40% Exceedance	279	113	-42	-365	338	160	-124	-315	-264	-394	-72	30
50% Exceedance	-130	621	-486	327	166	39	101	-128	-463	-106	-313	119
60% Exceedance	-147	235	50	-165	-182	-412	-57	-124	-192	-709	768	-82
70% Exceedance	-41	-16	-428	744	-103	63	-52	-279	-11	-295	48	-175
80% Exceedance	-196	70	-314	87	-496	273	298	-74	6	-622	9	-31
90% Exceedance	-51	0	-55	10	-359	62	1,724	1,337	1,462	2,555	-34	-174
Full Simulation Period Average ^a	-31	151	-35	45	13	37	342	-42	18	-153	32	161
Wet Water Years (28%)	-12	206	-256	39	12	-8	-4	3	149	-368	-236	127
Above Normal Water Years (14%)	350	196	-70	392	-11	-556	-179	-36	-164	-589	-295	1,010
Below Normal Water Years (18%)	-163	475	225	-174	127	137	-197	-585	54	-774	362	8
Dry Water Years (24%)	-70	-116	184	4	172	-73	-75	-1	-653	-414	242	-97
Critical Water Years (16%)	-226	45	-251	61	-332	688	2,632	424	914	1,694	100	40

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-3a. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average ^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-3b. Sacramento River Flow at Freeport, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,548	19,137	55,609	67,858	73,868	68,734	47,626	29,587	15,053	23,250	18,642	21,314
20% Exceedance	13,957	14,827	37,756	57,409	64,190	57,494	36,829	23,146	14,008	21,875	17,873	18,945
30% Exceedance	13,236	14,313	25,960	37,352	51,320	43,507	27,170	17,463	13,513	20,979	17,212	16,961
40% Exceedance	12,490	13,460	19,614	29,466	43,521	31,280	21,473	15,414	13,040	19,255	16,903	15,963
50% Exceedance	11,064	13,098	16,121	25,207	30,974	24,594	17,461	13,619	12,875	18,064	15,485	11,975
60% Exceedance	9,335	11,715	14,045	19,734	23,389	21,519	14,740	12,340	12,574	16,489	13,817	10,915
70% Exceedance	7,959	9,879	11,963	14,736	19,680	19,031	13,371	11,789	11,818	14,823	10,953	9,905
80% Exceedance	6,716	8,615	10,520	12,846	16,991	14,943	11,767	10,841	11,211	12,684	9,618	9,253
90% Exceedance	6,075	7,139	8,997	10,892	13,375	11,275	10,884	9,657	9,583	10,763	8,114	8,465
Full Simulation Period Average ^a	11,147	13,783	24,148	31,950	38,407	33,494	24,303	17,240	13,226	17,507	14,211	13,882
Wet Water Years (28%)	14,411	17,634	26,780	54,992	62,946	54,780	41,708	25,225	15,798	19,533	17,260	19,270
Above Normal Water Years (14%)	13,734	15,316	23,271	42,845	50,887	45,527	26,396	18,908	13,834	22,094	18,284	18,697
Below Normal Water Years (18%)	10,655	12,748	28,563	25,702	26,955	25,607	19,744	16,343	12,966	19,645	15,771	11,937
Dry Water Years (24%)	9,313	12,923	24,676	15,943	26,050	21,054	15,556	13,155	12,718	15,530	11,226	10,017
Critical Water Years (16%)	5,991	7,679	13,968	13,130	15,963	13,249	10,264	8,942	9,247	10,510	8,035	8,226

Table F.2.2-14-3c. Sacramento River Flow at Freeport, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3	-21	483	1,363	442	443	450	-34	-1,044	-521	-273	881
20% Exceedance	175	149	444	52	62	62	1,808	290	-414	-728	-239	-484
30% Exceedance	75	730	-223	-625	126	248	1,817	374	-532	-409	-267	369
40% Exceedance	307	144	-26	-268	146	162	1,274	705	-592	-313	-47	732
50% Exceedance	9	645	-502	643	-179	139	1,667	1,000	-541	-25	-338	204
60% Exceedance	-100	120	23	-202	-215	-263	1,074	215	-267	-449	719	436
70% Exceedance	42	5	-322	635	-115	100	1,465	276	-298	-634	-13	-161
80% Exceedance	-173	205	-280	96	-496	231	868	367	-71	-794	145	-22
90% Exceedance	-53	-29	-357	-27	-81	205	2,663	1,983	1,179	2,691	-140	-54
Full Simulation Period Average ^a	43	253	46	84	116	86	1,475	608	-149	-132	44	192
Wet Water Years (28%)	-40	200	-253	150	187	-72	228	134	111	-322	-206	97
Above Normal Water Years (14%)	333	287	19	633	148	-601	1,652	1,317	-464	-507	-385	923
Below Normal Water Years (18%)	88	508	296	-142	193	169	2,153	527	-341	-703	339	319
Dry Water Years (24%)	37	258	411	4	262	118	1,286	599	-787	-500	304	-90
Critical Water Years (16%)	-133	6	-252	-136	-339	820	3,023	925	843	1,723	134	-4

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-4a. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average ^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-4b. Sacramento River Flow at Freeport, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,555	19,173	55,571	67,259	73,616	68,482	47,211	29,612	16,154	22,849	18,878	21,293
20% Exceedance	13,965	14,948	37,147	57,540	64,124	57,440	35,102	22,863	14,435	21,699	17,855	19,115
30% Exceedance	13,314	13,929	25,895	37,235	51,175	43,701	25,499	17,541	13,617	20,879	17,262	16,760
40% Exceedance	12,346	13,292	19,601	29,982	43,785	31,183	20,178	14,650	13,364	19,283	16,791	15,216
50% Exceedance	10,910	12,475	16,852	25,049	31,332	24,810	15,810	12,701	12,925	18,332	15,848	11,837
60% Exceedance	9,462	11,208	14,082	19,789	23,414	21,964	13,616	12,123	12,816	16,749	13,031	10,924
70% Exceedance	8,008	9,981	12,232	15,643	19,699	18,905	11,909	11,426	12,247	15,146	10,485	10,087
80% Exceedance	6,673	8,476	10,546	13,006	17,214	14,746	11,135	10,486	11,207	12,420	9,061	9,238
90% Exceedance	6,081	7,168	9,376	11,639	13,090	10,734	8,739	8,208	9,195	8,195	7,553	8,472
Full Simulation Period Average ^a	11,105	13,683	24,210	32,148	38,355	33,374	22,933	16,694	13,294	17,105	14,012	13,829
Wet Water Years (28%)	14,438	17,475	26,948	55,011	62,782	54,858	41,484	25,185	15,861	19,458	17,235	19,186
Above Normal Water Years (14%)	13,749	15,043	23,202	42,660	50,749	46,044	24,720	17,661	14,359	21,809	18,518	18,518
Below Normal Water Years (18%)	10,353	12,658	28,486	25,888	27,232	25,630	17,712	15,508	13,347	19,783	15,736	11,762
Dry Water Years (24%)	9,236	12,674	24,472	16,092	25,918	20,897	14,386	12,690	12,962	15,282	10,549	10,089
Critical Water Years (16%)	6,130	8,090	14,558	14,064	15,934	12,117	7,600	8,325	8,305	8,591	7,684	8,288

Table F.2.2-14-4c. Sacramento River Flow at Freeport, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	10	16	445	765	191	191	34	-10	57	-922	-38	860
20% Exceedance	183	269	-164	183	-4	8	82	7	13	-904	-257	-314
30% Exceedance	154	346	-289	-741	-19	442	146	452	-429	-509	-217	168
40% Exceedance	162	-24	-40	248	409	64	-21	-59	-267	-285	-159	-16
50% Exceedance	-145	23	228	486	179	355	15	82	-491	243	24	65
60% Exceedance	27	-387	60	-147	-190	183	-51	-2	-25	-188	-66	445
70% Exceedance	91	107	-53	1,542	-97	-26	3	-86	131	-312	-481	21
80% Exceedance	-216	65	-254	256	-272	34	236	13	-76	-1,058	-412	-36
90% Exceedance	-47	0	23	721	-365	-336	518	535	791	122	-701	-47
Full Simulation Period Average ^a	1	153	109	282	64	-34	105	62	-81	-535	-156	139
Wet Water Years (28%)	-13	40	-85	169	22	7	4	95	174	-398	-232	13
Above Normal Water Years (14%)	348	14	-50	448	10	-84	-24	70	61	-792	-152	745
Below Normal Water Years (18%)	-213	417	220	44	469	193	121	-308	40	-565	304	145
Dry Water Years (24%)	-40	8	207	153	130	-39	116	134	-542	-747	-373	-19
Critical Water Years (16%)	6	417	338	798	-368	-311	359	308	-99	-196	-217	58

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-5a. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-5b. Sacramento River Flow at Freeport, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,978	20,067	62,439	70,454	74,793	69,622	49,155	29,212	14,441	10,316	8,187	10,652
20% Exceedance	9,089	15,569	53,086	59,955	66,579	59,110	37,996	23,314	11,076	9,836	7,626	10,000
30% Exceedance	8,442	13,438	43,202	43,000	56,518	46,514	26,686	15,795	8,452	9,400	7,198	9,710
40% Exceedance	7,946	11,959	31,575	34,173	48,942	36,661	19,834	11,645	7,706	9,043	7,027	9,539
50% Exceedance	7,815	11,027	25,908	29,354	31,740	29,237	14,477	10,614	7,253	8,787	6,887	9,343
60% Exceedance	7,659	10,491	21,883	22,318	25,643	24,043	10,808	9,998	6,651	8,608	6,716	9,187
70% Exceedance	7,273	9,531	16,581	16,591	21,558	20,346	9,435	8,601	6,171	8,068	6,607	9,100
80% Exceedance	6,498	8,240	11,227	12,726	16,690	13,741	8,419	7,816	5,928	7,685	6,486	8,749
90% Exceedance	6,030	6,865	8,661	11,074	12,596	11,031	7,057	7,363	5,539	7,044	6,348	8,113
Full Simulation Period Average^a	8,334	13,463	31,465	34,017	40,095	35,190	22,504	15,398	9,096	8,772	7,066	9,486
Wet Water Years (28%)	8,871	17,027	38,915	57,438	63,300	54,800	41,616	24,792	13,324	9,000	7,666	10,274
Above Normal Water Years (14%)	8,660	13,475	33,874	45,689	54,631	48,078	24,976	16,668	9,669	9,782	7,338	9,715
Below Normal Water Years (18%)	8,376	12,224	34,965	29,124	30,074	29,128	17,523	13,407	7,901	9,189	6,933	9,724
Dry Water Years (24%)	8,917	13,881	28,835	17,259	28,328	24,569	12,853	10,173	6,677	8,520	6,677	9,222
Critical Water Years (16%)	6,021	7,616	15,161	13,459	15,689	12,343	6,976	7,924	6,169	7,395	6,509	8,033

Table F.2.2-14-5c. Sacramento River Flow at Freeport, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-5,567	910	7,314	3,960	1,368	1,331	1,978	-410	-1,657	-13,455	-10,728	-9,781
20% Exceedance	-4,693	891	15,774	2,598	2,451	1,678	2,975	458	-3,347	-12,766	-10,486	-9,429
30% Exceedance	-4,718	-145	17,019	5,023	5,325	3,255	1,333	-1,294	-5,594	-11,988	-10,282	-6,882
40% Exceedance	-4,237	-1,357	11,934	4,438	5,567	5,543	-365	-3,064	-5,925	-10,525	-9,923	-5,693
50% Exceedance	-3,241	-1,426	9,284	4,790	587	4,781	-1,317	-2,005	-6,163	-9,302	-8,937	-2,429
60% Exceedance	-1,775	-1,104	7,861	2,382	2,039	2,261	-2,858	-2,127	-6,190	-8,330	-6,381	-1,292
70% Exceedance	-644	-342	4,297	2,489	1,763	1,415	-2,471	-2,912	-5,945	-7,389	-4,359	-966
80% Exceedance	-391	-170	427	-24	-796	-971	-2,480	-2,657	-5,355	-5,793	-2,987	-525
90% Exceedance	-97	-303	-693	155	-859	-38	-1,164	-310	-2,865	-1,029	-1,906	-406
Full Simulation Period Average^a	-2,770	-67	7,364	2,152	1,804	1,781	-324	-1,233	-4,279	-8,868	-7,102	-4,205
Wet Water Years (28%)	-5,580	-407	11,882	2,595	541	-51	136	-298	-2,363	-10,855	-9,800	-8,899
Above Normal Water Years (14%)	-4,742	-1,554	10,622	3,477	3,892	1,950	232	-923	-4,629	-12,819	-11,332	-8,058
Below Normal Water Years (18%)	-2,191	-17	6,698	3,280	3,312	3,691	-68	-2,410	-5,405	-11,159	-8,500	-1,894
Dry Water Years (24%)	-359	1,215	4,570	1,320	2,539	3,633	-1,417	-2,383	-6,827	-7,509	-4,244	-885
Critical Water Years (16%)	-103	-56	941	193	-613	-86	-265	-93	-2,235	-1,392	-1,392	-197

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-6a. Sacramento River Flow at Freeport, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11,967	23,041	59,064	70,174	74,317	71,601	63,938	38,894	17,281	4,026	4,966	10,402
20% Exceedance	9,646	16,103	50,161	61,146	66,469	64,000	54,027	31,096	11,158	3,197	4,006	9,266
30% Exceedance	8,168	12,714	33,586	48,769	58,481	54,942	41,532	21,795	7,574	2,959	3,443	8,605
40% Exceedance	7,077	9,406	27,062	37,666	51,432	45,961	33,596	15,431	5,925	2,742	3,140	8,100
50% Exceedance	5,974	7,935	22,018	32,993	39,441	39,613	25,755	12,987	4,928	2,603	2,963	6,433
60% Exceedance	5,028	7,201	16,155	24,531	31,902	32,424	20,929	10,189	3,887	2,372	2,691	5,415
70% Exceedance	4,206	6,024	12,246	16,893	27,753	29,507	16,598	8,962	3,065	2,183	2,483	5,129
80% Exceedance	3,261	4,767	9,704	13,779	21,229	20,936	14,784	6,423	2,424	2,024	2,365	4,657
90% Exceedance	2,484	3,447	7,298	11,216	14,841	15,015	10,501	3,829	1,799	1,733	2,121	4,175
Full Simulation Period Average ^a	7,111	11,956	27,874	36,230	43,365	41,843	32,234	18,132	7,310	2,876	3,238	7,118
Wet Water Years (28%)	8,625	14,812	28,818	58,721	65,114	60,607	53,195	31,912	13,528	3,958	4,358	9,886
Above Normal Water Years (14%)	7,960	12,014	28,685	49,190	57,099	54,901	38,800	20,979	8,077	2,579	3,431	7,949
Below Normal Water Years (18%)	6,802	11,643	32,839	32,361	33,770	36,714	28,734	14,173	5,997	2,662	2,858	6,865
Dry Water Years (24%)	7,802	12,987	27,484	19,820	32,731	31,983	21,371	11,341	3,862	2,512	2,619	5,581
Critical Water Years (16%)	2,704	5,290	19,965	14,499	20,036	18,140	10,038	6,164	2,407	2,027	2,462	4,136

Table F.2.2-14-6b. Sacramento River Flow at Freeport, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,555	19,159	55,558	67,331	73,616	68,539	47,145	29,611	16,154	22,852	18,880	21,294
20% Exceedance	13,965	15,029	37,148	57,249	64,124	57,440	35,095	22,862	14,436	21,699	17,766	19,115
30% Exceedance	13,310	13,910	25,889	37,332	51,026	43,368	25,482	17,540	13,617	20,891	17,273	16,760
40% Exceedance	12,388	13,291	19,600	29,473	44,313	31,276	20,244	14,463	13,360	19,287	16,787	15,179
50% Exceedance	10,815	12,468	16,136	24,987	31,331	24,808	15,809	12,543	12,923	18,190	15,819	11,709
60% Exceedance	9,259	11,206	14,066	19,778	23,413	21,958	13,613	12,046	12,814	16,697	12,821	10,696
70% Exceedance	7,898	9,966	12,225	15,712	19,698	18,904	11,909	11,402	12,256	15,015	10,217	9,909
80% Exceedance	6,672	8,470	10,444	12,918	16,984	14,978	11,456	10,486	11,477	12,116	8,955	9,303
90% Exceedance	6,074	7,113	9,005	10,909	13,086	11,117	10,022	9,018	9,856	10,178	7,887	8,231
Full Simulation Period Average ^a	11,039	13,648	24,145	31,996	38,378	33,475	23,284	16,686	13,463	17,298	13,912	13,782
Wet Water Years (28%)	14,435	17,475	26,936	54,993	62,781	54,853	41,475	25,182	15,861	19,470	17,234	19,188
Above Normal Water Years (14%)	13,752	15,037	23,194	42,526	50,699	45,603	24,667	17,650	14,356	21,817	18,455	18,494
Below Normal Water Years (18%)	10,162	12,639	28,470	25,779	27,113	25,604	17,650	15,400	13,396	19,716	15,175	11,567
Dry Water Years (24%)	9,234	12,664	24,469	16,102	25,879	20,902	14,381	12,679	12,962	15,242	10,511	10,083
Critical Water Years (16%)	5,928	7,902	14,178	13,375	16,316	13,164	9,933	8,434	9,312	9,909	7,804	8,240

Table F.2.2-14-6c. Sacramento River Flow at Freeport, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,587	-3,882	-3,506	-2,843	-701	-3,063	-16,793	-9,283	-1,127	18,826	13,914	10,892
20% Exceedance	4,319	-1,073	-13,013	-3,897	-2,346	-6,561	-18,932	-8,234	3,277	18,502	13,761	9,849
30% Exceedance	5,143	1,195	-7,697	-11,436	-7,455	-11,573	-16,050	-4,255	6,044	17,932	13,830	8,155
40% Exceedance	5,311	3,886	-7,462	-8,193	-7,119	-14,684	-13,352	-968	7,435	16,544	13,647	7,079
50% Exceedance	4,842	4,532	-5,882	-8,006	-8,110	-14,805	-9,946	-444	7,995	15,587	12,856	5,275
60% Exceedance	4,230	4,006	-2,089	-4,753	-8,489	-10,465	-7,315	1,857	8,927	14,325	10,130	5,281
70% Exceedance	3,691	3,942	-21	-1,181	-8,055	-10,603	-4,689	2,440	9,191	12,831	7,734	4,780
80% Exceedance	3,411	3,703	741	-861	-4,245	-5,958	-3,328	4,063	9,053	10,092	6,590	4,646
90% Exceedance	3,590	3,666	1,707	-308	-1,755	-3,898	-479	5,189	8,057	8,445	5,766	4,056
Full Simulation Period Average ^a	3,928	1,693	-3,728	-4,234	-4,987	-8,368	-8,950	-1,445	6,153	14,423	10,674	6,664
Wet Water Years (28%)	5,810	2,663	-1,881	-3,727	-2,333	-5,754	-11,720	-6,730	2,332	15,512	12,875	9,302
Above Normal Water Years (14%)	5,792	3,023	-5,491	-6,664	-6,400	-9,297	-14,134	-3,329	6,279	19,237	15,024	10,545
Below Normal Water Years (18%)	3,360	995	-4,368	-6,582	-6,657	-11,110	-11,084	1,227	7,400	17,053	12,317	4,702
Dry Water Years (24%)	1,432	-323	-3,014	-3,718	-6,852	-11,081	-6,990	1,338	9,100	12,730	7,892	4,502
Critical Water Years (16%)	3,224	2,612	-5,787	-1,124	-3,720	-4,976	-106	2,270	6,904	7,882	5,343	4,104

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-7a. Sacramento River Flow at Freeport, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11,967	23,041	59,064	70,174	74,317	71,601	63,938	38,894	17,281	4,026	4,966	10,402
20% Exceedance	9,646	16,103	50,161	61,146	66,469	64,000	54,027	31,096	11,158	3,197	4,006	9,266
30% Exceedance	8,168	12,714	33,586	48,769	58,481	54,942	41,532	21,795	7,574	2,959	3,443	8,605
40% Exceedance	7,077	9,406	27,062	37,666	51,432	45,961	33,596	15,431	5,925	2,742	3,140	8,100
50% Exceedance	5,974	7,935	22,018	32,993	39,441	39,613	25,755	12,987	4,928	2,603	2,963	6,433
60% Exceedance	5,028	7,201	16,155	24,531	31,902	32,424	20,929	10,189	3,887	2,372	2,691	5,415
70% Exceedance	4,206	6,024	12,246	16,893	27,753	29,507	16,598	8,962	3,065	2,183	2,483	5,129
80% Exceedance	3,261	4,767	9,704	13,779	21,229	20,936	14,784	6,423	2,424	2,024	2,365	4,657
90% Exceedance	2,484	3,447	7,298	11,216	14,841	15,015	10,501	3,829	1,799	1,733	2,121	4,175
Full Simulation Period Average ^a	7,111	11,956	27,874	36,230	43,365	41,843	32,234	18,132	7,310	2,876	3,238	7,118
Wet Water Years (28%)	8,625	14,812	28,818	58,721	65,114	60,607	53,195	31,912	13,528	3,958	4,358	9,886
Above Normal Water Years (14%)	7,960	12,014	28,685	49,190	57,099	54,901	38,800	20,979	8,077	2,579	3,431	7,949
Below Normal Water Years (18%)	6,802	11,643	32,839	32,361	33,770	36,714	28,734	14,173	5,997	2,662	2,858	6,865
Dry Water Years (24%)	7,802	12,987	27,484	19,820	32,731	31,983	21,371	11,341	3,862	2,512	2,619	5,581
Critical Water Years (16%)	2,704	5,290	19,965	14,499	20,036	18,140	10,038	6,164	2,407	2,027	2,462	4,136

Table F.2.2-14-7b. Sacramento River Flow at Freeport, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,635	19,120	55,303	67,325	73,868	68,665	47,181	29,571	15,542	22,910	18,514	21,294
20% Exceedance	13,987	14,741	37,152	57,158	64,122	57,483	35,035	22,863	14,318	21,831	17,756	18,799
30% Exceedance	13,300	14,148	25,861	37,272	51,316	43,683	25,587	17,356	13,554	21,033	17,345	17,052
40% Exceedance	12,462	13,428	19,599	29,369	43,714	31,279	20,075	14,394	13,367	19,174	16,878	15,261
50% Exceedance	10,925	13,074	16,138	24,891	31,319	24,494	15,895	12,491	12,952	17,982	15,510	11,891
60% Exceedance	9,287	11,830	14,071	19,771	23,423	21,370	13,610	12,001	12,649	16,228	13,865	10,397
70% Exceedance	7,876	9,857	11,857	14,846	19,692	18,994	11,854	11,233	12,105	15,162	11,014	9,890
80% Exceedance	6,693	8,480	10,486	12,838	16,991	14,985	11,197	10,399	11,288	12,856	9,482	9,243
90% Exceedance	6,077	7,167	9,299	10,928	13,096	11,131	9,946	9,010	9,866	10,627	8,220	8,345
Full Simulation Period Average ^a	11,072	13,681	24,066	31,910	38,304	33,445	23,170	16,589	13,393	17,486	14,200	13,852
Wet Water Years (28%)	14,439	17,640	26,777	54,881	62,772	54,843	41,476	25,093	15,836	19,487	17,231	19,300
Above Normal Water Years (14%)	13,751	15,225	23,182	42,603	50,728	45,572	24,565	17,555	14,135	22,012	18,375	18,783
Below Normal Water Years (18%)	10,403	12,715	28,492	25,670	26,890	25,574	17,394	15,231	13,361	19,574	15,795	11,625
Dry Water Years (24%)	9,206	12,549	24,449	15,943	25,961	20,863	14,195	12,555	12,851	15,615	11,164	10,010
Critical Water Years (16%)	5,898	7,717	13,969	13,327	15,970	13,117	9,873	8,441	9,318	10,482	8,001	8,270

Table F.2.2-14-7c. Sacramento River Flow at Freeport, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,667	-3,921	-3,760	-2,850	-449	-2,936	-16,758	-9,323	-1,739	18,884	13,548	10,892
20% Exceedance	4,341	-1,362	-13,009	-3,989	-2,348	-6,517	-18,992	-8,233	3,160	18,634	13,751	9,533
30% Exceedance	5,133	1,434	-7,726	-11,497	-7,165	-11,259	-15,945	-4,440	5,981	18,073	13,902	8,448
40% Exceedance	5,385	4,023	-7,463	-8,297	-7,718	-14,682	-13,521	-1,037	7,442	16,431	13,738	7,161
50% Exceedance	4,951	5,139	-5,880	-8,102	-8,122	-15,119	-9,860	-496	8,024	15,380	12,547	5,458
60% Exceedance	4,259	4,629	-2,084	-4,760	-8,480	-11,054	-7,318	1,812	8,763	13,856	11,174	4,982
70% Exceedance	3,670	3,834	-389	-2,047	-8,061	-10,513	-4,744	2,272	9,041	12,979	8,531	4,762
80% Exceedance	3,432	3,712	782	-942	-4,238	-5,951	-3,587	3,976	8,864	10,832	7,117	4,586
90% Exceedance	3,593	3,720	2,001	-288	-1,744	-3,884	-556	5,182	8,066	8,894	6,098	4,170
Full Simulation Period Average ^a	3,961	1,726	-3,807	-4,320	-5,062	-8,397	-9,064	-1,543	6,083	14,610	10,962	6,734
Wet Water Years (28%)	5,815	2,828	-2,041	-3,840	-2,342	-5,763	-11,720	-6,819	2,308	15,529	12,873	9,414
Above Normal Water Years (14%)	5,791	3,211	-5,503	-6,587	-6,371	-9,328	-14,235	-3,424	6,058	19,432	14,944	10,834
Below Normal Water Years (18%)	3,602	1,071	-4,347	-6,691	-6,880	-11,139	-11,340	1,058	7,364	16,912	12,937	4,760
Dry Water Years (24%)	1,404	-438	-3,035	-3,877	-6,770	-11,119	-7,176	1,214	8,989	13,104	8,545	4,429
Critical Water Years (16%)	3,194	2,427	-5,997	-1,173	-4,066	-5,023	-165	2,277	6,910	8,455	5,540	4,134

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-8a. Sacramento River Flow at Freeport, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11,967	23,041	59,064	70,174	74,317	71,601	63,938	38,894	17,281	4,026	4,966	10,402
20% Exceedance	9,646	16,103	50,161	61,146	66,469	64,000	54,027	31,096	11,158	3,197	4,006	9,266
30% Exceedance	8,168	12,714	33,586	48,769	58,481	54,942	41,532	21,795	7,574	2,959	3,443	8,605
40% Exceedance	7,077	9,406	27,062	37,666	51,432	45,961	33,596	15,431	5,925	2,742	3,140	8,100
50% Exceedance	5,974	7,935	22,018	32,993	39,441	39,613	25,755	12,987	4,928	2,603	2,963	6,433
60% Exceedance	5,028	7,201	16,155	24,531	31,902	32,424	20,929	10,189	3,887	2,372	2,691	5,415
70% Exceedance	4,206	6,024	12,246	16,893	27,753	29,507	16,598	8,962	3,065	2,183	2,483	5,129
80% Exceedance	3,261	4,767	9,704	13,779	21,229	20,936	14,784	6,423	2,424	2,024	2,365	4,657
90% Exceedance	2,484	3,447	7,298	11,216	14,841	15,015	10,501	3,829	1,799	1,733	2,121	4,175
Full Simulation Period Average ^a	7,111	11,956	27,874	36,230	43,365	41,843	32,234	18,132	7,310	2,876	3,238	7,118
Wet Water Years (28%)	8,625	14,812	28,818	58,721	65,114	60,607	53,195	31,912	13,528	3,958	4,358	9,886
Above Normal Water Years (14%)	7,960	12,014	28,685	49,190	57,099	54,901	38,800	20,979	8,077	2,579	3,431	7,949
Below Normal Water Years (18%)	6,802	11,643	32,839	32,361	33,770	36,714	28,734	14,173	5,997	2,662	2,858	6,865
Dry Water Years (24%)	7,802	12,987	27,484	19,820	32,731	31,983	21,371	11,341	3,862	2,512	2,619	5,581
Critical Water Years (16%)	2,704	5,290	19,965	14,499	20,036	18,140	10,038	6,164	2,407	2,027	2,462	4,136

Table F.2.2-14-8b. Sacramento River Flow at Freeport, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,548	19,137	55,609	67,858	73,868	68,734	47,626	29,587	15,053	23,250	18,642	21,314
20% Exceedance	13,957	14,827	37,756	57,409	64,190	57,494	36,829	23,146	14,008	21,875	17,873	18,945
30% Exceedance	13,236	14,313	25,960	37,352	51,320	43,507	27,170	17,463	13,513	20,979	17,212	16,961
40% Exceedance	12,490	13,460	19,614	29,466	43,521	31,280	21,473	15,414	13,040	19,255	16,903	15,963
50% Exceedance	11,064	13,098	16,121	25,207	30,974	24,594	17,461	13,619	12,875	18,064	15,485	11,975
60% Exceedance	9,335	11,715	14,045	19,734	23,389	21,519	14,740	12,340	12,574	16,489	13,817	10,915
70% Exceedance	7,959	9,879	11,963	14,736	19,680	19,031	13,371	11,789	11,818	14,823	10,953	9,905
80% Exceedance	6,716	8,615	10,520	12,846	16,991	14,943	11,767	10,841	11,211	12,684	9,618	9,253
90% Exceedance	6,075	7,139	8,997	10,892	13,375	11,275	10,884	9,657	9,583	10,763	8,114	8,465
Full Simulation Period Average ^a	11,147	13,783	24,148	31,950	38,407	33,494	24,303	17,240	13,226	17,507	14,211	13,882
Wet Water Years (28%)	14,411	17,634	26,780	54,992	62,946	54,780	41,708	25,225	15,798	19,533	17,260	19,270
Above Normal Water Years (14%)	13,734	15,316	23,271	42,845	50,887	45,527	26,396	18,908	13,834	22,094	18,284	18,697
Below Normal Water Years (18%)	10,655	12,748	28,563	25,702	26,955	25,607	19,744	16,343	12,966	19,645	15,771	11,937
Dry Water Years (24%)	9,313	12,923	24,676	15,943	26,050	21,054	15,556	13,155	12,718	15,530	11,226	10,017
Critical Water Years (16%)	5,991	7,679	13,968	13,130	15,963	13,249	10,264	8,942	9,247	10,510	8,035	8,226

Table F.2.2-14-8c. Sacramento River Flow at Freeport, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,581	-3,904	-3,455	-2,317	-449	-2,868	-16,312	-9,307	-2,228	19,224	13,677	10,912
20% Exceedance	4,311	-1,276	-12,406	-3,737	-2,279	-6,506	-17,199	-7,950	2,850	18,677	13,867	9,679
30% Exceedance	5,068	1,599	-7,626	-11,417	-7,161	-11,435	-14,362	-4,332	5,939	18,019	13,769	8,357
40% Exceedance	5,413	4,054	-7,447	-8,200	-7,910	-14,680	-12,123	-17	7,115	16,513	13,763	7,863
50% Exceedance	5,090	5,162	-5,897	-7,786	-8,467	-15,019	-8,294	632	7,947	15,461	12,522	5,542
60% Exceedance	4,306	4,514	-2,111	-4,797	-8,513	-10,904	-6,188	2,151	8,687	14,117	11,126	5,501
70% Exceedance	3,753	3,855	-284	-2,157	-8,073	-10,476	-3,226	2,827	8,754	12,640	8,470	4,776
80% Exceedance	3,455	3,848	816	-933	-4,238	-5,992	-3,017	4,418	8,787	10,660	7,253	4,596
90% Exceedance	3,591	3,692	1,699	-325	-1,466	-3,740	383	5,828	7,784	9,030	5,992	4,290
Full Simulation Period Average ^a	4,035	1,828	-3,726	-4,281	-4,958	-8,349	-7,931	-892	5,916	14,632	10,974	6,764
Wet Water Years (28%)	5,786	2,823	-2,038	-3,729	-2,167	-5,827	-11,487	-6,688	2,270	15,575	12,902	9,384
Above Normal Water Years (14%)	5,774	3,302	-5,414	-6,345	-6,212	-9,374	-12,404	-2,070	5,758	19,515	14,853	10,748
Below Normal Water Years (18%)	3,853	1,105	-4,276	-6,659	-6,814	-11,107	-8,989	2,170	6,969	16,983	12,913	5,072
Dry Water Years (24%)	1,511	-64	-2,808	-3,877	-6,681	-10,929	-5,815	1,813	8,856	13,018	8,607	4,436
Critical Water Years (16%)	3,287	2,389	-5,998	-1,369	-4,073	-4,891	225	2,777	6,840	8,484	5,573	4,090

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-9a. Sacramento River Flow at Freeport, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11,967	23,041	59,064	70,174	74,317	71,601	63,938	38,894	17,281	4,026	4,966	10,402
20% Exceedance	9,646	16,103	50,161	61,146	66,469	64,000	54,027	31,096	11,158	3,197	4,006	9,266
30% Exceedance	8,168	12,714	33,586	48,769	58,481	54,942	41,532	21,795	7,574	2,959	3,443	8,605
40% Exceedance	7,077	9,406	27,062	37,666	51,432	45,961	33,596	15,431	5,925	2,742	3,140	8,100
50% Exceedance	5,974	7,935	22,018	32,993	39,441	39,613	25,755	12,987	4,928	2,603	2,963	6,433
60% Exceedance	5,028	7,201	16,155	24,531	31,902	32,424	20,929	10,189	3,887	2,372	2,691	5,415
70% Exceedance	4,206	6,024	12,246	16,893	27,753	29,507	16,598	8,962	3,065	2,183	2,483	5,129
80% Exceedance	3,261	4,767	9,704	13,779	21,229	20,936	14,784	6,423	2,424	2,024	2,365	4,657
90% Exceedance	2,484	3,447	7,298	11,216	14,841	15,015	10,501	3,829	1,799	1,733	2,121	4,175
Full Simulation Period Average ^a	7,111	11,956	27,874	36,230	43,365	41,843	32,234	18,132	7,310	2,876	3,238	7,118
Wet Water Years (28%)	8,625	14,812	28,818	58,721	65,114	60,607	53,195	31,912	13,528	3,958	4,358	9,886
Above Normal Water Years (14%)	7,960	12,014	28,685	49,190	57,099	54,901	38,800	20,979	8,077	2,579	3,431	7,949
Below Normal Water Years (18%)	6,802	11,643	32,839	32,361	33,770	36,714	28,734	14,173	5,997	2,662	2,858	6,865
Dry Water Years (24%)	7,802	12,987	27,484	19,820	32,731	31,983	21,371	11,341	3,862	2,512	2,619	5,581
Critical Water Years (16%)	2,704	5,290	19,965	14,499	20,036	18,140	10,038	6,164	2,407	2,027	2,462	4,136

Table F.2.2-14-9b. Sacramento River Flow at Freeport, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,555	19,173	55,571	67,259	73,616	68,482	47,211	29,612	16,154	22,849	18,878	21,293
20% Exceedance	13,965	14,948	37,147	57,540	64,124	57,440	35,102	22,863	14,435	21,699	17,855	19,115
30% Exceedance	13,314	13,929	25,895	37,235	51,175	43,701	25,499	17,541	13,617	20,879	17,262	16,760
40% Exceedance	12,346	13,292	19,601	29,982	43,785	31,183	20,178	14,650	13,364	19,283	16,791	15,216
50% Exceedance	10,910	12,475	16,852	25,049	31,332	24,810	15,810	12,701	12,925	18,332	15,848	11,837
60% Exceedance	9,462	11,208	14,082	19,789	23,414	21,964	13,616	12,123	12,816	16,749	13,031	10,924
70% Exceedance	8,008	9,981	12,232	15,643	19,699	18,905	11,909	11,426	12,247	15,146	10,485	10,087
80% Exceedance	6,673	8,476	10,546	13,006	17,214	14,746	11,135	10,486	11,207	12,420	9,061	9,238
90% Exceedance	6,081	7,168	9,376	11,639	13,090	10,734	8,739	8,208	9,195	8,195	7,553	8,472
Full Simulation Period Average ^a	11,105	13,683	24,210	32,148	38,355	33,374	22,933	16,694	13,294	17,105	14,012	13,829
Wet Water Years (28%)	14,438	17,475	26,948	55,011	62,782	54,858	41,484	25,185	15,861	19,458	17,235	19,186
Above Normal Water Years (14%)	13,749	15,043	23,202	42,660	50,749	46,044	24,720	17,661	14,359	21,809	18,518	18,518
Below Normal Water Years (18%)	10,353	12,658	28,486	25,888	27,232	25,630	17,712	15,508	13,347	19,783	15,736	11,762
Dry Water Years (24%)	9,236	12,674	24,472	16,092	25,918	20,897	14,386	12,690	12,962	15,282	10,549	10,089
Critical Water Years (16%)	6,130	8,090	14,558	14,064	15,934	12,117	7,600	8,325	8,305	8,591	7,684	8,288

Table F.2.2-14-9c. Sacramento River Flow at Freeport, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,588	-3,868	-3,493	-2,915	-701	-3,119	-16,727	-9,283	-1,127	18,823	13,912	10,891
20% Exceedance	4,319	-1,155	-13,014	-3,607	-2,345	-6,560	-18,925	-8,233	3,277	18,502	13,849	9,849
30% Exceedance	5,146	1,214	-7,692	-11,533	-7,306	-11,241	-16,033	-4,254	6,043	17,920	13,819	8,155
40% Exceedance	5,269	3,886	-7,461	-7,684	-7,647	-14,778	-13,418	-781	7,440	16,541	13,652	7,116
50% Exceedance	4,937	4,540	-5,166	-7,944	-8,109	-14,803	-9,946	-286	7,997	15,729	12,884	5,403
60% Exceedance	4,433	4,008	-2,074	-4,742	-8,488	-10,459	-7,313	1,934	8,930	14,377	10,340	5,509
70% Exceedance	3,802	3,957	-14	-1,250	-8,055	-10,602	-4,689	2,465	9,183	12,962	8,002	4,958
80% Exceedance	3,412	3,708	842	-773	-4,014	-6,190	-3,650	4,063	8,783	10,397	6,696	4,581
90% Exceedance	3,597	3,720	2,078	423	-1,751	-4,281	-1,762	4,380	7,396	6,461	5,431	4,297
Full Simulation Period Average ^a	3,993	1,727	-3,664	-4,082	-5,010	-8,469	-9,301	-1,438	5,984	14,229	10,774	6,711
Wet Water Years (28%)	5,814	2,663	-1,870	-3,710	-2,332	-5,749	-11,712	-6,727	2,333	15,499	12,876	9,300
Above Normal Water Years (14%)	5,789	3,029	-5,484	-6,530	-6,350	-8,857	-14,080	-3,318	6,283	19,230	15,086	10,569
Below Normal Water Years (18%)	3,551	1,014	-4,352	-6,474	-6,538	-11,083	-11,021	1,335	7,350	17,121	12,878	4,897
Dry Water Years (24%)	1,434	-313	-3,012	-3,727	-6,813	-11,086	-6,985	1,349	9,100	12,770	7,930	4,508
Critical Water Years (16%)	3,426	2,800	-5,408	-436	-4,102	-6,022	-2,438	2,161	5,898	6,564	5,222	4,152

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-14-10a. Sacramento River Flow at Freeport, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	11,967	23,041	59,064	70,174	74,317	71,601	63,938	38,894	17,281	4,026	4,966	10,402
20% Exceedance	9,646	16,103	50,161	61,146	66,469	64,000	54,027	31,096	11,158	3,197	4,006	9,266
30% Exceedance	8,168	12,714	33,586	48,769	58,481	54,942	41,532	21,795	7,574	2,959	3,443	8,605
40% Exceedance	7,077	9,406	27,062	37,666	51,432	45,961	33,596	15,431	5,925	2,742	3,140	8,100
50% Exceedance	5,974	7,935	22,018	32,993	39,441	39,613	25,755	12,987	4,928	2,603	2,963	6,433
60% Exceedance	5,028	7,201	16,155	24,531	31,902	32,424	20,929	10,189	3,887	2,372	2,691	5,415
70% Exceedance	4,206	6,024	12,246	16,893	27,753	29,507	16,598	8,962	3,065	2,183	2,483	5,129
80% Exceedance	3,261	4,767	9,704	13,779	21,229	20,936	14,784	6,423	2,424	2,024	2,365	4,657
90% Exceedance	2,484	3,447	7,298	11,216	14,841	15,015	10,501	3,829	1,799	1,733	2,121	4,175
Full Simulation Period Average^a	7,111	11,956	27,874	36,230	43,365	41,843	32,234	18,132	7,310	2,876	3,238	7,118
Wet Water Years (28%)	8,625	14,812	28,818	58,721	65,114	60,607	53,195	31,912	13,528	3,958	4,358	9,886
Above Normal Water Years (14%)	7,960	12,014	28,685	49,190	57,099	54,901	38,800	20,979	8,077	2,579	3,431	7,949
Below Normal Water Years (18%)	6,802	11,643	32,839	32,361	33,770	36,714	28,734	14,173	5,997	2,662	2,858	6,865
Dry Water Years (24%)	7,802	12,987	27,484	19,820	32,731	31,983	21,371	11,341	3,862	2,512	2,619	5,581
Critical Water Years (16%)	2,704	5,290	19,965	14,499	20,036	18,140	10,038	6,164	2,407	2,027	2,462	4,136

Table F.2.2-14-10b. Sacramento River Flow at Freeport, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15,545	19,157	55,126	66,494	73,425	68,291	47,177	29,621	16,098	23,771	18,915	20,433
20% Exceedance	13,782	14,678	37,311	57,357	64,128	57,432	35,020	22,855	14,422	22,602	18,112	19,429
30% Exceedance	13,160	13,583	26,183	37,976	51,194	43,258	25,354	17,089	14,046	21,388	17,479	16,592
40% Exceedance	12,183	13,316	19,640	29,734	43,375	31,118	20,199	14,709	13,631	19,568	16,950	15,231
50% Exceedance	11,055	12,453	16,624	24,563	31,153	24,455	15,795	12,618	13,415	18,088	15,823	11,772
60% Exceedance	9,435	11,595	14,021	19,936	23,604	21,782	13,667	12,125	12,841	16,938	13,097	10,479
70% Exceedance	7,917	9,873	12,285	14,102	19,795	18,931	11,906	11,512	12,117	15,457	10,966	10,066
80% Exceedance	6,889	8,410	10,800	12,750	17,486	14,712	10,899	10,474	11,283	13,478	9,473	9,274
90% Exceedance	6,128	7,168	9,354	10,919	13,455	11,069	8,221	7,673	8,404	8,072	8,254	8,519
Full Simulation Period Average^a	11,103	13,530	24,101	31,865	38,291	33,408	22,828	16,631	13,375	17,639	14,168	13,690
Wet Water Years (28%)	14,451	17,434	27,033	54,842	62,760	54,851	41,480	25,090	15,687	19,855	17,467	19,173
Above Normal Water Years (14%)	13,401	15,029	23,252	42,212	50,739	46,128	24,744	17,591	14,298	22,601	18,670	17,773
Below Normal Water Years (18%)	10,566	12,240	28,266	25,844	26,762	25,438	17,591	15,816	13,307	20,348	15,433	11,618
Dry Water Years (24%)	9,276	12,666	24,264	15,939	25,789	20,936	14,270	12,556	13,504	16,029	10,922	10,107
Critical Water Years (16%)	6,124	7,672	14,220	13,266	16,302	12,429	7,241	8,017	8,404	8,787	7,901	8,230

Table F.2.2-14-10c. Sacramento River Flow at Freeport, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,578	-3,884	-3,938	-3,680	-892	-3,310	-16,761	-9,273	-1,183	19,745	13,950	10,031
20% Exceedance	4,136	-1,424	-12,850	-3,789	-2,341	-6,568	-19,007	-8,241	3,264	19,405	14,106	10,163
30% Exceedance	4,993	869	-7,403	-10,792	-7,287	-11,683	-16,179	-4,706	6,472	18,429	14,037	7,987
40% Exceedance	5,106	3,910	-7,421	-7,932	-8,056	-14,842	-13,397	-722	7,707	16,826	13,810	7,131
50% Exceedance	5,081	4,517	-5,394	-8,430	-8,288	-15,158	-9,961	-368	8,487	15,486	12,860	5,338
60% Exceedance	4,406	4,394	-2,134	-4,595	-8,298	-10,642	-7,262	1,936	8,954	14,566	10,406	5,064
70% Exceedance	3,711	3,850	39	-2,791	-7,958	-10,576	-4,692	2,551	9,052	13,274	8,483	4,937
80% Exceedance	3,628	3,643	1,096	-1,029	-3,742	-6,224	-3,886	4,051	8,859	11,454	7,108	4,617
90% Exceedance	3,644	3,721	2,056	-298	-1,386	-3,946	-2,280	3,845	6,605	6,339	6,133	4,344
Full Simulation Period Average^a	3,992	1,574	-3,772	-4,365	-5,074	-8,434	-9,406	-1,501	6,065	14,763	10,930	6,573
Wet Water Years (28%)	5,826	2,623	-1,785	-3,879	-2,354	-5,755	-11,715	-6,822	2,159	15,897	13,109	9,287
Above Normal Water Years (14%)	5,441	3,015	-5,434	-6,978	-6,360	-8,773	-14,056	-3,388	6,222	20,022	15,238	9,824
Below Normal Water Years (18%)	3,765	597	-4,572	-6,517	-7,008	-11,276	-11,143	1,643	7,310	17,686	12,575	4,753
Dry Water Years (24%)	1,474	-321	-3,219	-3,881	-6,942	-11,046	-7,101	1,215	9,642	13,518	8,303	4,526
Critical Water Years (16%)	3,420	2,382	-5,746	-1,233	-3,734	-5,711	-2,798	1,853	5,996	6,760	5,439	4,094

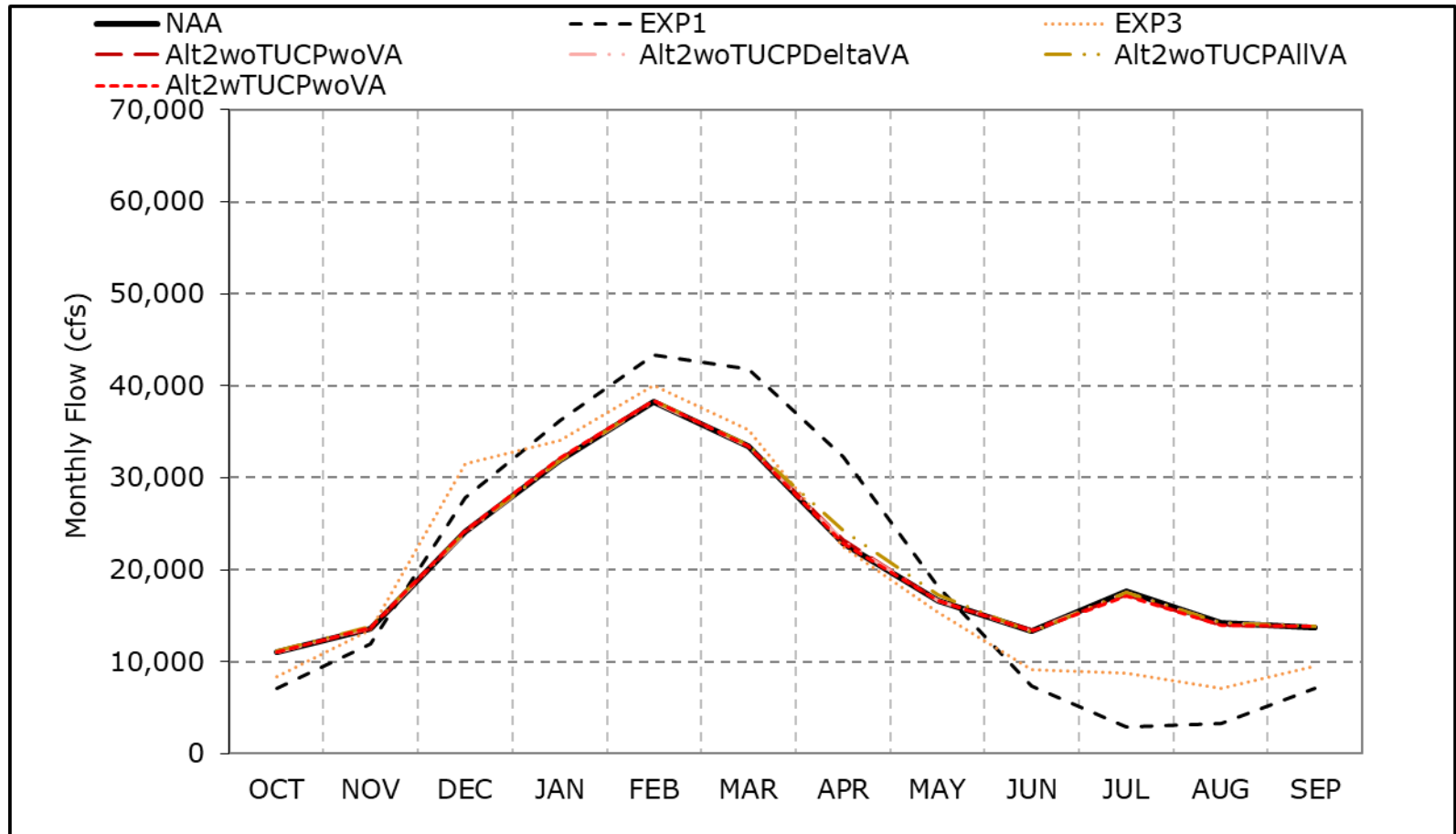
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-14-1. Sacramento River Flow at Freeport, Long-Term Average Flow

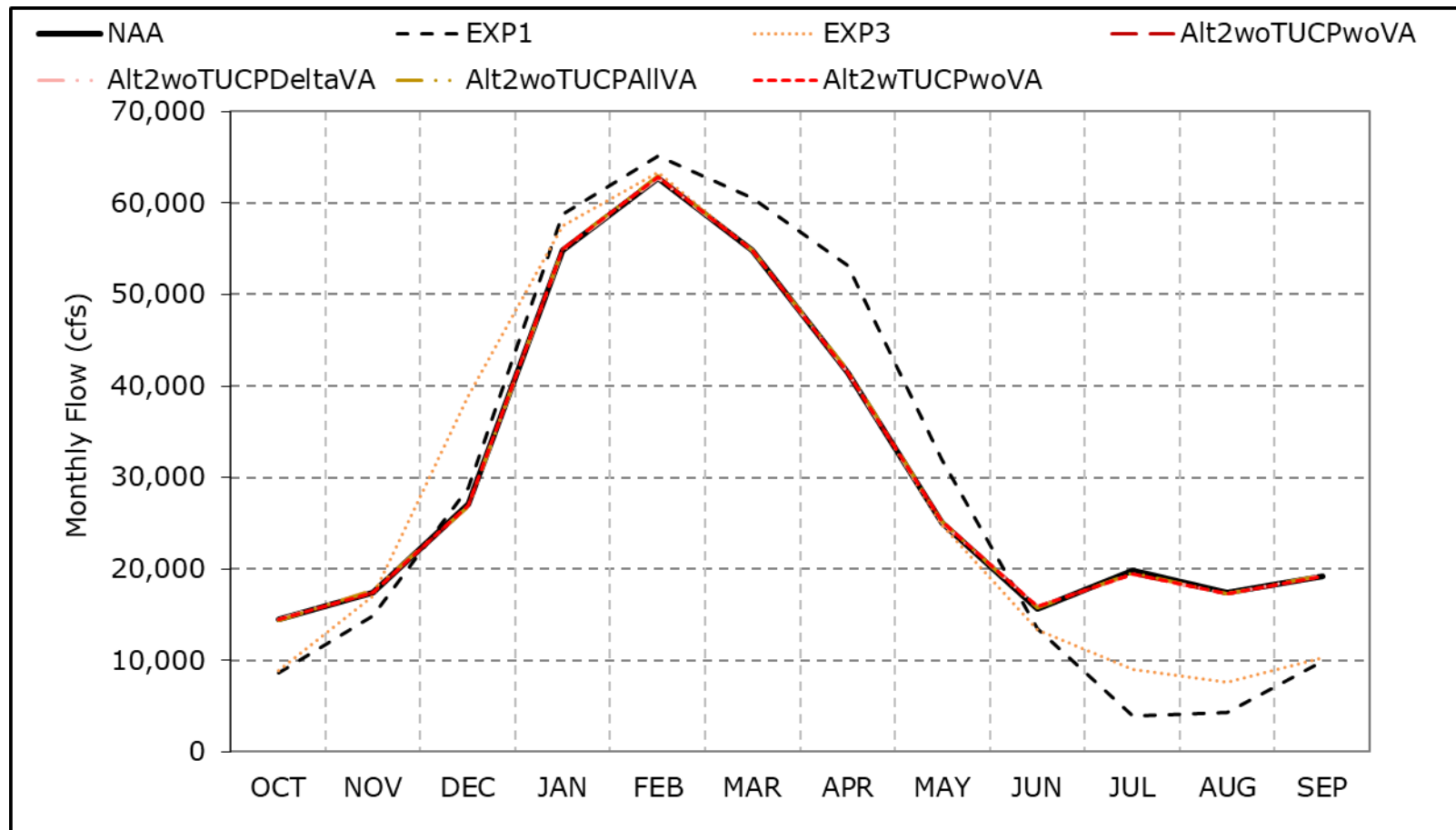


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-2. Sacramento River Flow at Freeport, Wet Year Average Flow

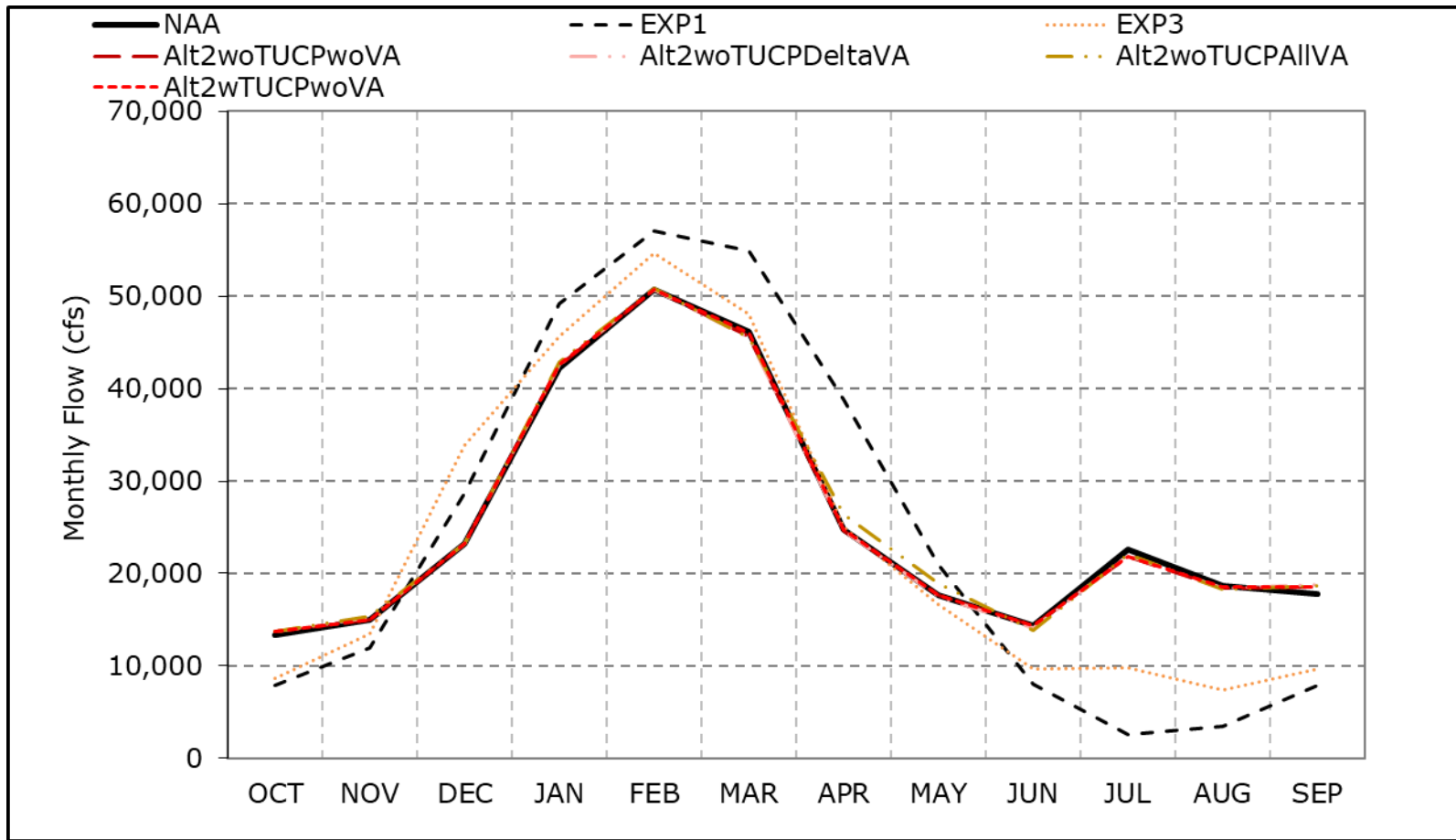


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-3. Sacramento River Flow at Freeport, Above Normal Year Average Flow

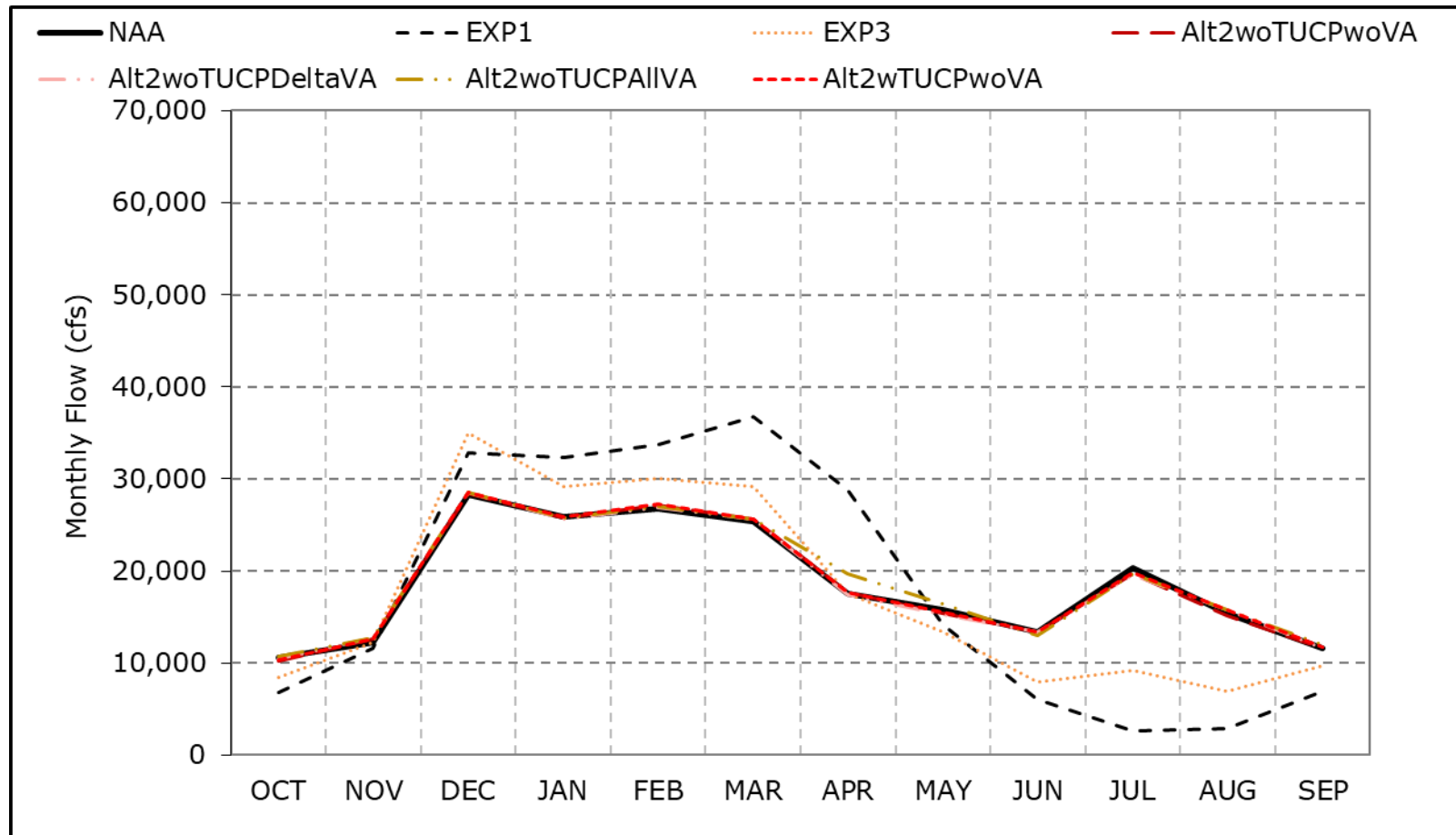


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-4. Sacramento River Flow at Freeport, Below Normal Year Average Flow

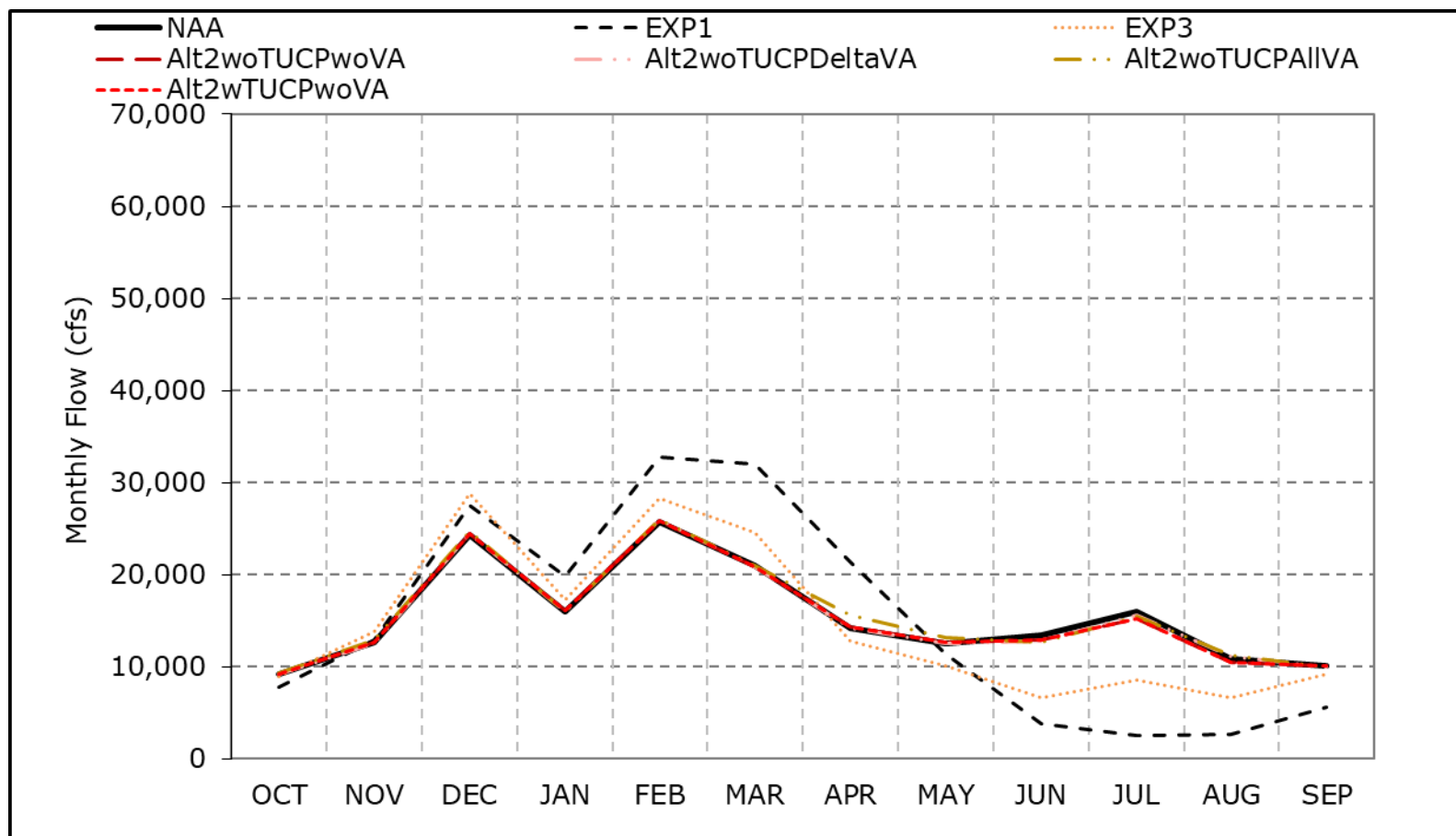


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-5. Sacramento River Flow at Freeport, Dry Year Average Flow

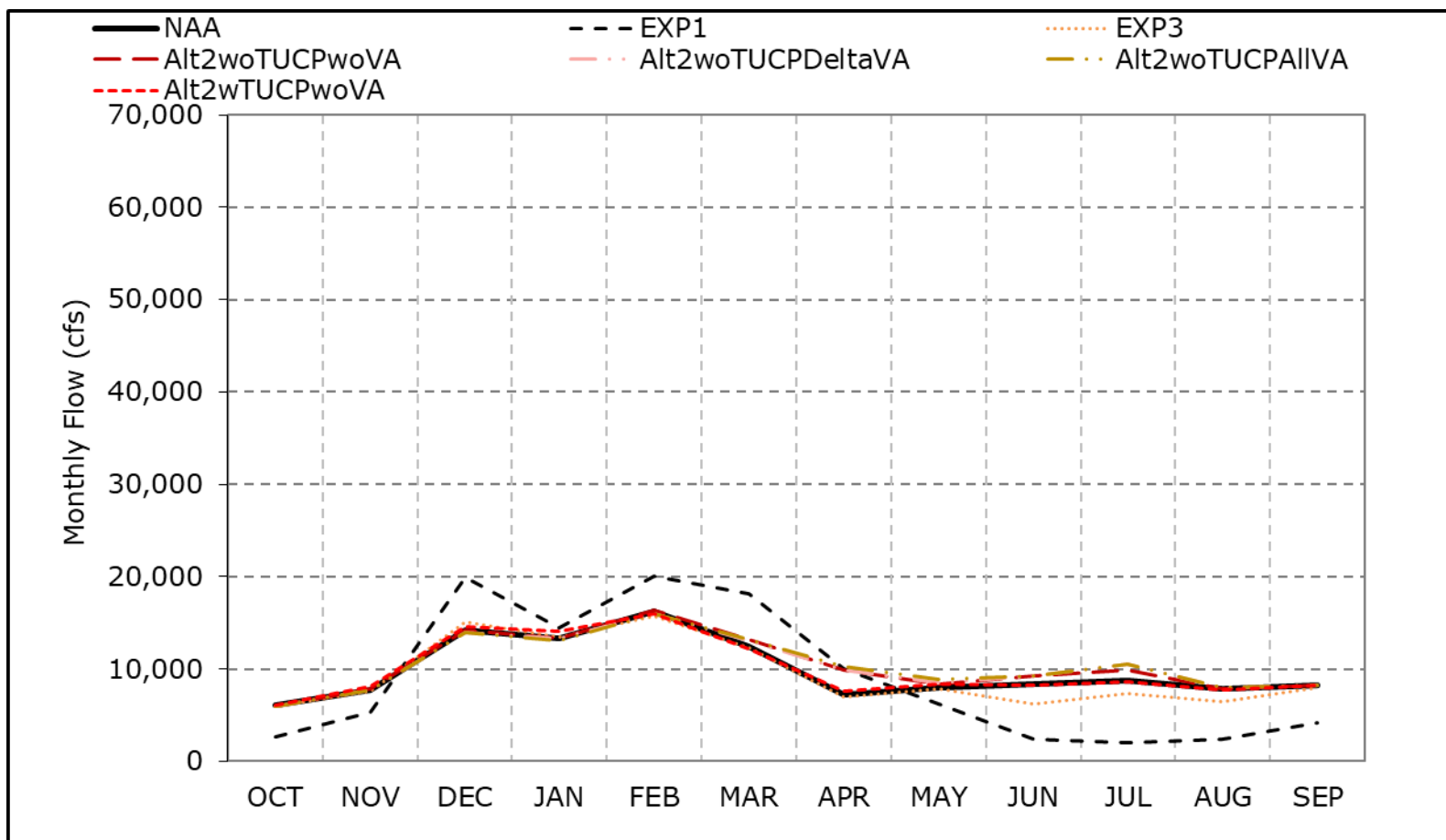


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-6. Sacramento River Flow at Freeport, Critical Year Average Flow

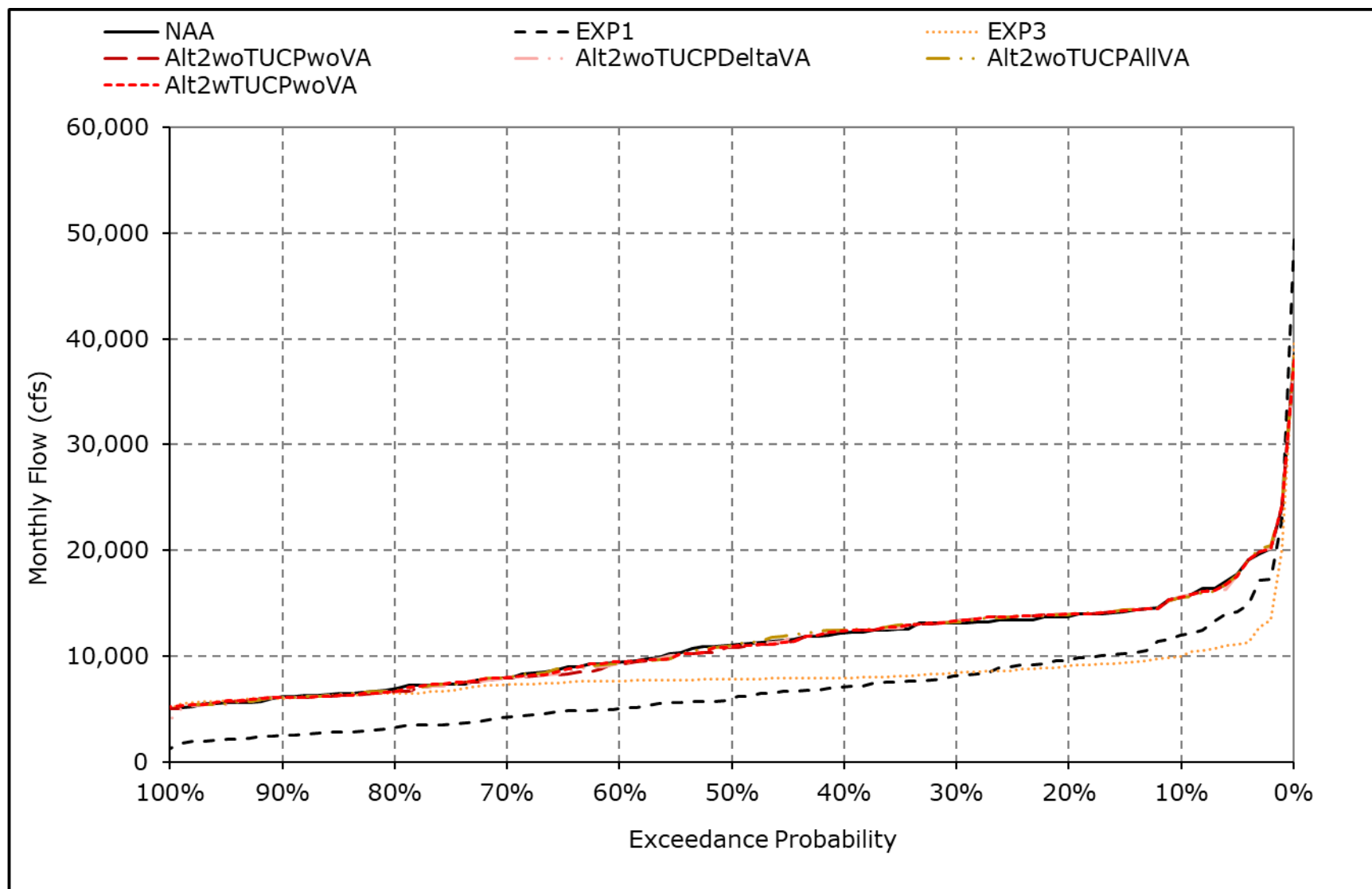


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

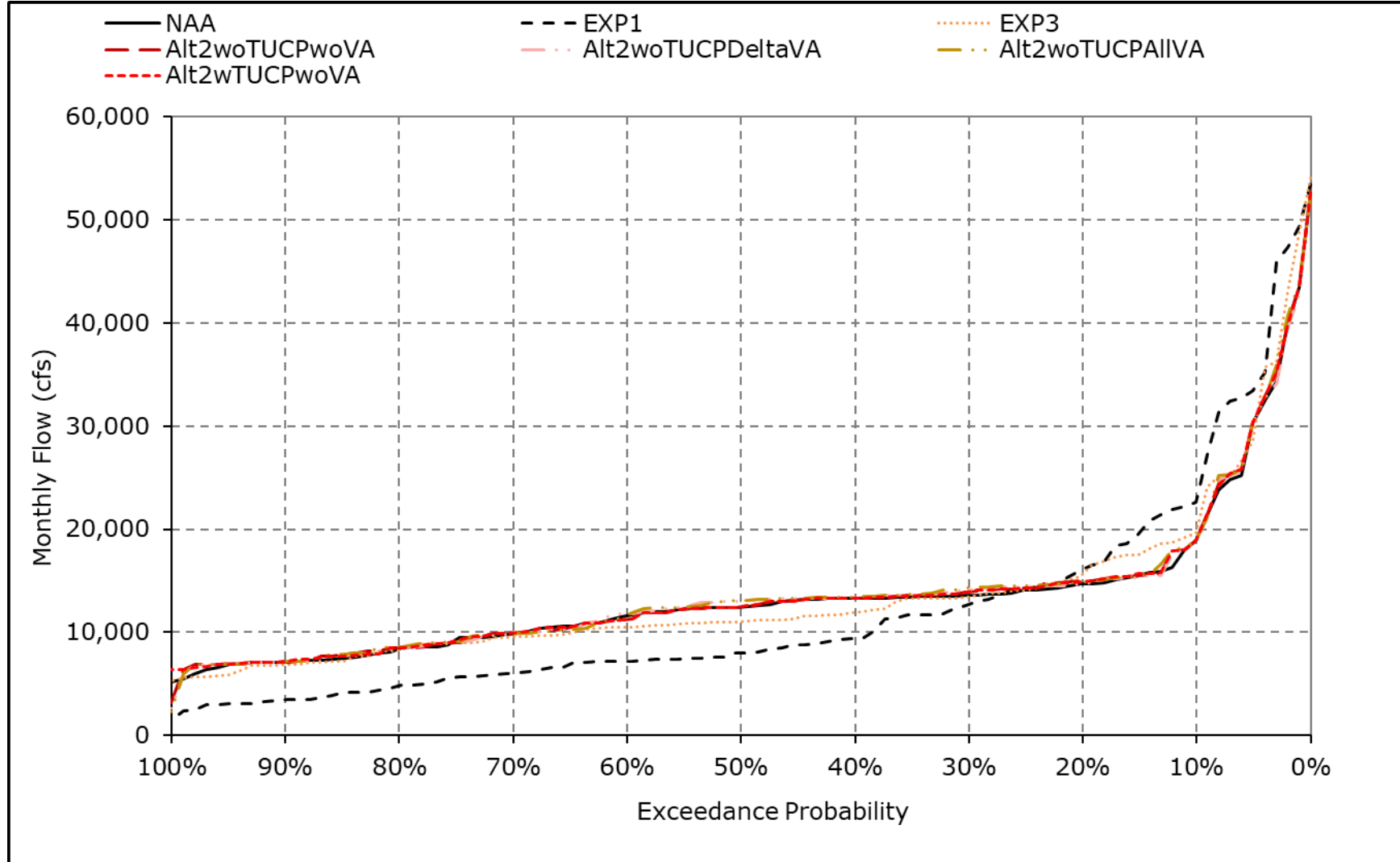
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-7. Sacramento River Flow at Freeport, October



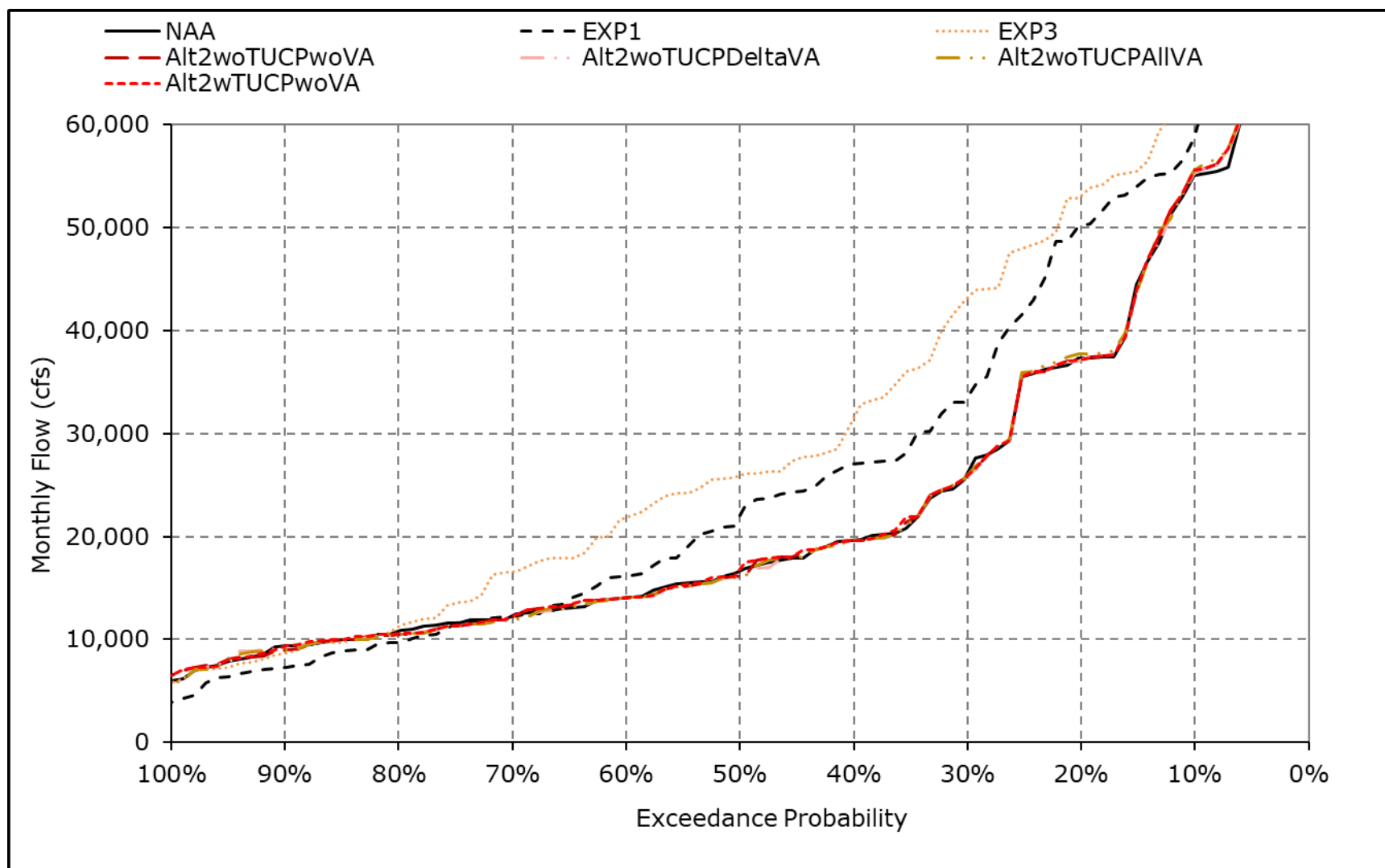
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-8. Sacramento River Flow at Freeport, November



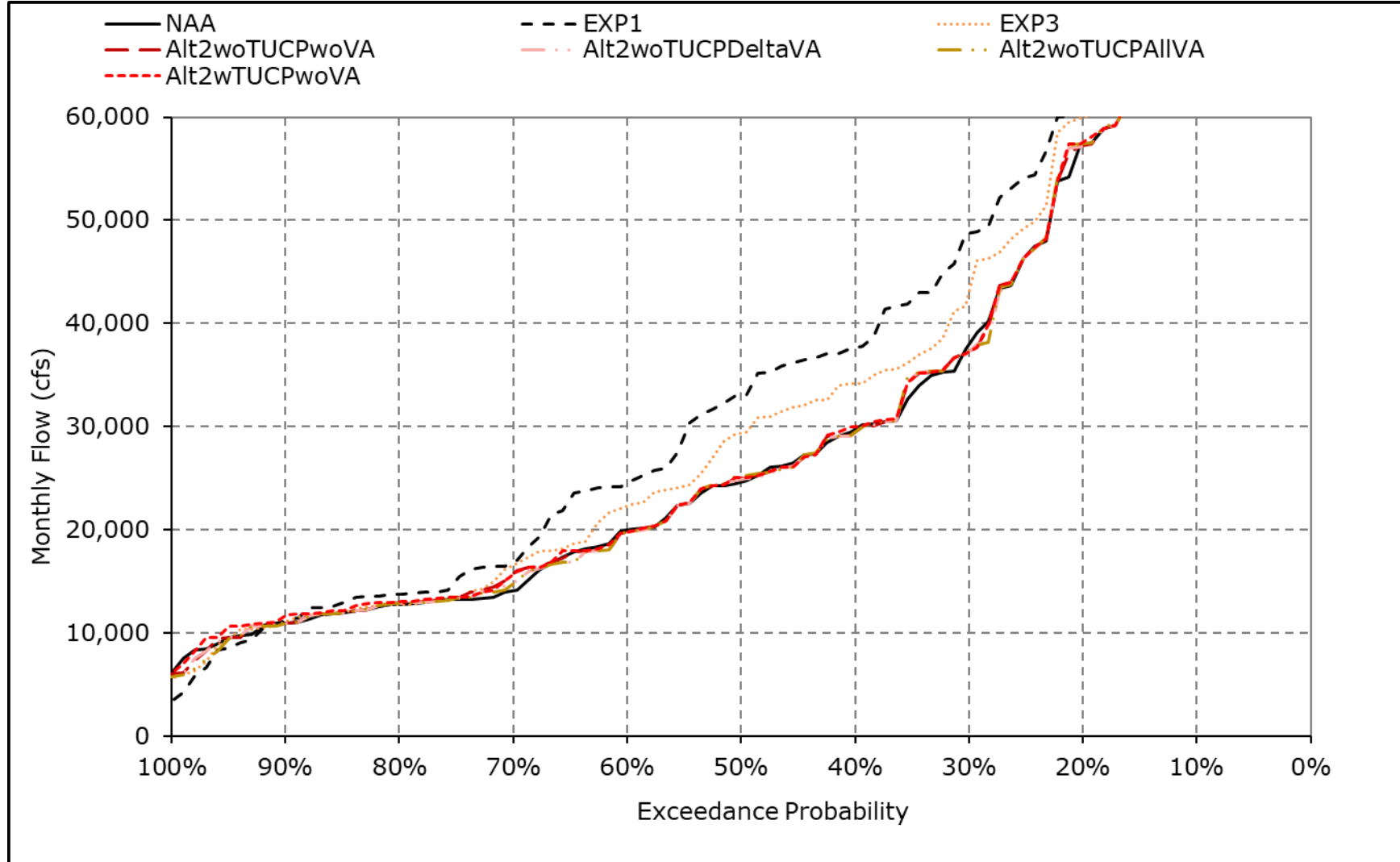
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-9. Sacramento River Flow at Freeport, December



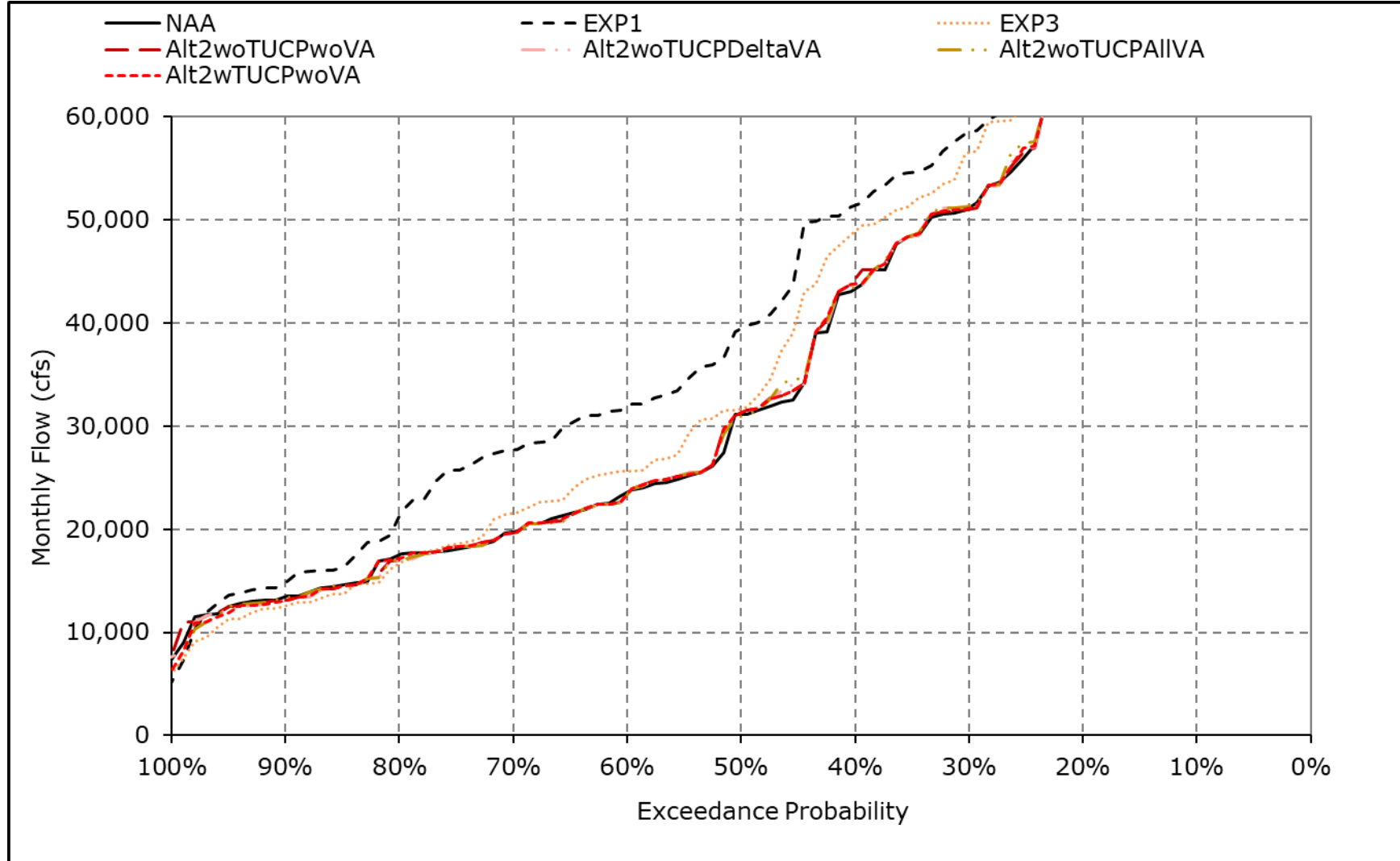
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-10. Sacramento River Flow at Freeport, January



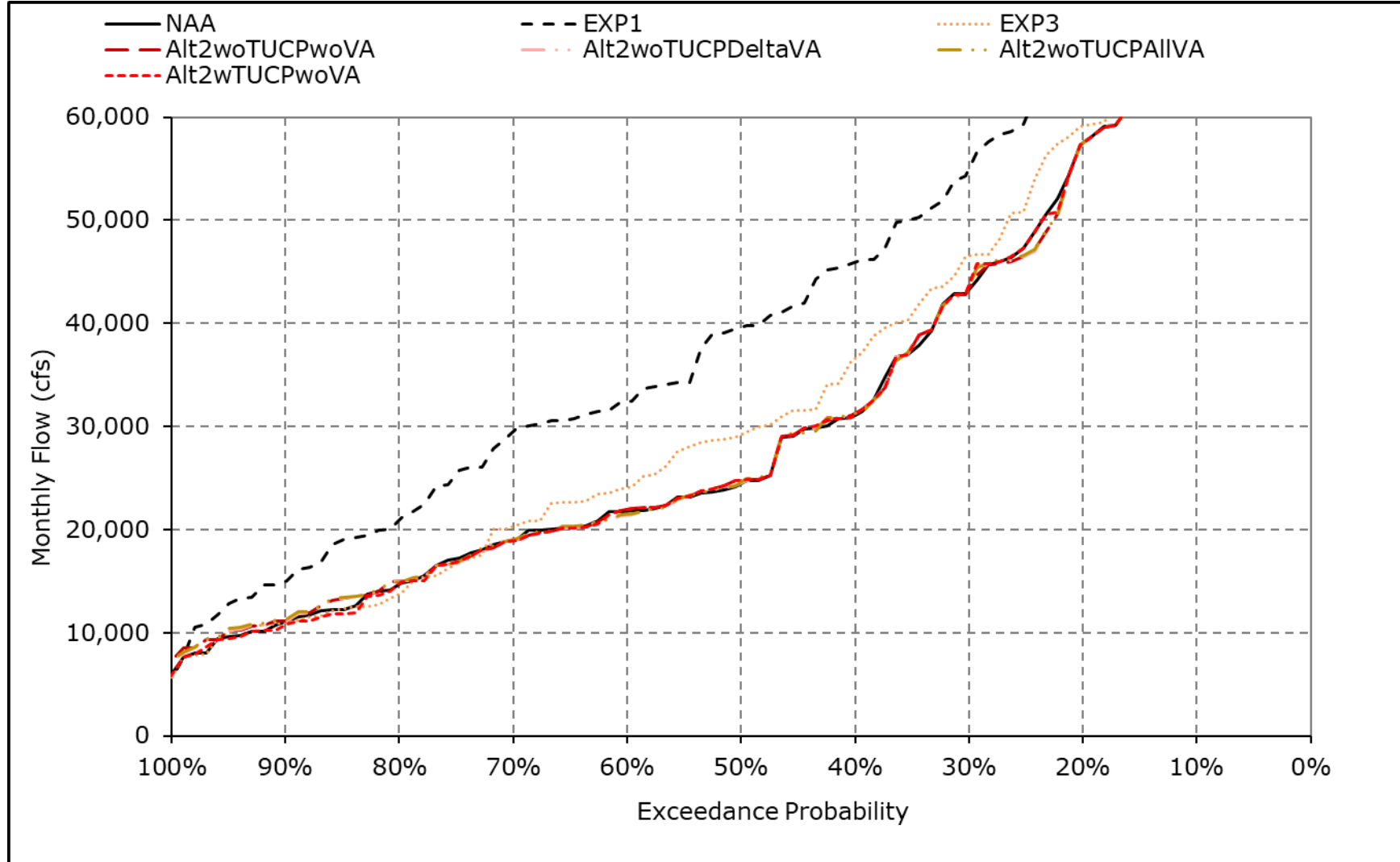
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-11. Sacramento River Flow at Freeport, February



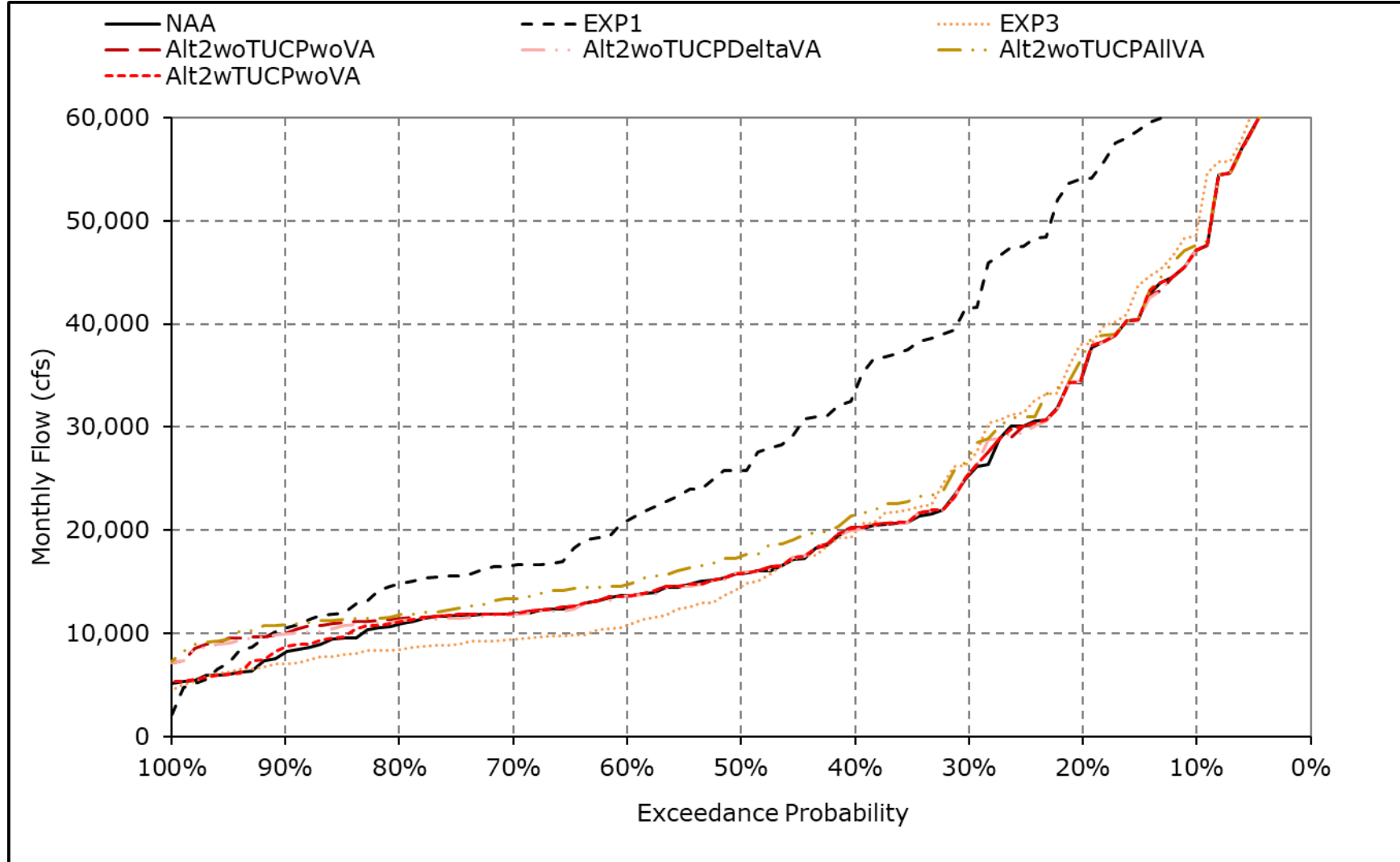
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-12. Sacramento River Flow at Freeport, March



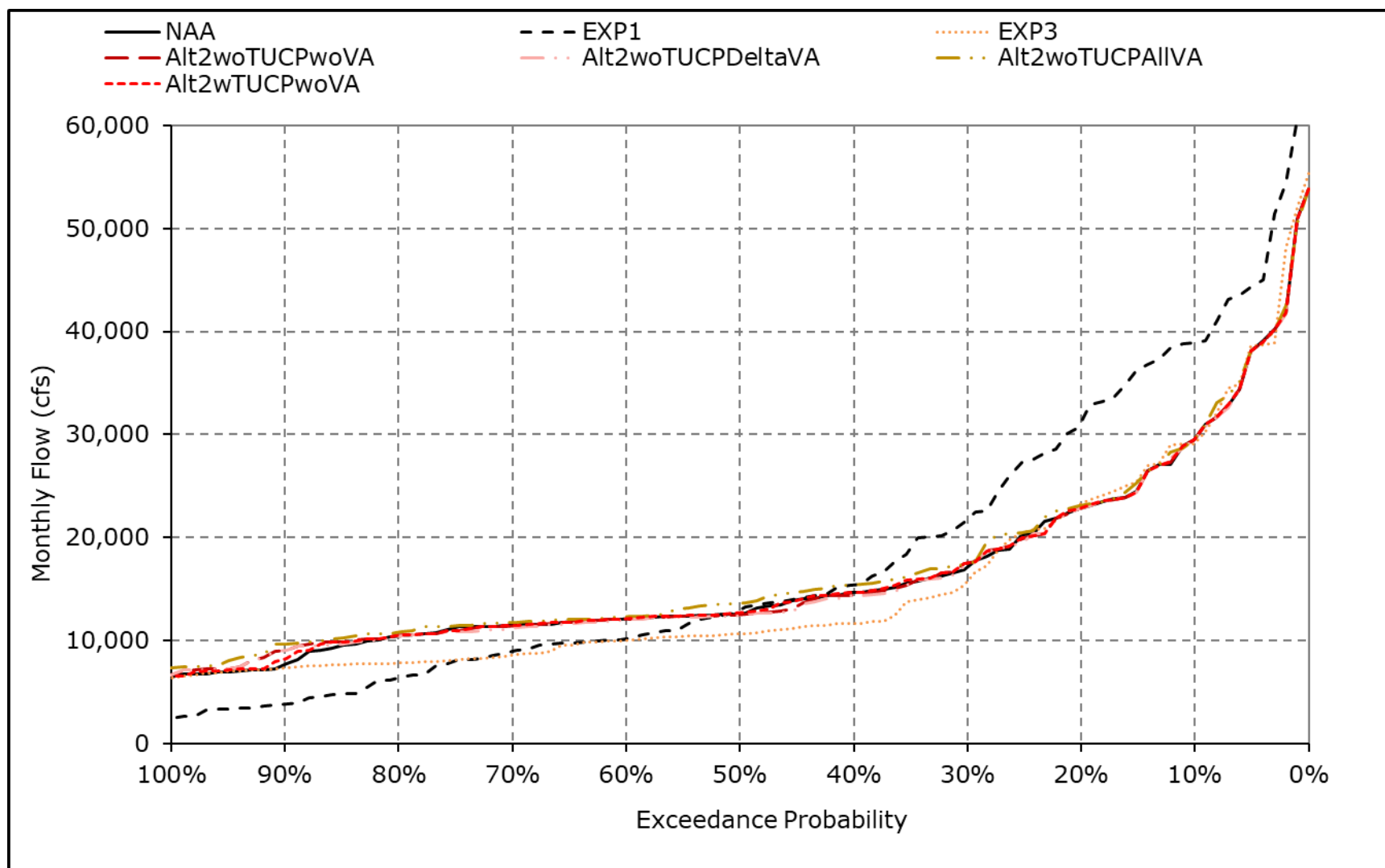
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-13. Sacramento River Flow at Freeport, April



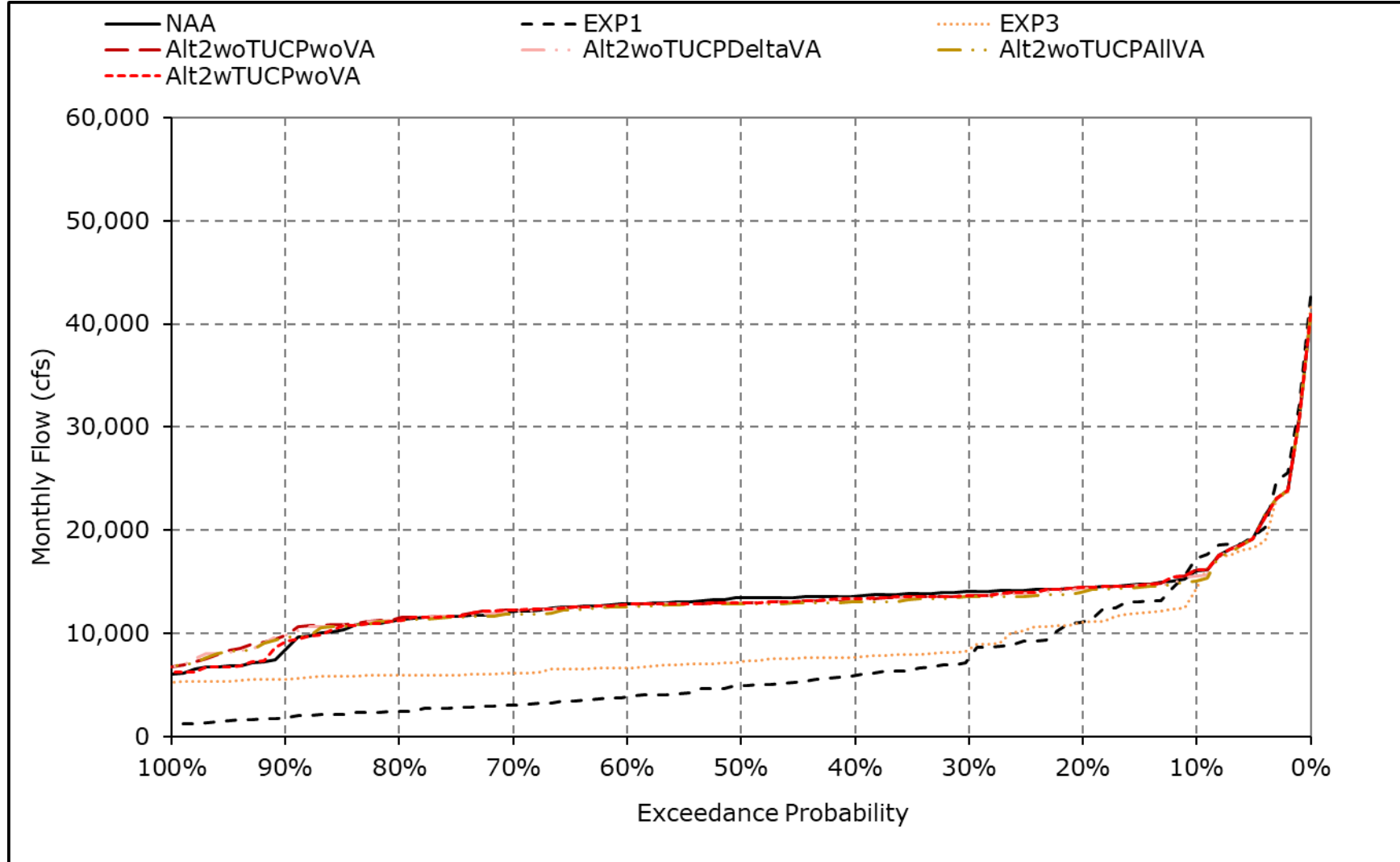
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-14. Sacramento River Flow at Freeport, May



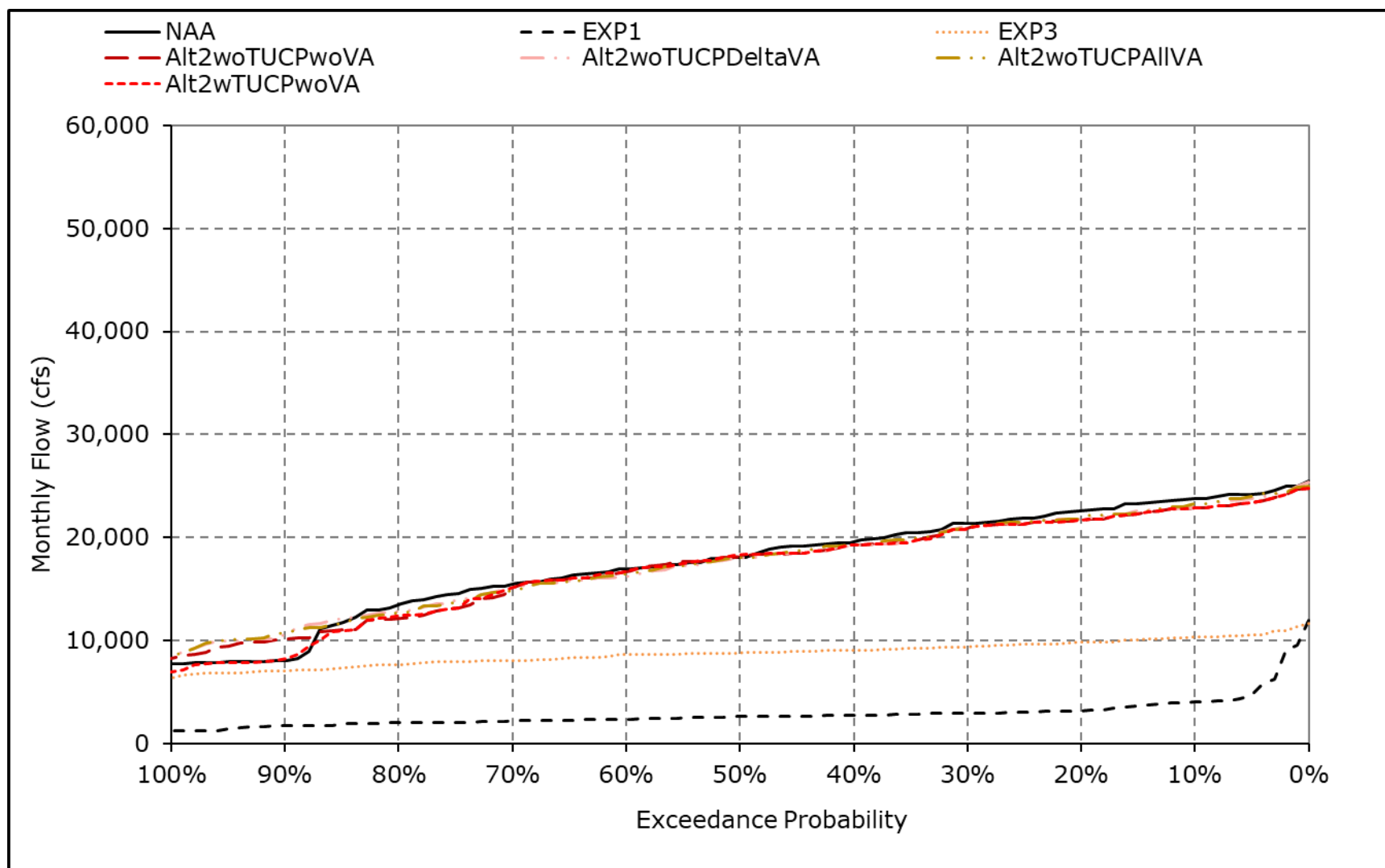
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-15. Sacramento River Flow at Freeport, June



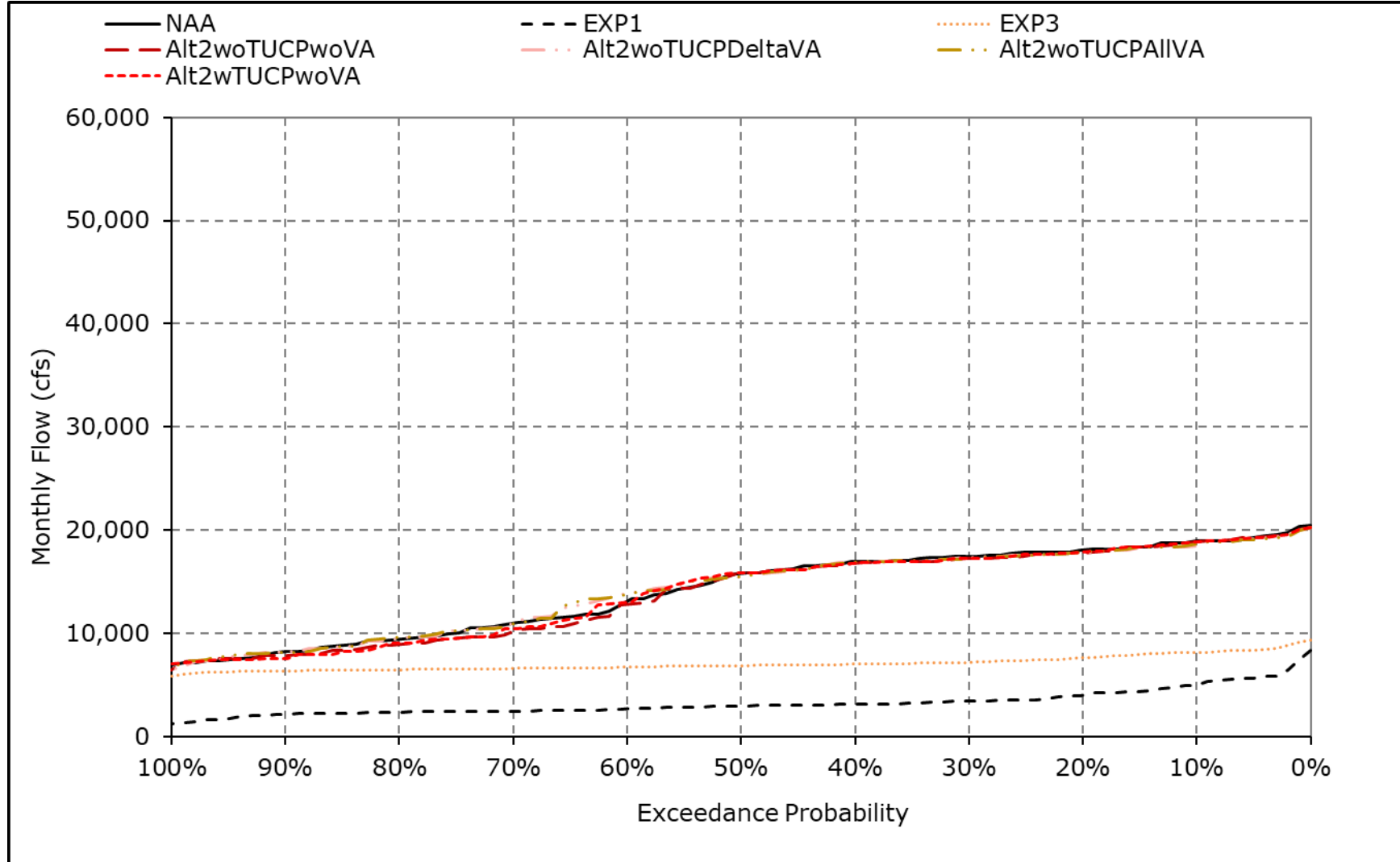
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-16. Sacramento River Flow at Freeport, July



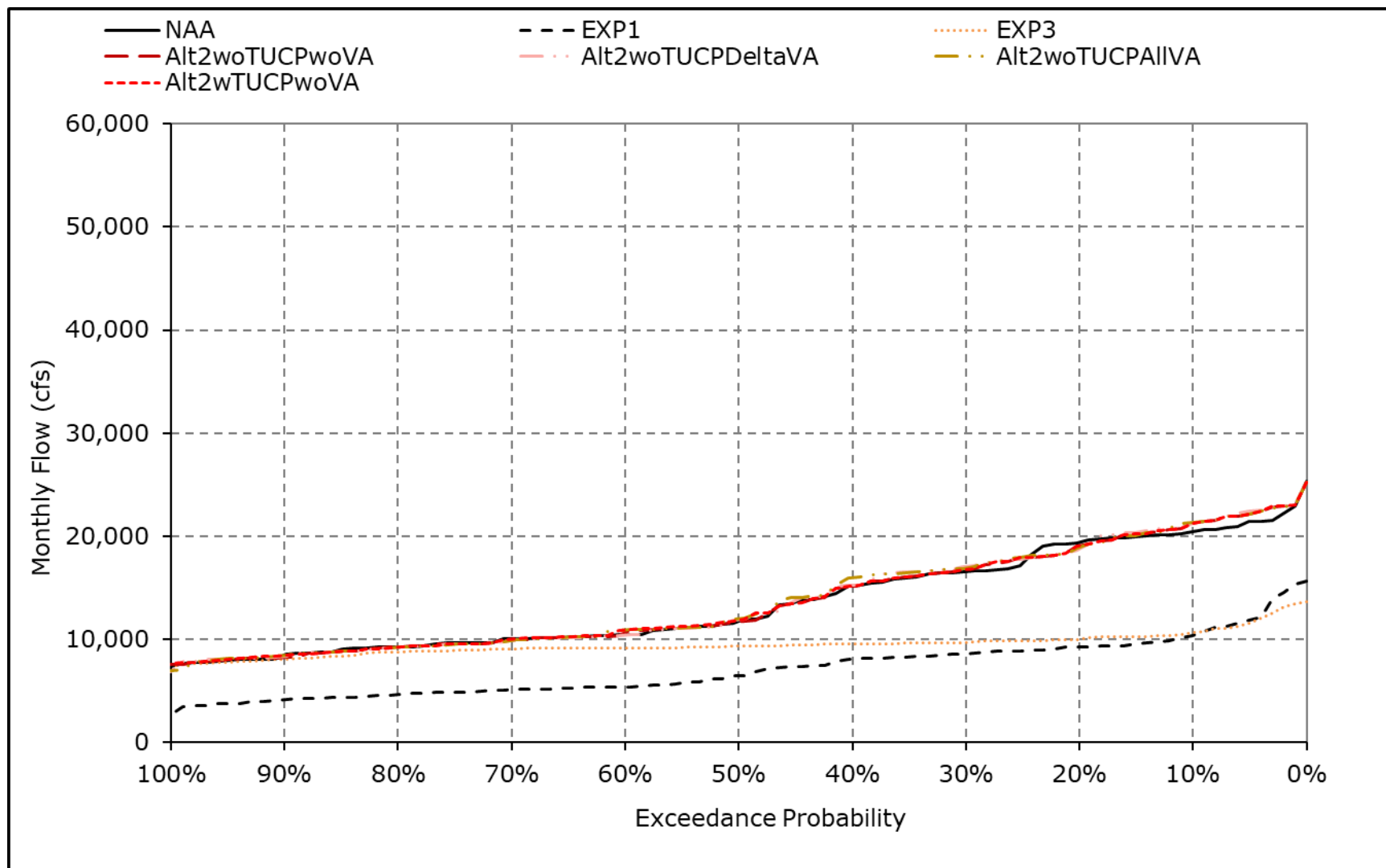
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-17. Sacramento River Flow at Freeport, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-14-18. Sacramento River Flow at Freeport, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-15-1a. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average ^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-1b. Sacramento River Flow at Rio Vista, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,391	15,799	67,216	93,309	124,346	83,302	41,072	24,868	9,114	13,048	10,537	12,586
20% Exceedance	7,938	9,919	41,192	66,901	76,306	57,939	29,805	18,786	7,900	12,330	9,919	11,063
30% Exceedance	7,467	9,078	22,923	35,218	54,077	41,027	20,735	13,833	7,392	11,846	9,509	9,539
40% Exceedance	6,663	8,245	16,981	27,668	45,190	28,742	16,584	11,013	7,244	10,670	9,136	8,552
50% Exceedance	5,748	7,671	13,909	22,559	29,661	21,637	12,385	9,313	6,949	10,055	8,519	6,203
60% Exceedance	5,262	6,987	11,230	16,829	21,288	18,393	10,510	8,767	6,800	8,929	6,475	5,507
70% Exceedance	4,849	5,813	9,628	12,388	16,599	15,712	8,913	8,251	6,447	7,793	4,784	4,965
80% Exceedance	4,168	4,909	7,676	9,746	14,553	12,054	8,394	7,394	5,968	5,895	3,938	4,409
90% Exceedance	3,886	4,500	6,641	8,014	10,616	8,504	7,266	6,282	4,707	4,911	3,311	3,955
Full Simulation Period Average ^a	6,838	9,729	25,589	39,028	50,925	37,237	20,556	13,075	7,466	9,419	7,270	7,612
Wet Water Years (28%)	8,918	13,143	29,075	82,789	104,657	73,357	40,466	20,846	9,583	10,853	9,482	11,391
Above Normal Water Years (14%)	7,870	10,563	22,265	47,627	62,087	47,845	20,525	13,893	7,883	12,389	10,298	10,691
Below Normal Water Years (18%)	6,065	8,557	30,012	23,698	25,659	22,481	14,108	11,876	7,212	11,000	8,103	6,144
Dry Water Years (24%)	6,329	9,274	28,392	13,365	25,287	17,773	11,171	9,368	6,948	7,988	4,949	5,033
Critical Water Years (16%)	3,665	4,658	12,614	10,660	14,009	10,543	7,072	5,672	4,458	4,677	3,293	3,827

Table F.2.2-15-1c. Sacramento River Flow at Rio Vista, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3	20	-54	351	-30	111	-66	-9	-4	-607	-25	466
20% Exceedance	119	162	99	325	-1,227	-17	60	-4	-11	-563	-169	-284
30% Exceedance	130	414	109	-76	-292	214	73	386	-276	-238	-141	102
40% Exceedance	21	14	-493	-11	948	199	122	-52	-152	-293	-74	-62
50% Exceedance	-258	140	30	252	964	58	45	-190	-254	140	-16	2
60% Exceedance	66	-79	-2	-259	-193	17	66	-132	-103	-214	-214	76
70% Exceedance	80	69	176	1,023	-110	5	28	-16	-97	-364	-484	-29
80% Exceedance	-81	71	-173	140	-114	359	465	-63	268	-921	-287	11
90% Exceedance	96	27	-198	8	-37	54	1,722	1,283	923	1,338	-262	-36
Full Simulation Period Average ^a	-12	126	165	235	183	-31	390	46	60	-266	-175	53
Wet Water Years (28%)	-11	46	-59	425	218	-26	-13	74	117	-256	-156	8
Above Normal Water Years (14%)	74	5	40	512	7	-1,066	-70	49	37	-888	-143	479
Below Normal Water Years (18%)	-82	333	267	-45	363	153	50	-358	58	-407	-168	-35
Dry Water Years (24%)	-48	24	549	153	220	-25	95	105	-376	-525	-275	-13
Critical Water Years (16%)	43	314	-31	99	17	649	2,324	361	635	807	-98	-42

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-2a. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average ^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-2b. Sacramento River Flow at Rio Vista, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,441	15,790	67,162	92,306	124,270	83,061	41,107	24,837	8,691	13,085	10,304	12,588
20% Exceedance	7,874	9,865	41,206	66,980	75,103	57,976	29,755	18,790	7,841	12,453	9,850	10,854
30% Exceedance	7,431	8,930	22,898	35,123	54,179	40,992	20,825	13,678	7,385	11,871	9,642	9,786
40% Exceedance	6,721	8,335	16,975	27,660	44,638	28,596	16,319	10,927	7,232	10,591	9,221	8,743
50% Exceedance	5,991	8,048	13,614	22,476	29,555	21,630	12,248	9,280	6,936	9,882	8,363	6,222
60% Exceedance	5,307	7,033	11,171	16,824	21,295	18,028	10,329	8,770	6,760	8,654	7,202	5,354
70% Exceedance	4,816	5,712	9,423	11,945	16,594	15,747	8,789	8,051	6,439	7,941	5,202	4,958
80% Exceedance	4,238	4,918	7,622	9,577	14,558	12,052	8,227	7,321	5,838	6,381	4,232	4,349
90% Exceedance	3,845	4,500	6,648	8,034	10,294	8,507	7,084	6,276	4,714	5,470	3,646	3,966
Full Simulation Period Average ^a	6,854	9,744	25,481	38,906	50,824	37,217	20,461	12,994	7,419	9,595	7,464	7,675
Wet Water Years (28%)	8,913	13,256	28,926	82,497	104,587	73,357	40,474	20,772	9,568	10,865	9,480	11,467
Above Normal Water Years (14%)	7,870	10,676	22,251	47,762	62,104	47,830	20,438	13,811	7,732	12,881	10,245	10,885
Below Normal Water Years (18%)	6,218	8,621	29,970	23,606	25,416	22,456	13,890	11,735	7,188	10,906	8,516	6,188
Dry Water Years (24%)	6,298	9,154	28,271	13,220	25,319	17,742	11,012	9,265	6,873	8,238	5,385	4,982
Critical Water Years (16%)	3,646	4,546	12,427	10,615	13,707	10,503	7,021	5,678	4,462	5,059	3,436	3,939

Table F.2.2-15-2c. Sacramento River Flow at Rio Vista, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	53	11	-108	-653	-106	-130	-31	-39	-427	-569	-257	468
20% Exceedance	56	108	113	404	-2,430	21	10	0	-70	-440	-238	-493
30% Exceedance	95	266	83	-171	-189	179	163	230	-284	-213	-7	350
40% Exceedance	79	104	-499	-20	395	53	-143	-139	-164	-372	11	129
50% Exceedance	-15	517	-265	169	858	51	-92	-223	-268	-32	-172	21
60% Exceedance	111	-33	-61	-265	-186	-347	-115	-129	-143	-488	513	-77
70% Exceedance	47	-32	-29	580	-115	41	-96	-216	-105	-216	-66	-36
80% Exceedance	-11	80	-227	-29	-109	357	298	-136	138	-434	7	-49
90% Exceedance	55	27	-190	27	-360	58	1,539	1,277	930	1,898	73	-25
Full Simulation Period Average ^a	5	141	56	114	81	-52	295	-35	13	-89	18	116
Wet Water Years (28%)	-15	160	-208	134	148	-26	-4	0	102	-244	-157	85
Above Normal Water Years (14%)	75	118	26	646	24	-1,082	-156	-33	-114	-395	-196	672
Below Normal Water Years (18%)	71	397	225	-137	120	127	-167	-499	34	-501	245	10
Dry Water Years (24%)	-78	-96	427	8	253	-57	-64	1	-452	-275	162	-64
Critical Water Years (16%)	25	201	-218	55	-285	610	2,273	368	639	1,189	45	70

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-3a. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average ^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-3b. Sacramento River Flow at Rio Vista, Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,394	16,179	67,242	92,434	124,270	82,704	41,217	24,854	8,423	13,321	10,420	12,689
20% Exceedance	7,950	9,965	41,247	67,348	76,037	57,989	31,272	18,787	7,624	12,446	9,926	10,952
30% Exceedance	7,363	8,977	22,923	35,178	54,329	41,219	22,503	13,727	7,327	11,822	9,534	9,699
40% Exceedance	6,781	8,335	16,984	27,664	44,542	28,539	17,514	11,814	7,026	10,658	9,226	9,054
50% Exceedance	6,048	8,050	13,745	22,815	29,154	21,817	13,880	10,374	6,868	9,953	8,294	6,379
60% Exceedance	5,189	7,023	11,202	16,840	21,281	17,975	11,550	9,167	6,695	8,848	7,158	5,632
70% Exceedance	4,660	5,609	9,459	11,940	16,600	15,761	10,040	8,547	6,167	7,769	5,212	4,963
80% Exceedance	4,245	4,962	7,636	9,578	14,569	11,949	8,654	7,830	5,815	6,283	4,335	4,425
90% Exceedance	3,955	4,500	6,537	8,017	10,588	8,674	7,839	6,700	4,564	5,332	3,506	4,076
Full Simulation Period Average ^a	6,871	9,834	25,585	38,945	50,917	37,213	21,422	13,555	7,304	9,560	7,471	7,711
Wet Water Years (28%)	8,895	13,254	28,933	82,548	104,599	73,135	40,621	20,886	9,542	10,895	9,500	11,448
Above Normal Water Years (14%)	7,859	10,786	22,336	48,061	62,221	47,766	22,014	14,973	7,527	12,574	10,184	10,828
Below Normal Water Years (18%)	6,302	8,648	29,983	23,638	25,508	22,486	15,917	12,687	6,916	10,953	8,501	6,396
Dry Water Years (24%)	6,320	9,568	28,626	13,229	25,552	17,916	12,185	9,789	6,781	8,181	5,426	4,988
Critical Water Years (16%)	3,671	4,348	12,442	10,455	13,713	10,626	7,357	6,111	4,414	5,086	3,452	4,007

Table F.2.2-15-3c. Sacramento River Flow at Rio Vista, Alt2woTUCPAILVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	6	400	-28	-524	-106	-486	79	-22	-695	-333	-141	569
20% Exceedance	132	208	154	772	-1,496	33	1,527	-3	-286	-447	-162	-395
30% Exceedance	27	313	109	-116	-40	407	1,841	279	-341	-262	-116	262
40% Exceedance	140	104	-491	-16	300	-4	1,053	748	-370	-304	16	439
50% Exceedance	41	519	-133	507	457	238	1,541	870	-335	39	-241	178
60% Exceedance	-6	-44	-30	-248	-200	-400	1,105	268	-209	-295	469	202
70% Exceedance	-109	-135	7	575	-109	54	1,154	280	-377	-388	-56	-31
80% Exceedance	-4	124	-213	-28	-98	254	725	374	115	-533	110	26
90% Exceedance	166	27	-302	10	-66	225	2,294	1,701	780	1,759	-67	85
Full Simulation Period Average ^a	22	231	161	152	174	-56	1,257	526	-102	-125	25	152
Wet Water Years (28%)	-34	158	-201	185	160	-248	142	114	76	-213	-138	66
Above Normal Water Years (14%)	64	228	111	946	141	-1,145	1,419	1,129	-319	-702	-257	615
Below Normal Water Years (18%)	155	424	238	-105	212	158	1,860	453	-238	-454	229	218
Dry Water Years (24%)	-57	317	782	16	485	118	1,109	526	-543	-332	202	-58
Critical Water Years (16%)	49	4	-203	-105	-279	733	2,609	800	591	1,216	61	139

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-4a. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average ^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-4b. Sacramento River Flow at Rio Vista, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,394	15,805	67,512	93,330	124,364	83,363	41,140	24,868	9,114	13,047	10,535	12,586
20% Exceedance	8,016	9,992	41,081	67,476	77,735	57,941	29,814	18,790	7,900	12,329	9,938	11,063
30% Exceedance	7,545	9,108	23,245	35,127	54,316	41,112	20,750	13,834	7,395	11,849	9,507	9,540
40% Exceedance	6,715	8,245	16,991	27,954	44,721	28,580	16,533	11,145	7,253	10,671	9,137	8,585
50% Exceedance	5,767	7,705	14,464	22,620	29,664	21,649	12,390	9,547	6,947	10,076	8,523	6,280
60% Exceedance	5,201	6,988	11,237	16,837	21,293	18,406	10,510	8,810	6,803	9,063	6,652	5,701
70% Exceedance	4,855	5,933	9,633	12,329	16,600	15,712	8,918	8,270	6,448	7,929	4,950	5,029
80% Exceedance	4,213	4,801	7,807	9,892	14,639	11,729	8,185	7,393	5,825	6,102	3,987	4,396
90% Exceedance	3,900	4,500	6,897	8,750	10,399	8,276	6,054	5,585	4,325	3,531	3,254	4,052
Full Simulation Period Average ^a	6,877	9,720	25,648	39,216	50,955	37,229	20,256	13,081	7,348	9,277	7,341	7,654
Wet Water Years (28%)	8,920	13,143	29,084	82,929	104,714	73,384	40,478	20,849	9,584	10,845	9,483	11,390
Above Normal Water Years (14%)	8,034	10,568	22,274	47,904	62,179	48,752	20,573	13,903	7,885	12,384	10,340	10,708
Below Normal Water Years (18%)	6,102	8,573	30,040	23,795	25,801	22,506	14,172	11,969	7,178	11,025	8,466	6,277
Dry Water Years (24%)	6,327	9,285	28,399	13,357	25,410	17,768	11,176	9,378	6,948	8,015	4,975	5,035
Critical Water Years (16%)	3,715	4,553	12,935	11,251	13,674	9,628	5,058	5,575	3,756	3,744	3,252	3,920

Table F.2.2-15-4c. Sacramento River Flow at Rio Vista, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	6	25	242	371	-12	173	1	-8	-4	-608	-26	466
20% Exceedance	198	234	-12	900	202	-15	69	0	-11	-564	-150	-284
30% Exceedance	209	444	430	-167	-53	300	88	387	-273	-235	-143	103
40% Exceedance	74	14	-483	274	479	37	71	79	-142	-292	-73	-30
50% Exceedance	-240	174	585	312	967	69	50	44	-256	162	-12	79
60% Exceedance	5	-78	4	-252	-188	31	66	-89	-101	-80	-37	270
70% Exceedance	86	189	181	964	-109	5	33	3	-96	-228	-318	35
80% Exceedance	-36	-37	-42	286	-29	35	256	-64	124	-714	-238	-2
90% Exceedance	110	27	59	744	-255	-174	509	586	541	-42	-318	61
Full Simulation Period Average ^a	27	117	223	424	213	-40	91	52	-58	-407	-105	95
Wet Water Years (28%)	-8	46	-50	566	275	1	0	77	118	-264	-155	8
Above Normal Water Years (14%)	239	10	49	788	99	-160	-22	59	39	-893	-101	495
Below Normal Water Years (18%)	-45	349	296	52	505	177	114	-265	24	-382	195	98
Dry Water Years (24%)	-50	35	555	145	344	-30	99	115	-376	-498	-249	-11
Critical Water Years (16%)	94	209	290	690	-318	-265	309	265	-68	-126	-139	51

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-5a. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-5b. Sacramento River Flow at Rio Vista, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	7,478	17,231	92,417	103,773	125,754	92,361	42,260	24,562	10,617	7,352	5,549	7,814
20% Exceedance	6,802	12,186	58,316	70,025	86,959	64,086	32,652	19,168	7,672	6,721	5,068	7,325
30% Exceedance	6,043	10,333	42,367	44,399	62,014	44,572	22,450	12,066	5,509	6,482	4,744	7,132
40% Exceedance	5,597	9,061	27,802	31,840	49,221	33,431	16,248	8,909	4,874	6,332	4,623	6,931
50% Exceedance	5,451	8,216	22,567	26,927	30,735	25,437	11,113	7,692	4,392	6,124	4,413	6,727
60% Exceedance	5,287	7,589	18,162	18,964	23,275	20,923	7,971	7,108	3,922	5,807	4,268	6,554
70% Exceedance	5,044	6,775	13,648	13,202	18,654	16,902	6,697	5,835	3,542	5,479	4,165	6,475
80% Exceedance	4,258	5,811	8,935	9,704	14,037	10,855	5,838	5,172	3,329	4,898	3,990	6,155
90% Exceedance	4,044	4,500	6,290	8,250	10,120	8,483	4,693	4,663	3,025	4,484	3,870	5,703
Full Simulation Period Average^a	6,106	10,784	36,704	42,680	54,410	39,618	19,902	11,966	6,077	5,985	4,540	6,873
Wet Water Years (28%)	6,404	14,089	45,377	89,248	107,601	73,399	40,589	20,387	9,799	6,087	4,956	7,497
Above Normal Water Years (14%)	6,314	10,923	35,947	53,665	69,321	53,673	20,619	12,977	6,508	6,855	4,802	7,088
Below Normal Water Years (18%)	6,045	9,448	41,952	27,487	29,926	26,193	14,144	10,298	5,000	6,364	4,453	7,124
Dry Water Years (24%)	6,950	11,267	37,661	14,567	29,293	21,927	9,896	7,267	3,981	5,878	4,257	6,641
Critical Water Years (16%)	4,062	5,302	13,441	10,834	13,499	9,843	4,558	5,270	3,544	4,779	4,102	5,655

Table F.2.2-15-5c. Sacramento River Flow at Rio Vista, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,910	1,452	25,146	10,814	1,378	9,170	1,122	-314	1,500	-6,303	-5,012	-4,306
20% Exceedance	-1,017	2,429	17,223	3,449	9,426	6,131	2,907	378	-238	-6,172	-5,020	-4,022
30% Exceedance	-1,293	1,669	19,552	9,105	7,646	3,759	1,788	-1,381	-2,159	-5,602	-4,906	-2,304
40% Exceedance	-1,045	830	10,327	4,160	4,979	4,888	-214	-2,157	-2,522	-4,630	-4,587	-1,683
50% Exceedance	-555	685	8,688	4,619	2,038	3,858	-1,227	-1,811	-2,811	-3,791	-4,123	526
60% Exceedance	91	522	6,930	1,876	1,793	2,548	-2,473	-1,791	-2,981	-3,336	-2,421	1,123
70% Exceedance	274	1,031	4,196	1,837	1,945	1,196	-2,188	-2,432	-3,002	-2,678	-1,103	1,481
80% Exceedance	9	973	1,085	98	-631	-839	-2,091	-2,285	-2,371	-1,918	-235	1,757
90% Exceedance	254	27	-548	243	-534	33	-852	-335	-759	911	297	1,712
Full Simulation Period Average^a	-744	1,181	11,279	3,888	3,668	2,349	-264	-1,063	-1,329	-3,700	-2,906	-686
Wet Water Years (28%)	-2,524	993	16,243	6,885	3,162	16	110	-385	332	-5,022	-4,682	-3,885
Above Normal Water Years (14%)	-1,481	365	13,722	6,549	7,241	4,761	24	-867	-1,338	-6,422	-5,639	-3,124
Below Normal Water Years (18%)	-102	1,224	12,208	3,745	4,630	3,864	87	-1,937	-2,154	-5,043	-3,818	945
Dry Water Years (24%)	573	2,017	9,817	1,355	4,226	4,129	-1,181	-1,996	-3,343	-2,635	-966	1,595
Critical Water Years (16%)	441	957	796	273	-493	-50	-190	-40	-280	910	711	1,787

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-6a. Sacramento River Flow at Rio Vista, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,303	20,477	77,782	104,102	121,974	92,592	60,564	32,580	13,325	2,169	2,873	7,585
20% Exceedance	7,383	12,925	58,695	78,003	89,330	71,802	49,005	25,703	7,925	1,623	1,922	6,589
30% Exceedance	5,785	10,075	32,757	52,315	70,217	55,610	36,037	17,237	4,741	1,166	1,575	6,223
40% Exceedance	4,803	6,853	23,576	35,167	55,202	43,761	28,389	12,079	3,296	956	1,314	5,623
50% Exceedance	3,838	5,462	19,208	32,236	38,896	35,122	21,044	9,788	2,549	812	1,106	4,375
60% Exceedance	3,109	4,791	13,308	21,454	29,957	28,978	16,574	7,316	1,564	662	926	3,345
70% Exceedance	2,434	3,853	9,215	14,458	24,522	24,902	12,793	6,242	950	506	696	3,182
80% Exceedance	1,624	2,489	7,172	10,839	18,184	17,244	11,231	3,997	573	286	609	2,688
90% Exceedance	838	1,504	4,868	8,463	11,997	11,928	7,597	1,678	65	113	398	2,244
Full Simulation Period Average ^a	5,153	9,889	30,866	45,419	57,776	46,943	29,463	14,419	4,625	1,120	1,360	4,845
Wet Water Years (28%)	6,191	12,287	31,532	90,542	107,664	80,450	54,114	26,812	9,969	1,786	2,105	7,166
Above Normal Water Years (14%)	5,714	10,582	28,660	60,011	72,219	62,085	33,063	16,701	5,130	741	1,474	5,558
Below Normal Water Years (18%)	4,701	9,119	37,232	31,418	34,206	34,925	24,288	11,037	3,351	785	941	4,696
Dry Water Years (24%)	6,386	11,335	34,301	17,081	35,490	29,281	17,333	8,274	1,612	794	860	3,521
Critical Water Years (16%)	1,227	3,331	18,690	11,945	17,779	15,072	7,189	3,758	784	1,153	1,181	2,311

Table F.2.2-15-6b. Sacramento River Flow at Rio Vista, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,391	15,799	67,216	93,309	124,346	83,302	41,072	24,868	9,114	13,048	10,537	12,586
20% Exceedance	7,938	9,919	41,192	66,901	76,306	57,939	29,805	18,786	7,900	12,330	9,919	11,063
30% Exceedance	7,467	9,078	22,923	35,218	54,077	41,027	20,735	13,833	7,392	11,846	9,509	9,539
40% Exceedance	6,663	8,245	16,981	27,668	45,190	28,742	16,584	11,013	7,244	10,670	9,136	8,552
50% Exceedance	5,748	7,671	13,909	22,559	29,661	21,637	12,385	9,313	6,949	10,055	8,519	6,203
60% Exceedance	5,262	6,987	11,230	16,829	21,288	18,393	10,510	8,767	6,800	8,929	6,475	5,507
70% Exceedance	4,849	5,813	9,628	12,388	16,599	15,712	8,913	8,251	6,447	7,793	4,784	4,965
80% Exceedance	4,168	4,909	7,676	9,746	14,553	12,054	8,394	7,394	5,968	5,895	3,938	4,409
90% Exceedance	3,886	4,500	6,641	8,014	10,616	8,504	7,266	6,282	4,707	4,911	3,311	3,955
Full Simulation Period Average ^a	6,838	9,729	25,589	39,028	50,925	37,237	20,556	13,075	7,466	9,419	7,270	7,612
Wet Water Years (28%)	8,918	13,143	29,075	82,789	104,657	73,357	40,466	20,846	9,583	10,853	9,482	11,391
Above Normal Water Years (14%)	7,870	10,563	22,265	47,627	62,087	47,845	20,525	13,893	7,883	12,389	10,298	10,691
Below Normal Water Years (18%)	6,065	8,557	30,012	23,698	25,659	22,481	14,108	11,876	7,212	11,000	8,103	6,144
Dry Water Years (24%)	6,329	9,274	28,392	13,365	25,287	17,773	11,171	9,368	6,948	7,988	4,949	5,033
Critical Water Years (16%)	3,665	4,658	12,614	10,660	14,009	10,543	7,072	5,672	4,458	4,677	3,293	3,827

Table F.2.2-15-6c. Sacramento River Flow at Rio Vista, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	88	-4,678	-10,566	-10,793	2,372	-9,290	-19,492	-7,712	-4,212	10,879	7,664	5,001
20% Exceedance	555	-3,006	-17,503	-11,102	-13,024	-13,863	-19,200	-6,917	-25	10,707	7,997	4,474
30% Exceedance	1,681	-997	-9,834	-17,096	-16,140	-14,583	-15,302	-3,404	2,651	10,680	7,934	3,316
40% Exceedance	1,860	1,392	-6,594	-7,498	-10,012	-15,018	-11,805	-1,066	3,948	9,714	7,822	2,930
50% Exceedance	1,911	2,209	-5,299	-9,676	-9,234	-13,485	-8,659	-474	4,400	9,243	7,413	1,827
60% Exceedance	2,153	2,196	-2,077	-4,625	-8,668	-10,585	-6,064	1,451	5,236	8,268	5,549	2,162
70% Exceedance	2,415	1,960	413	-2,070	-7,923	-9,191	-3,880	2,009	5,497	7,286	4,088	1,782
80% Exceedance	2,544	2,420	504	-1,093	-3,631	-5,189	-2,837	3,397	5,395	5,609	3,329	1,721
90% Exceedance	3,048	2,996	1,773	-449	-1,381	-3,424	-331	4,604	4,642	4,798	2,913	1,711
Full Simulation Period Average ^a	1,684	-160	-5,276	-6,392	-6,851	-9,706	-8,907	-1,344	2,841	8,298	5,910	2,768
Wet Water Years (28%)	2,727	856	-2,457	-7,753	-3,007	-7,093	-13,648	-5,966	-386	9,067	7,377	4,225
Above Normal Water Years (14%)	2,156	-19	-6,395	-12,384	-10,132	-14,240	-12,538	-2,808	2,752	11,648	8,825	5,133
Below Normal Water Years (18%)	1,364	-562	-7,221	-7,720	-8,547	-12,444	-10,180	838	3,861	10,215	7,163	1,448
Dry Water Years (24%)	-57	-2,061	-5,909	-3,716	-10,203	-11,508	-6,161	1,095	5,336	7,194	4,090	1,512
Critical Water Years (16%)	2,437	1,327	-6,076	-1,286	-3,770	-4,529	-117	1,914	3,674	3,523	2,112	1,516

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-7a. Sacramento River Flow at Rio Vista, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,303	20,477	77,782	104,102	121,974	92,592	60,564	32,580	13,325	2,169	2,873	7,585
20% Exceedance	7,383	12,925	58,695	78,003	89,330	71,802	49,005	25,703	7,925	1,623	1,922	6,589
30% Exceedance	5,785	10,075	32,757	52,315	70,217	55,610	36,037	17,237	4,741	1,166	1,575	6,223
40% Exceedance	4,803	6,853	23,576	35,167	55,202	43,761	28,389	12,079	3,296	956	1,314	5,623
50% Exceedance	3,838	5,462	19,208	32,236	38,896	35,122	21,044	9,788	2,549	812	1,106	4,375
60% Exceedance	3,109	4,791	13,308	21,454	29,957	28,978	16,574	7,316	1,564	662	926	3,345
70% Exceedance	2,434	3,853	9,215	14,458	24,522	24,902	12,793	6,242	950	506	696	3,182
80% Exceedance	1,624	2,489	7,172	10,839	18,184	17,244	11,231	3,997	573	286	609	2,688
90% Exceedance	838	1,504	4,868	8,463	11,997	11,928	7,597	1,678	65	113	398	2,244
Full Simulation Period Average ^a	5,153	9,889	30,866	45,419	57,776	46,943	29,463	14,419	4,625	1,120	1,360	4,845
Wet Water Years (28%)	6,191	12,287	31,532	90,542	107,664	80,450	54,114	26,812	9,969	1,786	2,105	7,166
Above Normal Water Years (14%)	5,714	10,582	28,660	60,011	72,219	62,085	33,063	16,701	5,130	741	1,474	5,558
Below Normal Water Years (18%)	4,701	9,119	37,232	31,418	34,206	34,925	24,288	11,037	3,351	785	941	4,696
Dry Water Years (24%)	6,386	11,335	34,301	17,081	35,490	29,281	17,333	8,274	1,612	794	860	3,521
Critical Water Years (16%)	1,227	3,331	18,690	11,945	17,779	15,072	7,189	3,758	784	1,153	1,181	2,311

Table F.2.2-15-7b. Sacramento River Flow at Rio Vista, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,441	15,790	67,162	92,306	124,270	83,061	41,107	24,837	8,691	13,085	10,304	12,588
20% Exceedance	7,874	9,865	41,206	66,980	75,103	57,976	29,755	18,790	7,841	12,453	9,850	10,854
30% Exceedance	7,431	8,930	22,898	35,123	54,179	40,992	20,825	13,678	7,385	11,871	9,642	9,786
40% Exceedance	6,721	8,335	16,975	27,660	44,638	28,596	16,319	10,927	7,232	10,591	9,221	8,743
50% Exceedance	5,991	8,048	13,614	22,476	29,555	21,630	12,248	9,280	6,936	9,882	8,363	6,222
60% Exceedance	5,307	7,033	11,171	16,824	21,295	18,028	10,329	8,770	6,760	8,654	7,202	5,354
70% Exceedance	4,816	5,712	9,423	11,945	16,594	15,747	8,789	8,051	6,439	7,941	5,202	4,958
80% Exceedance	4,238	4,918	7,622	9,577	14,558	12,052	8,227	7,321	5,838	6,381	4,232	4,349
90% Exceedance	3,845	4,500	6,648	8,034	10,294	8,507	7,084	6,276	4,714	5,470	3,646	3,966
Full Simulation Period Average ^a	6,854	9,744	25,481	38,906	50,824	37,217	20,461	12,994	7,419	9,595	7,464	7,675
Wet Water Years (28%)	8,913	13,256	28,926	82,497	104,587	73,357	40,474	20,772	9,568	10,865	9,480	11,467
Above Normal Water Years (14%)	7,870	10,676	22,251	47,762	62,104	47,830	20,438	13,811	7,732	12,881	10,245	10,885
Below Normal Water Years (18%)	6,218	8,621	29,970	23,606	25,416	22,456	13,890	11,735	7,188	10,906	8,516	6,188
Dry Water Years (24%)	6,298	9,154	28,271	13,220	25,319	17,742	11,012	9,265	6,873	8,238	5,385	4,982
Critical Water Years (16%)	3,646	4,546	12,427	10,615	13,707	10,503	7,021	5,678	4,462	5,059	3,436	3,939

Table F.2.2-15-7c. Sacramento River Flow at Rio Vista, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	138	-4,687	-10,620	-11,796	2,296	-9,531	-19,457	-7,742	-4,634	10,916	7,431	5,003
20% Exceedance	491	-3,060	-17,489	-11,023	-14,226	-13,826	-19,250	-6,913	-84	10,829	7,928	4,265
30% Exceedance	1,646	-1,146	-9,859	-17,192	-16,038	-14,618	-15,211	-3,560	2,644	10,705	8,068	3,563
40% Exceedance	1,918	1,482	-6,600	-7,507	-10,564	-15,165	-12,071	-1,152	3,936	9,635	7,907	3,120
50% Exceedance	2,153	2,586	-5,594	-9,759	-9,341	-13,492	-8,796	-507	4,386	9,070	7,257	1,847
60% Exceedance	2,198	2,242	-2,137	-4,630	-8,661	-10,949	-6,245	1,454	5,196	7,993	6,276	2,008
70% Exceedance	2,382	1,859	208	-2,513	-7,928	-9,156	-4,004	1,809	5,489	7,434	4,506	1,775
80% Exceedance	2,614	2,428	450	-1,262	-3,626	-5,192	-3,005	3,324	5,265	6,095	3,623	1,661
90% Exceedance	3,006	2,996	1,781	-429	-1,703	-3,420	-513	4,598	4,648	5,357	3,248	1,722
Full Simulation Period Average ^a	1,701	-145	-5,385	-6,513	-6,952	-9,727	-9,002	-1,425	2,794	8,475	6,104	2,830
Wet Water Years (28%)	2,723	969	-2,606	-8,045	-3,077	-7,093	-13,640	-6,040	-401	9,079	7,375	4,302
Above Normal Water Years (14%)	2,156	94	-6,409	-12,250	-10,115	-14,255	-12,624	-2,891	2,601	12,140	8,771	5,327
Below Normal Water Years (18%)	1,517	-498	-7,263	-7,813	-8,790	-12,469	-10,398	698	3,837	10,121	7,576	1,492
Dry Water Years (24%)	-88	-2,181	-6,030	-3,861	-10,171	-11,540	-6,321	991	5,260	7,444	4,526	1,461
Critical Water Years (16%)	2,419	1,215	-6,263	-1,330	-4,072	-4,569	-168	1,920	3,678	3,905	2,255	1,628

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-8a. Sacramento River Flow at Rio Vista, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,303	20,477	77,782	104,102	121,974	92,592	60,564	32,580	13,325	2,169	2,873	7,585
20% Exceedance	7,383	12,925	58,695	78,003	89,330	71,802	49,005	25,703	7,925	1,623	1,922	6,589
30% Exceedance	5,785	10,075	32,757	52,315	70,217	55,610	36,037	17,237	4,741	1,166	1,575	6,223
40% Exceedance	4,803	6,853	23,576	35,167	55,202	43,761	28,389	12,079	3,296	956	1,314	5,623
50% Exceedance	3,838	5,462	19,208	32,236	38,896	35,122	21,044	9,788	2,549	812	1,106	4,375
60% Exceedance	3,109	4,791	13,308	21,454	29,957	28,978	16,574	7,316	1,564	662	926	3,345
70% Exceedance	2,434	3,853	9,215	14,458	24,522	24,902	12,793	6,242	950	506	696	3,182
80% Exceedance	1,624	2,489	7,172	10,839	18,184	17,244	11,231	3,997	573	286	609	2,688
90% Exceedance	838	1,504	4,868	8,463	11,997	11,928	7,597	1,678	65	113	398	2,244
Full Simulation Period Average ^a	5,153	9,889	30,866	45,419	57,776	46,943	29,463	14,419	4,625	1,120	1,360	4,845
Wet Water Years (28%)	6,191	12,287	31,532	90,542	107,664	80,450	54,114	26,812	9,969	1,786	2,105	7,166
Above Normal Water Years (14%)	5,714	10,582	28,660	60,011	72,219	62,085	33,063	16,701	5,130	741	1,474	5,558
Below Normal Water Years (18%)	4,701	9,119	37,232	31,418	34,206	34,925	24,288	11,037	3,351	785	941	4,696
Dry Water Years (24%)	6,386	11,335	34,301	17,081	35,490	29,281	17,333	8,274	1,612	794	860	3,521
Critical Water Years (16%)	1,227	3,331	18,690	11,945	17,779	15,072	7,189	3,758	784	1,153	1,181	2,311

Table F.2.2-15-8b. Sacramento River Flow at Rio Vista, Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,394	16,179	67,242	92,434	124,270	82,704	41,217	24,854	8,423	13,321	10,420	12,689
20% Exceedance	7,950	9,965	41,247	67,348	76,037	57,989	31,272	18,787	7,624	12,446	9,926	10,952
30% Exceedance	7,363	8,977	22,923	35,178	54,329	41,219	22,503	13,727	7,327	11,822	9,534	9,699
40% Exceedance	6,781	8,335	16,984	27,664	44,542	28,539	17,514	11,814	7,026	10,658	9,226	9,054
50% Exceedance	6,048	8,050	13,745	22,815	29,154	21,817	13,880	10,374	6,868	9,953	8,294	6,379
60% Exceedance	5,189	7,023	11,202	16,840	21,281	17,975	11,550	9,167	6,695	8,848	7,158	5,632
70% Exceedance	4,660	5,609	9,459	11,940	16,600	15,761	10,040	8,547	6,167	7,769	5,212	4,963
80% Exceedance	4,245	4,962	7,636	9,578	14,569	11,949	8,654	7,830	5,815	6,283	4,335	4,425
90% Exceedance	3,955	4,500	6,537	8,017	10,588	8,674	7,839	6,700	4,564	5,332	3,506	4,076
Full Simulation Period Average ^a	6,871	9,834	25,585	38,945	50,917	37,213	21,422	13,555	7,304	9,560	7,471	7,711
Wet Water Years (28%)	8,895	13,254	28,933	82,548	104,599	73,135	40,621	20,886	9,542	10,895	9,500	11,448
Above Normal Water Years (14%)	7,859	10,786	22,336	48,061	62,221	47,766	22,014	14,973	7,527	12,574	10,184	10,828
Below Normal Water Years (18%)	6,302	8,648	29,983	23,638	25,508	22,486	15,917	12,687	6,916	10,953	8,501	6,396
Dry Water Years (24%)	6,320	9,568	28,626	13,229	25,552	17,916	12,185	9,789	6,781	8,181	5,426	4,988
Critical Water Years (16%)	3,671	4,348	12,442	10,455	13,713	10,626	7,357	6,111	4,414	5,086	3,452	4,007

Table F.2.2-15-8c. Sacramento River Flow at Rio Vista, Alt2woTUCPAILVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	91	-4,298	-10,540	-11,668	2,296	-9,887	-19,347	-7,726	-4,902	11,152	7,547	5,104
20% Exceedance	568	-2,960	-17,448	-10,655	-13,293	-13,813	-17,734	-6,916	-300	10,823	8,004	4,363
30% Exceedance	1,578	-1,098	-9,834	-17,137	-15,888	-14,391	-13,534	-3,511	2,587	10,657	7,959	3,476
40% Exceedance	1,979	1,482	-6,592	-7,503	-10,660	-15,221	-10,875	-265	3,730	9,702	7,912	3,431
50% Exceedance	2,210	2,588	-5,462	-9,421	-9,742	-13,305	-7,163	586	4,319	9,142	7,188	2,004
60% Exceedance	2,080	2,231	-2,106	-4,614	-8,676	-11,003	-5,024	1,851	5,131	8,186	6,232	2,287
70% Exceedance	2,226	1,756	244	-2,517	-7,922	-9,142	-2,753	2,305	5,217	7,262	4,516	1,781
80% Exceedance	2,621	2,473	464	-1,261	-3,615	-5,295	-2,577	3,833	5,242	5,997	3,727	1,737
90% Exceedance	3,117	2,996	1,669	-447	-1,409	-3,254	241	5,022	4,498	5,219	3,108	1,831
Full Simulation Period Average ^a	1,718	-55	-5,280	-6,475	-6,860	-9,731	-8,040	-864	2,679	8,439	6,110	2,867
Wet Water Years (28%)	2,704	967	-2,599	-7,994	-3,065	-7,315	-13,493	-5,926	-427	9,109	7,395	4,283
Above Normal Water Years (14%)	2,145	204	-6,324	-11,950	-9,998	-14,319	-11,049	-1,728	2,396	11,833	8,711	5,270
Below Normal Water Years (18%)	1,601	-471	-7,250	-7,781	-8,699	-12,439	-8,371	1,650	3,565	10,168	7,560	1,700
Dry Water Years (24%)	-66	-1,767	-5,675	-3,852	-9,939	-11,365	-5,147	1,516	5,169	7,387	4,566	1,467
Critical Water Years (16%)	2,443	1,017	-6,248	-1,490	-4,066	-4,446	169	2,353	3,630	3,932	2,271	1,697

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-9a. Sacramento River Flow at Rio Vista, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,303	20,477	77,782	104,102	121,974	92,592	60,564	32,580	13,325	2,169	2,873	7,585
20% Exceedance	7,383	12,925	58,695	78,003	89,330	71,802	49,005	25,703	7,925	1,623	1,922	6,589
30% Exceedance	5,785	10,075	32,757	52,315	70,217	55,610	36,037	17,237	4,741	1,166	1,575	6,223
40% Exceedance	4,803	6,853	23,576	35,167	55,202	43,761	28,389	12,079	3,296	956	1,314	5,623
50% Exceedance	3,838	5,462	19,208	32,236	38,896	35,122	21,044	9,788	2,549	812	1,106	4,375
60% Exceedance	3,109	4,791	13,308	21,454	29,957	28,978	16,574	7,316	1,564	662	926	3,345
70% Exceedance	2,434	3,853	9,215	14,458	24,522	24,902	12,793	6,242	950	506	696	3,182
80% Exceedance	1,624	2,489	7,172	10,839	18,184	17,244	11,231	3,997	573	286	609	2,688
90% Exceedance	838	1,504	4,868	8,463	11,997	11,928	7,597	1,678	65	113	398	2,244
Full Simulation Period Average ^a	5,153	9,889	30,866	45,419	57,776	46,943	29,463	14,419	4,625	1,120	1,360	4,845
Wet Water Years (28%)	6,191	12,287	31,532	90,542	107,664	80,450	54,114	26,812	9,969	1,786	2,105	7,166
Above Normal Water Years (14%)	5,714	10,582	28,660	60,011	72,219	62,085	33,063	16,701	5,130	741	1,474	5,558
Below Normal Water Years (18%)	4,701	9,119	37,232	31,418	34,206	34,925	24,288	11,037	3,351	785	941	4,696
Dry Water Years (24%)	6,386	11,335	34,301	17,081	35,490	29,281	17,333	8,274	1,612	794	860	3,521
Critical Water Years (16%)	1,227	3,331	18,690	11,945	17,779	15,072	7,189	3,758	784	1,153	1,181	2,311

Table F.2.2-15-9b. Sacramento River Flow at Rio Vista, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,394	15,805	67,512	93,330	124,364	83,363	41,140	24,868	9,114	13,047	10,535	12,586
20% Exceedance	8,016	9,992	41,081	67,476	77,735	57,941	29,814	18,790	7,900	12,329	9,938	11,063
30% Exceedance	7,545	9,108	23,245	35,127	54,316	41,112	20,750	13,834	7,395	11,849	9,507	9,540
40% Exceedance	6,715	8,245	16,991	27,954	44,721	28,580	16,533	11,145	7,253	10,671	9,137	8,585
50% Exceedance	5,767	7,705	14,464	22,620	29,664	21,649	12,390	9,547	6,947	10,076	8,523	6,280
60% Exceedance	5,201	6,988	11,237	16,837	21,293	18,406	10,510	8,810	6,803	9,063	6,652	5,701
70% Exceedance	4,855	5,933	9,633	12,329	16,600	15,712	8,918	8,270	6,448	7,929	4,950	5,029
80% Exceedance	4,213	4,801	7,807	9,892	14,639	11,729	8,185	7,393	5,825	6,102	3,987	4,396
90% Exceedance	3,900	4,500	6,897	8,750	10,399	8,276	6,054	5,585	4,325	3,531	3,254	4,052
Full Simulation Period Average ^a	6,877	9,720	25,648	39,216	50,955	37,229	20,256	13,081	7,348	9,277	7,341	7,654
Wet Water Years (28%)	8,920	13,143	29,084	82,929	104,714	73,384	40,478	20,849	9,584	10,845	9,483	11,390
Above Normal Water Years (14%)	8,034	10,568	22,274	47,904	62,179	48,752	20,573	13,903	7,885	12,384	10,340	10,708
Below Normal Water Years (18%)	6,102	8,573	30,040	23,795	25,801	22,506	14,172	11,969	7,178	11,025	8,466	6,277
Dry Water Years (24%)	6,327	9,285	28,399	13,357	25,410	17,768	11,176	9,378	6,948	8,015	4,975	5,035
Critical Water Years (16%)	3,715	4,553	12,935	11,251	13,674	9,628	5,058	5,575	3,756	3,744	3,252	3,920

Table F.2.2-15-9c. Sacramento River Flow at Rio Vista, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	91	-4,672	-10,270	-10,773	2,390	-9,228	-19,425	-7,711	-4,212	10,878	7,662	5,001
20% Exceedance	634	-2,933	-17,614	-10,527	-11,595	-13,861	-19,191	-6,913	-25	10,706	8,016	4,474
30% Exceedance	1,760	-967	-9,512	-17,188	-15,901	-14,498	-15,287	-3,403	2,654	10,683	7,932	3,316
40% Exceedance	1,913	1,392	-6,584	-7,213	-10,481	-15,181	-11,856	-934	3,958	9,715	7,823	2,962
50% Exceedance	1,929	2,243	-4,744	-9,616	-9,232	-13,474	-8,654	-240	4,398	9,265	7,417	1,904
60% Exceedance	2,091	2,197	-2,071	-4,617	-8,664	-10,572	-6,064	1,494	5,239	8,402	5,726	2,356
70% Exceedance	2,421	2,080	418	-2,129	-7,922	-9,191	-3,875	2,028	5,498	7,423	4,254	1,847
80% Exceedance	2,589	2,312	635	-947	-3,546	-5,514	-3,046	3,396	5,252	5,816	3,378	1,708
90% Exceedance	3,061	2,996	2,030	287	-1,598	-3,652	-1,544	3,907	4,259	3,418	2,857	1,807
Full Simulation Period Average ^a	1,723	-169	-5,218	-6,204	-6,821	-9,715	-9,206	-1,338	2,723	8,157	5,980	2,809
Wet Water Years (28%)	2,730	856	-2,448	-7,613	-2,950	-7,066	-13,636	-5,963	-385	9,059	7,377	4,224
Above Normal Water Years (14%)	2,320	-14	-6,386	-12,108	-10,040	-13,333	-12,490	-2,799	2,755	11,643	8,866	5,150
Below Normal Water Years (18%)	1,401	-546	-7,192	-7,623	-8,406	-12,419	-10,116	932	3,827	10,240	7,526	1,580
Dry Water Years (24%)	-59	-2,050	-5,903	-3,724	-10,080	-11,513	-6,157	1,104	5,336	7,220	4,115	1,514
Critical Water Years (16%)	2,488	1,222	-5,755	-694	-4,105	-5,444	-2,131	1,817	2,972	2,590	2,071	1,609

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-15-10a. Sacramento River Flow at Rio Vista, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,303	20,477	77,782	104,102	121,974	92,592	60,564	32,580	13,325	2,169	2,873	7,585
20% Exceedance	7,383	12,925	58,695	78,003	89,330	71,802	49,005	25,703	7,925	1,623	1,922	6,589
30% Exceedance	5,785	10,075	32,757	52,315	70,217	55,610	36,037	17,237	4,741	1,166	1,575	6,223
40% Exceedance	4,803	6,853	23,576	35,167	55,202	43,761	28,389	12,079	3,296	956	1,314	5,623
50% Exceedance	3,838	5,462	19,208	32,236	38,896	35,122	21,044	9,788	2,549	812	1,106	4,375
60% Exceedance	3,109	4,791	13,308	21,454	29,957	28,978	16,574	7,316	1,564	662	926	3,345
70% Exceedance	2,434	3,853	9,215	14,458	24,522	24,902	12,793	6,242	950	506	696	3,182
80% Exceedance	1,624	2,489	7,172	10,839	18,184	17,244	11,231	3,997	573	286	609	2,688
90% Exceedance	838	1,504	4,868	8,463	11,997	11,928	7,597	1,678	65	113	398	2,244
Full Simulation Period Average^a	5,153	9,889	30,866	45,419	57,776	46,943	29,463	14,419	4,625	1,120	1,360	4,845
Wet Water Years (28%)	6,191	12,287	31,532	90,542	107,664	80,450	54,114	26,812	9,969	1,786	2,105	7,166
Above Normal Water Years (14%)	5,714	10,582	28,660	60,011	72,219	62,085	33,063	16,701	5,130	741	1,474	5,558
Below Normal Water Years (18%)	4,701	9,119	37,232	31,418	34,206	34,925	24,288	11,037	3,351	785	941	4,696
Dry Water Years (24%)	6,386	11,335	34,301	17,081	35,490	29,281	17,333	8,274	1,612	794	860	3,521
Critical Water Years (16%)	1,227	3,331	18,690	11,945	17,779	15,072	7,189	3,758	784	1,153	1,181	2,311

Table F.2.2-15-10b. Sacramento River Flow at Rio Vista, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	9,388	15,779	67,270	92,959	124,376	83,191	41,138	24,876	9,118	13,654	10,561	12,120
20% Exceedance	7,818	9,757	41,093	66,576	77,533	57,955	29,745	18,790	7,910	12,893	10,088	11,347
30% Exceedance	7,336	8,664	22,814	35,294	54,368	40,812	20,662	13,447	7,668	12,084	9,650	9,437
40% Exceedance	6,642	8,231	17,474	27,680	44,242	28,543	16,462	11,066	7,396	10,962	9,211	8,615
50% Exceedance	6,006	7,531	13,879	22,308	28,697	21,579	12,340	9,503	7,203	9,914	8,535	6,201
60% Exceedance	5,196	7,066	11,232	17,089	21,481	18,375	10,445	8,899	6,903	9,143	6,689	5,431
70% Exceedance	4,769	5,744	9,452	11,365	16,709	15,706	8,885	8,267	6,544	8,157	5,268	4,994
80% Exceedance	4,249	4,838	7,849	9,606	14,667	11,695	7,929	7,457	5,701	6,816	4,225	4,398
90% Exceedance	3,790	4,473	6,839	8,006	10,654	8,449	5,545	4,999	3,784	3,572	3,573	3,991
Full Simulation Period Average^a	6,849	9,603	25,425	38,792	50,742	37,269	20,166	13,029	7,406	9,685	7,446	7,559
Wet Water Years (28%)	8,929	13,097	29,134	82,363	104,439	73,383	40,479	20,772	9,466	11,109	9,638	11,382
Above Normal Water Years (14%)	7,795	10,558	22,225	47,116	62,080	48,912	20,595	13,844	7,846	13,276	10,441	10,213
Below Normal Water Years (18%)	6,147	8,224	29,745	23,742	25,296	22,329	14,058	12,234	7,154	11,407	8,272	6,178
Dry Water Years (24%)	6,377	9,250	27,844	13,212	25,067	17,799	11,076	9,263	7,324	8,513	5,224	5,046
Critical Water Years (16%)	3,621	4,344	12,645	10,561	13,992	9,893	4,748	5,310	3,824	3,870	3,391	3,869

Table F.2.2-15-10c. Sacramento River Flow at Rio Vista, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	85	-4,698	-10,512	-11,143	2,402	-9,401	-19,426	-7,703	-4,208	11,485	7,688	4,535
20% Exceedance	435	-3,168	-17,602	-11,427	-11,797	-13,847	-19,260	-6,913	-14	11,270	8,166	4,758
30% Exceedance	1,551	-1,411	-9,943	-17,021	-15,849	-14,798	-15,375	-3,790	2,928	10,918	8,075	3,213
40% Exceedance	1,839	1,378	-6,101	-7,487	-10,960	-15,218	-11,927	-1,013	4,100	10,006	7,896	2,992
50% Exceedance	2,169	2,069	-5,329	-9,928	-10,199	-13,543	-8,704	-284	4,654	9,103	7,429	1,825
60% Exceedance	2,086	2,275	-2,076	-4,365	-8,475	-10,602	-6,129	1,583	5,339	8,481	5,763	2,085
70% Exceedance	2,335	1,891	237	-3,093	-7,813	-9,196	-3,908	2,026	5,594	7,650	4,572	1,812
80% Exceedance	2,625	2,349	677	-1,233	-3,517	-5,549	-3,302	3,460	5,128	6,530	3,616	1,710
90% Exceedance	2,951	2,969	1,971	-457	-1,343	-3,478	-2,053	3,321	3,719	3,459	3,175	1,747
Full Simulation Period Average^a	1,696	-286	-5,441	-6,627	-7,034	-9,675	-9,297	-1,390	2,781	8,564	6,085	2,714
Wet Water Years (28%)	2,738	810	-2,398	-8,179	-3,225	-7,067	-13,635	-6,040	-503	9,322	7,533	4,217
Above Normal Water Years (14%)	2,081	-24	-6,435	-12,896	-10,139	-13,174	-12,468	-2,858	2,715	12,535	8,967	4,655
Below Normal Water Years (18%)	1,446	-895	-7,488	-7,676	-8,910	-12,596	-10,230	1,197	3,803	10,622	7,331	1,482
Dry Water Years (24%)	-9	-2,085	-6,457	-3,869	-10,424	-11,483	-6,256	990	5,712	7,719	4,364	1,525
Critical Water Years (16%)	2,394	1,013	-6,045	-1,384	-3,787	-5,179	-2,441	1,552	3,040	2,716	2,210	1,558

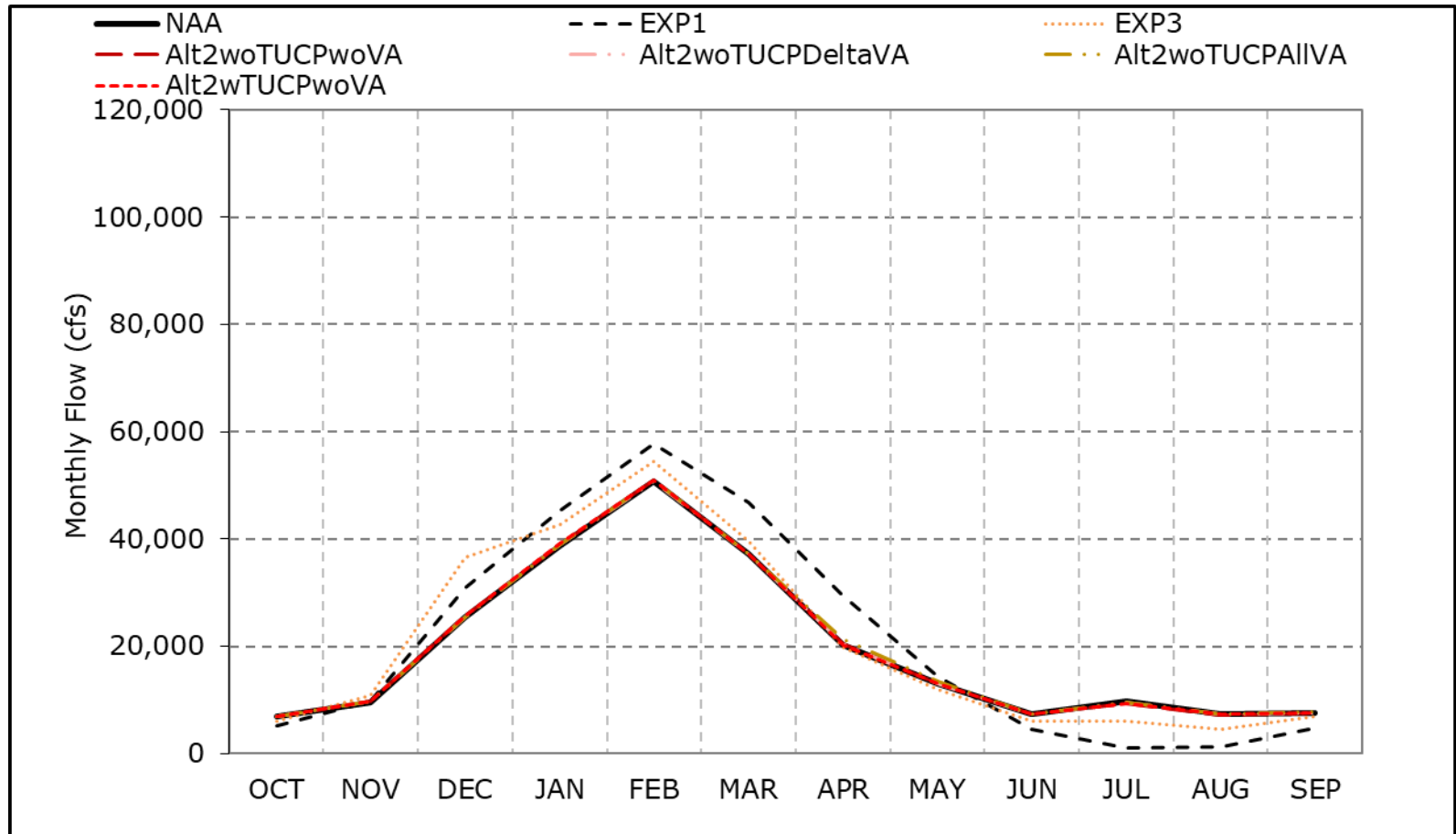
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-15-1. Sacramento River Flow at Rio Vista, Long-Term Average Flow

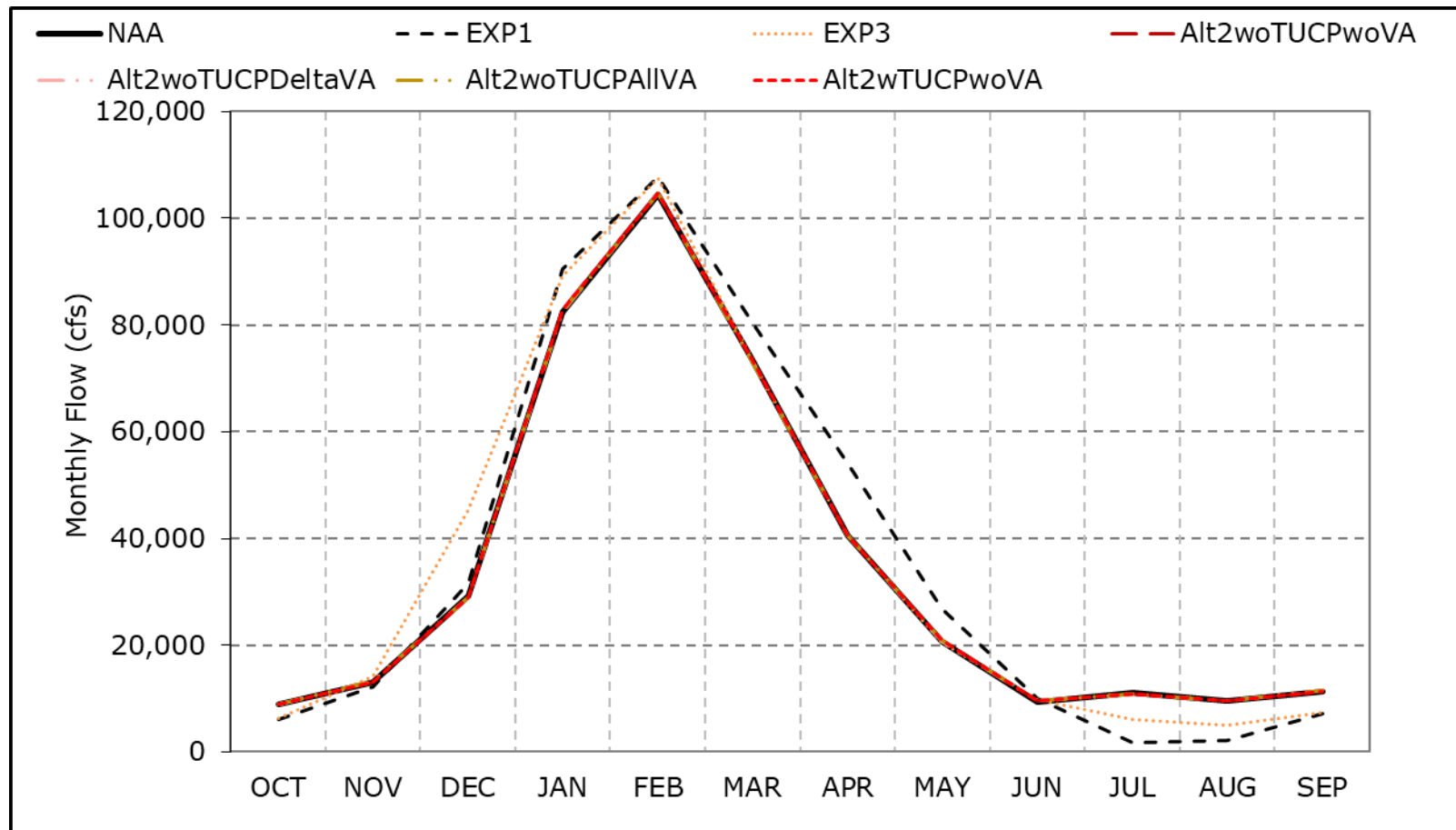


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-2. Sacramento River Flow at Rio Vista, Wet Year Average Flow

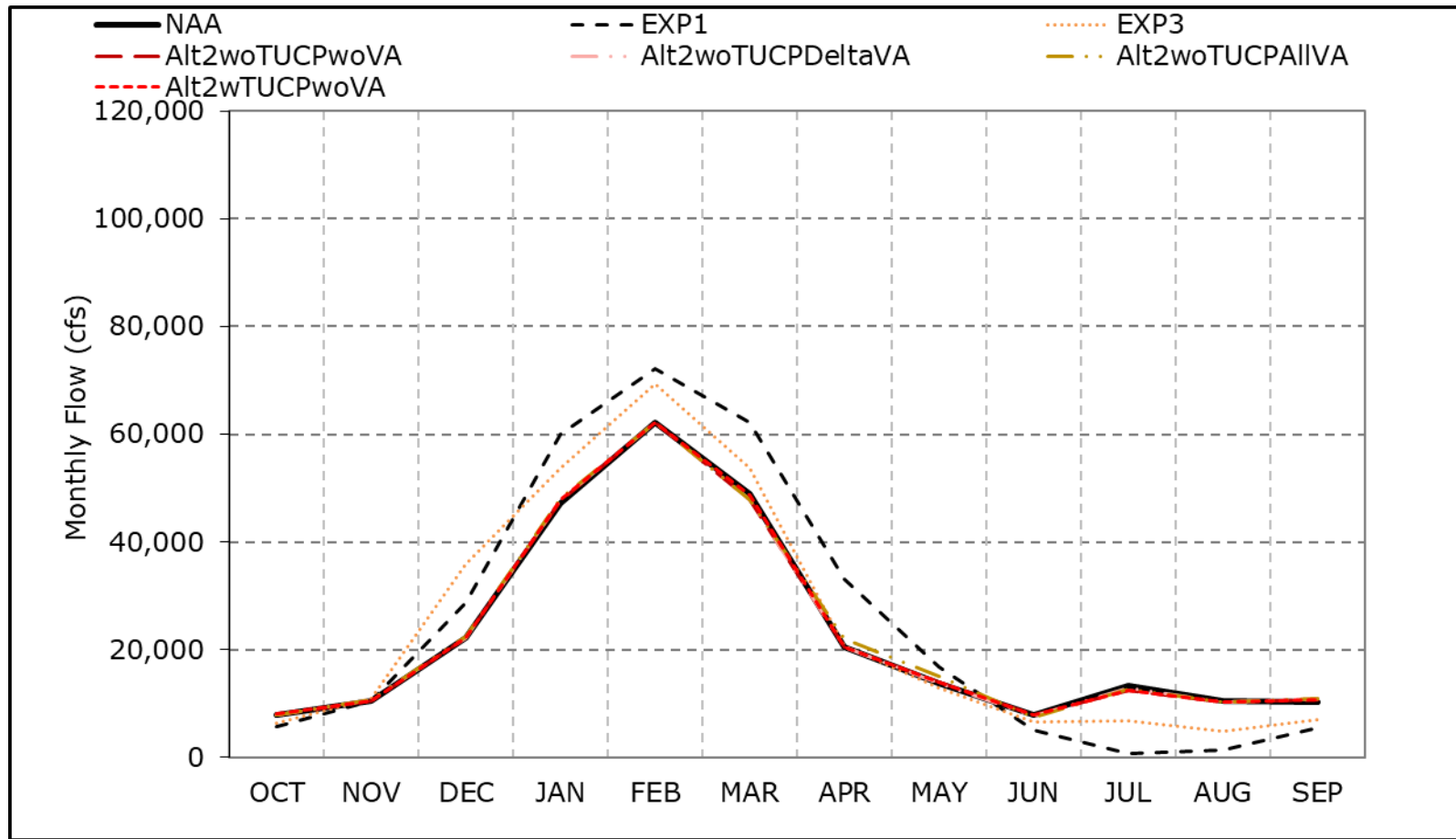


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-3. Sacramento River Flow at Rio Vista, Above Normal Year Average Flow

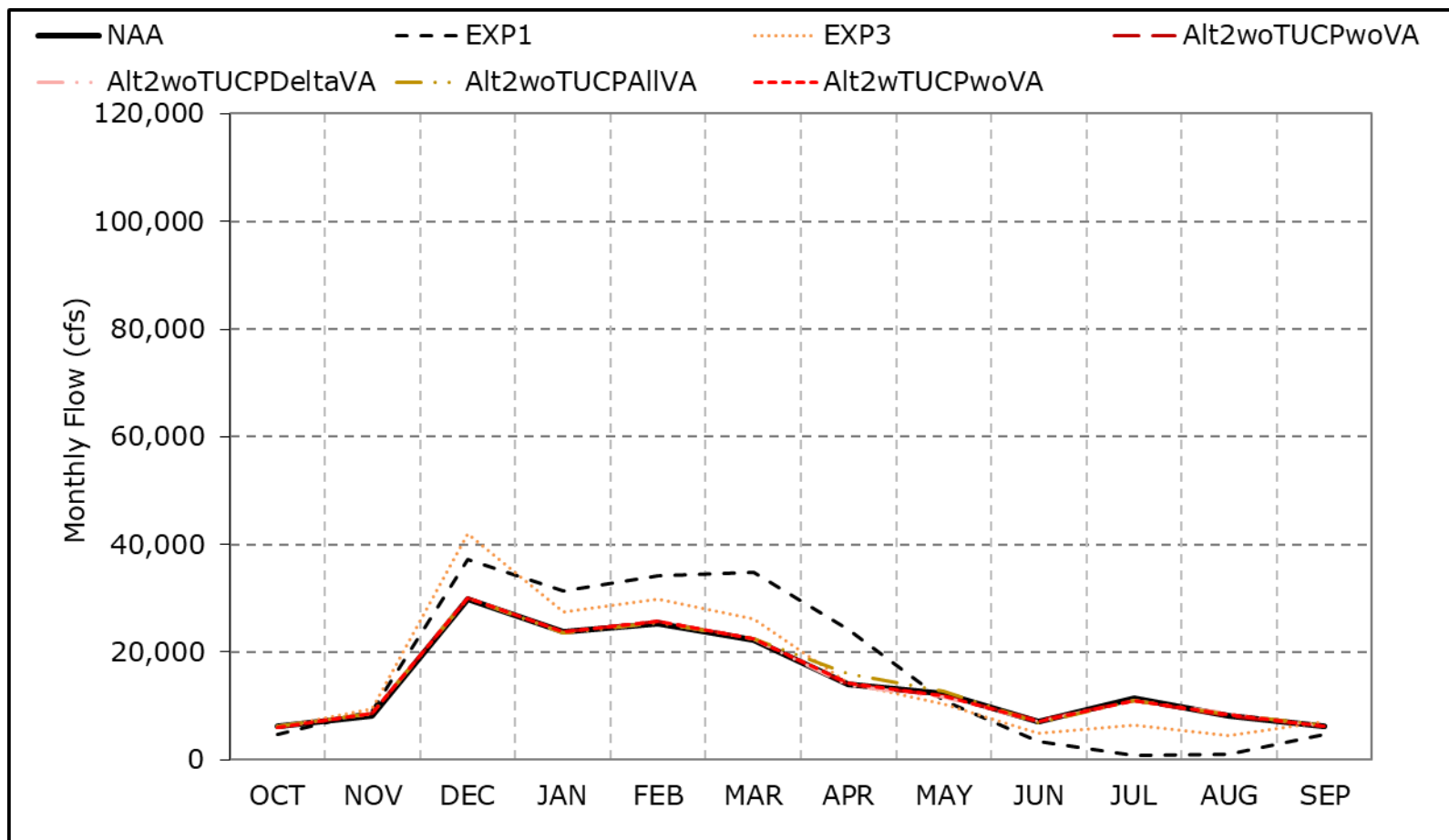


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-4. Sacramento River Flow at Rio Vista, Below Normal Year Average Flow

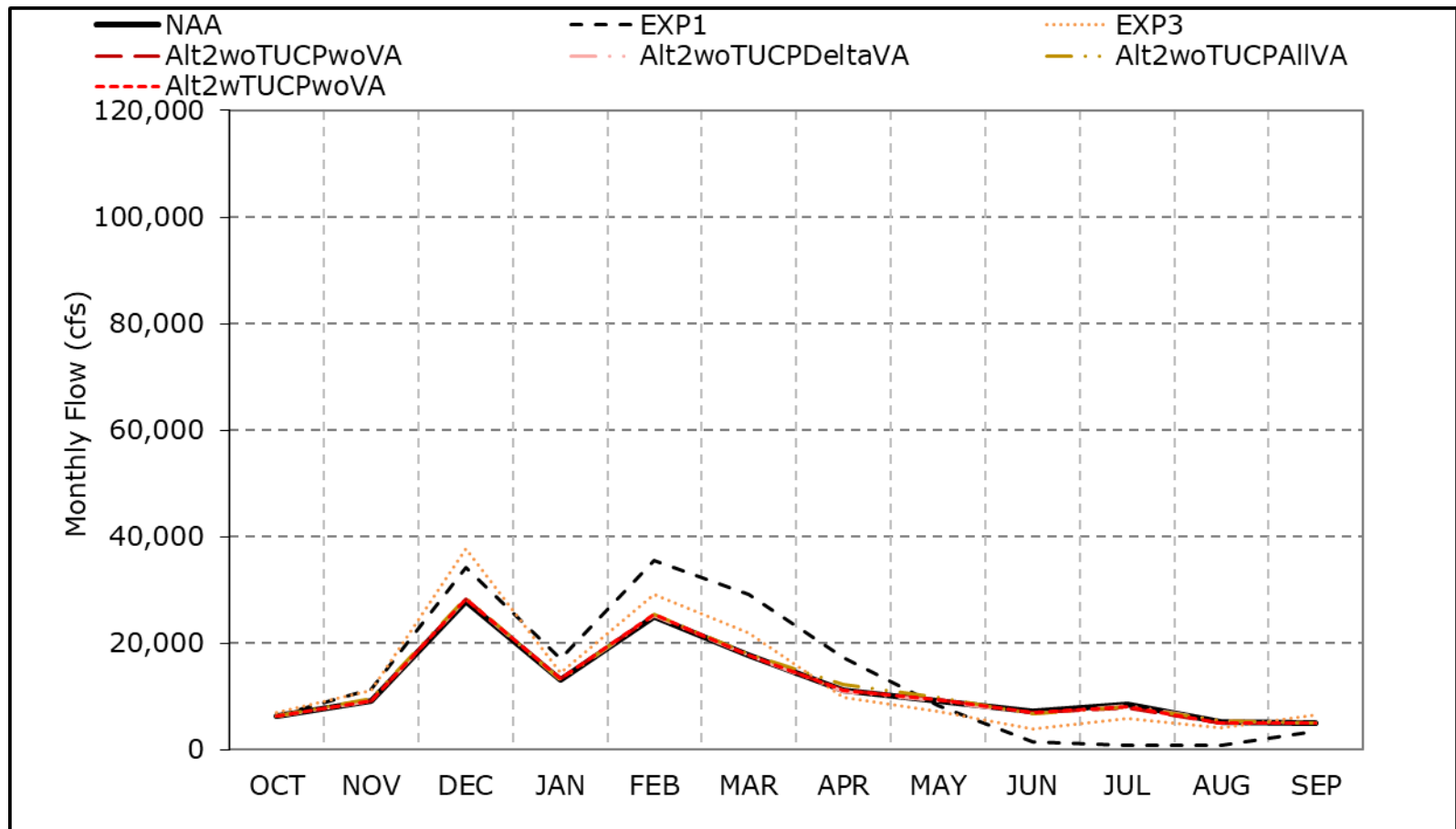


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-5. Sacramento River Flow at Rio Vista, Dry Year Average Flow

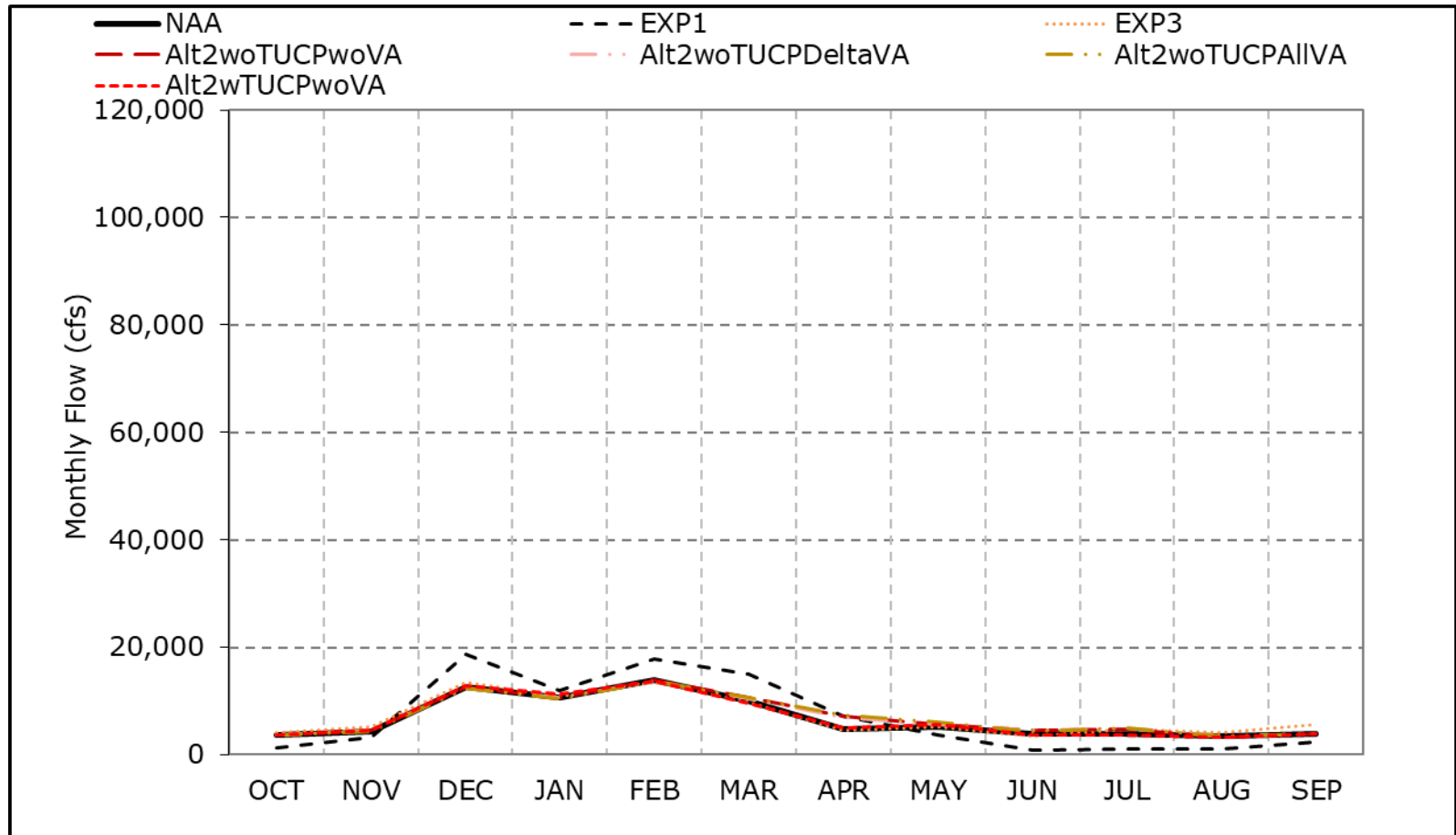


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-6. Sacramento River Flow at Rio Vista, Critical Year Average Flow

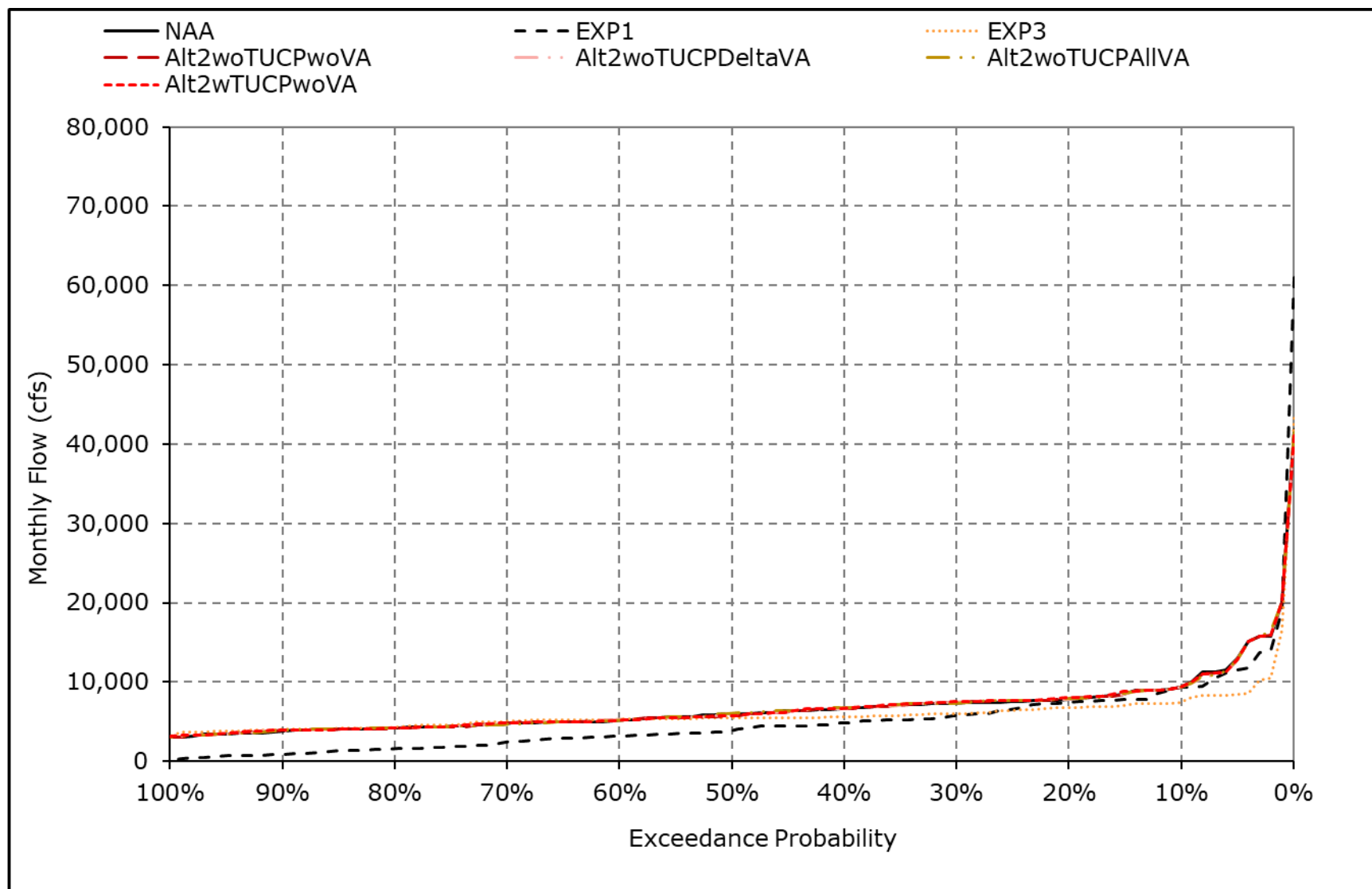


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

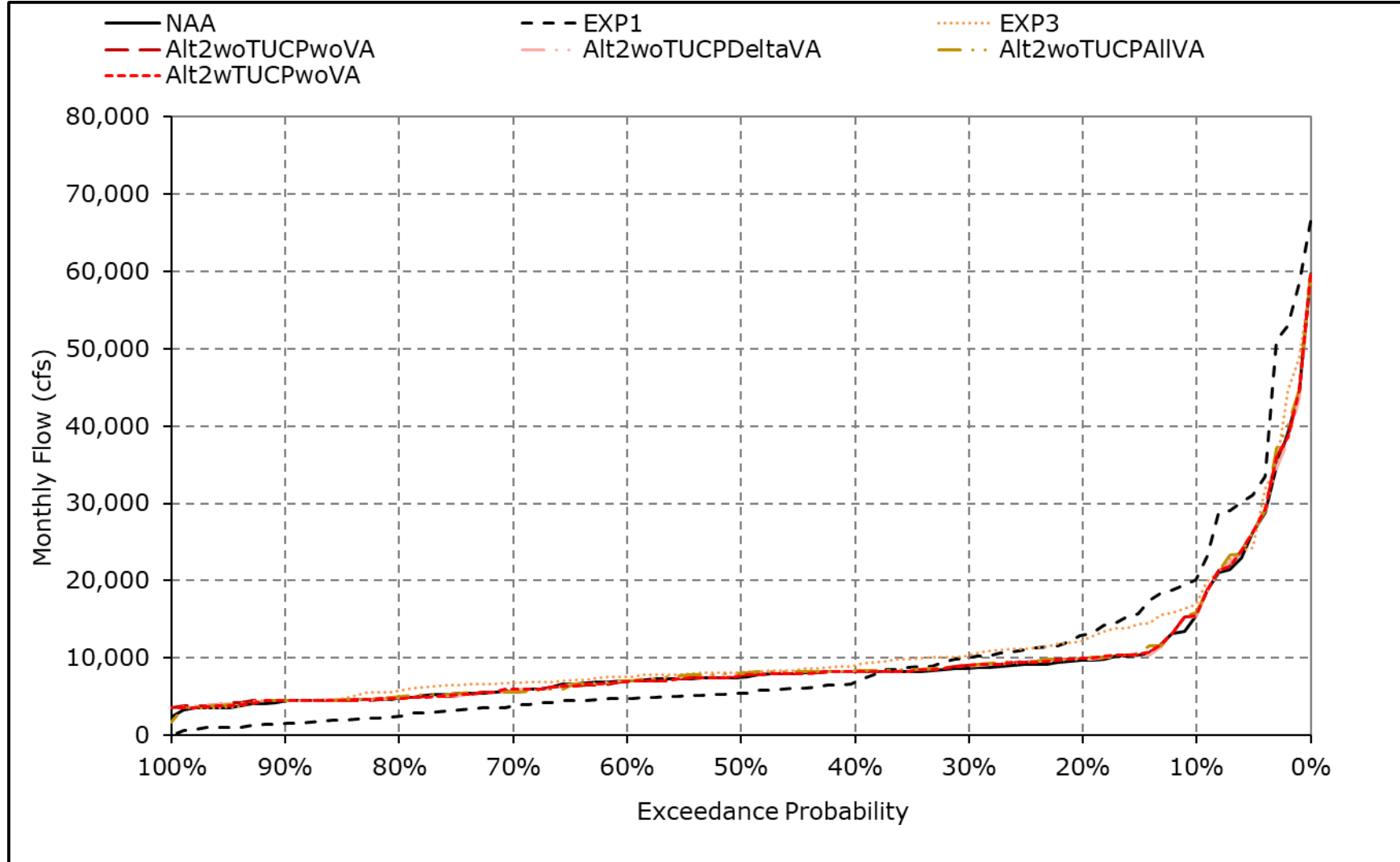
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-7. Sacramento River Flow at Rio Vista, October



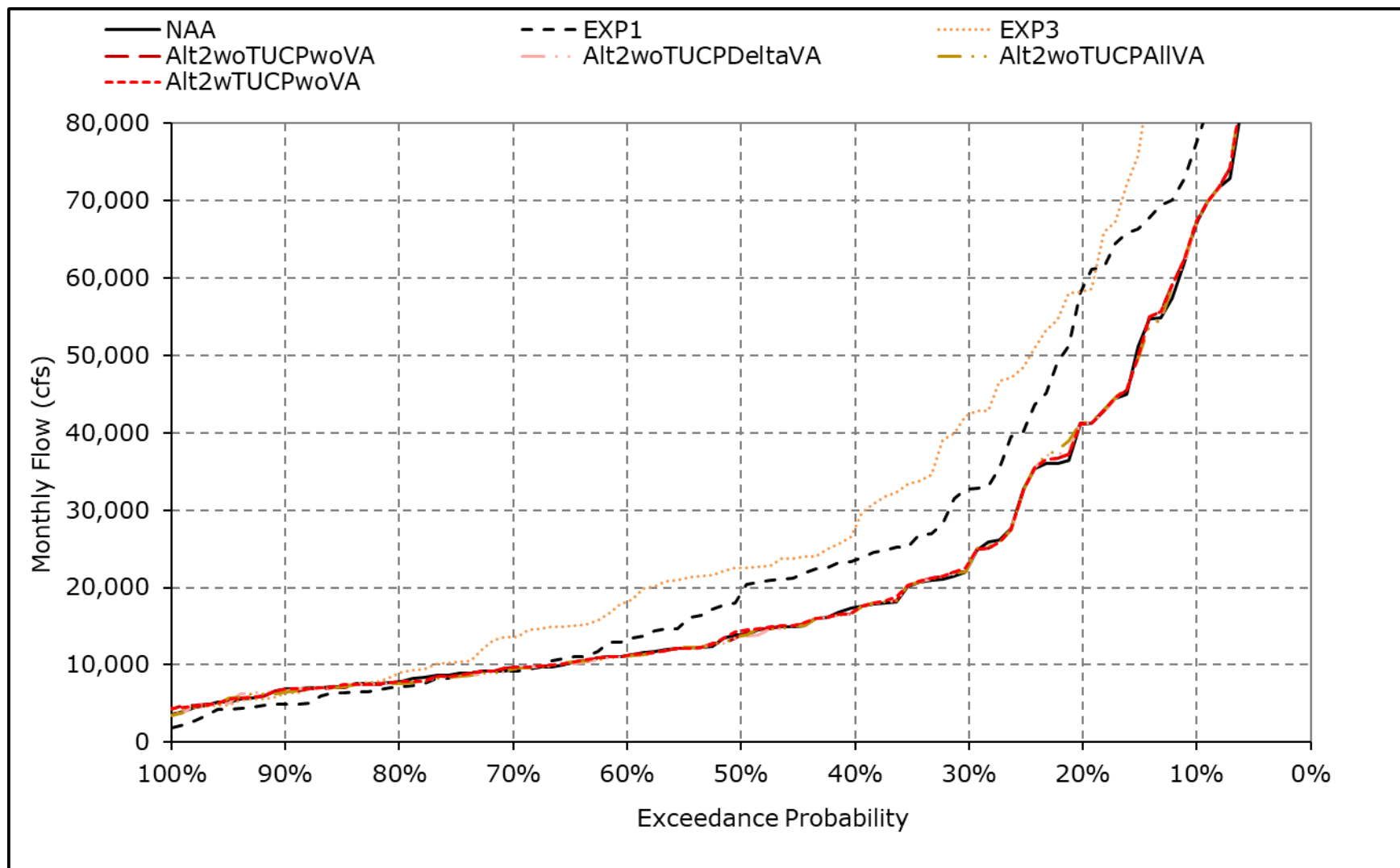
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-8. Sacramento River Flow at Rio Vista, November



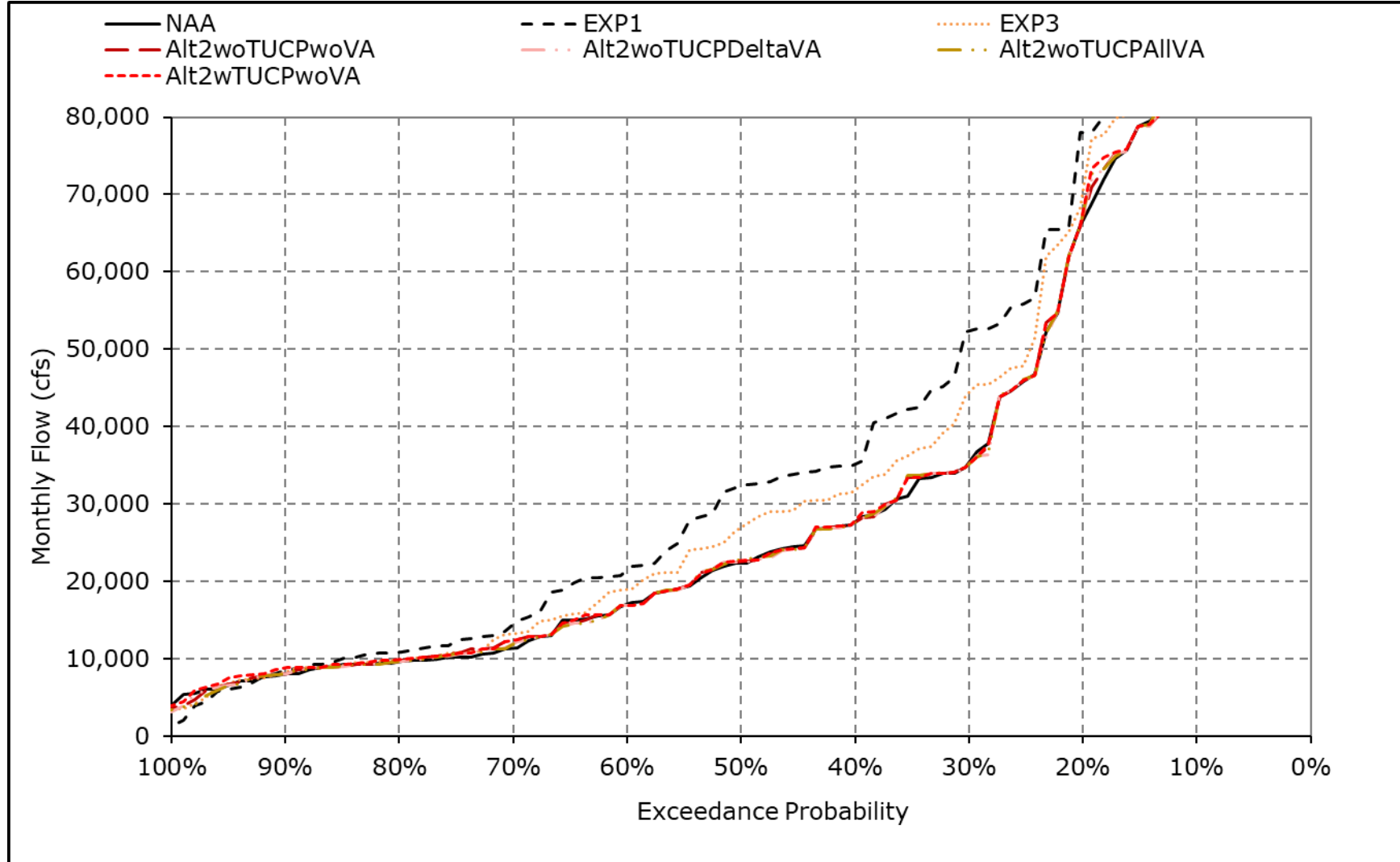
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-9. Sacramento River Flow at Rio Vista, December



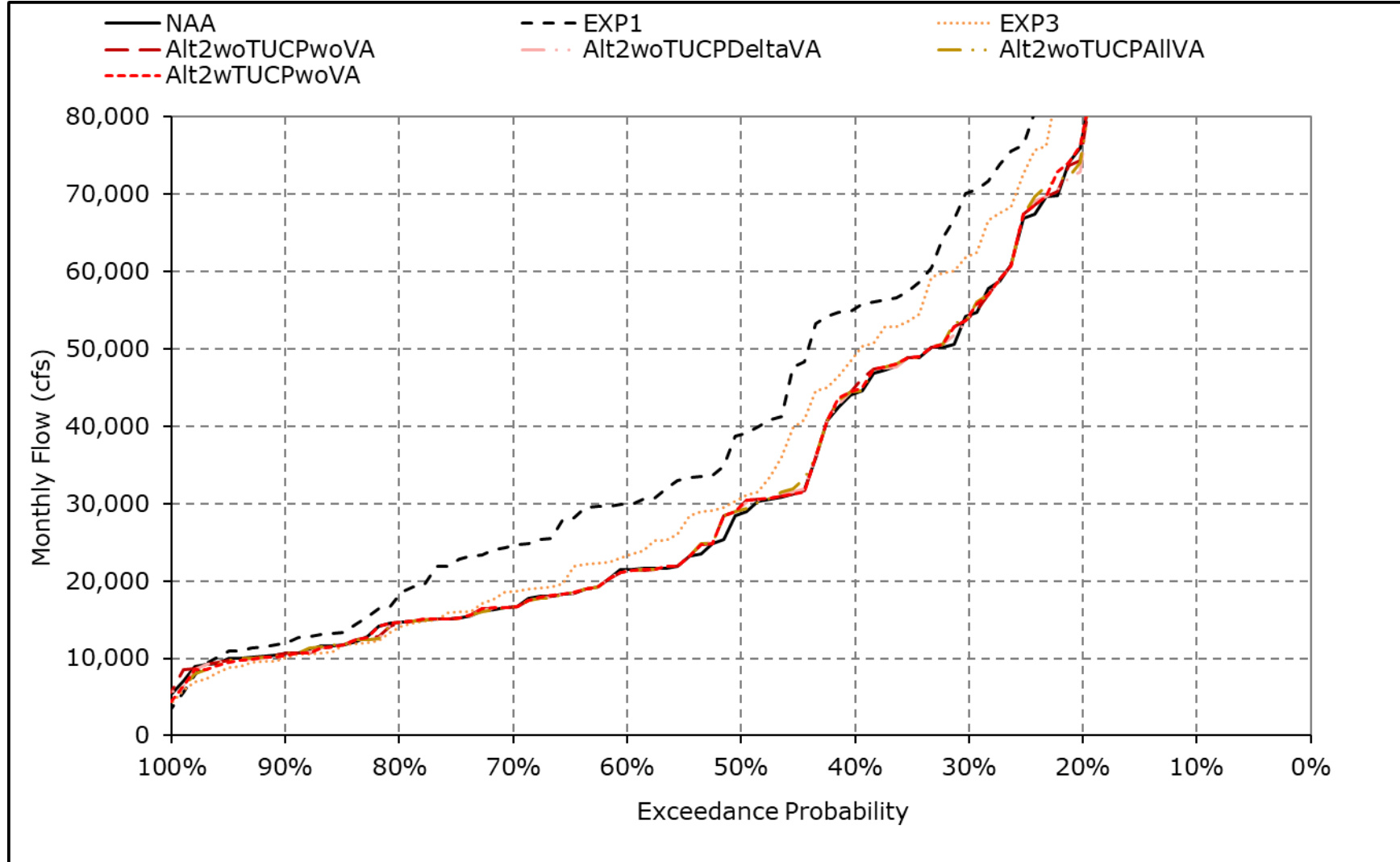
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-10. Sacramento River Flow at Rio Vista, January



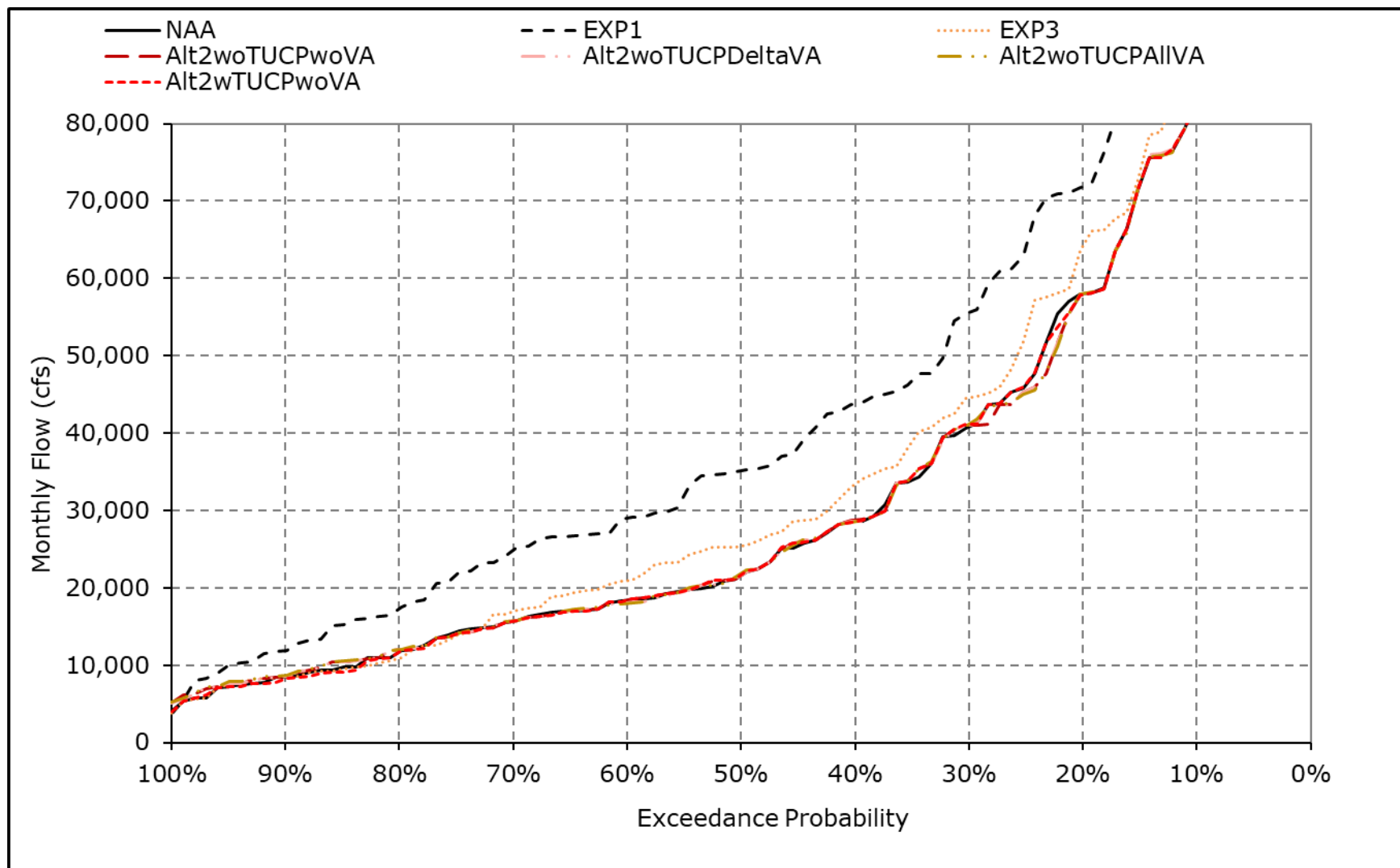
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-11. Sacramento River Flow at Rio Vista, February



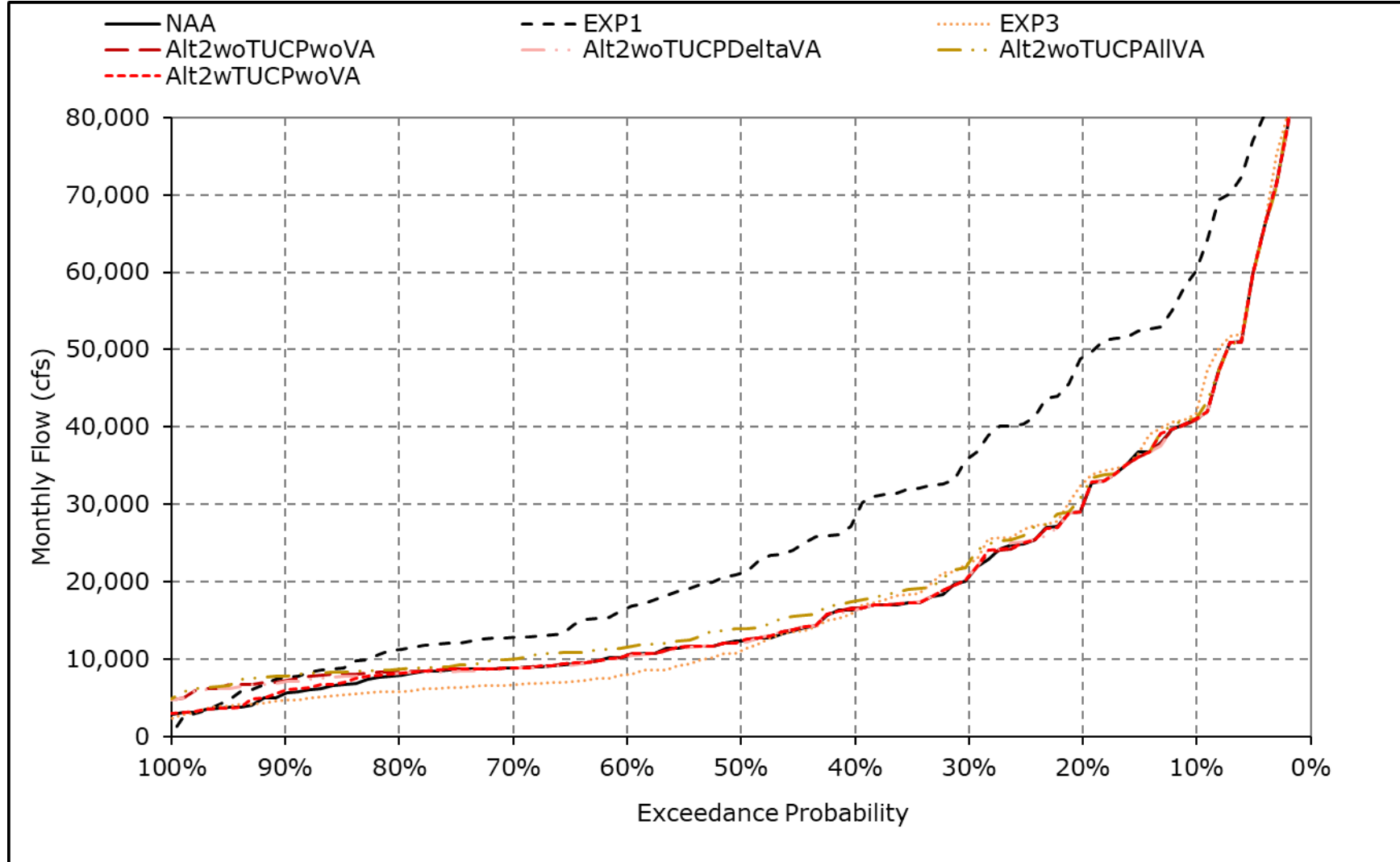
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-12. Sacramento River Flow at Rio Vista, March



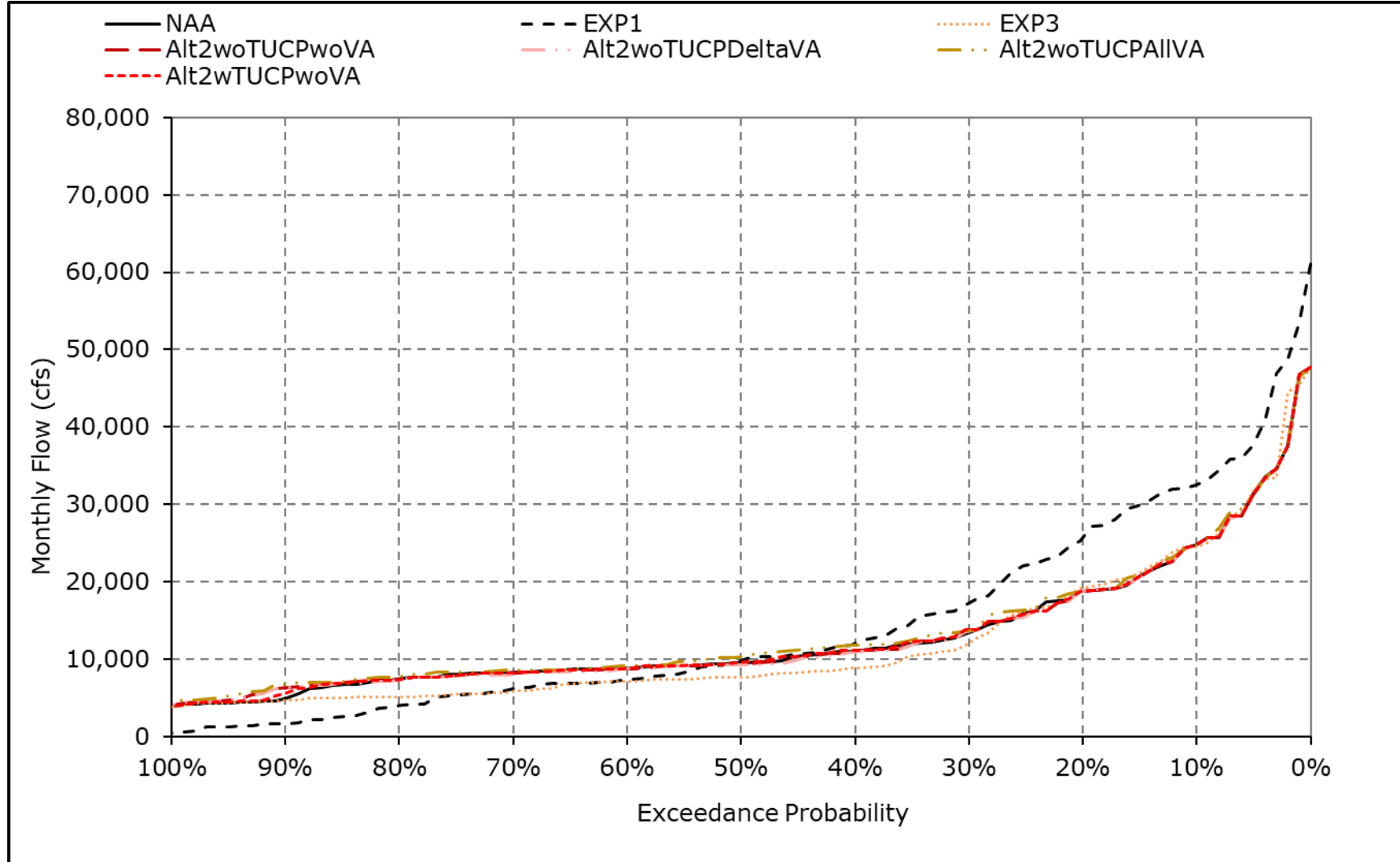
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-13. Sacramento River Flow at Rio Vista, April



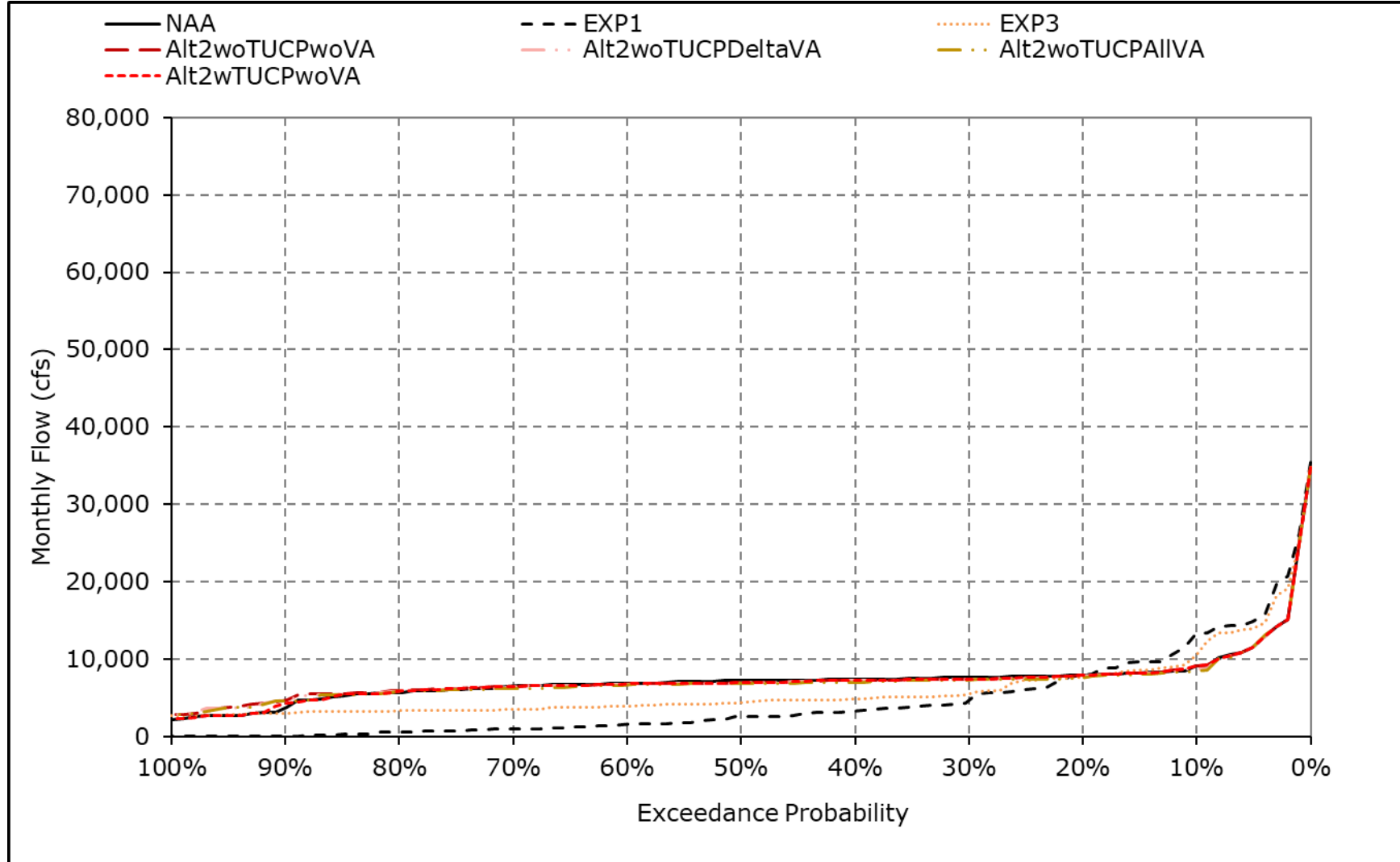
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-14. Sacramento River Flow at Rio Vista, May



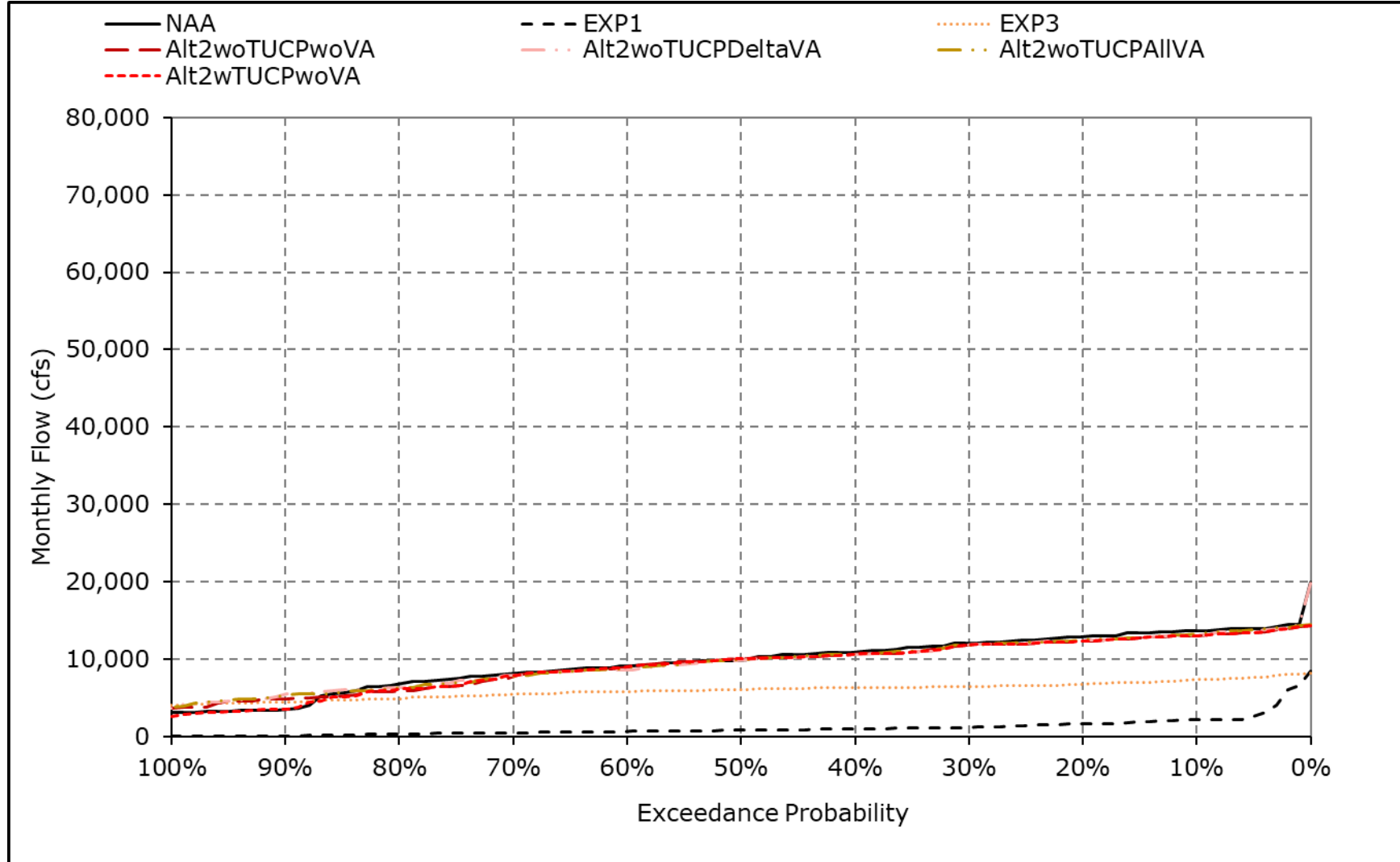
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-15. Sacramento River Flow at Rio Vista, June



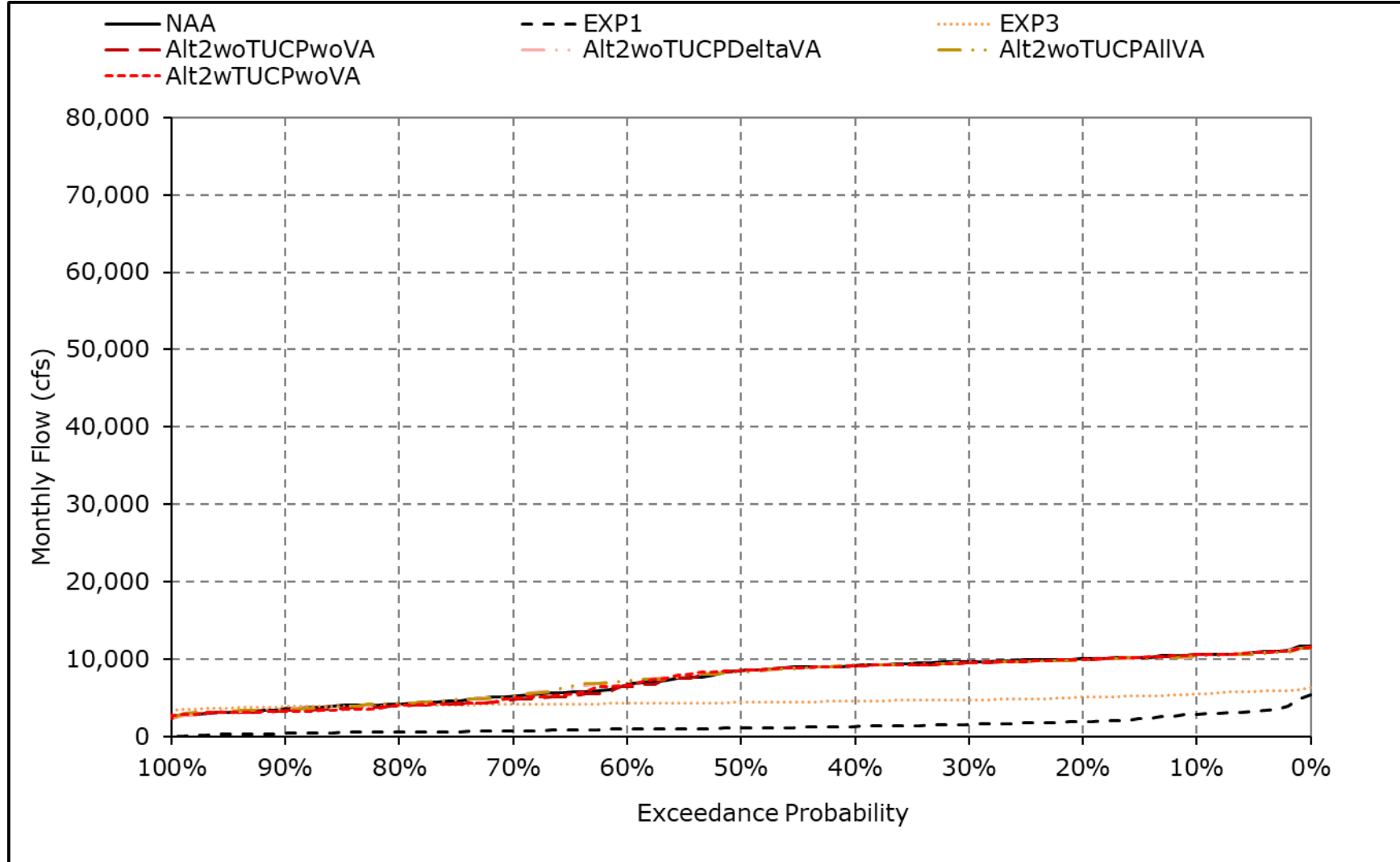
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-16. Sacramento River Flow at Rio Vista, July



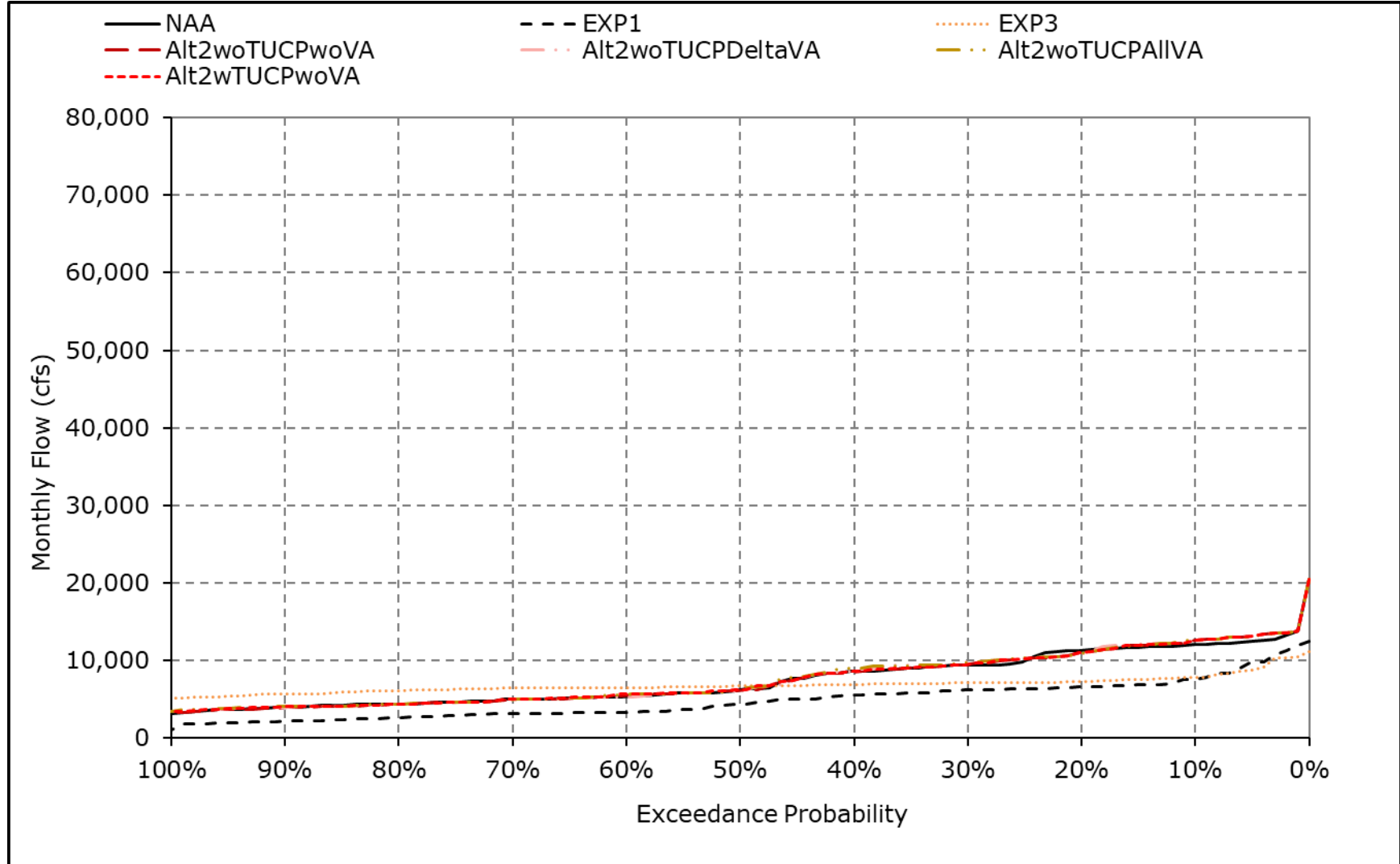
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-17. Sacramento River Flow at Rio Vista, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-15-18. Sacramento River Flow at Rio Vista, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-16-1a. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-1b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,921	1,801	3,378	2,316	2,245	1,117	260	104
20% Exceedance	149	358	193	213	317	1,009	3,265	1,192	1,197	1,082	225	104
30% Exceedance	148	358	188	211	235	868	3,223	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	186	209	212	836	1,588	183	148	68	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	91
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	657	1,110	1,917	748	698	314	103	85
Wet Water Years (22%)	140	352	463	1,408	2,039	2,000	3,679	2,700	2,641	1,241	276	82
Above Normal Water Years (12%)	147	357	309	220	533	1,168	3,120	480	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-1c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	-4	-1	0	-1	-1	0	0	0
20% Exceedance	0	0	0	1	0	0	0	0	0	0	0	1
30% Exceedance	0	0	0	0	0	-1	0	0	0	0	0	1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	1
50% Exceedance	0	0	0	0	0	1	0	0	0	1	1	0
60% Exceedance	0	0	0	0	1	1	0	0	0	0	0	0
70% Exceedance	0	0	0	0	1	0	0	0	1	0	0	0
80% Exceedance	0	0	0	0	0	1	0	1	1	0	1	1
90% Exceedance	0	0	0	0	0	0	1	1	0	0	0	1
Full Simulation Period Average ^a	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (22%)	0	0	0	0	-1	0	0	-1	-1	0	0	0
Above Normal Water Years (12%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	1
Critical Water Years (34%)	0	0	0	0	1	0	0	0	0	0	0	1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-2a. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-2b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,921	1,801	3,377	2,374	2,356	1,122	260	104
20% Exceedance	149	359	193	213	317	1,009	3,257	1,192	1,197	1,082	225	103
30% Exceedance	148	358	188	211	234	868	3,190	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	268	179	71	72	94
50% Exceedance	146	355	185	209	212	836	1,588	183	148	68	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	91
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	68
Full Simulation Period Average ^a	134	324	268	462	653	1,110	1,911	750	702	315	103	85
Wet Water Years (22%)	140	352	463	1,409	2,024	1,997	3,648	2,709	2,662	1,243	277	82
Above Normal Water Years (12%)	147	357	309	220	533	1,168	3,120	480	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	150	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	113	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-2c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	-4	0	0	57	109	5	0	0
20% Exceedance	0	0	0	1	0	0	-7	0	0	0	0	1
30% Exceedance	0	0	0	0	-1	-1	-33	0	0	0	0	1
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	1	0	0	0	1	0	0
60% Exceedance	0	0	0	0	1	1	0	0	0	0	0	0
70% Exceedance	0	0	0	0	1	0	0	0	1	0	0	0
80% Exceedance	0	0	0	0	0	1	0	2	1	0	1	1
90% Exceedance	0	0	0	0	0	0	1	1	0	0	0	1
Full Simulation Period Average ^a	0	0	0	0	-3	-1	-7	2	4	0	0	0
Wet Water Years (22%)	0	0	0	0	-16	-4	-31	9	19	1	0	0
Above Normal Water Years (12%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Dry Water Years (17%)	1	0	0	0	1	0	0	0	0	0	0	1
Critical Water Years (34%)	0	0	0	0	1	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-3a. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-3b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	2,061	1,801	3,378	2,369	2,326	1,122	260	104
20% Exceedance	149	358	193	213	317	1,009	3,257	1,192	1,197	1,082	225	103
30% Exceedance	148	358	188	211	237	873	3,190	327	209	72	72	97
40% Exceedance	147	357	186	209	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	185	209	212	836	1,588	183	148	67	70	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	656	1,110	1,911	751	703	314	103	85
Wet Water Years (22%)	140	352	463	1,408	2,016	1,999	3,649	2,714	2,667	1,243	277	82
Above Normal Water Years (12%)	147	357	310	220	570	1,171	3,121	481	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	90	114	41	40	74

Table F.2.2-16-3c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPAILVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	136	0	0	52	79	5	0	0
20% Exceedance	0	0	0	1	0	1	-7	0	0	0	0	1
30% Exceedance	0	0	0	0	2	5	-33	0	-1	0	0	1
40% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	1	0	0	0	0	0	0
60% Exceedance	0	0	0	0	1	1	0	0	0	0	0	0
70% Exceedance	0	0	0	0	1	0	0	0	1	0	1	0
80% Exceedance	0	0	0	0	0	1	0	2	1	0	1	1
90% Exceedance	0	0	0	0	0	0	1	1	0	0	0	1
Full Simulation Period Average ^a	0	0	0	0	0	0	-6	3	5	0	0	0
Wet Water Years (22%)	0	0	0	0	-23	-2	-30	13	24	2	0	0
Above Normal Water Years (12%)	0	0	0	0	37	3	1	0	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	0	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-4a. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-4b. San Joaquin River Flow at Gravelly Ford, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	154	361	216	250	1,921	1,801	3,378	2,316	2,246	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,265	1,192	1,197	1,082	225	104
30% Exceedance	148	358	188	211	235	868	3,223	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	186	209	212	836	1,588	183	148	69	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	834	839	120	124	58	63	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	56	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	657	1,110	1,917	748	698	314	103	85
Wet Water Years (22%)	140	352	462	1,408	2,039	2,000	3,679	2,700	2,641	1,241	276	82
Above Normal Water Years (12%)	147	357	309	220	534	1,168	3,120	481	218	60	63	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	113	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-4c. San Joaquin River Flow at Gravelly Ford, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1	0	0	0	-4	-1	0	-1	-1	0	0	0
20% Exceedance	0	0	0	1	0	0	0	0	0	0	0	1
30% Exceedance	0	0	0	0	0	-1	0	0	0	0	0	2
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	1	0	0
60% Exceedance	0	0	0	0	1	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	1	0	0	0	1	0	0	0
80% Exceedance	0	0	0	0	0	0	0	1	1	0	0	1
90% Exceedance	0	0	0	0	0	0	1	1	0	0	0	1
Full Simulation Period Average ^a	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (22%)	0	0	0	0	-1	0	0	-1	-1	0	0	0
Above Normal Water Years (12%)	0	0	0	0	0	0	0	0	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	0	1	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	1	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-5a. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-5b. San Joaquin River Flow at Gravelly Ford, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,298	1,424	1,009	2,665	5,293	4,479	5,340	5,547	5,842	3,569	2,669	2,313
20% Exceedance	2,096	1,302	808	1,595	4,038	4,083	4,155	4,883	4,316	2,731	2,455	2,166
30% Exceedance	1,924	1,144	756	1,393	2,875	2,740	3,150	2,973	2,744	2,724	2,385	2,069
40% Exceedance	1,744	959	714	1,302	1,884	2,479	2,636	2,576	2,714	2,698	2,293	1,972
50% Exceedance	940	747	583	1,132	1,577	1,510	2,396	2,304	2,547	2,576	1,915	1,640
60% Exceedance	739	598	509	934	1,395	1,381	2,107	2,129	2,420	1,804	1,388	1,342
70% Exceedance	603	411	430	782	1,189	1,250	1,853	1,895	1,593	1,256	1,283	1,227
80% Exceedance	446	334	342	498	956	1,099	1,630	1,466	1,151	1,048	1,207	967
90% Exceedance	359	253	207	388	602	830	1,218	887	648	867	1,056	770
Full Simulation Period Average ^a	1,288	849	749	1,428	2,441	2,300	2,892	2,890	2,905	2,291	1,862	1,642
Wet Water Years (22%)	2,407	1,525	1,111	2,501	5,689	4,800	5,564	5,785	6,132	3,988	2,658	2,413
Above Normal Water Years (12%)	1,853	1,108	792	1,887	2,919	2,757	3,056	3,652	3,062	2,666	2,395	2,170
Below Normal Water Years (15%)	1,497	942	671	1,500	2,086	2,271	2,749	2,653	2,699	2,598	2,250	1,962
Dry Water Years (17%)	704	655	893	992	1,274	1,319	2,020	2,081	2,212	1,821	1,544	1,262
Critical Water Years (34%)	525	354	452	758	911	1,024	1,605	1,257	1,197	1,159	1,147	1,007

Table F.2.2-16-5c. San Joaquin River Flow at Gravelly Ford, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,145	1,063	793	2,415	3,368	2,678	1,963	3,230	3,596	2,452	2,409	2,209
20% Exceedance	1,948	944	615	1,383	3,721	3,074	890	3,692	3,119	1,650	2,229	2,063
30% Exceedance	1,776	787	568	1,183	2,640	1,871	-73	2,645	2,534	2,652	2,314	1,972
40% Exceedance	1,597	602	528	1,093	1,670	1,642	-208	2,308	2,535	2,626	2,221	1,878
50% Exceedance	794	391	397	923	1,366	674	808	2,121	2,399	2,509	1,845	1,547
60% Exceedance	596	243	325	726	1,184	546	876	1,995	2,289	1,742	1,321	1,251
70% Exceedance	461	58	246	575	979	417	1,014	1,775	1,470	1,198	1,220	1,140
80% Exceedance	308	21	160	292	749	268	1,367	1,352	1,029	994	1,151	894
90% Exceedance	244	-59	52	203	401	3	1,064	790	555	866	1,056	703
Full Simulation Period Average ^a	1,154	526	482	967	1,785	1,190	975	2,142	2,207	1,977	1,759	1,558
Wet Water Years (22%)	2,267	1,173	649	1,092	3,650	2,799	1,885	3,084	3,489	2,747	2,382	2,331
Above Normal Water Years (12%)	1,706	751	482	1,667	2,386	1,589	-64	3,171	2,844	2,606	2,331	2,078
Below Normal Water Years (15%)	1,351	585	473	1,316	1,784	1,396	156	2,382	2,505	2,539	2,185	1,871
Dry Water Years (17%)	555	305	704	807	1,087	478	764	1,932	2,080	1,756	1,477	1,164
Critical Water Years (34%)	413	92	259	563	714	272	1,220	1,168	1,083	1,119	1,106	933

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-6a. San Joaquin River Flow at Gravelly Ford, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,181	1,570	1,976	3,798	5,129	4,623	5,360	7,920	8,148	3,603	2,243	1,805
20% Exceedance	1,045	943	1,193	2,881	3,757	3,857	4,549	5,829	5,724	2,855	1,893	1,477
30% Exceedance	970	801	973	2,091	2,867	3,180	4,087	4,344	3,310	1,878	1,631	1,377
40% Exceedance	919	714	764	1,437	2,412	2,476	3,508	3,699	2,516	1,670	1,497	1,311
50% Exceedance	814	632	676	1,044	1,653	2,150	2,774	2,441	1,714	1,378	1,382	1,268
60% Exceedance	695	509	569	923	1,309	1,781	2,278	1,759	1,481	1,211	1,328	1,231
70% Exceedance	578	396	460	687	1,089	1,460	2,055	1,437	1,106	1,080	1,278	1,175
80% Exceedance	439	336	357	491	745	1,153	1,673	1,103	873	957	1,209	967
90% Exceedance	359	254	208	395	509	730	1,083	664	521	831	1,057	771
Full Simulation Period Average ^a	812	770	1,021	1,778	2,391	2,517	3,210	3,521	3,227	1,930	1,556	1,338
Wet Water Years (22%)	1,253	1,062	1,140	3,986	4,602	4,691	5,591	7,904	8,270	4,135	2,394	1,967
Above Normal Water Years (12%)	940	1,029	1,545	2,318	3,415	3,403	3,963	4,244	3,415	1,729	1,530	1,273
Below Normal Water Years (15%)	967	1,034	1,045	1,808	3,120	2,537	3,649	3,548	2,766	1,704	1,515	1,331
Dry Water Years (17%)	692	787	1,235	873	1,282	1,721	2,434	2,132	1,580	1,266	1,359	1,191
Critical Water Years (34%)	460	344	614	597	832	1,186	1,598	1,112	923	1,006	1,140	1,032

Table F.2.2-16-6b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,921	1,801	3,378	2,316	2,245	1,117	260	104
20% Exceedance	149	358	193	213	317	1,009	3,265	1,192	1,197	1,082	225	104
30% Exceedance	148	358	188	211	235	868	3,223	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	186	209	212	836	1,588	183	148	68	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	91
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	657	1,110	1,917	748	698	314	103	85
Wet Water Years (22%)	140	352	463	1,408	2,039	2,000	3,679	2,700	2,641	1,241	276	82
Above Normal Water Years (12%)	147	357	309	220	533	1,168	3,120	480	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-6c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,027	-1,209	-1,760	-3,547	-3,208	-2,823	-1,983	-5,604	-5,903	-2,486	-1,984	-1,701
20% Exceedance	-896	-585	-1,001	-2,668	-3,440	-2,848	-1,284	-4,637	-4,527	-1,773	-1,668	-1,372
30% Exceedance	-822	-444	-786	-1,880	-2,632	-2,313	-864	-4,017	-3,101	-1,807	-1,560	-1,280
40% Exceedance	-772	-357	-578	-1,227	-2,198	-1,638	-663	-3,431	-2,337	-1,599	-1,425	-1,217
50% Exceedance	-668	-276	-490	-834	-1,441	-1,314	-1,187	-2,259	-1,566	-1,310	-1,311	-1,175
60% Exceedance	-552	-154	-385	-715	-1,098	-947	-1,046	-1,625	-1,350	-1,149	-1,261	-1,141
70% Exceedance	-436	-43	-276	-481	-879	-627	-1,215	-1,317	-981	-1,021	-1,214	-1,088
80% Exceedance	-302	-22	-174	-285	-537	-321	-1,409	-988	-751	-903	-1,152	-893
90% Exceedance	-244	58	-53	-210	-309	97	-929	-565	-429	-830	-1,057	-703
Full Simulation Period Average ^a	-678	-446	-753	-1,316	-1,735	-1,406	-1,293	-2,773	-2,529	-1,616	-1,453	-1,254
Wet Water Years (22%)	-1,113	-709	-677	-2,578	-2,563	-2,690	-1,913	-5,205	-5,629	-2,894	-2,118	-1,885
Above Normal Water Years (12%)	-793	-672	-1,236	-2,098	-2,882	-2,235	-842	-3,763	-3,197	-1,669	-1,467	-1,182
Below Normal Water Years (15%)	-821	-678	-847	-1,623	-2,818	-1,661	-1,056	-3,277	-2,573	-1,645	-1,450	-1,240
Dry Water Years (17%)	-543	-437	-1,046	-688	-1,095	-880	-1,179	-1,983	-1,447	-1,201	-1,292	-1,093
Critical Water Years (34%)	-347	-81	-421	-402	-635	-434	-1,213	-1,022	-809	-966	-1,100	-958

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-7a. San Joaquin River Flow at Gravelly Ford, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,181	1,570	1,976	3,798	5,129	4,623	5,360	7,920	8,148	3,603	2,243	1,805
20% Exceedance	1,045	943	1,193	2,881	3,757	3,857	4,549	5,829	5,724	2,855	1,893	1,477
30% Exceedance	970	801	973	2,091	2,867	3,180	4,087	4,344	3,310	1,878	1,631	1,377
40% Exceedance	919	714	764	1,437	2,412	2,476	3,508	3,699	2,516	1,670	1,497	1,311
50% Exceedance	814	632	676	1,044	1,653	2,150	2,774	2,441	1,714	1,378	1,382	1,268
60% Exceedance	695	509	569	923	1,309	1,781	2,278	1,759	1,481	1,211	1,328	1,231
70% Exceedance	578	396	460	687	1,089	1,460	2,055	1,437	1,106	1,080	1,278	1,175
80% Exceedance	439	336	357	491	745	1,153	1,673	1,103	873	957	1,209	967
90% Exceedance	359	254	208	395	509	730	1,083	664	521	831	1,057	771
Full Simulation Period Average ^a	812	770	1,021	1,778	2,391	2,517	3,210	3,521	3,227	1,930	1,556	1,338
Wet Water Years (22%)	1,253	1,062	1,140	3,986	4,602	4,691	5,591	7,904	8,270	4,135	2,394	1,967
Above Normal Water Years (12%)	940	1,029	1,545	2,318	3,415	3,403	3,963	4,244	3,415	1,729	1,530	1,273
Below Normal Water Years (15%)	967	1,034	1,045	1,808	3,120	2,537	3,649	3,548	2,766	1,704	1,515	1,331
Dry Water Years (17%)	692	787	1,235	873	1,282	1,721	2,434	2,132	1,580	1,266	1,359	1,191
Critical Water Years (34%)	460	344	614	597	832	1,186	1,598	1,112	923	1,006	1,140	1,032

Table F.2.2-16-7b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,921	1,801	3,377	2,374	2,356	1,122	260	104
20% Exceedance	149	359	193	213	317	1,009	3,257	1,192	1,197	1,082	225	103
30% Exceedance	148	358	188	211	234	868	3,190	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	268	179	71	72	94
50% Exceedance	146	355	185	209	212	836	1,588	183	148	68	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	91
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	68
Full Simulation Period Average ^a	134	324	268	462	653	1,110	1,911	750	702	315	103	85
Wet Water Years (22%)	140	352	463	1,409	2,024	1,997	3,648	2,709	2,662	1,243	277	82
Above Normal Water Years (12%)	147	357	309	220	533	1,168	3,120	480	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	150	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	113	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-7c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,027	-1,209	-1,760	-3,547	-3,208	-2,822	-1,983	-5,546	-5,792	-2,481	-1,984	-1,701
20% Exceedance	-896	-585	-1,001	-2,668	-3,440	-2,848	-1,292	-4,637	-4,527	-1,773	-1,668	-1,373
30% Exceedance	-822	-444	-786	-1,880	-2,633	-2,313	-897	-4,017	-3,100	-1,807	-1,560	-1,280
40% Exceedance	-772	-357	-578	-1,227	-2,198	-1,638	-663	-3,431	-2,337	-1,599	-1,425	-1,217
50% Exceedance	-668	-276	-490	-834	-1,441	-1,314	-1,186	-2,259	-1,566	-1,310	-1,311	-1,174
60% Exceedance	-551	-154	-385	-715	-1,098	-946	-1,046	-1,625	-1,350	-1,148	-1,261	-1,141
70% Exceedance	-436	-43	-276	-481	-879	-627	-1,215	-1,317	-981	-1,021	-1,214	-1,088
80% Exceedance	-302	-22	-175	-285	-537	-321	-1,409	-988	-751	-903	-1,152	-893
90% Exceedance	-244	58	-53	-210	-309	97	-928	-565	-429	-830	-1,057	-703
Full Simulation Period Average ^a	-678	-446	-753	-1,316	-1,738	-1,407	-1,300	-2,771	-2,524	-1,616	-1,453	-1,254
Wet Water Years (22%)	-1,112	-709	-677	-2,577	-2,578	-2,694	-1,944	-5,195	-5,608	-2,892	-2,117	-1,885
Above Normal Water Years (12%)	-793	-672	-1,236	-2,098	-2,881	-2,235	-842	-3,763	-3,197	-1,669	-1,466	-1,181
Below Normal Water Years (15%)	-821	-678	-847	-1,623	-2,818	-1,661	-1,056	-3,277	-2,573	-1,645	-1,450	-1,240
Dry Water Years (17%)	-542	-437	-1,046	-688	-1,095	-880	-1,179	-1,983	-1,447	-1,201	-1,292	-1,093
Critical Water Years (34%)	-347	-81	-421	-402	-635	-434	-1,213	-1,022	-809	-966	-1,100	-958

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-8a. San Joaquin River Flow at Gravelly Ford, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,181	1,570	1,976	3,798	5,129	4,623	5,360	7,920	8,148	3,603	2,243	1,805
20% Exceedance	1,045	943	1,193	2,881	3,757	3,857	4,549	5,829	5,724	2,855	1,893	1,477
30% Exceedance	970	801	973	2,091	2,867	3,180	4,087	4,344	3,310	1,878	1,631	1,377
40% Exceedance	919	714	764	1,437	2,412	2,476	3,508	3,699	2,516	1,670	1,497	1,311
50% Exceedance	814	632	676	1,044	1,653	2,150	2,774	2,441	1,714	1,378	1,382	1,268
60% Exceedance	695	509	569	923	1,309	1,781	2,278	1,759	1,481	1,211	1,328	1,231
70% Exceedance	578	396	460	687	1,089	1,460	2,055	1,437	1,106	1,080	1,278	1,175
80% Exceedance	439	336	357	491	745	1,153	1,673	1,103	873	957	1,209	967
90% Exceedance	359	254	208	395	509	730	1,083	664	521	831	1,057	771
Full Simulation Period Average ^a	812	770	1,021	1,778	2,391	2,517	3,210	3,521	3,227	1,930	1,556	1,338
Wet Water Years (22%)	1,253	1,062	1,140	3,986	4,602	4,691	5,591	7,904	8,270	4,135	2,394	1,967
Above Normal Water Years (12%)	940	1,029	1,545	2,318	3,415	3,403	3,963	4,244	3,415	1,729	1,530	1,273
Below Normal Water Years (15%)	967	1,034	1,045	1,808	3,120	2,537	3,649	3,548	2,766	1,704	1,515	1,331
Dry Water Years (17%)	692	787	1,235	873	1,282	1,721	2,434	2,132	1,580	1,266	1,359	1,191
Critical Water Years (34%)	460	344	614	597	832	1,186	1,598	1,112	923	1,006	1,140	1,032

Table F.2.2-16-8b. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	2,061	1,801	3,378	2,369	2,326	1,122	260	104
20% Exceedance	149	358	193	213	317	1,009	3,257	1,192	1,197	1,082	225	103
30% Exceedance	148	358	188	211	237	873	3,190	327	209	72	72	97
40% Exceedance	147	357	186	209	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	185	209	212	836	1,588	183	148	67	70	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	834	839	120	124	59	64	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	57	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	656	1,110	1,911	751	703	314	103	85
Wet Water Years (22%)	140	352	463	1,408	2,016	1,999	3,649	2,714	2,667	1,243	277	82
Above Normal Water Years (12%)	147	357	310	220	570	1,171	3,121	481	218	61	64	91
Below Normal Water Years (15%)	146	356	198	184	302	876	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	90	114	41	40	74

Table F.2.2-16-8c. San Joaquin River Flow at Gravelly Ford, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,027	-1,209	-1,760	-3,547	-3,068	-2,822	-1,983	-5,551	-5,822	-2,481	-1,984	-1,701
20% Exceedance	-896	-585	-1,001	-2,668	-3,440	-2,847	-1,292	-4,637	-4,527	-1,773	-1,668	-1,373
30% Exceedance	-822	-444	-786	-1,880	-2,630	-2,307	-897	-4,017	-3,101	-1,807	-1,560	-1,280
40% Exceedance	-772	-357	-578	-1,227	-2,198	-1,638	-663	-3,431	-2,337	-1,599	-1,425	-1,217
50% Exceedance	-668	-276	-490	-835	-1,441	-1,314	-1,187	-2,259	-1,566	-1,311	-1,311	-1,175
60% Exceedance	-552	-154	-385	-715	-1,098	-947	-1,046	-1,625	-1,350	-1,149	-1,261	-1,141
70% Exceedance	-436	-43	-276	-481	-879	-627	-1,215	-1,317	-982	-1,021	-1,214	-1,088
80% Exceedance	-302	-22	-175	-285	-537	-321	-1,409	-988	-751	-903	-1,152	-893
90% Exceedance	-244	58	-53	-210	-309	96	-929	-565	-429	-830	-1,057	-703
Full Simulation Period Average ^a	-678	-446	-753	-1,316	-1,735	-1,406	-1,299	-2,770	-2,523	-1,616	-1,453	-1,254
Wet Water Years (22%)	-1,113	-710	-677	-2,577	-2,586	-2,692	-1,943	-5,191	-5,603	-2,892	-2,117	-1,885
Above Normal Water Years (12%)	-793	-672	-1,236	-2,098	-2,844	-2,232	-842	-3,763	-3,197	-1,669	-1,466	-1,182
Below Normal Water Years (15%)	-821	-678	-847	-1,623	-2,818	-1,661	-1,056	-3,277	-2,573	-1,646	-1,450	-1,240
Dry Water Years (17%)	-543	-437	-1,046	-688	-1,095	-880	-1,179	-1,983	-1,448	-1,201	-1,292	-1,093
Critical Water Years (34%)	-348	-81	-421	-402	-635	-434	-1,213	-1,022	-809	-966	-1,100	-958

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-9a. San Joaquin River Flow at Gravelly Ford, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,181	1,570	1,976	3,798	5,129	4,623	5,360	7,920	8,148	3,603	2,243	1,805
20% Exceedance	1,045	943	1,193	2,881	3,757	3,857	4,549	5,829	5,724	2,855	1,893	1,477
30% Exceedance	970	801	973	2,091	2,867	3,180	4,087	4,344	3,310	1,878	1,631	1,377
40% Exceedance	919	714	764	1,437	2,412	2,476	3,508	3,699	2,516	1,670	1,497	1,311
50% Exceedance	814	632	676	1,044	1,653	2,150	2,774	2,441	1,714	1,378	1,382	1,268
60% Exceedance	695	509	569	923	1,309	1,781	2,278	1,759	1,481	1,211	1,328	1,231
70% Exceedance	578	396	460	687	1,089	1,460	2,055	1,437	1,106	1,080	1,278	1,175
80% Exceedance	439	336	357	491	745	1,153	1,673	1,103	873	957	1,209	967
90% Exceedance	359	254	208	395	509	730	1,083	664	521	831	1,057	771
Full Simulation Period Average ^a	812	770	1,021	1,778	2,391	2,517	3,210	3,521	3,227	1,930	1,556	1,338
Wet Water Years (22%)	1,253	1,062	1,140	3,986	4,602	4,691	5,591	7,904	8,270	4,135	2,394	1,967
Above Normal Water Years (12%)	940	1,029	1,545	2,318	3,415	3,403	3,963	4,244	3,415	1,729	1,530	1,273
Below Normal Water Years (15%)	967	1,034	1,045	1,808	3,120	2,537	3,649	3,548	2,766	1,704	1,515	1,331
Dry Water Years (17%)	692	787	1,235	873	1,282	1,721	2,434	2,132	1,580	1,266	1,359	1,191
Critical Water Years (34%)	460	344	614	597	832	1,186	1,598	1,112	923	1,006	1,140	1,032

Table F.2.2-16-9b. San Joaquin River Flow at Gravelly Ford, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	154	361	216	250	1,921	1,801	3,378	2,316	2,246	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,265	1,192	1,197	1,082	225	104
30% Exceedance	148	358	188	211	235	868	3,223	327	210	72	72	98
40% Exceedance	147	357	186	210	214	838	2,844	269	179	71	72	94
50% Exceedance	146	355	186	209	212	836	1,588	183	148	69	71	93
60% Exceedance	144	354	185	208	211	835	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	834	839	120	124	58	63	87
80% Exceedance	138	313	183	205	208	832	264	115	122	54	56	74
90% Exceedance	115	312	155	186	201	827	155	99	92	0	0	67
Full Simulation Period Average ^a	134	324	268	462	657	1,110	1,917	748	698	314	103	85
Wet Water Years (22%)	140	352	462	1,408	2,039	2,000	3,679	2,700	2,641	1,241	276	82
Above Normal Water Years (12%)	147	357	309	220	534	1,168	3,120	481	218	60	63	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	187	841	1,256	149	133	65	67	98
Critical Water Years (34%)	113	263	193	195	197	752	386	90	115	41	40	74

Table F.2.2-16-9c. San Joaquin River Flow at Gravelly Ford, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,027	-1,209	-1,760	-3,547	-3,208	-2,823	-1,983	-5,604	-5,903	-2,486	-1,984	-1,701
20% Exceedance	-896	-585	-1,001	-2,668	-3,440	-2,848	-1,284	-4,637	-4,527	-1,773	-1,668	-1,373
30% Exceedance	-822	-444	-785	-1,880	-2,632	-2,312	-864	-4,017	-3,100	-1,807	-1,560	-1,279
40% Exceedance	-772	-357	-578	-1,227	-2,198	-1,638	-663	-3,431	-2,337	-1,599	-1,425	-1,217
50% Exceedance	-668	-276	-490	-835	-1,441	-1,314	-1,187	-2,259	-1,566	-1,309	-1,311	-1,175
60% Exceedance	-552	-154	-385	-715	-1,098	-947	-1,046	-1,625	-1,350	-1,149	-1,261	-1,141
70% Exceedance	-436	-43	-276	-481	-879	-627	-1,215	-1,317	-981	-1,021	-1,214	-1,088
80% Exceedance	-302	-22	-175	-285	-538	-321	-1,409	-988	-751	-903	-1,153	-893
90% Exceedance	-244	58	-53	-210	-308	97	-929	-565	-429	-830	-1,057	-703
Full Simulation Period Average ^a	-678	-446	-753	-1,316	-1,735	-1,406	-1,293	-2,773	-2,529	-1,616	-1,453	-1,254
Wet Water Years (22%)	-1,113	-710	-677	-2,578	-2,563	-2,690	-1,913	-5,205	-5,629	-2,894	-2,117	-1,885
Above Normal Water Years (12%)	-793	-672	-1,236	-2,098	-2,881	-2,235	-842	-3,763	-3,197	-1,669	-1,467	-1,182
Below Normal Water Years (15%)	-821	-678	-847	-1,623	-2,818	-1,661	-1,056	-3,277	-2,573	-1,645	-1,450	-1,240
Dry Water Years (17%)	-543	-437	-1,046	-688	-1,095	-880	-1,179	-1,983	-1,447	-1,201	-1,292	-1,093
Critical Water Years (34%)	-347	-81	-421	-402	-635	-434	-1,213	-1,022	-809	-966	-1,100	-958

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-16-10a. San Joaquin River Flow at Gravelly Ford, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,181	1,570	1,976	3,798	5,129	4,623	5,360	7,920	8,148	3,603	2,243	1,805
20% Exceedance	1,045	943	1,193	2,881	3,757	3,857	4,549	5,829	5,724	2,855	1,893	1,477
30% Exceedance	970	801	973	2,091	2,867	3,180	4,087	4,344	3,310	1,878	1,631	1,377
40% Exceedance	919	714	764	1,437	2,412	2,476	3,508	3,699	2,516	1,670	1,497	1,311
50% Exceedance	814	632	676	1,044	1,653	2,150	2,774	2,441	1,714	1,378	1,382	1,268
60% Exceedance	695	509	569	923	1,309	1,781	2,278	1,759	1,481	1,211	1,328	1,231
70% Exceedance	578	396	460	687	1,089	1,460	2,055	1,437	1,106	1,080	1,278	1,175
80% Exceedance	439	336	357	491	745	1,153	1,673	1,103	873	957	1,209	967
90% Exceedance	359	254	208	395	509	730	1,083	664	521	831	1,057	771
Full Simulation Period Average ^a	812	770	1,021	1,778	2,391	2,517	3,210	3,521	3,227	1,930	1,556	1,338
Wet Water Years (22%)	1,253	1,062	1,140	3,986	4,602	4,691	5,591	7,904	8,270	4,135	2,394	1,967
Above Normal Water Years (12%)	940	1,029	1,545	2,318	3,415	3,403	3,963	4,244	3,415	1,729	1,530	1,273
Below Normal Water Years (15%)	967	1,034	1,045	1,808	3,120	2,537	3,649	3,548	2,766	1,704	1,515	1,331
Dry Water Years (17%)	692	787	1,235	873	1,282	1,721	2,434	2,132	1,580	1,266	1,359	1,191
Critical Water Years (34%)	460	344	614	597	832	1,186	1,598	1,112	923	1,006	1,140	1,032

Table F.2.2-16-10b. San Joaquin River Flow at Gravelly Ford, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	153	361	216	250	1,925	1,801	3,378	2,317	2,247	1,116	260	104
20% Exceedance	149	358	193	213	317	1,009	3,264	1,192	1,197	1,082	226	103
30% Exceedance	148	357	188	211	235	869	3,223	328	210	72	72	96
40% Exceedance	147	357	186	209	214	837	2,844	269	179	71	72	94
50% Exceedance	146	356	185	209	212	836	1,588	183	149	68	70	93
60% Exceedance	143	354	184	208	211	834	1,231	134	131	62	67	90
70% Exceedance	142	353	184	207	210	833	839	120	123	58	63	87
80% Exceedance	137	313	182	205	207	831	264	113	121	54	56	74
90% Exceedance	115	312	155	186	201	827	154	98	92	0	0	67
Full Simulation Period Average ^a	134	323	267	461	657	1,110	1,917	748	698	314	103	84
Wet Water Years (22%)	140	352	462	1,409	2,039	2,001	3,679	2,701	2,643	1,241	277	82
Above Normal Water Years (12%)	147	357	310	220	533	1,168	3,120	481	218	60	64	91
Below Normal Water Years (15%)	146	356	198	184	302	875	2,593	271	194	59	65	91
Dry Water Years (17%)	149	350	189	185	186	841	1,256	149	132	65	67	98
Critical Water Years (34%)	112	263	193	195	197	752	386	89	114	41	40	74

Table F.2.2-16-10c. San Joaquin River Flow at Gravelly Ford, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,027	-1,210	-1,760	-3,547	-3,204	-2,822	-1,983	-5,603	-5,901	-2,486	-1,983	-1,701
20% Exceedance	-896	-585	-1,001	-2,669	-3,440	-2,848	-1,284	-4,638	-4,527	-1,773	-1,667	-1,374
30% Exceedance	-822	-444	-786	-1,881	-2,632	-2,312	-864	-4,016	-3,100	-1,807	-1,560	-1,281
40% Exceedance	-772	-357	-578	-1,227	-2,199	-1,638	-664	-3,431	-2,337	-1,599	-1,425	-1,217
50% Exceedance	-668	-276	-490	-835	-1,441	-1,314	-1,186	-2,258	-1,565	-1,310	-1,311	-1,175
60% Exceedance	-552	-154	-385	-715	-1,098	-947	-1,046	-1,625	-1,350	-1,149	-1,261	-1,141
70% Exceedance	-436	-43	-276	-481	-880	-627	-1,215	-1,317	-983	-1,021	-1,215	-1,088
80% Exceedance	-302	-22	-175	-285	-538	-322	-1,409	-989	-751	-903	-1,153	-894
90% Exceedance	-244	58	-53	-210	-308	96	-929	-566	-429	-830	-1,057	-704
Full Simulation Period Average ^a	-678	-446	-754	-1,316	-1,735	-1,406	-1,293	-2,773	-2,529	-1,616	-1,453	-1,254
Wet Water Years (22%)	-1,113	-710	-677	-2,577	-2,563	-2,690	-1,913	-5,204	-5,627	-2,894	-2,117	-1,885
Above Normal Water Years (12%)	-793	-672	-1,236	-2,098	-2,881	-2,235	-843	-3,763	-3,197	-1,669	-1,467	-1,182
Below Normal Water Years (15%)	-821	-678	-847	-1,623	-2,818	-1,662	-1,056	-3,277	-2,572	-1,646	-1,450	-1,240
Dry Water Years (17%)	-543	-438	-1,046	-689	-1,096	-881	-1,179	-1,984	-1,448	-1,201	-1,292	-1,093
Critical Water Years (34%)	-348	-81	-421	-402	-636	-434	-1,213	-1,022	-809	-966	-1,100	-958

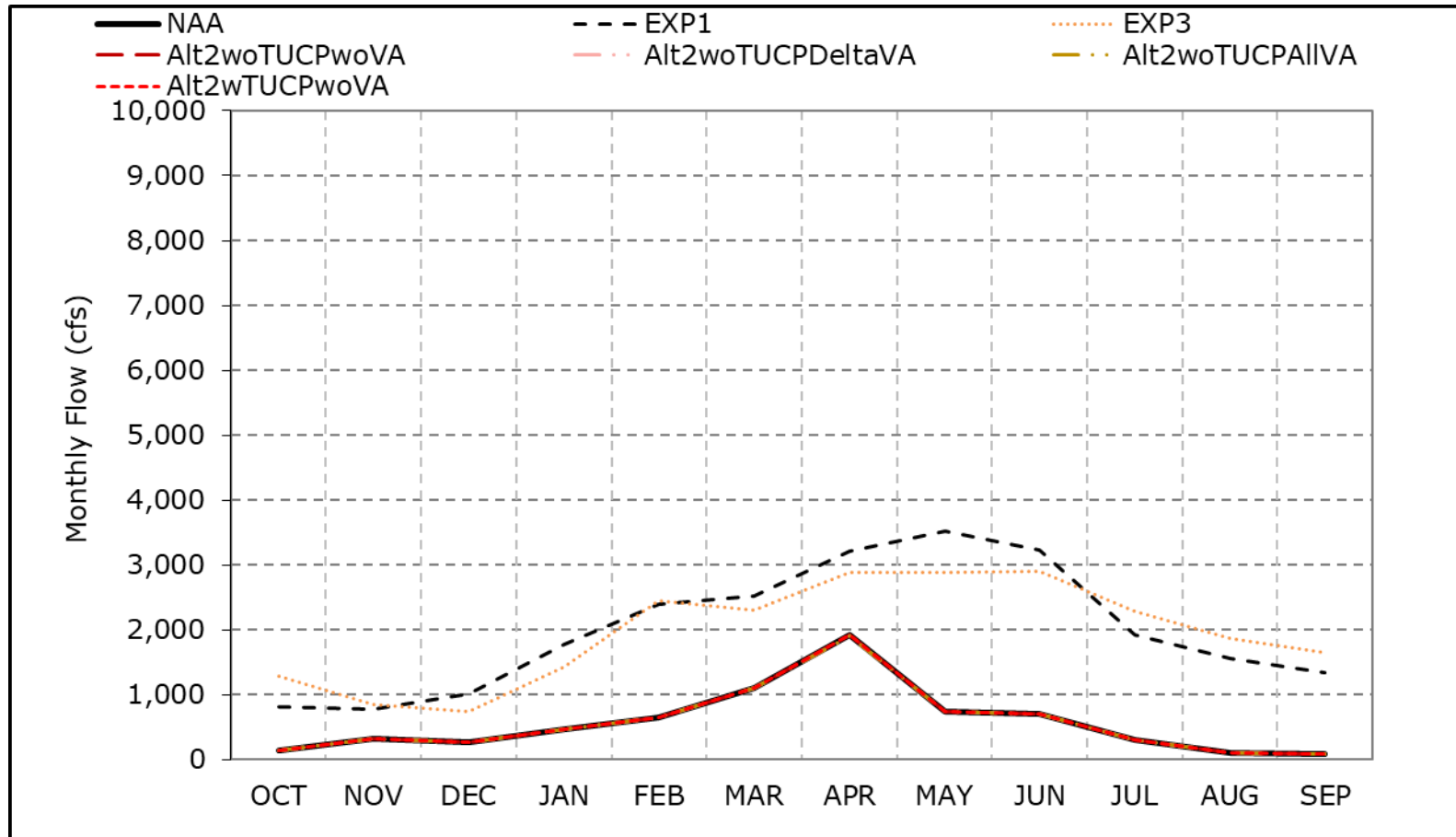
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-16-1. San Joaquin River Flow at Gravelly Ford, Long-Term Average Flow

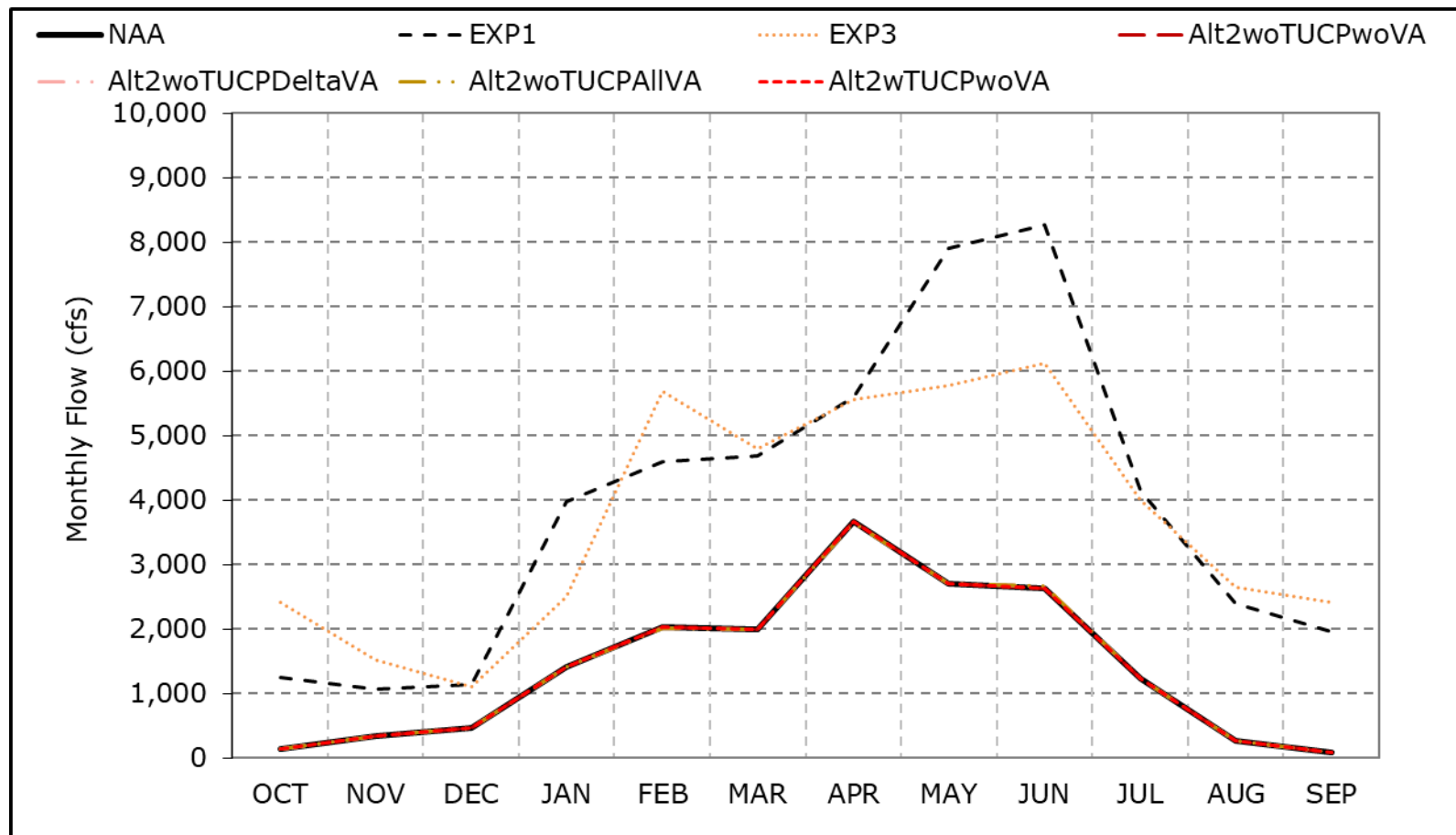


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-2. San Joaquin River Flow at Gravelly Ford, Wet Year Average Flow

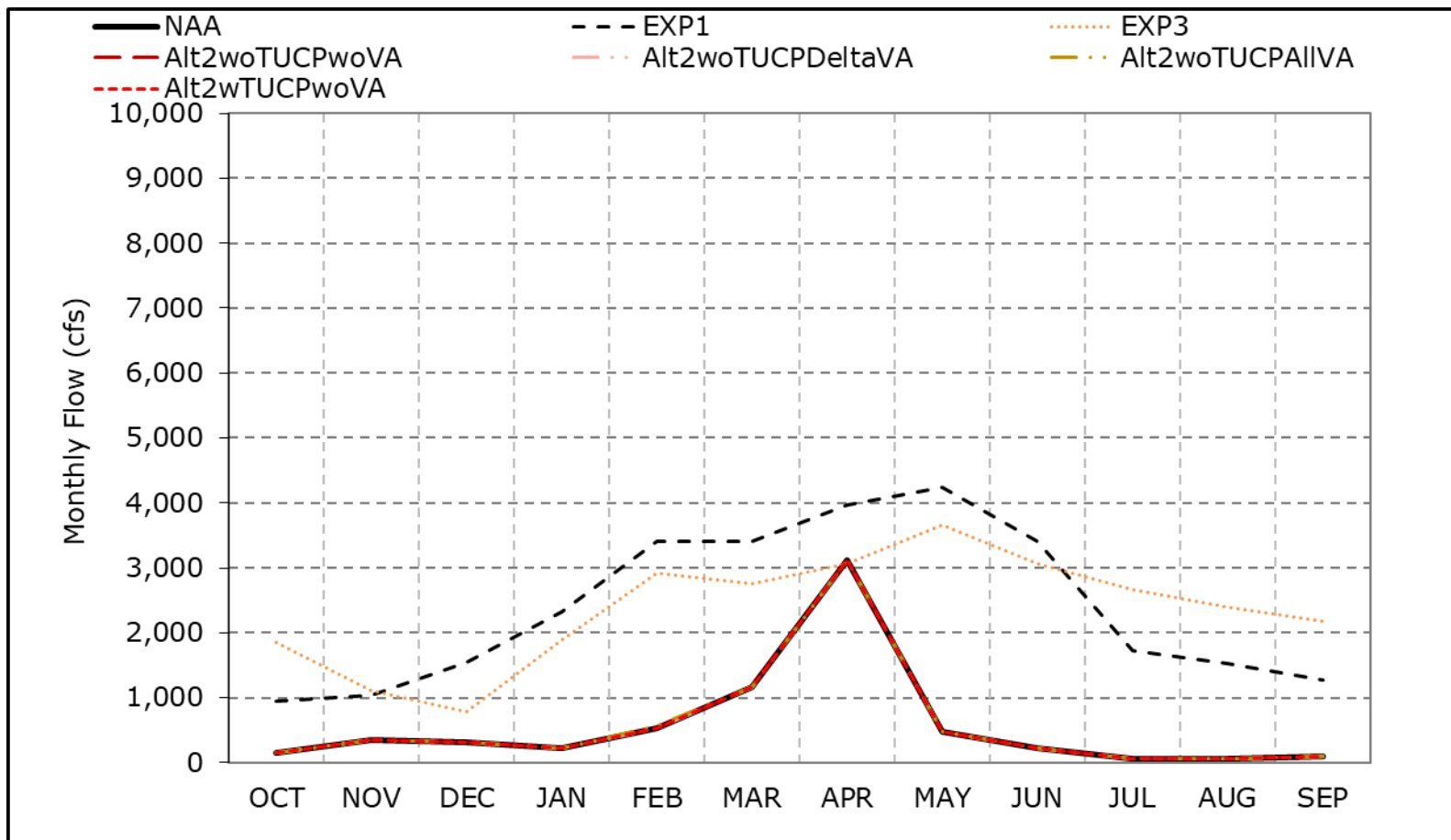


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-3. San Joaquin River Flow at Gravelly Ford, Above Normal Year Average Flow

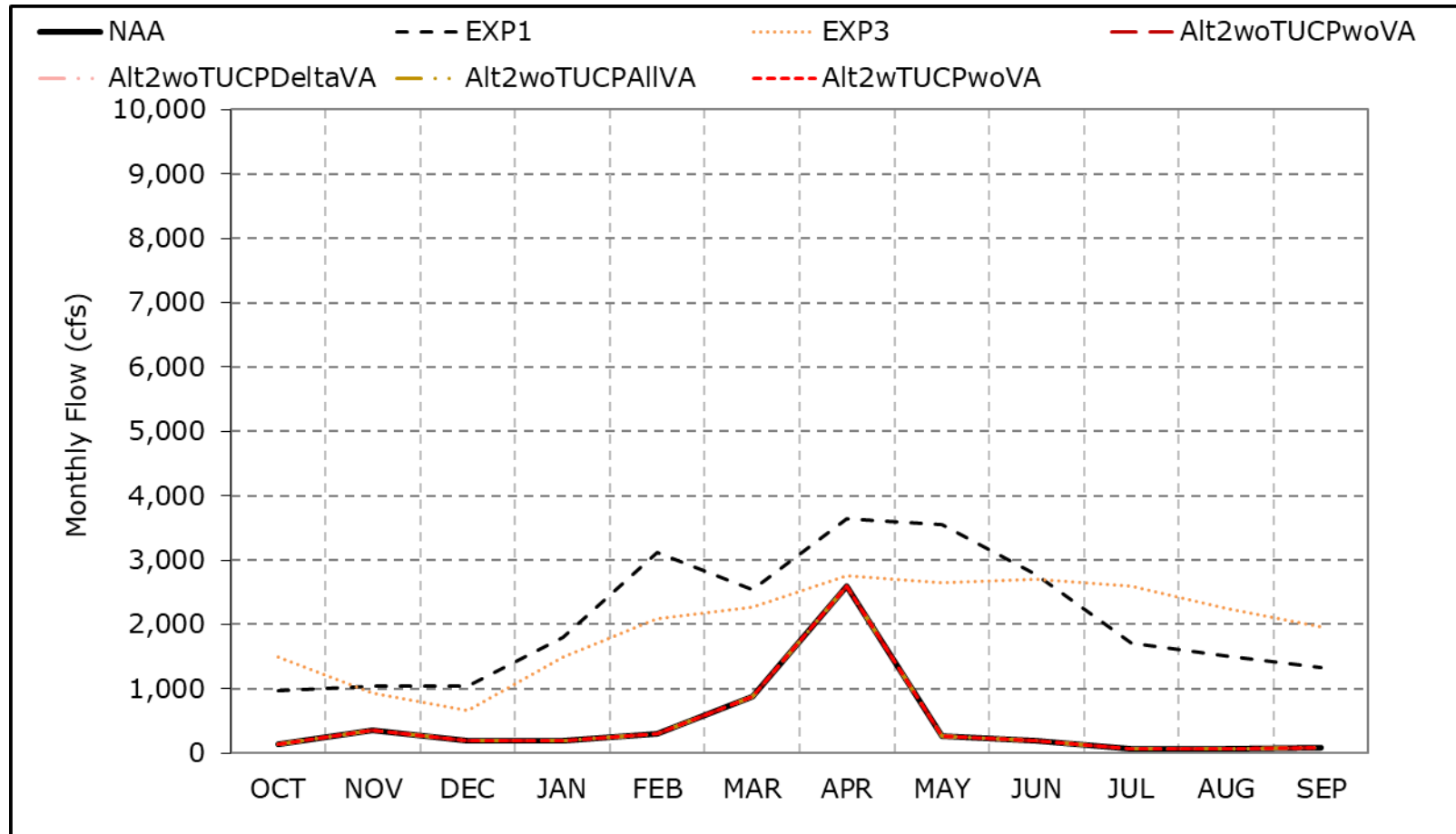


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-4. San Joaquin River Flow at Gravelly Ford, Below Normal Year Average Flow

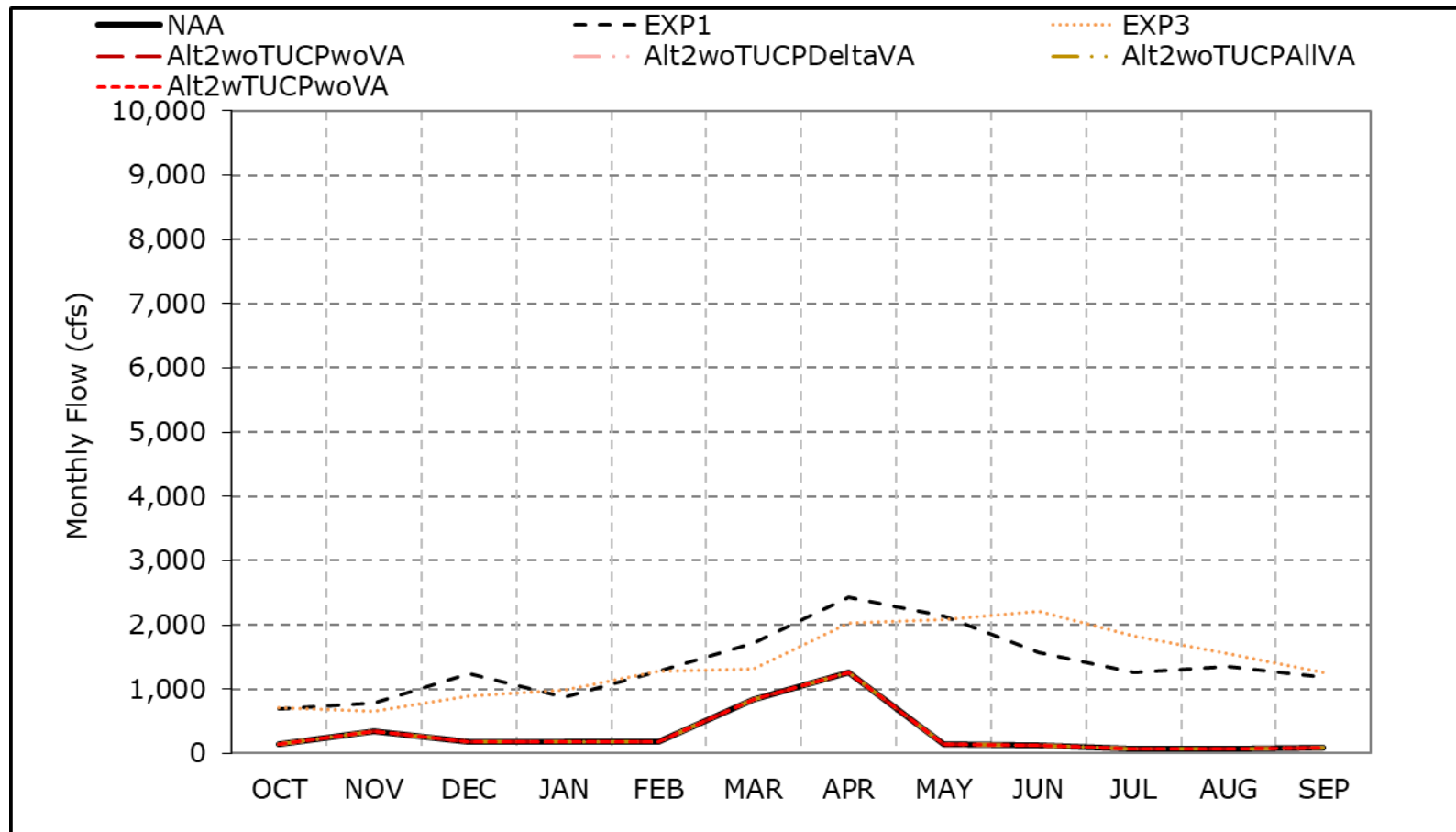


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-5. San Joaquin River Flow at Gravelly Ford, Dry Year Average Flow

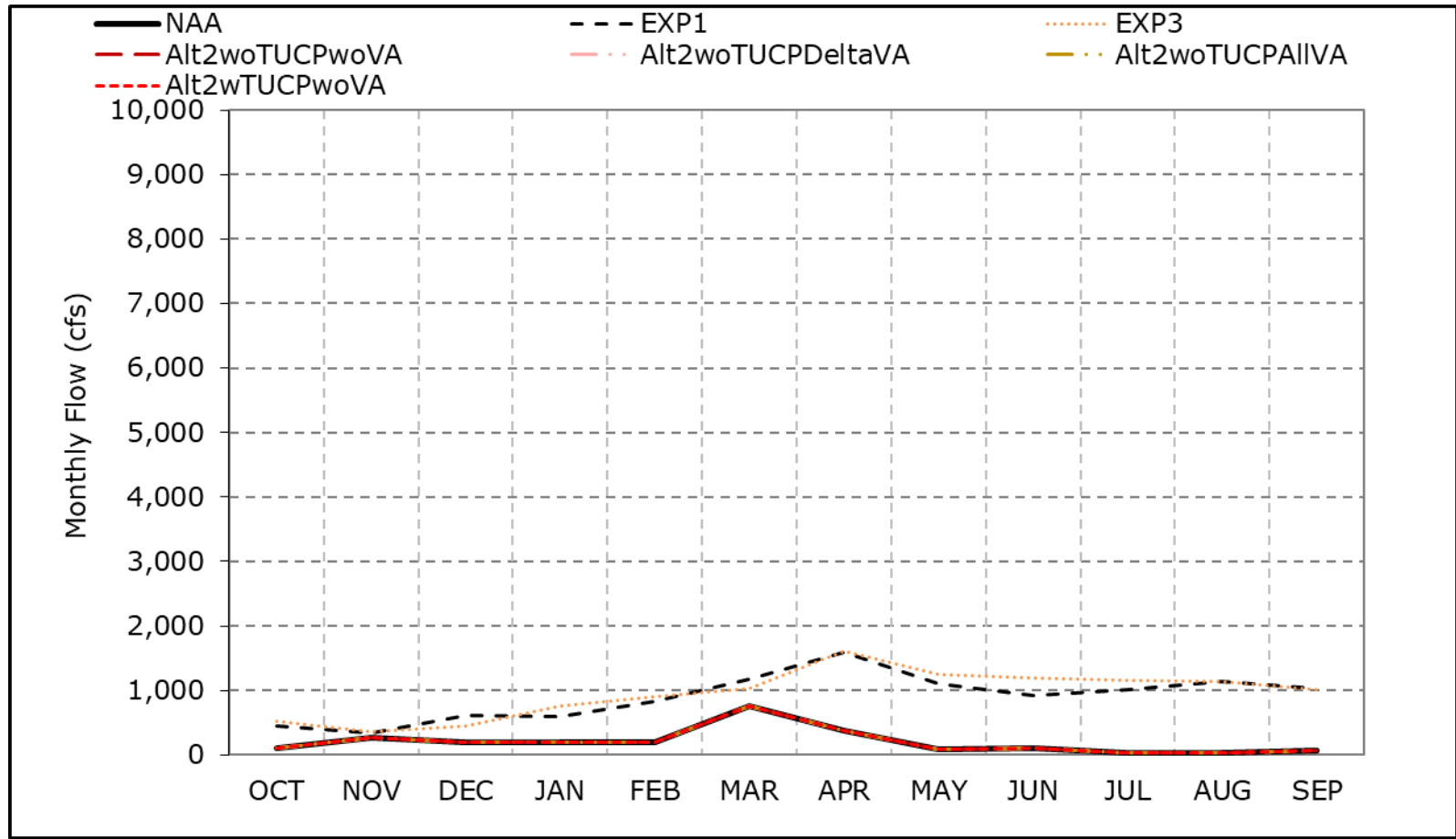


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-6. San Joaquin River Flow at Gravelly Ford, Critical Year Average Flow

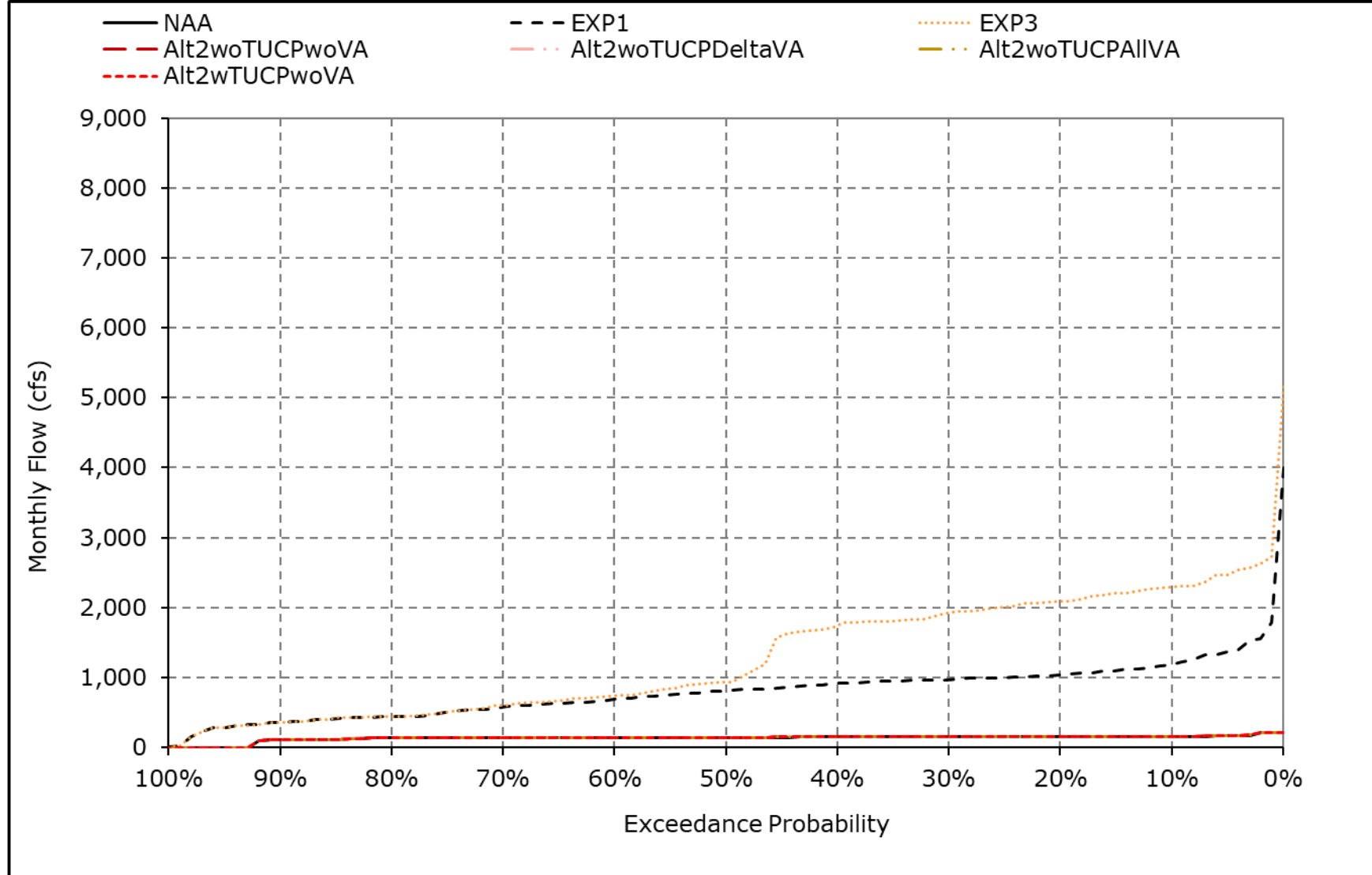


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

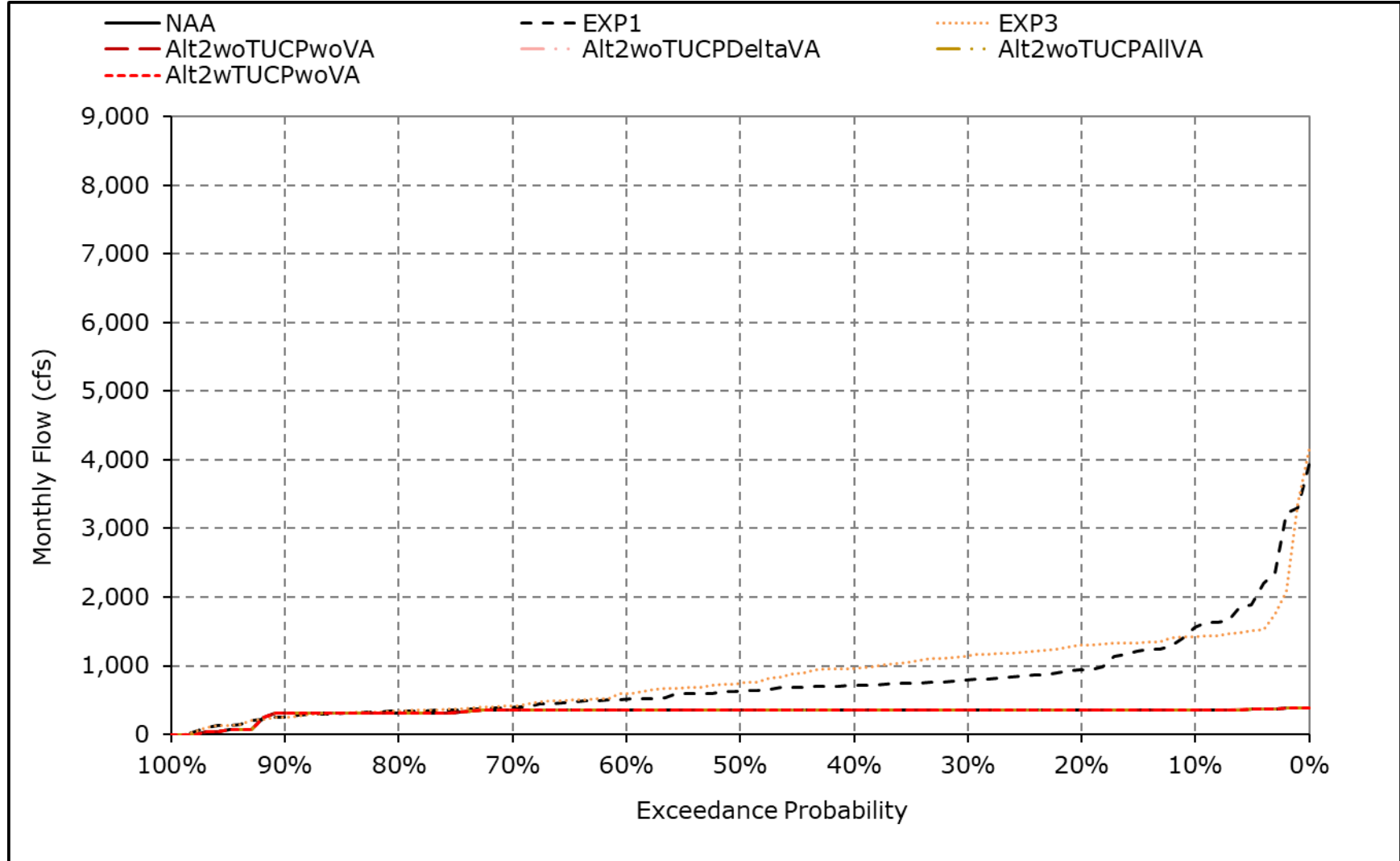
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-7. San Joaquin River Flow at Gravelly Ford, October



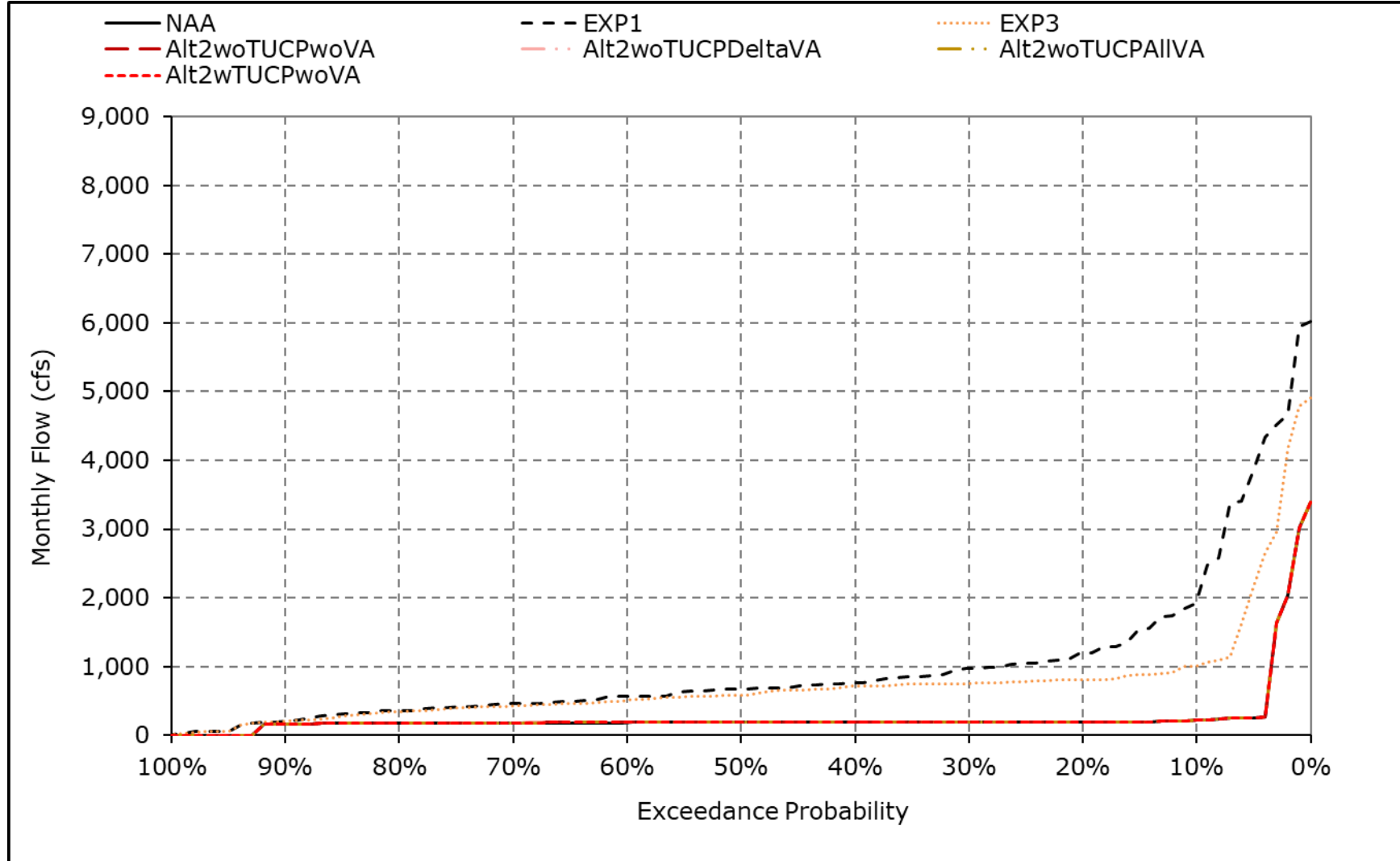
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-8. San Joaquin River Flow at Gravelly Ford, November



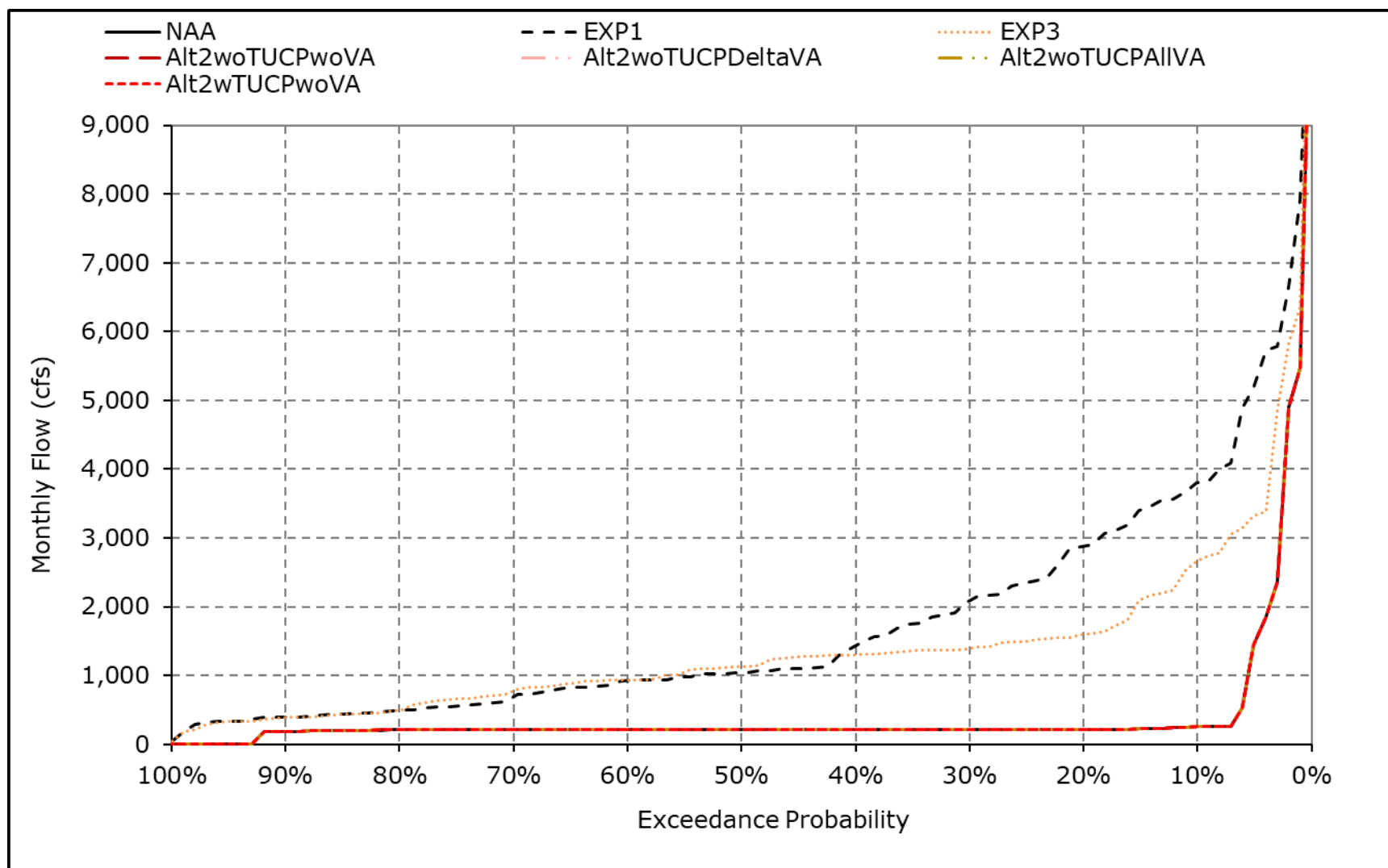
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-9. San Joaquin River Flow at Gravelly Ford, December



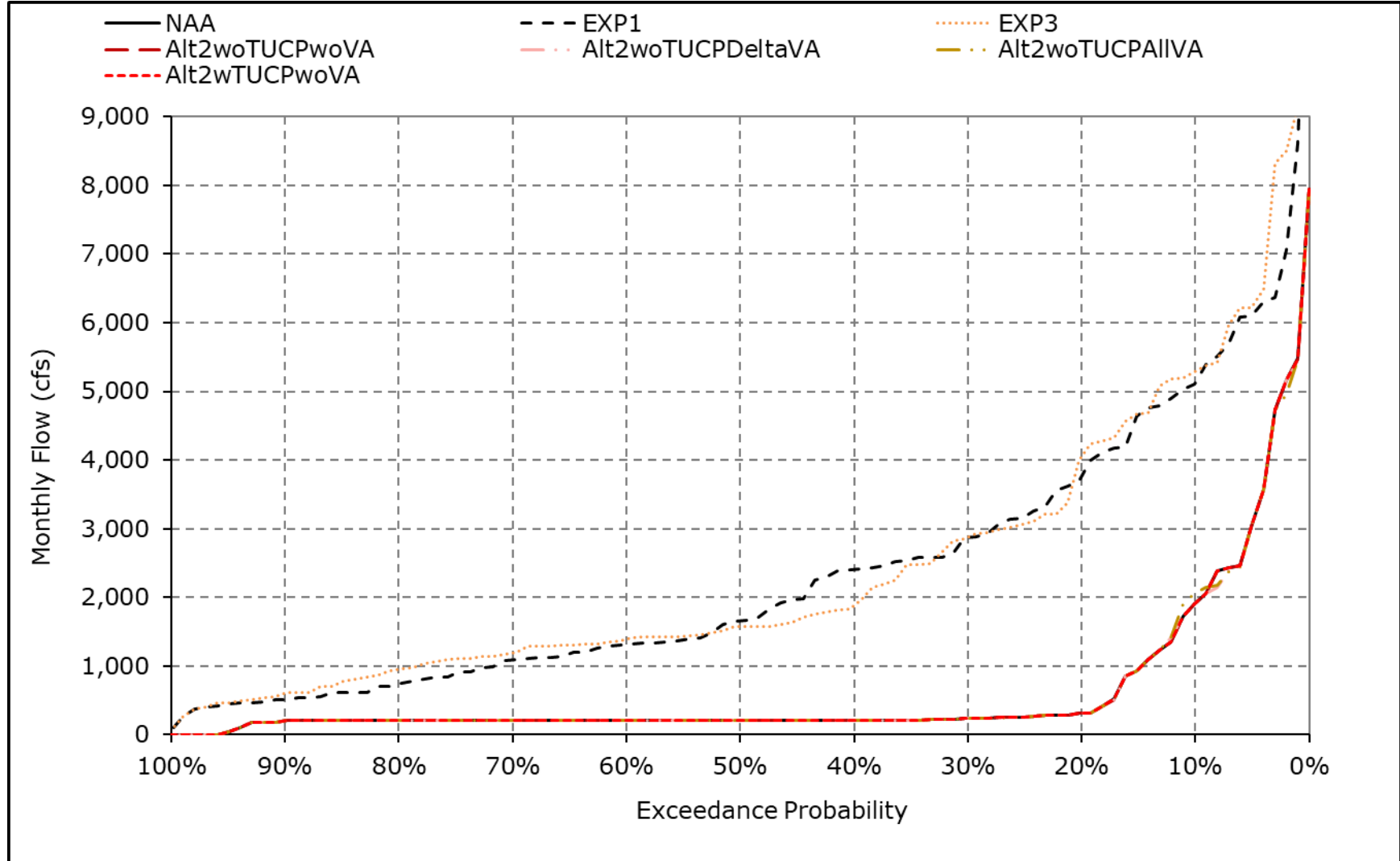
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-10. San Joaquin River Flow at Gravelly Ford, January



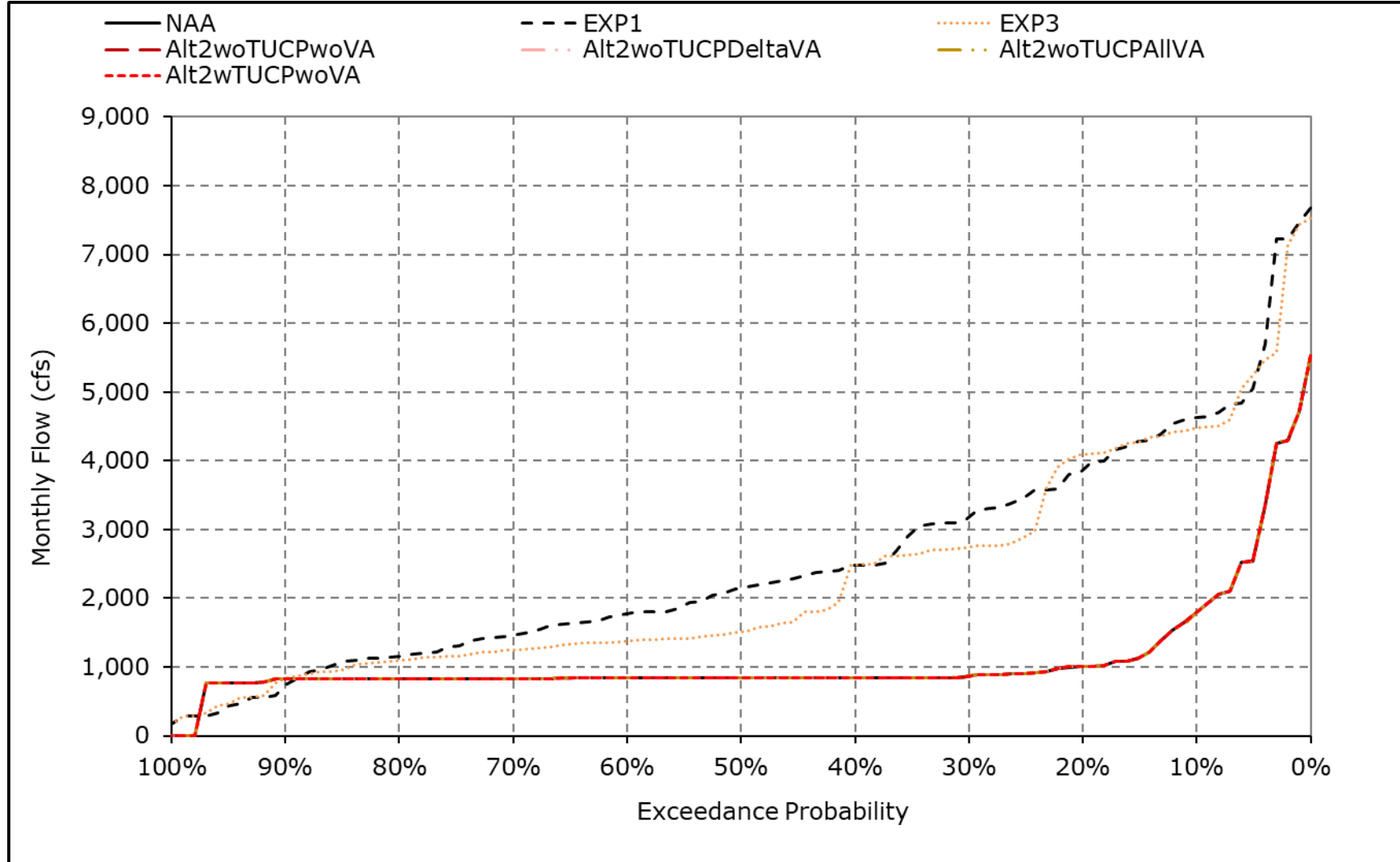
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-11. San Joaquin River Flow at Gravelly Ford, February



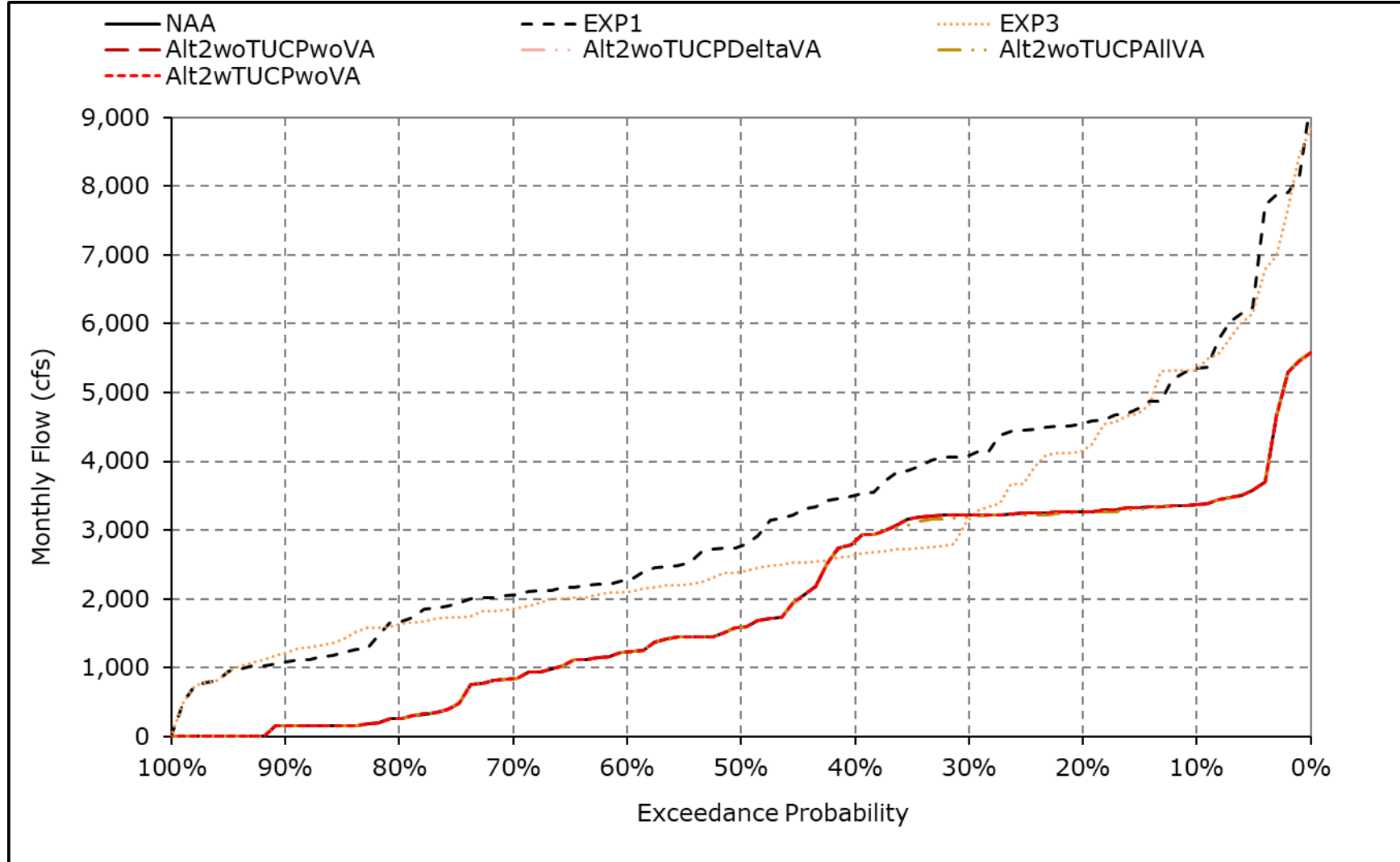
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-12. San Joaquin River Flow at Gravelly Ford, March



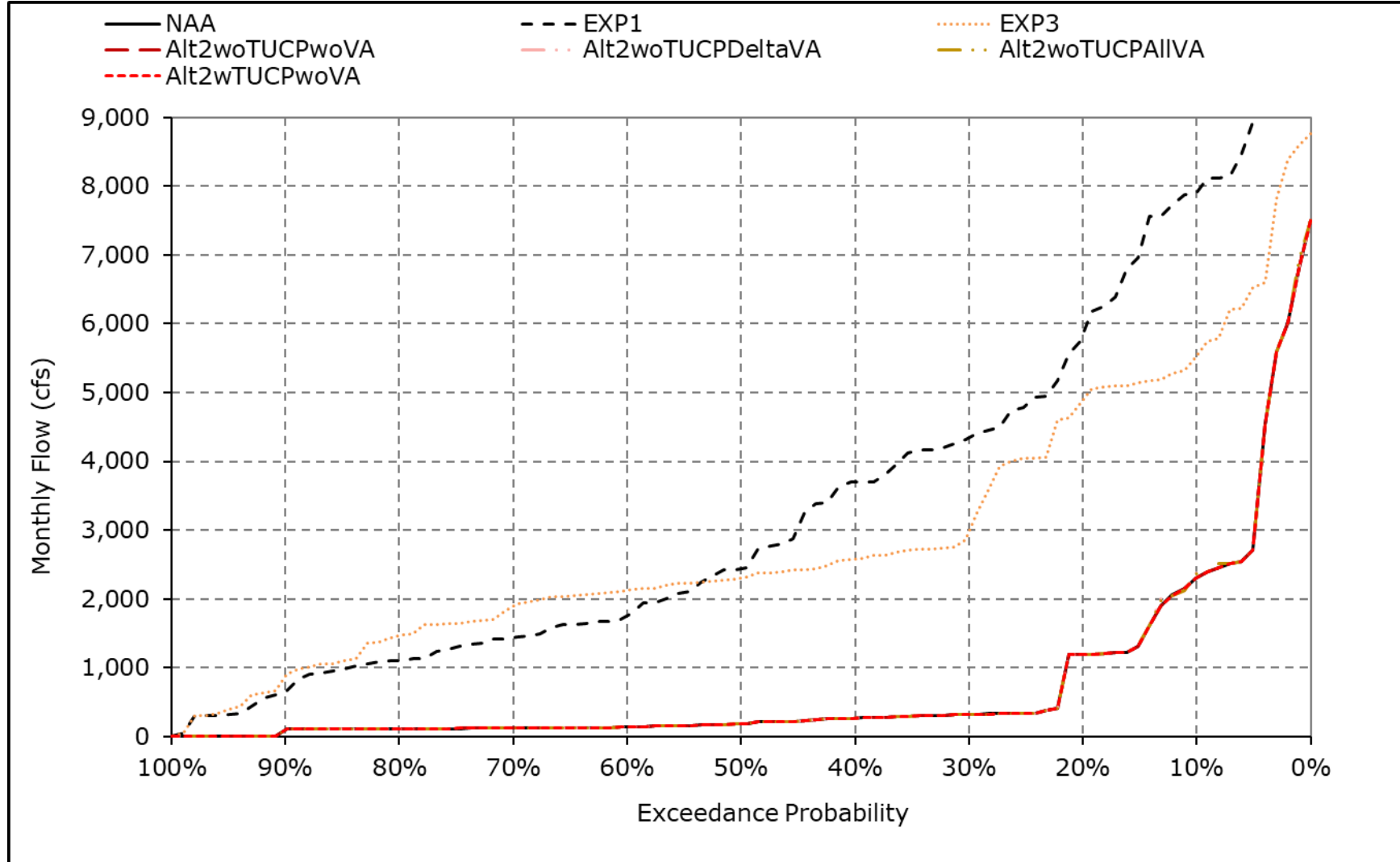
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-13. San Joaquin River Flow at Gravelly Ford, April



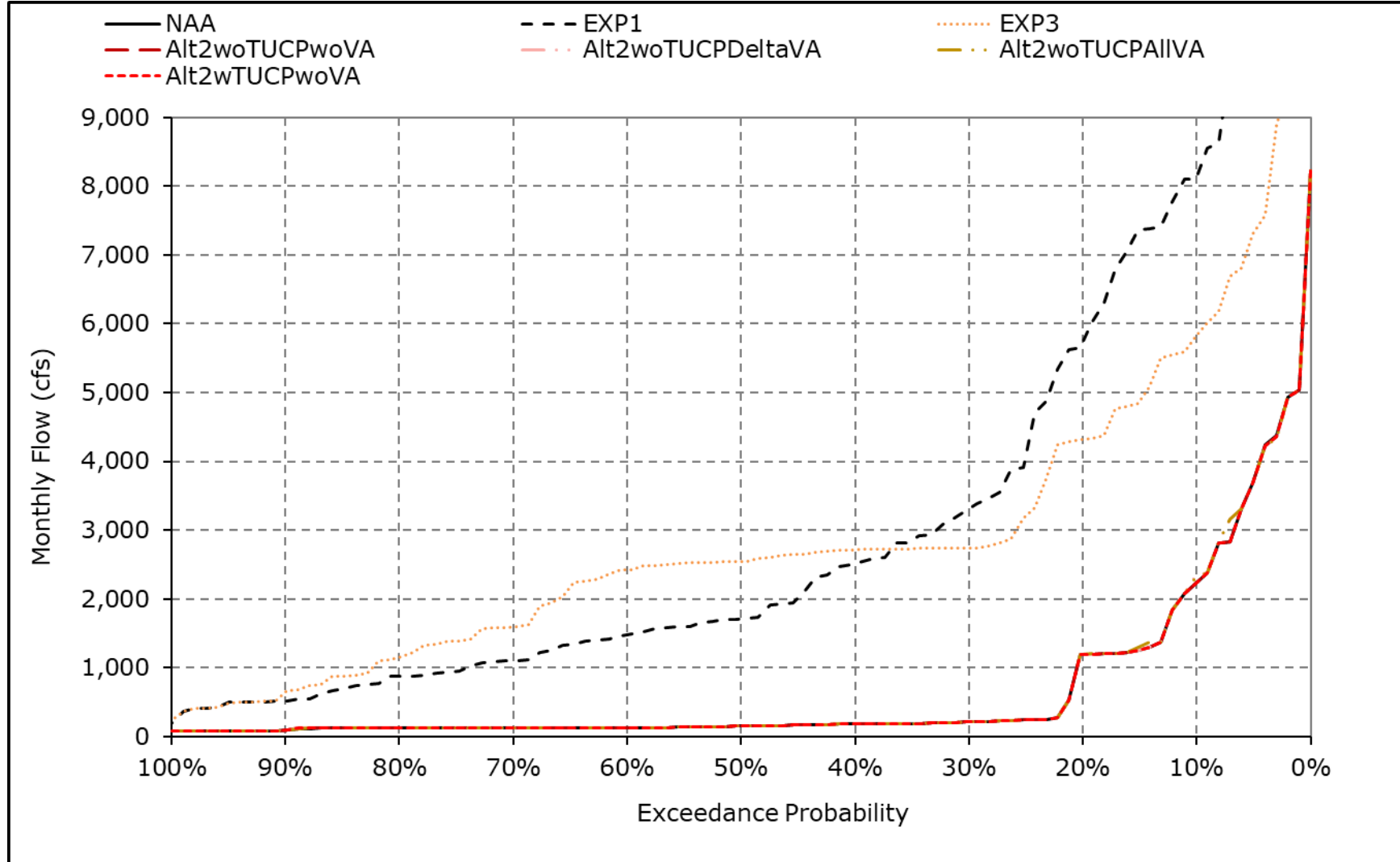
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-14. San Joaquin River Flow at Gravelly Ford, May



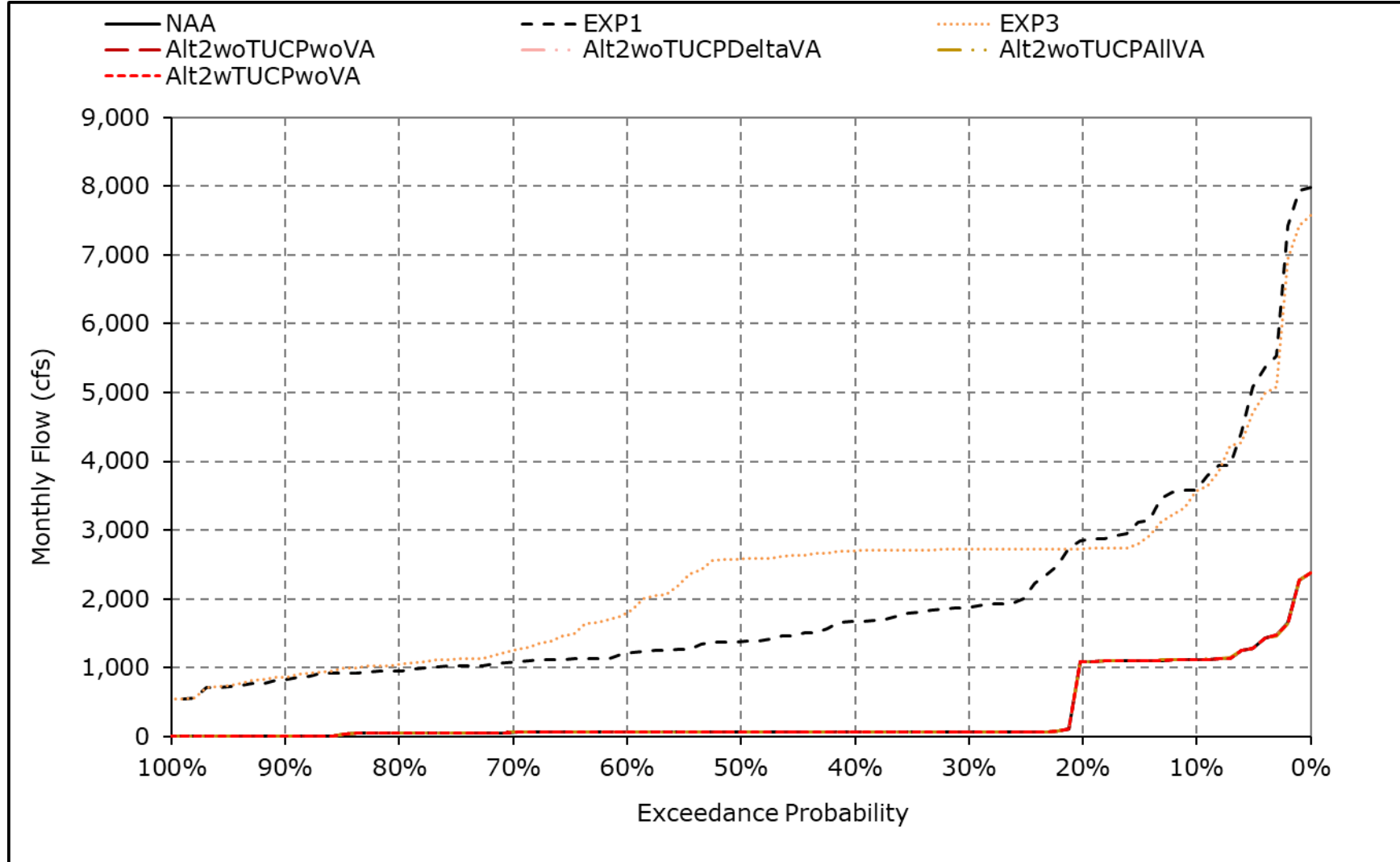
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-15. San Joaquin River Flow at Gravelly Ford, June



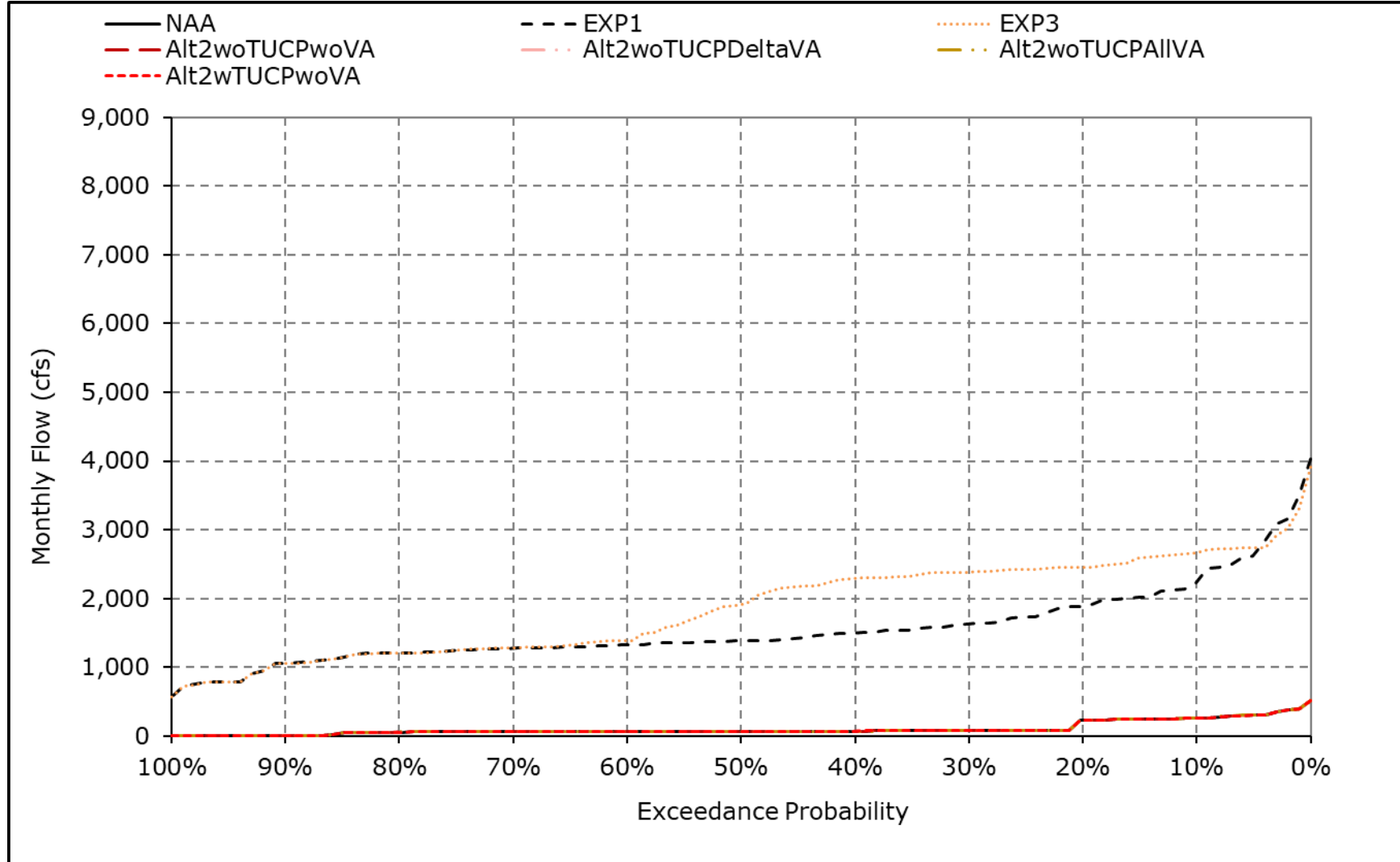
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-16. San Joaquin River Flow at Gravelly Ford, July



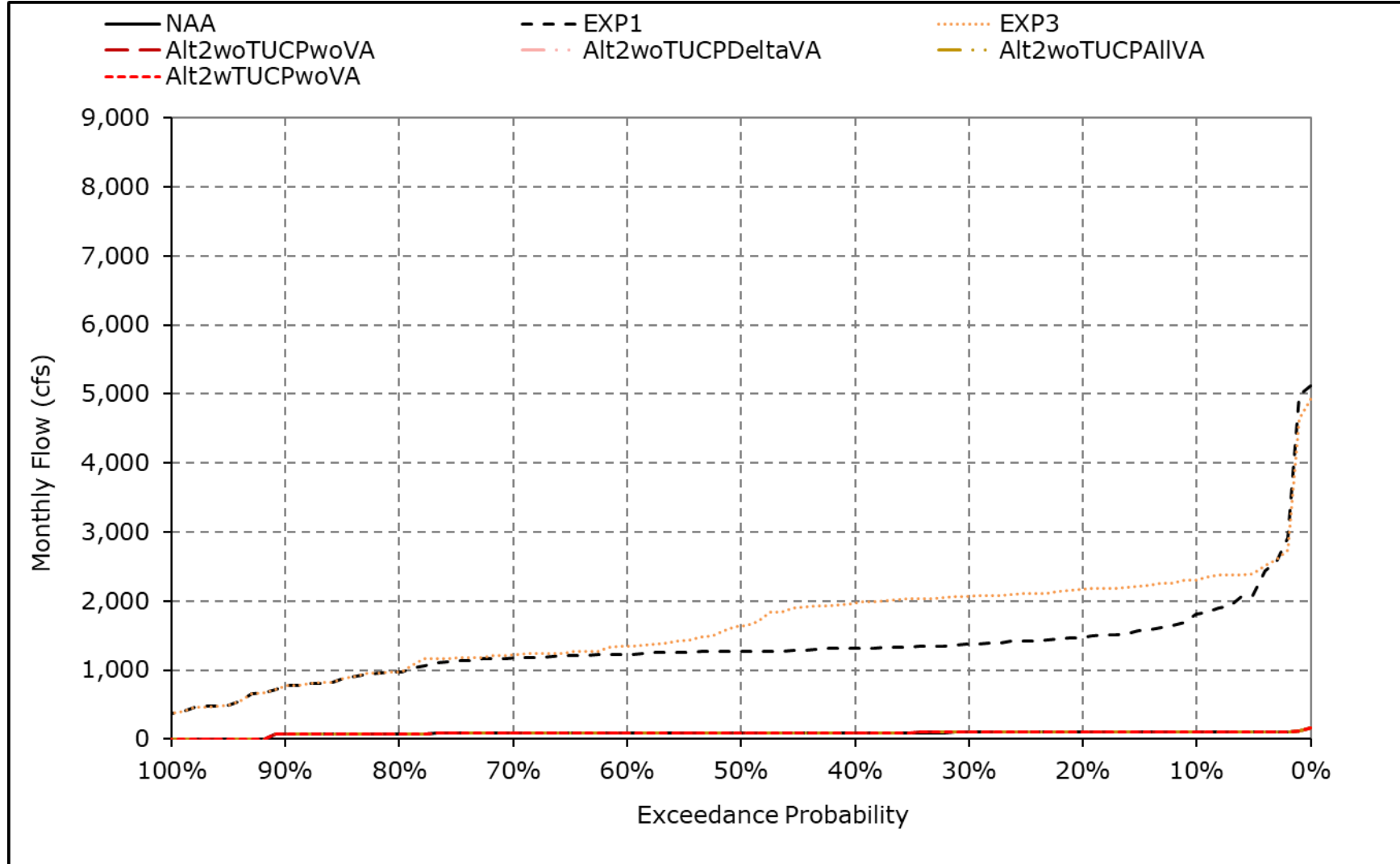
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-17. San Joaquin River Flow at Gravelly Ford, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-16-18. San Joaquin River Flow at Gravelly Ford, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-17-1a. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-1b. San Joaquin River Flow below Sack Dam, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,243	1,514	4,359	2,139	1,806	1,057	45	65
20% Exceedance	115	313	155	175	175	864	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	467	1,039	1,954	642	517	278	38	59
Wet Water Years (22%)	128	416	496	871	1,411	1,955	4,284	2,597	2,092	1,137	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-1c. San Joaquin River Flow below Sack Dam, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	8	8	-86	-21	-11	0	0	0
20% Exceedance	0	0	0	0	0	-6	-15	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	0	0	0	0	4	-2	-8	-4	-1	0	0	0
Wet Water Years (22%)	0	0	0	-1	0	-9	-34	-17	-3	-1	0	0
Above Normal Water Years (12%)	0	0	-1	0	21	2	0	1	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	7	0	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	0	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-2a. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-2b. San Joaquin River Flow below Sack Dam, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,243	1,514	4,359	2,152	1,804	1,057	45	65
20% Exceedance	115	313	155	175	175	863	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,040	1,956	644	518	278	38	59
Wet Water Years (22%)	128	416	496	871	1,408	1,960	4,293	2,605	2,097	1,137	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	192	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-2c. San Joaquin River Flow below Sack Dam, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	8	9	-86	-8	-13	0	0	0
20% Exceedance	0	0	0	0	0	-6	-15	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	0	0	0	0	3	-1	-5	-2	0	0	0	0
Wet Water Years (22%)	0	0	0	-1	-3	-4	-25	-8	2	-1	0	0
Above Normal Water Years (12%)	0	0	-1	0	21	2	0	1	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	7	0	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	0	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-3a. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-3b. San Joaquin River Flow below Sack Dam, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,244	1,514	4,361	2,151	1,804	1,057	45	65
20% Exceedance	115	313	155	175	175	865	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,039	1,956	644	518	279	38	59
Wet Water Years (22%)	128	416	496	871	1,408	1,955	4,296	2,605	2,096	1,138	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	192	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-3c. San Joaquin River Flow below Sack Dam, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	9	9	-84	-9	-12	0	0	0
20% Exceedance	0	0	0	0	0	-5	-15	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	0	0	0	0	3	-2	-5	-2	0	0	0	0
Wet Water Years (22%)	0	0	0	-1	-3	-8	-22	-8	1	0	0	0
Above Normal Water Years (12%)	0	0	-1	0	21	2	0	1	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	7	0	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	0	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-4a. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-4b. San Joaquin River Flow below Sack Dam, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,244	1,515	4,358	2,143	1,806	1,057	45	65
20% Exceedance	115	313	155	175	175	864	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,039	1,955	642	517	278	38	59
Wet Water Years (22%)	128	416	496	870	1,406	1,955	4,289	2,597	2,092	1,137	45	65
Above Normal Water Years (12%)	115	313	293	354	397	1,000	2,974	189	85	45	45	65
Below Normal Water Years (15%)	115	313	160	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-4c. San Joaquin River Flow below Sack Dam, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	8	9	-86	-18	-11	0	0	0
20% Exceedance	0	0	0	0	0	-6	-15	0	0	0	0	0
30% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
40% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
60% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	0	0	0	0	2	-2	-6	-4	-1	0	0	0
Wet Water Years (22%)	0	0	0	-2	-5	-9	-29	-16	-3	-1	0	0
Above Normal Water Years (12%)	0	0	-1	0	20	2	0	-1	0	0	0	0
Below Normal Water Years (15%)	0	0	0	0	7	0	0	0	0	0	0	0
Dry Water Years (17%)	0	0	0	0	0	0	0	0	0	0	0	0
Critical Water Years (34%)	0	0	0	0	0	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-5a. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-5b. San Joaquin River Flow below Sack Dam, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	117	84	448	1,592	2,343	2,105	2,409	2,681	1,492	217	84	96
20% Exceedance	90	49	110	220	1,607	1,620	1,544	1,177	316	77	65	66
30% Exceedance	63	36	84	83	1,269	1,364	900	608	125	24	38	44
40% Exceedance	46	12	59	51	726	638	653	353	50	1	16	30
50% Exceedance	1	0	27	19	164	142	125	74	16	0	0	8
60% Exceedance	0	0	15	11	68	73	76	33	0	0	0	0
70% Exceedance	0	0	0	0	28	18	23	15	0	0	0	0
80% Exceedance	0	0	0	0	0	0	14	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	72	91	241	436	871	868	868	748	450	120	40	58
Wet Water Years (22%)	251	366	562	1,091	2,415	2,465	2,723	2,479	1,809	473	101	182
Above Normal Water Years (12%)	62	43	351	1,003	1,492	1,285	1,039	926	225	45	62	71
Below Normal Water Years (15%)	45	32	197	417	932	1,000	792	545	118	39	53	44
Dry Water Years (17%)	5	0	135	33	56	54	87	40	30	22	12	12
Critical Water Years (34%)	2	1	60	21	33	36	31	10	6	3	2	3

Table F.2.2-17-5c. San Joaquin River Flow below Sack Dam, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-230	292	1,412	1,108	600	-2,036	521	-325	-840	39	31
20% Exceedance	-25	-265	-45	45	1,432	751	-1,569	46	-815	-981	20	1
30% Exceedance	-52	-278	-71	-92	1,094	596	-2,068	523	40	-21	-7	-21
40% Exceedance	-69	-301	-96	-124	551	-129	-2,062	268	-35	-44	-29	-35
50% Exceedance	-114	-313	-128	-156	-11	-625	-1,334	-11	-69	-45	-45	-57
60% Exceedance	-115	-313	-140	-164	-107	-694	-902	-52	-85	-45	-45	-65
70% Exceedance	-115	-313	-155	-175	-147	-750	-696	-70	-85	-45	-45	-65
80% Exceedance	-115	-313	-155	-175	-175	-768	-198	-85	-85	-45	-45	-65
90% Exceedance	-115	-313	-155	-175	-175	-768	-125	-72	-32	0	0	-65
Full Simulation Period Average ^a	-39	-221	-6	89	408	-173	-1,093	103	-68	-158	2	-1
Wet Water Years (22%)	123	-51	65	219	1,004	502	-1,595	-135	-286	-665	56	117
Above Normal Water Years (12%)	-53	-270	57	648	1,115	287	-1,935	735	140	0	17	6
Below Normal Water Years (15%)	-70	-281	37	214	763	194	-1,636	460	33	-6	8	-21
Dry Water Years (17%)	-112	-313	-21	-122	-99	-714	-984	-45	-54	-21	-30	-53
Critical Water Years (34%)	-89	-240	-92	-143	-132	-664	-287	-49	-52	-23	-24	-45

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-6a. San Joaquin River Flow below Sack Dam, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	431	1,444	1,922	2,380	2,087	2,431	2,851	2,031	233	84	226
20% Exceedance	44	106	609	1,368	1,848	1,720	1,642	1,392	395	0	1	79
30% Exceedance	0	35	342	918	1,493	1,455	1,190	814	217	0	0	24
40% Exceedance	0	0	250	438	1,200	1,077	927	599	1	0	0	0
50% Exceedance	0	0	168	118	622	766	622	382	0	0	0	0
60% Exceedance	0	0	84	27	227	436	332	49	0	0	0	0
70% Exceedance	0	0	9	0	105	195	221	0	0	0	0	0
80% Exceedance	0	0	0	0	0	28	10	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	60	184	490	705	1,052	1,042	1,028	932	597	119	37	100
Wet Water Years (22%)	204	440	752	1,768	2,553	2,486	2,758	2,939	2,449	526	157	355
Above Normal Water Years (12%)	28	163	874	1,371	1,613	1,526	1,249	1,036	243	21	11	0
Below Normal Water Years (15%)	68	279	635	807	1,406	1,138	970	660	142	1	6	39
Dry Water Years (17%)	8	118	412	93	258	438	453	266	30	0	0	6
Critical Water Years (34%)	1	11	139	42	124	197	144	51	8	1	2	44

Table F.2.2-17-6b. San Joaquin River Flow below Sack Dam, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,243	1,514	4,359	2,139	1,806	1,057	45	65
20% Exceedance	115	313	155	175	175	864	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	467	1,039	1,954	642	517	278	38	59
Wet Water Years (22%)	128	416	496	871	1,411	1,955	4,284	2,597	2,092	1,137	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-6c. San Joaquin River Flow below Sack Dam, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-118	-1,288	-1,742	-1,137	-573	1,927	-712	-226	824	-39	-161
20% Exceedance	71	208	-454	-1,193	-1,673	-856	1,457	-261	736	1,057	44	-14
30% Exceedance	115	278	-187	-743	-1,318	-687	1,777	-729	-132	45	45	41
40% Exceedance	115	313	-95	-263	-1,025	-309	1,788	-514	84	45	45	65
50% Exceedance	115	313	-13	57	-447	2	837	-297	85	45	45	65
60% Exceedance	115	313	71	148	-52	332	646	36	85	45	45	65
70% Exceedance	115	313	146	175	70	572	498	85	85	45	45	65
80% Exceedance	115	313	155	175	175	739	203	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	50	129	-242	-358	-586	-3	926	-291	-80	160	1	-41
Wet Water Years (22%)	-76	-24	-256	-897	-1,142	-532	1,526	-342	-357	611	-112	-290
Above Normal Water Years (12%)	87	151	-581	-1,016	-1,216	-526	1,726	-845	-158	24	34	65
Below Normal Water Years (15%)	47	34	-476	-605	-1,230	-332	1,458	-575	-57	44	39	26
Dry Water Years (17%)	109	195	-256	61	-104	329	617	-181	54	42	42	59
Critical Water Years (34%)	91	231	13	123	40	503	174	9	50	25	25	4

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-7a. San Joaquin River Flow below Sack Dam, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	431	1,444	1,922	2,380	2,087	2,431	2,851	2,031	233	84	226
20% Exceedance	44	106	609	1,368	1,848	1,720	1,642	1,392	395	0	1	79
30% Exceedance	0	35	342	918	1,493	1,455	1,190	814	217	0	0	24
40% Exceedance	0	0	250	438	1,200	1,077	927	599	1	0	0	0
50% Exceedance	0	0	168	118	622	766	622	382	0	0	0	0
60% Exceedance	0	0	84	27	227	436	332	49	0	0	0	0
70% Exceedance	0	0	9	0	105	195	221	0	0	0	0	0
80% Exceedance	0	0	0	0	0	28	10	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	60	184	490	705	1,052	1,042	1,028	932	597	119	37	100
Wet Water Years (22%)	204	440	752	1,768	2,553	2,486	2,758	2,939	2,449	526	157	355
Above Normal Water Years (12%)	28	163	874	1,371	1,613	1,526	1,249	1,036	243	21	11	0
Below Normal Water Years (15%)	68	279	635	807	1,406	1,138	970	660	142	1	6	39
Dry Water Years (17%)	8	118	412	93	258	438	453	266	30	0	0	6
Critical Water Years (34%)	1	11	139	42	124	197	144	51	8	1	2	44

Table F.2.2-17-7b. San Joaquin River Flow below Sack Dam, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,243	1,514	4,359	2,152	1,804	1,057	45	65
20% Exceedance	115	313	155	175	175	863	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,040	1,956	644	518	278	38	59
Wet Water Years (22%)	128	416	496	871	1,408	1,960	4,293	2,605	2,097	1,137	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	192	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-7c. San Joaquin River Flow below Sack Dam, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-118	-1,288	-1,742	-1,137	-572	1,928	-699	-227	824	-39	-161
20% Exceedance	71	208	-454	-1,193	-1,673	-857	1,457	-261	736	1,057	44	-14
30% Exceedance	115	278	-187	-743	-1,318	-687	1,777	-729	-132	45	45	41
40% Exceedance	115	313	-95	-263	-1,025	-309	1,788	-514	84	45	45	65
50% Exceedance	115	313	-13	57	-447	2	837	-297	85	45	45	65
60% Exceedance	115	313	71	148	-52	332	646	36	85	45	45	65
70% Exceedance	115	313	146	175	70	572	498	85	85	45	45	65
80% Exceedance	115	313	155	175	175	739	203	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	50	129	-243	-358	-586	-2	928	-289	-79	160	1	-41
Wet Water Years (22%)	-76	-24	-256	-897	-1,145	-527	1,535	-333	-352	611	-112	-290
Above Normal Water Years (12%)	87	151	-581	-1,016	-1,216	-526	1,726	-845	-158	24	34	65
Below Normal Water Years (15%)	47	34	-476	-605	-1,230	-332	1,458	-575	-57	44	39	26
Dry Water Years (17%)	109	195	-256	61	-104	329	617	-181	54	42	42	59
Critical Water Years (34%)	91	231	13	123	40	503	174	9	50	25	25	4

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-8a. San Joaquin River Flow below Sack Dam, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	431	1,444	1,922	2,380	2,087	2,431	2,851	2,031	233	84	226
20% Exceedance	44	106	609	1,368	1,848	1,720	1,642	1,392	395	0	1	79
30% Exceedance	0	35	342	918	1,493	1,455	1,190	814	217	0	0	24
40% Exceedance	0	0	250	438	1,200	1,077	927	599	1	0	0	0
50% Exceedance	0	0	168	118	622	766	622	382	0	0	0	0
60% Exceedance	0	0	84	27	227	436	332	49	0	0	0	0
70% Exceedance	0	0	9	0	105	195	221	0	0	0	0	0
80% Exceedance	0	0	0	0	0	28	10	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	60	184	490	705	1,052	1,042	1,028	932	597	119	37	100
Wet Water Years (22%)	204	440	752	1,768	2,553	2,486	2,758	2,939	2,449	526	157	355
Above Normal Water Years (12%)	28	163	874	1,371	1,613	1,526	1,249	1,036	243	21	11	0
Below Normal Water Years (15%)	68	279	635	807	1,406	1,138	970	660	142	1	6	39
Dry Water Years (17%)	8	118	412	93	258	438	453	266	30	0	0	6
Critical Water Years (34%)	1	11	139	42	124	197	144	51	8	1	2	44

Table F.2.2-17-8b. San Joaquin River Flow below Sack Dam, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	181	1,244	1,514	4,361	2,151	1,804	1,057	45	65
20% Exceedance	115	313	155	175	175	865	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,039	1,956	644	518	279	38	59
Wet Water Years (22%)	128	416	496	871	1,408	1,955	4,296	2,605	2,096	1,138	45	65
Above Normal Water Years (12%)	115	313	293	355	397	1,000	2,974	192	85	45	45	65
Below Normal Water Years (15%)	115	313	159	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-8c. San Joaquin River Flow below Sack Dam, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-118	-1,288	-1,741	-1,136	-572	1,930	-700	-227	824	-39	-161
20% Exceedance	71	208	-454	-1,193	-1,673	-856	1,457	-261	736	1,057	44	-14
30% Exceedance	115	278	-187	-743	-1,318	-687	1,777	-729	-132	45	45	41
40% Exceedance	115	313	-95	-263	-1,025	-309	1,788	-514	84	45	45	65
50% Exceedance	115	313	-13	57	-447	2	837	-297	85	45	45	65
60% Exceedance	115	313	71	148	-52	332	646	36	85	45	45	65
70% Exceedance	115	313	146	175	70	572	498	85	85	45	45	65
80% Exceedance	115	313	155	175	175	739	203	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	50	129	-243	-358	-586	-3	928	-289	-79	160	1	-41
Wet Water Years (22%)	-76	-24	-256	-898	-1,145	-531	1,537	-334	-353	612	-112	-290
Above Normal Water Years (12%)	87	151	-581	-1,016	-1,216	-526	1,726	-845	-158	24	34	65
Below Normal Water Years (15%)	47	34	-476	-605	-1,230	-332	1,458	-575	-57	44	39	26
Dry Water Years (17%)	109	195	-256	61	-104	329	617	-181	54	42	42	59
Critical Water Years (34%)	91	231	13	123	40	503	174	9	50	25	25	4

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-9a. San Joaquin River Flow below Sack Dam, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	431	1,444	1,922	2,380	2,087	2,431	2,851	2,031	233	84	226
20% Exceedance	44	106	609	1,368	1,848	1,720	1,642	1,392	395	0	1	79
30% Exceedance	0	35	342	918	1,493	1,455	1,190	814	217	0	0	24
40% Exceedance	0	0	250	438	1,200	1,077	927	599	1	0	0	0
50% Exceedance	0	0	168	118	622	766	622	382	0	0	0	0
60% Exceedance	0	0	84	27	227	436	332	49	0	0	0	0
70% Exceedance	0	0	9	0	105	195	221	0	0	0	0	0
80% Exceedance	0	0	0	0	0	28	10	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	60	184	490	705	1,052	1,042	1,028	932	597	119	37	100
Wet Water Years (22%)	204	440	752	1,768	2,553	2,486	2,758	2,939	2,449	526	157	355
Above Normal Water Years (12%)	28	163	874	1,371	1,613	1,526	1,249	1,036	243	21	11	0
Below Normal Water Years (15%)	68	279	635	807	1,406	1,138	970	660	142	1	6	39
Dry Water Years (17%)	8	118	412	93	258	438	453	266	30	0	0	6
Critical Water Years (34%)	1	11	139	42	124	197	144	51	8	1	2	44

Table F.2.2-17-9b. San Joaquin River Flow below Sack Dam, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,244	1,515	4,358	2,143	1,806	1,057	45	65
20% Exceedance	115	313	155	175	175	864	3,099	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	466	1,039	1,955	642	517	278	38	59
Wet Water Years (22%)	128	416	496	870	1,406	1,955	4,289	2,597	2,092	1,137	45	65
Above Normal Water Years (12%)	115	313	293	354	397	1,000	2,974	189	85	45	45	65
Below Normal Water Years (15%)	115	313	160	202	176	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-9c. San Joaquin River Flow below Sack Dam, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-118	-1,288	-1,742	-1,137	-572	1,927	-709	-226	824	-39	-161
20% Exceedance	71	208	-454	-1,193	-1,673	-856	1,457	-261	736	1,057	44	-14
30% Exceedance	115	278	-187	-743	-1,318	-687	1,777	-729	-132	45	45	41
40% Exceedance	115	313	-95	-263	-1,025	-309	1,788	-514	84	45	45	65
50% Exceedance	115	313	-13	57	-447	2	837	-297	85	45	45	65
60% Exceedance	115	313	71	148	-52	332	646	36	85	45	45	65
70% Exceedance	115	313	146	175	70	572	498	85	85	45	45	65
80% Exceedance	115	313	155	175	175	739	203	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	50	129	-242	-358	-587	-3	927	-291	-80	160	1	-41
Wet Water Years (22%)	-76	-24	-256	-898	-1,147	-531	1,531	-342	-357	612	-112	-290
Above Normal Water Years (12%)	87	151	-581	-1,017	-1,216	-526	1,726	-847	-158	24	34	65
Below Normal Water Years (15%)	47	34	-476	-605	-1,230	-332	1,458	-575	-57	44	39	26
Dry Water Years (17%)	109	195	-256	61	-104	329	617	-181	54	42	42	59
Critical Water Years (34%)	91	231	13	123	40	503	174	9	50	25	25	4

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-17-10a. San Joaquin River Flow below Sack Dam, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	113	431	1,444	1,922	2,380	2,087	2,431	2,851	2,031	233	84	226
20% Exceedance	44	106	609	1,368	1,848	1,720	1,642	1,392	395	0	1	79
30% Exceedance	0	35	342	918	1,493	1,455	1,190	814	217	0	0	24
40% Exceedance	0	0	250	438	1,200	1,077	927	599	1	0	0	0
50% Exceedance	0	0	168	118	622	766	622	382	0	0	0	0
60% Exceedance	0	0	84	27	227	436	332	49	0	0	0	0
70% Exceedance	0	0	9	0	105	195	221	0	0	0	0	0
80% Exceedance	0	0	0	0	0	28	10	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
Full Simulation Period Average ^a	60	184	490	705	1,052	1,042	1,028	932	597	119	37	100
Wet Water Years (22%)	204	440	752	1,768	2,553	2,486	2,758	2,939	2,449	526	157	355
Above Normal Water Years (12%)	28	163	874	1,371	1,613	1,526	1,249	1,036	243	21	11	0
Below Normal Water Years (15%)	68	279	635	807	1,406	1,138	970	660	142	1	6	39
Dry Water Years (17%)	8	118	412	93	258	438	453	266	30	0	0	6
Critical Water Years (34%)	1	11	139	42	124	197	144	51	8	1	2	44

Table F.2.2-17-10b. San Joaquin River Flow below Sack Dam, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	313	155	180	1,235	1,505	4,445	2,160	1,817	1,057	45	65
20% Exceedance	115	313	155	175	175	869	3,113	1,131	1,131	1,057	45	65
30% Exceedance	115	313	155	175	175	768	2,967	85	85	45	45	65
40% Exceedance	115	313	155	175	175	768	2,716	85	85	45	45	65
50% Exceedance	115	313	155	175	175	768	1,459	85	85	45	45	65
60% Exceedance	115	313	155	175	175	768	978	85	85	45	45	65
70% Exceedance	115	313	155	175	175	768	719	85	85	45	45	65
80% Exceedance	115	313	155	175	175	768	213	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	110	312	248	347	463	1,041	1,961	645	518	279	38	59
Wet Water Years (22%)	128	416	496	872	1,411	1,963	4,318	2,613	2,095	1,138	45	65
Above Normal Water Years (12%)	115	313	294	355	377	998	2,974	191	85	45	45	65
Below Normal Water Years (15%)	115	313	159	203	169	806	2,428	85	85	45	45	65
Dry Water Years (17%)	117	313	156	154	154	768	1,070	85	84	42	42	65
Critical Water Years (34%)	91	241	152	165	165	700	318	60	58	26	26	48

Table F.2.2-17-10c. San Joaquin River Flow below Sack Dam, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2	-118	-1,288	-1,742	-1,145	-581	2,014	-691	-215	824	-39	-161
20% Exceedance	71	208	-454	-1,193	-1,673	-851	1,472	-261	736	1,057	44	-14
30% Exceedance	115	278	-187	-743	-1,318	-687	1,777	-729	-132	45	45	41
40% Exceedance	115	313	-95	-263	-1,025	-309	1,788	-514	84	45	45	65
50% Exceedance	115	313	-13	57	-447	2	837	-297	85	45	45	65
60% Exceedance	115	313	71	148	-52	332	646	36	85	45	45	65
70% Exceedance	115	313	146	175	70	572	498	85	85	45	45	65
80% Exceedance	115	313	155	175	175	739	203	85	85	45	45	65
90% Exceedance	115	313	155	175	175	768	125	72	32	0	0	65
Full Simulation Period Average ^a	50	129	-242	-358	-589	-1	933	-287	-79	160	1	-41
Wet Water Years (22%)	-76	-24	-256	-896	-1,142	-523	1,560	-325	-354	612	-112	-290
Above Normal Water Years (12%)	87	151	-580	-1,016	-1,236	-528	1,726	-845	-158	24	34	65
Below Normal Water Years (15%)	47	34	-476	-605	-1,237	-332	1,458	-575	-57	44	39	26
Dry Water Years (17%)	109	195	-256	61	-104	329	617	-181	54	42	42	59
Critical Water Years (34%)	91	231	13	123	40	503	174	9	50	25	25	4

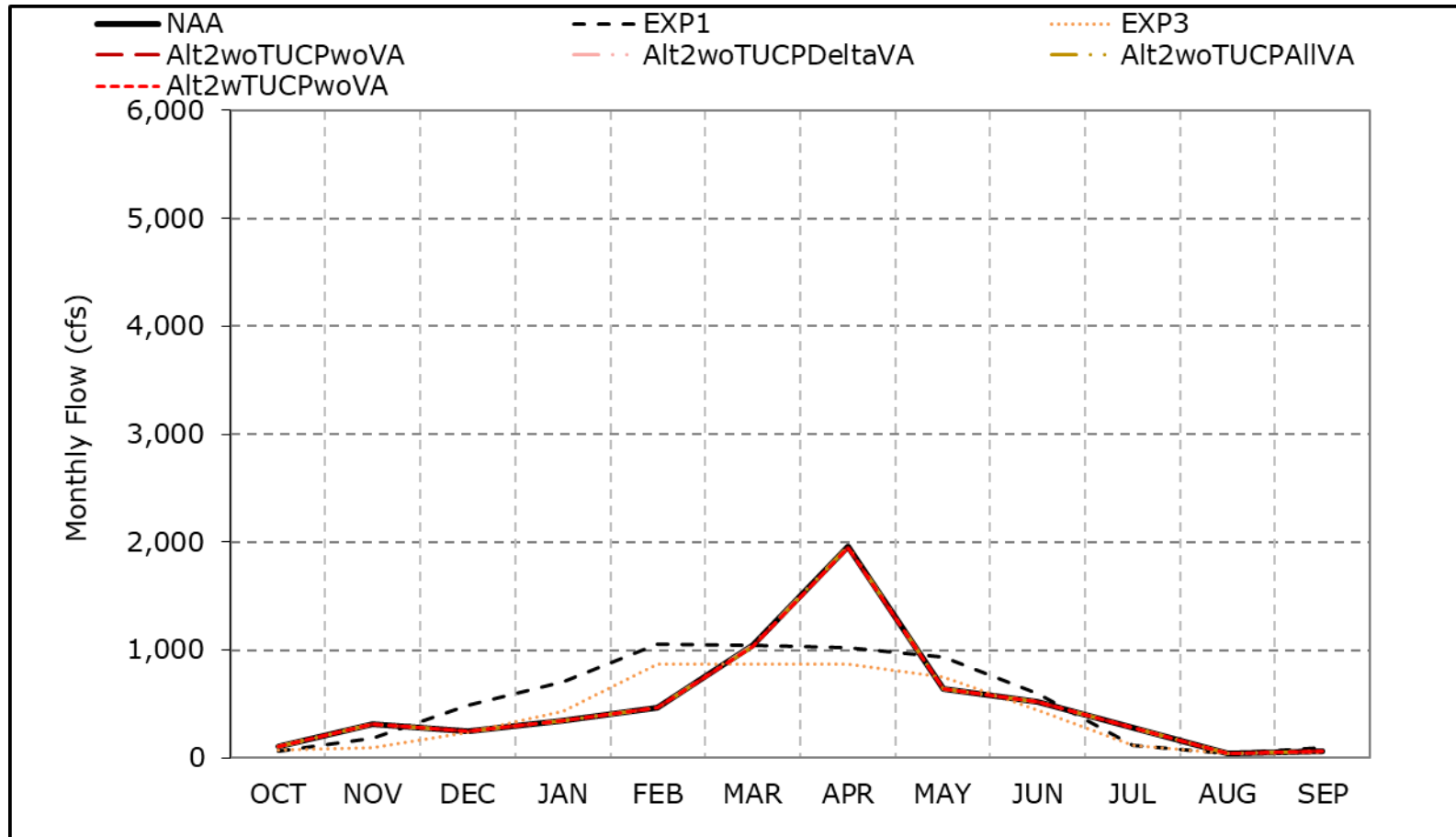
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-17-1. San Joaquin River Flow below Sack Dam, Long-Term Average Flow

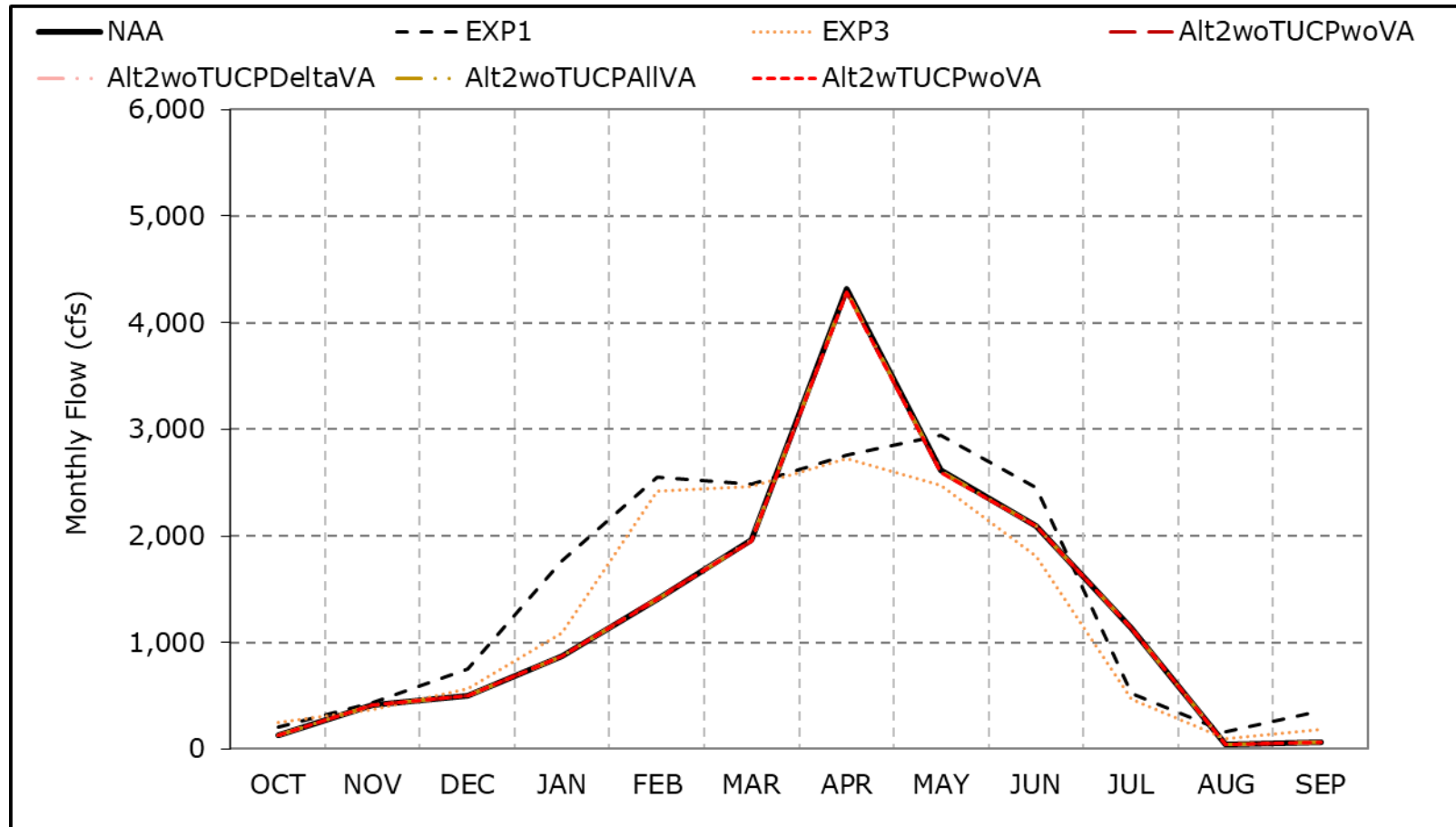


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-2. San Joaquin River Flow below Sack Dam, Wet Year Average Flow

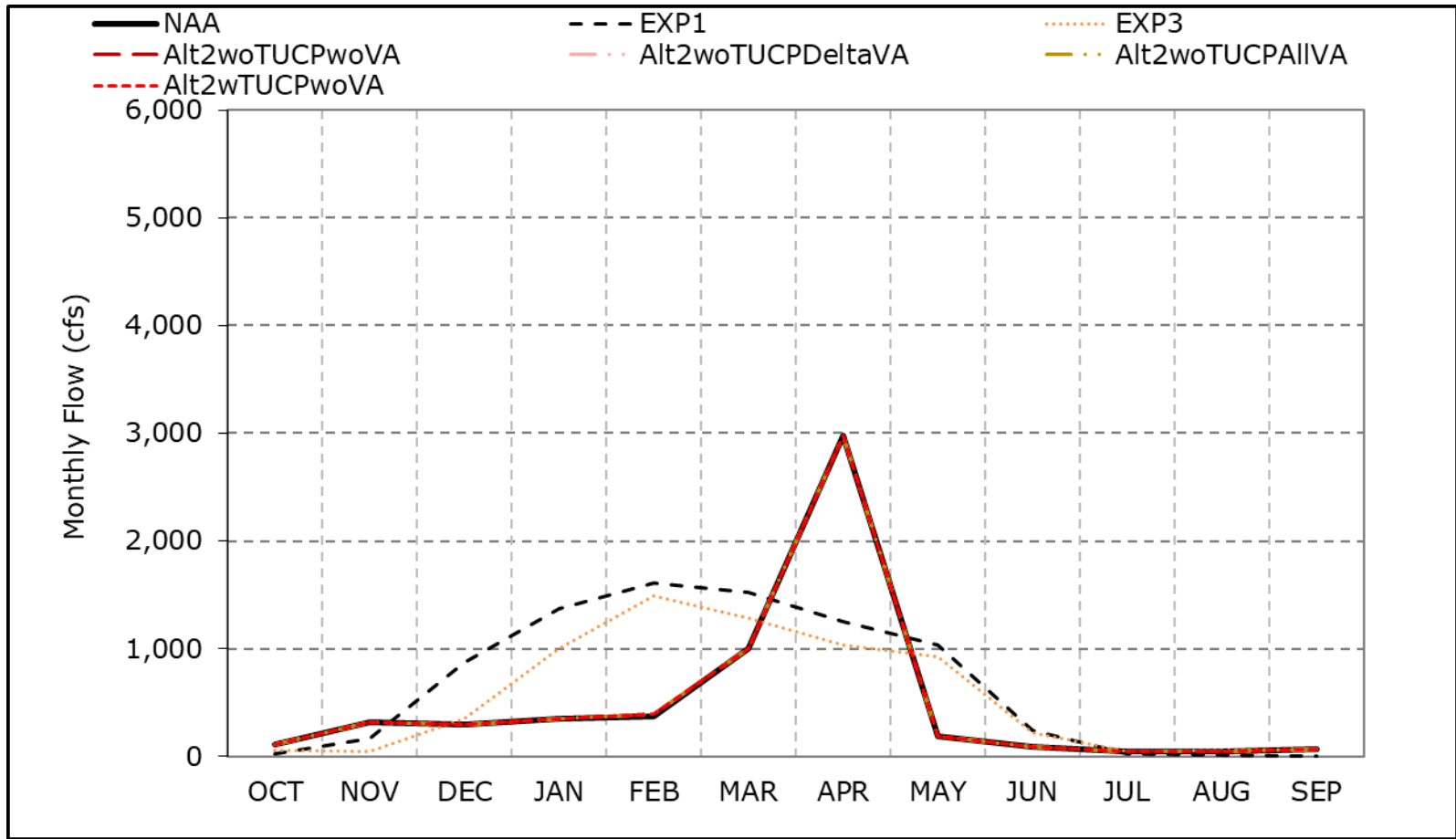


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-3. San Joaquin River Flow below Sack Dam, Above Normal Year Average Flow

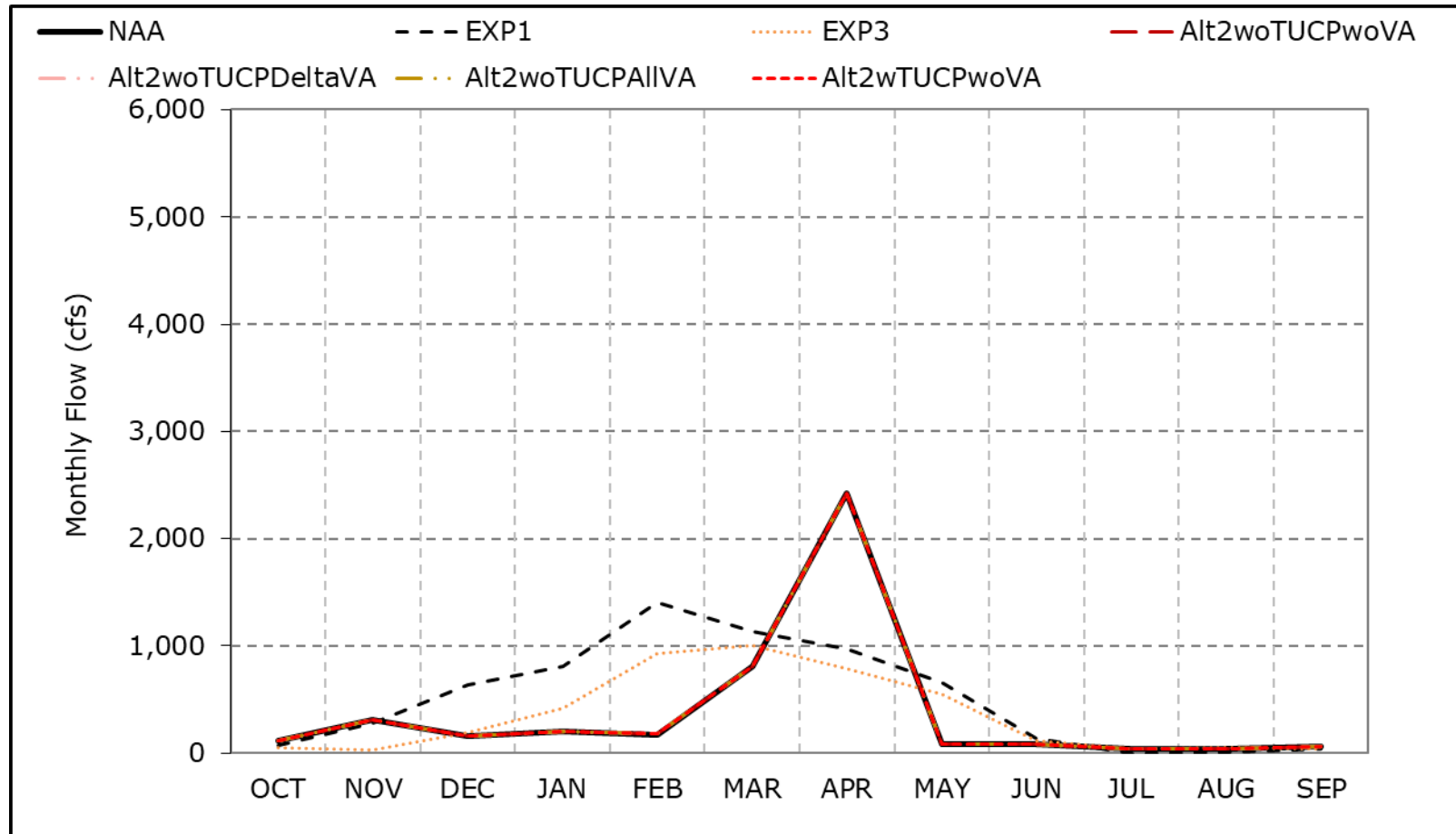


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-4. San Joaquin River Flow below Sack Dam, Below Normal Year Average Flow

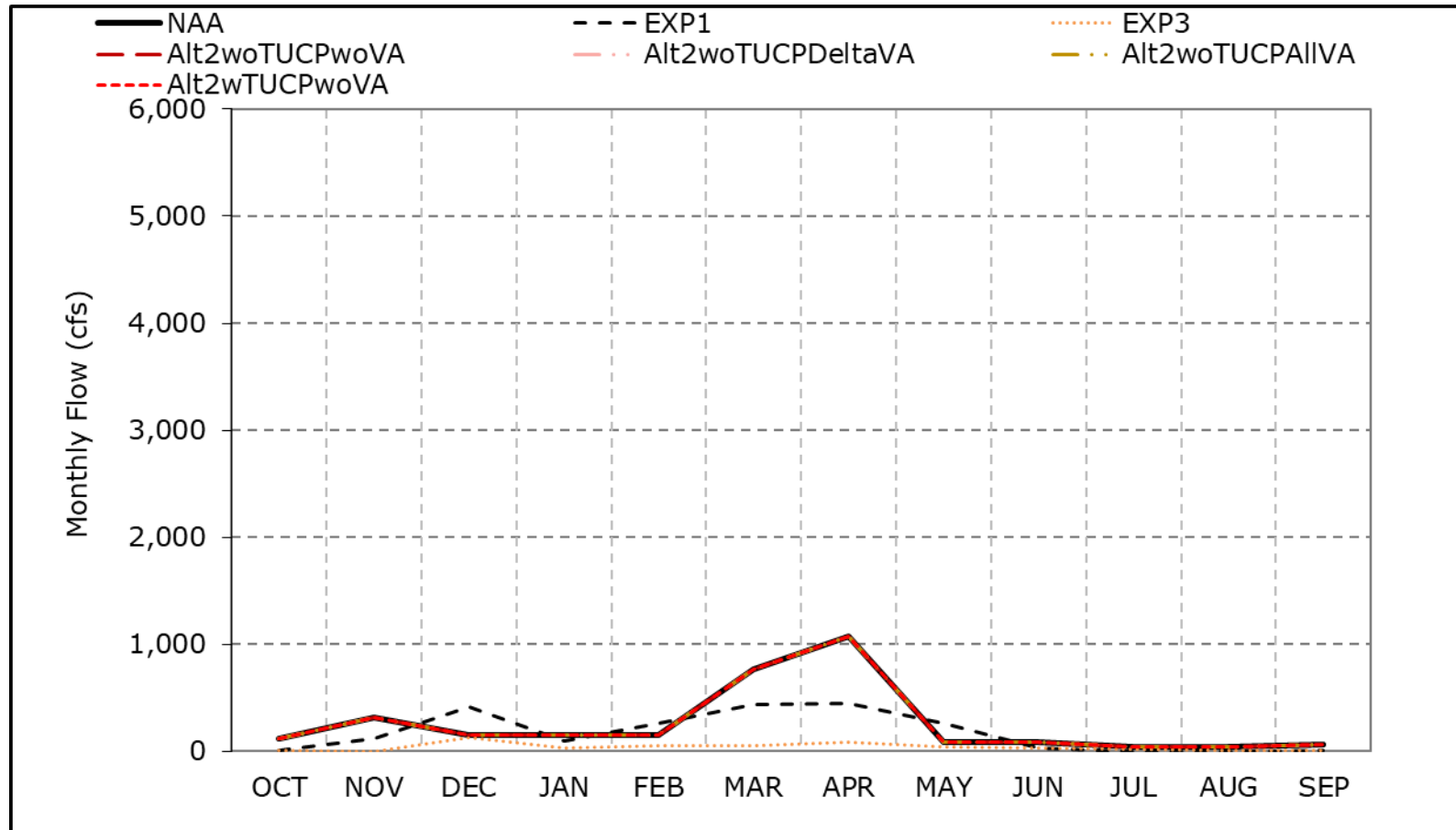


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-5. San Joaquin River Flow below Sack Dam, Dry Year Average Flow

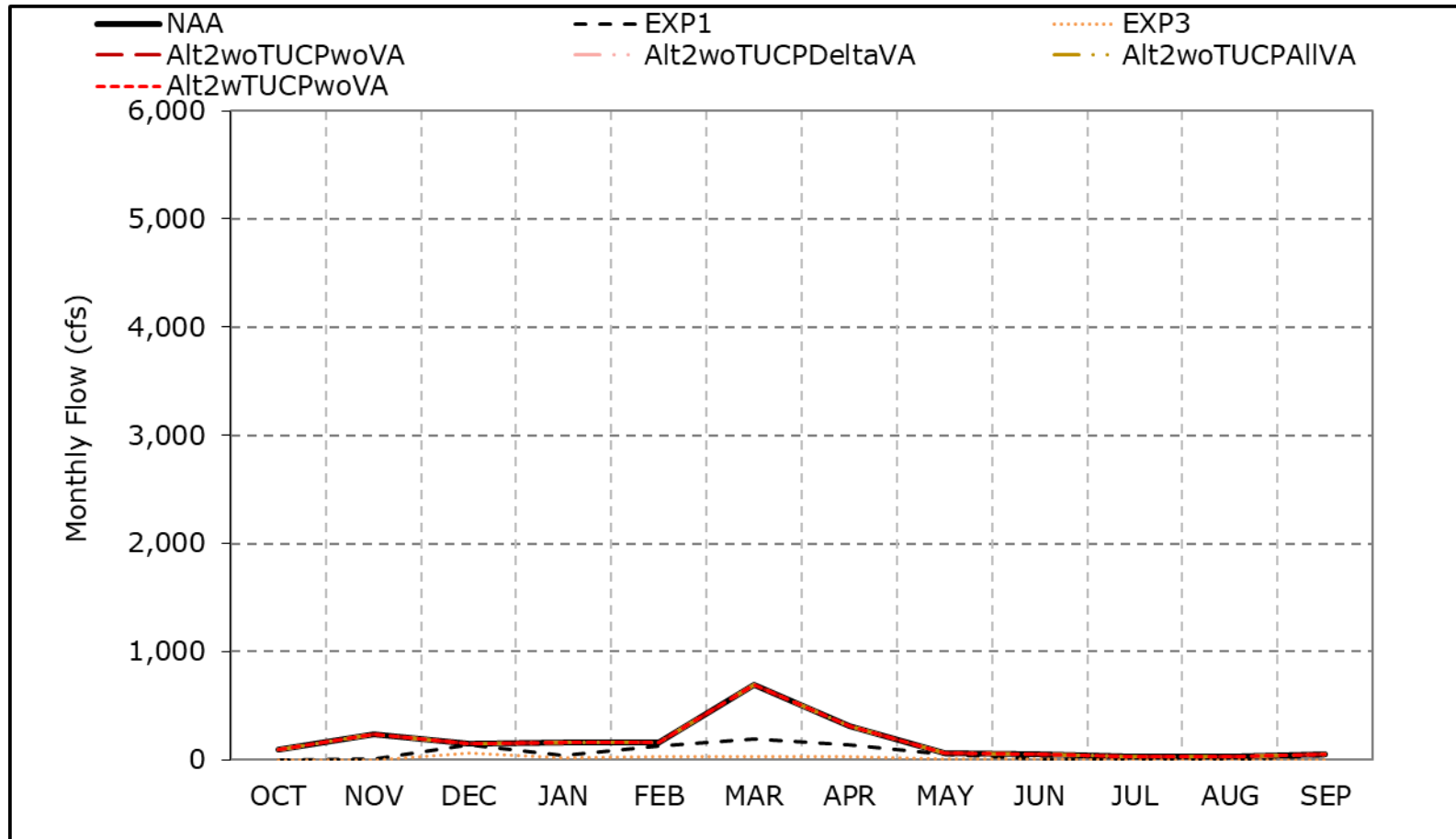


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-6. San Joaquin River Flow below Sack Dam, Critical Year Average Flow

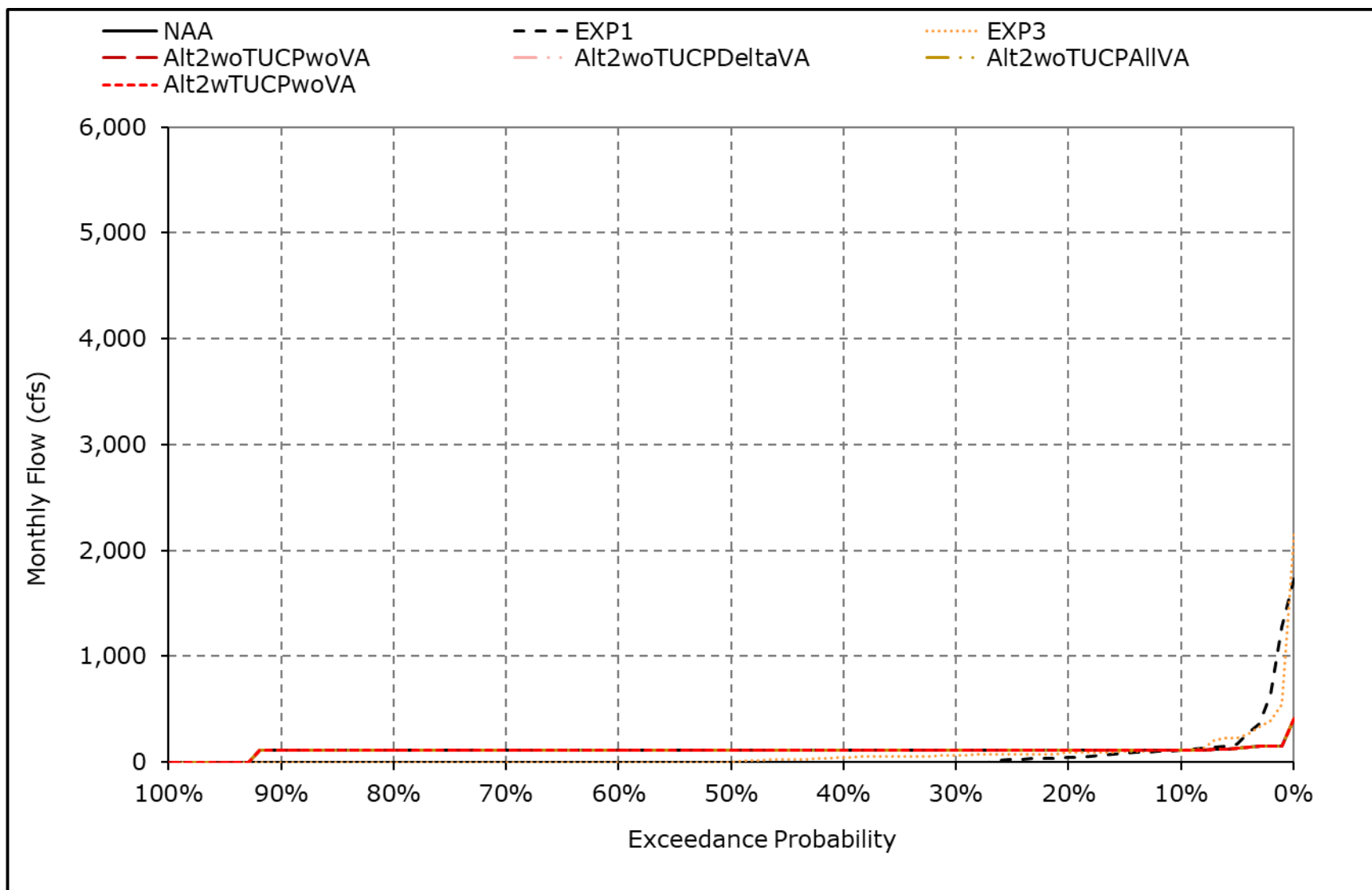


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

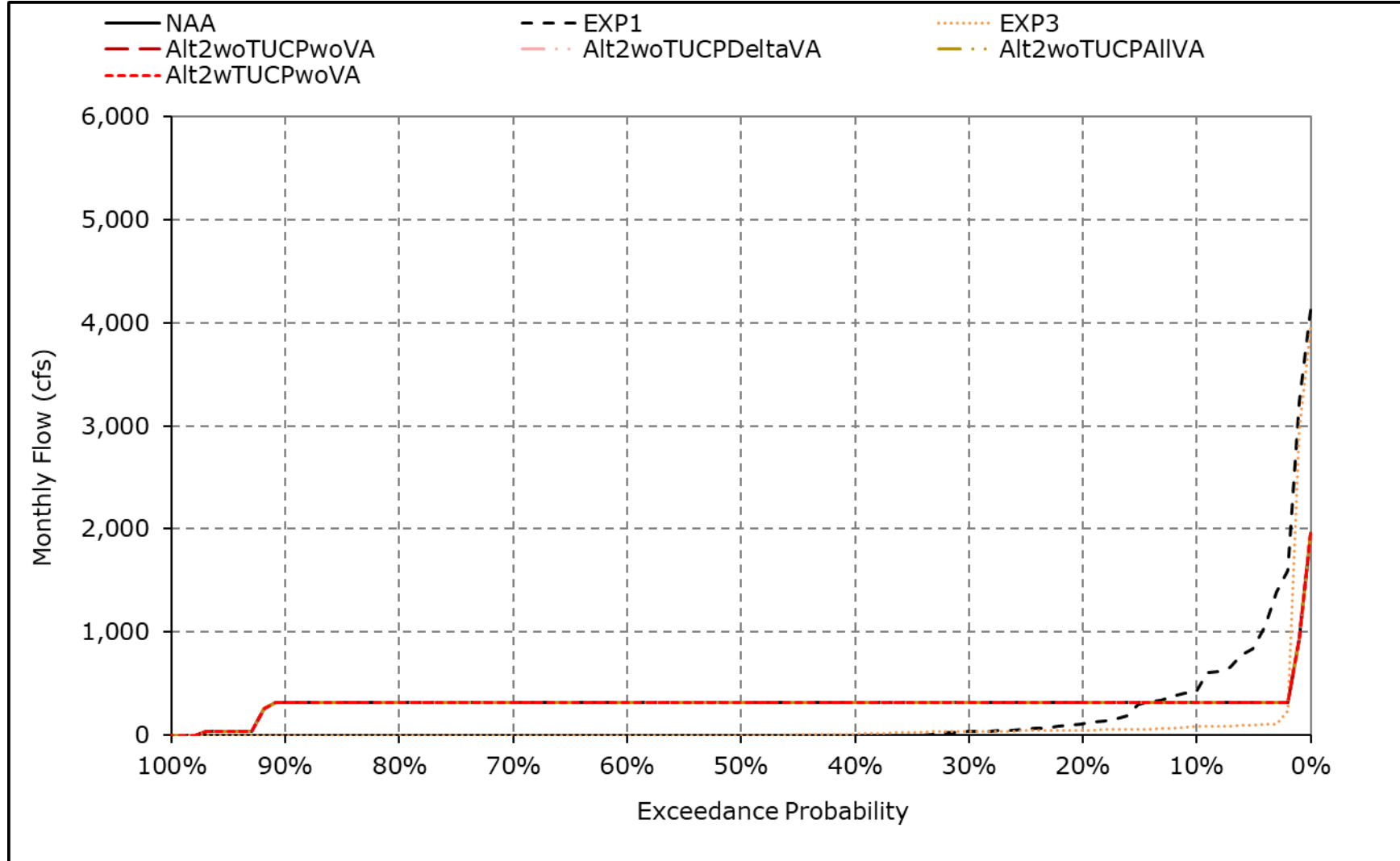
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-7. San Joaquin River Flow below Sack Dam, October



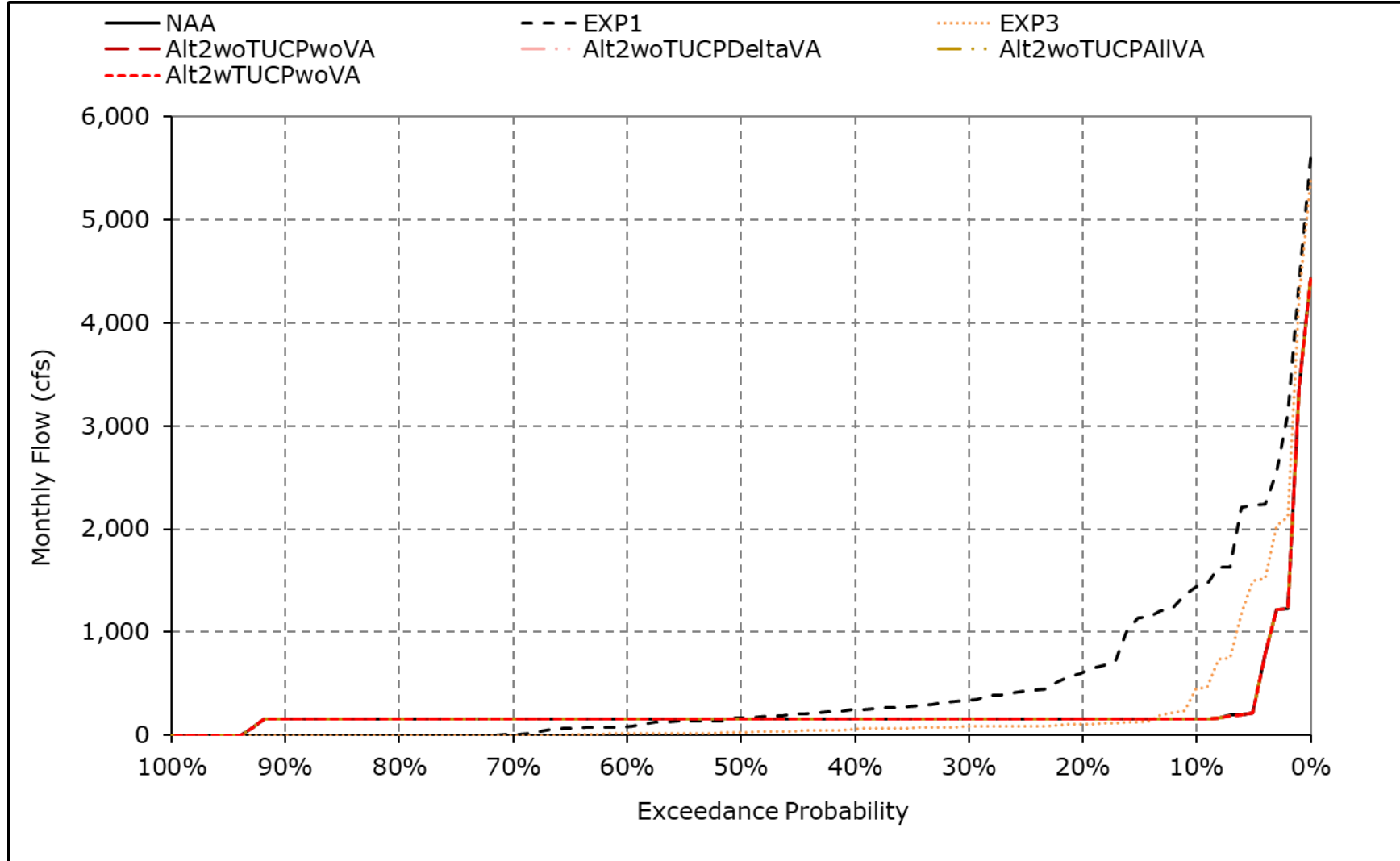
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-8. San Joaquin River Flow below Sack Dam, November



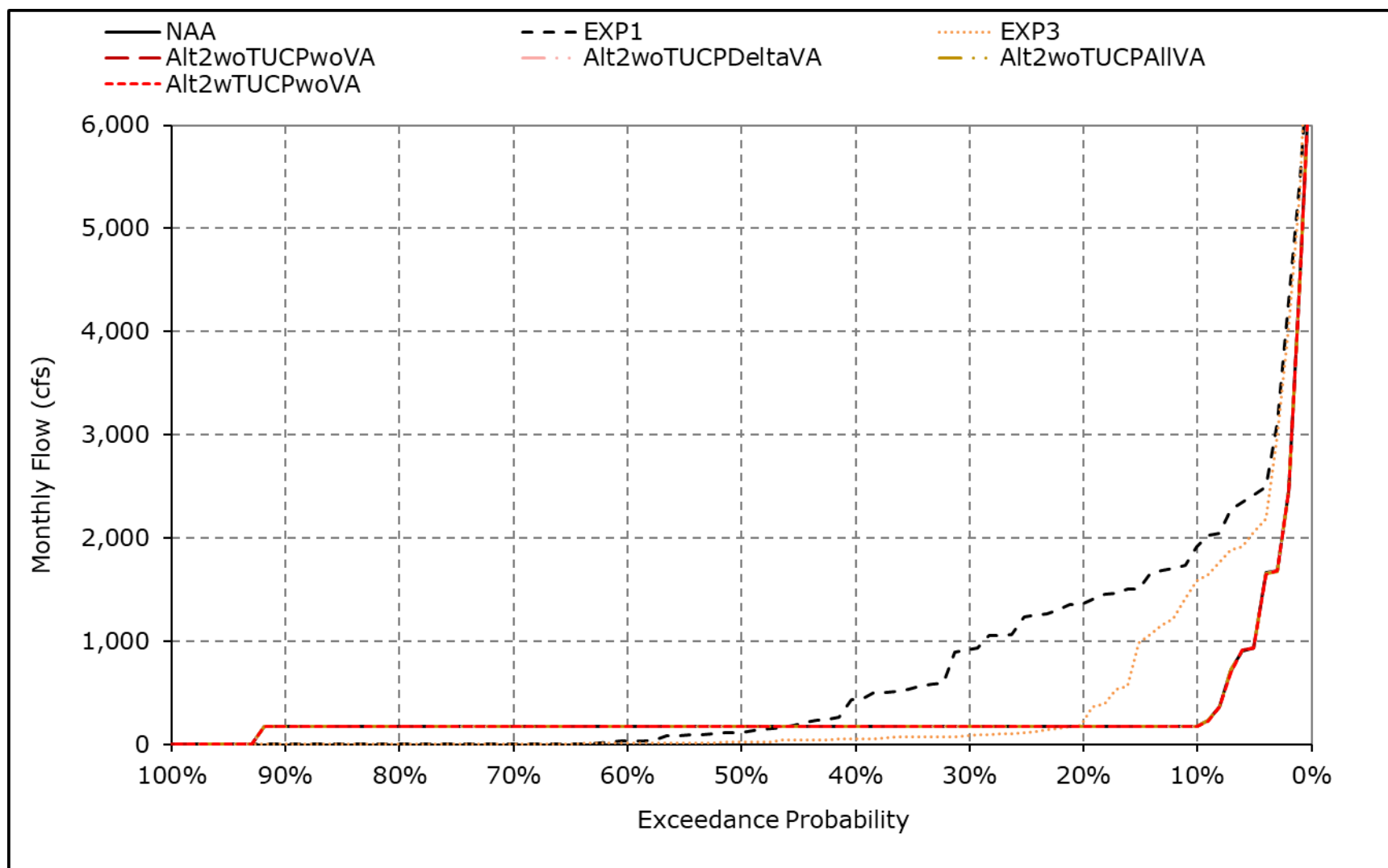
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-9. San Joaquin River Flow below Sack Dam, December



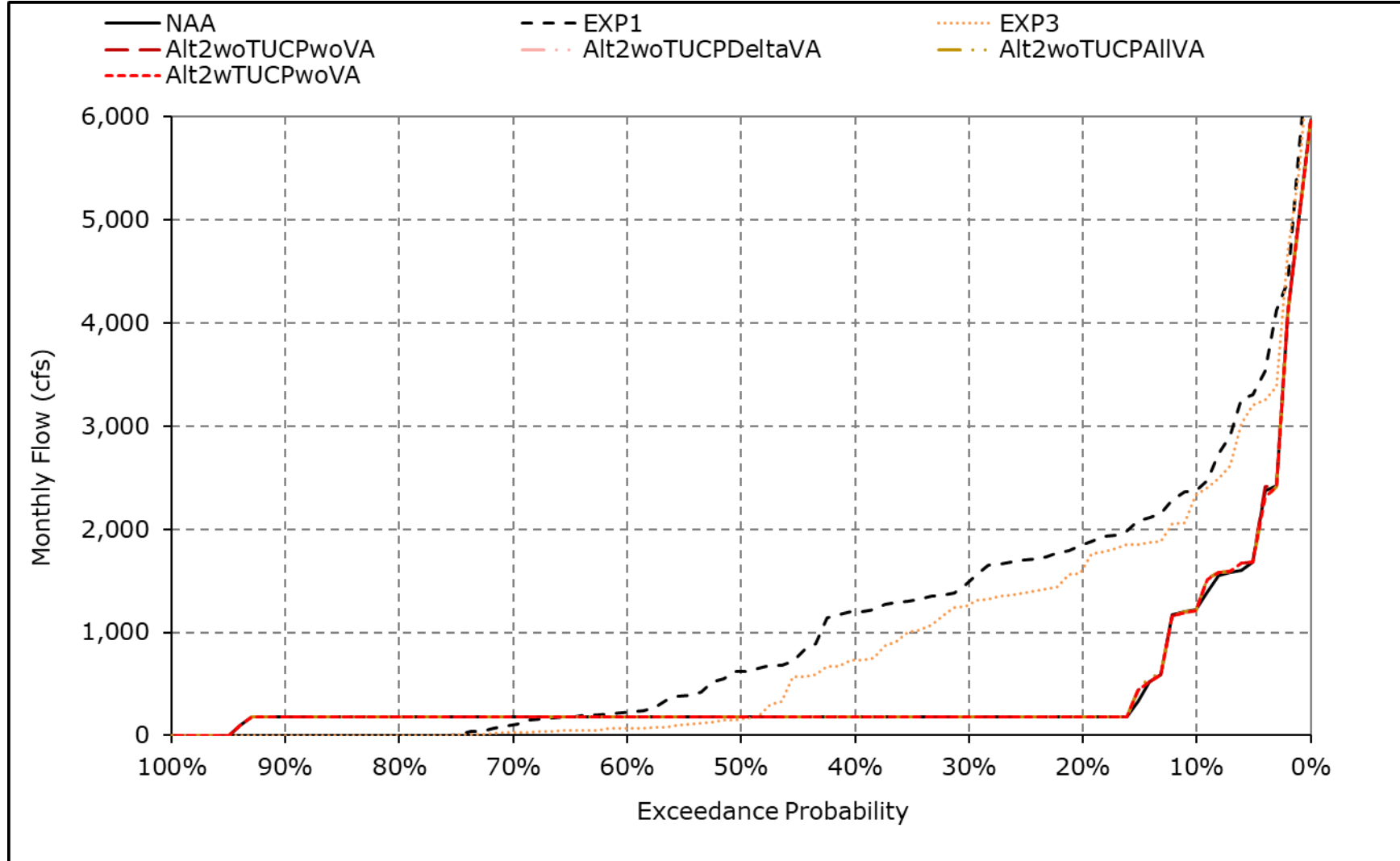
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-10. San Joaquin River Flow below Sack Dam, January



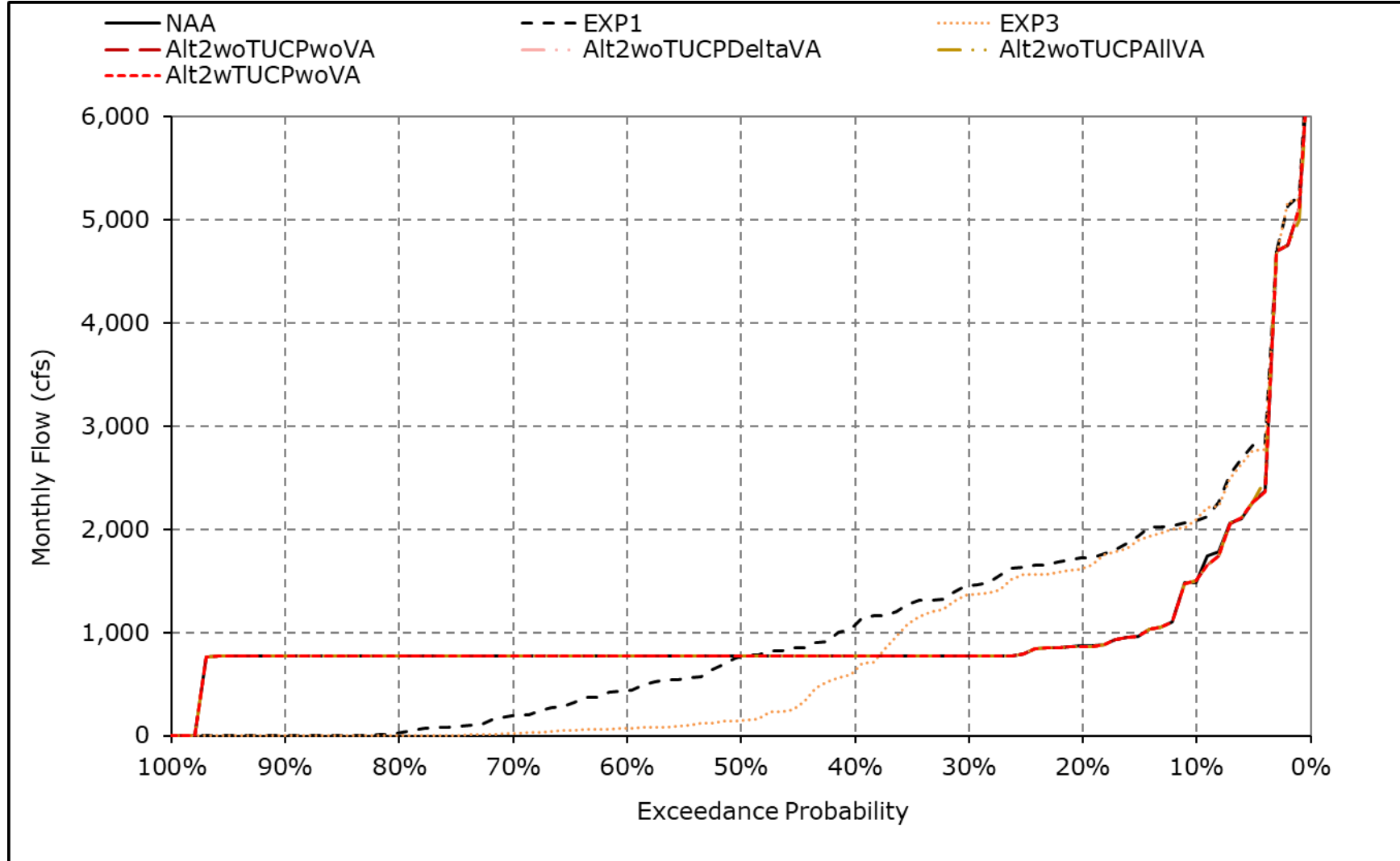
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-11. San Joaquin River Flow below Sack Dam, February



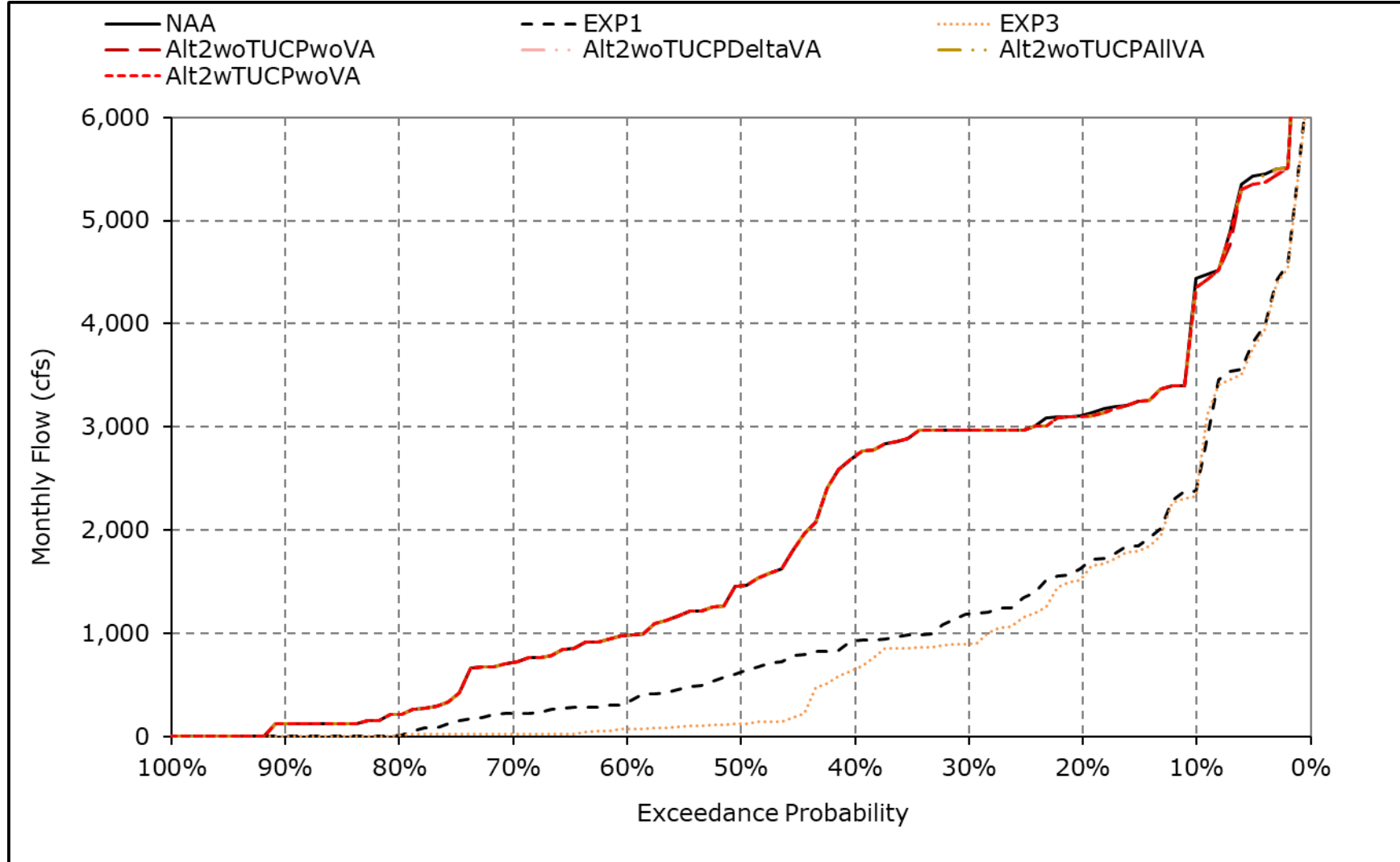
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-12. San Joaquin River Flow below Sack Dam, March



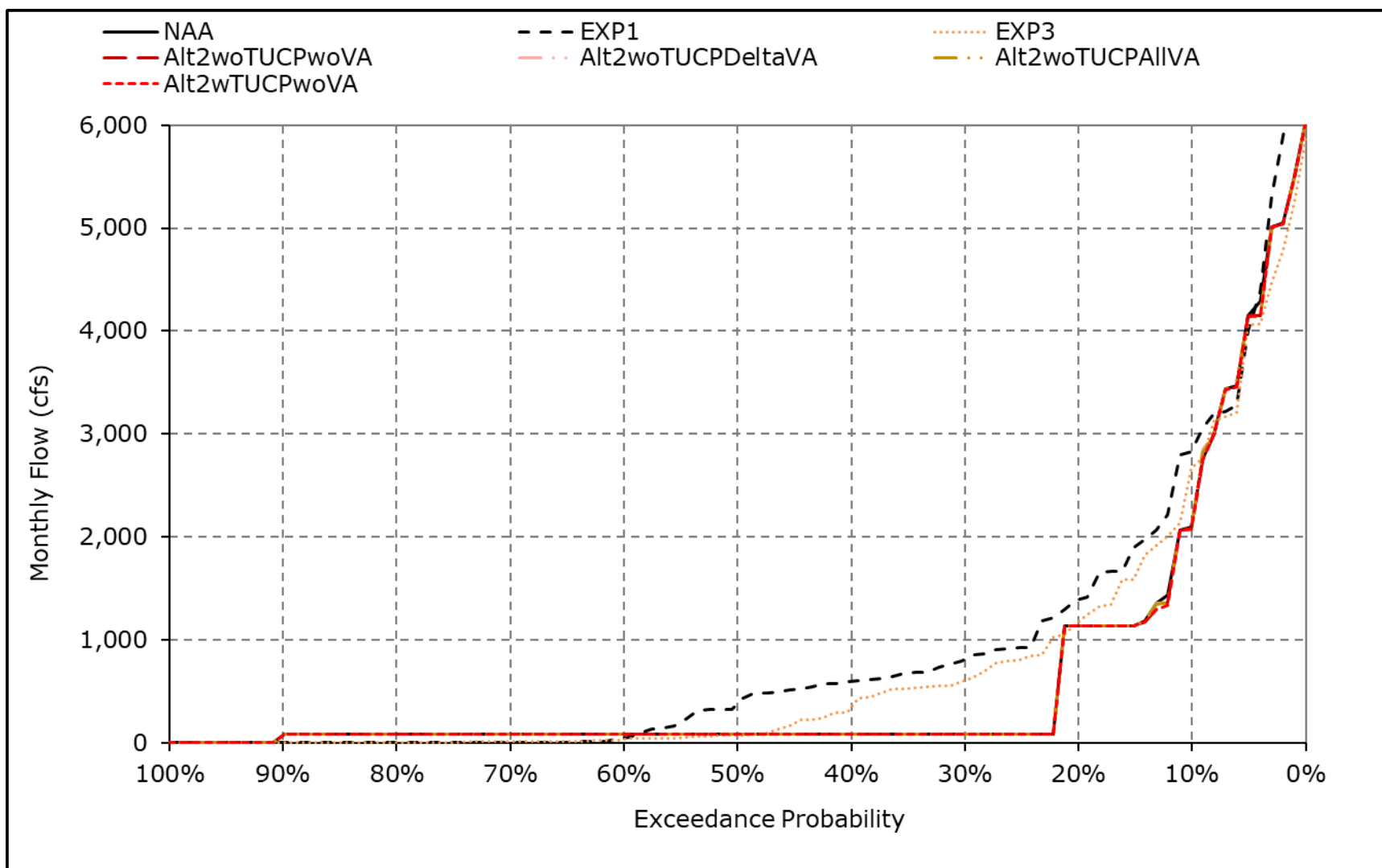
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-13. San Joaquin River Flow below Sack Dam, April



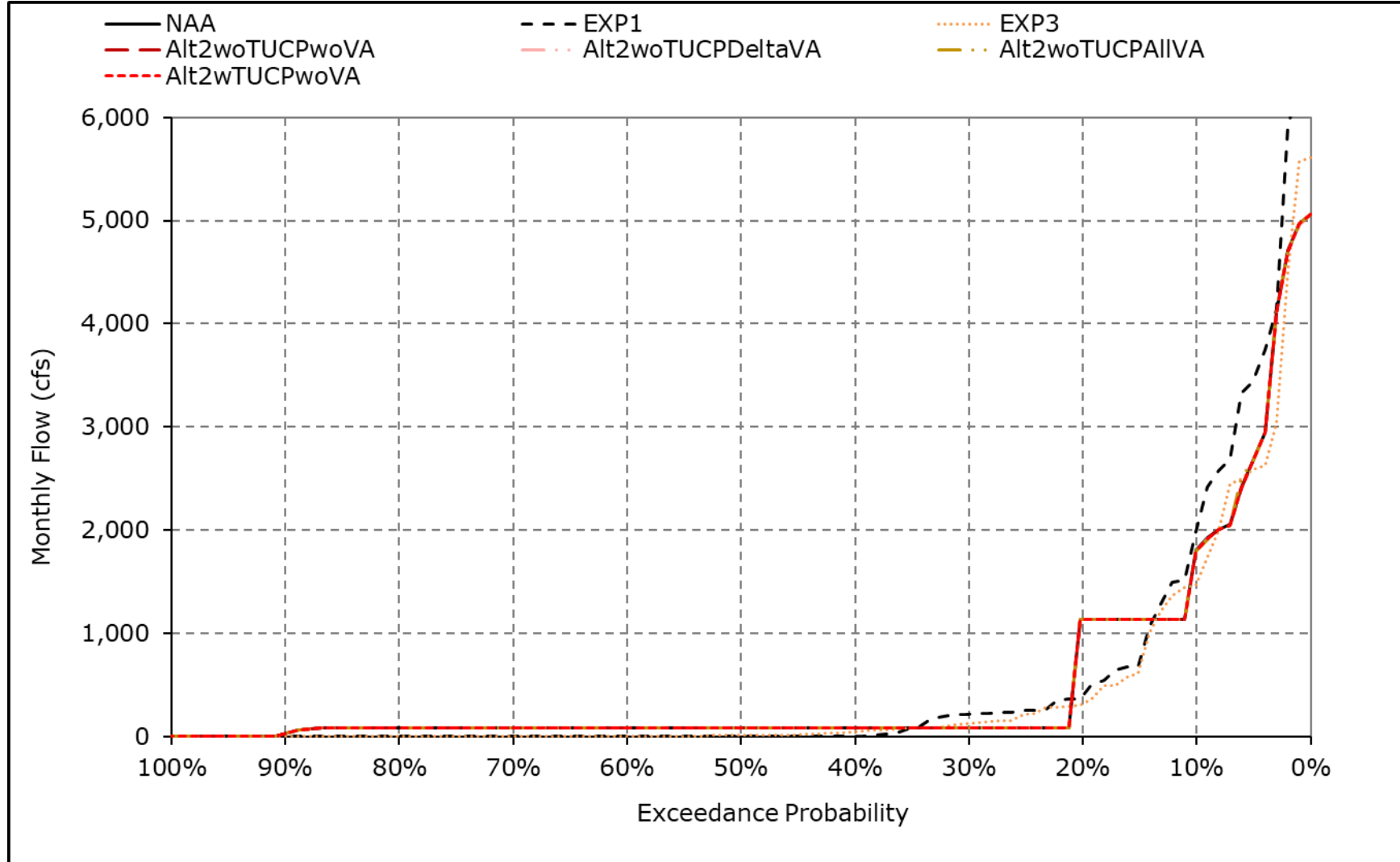
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-14. San Joaquin River Flow below Sack Dam, May



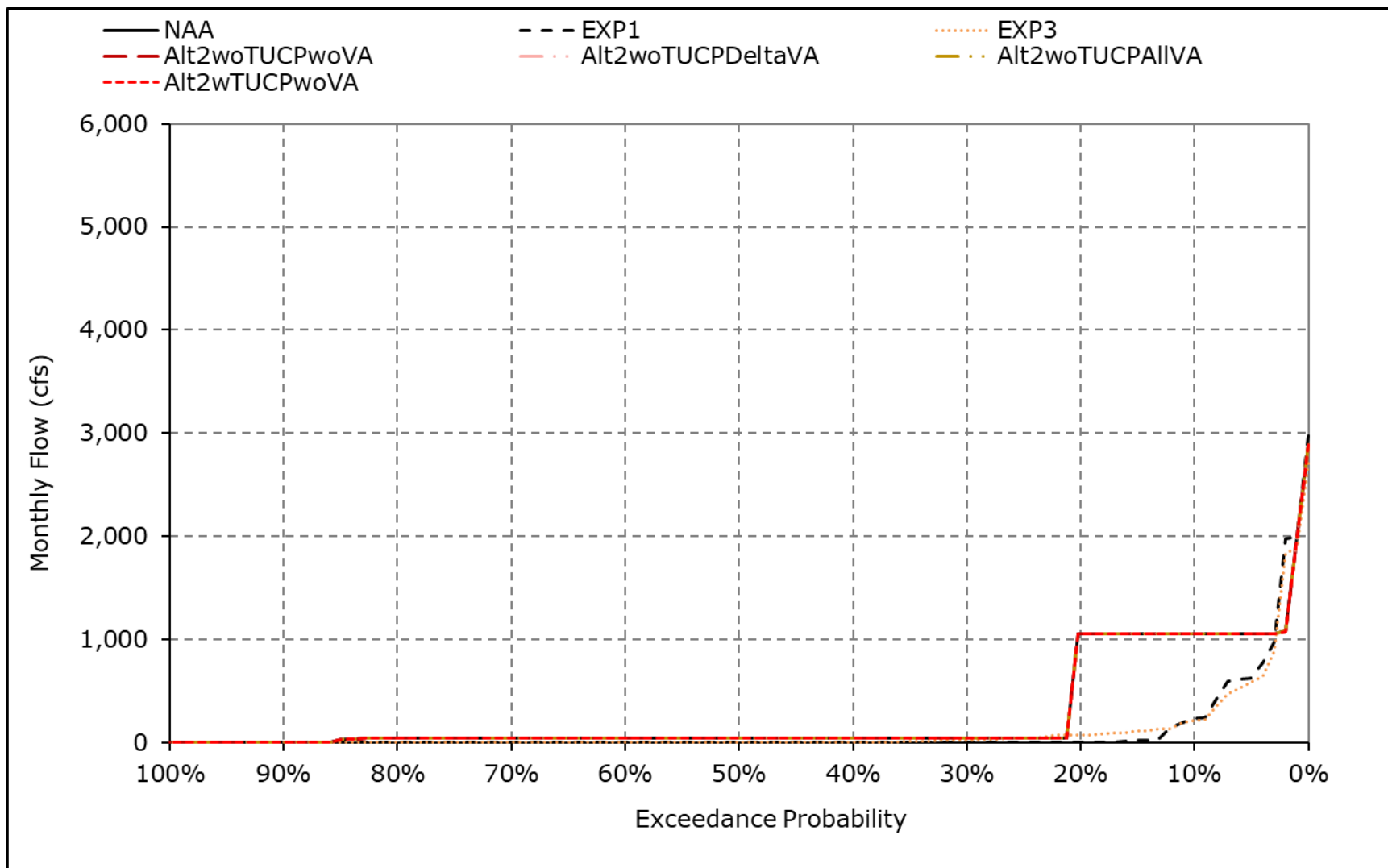
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-15. San Joaquin River Flow below Sack Dam, June



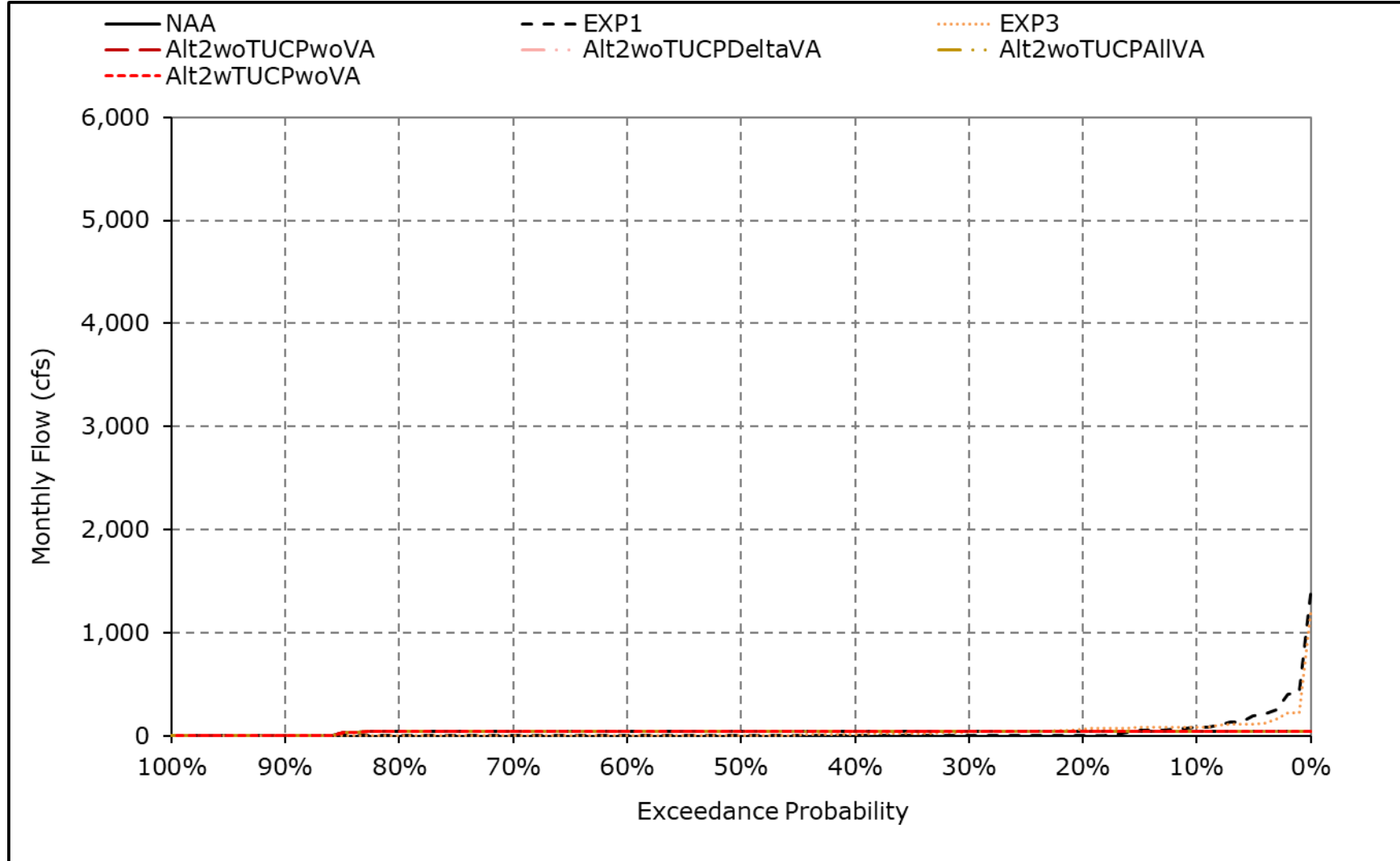
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-16. San Joaquin River Flow below Sack Dam, July



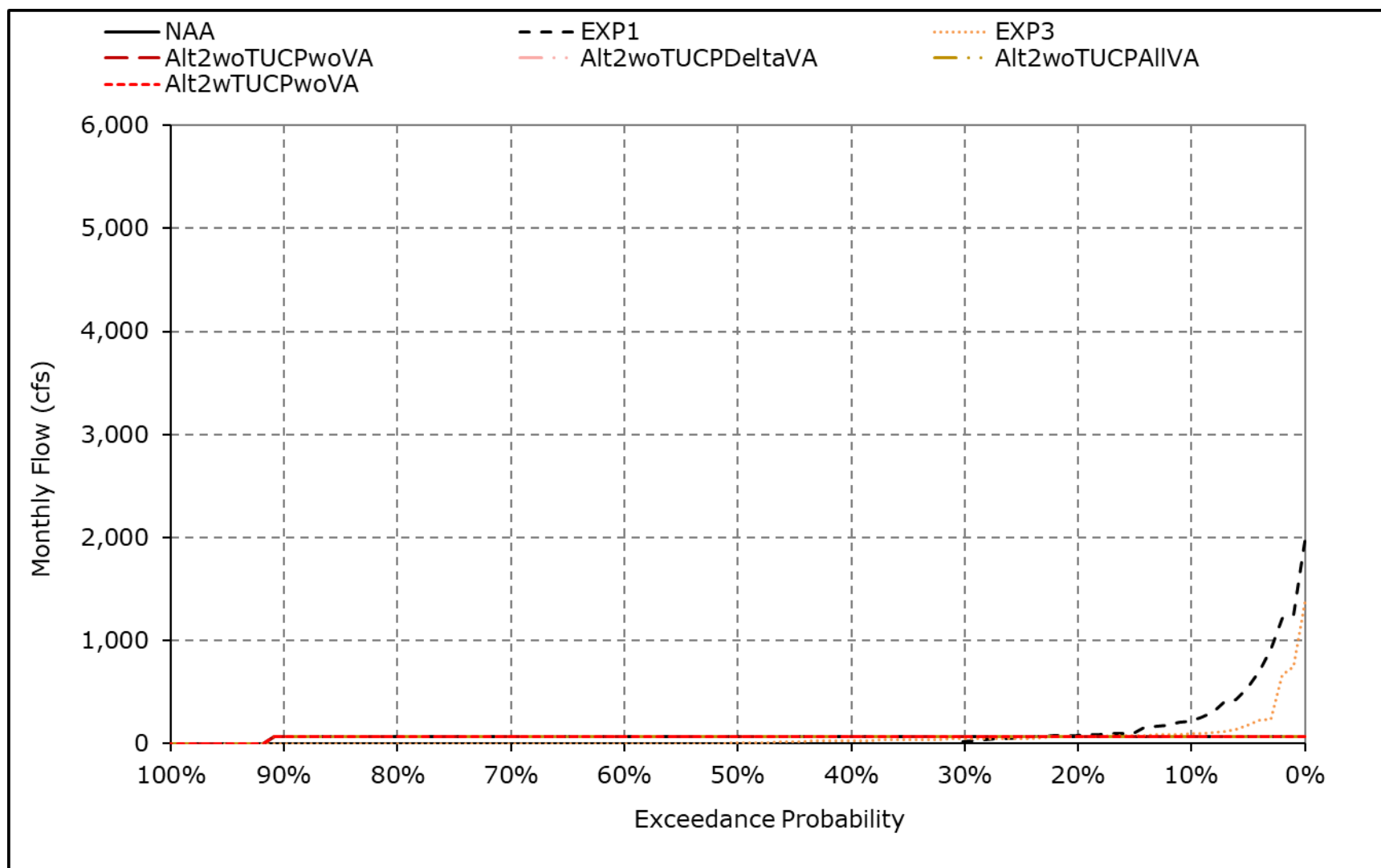
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-17. San Joaquin River Flow below Sack Dam, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-17-18. San Joaquin River Flow below Sack Dam, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-18-1a. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average ^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-1b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,980	1,589	2,516	3,967	9,126	7,129	7,703	4,567	3,773	2,014	1,140	982
20% Exceedance	1,487	1,342	1,438	2,809	3,937	3,976	5,003	2,775	2,031	1,549	936	896
30% Exceedance	1,046	1,270	1,215	2,000	2,906	3,067	4,203	1,394	1,053	761	717	761
40% Exceedance	930	1,173	985	1,551	2,068	2,292	3,788	1,033	904	680	677	742
50% Exceedance	894	1,098	883	1,240	1,446	2,170	2,376	851	823	628	644	725
60% Exceedance	871	1,033	849	1,092	1,331	2,063	1,920	776	790	576	630	710
70% Exceedance	845	969	810	1,027	1,151	1,948	1,673	719	746	550	616	695
80% Exceedance	824	947	752	955	1,060	1,910	1,444	651	704	521	596	674
90% Exceedance	773	882	713	905	1,025	1,854	1,406	601	624	449	539	612
Full Simulation Period Average ^a	1,135	1,240	1,534	2,525	3,413	3,497	3,612	2,083	1,697	942	749	774
Wet Water Years (22%)	1,866	1,675	2,075	6,130	8,108	7,601	7,722	6,038	4,743	2,143	1,170	1,023
Above Normal Water Years (12%)	1,169	1,263	2,519	2,700	4,192	3,434	4,335	1,825	1,160	789	717	750
Below Normal Water Years (15%)	999	1,224	1,358	2,017	3,303	2,695	3,639	1,243	989	703	686	733
Dry Water Years (17%)	907	1,124	1,178	1,141	1,252	2,090	2,001	790	791	597	632	707
Critical Water Years (34%)	813	1,009	1,048	1,048	1,230	1,921	1,493	632	679	497	574	671

Table F.2.2-18-1c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-1	-4	-1	8	-10	-40	-106	-6	-2	-1	-2
20% Exceedance	3	-1	-2	-2	-4	-2	-1	-2	-1	-1	-2	-8
30% Exceedance	-1	-1	-1	-2	-3	-2	-1	-1	-1	-2	4	-3
40% Exceedance	-1	-1	-7	-2	-2	-3	0	-2	-1	-1	-3	-1
50% Exceedance	-3	-2	-1	-2	-4	-2	-2	-3	-2	-2	-3	-4
60% Exceedance	-1	-1	-2	-2	-2	-3	-1	-1	2	-2	0	1
70% Exceedance	-2	-2	-1	0	-3	-1	-2	-2	-4	0	0	0
80% Exceedance	-2	-2	-1	-2	-2	-2	-3	-1	-1	-4	-2	-2
90% Exceedance	-2	-1	-5	-3	-2	0	-1	-1	-4	-2	-2	-2
Full Simulation Period Average ^a	-2	-2	-2	-2	0	-3	-7	-5	-3	-2	-1	-2
Wet Water Years (22%)	-2	-2	-2	-4	-3	-10	-28	-18	-7	-5	-2	-2
Above Normal Water Years (12%)	-1	-1	-3	-2	15	2	-1	-1	-2	-1	0	0
Below Normal Water Years (15%)	-1	-1	-1	-2	3	-1	-1	-1	-1	-2	-2	-3
Dry Water Years (17%)	-2	-2	-2	-2	-3	-2	-2	-2	-2	-1	-1	0
Critical Water Years (34%)	-2	-3	-3	-2	-3	-2	0	-2	-2	0	-1	-3

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-2a. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average ^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-2b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,977	1,590	2,515	3,967	9,127	7,125	7,699	4,742	3,772	2,014	1,139	982
20% Exceedance	1,487	1,342	1,437	2,809	3,937	3,976	5,035	2,775	2,030	1,548	936	895
30% Exceedance	1,045	1,270	1,214	2,000	2,908	3,067	4,209	1,394	1,053	761	713	761
40% Exceedance	930	1,172	985	1,550	2,067	2,292	3,802	1,033	904	680	675	742
50% Exceedance	893	1,095	883	1,239	1,447	2,170	2,375	854	823	628	643	727
60% Exceedance	871	1,033	849	1,092	1,330	2,064	1,984	776	790	576	629	712
70% Exceedance	846	968	808	1,026	1,150	1,947	1,679	719	746	545	615	695
80% Exceedance	824	947	752	955	1,060	1,910	1,462	650	703	517	596	674
90% Exceedance	773	882	713	905	1,025	1,854	1,406	600	624	449	539	612
Full Simulation Period Average ^a	1,135	1,240	1,533	2,526	3,412	3,496	3,631	2,090	1,697	942	748	774
Wet Water Years (22%)	1,865	1,674	2,074	6,130	8,103	7,599	7,730	6,044	4,747	2,143	1,169	1,023
Above Normal Water Years (12%)	1,169	1,263	2,519	2,701	4,193	3,434	4,367	1,866	1,159	789	716	750
Below Normal Water Years (15%)	998	1,224	1,358	2,019	3,303	2,695	3,667	1,250	989	702	686	733
Dry Water Years (17%)	907	1,124	1,178	1,140	1,252	2,090	2,030	790	791	596	631	710
Critical Water Years (34%)	813	1,009	1,047	1,047	1,230	1,920	1,505	632	679	496	574	671

Table F.2.2-18-2c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-9	-1	-5	-2	9	-13	-44	69	-7	-3	-2	-2
20% Exceedance	3	-2	-3	-3	-4	-2	30	-2	-1	-2	-2	-8
30% Exceedance	-1	-1	-2	-2	-2	-2	5	-1	-2	-2	0	-3
40% Exceedance	-1	-1	-7	-2	-2	-3	13	-2	-1	-2	-5	-1
50% Exceedance	-4	-5	-1	-2	-4	-2	-2	0	-1	-2	-4	-1
60% Exceedance	-1	-1	-2	-2	-2	-3	63	-1	2	-2	-1	3
70% Exceedance	-1	-3	-3	0	-3	-2	4	-2	-4	-5	-1	0
80% Exceedance	-2	-2	-1	-3	-2	-2	15	-2	-2	-8	-2	-2
90% Exceedance	-2	-1	-4	-3	-3	1	-2	-2	-4	-3	-2	-2
Full Simulation Period Average ^a	-2	-2	-3	-2	-1	-4	12	2	-2	-2	-2	-2
Wet Water Years (22%)	-2	-3	-2	-4	-8	-12	-20	-11	-4	-5	-3	-2
Above Normal Water Years (12%)	-1	-1	-3	-1	15	2	31	40	-3	-1	-1	-1
Below Normal Water Years (15%)	-1	-1	-2	0	3	-1	28	6	-1	-2	-2	-3
Dry Water Years (17%)	-2	-3	-2	-3	-3	-2	27	-1	-2	-2	-2	2
Critical Water Years (34%)	-2	-3	-3	-2	-3	-2	12	-2	-2	-1	-1	-3

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-3a. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-3b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,980	1,589	2,517	3,967	9,141	7,127	7,706	4,654	3,773	2,014	1,140	982
20% Exceedance	1,487	1,342	1,438	2,809	3,938	3,976	5,073	2,776	2,031	1,665	949	896
30% Exceedance	1,046	1,270	1,215	2,000	2,908	3,067	4,209	1,394	1,054	955	724	766
40% Exceedance	936	1,173	985	1,600	2,068	2,292	3,802	1,033	904	777	689	748
50% Exceedance	895	1,096	885	1,243	1,447	2,170	2,376	854	823	690	656	730
60% Exceedance	872	1,033	849	1,092	1,331	2,071	1,990	781	790	637	633	718
70% Exceedance	846	969	809	1,027	1,151	1,955	1,673	719	748	598	621	700
80% Exceedance	824	950	753	955	1,063	1,911	1,462	651	704	522	597	676
90% Exceedance	772	882	713	906	1,026	1,855	1,407	600	623	450	543	614
Full Simulation Period Average^a	1,135	1,241	1,535	2,535	3,417	3,499	3,633	2,089	1,698	997	754	777
Wet Water Years (22%)	1,866	1,675	2,075	6,165	8,100	7,598	7,734	6,050	4,748	2,179	1,173	1,025
Above Normal Water Years (12%)	1,169	1,263	2,520	2,701	4,228	3,436	4,371	1,840	1,161	885	720	750
Below Normal Water Years (15%)	999	1,224	1,358	2,019	3,303	2,698	3,669	1,251	989	831	700	739
Dry Water Years (17%)	908	1,124	1,183	1,149	1,257	2,098	2,031	792	791	665	639	715
Critical Water Years (34%)	814	1,010	1,048	1,048	1,230	1,923	1,505	632	680	510	576	674

Table F.2.2-18-3c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPAILVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-7	-1	-4	-1	23	-12	-38	-19	-6	-2	-1	-2
20% Exceedance	3	-1	-2	-2	-3	-2	68	-1	-1	115	11	-8
30% Exceedance	-1	-1	-1	-2	-1	-2	5	-1	-1	192	11	1
40% Exceedance	5	-1	-7	47	-1	-3	13	-1	-1	95	10	5
50% Exceedance	-2	-5	1	1	-3	-2	-2	0	-1	60	8	1
60% Exceedance	-1	-1	-2	-2	-2	4	69	3	2	59	2	9
70% Exceedance	-1	-2	-2	1	-3	6	-2	-2	-2	48	4	5
80% Exceedance	-1	0	-1	-2	0	-1	15	-2	-1	-3	-1	0
90% Exceedance	-2	-1	-4	-2	-1	1	-1	-2	-5	-2	1	0
Full Simulation Period Average^a	-1	-2	-1	7	4	-1	14	1	-2	53	4	2
Wet Water Years (22%)	-2	-2	-2	31	-12	-13	-16	-5	-3	31	1	-1
Above Normal Water Years (12%)	-1	-1	-2	-1	51	3	35	14	-1	95	3	-1
Below Normal Water Years (15%)	-1	-1	-1	0	3	3	29	7	0	126	11	3
Dry Water Years (17%)	-1	-2	3	7	1	6	28	0	-2	67	6	8
Critical Water Years (34%)	-1	-2	-2	-2	-2	0	12	-2	-2	13	1	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-4a. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average ^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-4b. San Joaquin River Flow below confluence with Merced , Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,979	1,590	2,518	3,968	9,129	7,129	7,704	4,567	3,775	2,014	1,140	982
20% Exceedance	1,487	1,343	1,438	2,809	3,936	3,977	5,005	2,776	2,031	1,548	936	896
30% Exceedance	1,046	1,271	1,215	2,001	2,909	3,067	4,204	1,395	1,054	762	717	763
40% Exceedance	930	1,173	986	1,551	2,068	2,292	3,788	1,033	904	681	677	743
50% Exceedance	894	1,098	883	1,240	1,447	2,170	2,376	851	823	629	644	725
60% Exceedance	872	1,033	849	1,092	1,331	2,065	1,920	777	789	577	631	710
70% Exceedance	846	969	811	1,026	1,151	1,948	1,674	719	747	551	617	695
80% Exceedance	824	948	752	956	1,061	1,910	1,445	651	704	515	597	675
90% Exceedance	773	882	713	906	1,025	1,853	1,407	601	625	450	540	613
Full Simulation Period Average ^a	1,135	1,241	1,534	2,526	3,413	3,497	3,614	2,083	1,697	941	749	774
Wet Water Years (22%)	1,866	1,675	2,075	6,130	8,103	7,601	7,727	6,039	4,744	2,144	1,170	1,024
Above Normal Water Years (12%)	1,169	1,263	2,520	2,701	4,193	3,435	4,336	1,824	1,161	789	718	749
Below Normal Water Years (15%)	999	1,224	1,358	2,018	3,304	2,695	3,639	1,244	989	703	687	735
Dry Water Years (17%)	907	1,125	1,178	1,141	1,253	2,091	2,001	790	791	598	632	708
Critical Water Years (34%)	814	1,010	1,048	1,048	1,230	1,921	1,493	632	680	494	573	672

Table F.2.2-18-4c. San Joaquin River Flow below confluence with Merced , Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-7	0	-2	-1	12	-10	-39	-106	-4	-2	-1	-2
20% Exceedance	3	0	-1	-2	-5	-1	0	-1	0	-2	-2	-8
30% Exceedance	-1	0	-1	-1	-1	-2	0	0	-1	-1	4	-2
40% Exceedance	-1	-1	-6	-2	-1	-3	-1	-1	0	-1	-3	0
50% Exceedance	-3	-2	-1	-2	-4	-2	-2	-3	-2	-1	-4	-3
60% Exceedance	0	-1	-2	-2	-1	-2	-1	-1	1	-1	0	0
70% Exceedance	-1	-2	0	0	-2	-1	-1	-2	-3	1	0	0
80% Exceedance	-1	-2	-1	-2	-1	-2	-2	-1	-1	-10	-1	-2
90% Exceedance	-2	-1	-4	-3	-2	-1	-1	-1	-3	-2	-2	-1
Full Simulation Period Average ^a	-1	-2	-2	-2	-1	-3	-6	-5	-2	-3	-1	-1
Wet Water Years (22%)	-2	-1	-1	-4	-8	-10	-23	-17	-7	-4	-2	-2
Above Normal Water Years (12%)	0	-1	-2	-1	16	2	0	-2	-1	0	1	-1
Below Normal Water Years (15%)	0	-1	-1	-2	3	0	-1	-1	0	-2	-1	-1
Dry Water Years (17%)	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	0
Critical Water Years (34%)	-2	-2	-3	-2	-2	-2	0	-1	-2	-3	-2	-2

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-5a. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-5b. San Joaquin River Flow below confluence with Merced , EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,788	1,288	2,698	4,831	10,141	7,977	8,666	7,075	5,627	1,550	860	788
20% Exceedance	1,373	1,035	1,239	3,020	5,206	5,437	4,399	4,641	2,256	938	688	690
30% Exceedance	924	961	976	1,823	3,864	3,552	2,467	1,549	1,045	617	540	603
40% Exceedance	780	855	796	1,337	2,684	2,282	1,906	1,086	796	489	493	568
50% Exceedance	738	825	680	1,010	1,297	1,664	1,389	558	579	382	453	550
60% Exceedance	709	761	638	864	1,103	1,440	1,198	514	492	301	400	531
70% Exceedance	676	724	609	796	922	1,355	1,139	484	465	274	383	512
80% Exceedance	656	681	548	725	841	1,270	1,103	439	440	237	367	486
90% Exceedance	644	659	498	658	795	1,220	1,068	411	401	222	345	461
Full Simulation Period Average^a	1,028	1,024	1,367	2,418	3,825	3,580	3,133	2,388	1,947	785	552	649
Wet Water Years (22%)	1,904	1,652	1,964	5,915	9,853	9,011	8,410	7,426	6,411	2,218	964	1,041
Above Normal Water Years (12%)	1,047	968	2,368	3,072	5,015	3,966	2,912	2,641	1,322	634	558	602
Below Normal Water Years (15%)	865	940	1,241	2,104	3,578	2,778	2,306	1,332	942	522	521	592
Dry Water Years (17%)	721	815	1,015	916	1,051	1,499	1,223	507	491	315	405	509
Critical Water Years (34%)	668	775	814	815	1,001	1,324	1,117	447	450	261	371	506

Table F.2.2-18-5c. San Joaquin River Flow below confluence with Merced , EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-199	-302	178	862	1,023	838	923	2,402	1,848	-466	-281	-196
20% Exceedance	-111	-308	-201	209	1,265	1,459	-606	1,865	225	-612	-250	-214
30% Exceedance	-123	-311	-240	-178	954	483	-1,737	154	-9	-146	-172	-161
40% Exceedance	-151	-319	-196	-216	615	-13	-1,882	51	-109	-193	-187	-176
50% Exceedance	-159	-276	-204	-231	-154	-507	-989	-296	-245	-248	-195	-178
60% Exceedance	-163	-273	-212	-230	-229	-626	-723	-264	-296	-277	-230	-179
70% Exceedance	-170	-247	-202	-230	-232	-594	-536	-238	-285	-276	-233	-183
80% Exceedance	-170	-269	-206	-232	-221	-642	-344	-214	-266	-288	-231	-190
90% Exceedance	-131	-224	-219	-251	-232	-634	-340	-191	-227	-230	-196	-153
Full Simulation Period Average^a	-109	-218	-169	-110	412	80	-486	301	247	-159	-198	-127
Wet Water Years (22%)	37	-25	-113	-219	1,742	1,400	660	1,371	1,660	70	-208	15
Above Normal Water Years (12%)	-123	-296	-154	370	838	533	-1,423	816	160	-156	-159	-148
Below Normal Water Years (15%)	-135	-285	-119	84	277	82	-1,334	88	-48	-183	-167	-144
Dry Water Years (17%)	-188	-311	-165	-227	-204	-593	-780	-284	-302	-283	-229	-199
Critical Water Years (34%)	-147	-237	-236	-235	-231	-599	-377	-187	-232	-236	-203	-168

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-6a. San Joaquin River Flow below confluence with Merced , EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,685	1,382	3,431	5,623	10,924	8,112	8,393	9,143	7,977	1,623	884	824
20% Exceedance	1,314	1,009	1,338	4,026	5,485	5,730	4,937	5,174	4,269	972	618	616
30% Exceedance	880	879	991	2,190	3,850	3,958	3,711	2,397	1,164	581	496	545
40% Exceedance	734	816	805	1,413	2,925	2,442	2,376	1,537	828	430	450	528
50% Exceedance	699	763	681	1,021	1,440	2,029	1,941	793	576	334	407	505
60% Exceedance	679	729	592	847	1,109	1,607	1,248	484	461	272	382	494
70% Exceedance	654	688	557	744	911	1,382	1,100	436	425	240	353	480
80% Exceedance	636	649	504	683	808	1,255	1,057	404	408	222	338	458
90% Exceedance	624	633	470	630	758	1,215	1,016	396	381	201	307	427
Full Simulation Period Average ^a	975	1,014	1,538	2,714	3,915	3,726	3,344	2,992	2,467	800	526	642
Wet Water Years (22%)	1,778	1,628	1,989	6,837	9,127	8,943	8,364	9,397	8,416	2,377	973	1,124
Above Normal Water Years (12%)	974	899	2,848	3,586	5,697	4,485	3,637	3,124	1,724	609	496	534
Below Normal Water Years (15%)	829	994	1,490	2,360	4,626	3,108	2,921	1,989	1,223	507	477	553
Dry Water Years (17%)	700	842	1,228	906	1,072	1,635	1,371	619	477	271	374	484
Critical Water Years (34%)	648	749	902	799	1,021	1,400	1,166	430	424	239	344	487

Table F.2.2-18-6b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,980	1,589	2,516	3,967	9,126	7,129	7,703	4,567	3,773	2,014	1,140	982
20% Exceedance	1,487	1,342	1,438	2,809	3,937	3,976	5,003	2,775	2,031	1,549	936	896
30% Exceedance	1,046	1,270	1,215	2,000	2,906	3,067	4,203	1,394	1,053	761	717	761
40% Exceedance	930	1,173	985	1,551	2,068	2,292	3,788	1,033	904	680	677	742
50% Exceedance	894	1,098	883	1,240	1,446	2,170	2,376	851	823	628	644	725
60% Exceedance	871	1,033	849	1,092	1,331	2,063	1,920	776	790	576	630	710
70% Exceedance	845	969	810	1,027	1,151	1,948	1,673	719	746	550	616	695
80% Exceedance	824	947	752	955	1,060	1,910	1,444	651	704	521	596	674
90% Exceedance	773	882	713	905	1,025	1,854	1,406	601	624	449	539	612
Full Simulation Period Average ^a	1,135	1,240	1,534	2,525	3,413	3,497	3,612	2,083	1,697	942	749	774
Wet Water Years (22%)	1,866	1,675	2,075	6,130	8,108	7,601	7,722	6,038	4,743	2,143	1,170	1,023
Above Normal Water Years (12%)	1,169	1,263	2,519	2,700	4,192	3,434	4,335	1,825	1,160	789	717	750
Below Normal Water Years (15%)	999	1,224	1,358	2,017	3,303	2,695	3,639	1,243	989	703	686	733
Dry Water Years (17%)	907	1,124	1,178	1,141	1,252	2,090	2,001	790	791	597	632	707
Critical Water Years (34%)	813	1,009	1,048	1,048	1,230	1,921	1,493	632	679	497	574	671

Table F.2.2-18-6c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	295	207	-915	-1,656	-1,798	-983	-690	-4,576	-4,204	391	255	158
20% Exceedance	173	333	100	-1,217	-1,547	-1,754	67	-2,399	-2,239	577	318	280
30% Exceedance	166	391	224	-190	-944	-891	492	-1,003	-111	180	221	216
40% Exceedance	196	357	180	138	-857	-150	1,412	-504	76	250	227	215
50% Exceedance	195	336	201	219	6	141	434	58	247	294	237	220
60% Exceedance	193	304	257	245	222	456	672	292	330	304	248	216
70% Exceedance	191	281	253	282	240	566	573	283	321	310	263	215
80% Exceedance	188	298	249	272	252	655	387	248	296	300	258	216
90% Exceedance	149	249	242	275	267	639	391	205	243	248	232	185
Full Simulation Period Average ^a	160	226	-4	-189	-501	-229	268	-909	-771	143	223	131
Wet Water Years (22%)	88	47	86	-706	-1,019	-1,342	-643	-3,359	-3,673	-233	196	-101
Above Normal Water Years (12%)	195	364	-329	-885	-1,505	-1,051	698	-1,299	-564	180	221	216
Below Normal Water Years (15%)	170	229	-132	-343	-1,323	-413	718	-745	-234	195	209	180
Dry Water Years (17%)	207	282	-50	235	181	455	630	170	314	326	258	223
Critical Water Years (34%)	165	261	146	249	209	520	327	202	255	258	230	184

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-7a. San Joaquin River Flow below confluence with Merced , EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,685	1,382	3,431	5,623	10,924	8,112	8,393	9,143	7,977	1,623	884	824
20% Exceedance	1,314	1,009	1,338	4,026	5,485	5,730	4,937	5,174	4,269	972	618	616
30% Exceedance	880	879	991	2,190	3,850	3,958	3,711	2,397	1,164	581	496	545
40% Exceedance	734	816	805	1,413	2,925	2,442	2,376	1,537	828	430	450	528
50% Exceedance	699	763	681	1,021	1,440	2,029	1,941	793	576	334	407	505
60% Exceedance	679	729	592	847	1,109	1,607	1,248	484	461	272	382	494
70% Exceedance	654	688	557	744	911	1,382	1,100	436	425	240	353	480
80% Exceedance	636	649	504	683	808	1,255	1,057	404	408	222	338	458
90% Exceedance	624	633	470	630	758	1,215	1,016	396	381	201	307	427
Full Simulation Period Average ^a	975	1,014	1,538	2,714	3,915	3,726	3,344	2,992	2,467	800	526	642
Wet Water Years (22%)	1,778	1,628	1,989	6,837	9,127	8,943	8,364	9,397	8,416	2,377	973	1,124
Above Normal Water Years (12%)	974	899	2,848	3,586	5,697	4,485	3,637	3,124	1,724	609	496	534
Below Normal Water Years (15%)	829	994	1,490	2,360	4,626	3,108	2,921	1,989	1,223	507	477	553
Dry Water Years (17%)	700	842	1,228	906	1,072	1,635	1,371	619	477	271	374	484
Critical Water Years (34%)	648	749	902	799	1,021	1,400	1,166	430	424	239	344	487

Table F.2.2-18-7b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,977	1,590	2,515	3,967	9,127	7,125	7,699	4,742	3,772	2,014	1,139	982
20% Exceedance	1,487	1,342	1,437	2,809	3,937	3,976	5,035	2,775	2,030	1,548	936	895
30% Exceedance	1,045	1,270	1,214	2,000	2,908	3,067	4,209	1,394	1,053	761	713	761
40% Exceedance	930	1,172	985	1,550	2,067	2,292	3,802	1,033	904	680	675	742
50% Exceedance	893	1,095	883	1,239	1,447	2,170	2,375	854	823	628	643	727
60% Exceedance	871	1,033	849	1,092	1,330	2,064	1,984	776	790	576	629	712
70% Exceedance	846	968	808	1,026	1,150	1,947	1,679	719	746	545	615	695
80% Exceedance	824	947	752	955	1,060	1,910	1,462	650	703	517	596	674
90% Exceedance	773	882	713	905	1,025	1,854	1,406	600	624	449	539	612
Full Simulation Period Average ^a	1,135	1,240	1,533	2,526	3,412	3,496	3,631	2,090	1,697	942	748	774
Wet Water Years (22%)	1,865	1,674	2,074	6,130	8,103	7,599	7,730	6,044	4,747	2,143	1,169	1,023
Above Normal Water Years (12%)	1,169	1,263	2,519	2,701	4,193	3,434	4,367	1,866	1,159	789	716	750
Below Normal Water Years (15%)	998	1,224	1,358	2,019	3,303	2,695	3,667	1,250	989	702	686	733
Dry Water Years (17%)	907	1,124	1,178	1,140	1,252	2,090	2,030	790	791	596	631	710
Critical Water Years (34%)	813	1,009	1,047	1,047	1,230	1,920	1,505	632	679	496	574	671

Table F.2.2-18-7c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	292	208	-916	-1,656	-1,797	-986	-694	-4,400	-4,206	390	255	158
20% Exceedance	173	332	99	-1,217	-1,547	-1,754	98	-2,399	-2,239	575	318	279
30% Exceedance	165	391	224	-190	-943	-891	498	-1,003	-111	180	217	216
40% Exceedance	196	356	180	137	-858	-150	1,426	-504	76	250	225	214
50% Exceedance	195	333	201	219	6	141	434	61	247	294	236	222
60% Exceedance	192	304	257	244	222	457	736	292	329	304	247	218
70% Exceedance	192	280	251	282	239	566	579	283	320	305	262	215
80% Exceedance	187	298	248	272	252	655	405	247	295	295	258	216
90% Exceedance	149	249	243	275	267	640	390	204	243	248	232	185
Full Simulation Period Average ^a	160	225	-4	-189	-502	-230	287	-902	-770	142	222	132
Wet Water Years (22%)	87	46	86	-707	-1,023	-1,344	-634	-3,353	-3,669	-234	196	-101
Above Normal Water Years (12%)	195	364	-329	-885	-1,504	-1,051	730	-1,258	-565	180	220	215
Below Normal Water Years (15%)	170	229	-132	-341	-1,323	-414	747	-738	-234	195	209	180
Dry Water Years (17%)	207	281	-50	234	180	455	659	171	313	325	257	225
Critical Water Years (34%)	165	260	146	248	209	520	339	202	255	257	229	184

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-8a. San Joaquin River Flow below confluence with Merced , EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,685	1,382	3,431	5,623	10,924	8,112	8,393	9,143	7,977	1,623	884	824
20% Exceedance	1,314	1,009	1,338	4,026	5,485	5,730	4,937	5,174	4,269	972	618	616
30% Exceedance	880	879	991	2,190	3,850	3,958	3,711	2,397	1,164	581	496	545
40% Exceedance	734	816	805	1,413	2,925	2,442	2,376	1,537	828	430	450	528
50% Exceedance	699	763	681	1,021	1,440	2,029	1,941	793	576	334	407	505
60% Exceedance	679	729	592	847	1,109	1,607	1,248	484	461	272	382	494
70% Exceedance	654	688	557	744	911	1,382	1,100	436	425	240	353	480
80% Exceedance	636	649	504	683	808	1,255	1,057	404	408	222	338	458
90% Exceedance	624	633	470	630	758	1,215	1,016	396	381	201	307	427
Full Simulation Period Average ^a	975	1,014	1,538	2,714	3,915	3,726	3,344	2,992	2,467	800	526	642
Wet Water Years (22%)	1,778	1,628	1,989	6,837	9,127	8,943	8,364	9,397	8,416	2,377	973	1,124
Above Normal Water Years (12%)	974	899	2,848	3,586	5,697	4,485	3,637	3,124	1,724	609	496	534
Below Normal Water Years (15%)	829	994	1,490	2,360	4,626	3,108	2,921	1,989	1,223	507	477	553
Dry Water Years (17%)	700	842	1,228	906	1,072	1,635	1,371	619	477	271	374	484
Critical Water Years (34%)	648	749	902	799	1,021	1,400	1,166	430	424	239	344	487

Table F.2.2-18-8b. San Joaquin River Flow below confluence with Merced , Alt2woTUCPAILVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,980	1,589	2,517	3,967	9,141	7,127	7,706	4,654	3,773	2,014	1,140	982
20% Exceedance	1,487	1,342	1,438	2,809	3,938	3,976	5,073	2,776	2,031	1,665	949	896
30% Exceedance	1,046	1,270	1,215	2,000	2,908	3,067	4,209	1,394	1,054	955	724	766
40% Exceedance	936	1,173	985	1,600	2,068	2,292	3,802	1,033	904	777	689	748
50% Exceedance	895	1,096	885	1,243	1,447	2,170	2,376	854	823	690	656	730
60% Exceedance	872	1,033	849	1,092	1,331	2,071	1,990	781	790	637	633	718
70% Exceedance	846	969	809	1,027	1,151	1,955	1,673	719	748	598	621	700
80% Exceedance	824	950	753	955	1,063	1,911	1,462	651	704	522	597	676
90% Exceedance	772	882	713	906	1,026	1,855	1,407	600	623	450	543	614
Full Simulation Period Average ^a	1,135	1,241	1,535	2,535	3,417	3,499	3,633	2,089	1,698	997	754	777
Wet Water Years (22%)	1,866	1,675	2,075	6,165	8,100	7,598	7,734	6,050	4,748	2,179	1,173	1,025
Above Normal Water Years (12%)	1,169	1,263	2,520	2,701	4,228	3,436	4,371	1,840	1,161	885	720	750
Below Normal Water Years (15%)	999	1,224	1,358	2,019	3,303	2,698	3,669	1,251	989	831	700	739
Dry Water Years (17%)	908	1,124	1,183	1,149	1,257	2,098	2,031	792	791	665	639	715
Critical Water Years (34%)	814	1,010	1,048	1,048	1,230	1,923	1,505	632	680	510	576	674

Table F.2.2-18-8c. San Joaquin River Flow below confluence with Merced , Alt2woTUCPAILVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	295	207	-914	-1,656	-1,783	-985	-687	-4,489	-4,205	391	255	158
20% Exceedance	173	333	100	-1,217	-1,547	-1,754	136	-2,398	-2,239	693	331	280
30% Exceedance	165	391	224	-190	-942	-891	498	-1,003	-110	373	228	220
40% Exceedance	202	357	180	187	-857	-149	1,426	-504	76	347	240	221
50% Exceedance	196	333	204	222	7	141	435	61	247	356	249	225
60% Exceedance	193	304	258	245	222	464	742	296	330	365	251	224
70% Exceedance	192	281	252	283	240	574	573	283	323	358	267	220
80% Exceedance	188	301	249	272	255	655	405	247	296	300	259	218
90% Exceedance	148	249	243	276	268	640	391	204	242	249	236	187
Full Simulation Period Average ^a	160	226	-3	-179	-498	-227	289	-903	-769	197	228	135
Wet Water Years (22%)	88	47	86	-671	-1,027	-1,346	-631	-3,347	-3,668	-198	200	-99
Above Normal Water Years (12%)	196	364	-328	-884	-1,468	-1,049	734	-1,284	-563	276	224	216
Below Normal Water Years (15%)	170	229	-132	-341	-1,323	-410	748	-737	-234	323	222	186
Dry Water Years (17%)	209	282	-45	244	185	462	660	172	314	394	265	231
Critical Water Years (34%)	166	261	147	249	210	523	340	202	256	271	232	187

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-9a. San Joaquin River Flow below confluence with Merced , EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,685	1,382	3,431	5,623	10,924	8,112	8,393	9,143	7,977	1,623	884	824
20% Exceedance	1,314	1,009	1,338	4,026	5,485	5,730	4,937	5,174	4,269	972	618	616
30% Exceedance	880	879	991	2,190	3,850	3,958	3,711	2,397	1,164	581	496	545
40% Exceedance	734	816	805	1,413	2,925	2,442	2,376	1,537	828	430	450	528
50% Exceedance	699	763	681	1,021	1,440	2,029	1,941	793	576	334	407	505
60% Exceedance	679	729	592	847	1,109	1,607	1,248	484	461	272	382	494
70% Exceedance	654	688	557	744	911	1,382	1,100	436	425	240	353	480
80% Exceedance	636	649	504	683	808	1,255	1,057	404	408	222	338	458
90% Exceedance	624	633	470	630	758	1,215	1,016	396	381	201	307	427
Full Simulation Period Average ^a	975	1,014	1,538	2,714	3,915	3,726	3,344	2,992	2,467	800	526	642
Wet Water Years (22%)	1,778	1,628	1,989	6,837	9,127	8,943	8,364	9,397	8,416	2,377	973	1,124
Above Normal Water Years (12%)	974	899	2,848	3,586	5,697	4,485	3,637	3,124	1,724	609	496	534
Below Normal Water Years (15%)	829	994	1,490	2,360	4,626	3,108	2,921	1,989	1,223	507	477	553
Dry Water Years (17%)	700	842	1,228	906	1,072	1,635	1,371	619	477	271	374	484
Critical Water Years (34%)	648	749	902	799	1,021	1,400	1,166	430	424	239	344	487

Table F.2.2-18-9b. San Joaquin River Flow below confluence with Merced , Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,979	1,590	2,518	3,968	9,129	7,129	7,704	4,567	3,775	2,014	1,140	982
20% Exceedance	1,487	1,343	1,438	2,809	3,936	3,977	5,005	2,776	2,031	1,548	936	896
30% Exceedance	1,046	1,271	1,215	2,001	2,909	3,067	4,204	1,395	1,054	762	717	763
40% Exceedance	930	1,173	986	1,551	2,068	2,292	3,788	1,033	904	681	677	743
50% Exceedance	894	1,098	883	1,240	1,447	2,170	2,376	851	823	629	644	725
60% Exceedance	872	1,033	849	1,092	1,331	2,065	1,920	777	789	577	631	710
70% Exceedance	846	969	811	1,026	1,151	1,948	1,674	719	747	551	617	695
80% Exceedance	824	948	752	956	1,061	1,910	1,445	651	704	515	597	675
90% Exceedance	773	882	713	906	1,025	1,853	1,407	601	625	450	540	613
Full Simulation Period Average ^a	1,135	1,241	1,534	2,526	3,413	3,497	3,614	2,083	1,697	941	749	774
Wet Water Years (22%)	1,866	1,675	2,075	6,130	8,103	7,601	7,727	6,039	4,744	2,144	1,170	1,024
Above Normal Water Years (12%)	1,169	1,263	2,520	2,701	4,193	3,435	4,336	1,824	1,161	789	718	749
Below Normal Water Years (15%)	999	1,224	1,358	2,018	3,304	2,695	3,639	1,244	989	703	687	735
Dry Water Years (17%)	907	1,125	1,178	1,141	1,253	2,091	2,001	790	791	598	632	708
Critical Water Years (34%)	814	1,010	1,048	1,048	1,230	1,921	1,493	632	680	494	573	672

Table F.2.2-18-9c. San Joaquin River Flow below confluence with Merced , Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	294	208	-913	-1,655	-1,794	-983	-689	-4,576	-4,202	391	256	158
20% Exceedance	173	333	100	-1,217	-1,549	-1,753	68	-2,398	-2,238	576	318	280
30% Exceedance	166	392	224	-189	-942	-891	493	-1,002	-110	180	221	217
40% Exceedance	196	357	180	138	-857	-149	1,411	-503	77	251	227	216
50% Exceedance	196	336	202	219	6	141	435	58	247	295	236	220
60% Exceedance	193	304	258	245	222	457	672	293	329	305	249	216
70% Exceedance	192	281	254	282	240	567	574	283	321	311	263	215
80% Exceedance	188	299	249	273	253	655	388	248	296	293	259	216
90% Exceedance	149	248	243	275	268	638	391	205	244	249	232	186
Full Simulation Period Average ^a	160	226	-4	-188	-502	-229	270	-909	-770	142	223	132
Wet Water Years (22%)	88	47	87	-706	-1,023	-1,342	-638	-3,359	-3,672	-233	196	-100
Above Normal Water Years (12%)	196	364	-329	-885	-1,504	-1,050	699	-1,300	-563	180	222	215
Below Normal Water Years (15%)	170	230	-132	-343	-1,322	-413	718	-745	-234	196	210	182
Dry Water Years (17%)	208	282	-50	235	181	455	630	170	314	326	258	224
Critical Water Years (34%)	166	261	147	249	210	521	327	203	256	254	228	185

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-18-10a. San Joaquin River Flow below confluence with Merced , EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,685	1,382	3,431	5,623	10,924	8,112	8,393	9,143	7,977	1,623	884	824
20% Exceedance	1,314	1,009	1,338	4,026	5,485	5,730	4,937	5,174	4,269	972	618	616
30% Exceedance	880	879	991	2,190	3,850	3,958	3,711	2,397	1,164	581	496	545
40% Exceedance	734	816	805	1,413	2,925	2,442	2,376	1,537	828	430	450	528
50% Exceedance	699	763	681	1,021	1,440	2,029	1,941	793	576	334	407	505
60% Exceedance	679	729	592	847	1,109	1,607	1,248	484	461	272	382	494
70% Exceedance	654	688	557	744	911	1,382	1,100	436	425	240	353	480
80% Exceedance	636	649	504	683	808	1,255	1,057	404	408	222	338	458
90% Exceedance	624	633	470	630	758	1,215	1,016	396	381	201	307	427
Full Simulation Period Average ^a	975	1,014	1,538	2,714	3,915	3,726	3,344	2,992	2,467	800	526	642
Wet Water Years (22%)	1,778	1,628	1,989	6,837	9,127	8,943	8,364	9,397	8,416	2,377	973	1,124
Above Normal Water Years (12%)	974	899	2,848	3,586	5,697	4,485	3,637	3,124	1,724	609	496	534
Below Normal Water Years (15%)	829	994	1,490	2,360	4,626	3,108	2,921	1,989	1,223	507	477	553
Dry Water Years (17%)	700	842	1,228	906	1,072	1,635	1,371	619	477	271	374	484
Critical Water Years (34%)	648	749	902	799	1,021	1,400	1,166	430	424	239	344	487

Table F.2.2-18-10b. San Joaquin River Flow below confluence with Merced , NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,987	1,590	2,520	3,969	9,118	7,139	7,744	4,673	3,779	2,016	1,141	984
20% Exceedance	1,484	1,343	1,440	2,811	3,941	3,978	5,005	2,777	2,031	1,550	938	903
30% Exceedance	1,047	1,271	1,216	2,002	2,910	3,069	4,205	1,395	1,055	763	712	764
40% Exceedance	931	1,174	992	1,553	2,069	2,295	3,789	1,034	905	682	680	743
50% Exceedance	897	1,100	884	1,241	1,450	2,172	2,378	854	825	630	648	728
60% Exceedance	872	1,034	851	1,094	1,332	2,067	1,921	778	788	578	630	709
70% Exceedance	847	971	811	1,026	1,154	1,949	1,675	721	750	550	616	695
80% Exceedance	825	949	754	958	1,062	1,912	1,447	653	705	525	598	676
90% Exceedance	775	883	717	909	1,027	1,854	1,408	602	628	452	542	614
Full Simulation Period Average ^a	1,137	1,242	1,536	2,528	3,413	3,500	3,619	2,088	1,700	944	750	776
Wet Water Years (22%)	1,868	1,677	2,077	6,134	8,111	7,611	7,750	6,055	4,751	2,148	1,172	1,026
Above Normal Water Years (12%)	1,170	1,264	2,522	2,702	4,177	3,433	4,336	1,826	1,162	790	717	751
Below Normal Water Years (15%)	1,000	1,225	1,359	2,019	3,301	2,696	3,640	1,244	990	705	688	736
Dry Water Years (17%)	909	1,127	1,180	1,143	1,255	2,092	2,003	791	793	599	633	708
Critical Water Years (34%)	815	1,012	1,051	1,050	1,233	1,923	1,493	634	682	497	575	674

Table F.2.2-18-10c. San Joaquin River Flow below confluence with Merced , NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	301	208	-911	-1,654	-1,806	-973	-649	-4,470	-4,198	393	256	160
20% Exceedance	170	334	102	-1,215	-1,544	-1,752	68	-2,397	-2,238	578	320	288
30% Exceedance	167	392	225	-188	-941	-889	493	-1,002	-109	182	216	219
40% Exceedance	197	358	187	139	-855	-147	1,412	-502	77	252	230	216
50% Exceedance	198	338	203	221	10	143	436	61	248	296	240	223
60% Exceedance	194	305	259	247	224	459	673	293	328	306	248	215
70% Exceedance	193	283	254	282	243	568	575	285	325	310	263	215
80% Exceedance	189	300	250	275	254	657	390	249	297	303	260	218
90% Exceedance	151	250	247	278	270	639	392	206	247	251	234	187
Full Simulation Period Average ^a	162	228	-2	-186	-501	-226	275	-904	-768	144	224	133
Wet Water Years (22%)	89	49	88	-702	-1,016	-1,332	-615	-3,342	-3,665	-229	199	-98
Above Normal Water Years (12%)	196	365	-326	-884	-1,520	-1,052	699	-1,298	-562	181	221	216
Below Normal Water Years (15%)	171	230	-131	-341	-1,325	-412	719	-744	-233	198	211	183
Dry Water Years (17%)	210	284	-48	237	184	457	632	172	315	327	259	223
Critical Water Years (34%)	167	263	149	251	212	522	328	204	257	258	230	187

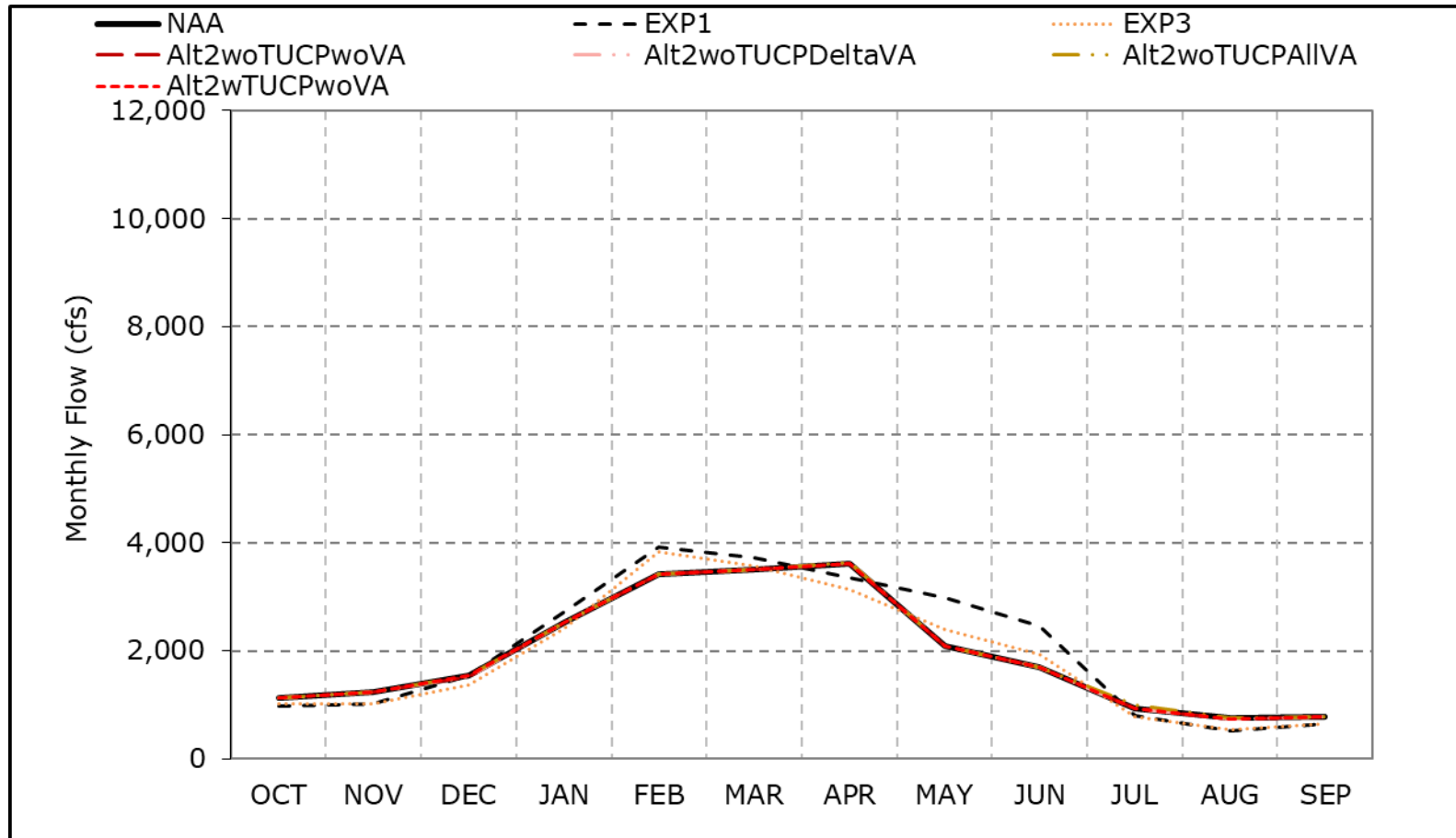
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-18-1. San Joaquin River Flow below confluence with Merced , Long-Term Average Flow

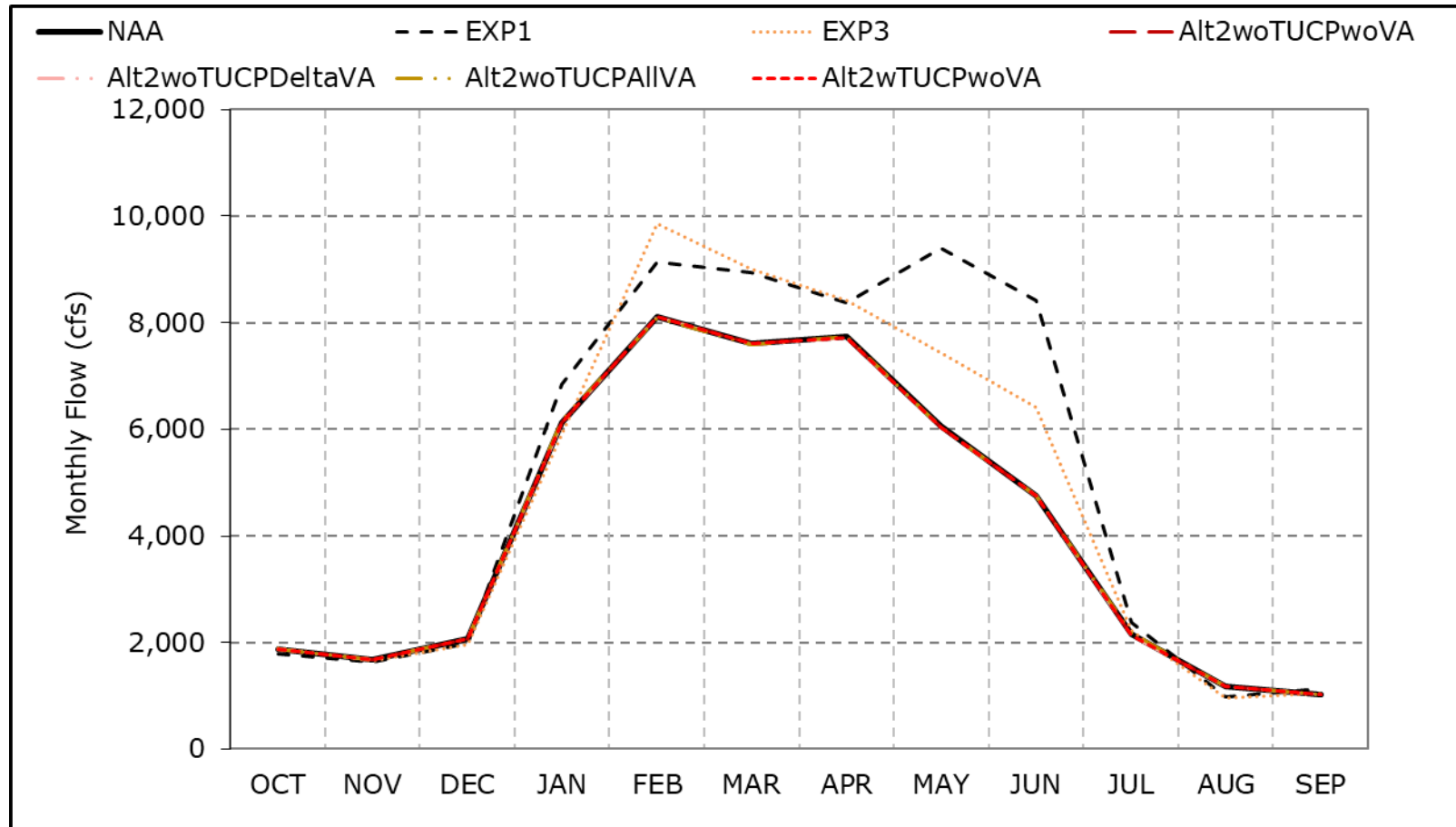


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.2-18-2. San Joaquin River Flow below confluence with Merced , Wet
Year Average Flow**

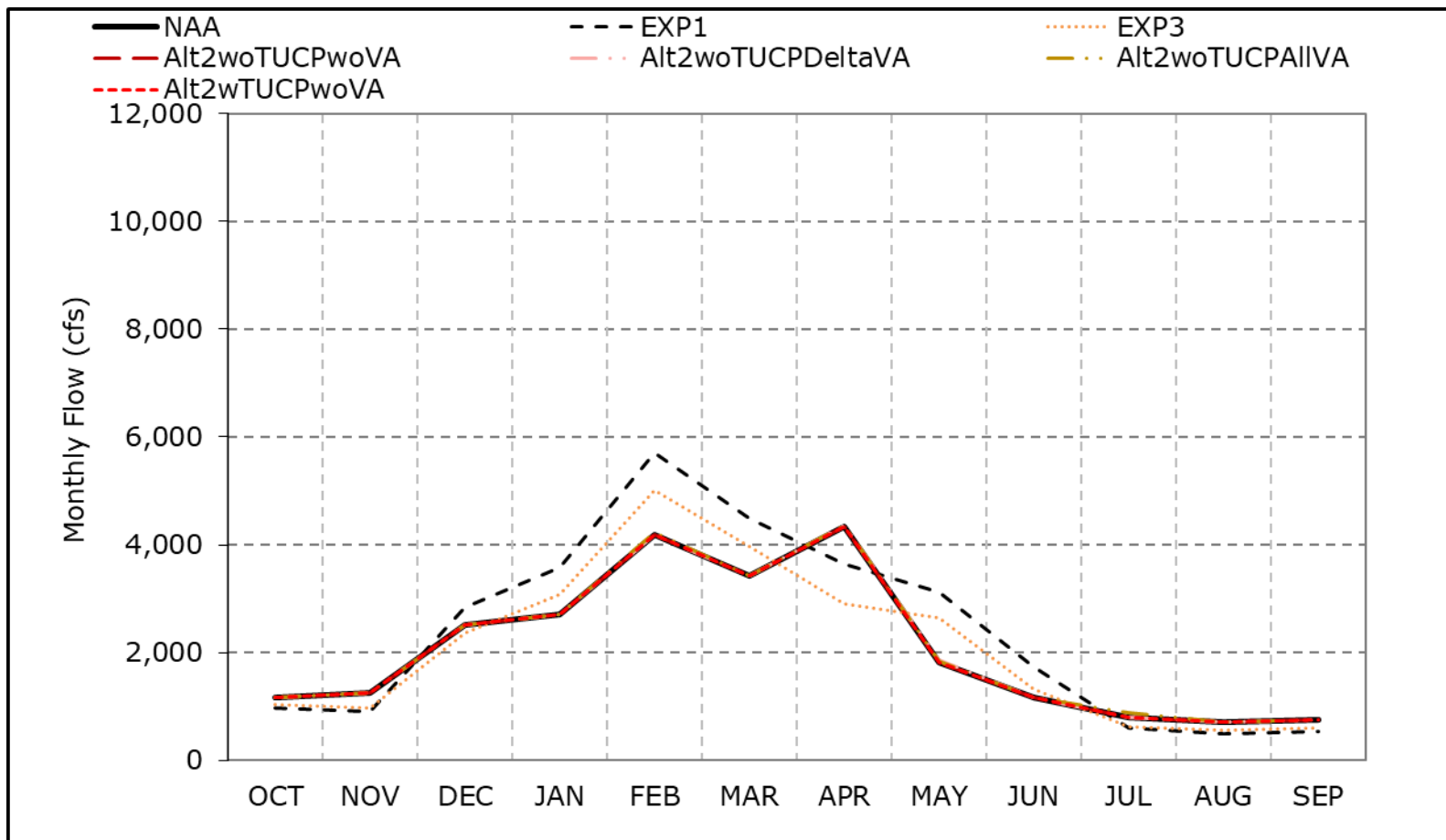


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-3. San Joaquin River Flow below confluence with Merced , Above Normal Year Average Flow

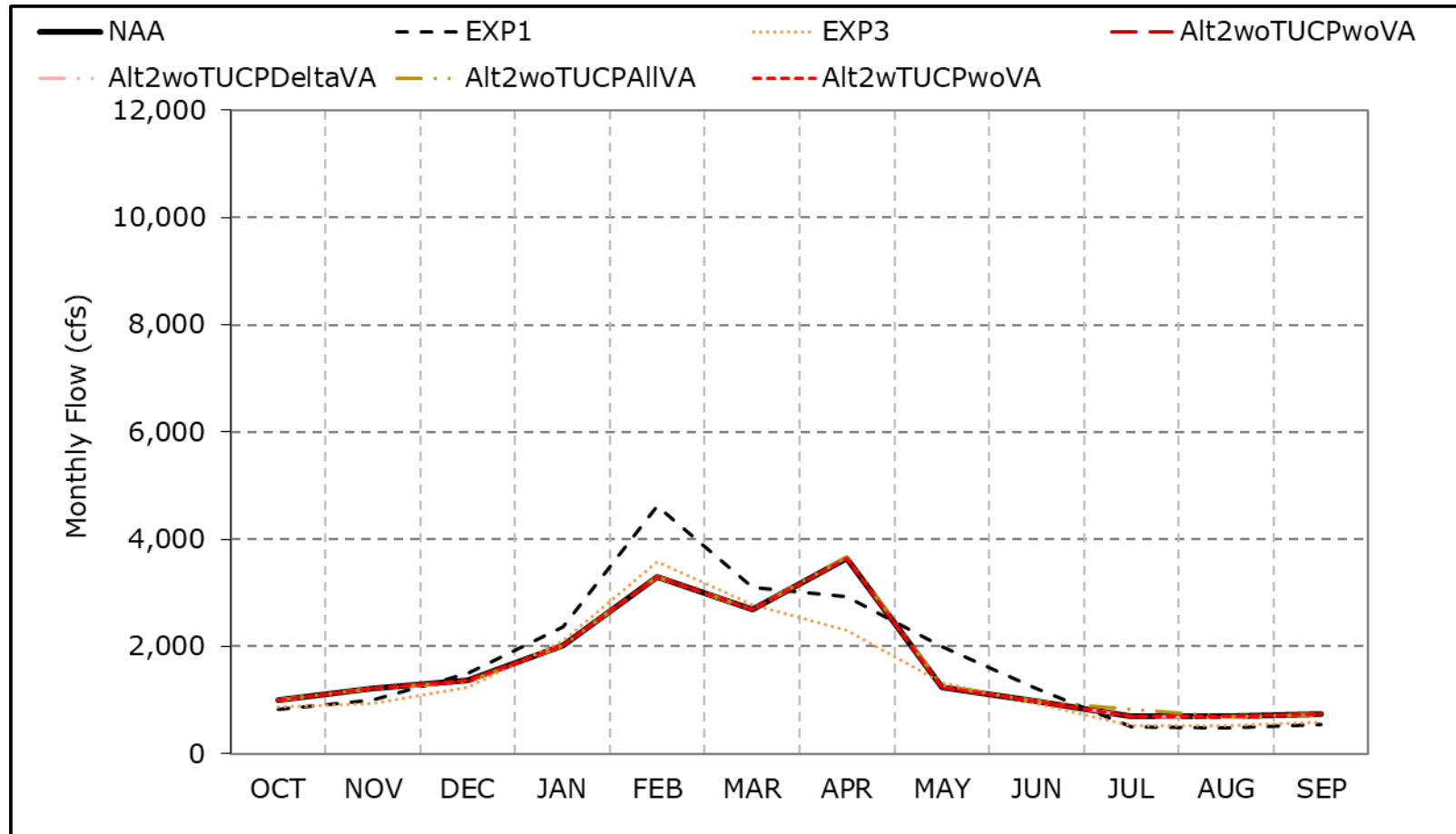


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-4. San Joaquin River Flow below confluence with Merced , Below Normal Year Average Flow

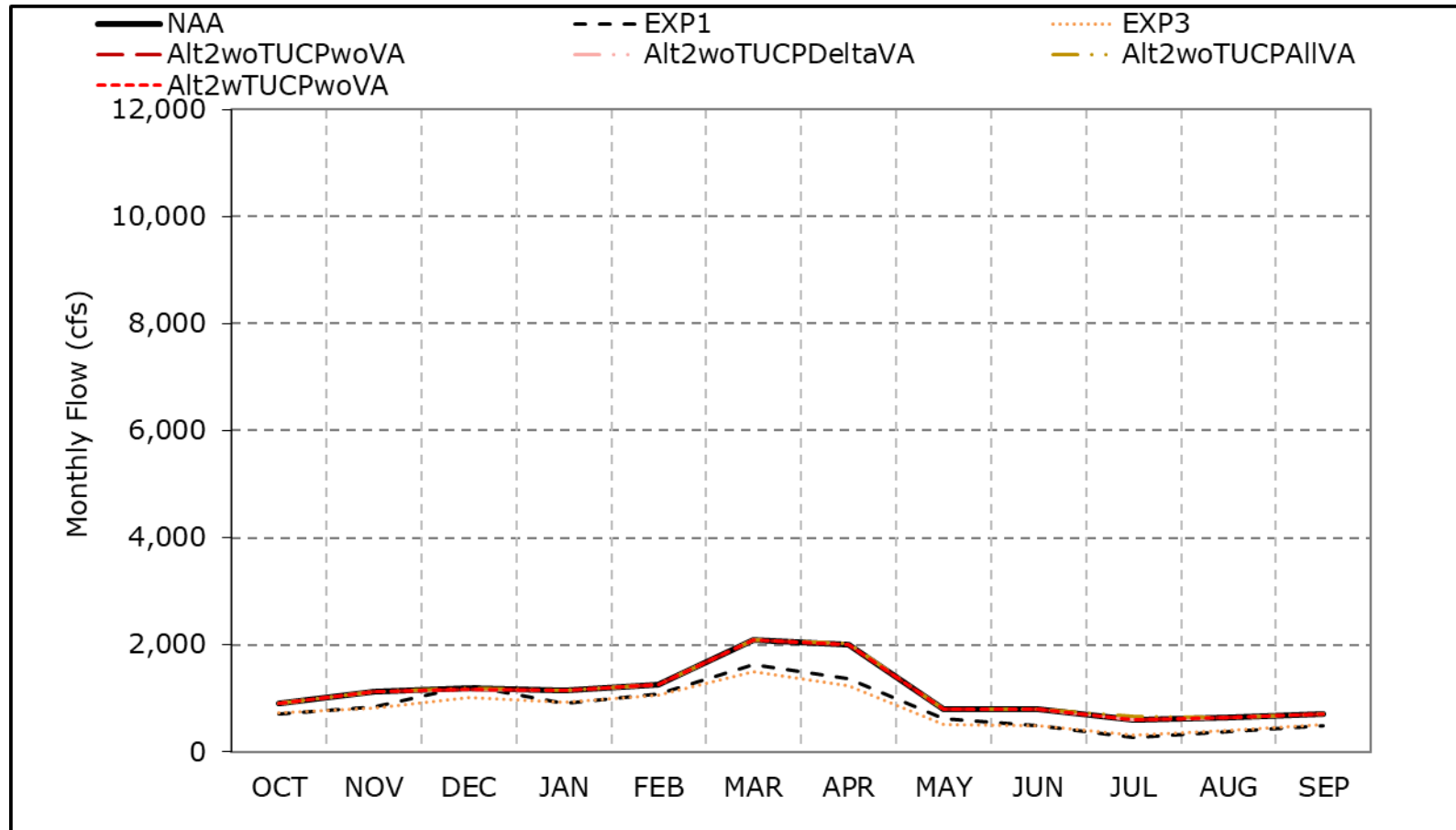


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.2-18-5. San Joaquin River Flow below confluence with Merced , Dry
Year Average Flow**

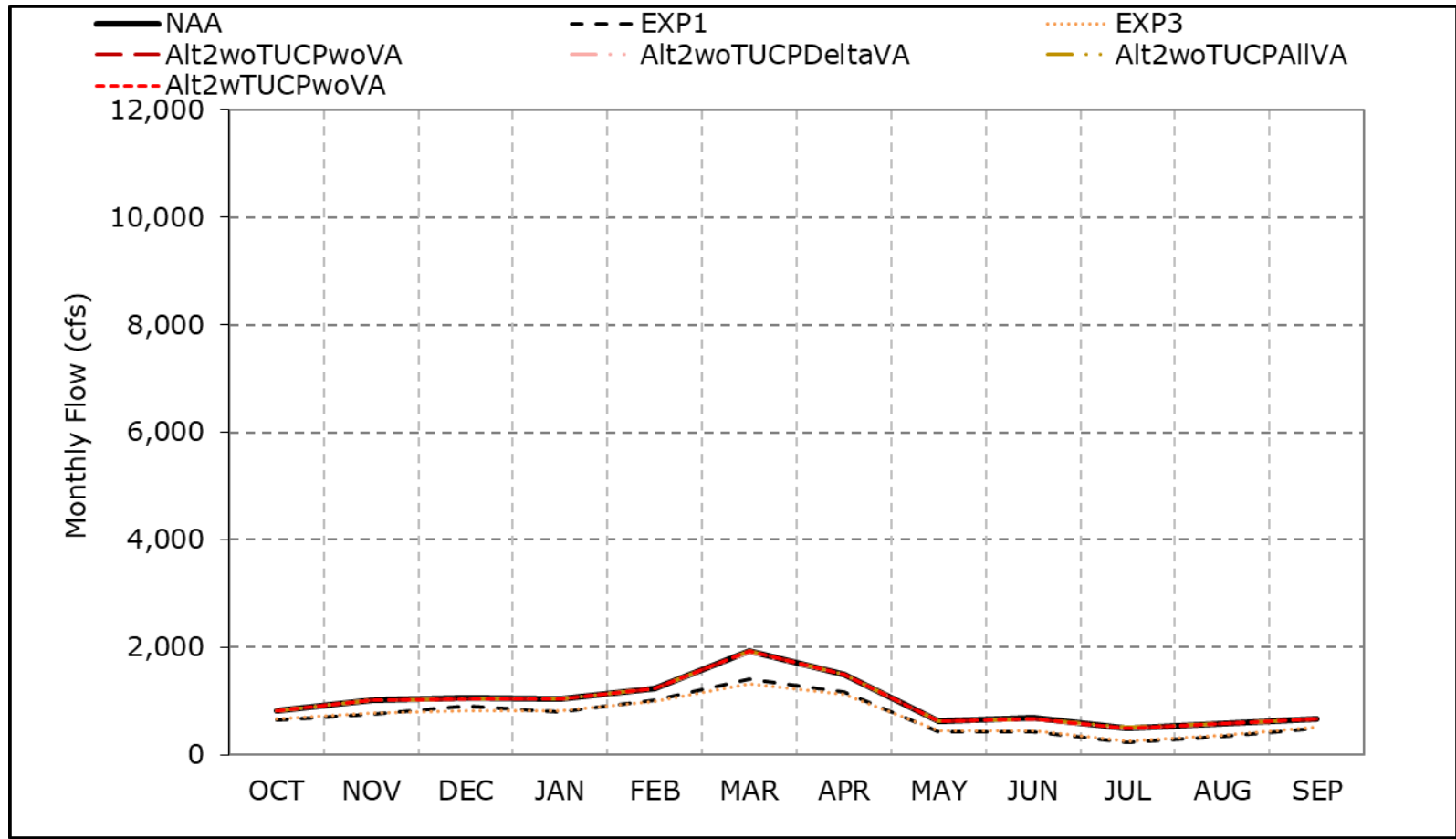


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-6. San Joaquin River Flow below confluence with Merced , Critical Year Average Flow

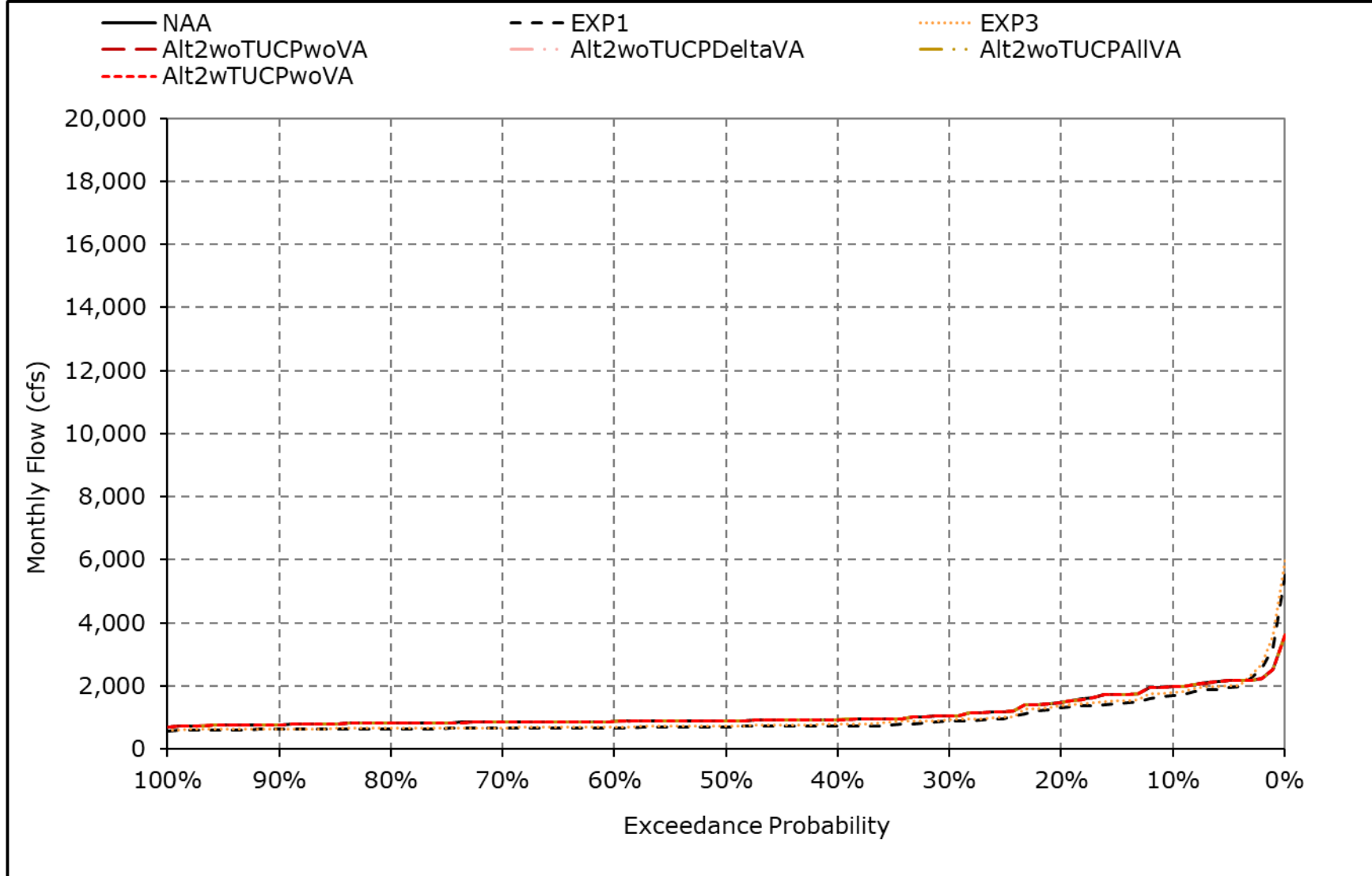


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

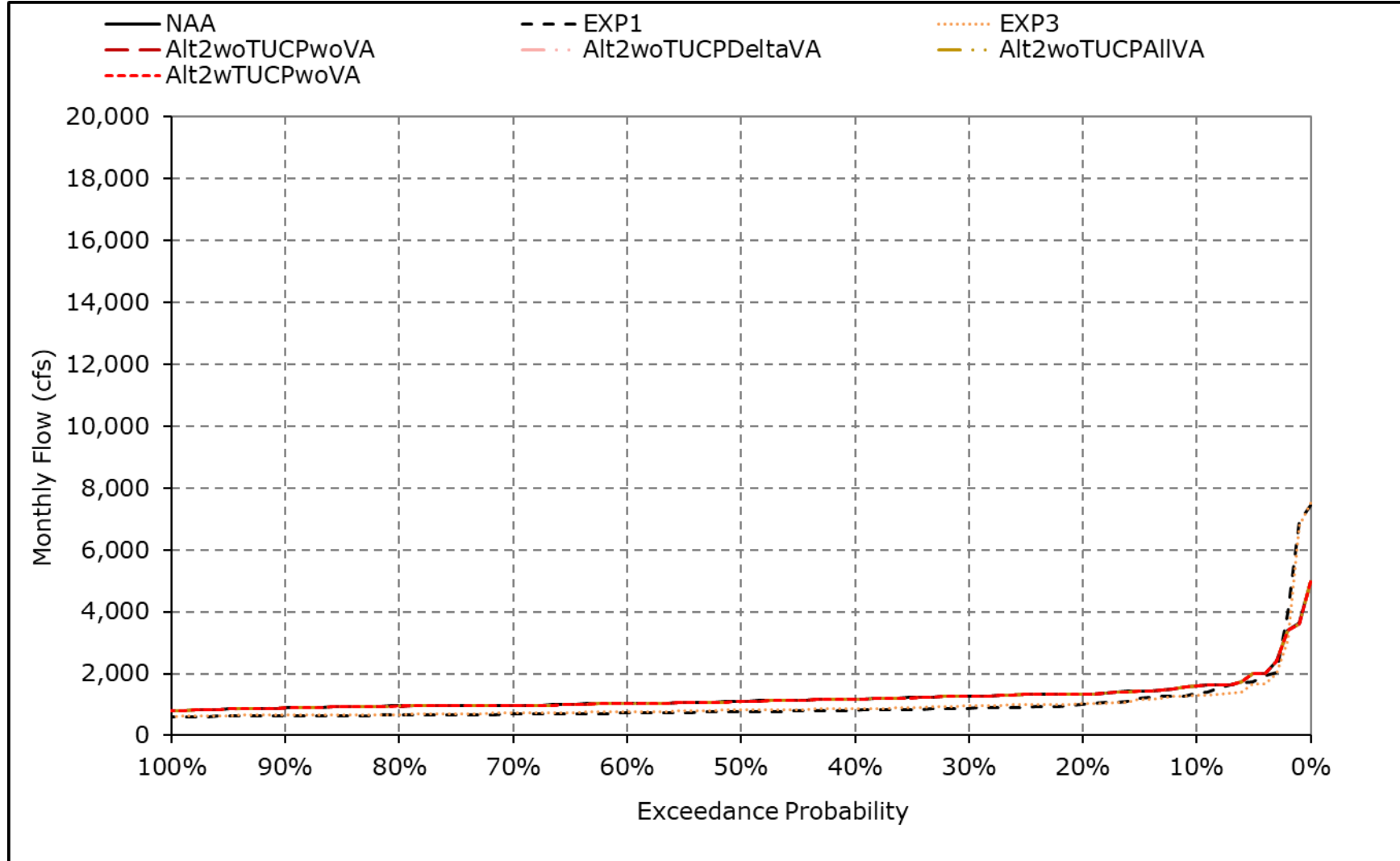
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-7. San Joaquin River Flow below confluence with Merced , October



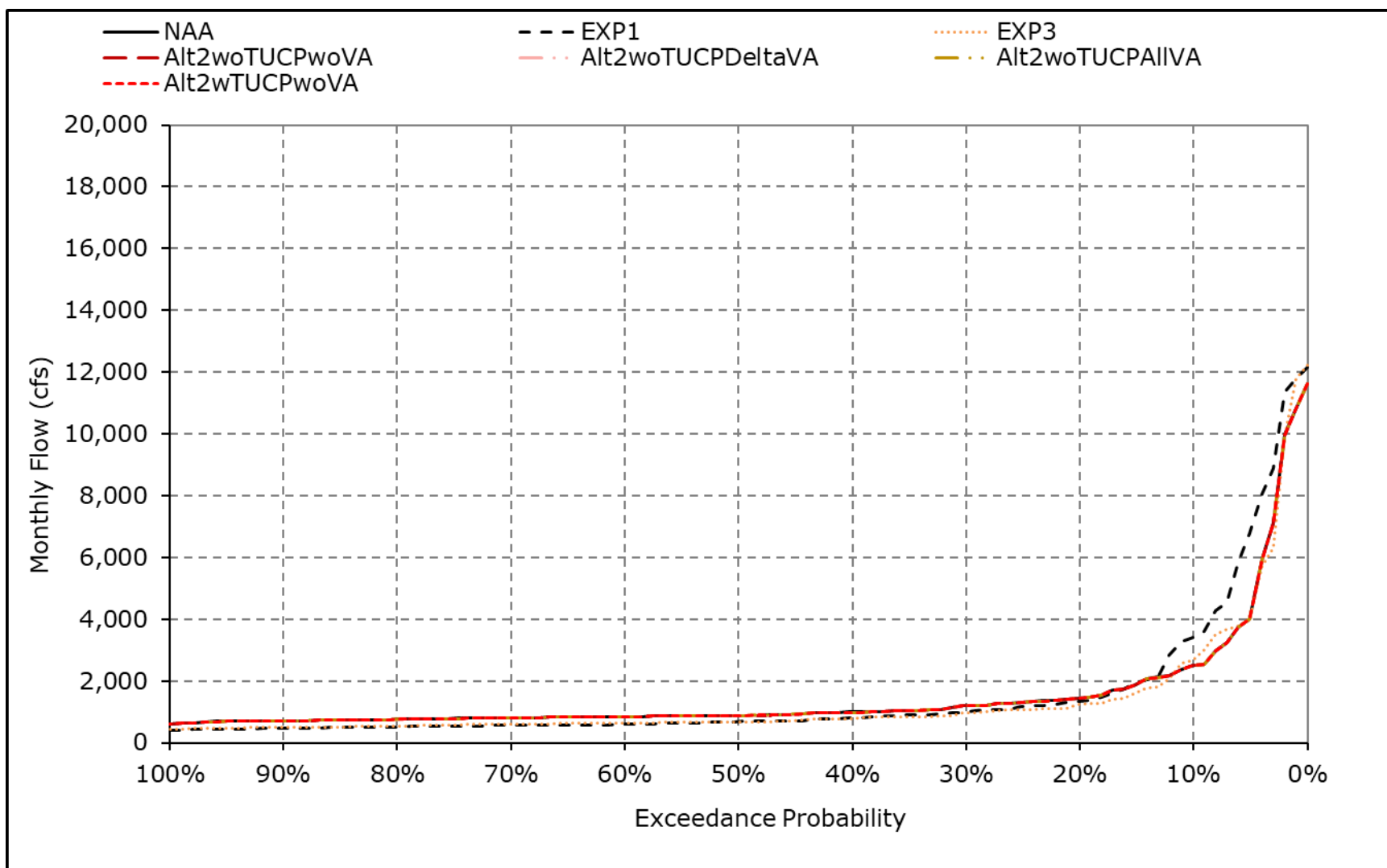
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-8. San Joaquin River Flow below confluence with Merced , November



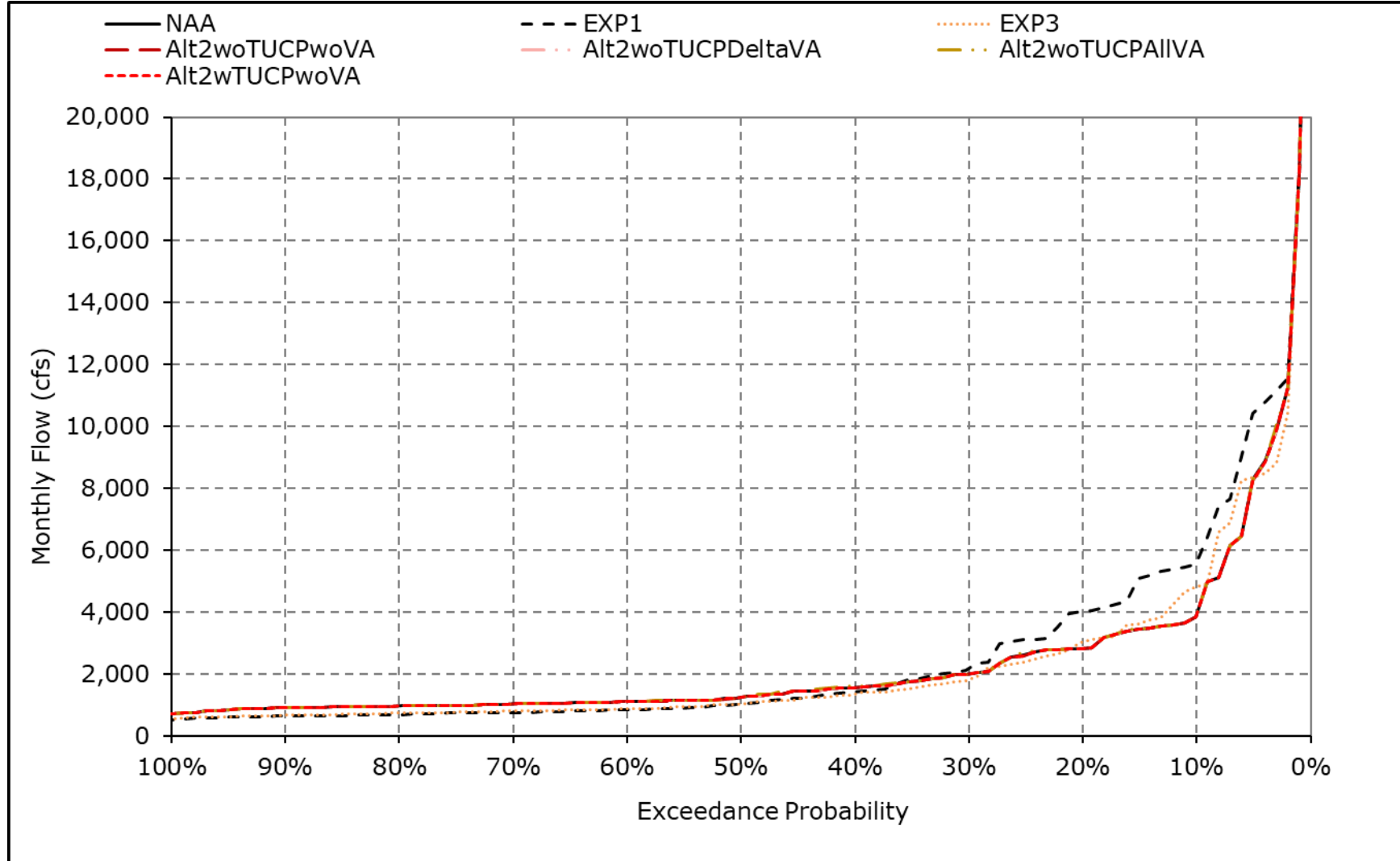
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-9. San Joaquin River Flow below confluence with Merced , December



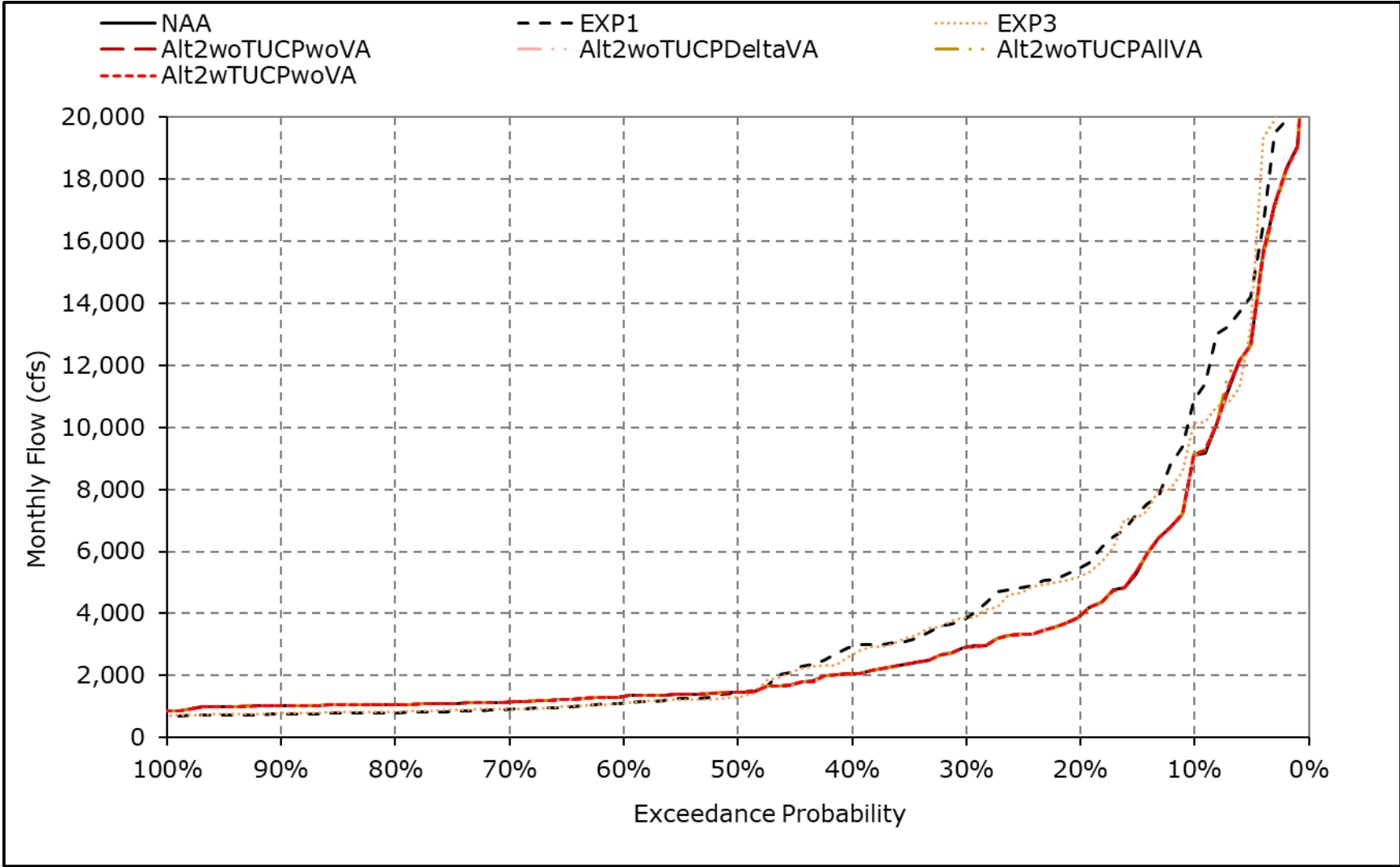
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-10. San Joaquin River Flow below confluence with Merced , January



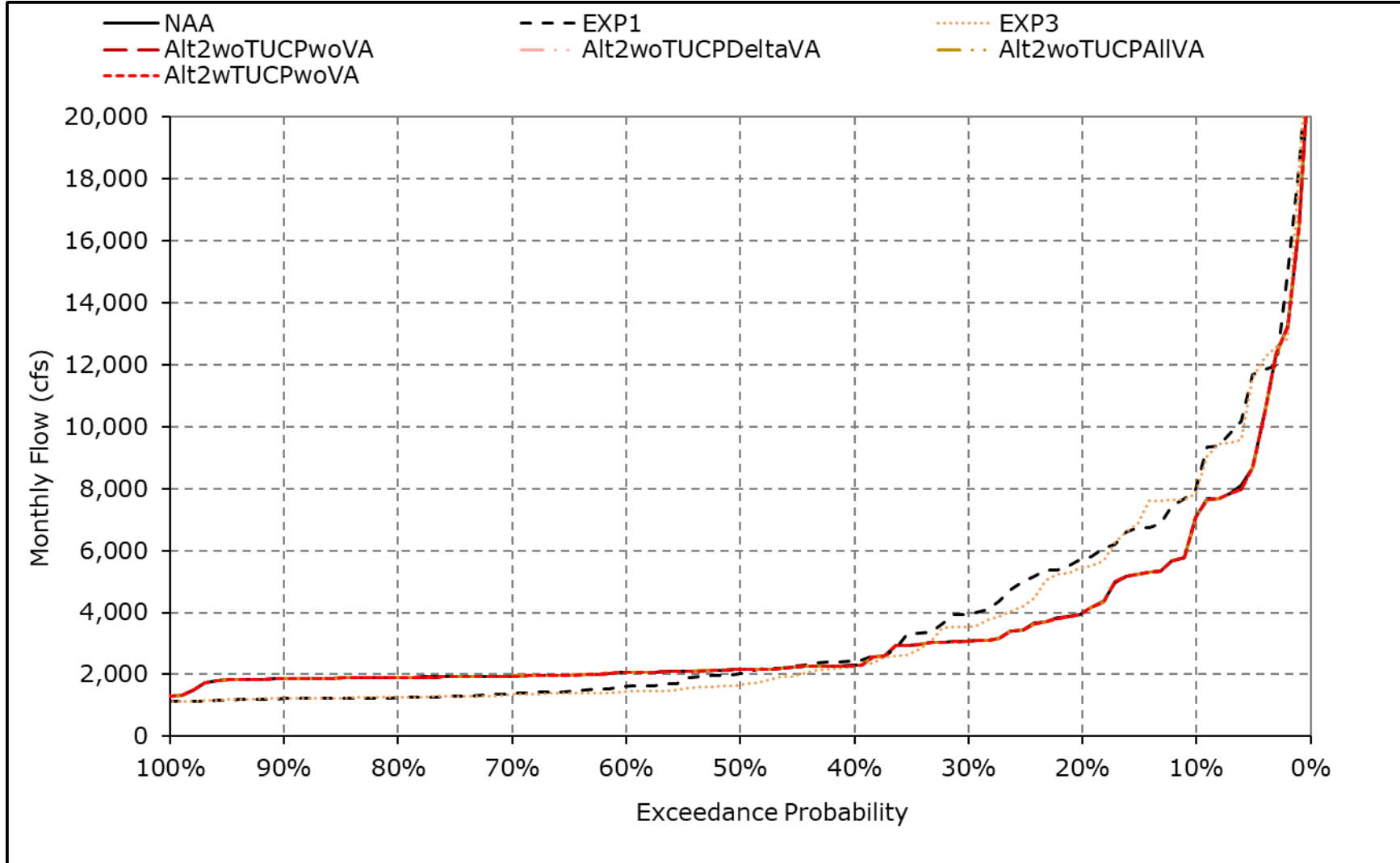
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-11. San Joaquin River Flow below confluence with Merced , February



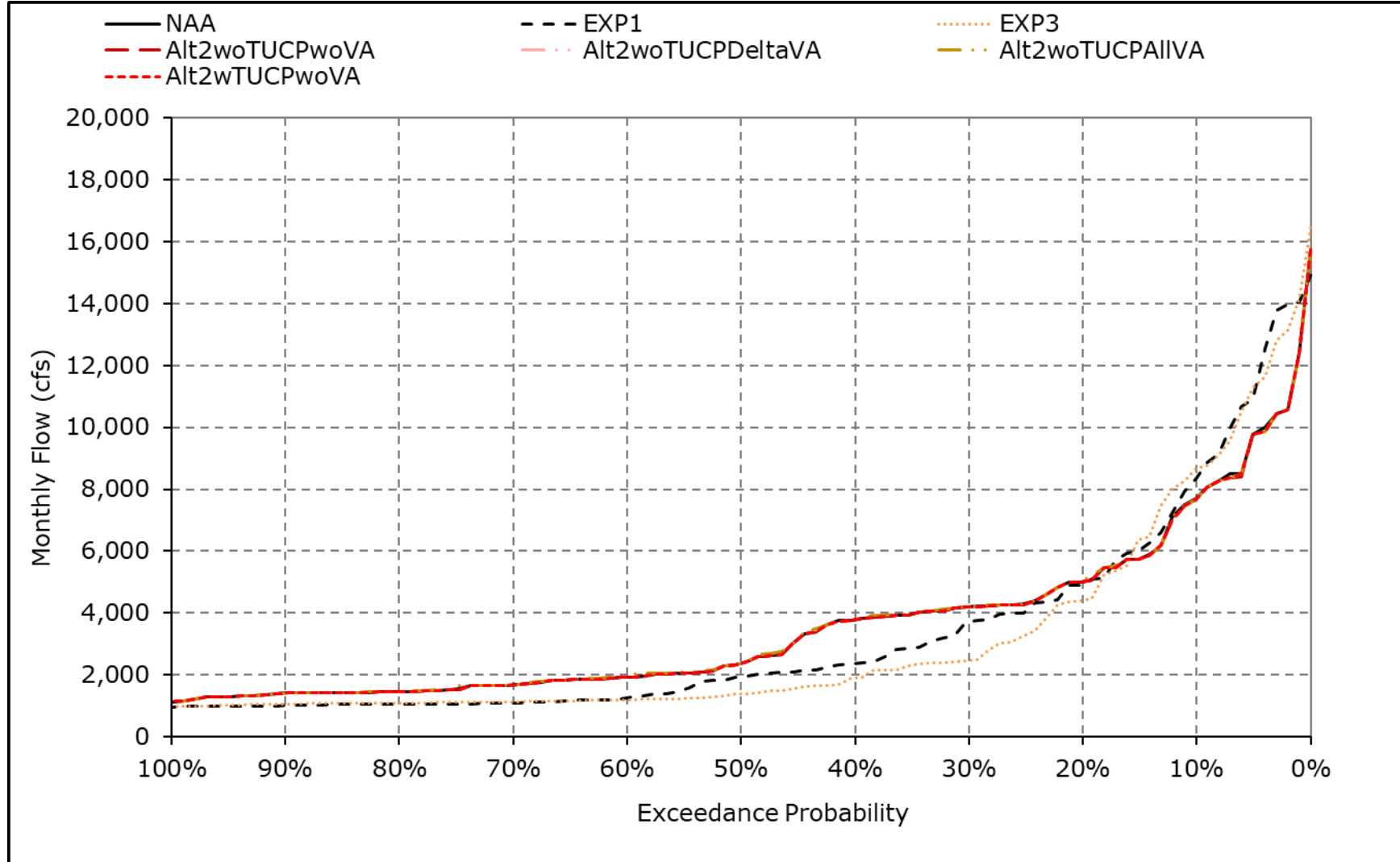
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-12. San Joaquin River Flow below confluence with Merced , March



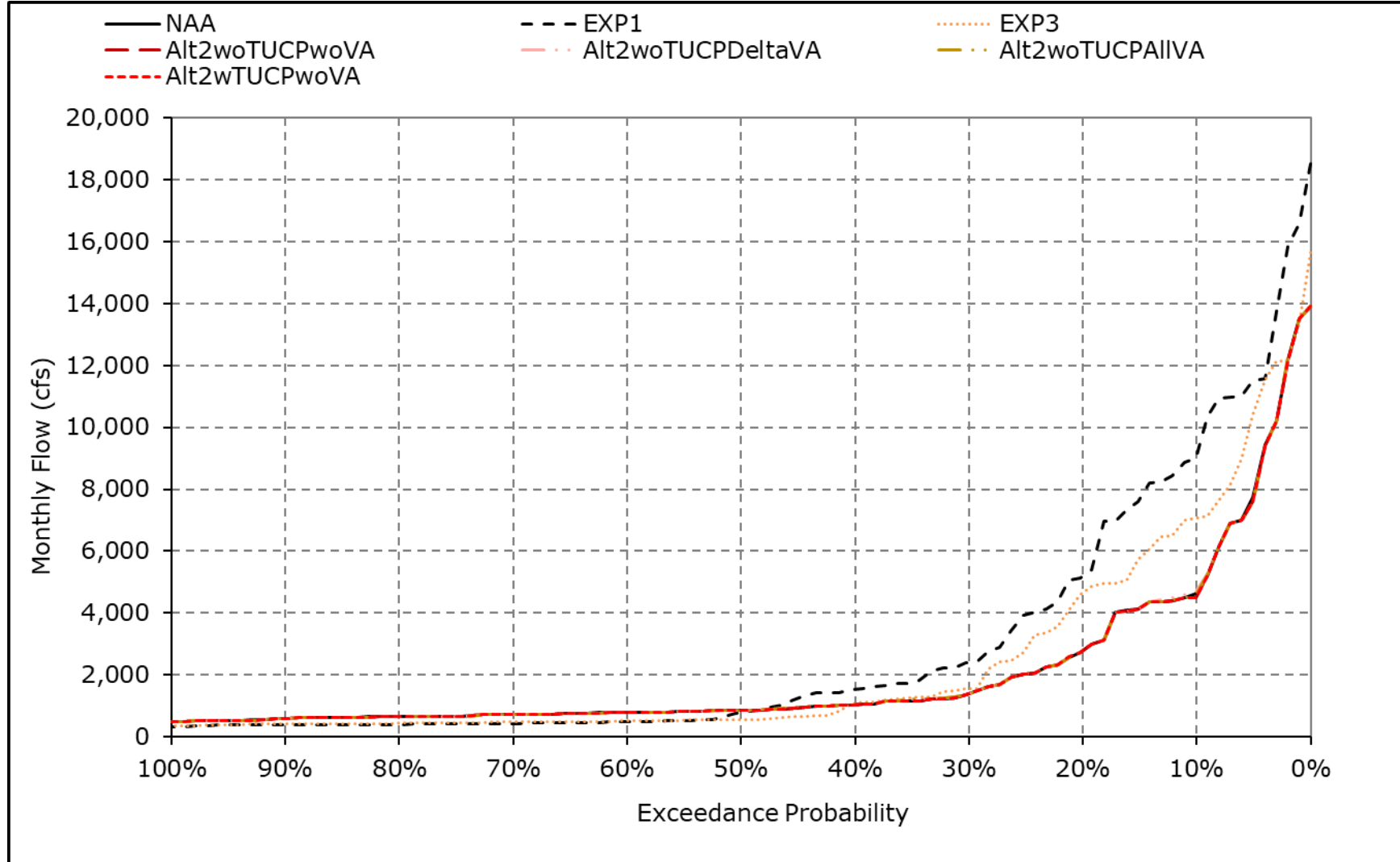
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-13. San Joaquin River Flow below confluence with Merced , April



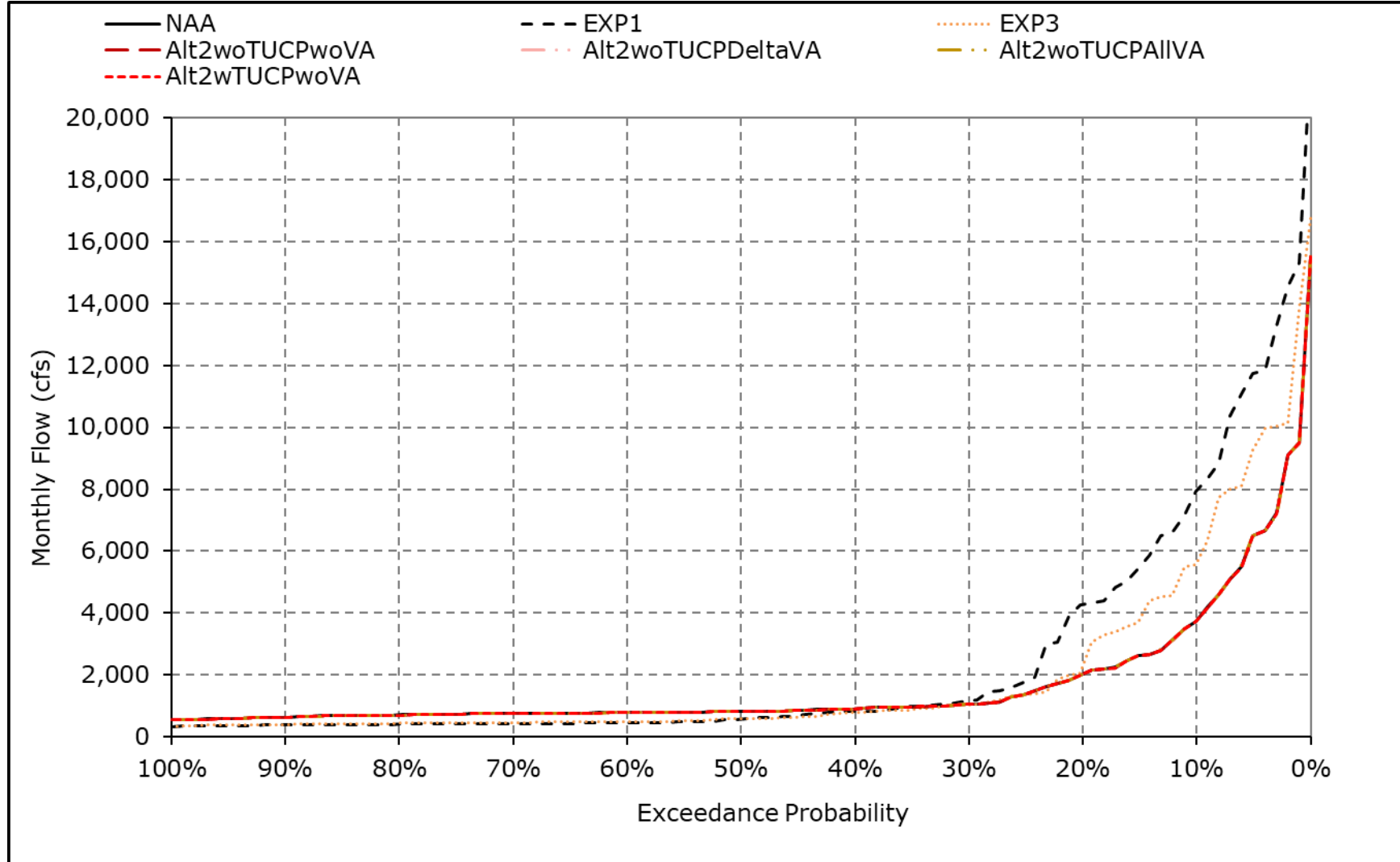
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-14. San Joaquin River Flow below confluence with Merced , May



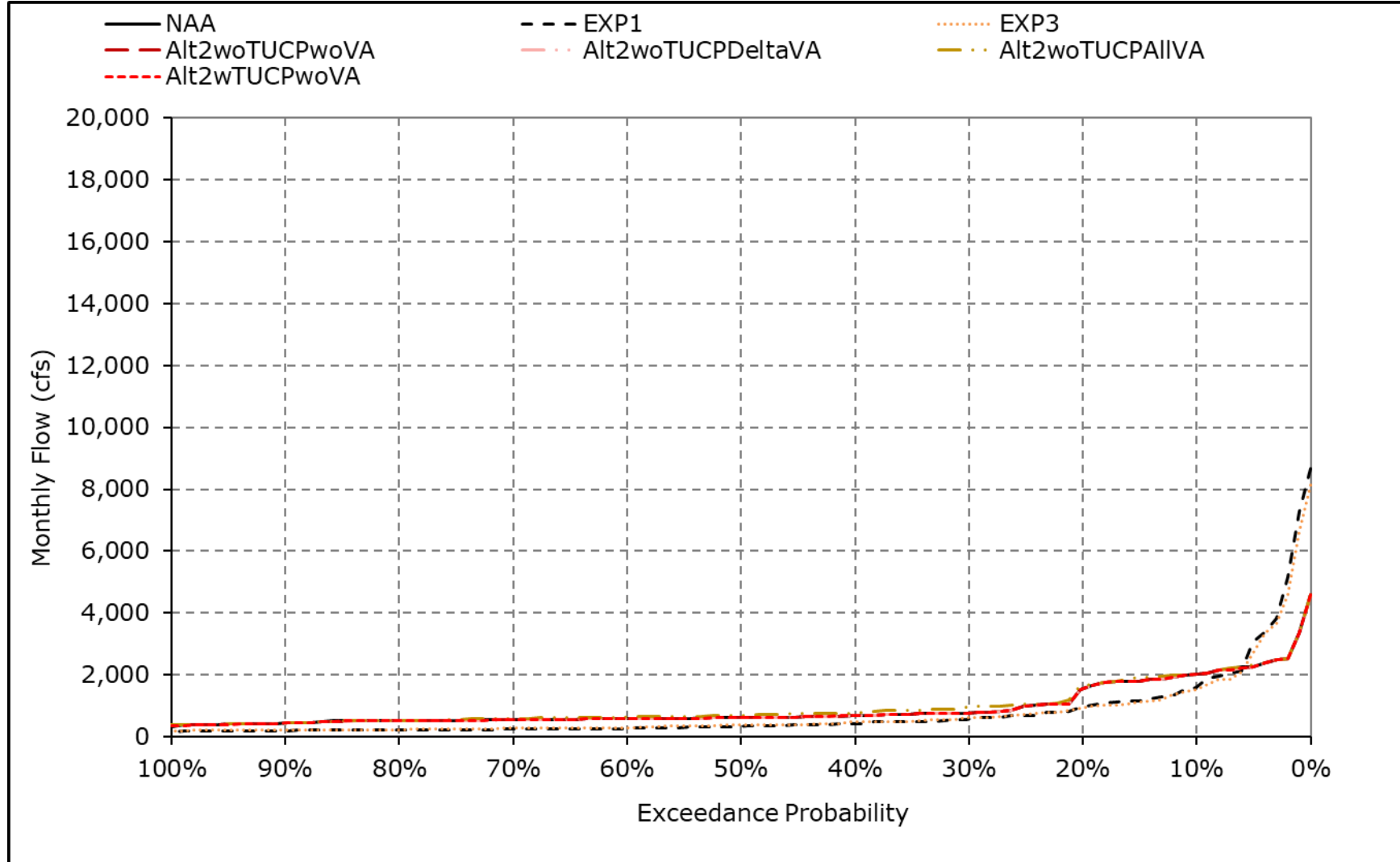
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-15. San Joaquin River Flow below confluence with Merced , June



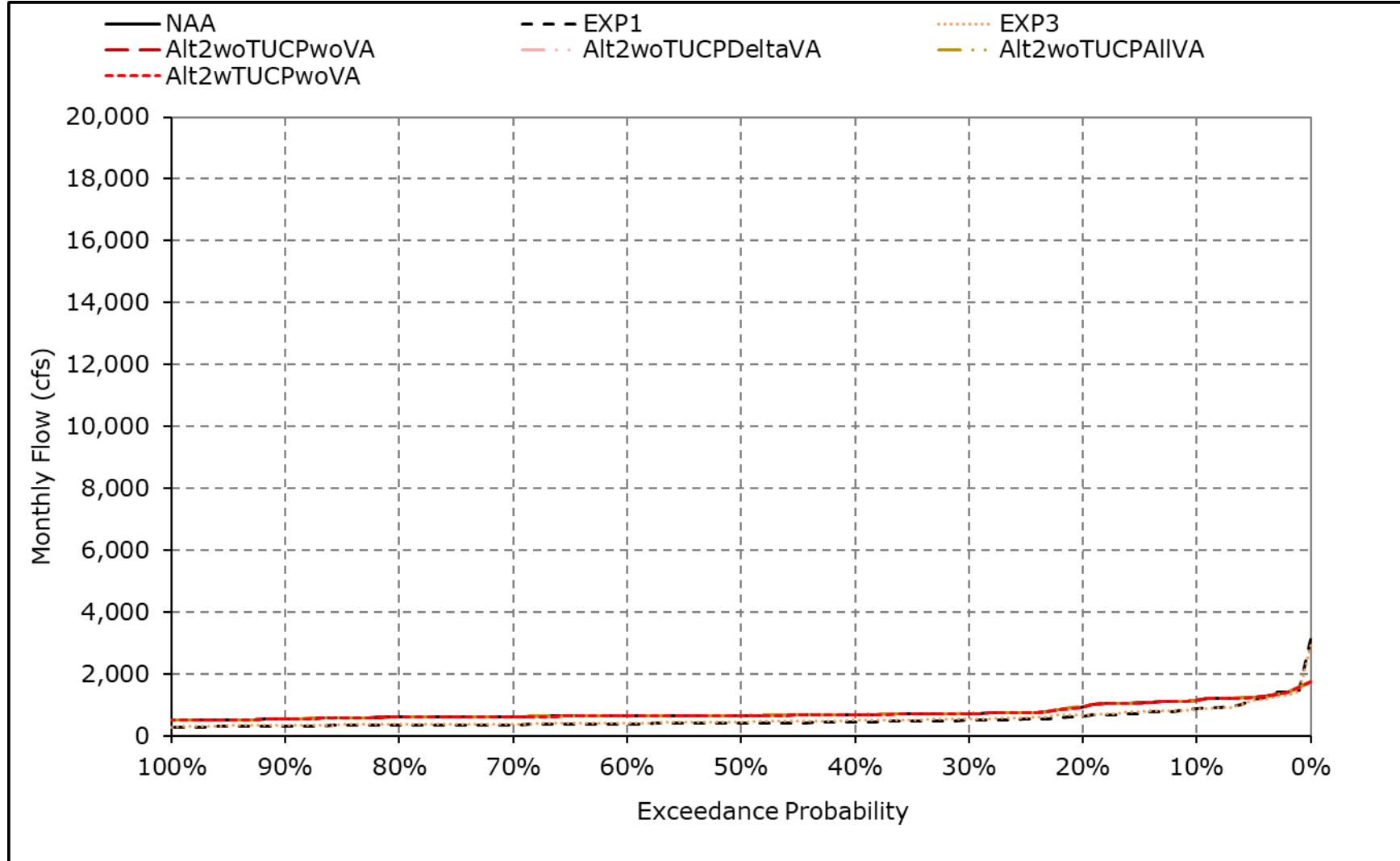
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-16. San Joaquin River Flow below confluence with Merced , July



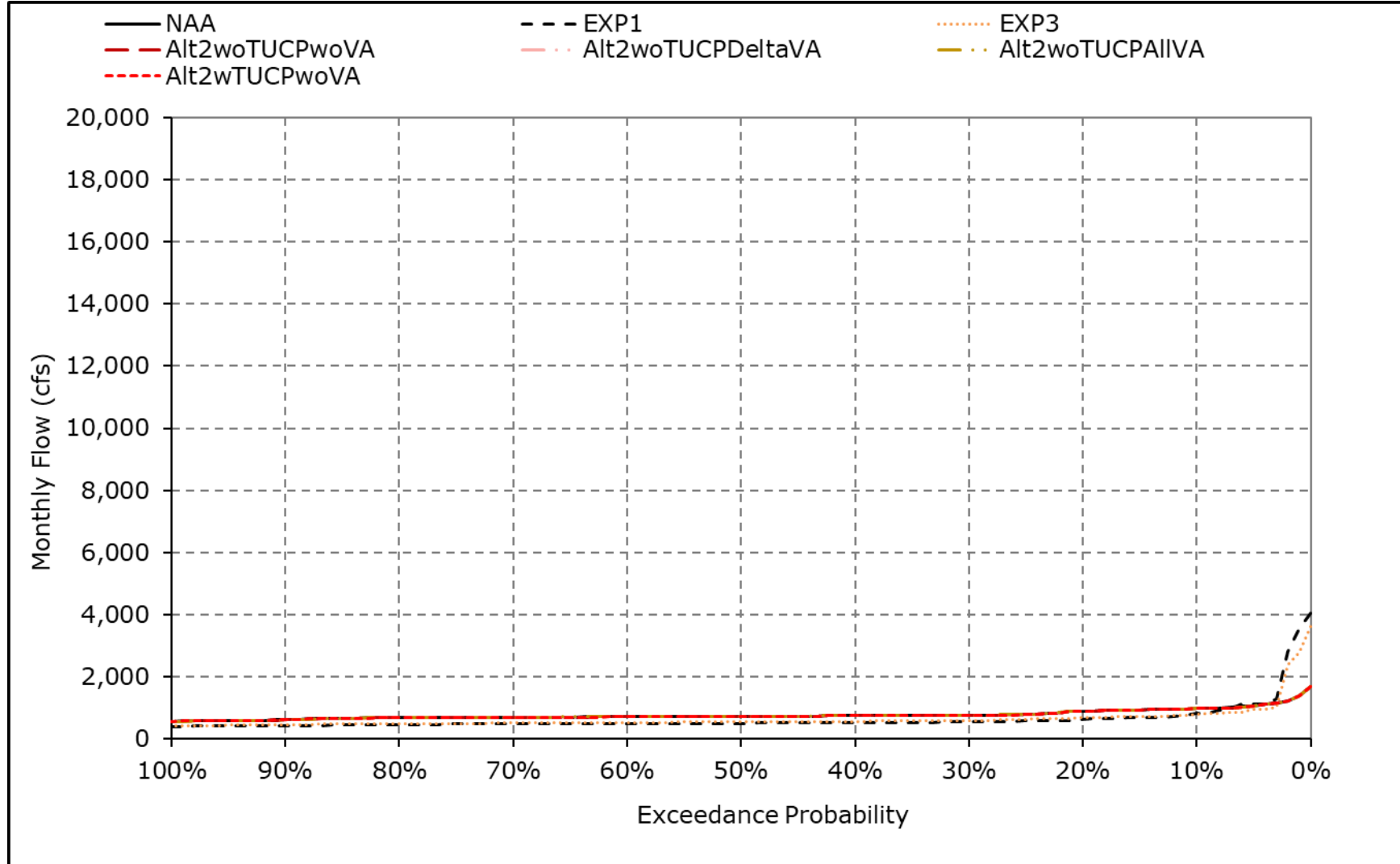
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-17. San Joaquin River Flow below confluence with Merced , August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-18-18. San Joaquin River Flow below confluence with Merced , September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-19-1a. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-1b. Stanislaus River Flow below Goodwin, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	249	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	396	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	306	527	799	1,045	769	944	1,046	434	307	464	438
Wet Water Years (22%)	906	657	889	1,619	2,155	1,783	1,743	2,301	782	289	941	1,096
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	440	345	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	246	434	208	460	400	365	374	390	249

Table F.2.2-19-1c. Stanislaus River Flow below Goodwin, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-11	161	-61	224	0	-17	47	0	0	621	127
20% Exceedance	-23	0	34	0	-9	-112	-17	-313	-577	-35	-14	-50
30% Exceedance	0	0	0	-32	30	-116	-112	0	0	0	0	0
40% Exceedance	0	0	0	-26	160	0	-633	0	0	0	0	0
50% Exceedance	-69	0	0	-26	157	0	-295	0	0	0	0	0
60% Exceedance	-58	0	0	-19	118	0	-9	-231	0	0	0	0
70% Exceedance	0	0	0	-13	72	0	0	0	0	0	0	0
80% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
90% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-11	0	33	-39	67	-33	-81	-32	-6	34	52	8
Wet Water Years (22%)	-6	0	45	-148	0	-119	21	30	-180	-11	72	30
Above Normal Water Years (12%)	0	3	12	-8	103	4	-105	0	0	0	0	8
Below Normal Water Years (15%)	-28	0	51	-9	30	-63	-321	-122	-22	0	0	0
Dry Water Years (17%)	-31	0	74	2	120	15	-144	-122	0	0	0	0
Critical Water Years (34%)	0	0	4	-14	87	0	0	0	110	108	107	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-2a. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-2b. Stanislaus River Flow below Goodwin, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	275	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	404	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	706	307	528	799	1,045	769	944	1,046	434	307	464	438
Wet Water Years (22%)	907	660	890	1,619	2,155	1,783	1,744	2,301	782	289	941	1,096
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	441	346	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	247	435	208	460	400	365	374	390	249

Table F.2.2-19-2c. Stanislaus River Flow below Goodwin, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	15	161	-61	224	0	-17	47	0	0	621	127
20% Exceedance	-23	0	34	0	-9	-112	-17	-313	-577	-35	-14	-50
30% Exceedance	0	0	0	-32	30	-116	-112	0	0	0	0	0
40% Exceedance	0	0	0	-26	169	0	-633	0	0	0	0	0
50% Exceedance	-69	0	0	-26	157	0	-295	0	0	0	0	0
60% Exceedance	-58	0	0	-19	118	0	-9	-231	0	0	0	0
70% Exceedance	0	0	0	-13	72	0	0	0	0	0	0	0
80% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
90% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-11	1	33	-39	67	-33	-81	-32	-6	34	52	8
Wet Water Years (22%)	-5	3	46	-148	0	-119	22	30	-180	-11	72	30
Above Normal Water Years (12%)	0	3	13	-8	103	4	-105	0	0	0	0	8
Below Normal Water Years (15%)	-28	0	51	-9	30	-63	-321	-122	-22	0	0	0
Dry Water Years (17%)	-31	0	74	2	120	15	-144	-122	0	0	0	0
Critical Water Years (34%)	0	0	4	-14	88	0	0	0	110	108	107	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-3a. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-3b. Stanislaus River Flow below Goodwin, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	273	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	404	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	307	527	798	1,045	769	944	1,045	434	307	464	437
Wet Water Years (22%)	905	660	890	1,618	2,153	1,783	1,744	2,300	782	289	941	1,095
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,038	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	441	345	486	509	255	265	283	249
Critical Water Years (34%)	577	200	227	246	435	208	460	400	365	374	390	249

Table F.2.2-19-3c. Stanislaus River Flow below Goodwin, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	13	161	-61	224	0	-17	47	0	0	621	127
20% Exceedance	-23	0	34	0	-9	-112	-17	-313	-577	-35	-14	-50
30% Exceedance	0	0	0	-32	30	-117	-112	0	0	0	0	0
40% Exceedance	0	0	0	-26	169	0	-633	0	0	0	0	0
50% Exceedance	-69	0	0	-26	157	0	-295	0	0	0	0	0
60% Exceedance	-58	0	0	-19	118	0	-9	-231	0	0	0	0
70% Exceedance	0	0	0	-13	72	0	0	0	0	0	0	0
80% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
90% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-11	1	33	-40	66	-33	-81	-33	-6	34	52	7
Wet Water Years (22%)	-8	3	46	-149	-3	-119	21	29	-180	-11	72	30
Above Normal Water Years (12%)	0	3	12	-8	103	4	-105	0	0	0	0	8
Below Normal Water Years (15%)	-28	0	51	-11	29	-63	-321	-122	-22	0	0	0
Dry Water Years (17%)	-31	0	74	2	120	15	-144	-122	0	0	0	0
Critical Water Years (34%)	0	0	4	-15	88	0	0	0	110	108	107	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-4a. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-4b. Stanislaus River Flow below Goodwin, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	249	1,167	2,443	2,801	2,350	1,537	1,865	940	300	823	1,479
20% Exceedance	774	200	241	811	1,565	1,233	1,537	1,242	363	265	283	250
30% Exceedance	774	200	200	200	944	478	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	420	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	307	527	806	1,048	782	944	1,047	422	295	452	438
Wet Water Years (22%)	906	659	889	1,619	2,155	1,784	1,744	2,307	782	289	941	1,097
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,253	805	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	317	447	351	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	246	434	208	460	400	329	338	355	249

Table F.2.2-19-4c. Stanislaus River Flow below Goodwin, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-10	162	-61	224	0	-17	47	0	0	493	127
20% Exceedance	-23	0	34	58	-9	-95	-17	-313	-577	-35	-17	-50
30% Exceedance	0	0	0	-32	69	-86	-112	0	0	0	0	0
40% Exceedance	0	0	0	-26	184	0	-633	0	0	0	0	0
50% Exceedance	-69	0	0	-26	157	0	-295	0	0	0	0	0
60% Exceedance	-58	0	0	-19	118	0	-9	-231	0	0	0	0
70% Exceedance	0	0	0	-13	72	0	0	0	0	0	0	0
80% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
90% Exceedance	0	0	0	-13	79	0	0	0	0	0	0	0
Full Simulation Period Average ^a	-11	1	33	-32	70	-20	-81	-31	-18	22	40	8
Wet Water Years (22%)	-6	2	45	-148	0	-118	21	36	-180	-11	72	31
Above Normal Water Years (12%)	0	3	12	-8	103	4	-105	0	0	0	0	8
Below Normal Water Years (15%)	-28	0	51	-9	45	16	-321	-122	-22	0	0	0
Dry Water Years (17%)	-31	0	75	44	126	20	-144	-122	0	0	0	0
Critical Water Years (34%)	0	0	4	-14	87	0	0	0	73	71	72	0

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-5a. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-5b. Stanislaus River Flow below Goodwin, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,001	833	1,670	2,982	3,724	2,812	1,408	2,343	633	372	2,163	1,693
20% Exceedance	825	454	927	1,685	2,466	1,423	1,326	1,159	571	332	261	1,507
30% Exceedance	699	284	435	895	1,874	794	1,296	933	376	296	222	253
40% Exceedance	680	173	197	487	1,512	351	1,192	881	282	267	201	186
50% Exceedance	656	165	191	233	929	165	608	455	137	219	188	173
60% Exceedance	538	157	185	181	489	134	329	355	112	156	170	162
70% Exceedance	507	151	181	169	213	117	298	196	91	124	161	150
80% Exceedance	484	147	179	153	196	81	276	156	76	37	138	133
90% Exceedance	475	142	167	140	167	51	259	131	55	21	133	109
Full Simulation Period Average ^a	695	439	758	1,076	1,565	851	856	928	283	206	528	551
Wet Water Years (22%)	966	827	1,045	2,442	3,447	2,161	1,638	2,576	689	33	1,731	1,503
Above Normal Water Years (12%)	871	425	1,299	1,575	2,102	1,344	1,276	895	78	136	286	684
Below Normal Water Years (15%)	762	418	680	1,250	1,853	765	1,141	919	72	147	204	415
Dry Water Years (17%)	565	524	838	440	749	343	448	375	78	296	157	163
Critical Water Years (34%)	482	152	349	258	438	123	280	153	288	323	163	142

Table F.2.2-19-5c. Stanislaus River Flow below Goodwin, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	204	574	664	478	1,146	462	-145	525	-307	72	1,833	341
20% Exceedance	28	254	720	932	892	95	-228	-395	-369	32	-39	1,207
30% Exceedance	-76	84	235	663	999	230	-257	-309	12	31	-61	3
40% Exceedance	-94	-27	-3	261	1,276	151	-208	-361	-81	2	-82	-64
50% Exceedance	-49	-35	-9	7	700	-35	-159	-175	-118	-46	-95	-76
60% Exceedance	-97	-43	-15	-39	268	-66	-140	-275	-143	-110	-113	-87
70% Exceedance	-70	-49	-19	-44	-8	-83	-162	-204	-165	-141	-122	-99
80% Exceedance	-94	-53	-21	-60	-18	-119	-184	-244	-180	-228	-145	-116
90% Exceedance	-102	-58	-33	-73	-47	-149	-201	-269	-200	-244	-150	-140
Full Simulation Period Average ^a	-21	133	264	238	587	50	-169	-150	-157	-67	116	121
Wet Water Years (22%)	54	170	201	675	1,292	259	-84	306	-272	-267	862	438
Above Normal Water Years (12%)	97	185	634	265	847	193	-211	-347	-286	-129	3	424
Below Normal Water Years (15%)	-12	218	322	200	645	-24	-215	-323	-291	-118	-79	165
Dry Water Years (17%)	-70	324	282	167	429	12	-182	-255	-178	31	-126	-86
Critical Water Years (34%)	-95	-48	125	-2	92	-85	-181	-247	33	57	-120	-107

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-6a. Stanislaus River Flow below Goodwin, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	298	946	2,879	3,860	4,232	3,881	3,698	4,915	1,577	429	528	411
20% Exceedance	186	503	1,378	2,355	2,831	2,656	2,826	3,309	669	300	439	319
30% Exceedance	125	401	1,075	1,765	2,288	2,199	2,240	2,459	310	219	379	225
40% Exceedance	88	333	793	1,317	1,811	1,719	1,782	1,795	217	185	285	177
50% Exceedance	55	252	545	1,013	1,558	1,397	1,363	910	168	139	227	116
60% Exceedance	44	211	455	834	1,242	1,109	837	249	96	65	183	79
70% Exceedance	24	175	361	521	1,035	851	479	109	8	30	142	55
80% Exceedance	13	127	273	361	596	532	184	23	0	1	18	34
90% Exceedance	6	41	226	242	456	140	22	7	0	0	8	12
Full Simulation Period Average ^a	127	499	1,144	1,646	2,065	1,798	1,646	1,695	574	171	255	174
Wet Water Years (22%)	227	758	1,090	3,811	3,943	3,595	3,494	4,333	1,968	97	41	67
Above Normal Water Years (12%)	121	468	1,502	1,905	2,474	2,441	2,183	2,089	360	68	242	130
Below Normal Water Years (15%)	129	529	997	1,881	2,795	1,853	2,052	2,024	118	112	272	132
Dry Water Years (17%)	122	805	1,742	868	1,265	1,463	1,201	737	96	269	399	231
Critical Water Years (34%)	65	166	796	439	785	551	303	182	187	233	318	250

Table F.2.2-19-6b. Stanislaus River Flow below Goodwin, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	249	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	396	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	306	527	799	1,045	769	944	1,046	434	307	464	438
Wet Water Years (22%)	906	657	889	1,619	2,155	1,783	1,743	2,301	782	289	941	1,096
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	440	345	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	246	434	208	460	400	365	374	390	249

Table F.2.2-19-6c. Stanislaus River Flow below Goodwin, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	499	-697	-1,712	-1,416	-1,431	-1,531	-2,161	-3,050	-637	-129	423	1,068
20% Exceedance	589	-303	-1,138	-1,601	-1,265	-1,440	-1,289	-2,067	-306	-35	-153	-69
30% Exceedance	649	-201	-875	-1,565	-1,382	-1,751	-799	-1,217	53	46	-96	25
40% Exceedance	686	-133	-593	-1,117	-1,415	-1,519	-1,016	-553	146	80	-2	73
50% Exceedance	581	-52	-345	-813	-1,172	-1,197	-891	-280	88	126	56	132
60% Exceedance	534	-11	-255	-634	-902	-909	-377	151	160	200	100	170
70% Exceedance	553	25	-161	-321	-742	-651	-19	291	247	235	141	194
80% Exceedance	564	73	-73	-161	-303	-332	276	377	255	264	265	215
90% Exceedance	572	159	-26	-42	-163	60	438	393	255	265	275	237
Full Simulation Period Average ^a	578	-192	-616	-847	-1,020	-1,029	-702	-649	-140	136	209	263
Wet Water Years (22%)	679	-101	-201	-2,192	-1,788	-1,812	-1,751	-2,032	-1,187	192	900	1,029
Above Normal Water Years (12%)	653	-224	-825	-603	-1,117	-1,287	-800	-847	3	197	41	138
Below Normal Water Years (15%)	617	-329	-588	-841	-1,557	-1,127	-1,017	-904	223	153	11	118
Dry Water Years (17%)	483	-605	-1,111	-593	-824	-1,118	-715	-229	159	-4	-116	17
Critical Water Years (34%)	513	34	-569	-192	-351	-344	157	218	178	141	72	-1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-7a. Stanislaus River Flow below Goodwin, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	298	946	2,879	3,860	4,232	3,881	3,698	4,915	1,577	429	528	411
20% Exceedance	186	503	1,378	2,355	2,831	2,656	2,826	3,309	669	300	439	319
30% Exceedance	125	401	1,075	1,765	2,288	2,199	2,240	2,459	310	219	379	225
40% Exceedance	88	333	793	1,317	1,811	1,719	1,782	1,795	217	185	285	177
50% Exceedance	55	252	545	1,013	1,558	1,397	1,363	910	168	139	227	116
60% Exceedance	44	211	455	834	1,242	1,109	837	249	96	65	183	79
70% Exceedance	24	175	361	521	1,035	851	479	109	8	30	142	55
80% Exceedance	13	127	273	361	596	532	184	23	0	1	18	34
90% Exceedance	6	41	226	242	456	140	22	7	0	0	8	12
Full Simulation Period Average ^a	127	499	1,144	1,646	2,065	1,798	1,646	1,695	574	171	255	174
Wet Water Years (22%)	227	758	1,090	3,811	3,943	3,595	3,494	4,333	1,968	97	41	67
Above Normal Water Years (12%)	121	468	1,502	1,905	2,474	2,441	2,183	2,089	360	68	242	130
Below Normal Water Years (15%)	129	529	997	1,881	2,795	1,853	2,052	2,024	118	112	272	132
Dry Water Years (17%)	122	805	1,742	868	1,265	1,463	1,201	737	96	269	399	231
Critical Water Years (34%)	65	166	796	439	785	551	303	182	187	233	318	250

Table F.2.2-19-7b. Stanislaus River Flow below Goodwin, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	275	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	404	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	706	307	528	799	1,045	769	944	1,046	434	307	464	438
Wet Water Years (22%)	907	660	890	1,619	2,155	1,783	1,744	2,301	782	289	941	1,096
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	441	346	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	247	435	208	460	400	365	374	390	249

Table F.2.2-19-7c. Stanislaus River Flow below Goodwin, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	499	-671	-1,712	-1,416	-1,431	-1,531	-2,161	-3,050	-637	-129	423	1,068
20% Exceedance	589	-303	-1,138	-1,601	-1,265	-1,440	-1,289	-2,067	-306	-35	-153	-69
30% Exceedance	649	-201	-875	-1,565	-1,382	-1,751	-799	-1,217	53	46	-96	25
40% Exceedance	686	-133	-593	-1,117	-1,407	-1,519	-1,016	-553	146	80	-2	73
50% Exceedance	581	-52	-345	-813	-1,172	-1,197	-891	-280	88	126	56	132
60% Exceedance	534	-11	-255	-634	-902	-909	-377	151	160	200	100	170
70% Exceedance	553	25	-161	-321	-742	-651	-19	291	247	235	141	194
80% Exceedance	564	73	-73	-161	-303	-332	276	377	255	264	265	215
90% Exceedance	572	159	-26	-42	-163	60	438	393	255	265	275	237
Full Simulation Period Average ^a	578	-192	-616	-847	-1,020	-1,029	-702	-649	-140	136	209	263
Wet Water Years (22%)	680	-98	-200	-2,192	-1,788	-1,812	-1,750	-2,032	-1,187	192	900	1,029
Above Normal Water Years (12%)	653	-224	-825	-603	-1,117	-1,287	-800	-847	3	197	41	138
Below Normal Water Years (15%)	617	-329	-588	-841	-1,557	-1,127	-1,017	-904	223	153	11	118
Dry Water Years (17%)	483	-605	-1,111	-593	-824	-1,118	-715	-229	159	-4	-116	17
Critical Water Years (34%)	513	34	-569	-192	-350	-344	157	218	178	141	72	-1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-8a. Stanislaus River Flow below Goodwin, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	298	946	2,879	3,860	4,232	3,881	3,698	4,915	1,577	429	528	411
20% Exceedance	186	503	1,378	2,355	2,831	2,656	2,826	3,309	669	300	439	319
30% Exceedance	125	401	1,075	1,765	2,288	2,199	2,240	2,459	310	219	379	225
40% Exceedance	88	333	793	1,317	1,811	1,719	1,782	1,795	217	185	285	177
50% Exceedance	55	252	545	1,013	1,558	1,397	1,363	910	168	139	227	116
60% Exceedance	44	211	455	834	1,242	1,109	837	249	96	65	183	79
70% Exceedance	24	175	361	521	1,035	851	479	109	8	30	142	55
80% Exceedance	13	127	273	361	596	532	184	23	0	1	18	34
90% Exceedance	6	41	226	242	456	140	22	7	0	0	8	12
Full Simulation Period Average ^a	127	499	1,144	1,646	2,065	1,798	1,646	1,695	574	171	255	174
Wet Water Years (22%)	227	758	1,090	3,811	3,943	3,595	3,494	4,333	1,968	97	41	67
Above Normal Water Years (12%)	121	468	1,502	1,905	2,474	2,441	2,183	2,089	360	68	242	130
Below Normal Water Years (15%)	129	529	997	1,881	2,795	1,853	2,052	2,024	118	112	272	132
Dry Water Years (17%)	122	805	1,742	868	1,265	1,463	1,201	737	96	269	399	231
Critical Water Years (34%)	65	166	796	439	785	551	303	182	187	233	318	250

Table F.2.2-19-8b. Stanislaus River Flow below Goodwin, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	273	1,167	2,443	2,801	2,350	1,537	1,865	940	300	951	1,479
20% Exceedance	774	200	241	753	1,565	1,217	1,537	1,242	363	265	286	250
30% Exceedance	774	200	200	200	905	447	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	404	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	307	527	798	1,045	769	944	1,045	434	307	464	437
Wet Water Years (22%)	905	660	890	1,618	2,153	1,783	1,744	2,300	782	289	941	1,095
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,038	1,238	726	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	275	441	345	486	509	255	265	283	249
Critical Water Years (34%)	577	200	227	246	435	208	460	400	365	374	390	249

Table F.2.2-19-8c. Stanislaus River Flow below Goodwin, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	499	-674	-1,712	-1,416	-1,432	-1,531	-2,161	-3,050	-637	-129	423	1,068
20% Exceedance	589	-303	-1,138	-1,601	-1,266	-1,440	-1,289	-2,067	-306	-35	-153	-69
30% Exceedance	649	-201	-875	-1,565	-1,382	-1,752	-799	-1,217	53	46	-96	25
40% Exceedance	686	-133	-593	-1,117	-1,407	-1,519	-1,016	-553	146	80	-2	73
50% Exceedance	581	-52	-345	-813	-1,172	-1,197	-891	-280	88	126	56	132
60% Exceedance	534	-11	-255	-634	-902	-909	-377	151	160	200	100	170
70% Exceedance	553	25	-161	-321	-742	-651	-19	291	247	235	141	194
80% Exceedance	564	73	-73	-161	-303	-332	276	377	255	264	265	215
90% Exceedance	572	159	-26	-42	-163	60	438	393	255	265	275	237
Full Simulation Period Average ^a	578	-192	-616	-847	-1,021	-1,029	-702	-649	-140	136	209	263
Wet Water Years (22%)	677	-98	-200	-2,193	-1,790	-1,812	-1,750	-2,033	-1,187	192	900	1,029
Above Normal Water Years (12%)	653	-224	-825	-603	-1,117	-1,288	-800	-847	3	197	41	138
Below Normal Water Years (15%)	617	-329	-588	-843	-1,557	-1,127	-1,017	-904	223	153	11	118
Dry Water Years (17%)	483	-605	-1,111	-593	-824	-1,118	-715	-229	159	-4	-116	17
Critical Water Years (34%)	513	34	-569	-192	-350	-344	157	218	178	141	72	-1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-9a. Stanislaus River Flow below Goodwin, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	298	946	2,879	3,860	4,232	3,881	3,698	4,915	1,577	429	528	411
20% Exceedance	186	503	1,378	2,355	2,831	2,656	2,826	3,309	669	300	439	319
30% Exceedance	125	401	1,075	1,765	2,288	2,199	2,240	2,459	310	219	379	225
40% Exceedance	88	333	793	1,317	1,811	1,719	1,782	1,795	217	185	285	177
50% Exceedance	55	252	545	1,013	1,558	1,397	1,363	910	168	139	227	116
60% Exceedance	44	211	455	834	1,242	1,109	837	249	96	65	183	79
70% Exceedance	24	175	361	521	1,035	851	479	109	8	30	142	55
80% Exceedance	13	127	273	361	596	532	184	23	0	1	18	34
90% Exceedance	6	41	226	242	456	140	22	7	0	0	8	12
Full Simulation Period Average ^a	127	499	1,144	1,646	2,065	1,798	1,646	1,695	574	171	255	174
Wet Water Years (22%)	227	758	1,090	3,811	3,943	3,595	3,494	4,333	1,968	97	41	67
Above Normal Water Years (12%)	121	468	1,502	1,905	2,474	2,441	2,183	2,089	360	68	242	130
Below Normal Water Years (15%)	129	529	997	1,881	2,795	1,853	2,052	2,024	118	112	272	132
Dry Water Years (17%)	122	805	1,742	868	1,265	1,463	1,201	737	96	269	399	231
Critical Water Years (34%)	65	166	796	439	785	551	303	182	187	233	318	250

Table F.2.2-19-9b. Stanislaus River Flow below Goodwin, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	249	1,167	2,443	2,801	2,350	1,537	1,865	940	300	823	1,479
20% Exceedance	774	200	241	811	1,565	1,233	1,537	1,242	363	265	283	250
30% Exceedance	774	200	200	200	944	478	1,441	1,242	363	265	283	250
40% Exceedance	774	200	200	200	420	200	767	1,242	363	265	283	250
50% Exceedance	636	200	200	200	386	200	472	631	255	265	283	249
60% Exceedance	577	200	200	200	339	200	460	400	255	265	283	249
70% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
80% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
90% Exceedance	577	200	200	200	293	200	460	400	255	265	283	249
Full Simulation Period Average ^a	705	307	527	806	1,048	782	944	1,047	422	295	452	438
Wet Water Years (22%)	906	659	889	1,619	2,155	1,784	1,744	2,307	782	289	941	1,097
Above Normal Water Years (12%)	774	244	677	1,302	1,357	1,154	1,383	1,242	363	265	283	268
Below Normal Water Years (15%)	746	200	409	1,041	1,253	805	1,035	1,120	342	265	283	250
Dry Water Years (17%)	605	200	631	317	447	351	486	509	255	265	283	249
Critical Water Years (34%)	577	200	228	246	434	208	460	400	329	338	355	249

Table F.2.2-19-9c. Stanislaus River Flow below Goodwin, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	499	-697	-1,712	-1,416	-1,431	-1,531	-2,161	-3,050	-637	-129	295	1,068
20% Exceedance	589	-303	-1,138	-1,543	-1,265	-1,423	-1,289	-2,067	-306	-35	-156	-69
30% Exceedance	649	-201	-875	-1,565	-1,344	-1,721	-799	-1,217	53	46	-96	25
40% Exceedance	686	-133	-593	-1,117	-1,392	-1,519	-1,016	-553	146	80	-2	73
50% Exceedance	581	-52	-345	-813	-1,172	-1,197	-891	-280	88	126	56	132
60% Exceedance	534	-11	-255	-634	-902	-909	-377	151	160	200	100	170
70% Exceedance	553	25	-161	-321	-742	-651	-19	291	247	235	141	194
80% Exceedance	564	73	-73	-161	-303	-332	276	377	255	264	265	215
90% Exceedance	572	159	-26	-42	-163	60	438	393	255	265	275	237
Full Simulation Period Average ^a	578	-192	-616	-840	-1,017	-1,016	-702	-648	-152	124	197	263
Wet Water Years (22%)	679	-100	-200	-2,192	-1,788	-1,812	-1,750	-2,026	-1,187	192	900	1,031
Above Normal Water Years (12%)	653	-224	-825	-603	-1,117	-1,287	-800	-847	3	197	41	138
Below Normal Water Years (15%)	617	-329	-588	-841	-1,542	-1,048	-1,017	-904	223	153	11	118
Dry Water Years (17%)	483	-605	-1,111	-551	-818	-1,113	-715	-229	159	-4	-116	17
Critical Water Years (34%)	513	34	-568	-192	-351	-344	157	218	141	105	37	-1

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-19-10a. Stanislaus River Flow below Goodwin, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	298	946	2,879	3,860	4,232	3,881	3,698	4,915	1,577	429	528	411
20% Exceedance	186	503	1,378	2,355	2,831	2,656	2,826	3,309	669	300	439	319
30% Exceedance	125	401	1,075	1,765	2,288	2,199	2,240	2,459	310	219	379	225
40% Exceedance	88	333	793	1,317	1,811	1,719	1,782	1,795	217	185	285	177
50% Exceedance	55	252	545	1,013	1,558	1,397	1,363	910	168	139	227	116
60% Exceedance	44	211	455	834	1,242	1,109	837	249	96	65	183	79
70% Exceedance	24	175	361	521	1,035	851	479	109	8	30	142	55
80% Exceedance	13	127	273	361	596	532	184	23	0	1	18	34
90% Exceedance	6	41	226	242	456	140	22	7	0	0	8	12
Full Simulation Period Average ^a	127	499	1,144	1,646	2,065	1,798	1,646	1,695	574	171	255	174
Wet Water Years (22%)	227	758	1,090	3,811	3,943	3,595	3,494	4,333	1,968	97	41	67
Above Normal Water Years (12%)	121	468	1,502	1,905	2,474	2,441	2,183	2,089	360	68	242	130
Below Normal Water Years (15%)	129	529	997	1,881	2,795	1,853	2,052	2,024	118	112	272	132
Dry Water Years (17%)	122	805	1,742	868	1,265	1,463	1,201	737	96	269	399	231
Critical Water Years (34%)	65	166	796	439	785	551	303	182	187	233	318	250

Table F.2.2-19-10b. Stanislaus River Flow below Goodwin, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	797	259	1,006	2,504	2,577	2,350	1,553	1,818	940	300	330	1,351
20% Exceedance	797	200	207	753	1,574	1,328	1,553	1,555	940	300	300	300
30% Exceedance	774	200	200	232	875	564	1,553	1,242	363	265	283	250
40% Exceedance	774	200	200	226	236	200	1,400	1,242	363	265	283	250
50% Exceedance	705	200	200	226	229	200	767	631	255	265	283	249
60% Exceedance	636	200	200	219	221	200	469	631	255	265	283	249
70% Exceedance	577	200	200	213	221	200	460	400	255	265	283	249
80% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
90% Exceedance	577	200	200	213	214	200	460	400	255	265	283	249
Full Simulation Period Average ^a	716	306	494	838	978	802	1,025	1,078	440	273	412	430
Wet Water Years (22%)	912	657	844	1,768	2,155	1,902	1,723	2,271	962	300	869	1,066
Above Normal Water Years (12%)	774	240	665	1,310	1,254	1,150	1,488	1,242	363	265	283	260
Below Normal Water Years (15%)	774	200	358	1,050	1,208	789	1,356	1,242	363	265	283	250
Dry Water Years (17%)	636	200	556	273	321	331	630	631	255	265	283	249
Critical Water Years (34%)	577	200	224	261	347	208	461	400	255	267	283	249

Table F.2.2-19-10c. Stanislaus River Flow below Goodwin, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	499	-687	-1,873	-1,356	-1,655	-1,531	-2,144	-3,097	-637	-129	-198	941
20% Exceedance	611	-303	-1,171	-1,601	-1,257	-1,328	-1,273	-1,755	271	0	-139	-19
30% Exceedance	649	-201	-875	-1,533	-1,413	-1,635	-687	-1,217	53	46	-96	25
40% Exceedance	686	-133	-593	-1,091	-1,576	-1,519	-382	-553	146	80	-2	73
50% Exceedance	650	-52	-345	-787	-1,329	-1,197	-597	-280	88	126	56	132
60% Exceedance	592	-11	-255	-615	-1,020	-909	-368	382	160	200	100	170
70% Exceedance	553	25	-161	-308	-814	-651	-19	291	247	235	141	194
80% Exceedance	564	73	-73	-148	-381	-332	276	377	255	264	265	215
90% Exceedance	572	159	-26	-29	-242	60	438	393	255	265	275	237
Full Simulation Period Average ^a	589	-193	-649	-807	-1,087	-997	-621	-617	-134	102	157	256
Wet Water Years (22%)	685	-101	-245	-2,043	-1,787	-1,693	-1,772	-2,062	-1,006	203	828	999
Above Normal Water Years (12%)	653	-228	-837	-596	-1,220	-1,291	-695	-847	3	197	41	130
Below Normal Water Years (15%)	645	-329	-640	-832	-1,586	-1,064	-696	-782	245	153	11	118
Dry Water Years (17%)	514	-605	-1,186	-595	-944	-1,133	-571	-106	159	-4	-116	17
Critical Water Years (34%)	513	34	-572	-178	-438	-344	157	218	68	34	-35	-1

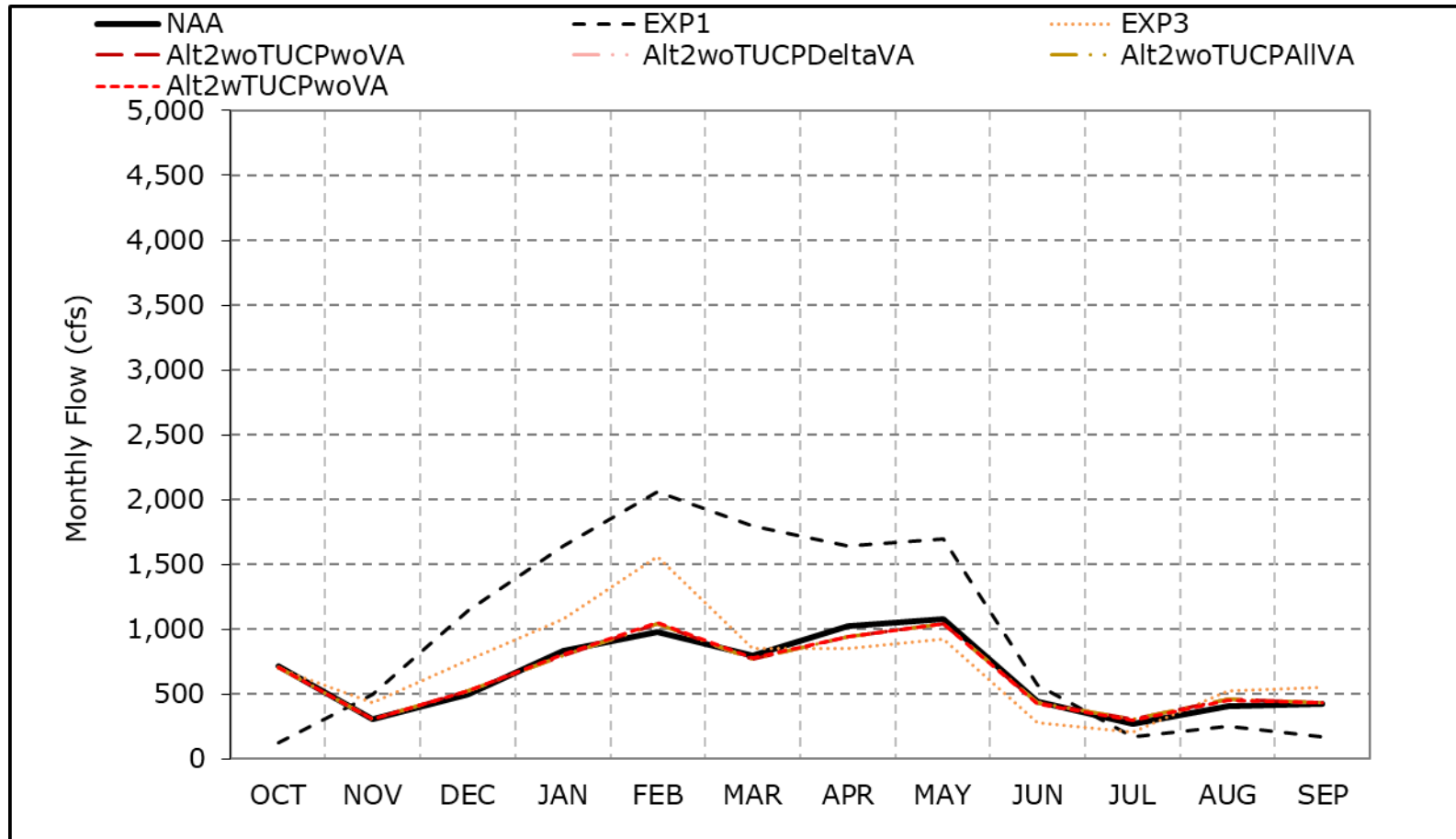
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-19-1. Stanislaus River Flow below Goodwin, Long-Term Average Flow

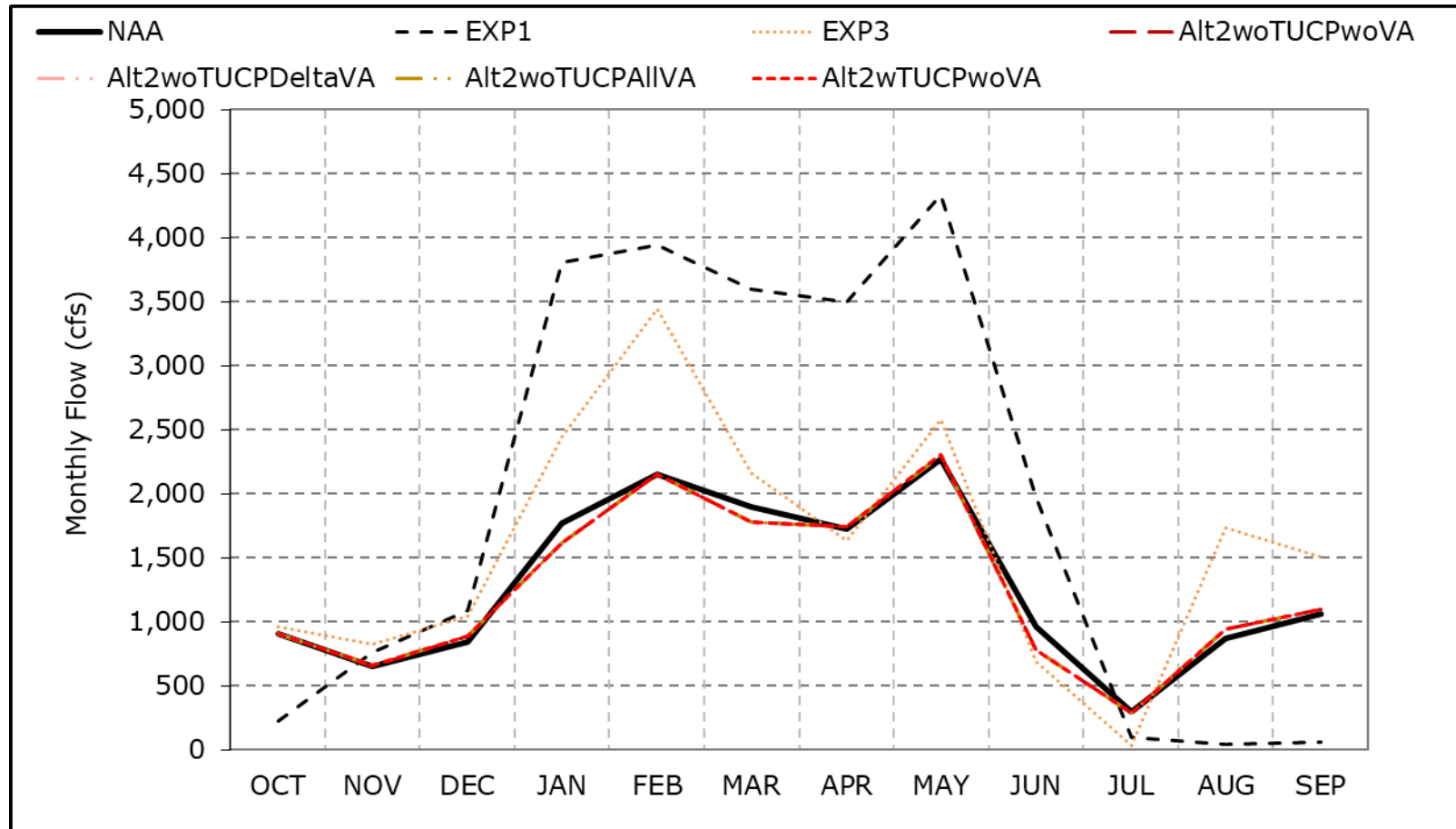


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-2. Stanislaus River Flow below Goodwin, Wet Year Average Flow

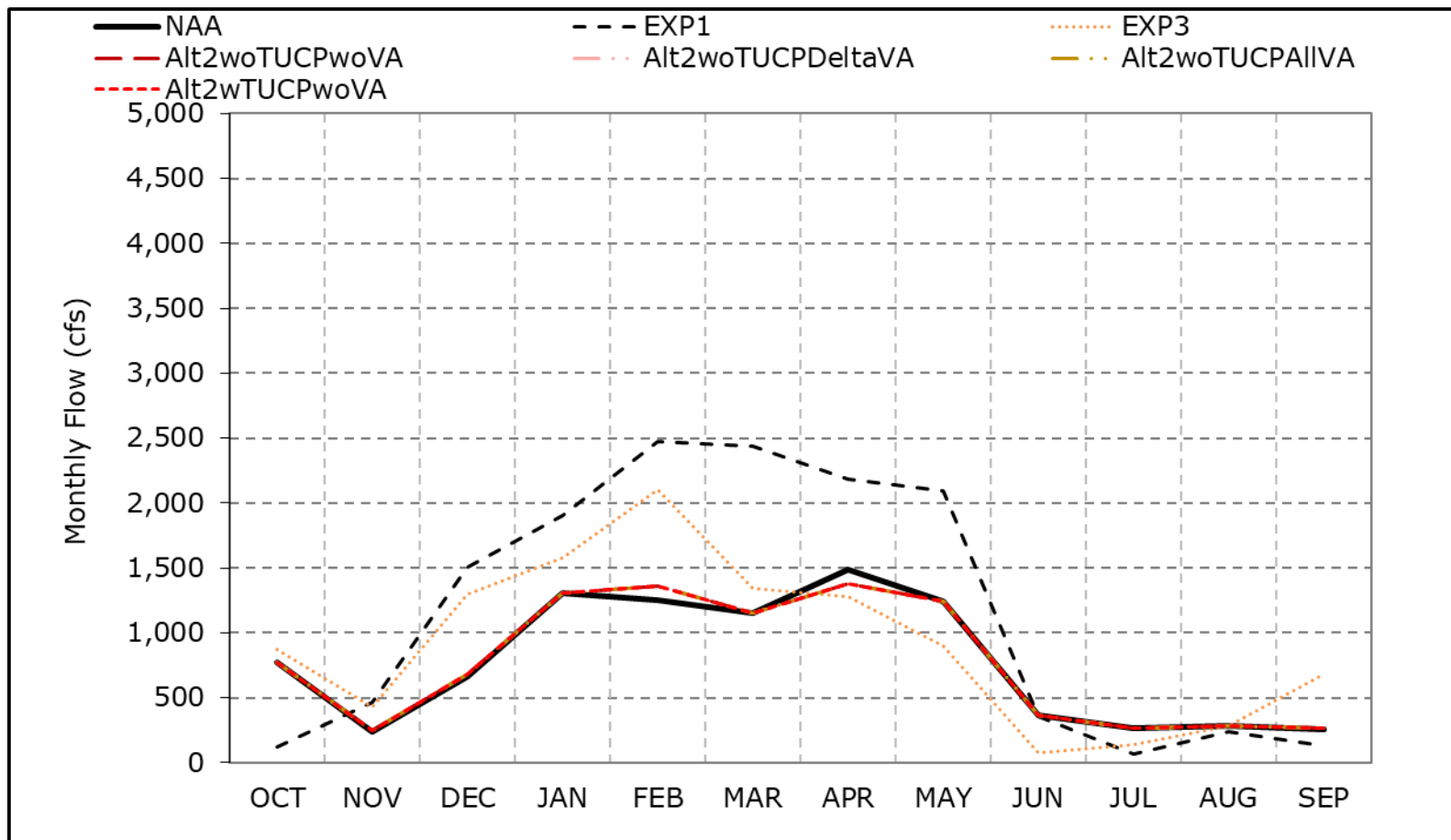


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-3. Stanislaus River Flow below Goodwin, Above Normal Year Average Flow

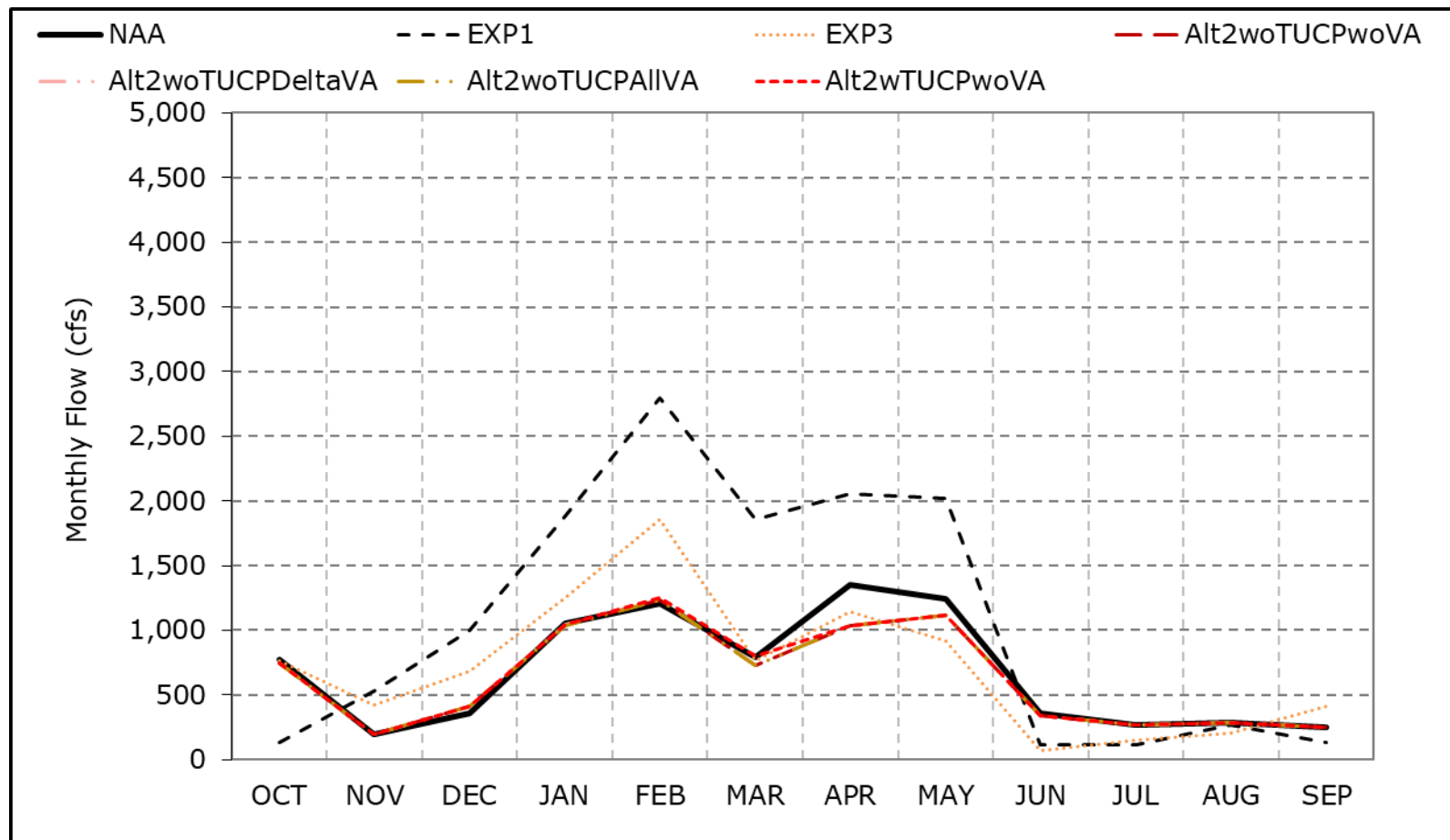


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-4. Stanislaus River Flow below Goodwin, Below Normal Year Average Flow

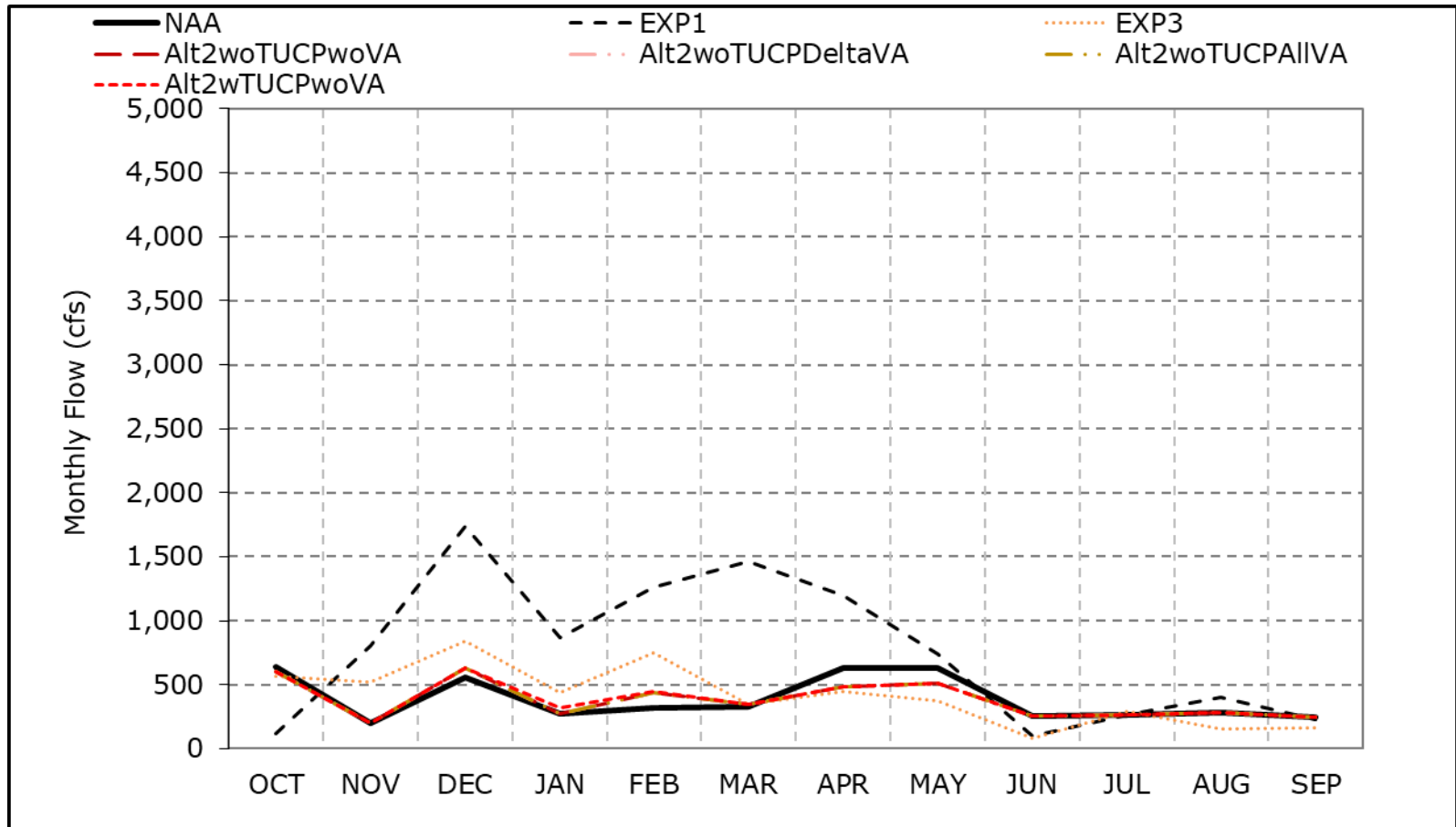


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-5. Stanislaus River Flow below Goodwin, Dry Year Average Flow

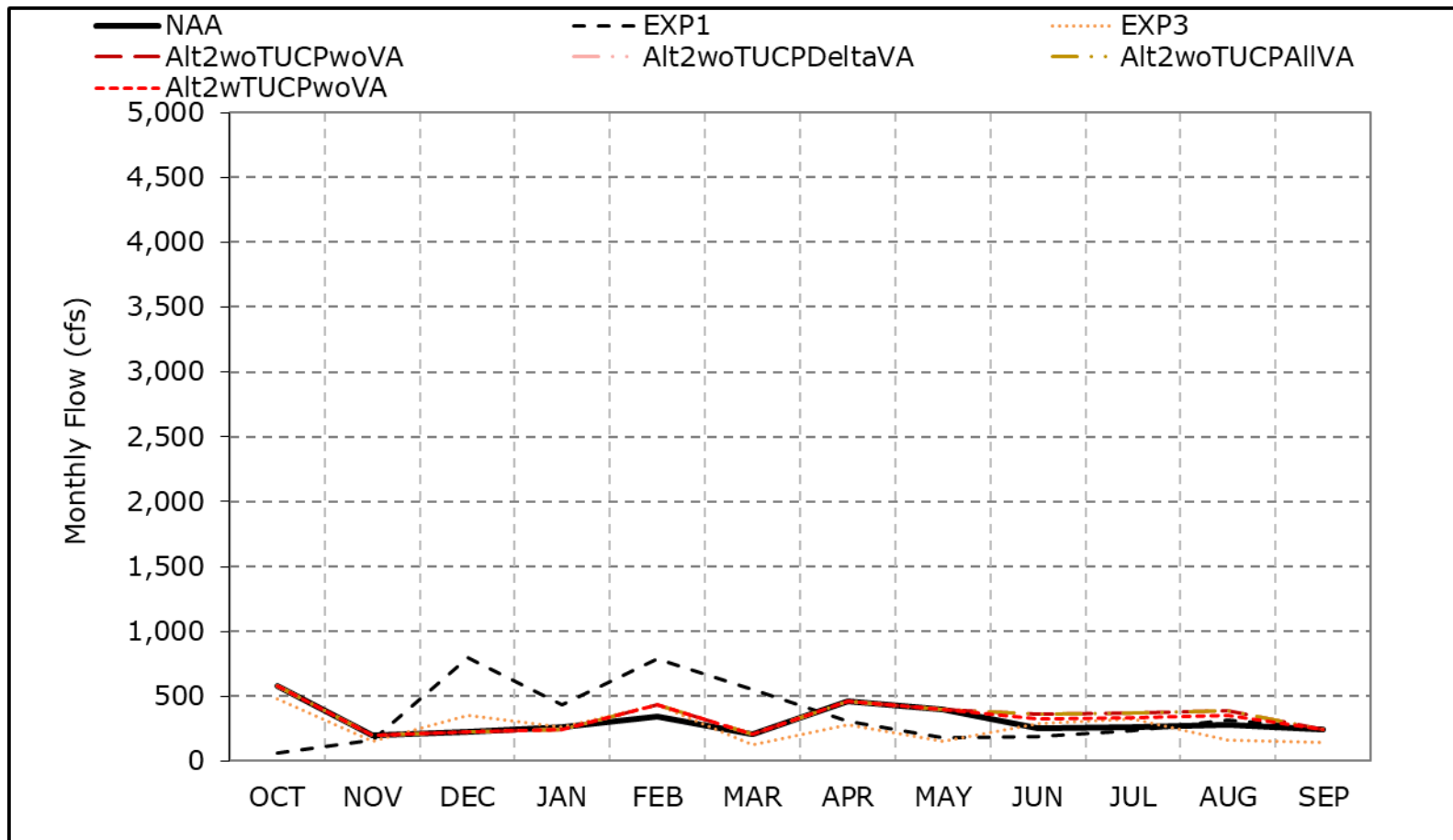


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-6. Stanislaus River Flow below Goodwin, Critical Year Average Flow

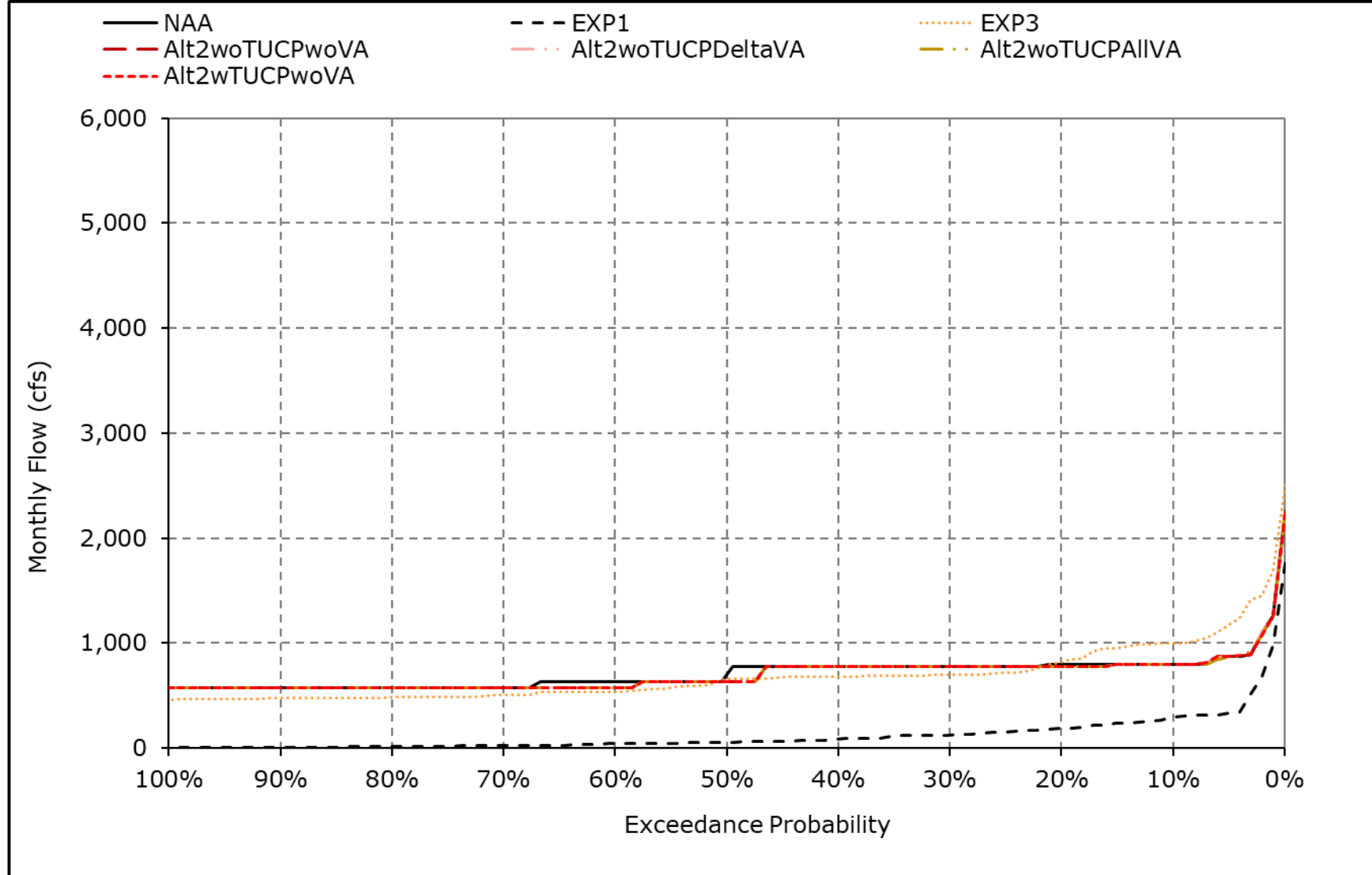


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

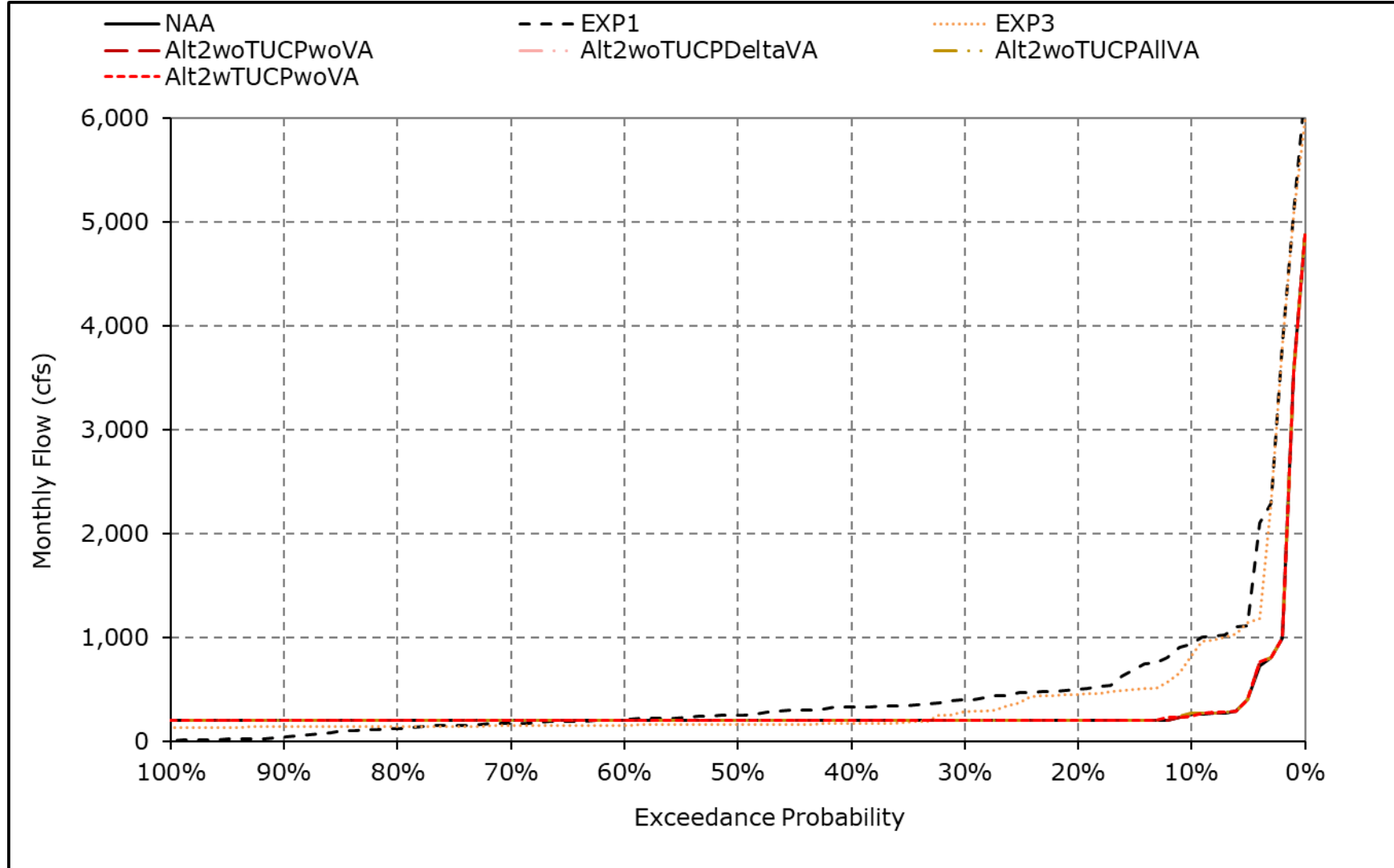
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-7. Stanislaus River Flow below Goodwin, October



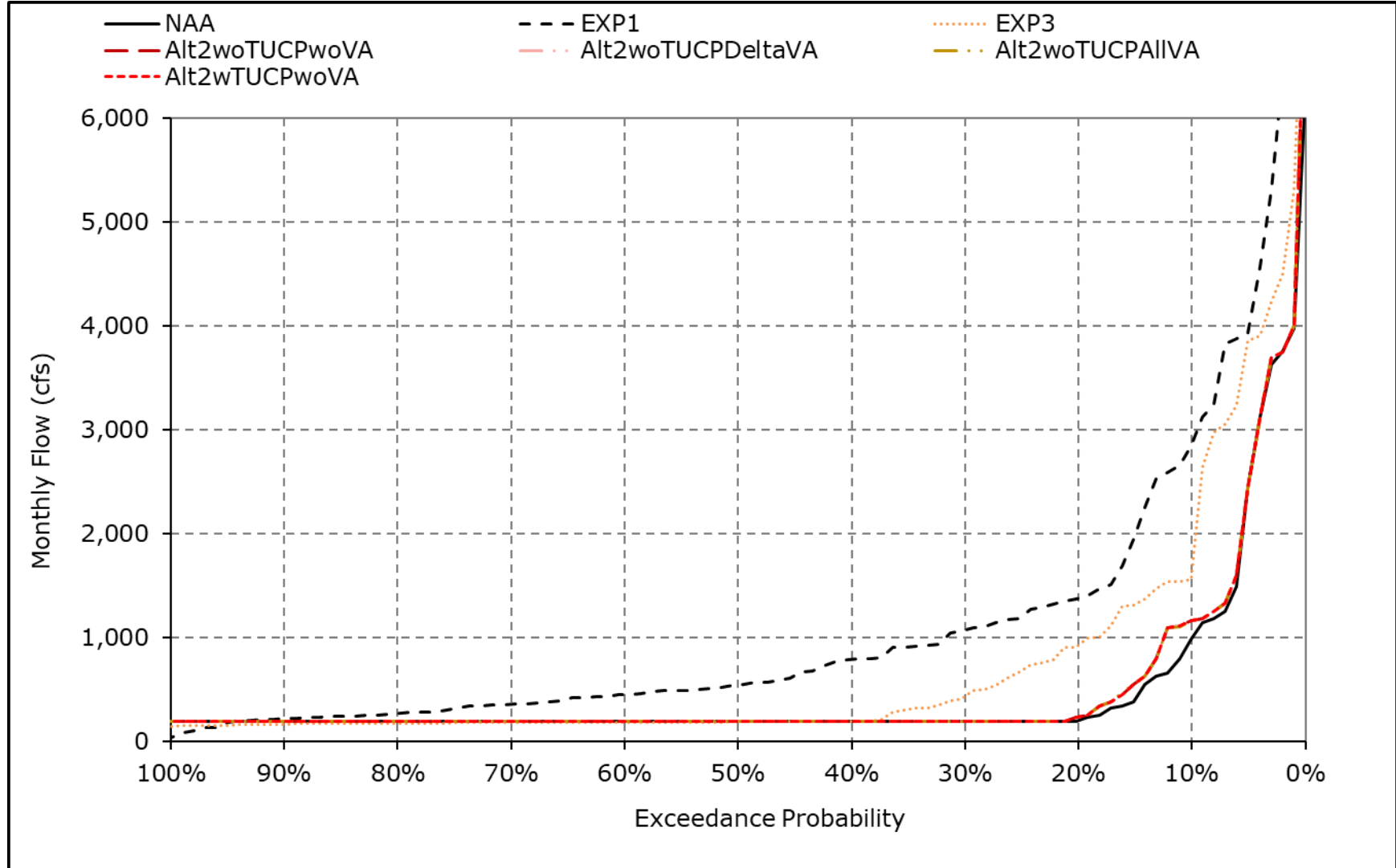
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-8. Stanislaus River Flow below Goodwin, November



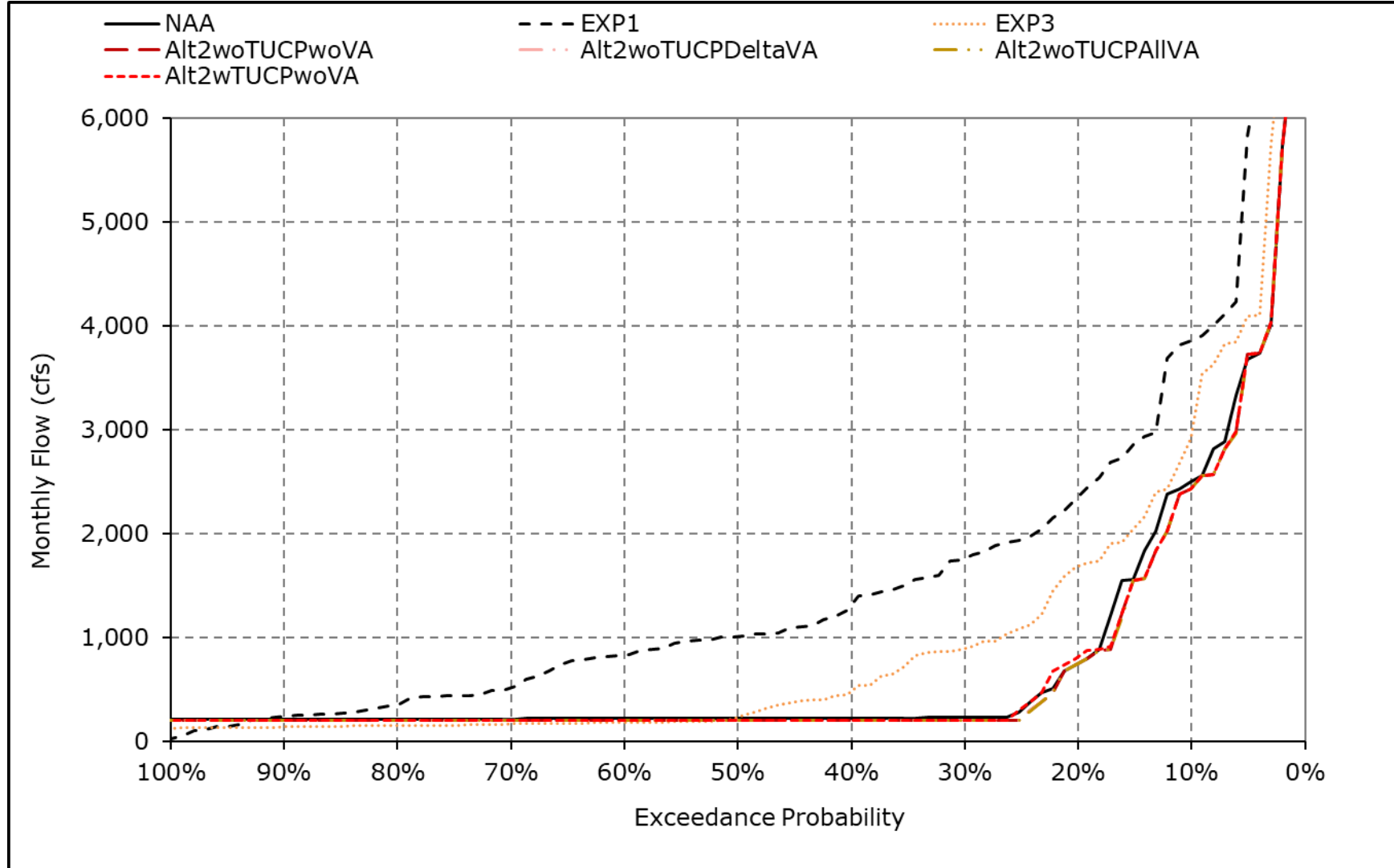
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-9. Stanislaus River Flow below Goodwin, December



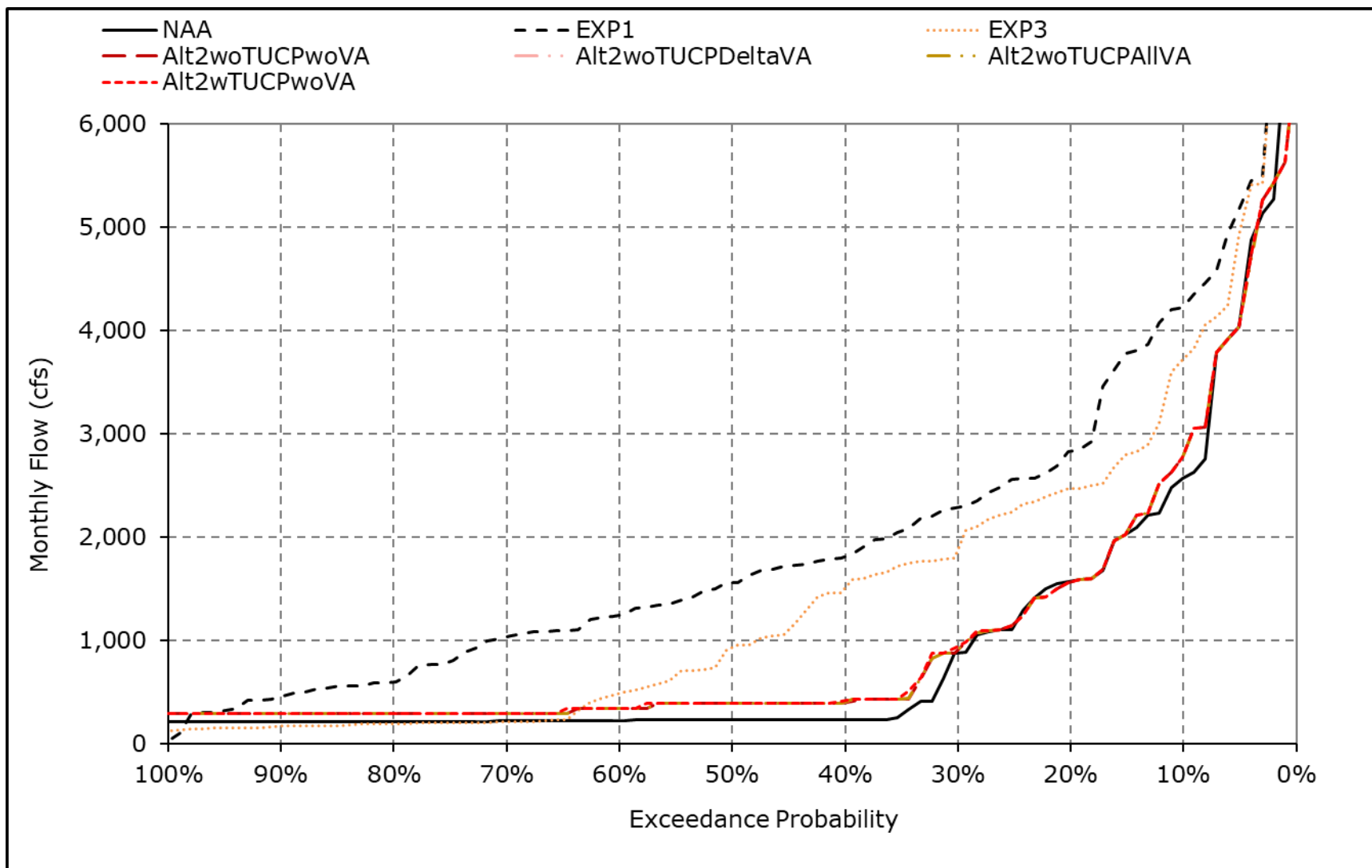
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-10. Stanislaus River Flow below Goodwin, January



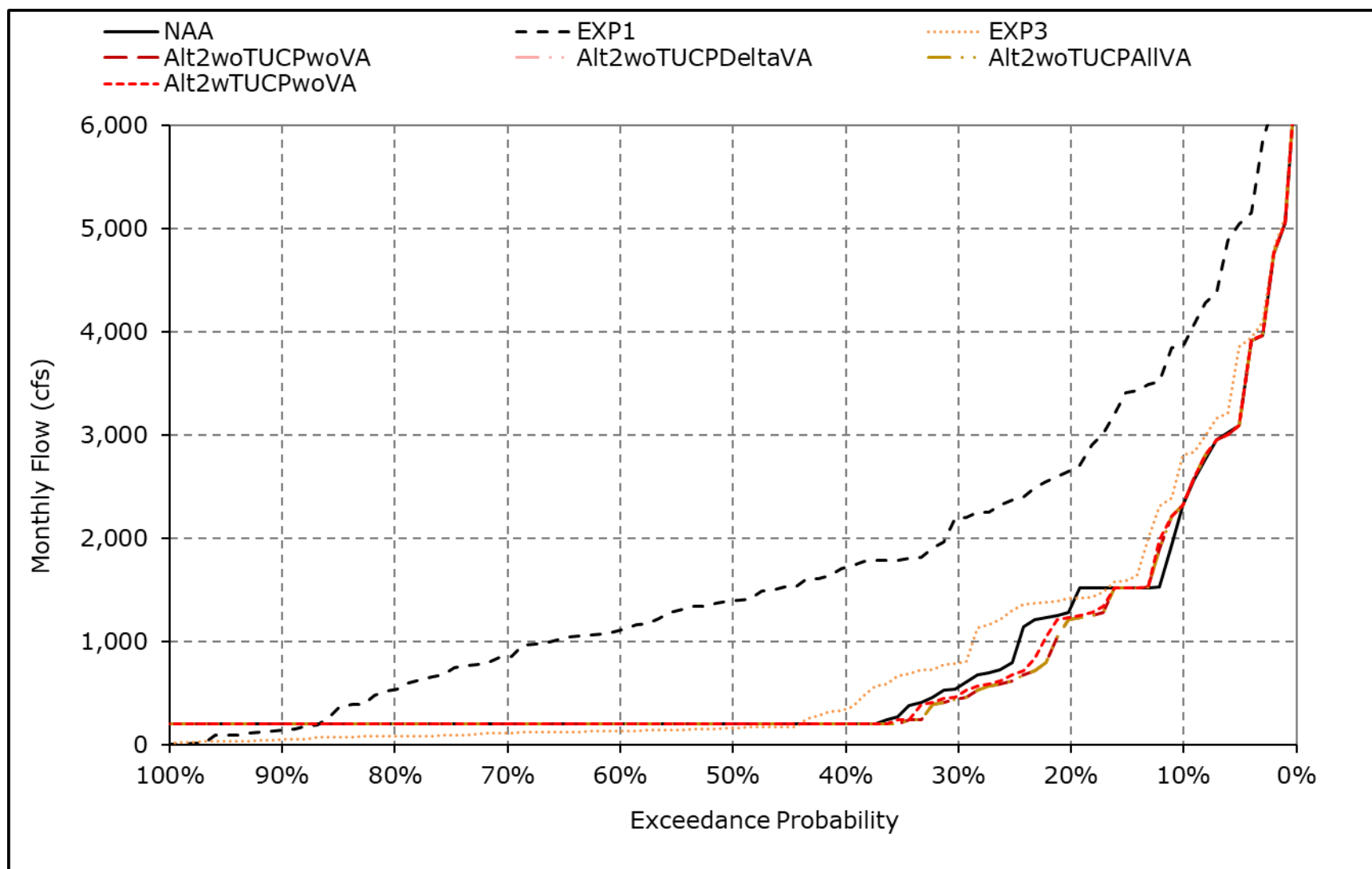
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-11. Stanislaus River Flow below Goodwin, February



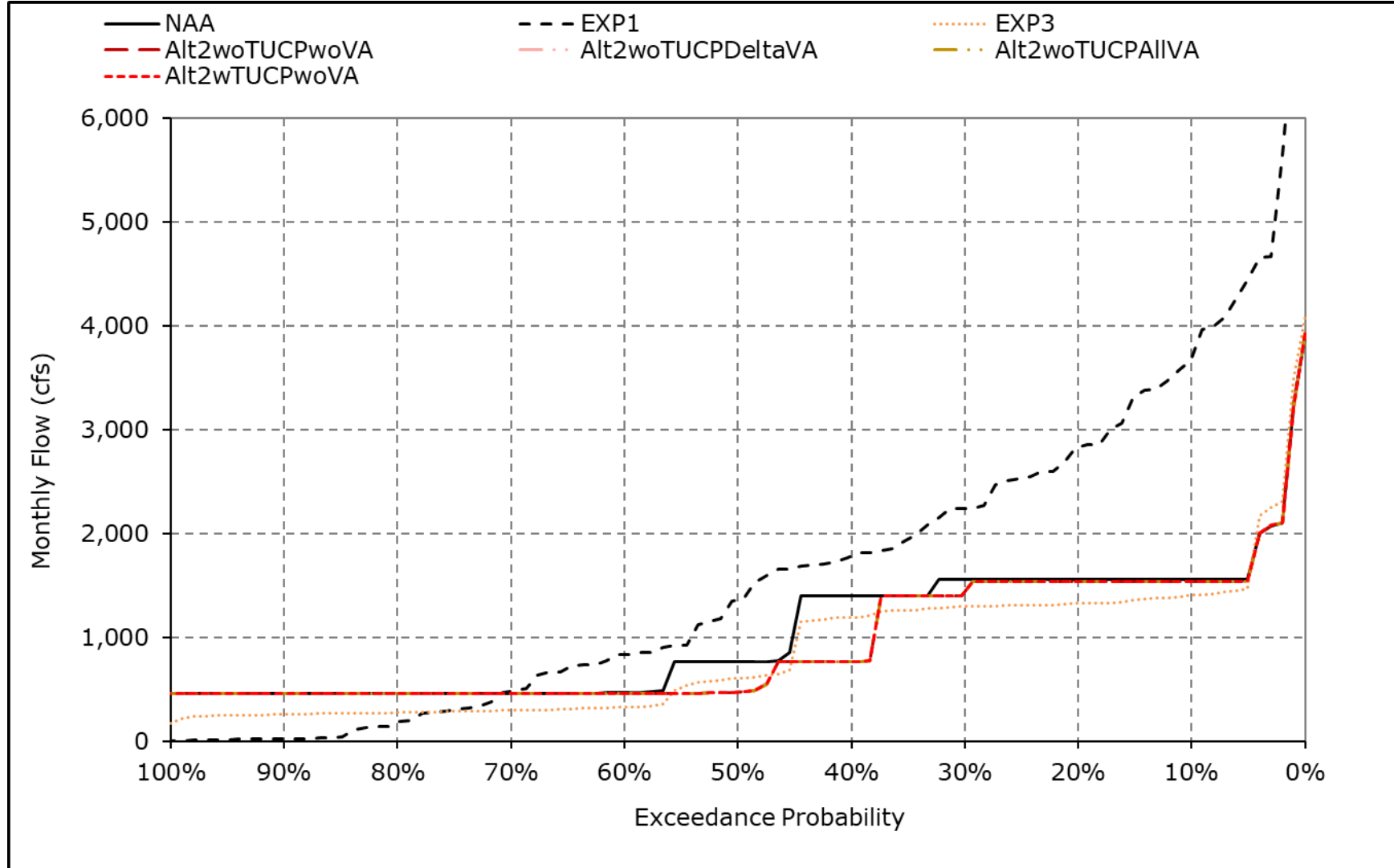
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-12. Stanislaus River Flow below Goodwin, March



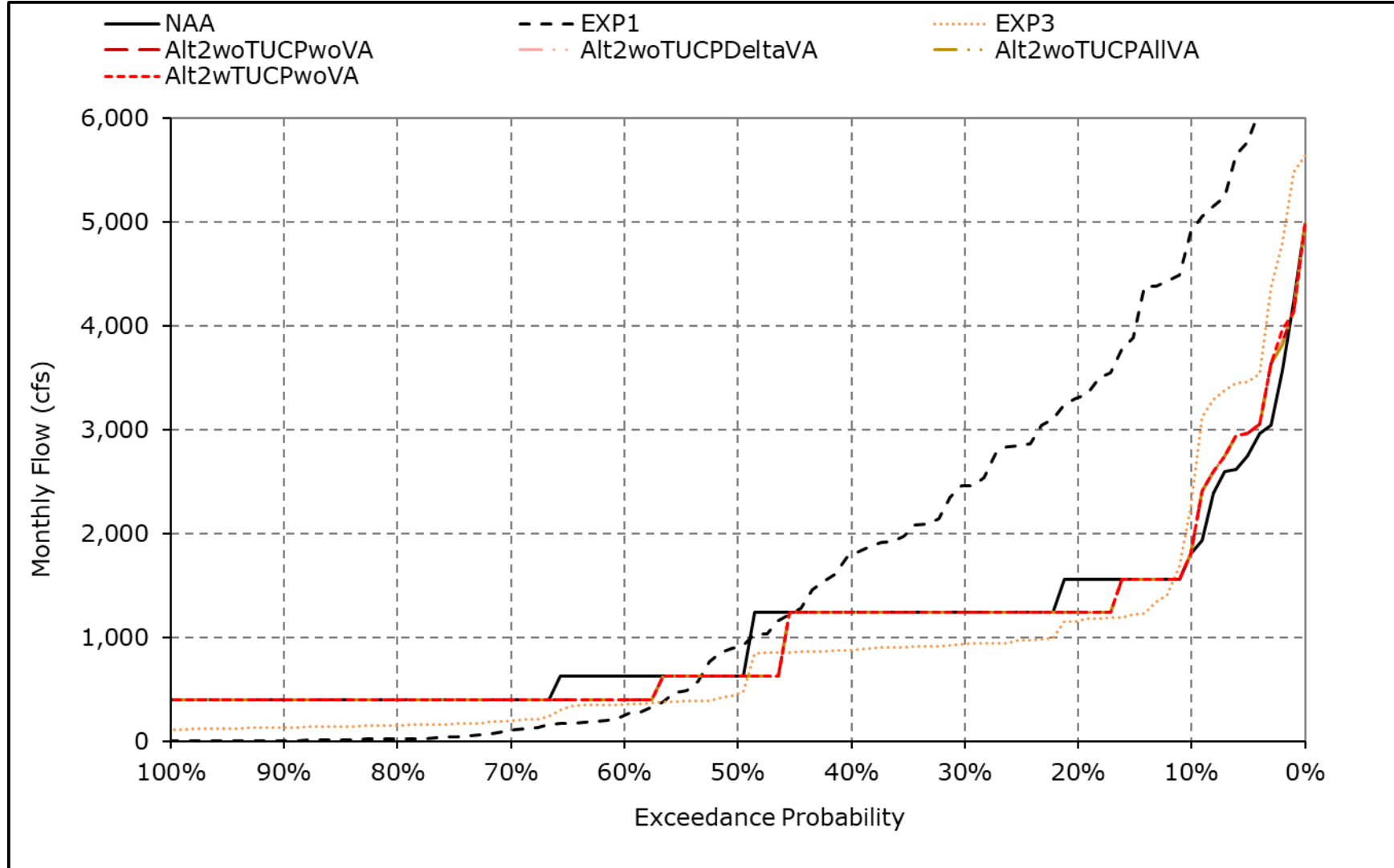
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-13. Stanislaus River Flow below Goodwin, April



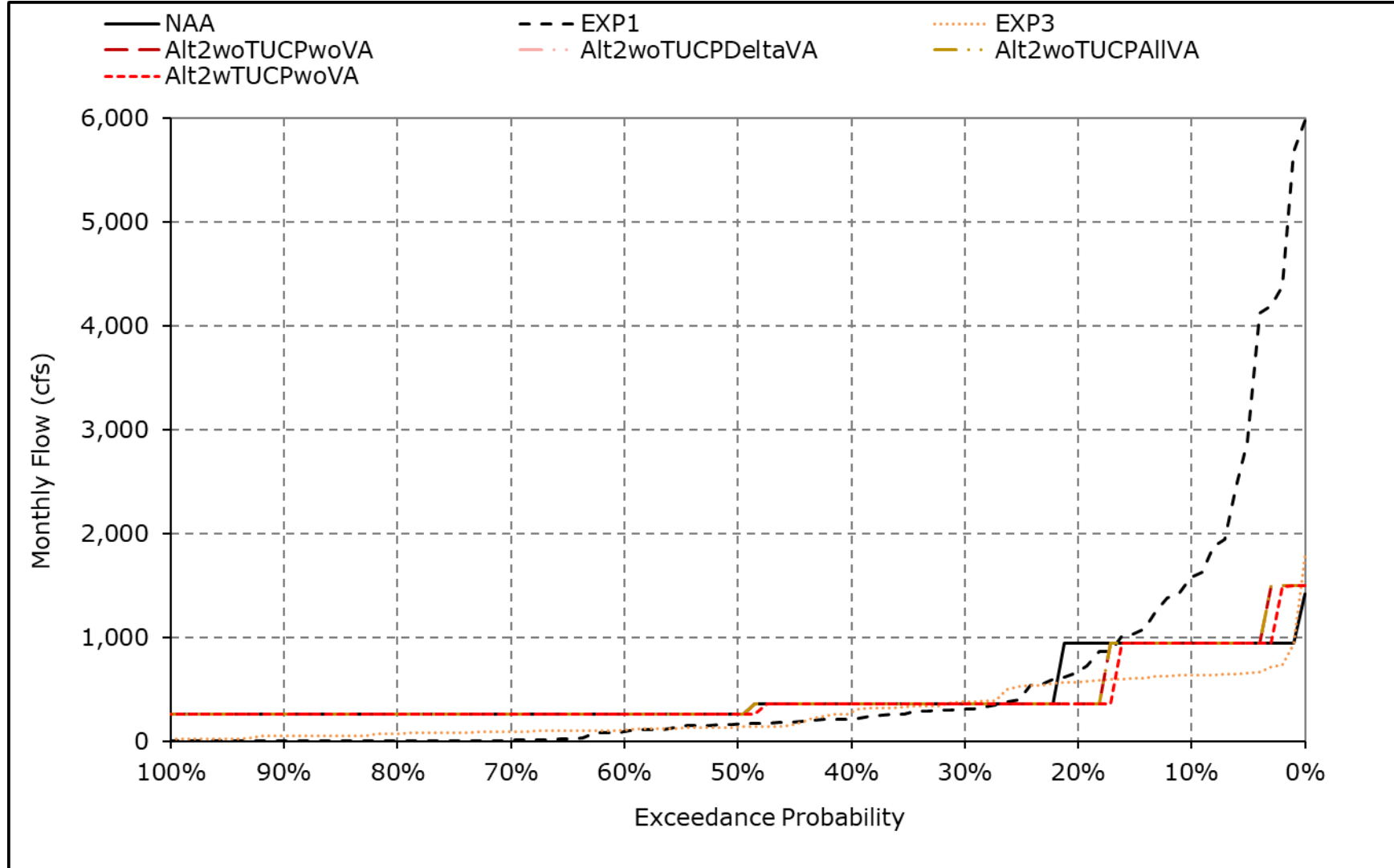
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-14. Stanislaus River Flow below Goodwin, May



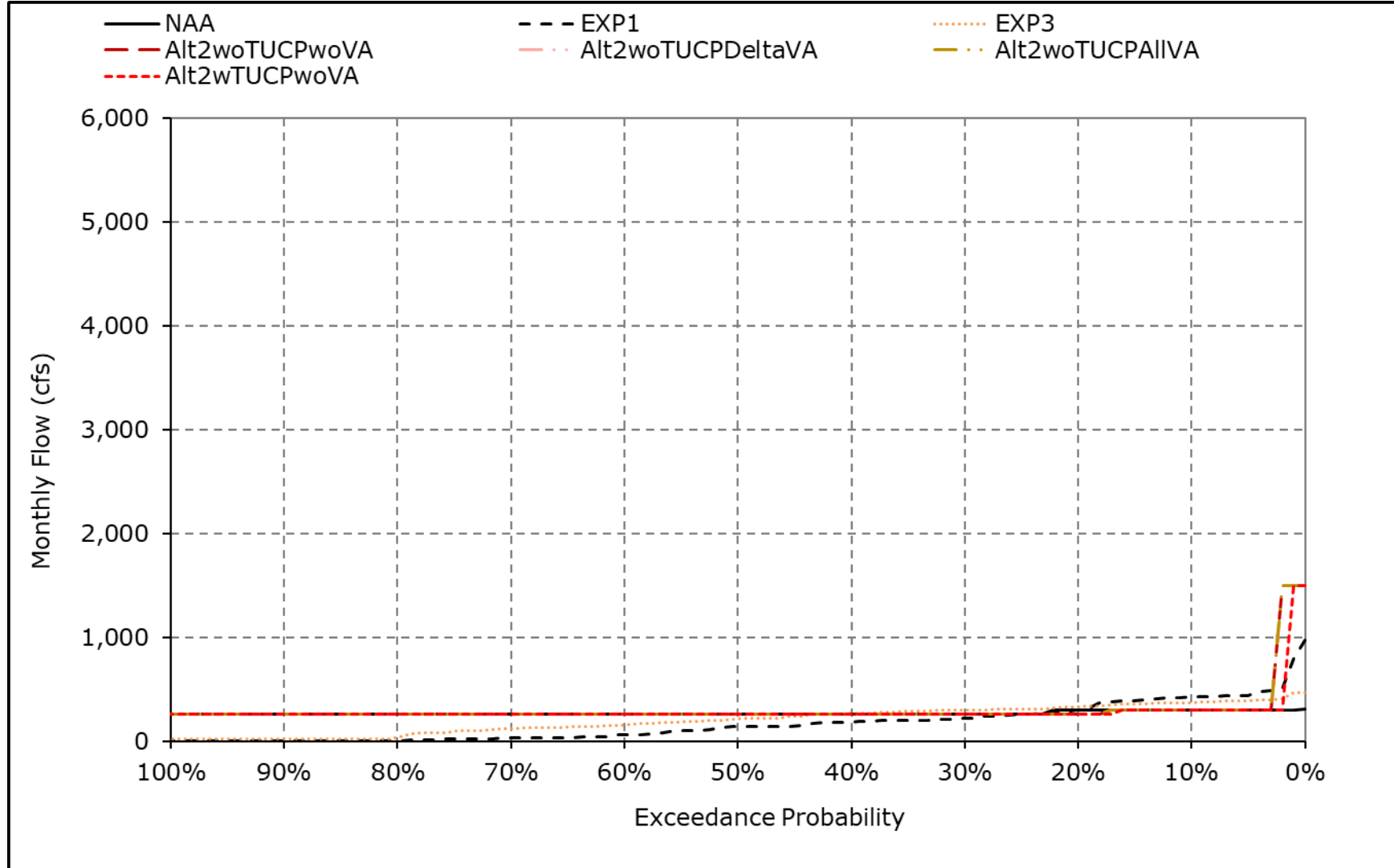
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-15. Stanislaus River Flow below Goodwin, June



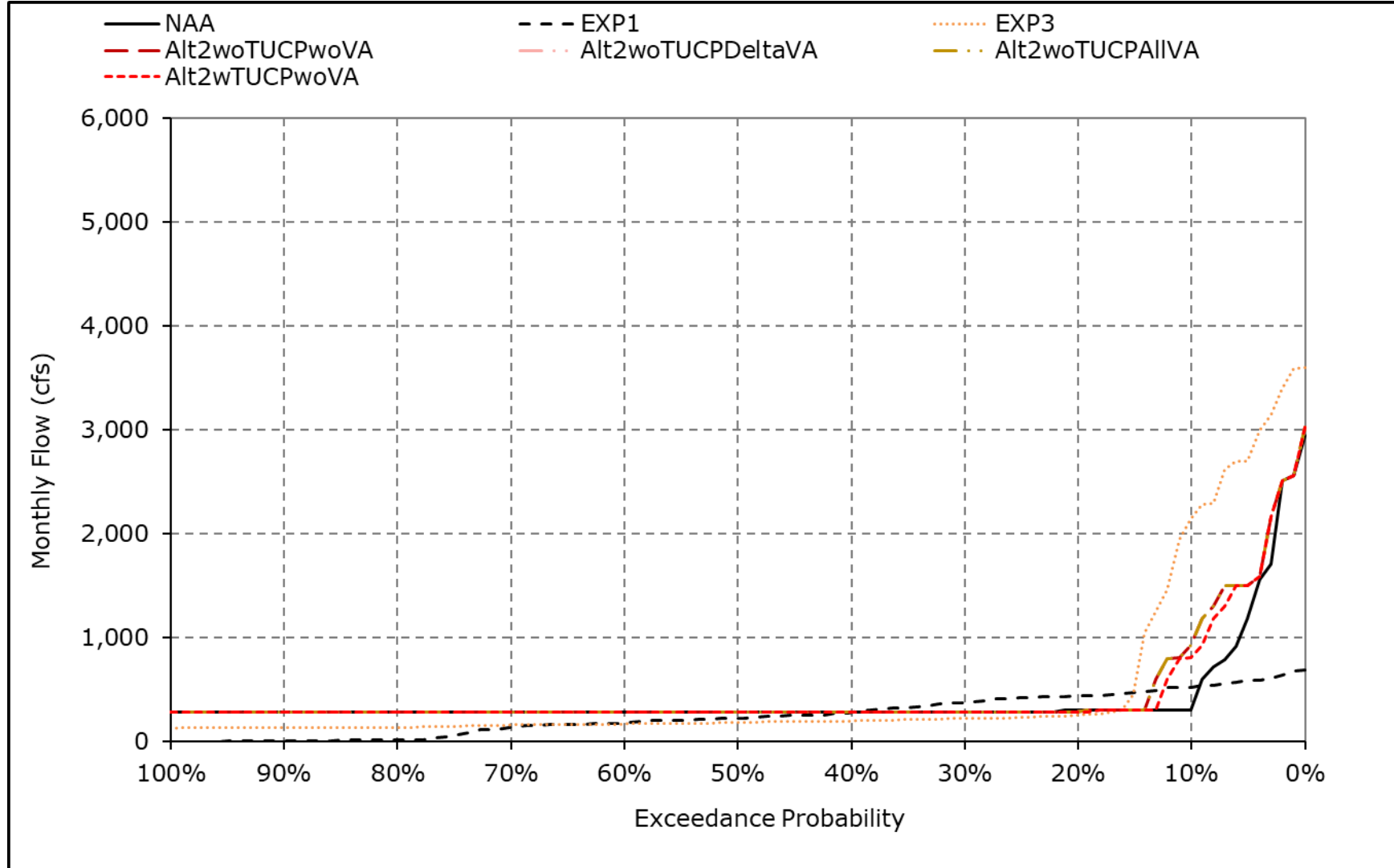
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-16. Stanislaus River Flow below Goodwin, July



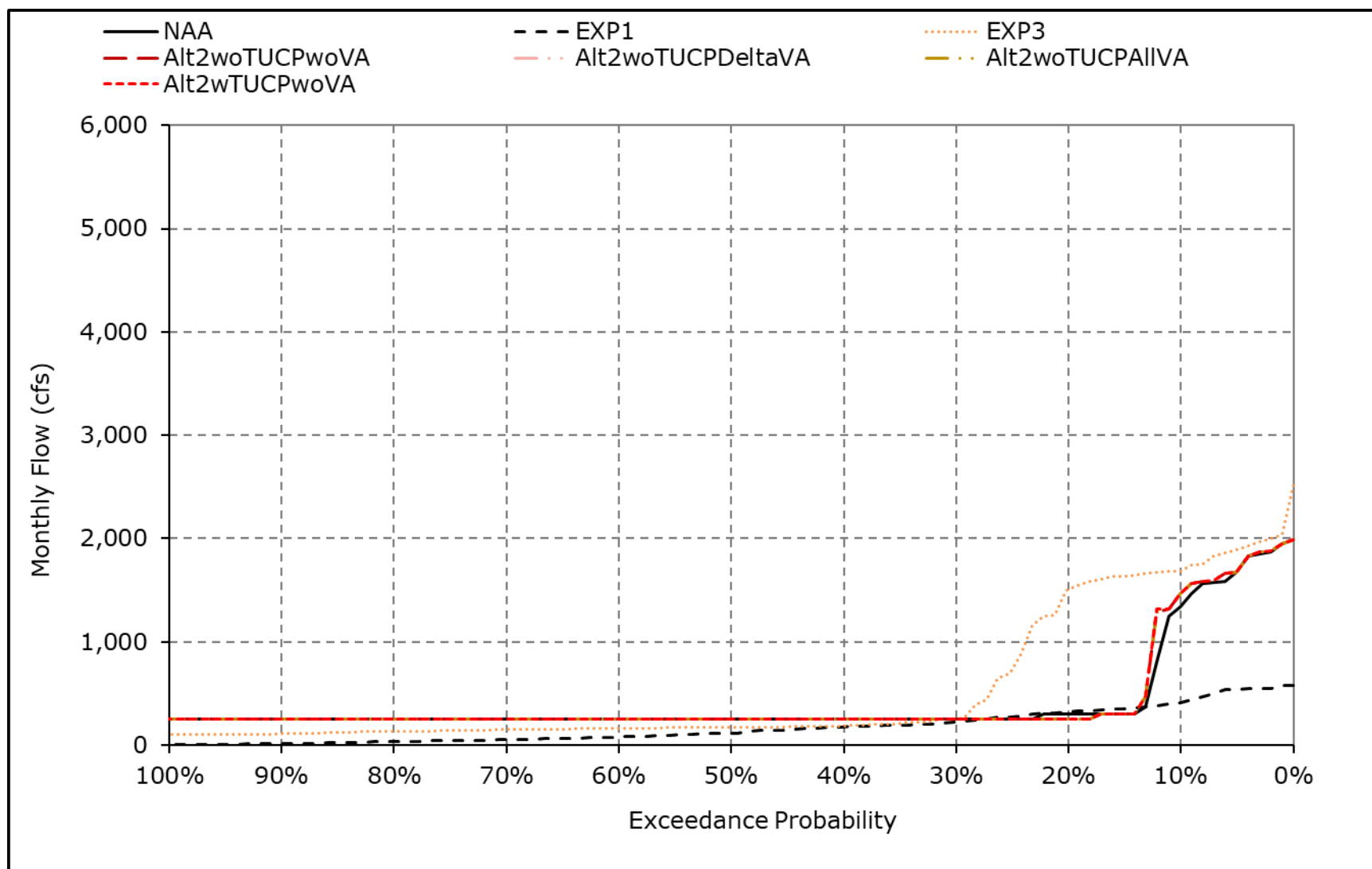
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-17. Stanislaus River Flow below Goodwin, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-19-18. Stanislaus River Flow below Goodwin, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-20-1a. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-1b. Stanislaus River Flow at Mouth, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	631	910	2,053	3,149	2,254	2,053	2,469	1,091	668	751	1,220
20% Exceedance	606	441	439	637	1,543	1,268	1,577	1,494	698	449	354	337
30% Exceedance	572	425	368	399	796	698	1,151	1,343	651	381	321	306
40% Exceedance	554	411	307	358	617	527	950	1,094	600	338	312	290
50% Exceedance	521	396	289	318	494	387	762	869	472	286	294	276
60% Exceedance	496	367	278	301	438	326	626	669	378	261	286	264
70% Exceedance	480	353	264	293	411	288	535	604	348	245	257	248
80% Exceedance	448	331	248	287	385	262	508	561	310	212	241	232
90% Exceedance	417	313	234	268	360	229	467	520	260	168	201	199
Full Simulation Period Average ^a	594	482	531	811	1,095	904	1,048	1,157	587	353	406	423
Wet Water Years (22%)	931	862	876	1,532	2,189	1,995	1,929	2,335	1,144	587	775	957
Above Normal Water Years (12%)	575	442	636	1,354	1,476	1,294	1,424	1,321	624	354	298	258
Below Normal Water Years (15%)	558	418	428	934	1,300	934	1,127	1,164	577	337	296	259
Dry Water Years (17%)	490	371	599	350	481	416	639	711	378	253	280	278
Critical Water Years (34%)	448	330	271	328	468	290	515	556	323	258	316	281

Table F.2.2-20-1c. Stanislaus River Flow at Mouth, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	12	11	28	38	15	-95	23	195	-85	38	285	285
20% Exceedance	0	-10	30	-23	96	-103	-23	-43	-217	-57	-4	16
30% Exceedance	-1	-3	15	-12	33	-42	-164	-37	1	3	2	9
40% Exceedance	0	-5	-2	-6	69	25	-66	-155	-3	-3	9	12
50% Exceedance	-8	-4	-5	-15	52	20	-77	-127	-7	1	5	9
60% Exceedance	0	-3	-2	-14	44	32	-17	-93	-24	4	10	7
70% Exceedance	2	-1	0	-12	42	26	-5	-32	0	1	2	7
80% Exceedance	13	3	2	-7	40	19	12	4	20	10	12	7
90% Exceedance	11	1	0	-9	36	17	7	4	20	26	9	4
Full Simulation Period Average ^a	4	0	18	-14	15	-1	-31	-34	-16	13	35	24
Wet Water Years (22%)	7	2	22	-86	-66	-59	-4	11	-79	-44	19	33
Above Normal Water Years (12%)	2	2	10	39	64	25	-29	-21	-5	0	0	3
Below Normal Water Years (15%)	-11	-8	13	15	12	-20	-146	-110	-37	-15	-1	5
Dry Water Years (17%)	-8	-6	51	3	54	34	-44	-110	-42	-8	10	18
Critical Water Years (34%)	17	6	4	-7	33	18	9	3	44	77	87	38

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-2a. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-2b. Stanislaus River Flow at Mouth, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	630	910	2,053	3,149	2,254	2,053	2,469	1,091	668	751	1,220
20% Exceedance	606	441	441	638	1,543	1,268	1,577	1,494	698	450	354	337
30% Exceedance	571	425	368	399	796	698	1,151	1,343	651	380	321	306
40% Exceedance	553	410	307	358	617	527	950	1,094	600	338	311	290
50% Exceedance	521	396	289	318	494	387	762	869	472	286	294	276
60% Exceedance	496	367	278	302	437	326	627	669	378	257	284	264
70% Exceedance	478	353	264	293	411	287	535	605	348	244	260	248
80% Exceedance	445	331	248	287	385	261	508	561	310	213	237	230
90% Exceedance	415	313	234	267	361	228	468	521	261	168	201	199
Full Simulation Period Average ^a	593	482	531	811	1,095	903	1,048	1,157	587	353	406	423
Wet Water Years (22%)	931	862	877	1,532	2,189	1,995	1,929	2,334	1,144	587	775	957
Above Normal Water Years (12%)	574	442	636	1,354	1,476	1,294	1,424	1,321	624	355	298	258
Below Normal Water Years (15%)	557	418	428	934	1,300	934	1,127	1,164	576	338	295	259
Dry Water Years (17%)	489	370	599	350	481	415	638	711	378	253	280	277
Critical Water Years (34%)	447	330	271	329	469	289	515	556	324	258	315	280

Table F.2.2-20-2c. Stanislaus River Flow at Mouth, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	12	10	28	38	15	-95	23	195	-85	38	285	285
20% Exceedance	0	-10	31	-21	96	-103	-23	-43	-217	-56	-4	15
30% Exceedance	-3	-4	15	-12	33	-42	-164	-38	0	3	2	9
40% Exceedance	-1	-6	-2	-6	69	24	-66	-155	-3	-3	8	12
50% Exceedance	-9	-4	-5	-15	52	20	-77	-127	-7	1	5	9
60% Exceedance	0	-4	-2	-13	44	32	-15	-93	-24	0	9	7
70% Exceedance	-1	-1	0	-12	42	26	-4	-30	1	0	5	7
80% Exceedance	10	3	2	-7	40	18	12	4	20	10	8	5
90% Exceedance	9	1	0	-9	36	16	8	5	21	26	9	4
Full Simulation Period Average ^a	3	0	18	-14	16	-1	-31	-34	-15	13	35	24
Wet Water Years (22%)	7	2	23	-86	-66	-59	-3	11	-79	-44	19	33
Above Normal Water Years (12%)	1	2	10	39	64	25	-30	-21	-5	-2	0	3
Below Normal Water Years (15%)	-12	-8	13	15	12	-20	-146	-110	-38	-14	-1	5
Dry Water Years (17%)	-9	-7	51	4	54	33	-44	-110	-42	-9	10	18
Critical Water Years (34%)	15	6	4	-6	34	18	9	3	45	77	86	37

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-3a. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-3b. Stanislaus River Flow at Mouth, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	635	909	2,037	3,149	2,253	2,053	2,469	1,091	668	751	1,221
20% Exceedance	606	440	441	638	1,543	1,268	1,578	1,494	698	449	354	337
30% Exceedance	571	425	368	399	796	698	1,151	1,343	651	381	320	305
40% Exceedance	552	411	307	358	617	527	950	1,094	595	338	311	290
50% Exceedance	521	396	289	318	495	388	762	869	472	285	294	276
60% Exceedance	495	367	277	302	438	326	627	669	378	257	285	264
70% Exceedance	478	353	264	293	411	287	538	606	348	245	257	246
80% Exceedance	449	332	248	287	385	260	510	561	311	214	237	233
90% Exceedance	415	314	234	267	361	229	468	519	261	168	202	199
Full Simulation Period Average ^a	593	482	531	811	1,094	903	1,048	1,156	587	353	405	423
Wet Water Years (22%)	930	862	877	1,531	2,188	1,995	1,929	2,333	1,144	587	775	957
Above Normal Water Years (12%)	573	442	636	1,354	1,476	1,294	1,424	1,321	624	355	298	258
Below Normal Water Years (15%)	557	418	429	933	1,299	934	1,126	1,164	576	338	296	258
Dry Water Years (17%)	488	370	599	350	481	415	638	711	378	253	280	277
Critical Water Years (34%)	447	331	271	329	469	289	515	556	324	258	316	281

Table F.2.2-20-3c. Stanislaus River Flow at Mouth, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	12	15	27	22	15	-95	23	195	-85	38	285	286
20% Exceedance	0	-11	31	-21	96	-104	-23	-43	-217	-57	-4	15
30% Exceedance	-3	-4	15	-12	33	-42	-164	-37	1	3	2	7
40% Exceedance	-1	-5	-2	-6	69	25	-66	-155	-7	-3	8	12
50% Exceedance	-9	-4	-5	-15	53	20	-77	-127	-7	-1	5	9
60% Exceedance	-1	-3	-2	-13	44	32	-15	-93	-24	0	9	8
70% Exceedance	0	-1	0	-12	42	26	-2	-30	1	1	2	6
80% Exceedance	14	4	2	-7	40	16	14	4	21	12	8	8
90% Exceedance	9	1	1	-9	36	17	8	3	21	26	10	4
Full Simulation Period Average ^a	3	0	18	-14	15	-2	-31	-34	-16	13	35	24
Wet Water Years (22%)	6	2	23	-87	-68	-60	-4	10	-80	-44	19	32
Above Normal Water Years (12%)	0	2	10	39	64	25	-29	-21	-5	-2	-1	3
Below Normal Water Years (15%)	-12	-8	13	14	11	-20	-146	-110	-38	-14	-1	5
Dry Water Years (17%)	-10	-7	51	4	54	33	-44	-110	-42	-9	10	17
Critical Water Years (34%)	16	6	4	-6	34	17	9	3	45	77	86	38

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-4a. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-4b. Stanislaus River Flow at Mouth, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	635	910	2,053	3,150	2,254	2,053	2,469	1,091	647	684	1,221
20% Exceedance	605	442	439	637	1,544	1,274	1,578	1,496	692	432	349	332
30% Exceedance	570	425	368	419	816	727	1,152	1,343	646	376	321	302
40% Exceedance	552	410	307	361	626	556	972	1,128	600	338	311	289
50% Exceedance	516	390	289	322	500	391	763	869	459	282	294	275
60% Exceedance	495	362	277	304	438	326	626	669	372	257	284	263
70% Exceedance	481	353	263	294	410	288	537	605	347	245	256	248
80% Exceedance	448	331	249	287	385	262	508	561	295	211	236	229
90% Exceedance	417	313	234	268	360	230	468	520	253	152	201	199
Full Simulation Period Average ^a	593	482	531	814	1,099	912	1,052	1,160	583	345	396	419
Wet Water Years (22%)	931	863	877	1,533	2,190	1,996	1,930	2,339	1,146	587	776	958
Above Normal Water Years (12%)	575	443	637	1,355	1,476	1,294	1,425	1,322	625	356	298	259
Below Normal Water Years (15%)	559	419	429	935	1,308	975	1,150	1,174	579	338	296	260
Dry Water Years (17%)	491	371	600	368	496	430	641	712	379	254	280	278
Critical Water Years (34%)	442	329	271	329	469	290	515	556	308	233	287	269

Table F.2.2-20-4c. Stanislaus River Flow at Mouth, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	12	15	28	38	16	-94	24	195	-85	17	218	286
20% Exceedance	-2	-10	30	-23	97	-97	-23	-42	-224	-74	-9	11
30% Exceedance	-4	-3	15	8	53	-13	-163	-37	-4	-1	2	5
40% Exceedance	-1	-6	-1	-3	78	53	-44	-120	-2	-3	8	11
50% Exceedance	-13	-10	-5	-11	58	24	-76	-126	-21	-3	5	8
60% Exceedance	-2	-8	-2	-12	44	33	-16	-93	-30	0	8	7
70% Exceedance	2	-2	0	-10	41	27	-3	-30	0	1	1	7
80% Exceedance	13	3	2	-6	40	19	12	4	5	9	7	4
90% Exceedance	11	1	1	-8	35	18	8	5	13	11	9	4
Full Simulation Period Average ^a	3	0	18	-10	19	8	-26	-31	-20	4	26	21
Wet Water Years (22%)	7	3	23	-86	-65	-59	-3	16	-78	-44	20	34
Above Normal Water Years (12%)	3	3	11	40	64	25	-29	-20	-4	-1	0	4
Below Normal Water Years (15%)	-10	-8	13	16	20	21	-122	-100	-35	-14	0	6
Dry Water Years (17%)	-7	-6	51	21	68	47	-41	-109	-41	-8	11	19
Critical Water Years (34%)	11	4	3	-6	33	19	9	4	30	52	58	25

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-5a. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-5b. Stanislaus River Flow at Mouth, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,113	790	1,206	2,779	3,533	2,873	1,923	2,763	929	233	1,160	1,462
20% Exceedance	749	631	684	1,358	2,581	1,663	1,469	1,142	485	46	29	598
30% Exceedance	431	422	469	643	1,810	1,110	1,214	966	235	0	14	68
40% Exceedance	344	284	278	445	1,154	659	762	836	187	0	4	7
50% Exceedance	315	254	210	306	702	382	574	608	98	0	0	0
60% Exceedance	253	208	180	243	470	197	431	386	15	0	0	0
70% Exceedance	232	190	144	190	312	127	280	243	0	0	0	0
80% Exceedance	190	152	131	167	251	92	181	177	0	0	0	0
90% Exceedance	170	129	112	134	193	55	156	124	0	0	0	0
Full Simulation Period Average ^a	470	462	631	953	1,453	985	890	909	271	50	214	307
Wet Water Years (22%)	972	909	937	2,104	3,250	2,463	1,936	2,460	951	223	938	1,157
Above Normal Water Years (12%)	601	488	1,065	1,522	2,016	1,493	1,310	926	221	2	30	248
Below Normal Water Years (15%)	453	466	591	1,055	1,730	992	1,020	842	194	4	6	109
Dry Water Years (17%)	280	465	687	373	610	394	458	437	32	0	0	9
Critical Water Years (34%)	189	152	245	255	392	142	225	164	3	0	9	13

Table F.2.2-20-5c. Stanislaus River Flow at Mouth, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	126	169	324	764	399	525	-106	489	-247	-396	694	527
20% Exceedance	142	179	275	698	1,134	292	-132	-396	-430	-461	-328	276
30% Exceedance	-143	-7	116	232	1,047	370	-101	-415	-415	-378	-305	-229
40% Exceedance	-209	-132	-31	82	606	156	-254	-412	-415	-341	-299	-271
50% Exceedance	-215	-146	-84	-27	260	14	-265	-388	-381	-286	-289	-267
60% Exceedance	-243	-162	-99	-73	76	-96	-212	-376	-387	-257	-275	-256
70% Exceedance	-247	-164	-119	-115	-57	-135	-259	-393	-347	-244	-255	-241
80% Exceedance	-245	-176	-115	-126	-94	-151	-315	-380	-290	-202	-229	-225
90% Exceedance	-236	-183	-121	-143	-132	-157	-304	-392	-240	-141	-192	-195
Full Simulation Period Average ^a	-120	-19	118	129	374	80	-188	-282	-332	-290	-156	-92
Wet Water Years (22%)	48	49	83	485	994	408	3	137	-272	-408	182	233
Above Normal Water Years (12%)	28	48	439	207	604	224	-144	-415	-408	-354	-268	-8
Below Normal Water Years (15%)	-115	39	176	135	442	38	-253	-432	-420	-348	-291	-144
Dry Water Years (17%)	-218	88	139	26	183	12	-224	-384	-388	-262	-269	-251
Critical Water Years (34%)	-242	-172	-23	-80	-43	-130	-282	-389	-276	-181	-220	-230

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-6a. Stanislaus River Flow at Mouth, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	210	396	2,217	3,444	3,813	3,774	3,925	4,368	2,261	627	184	84
20% Exceedance	164	255	680	1,880	3,190	2,663	2,925	3,099	1,123	389	62	39
30% Exceedance	148	191	535	1,296	2,296	2,006	2,122	2,312	642	173	9	0
40% Exceedance	124	171	394	825	1,841	1,645	1,782	1,495	479	40	0	0
50% Exceedance	108	158	234	657	1,110	1,242	1,244	952	286	0	0	0
60% Exceedance	85	137	154	417	891	943	816	370	51	0	0	0
70% Exceedance	64	112	107	322	676	636	491	276	0	0	0	0
80% Exceedance	40	64	81	201	514	392	249	133	0	0	0	0
90% Exceedance	2	22	48	101	293	122	84	80	0	0	0	0
Full Simulation Period Average ^a	118	277	689	1,252	1,839	1,672	1,641	1,608	707	182	50	26
Wet Water Years (22%)	178	465	686	3,085	3,875	3,580	3,614	4,035	2,284	637	186	88
Above Normal Water Years (12%)	168	244	983	1,570	2,282	2,298	2,222	1,952	719	175	28	8
Below Normal Water Years (15%)	118	243	611	1,359	2,498	1,871	1,980	1,880	549	127	39	25
Dry Water Years (17%)	135	461	1,133	520	958	1,155	1,084	790	167	10	0	7
Critical Water Years (34%)	49	87	380	271	515	386	288	205	22	1	0	3

Table F.2.2-20-6b. Stanislaus River Flow at Mouth, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	631	910	2,053	3,149	2,254	2,053	2,469	1,091	668	751	1,220
20% Exceedance	606	441	439	637	1,543	1,268	1,577	1,494	698	449	354	337
30% Exceedance	572	425	368	399	796	698	1,151	1,343	651	381	321	306
40% Exceedance	554	411	307	358	617	527	950	1,094	600	338	312	290
50% Exceedance	521	396	289	318	494	387	762	869	472	286	294	276
60% Exceedance	496	367	278	301	438	326	626	669	378	261	286	264
70% Exceedance	480	353	264	293	411	288	535	604	348	245	257	248
80% Exceedance	448	331	248	287	385	262	508	561	310	212	241	232
90% Exceedance	417	313	234	268	360	229	467	520	260	168	201	199
Full Simulation Period Average ^a	594	482	531	811	1,095	904	1,048	1,157	587	353	406	423
Wet Water Years (22%)	931	862	876	1,532	2,189	1,995	1,929	2,335	1,144	587	775	957
Above Normal Water Years (12%)	575	442	636	1,354	1,476	1,294	1,424	1,321	624	354	298	258
Below Normal Water Years (15%)	558	418	428	934	1,300	934	1,127	1,164	577	337	296	259
Dry Water Years (17%)	490	371	599	350	481	416	639	711	378	253	280	278
Critical Water Years (34%)	448	330	271	328	468	290	515	556	323	258	316	281

Table F.2.2-20-6c. Stanislaus River Flow at Mouth, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	789	235	-1,307	-1,391	-663	-1,520	-1,872	-1,899	-1,169	41	566	1,136
20% Exceedance	442	187	-241	-1,243	-1,647	-1,395	-1,348	-1,605	-425	60	292	298
30% Exceedance	425	235	-168	-898	-1,500	-1,308	-971	-969	9	208	311	305
40% Exceedance	429	240	-87	-467	-1,224	-1,118	-832	-402	121	298	312	290
50% Exceedance	413	237	55	-340	-615	-855	-482	-83	186	286	294	276
60% Exceedance	411	230	123	-116	-453	-617	-191	299	327	261	286	264
70% Exceedance	416	241	157	-29	-265	-348	44	328	348	245	257	248
80% Exceedance	408	267	167	86	-129	-130	259	428	310	212	241	232
90% Exceedance	415	291	186	166	68	107	383	440	260	168	201	199
Full Simulation Period Average ^a	477	205	-157	-441	-744	-768	-593	-451	-120	171	356	397
Wet Water Years (22%)	753	397	189	-1,553	-1,685	-1,584	-1,685	-1,700	-1,140	-51	589	868
Above Normal Water Years (12%)	406	198	-347	-216	-806	-1,004	-798	-631	-95	179	270	251
Below Normal Water Years (15%)	440	175	-183	-424	-1,199	-936	-853	-716	28	211	257	234
Dry Water Years (17%)	356	-90	-534	-170	-476	-739	-446	-79	211	244	280	271
Critical Water Years (34%)	399	244	-108	58	-47	-96	227	351	301	257	316	278

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-7a. Stanislaus River Flow at Mouth, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	210	396	2,217	3,444	3,813	3,774	3,925	4,368	2,261	627	184	84
20% Exceedance	164	255	680	1,880	3,190	2,663	2,925	3,099	1,123	389	62	39
30% Exceedance	148	191	535	1,296	2,296	2,006	2,122	2,312	642	173	9	0
40% Exceedance	124	171	394	825	1,841	1,645	1,782	1,495	479	40	0	0
50% Exceedance	108	158	234	657	1,110	1,242	1,244	952	286	0	0	0
60% Exceedance	85	137	154	417	891	943	816	370	51	0	0	0
70% Exceedance	64	112	107	322	676	636	491	276	0	0	0	0
80% Exceedance	40	64	81	201	514	392	249	133	0	0	0	0
90% Exceedance	2	22	48	101	293	122	84	80	0	0	0	0
Full Simulation Period Average ^a	118	277	689	1,252	1,839	1,672	1,641	1,608	707	182	50	26
Wet Water Years (22%)	178	465	686	3,085	3,875	3,580	3,614	4,035	2,284	637	186	88
Above Normal Water Years (12%)	168	244	983	1,570	2,282	2,298	2,222	1,952	719	175	28	8
Below Normal Water Years (15%)	118	243	611	1,359	2,498	1,871	1,980	1,880	549	127	39	25
Dry Water Years (17%)	135	461	1,133	520	958	1,155	1,084	790	167	10	0	7
Critical Water Years (34%)	49	87	380	271	515	386	288	205	22	1	0	3

Table F.2.2-20-7b. Stanislaus River Flow at Mouth, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	630	910	2,053	3,149	2,254	2,053	2,469	1,091	668	751	1,220
20% Exceedance	606	441	441	638	1,543	1,268	1,577	1,494	698	450	354	337
30% Exceedance	571	425	368	399	796	698	1,151	1,343	651	380	321	306
40% Exceedance	553	410	307	358	617	527	950	1,094	600	338	311	290
50% Exceedance	521	396	289	318	494	387	762	869	472	286	294	276
60% Exceedance	496	367	278	302	437	326	627	669	378	257	284	264
70% Exceedance	478	353	264	293	411	287	535	605	348	244	260	248
80% Exceedance	445	331	248	287	385	261	508	561	310	213	237	230
90% Exceedance	415	313	234	267	361	228	468	521	261	168	201	199
Full Simulation Period Average ^a	593	482	531	811	1,095	903	1,048	1,157	587	353	406	423
Wet Water Years (22%)	931	862	877	1,532	2,189	1,995	1,929	2,334	1,144	587	775	957
Above Normal Water Years (12%)	574	442	636	1,354	1,476	1,294	1,424	1,321	624	355	298	258
Below Normal Water Years (15%)	557	418	428	934	1,300	934	1,127	1,164	576	338	295	259
Dry Water Years (17%)	489	370	599	350	481	415	638	711	378	253	280	277
Critical Water Years (34%)	447	330	271	329	469	289	515	556	324	258	315	280

Table F.2.2-20-7c. Stanislaus River Flow at Mouth, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	789	234	-1,307	-1,391	-663	-1,520	-1,872	-1,900	-1,170	41	566	1,136
20% Exceedance	442	186	-240	-1,241	-1,647	-1,395	-1,348	-1,604	-425	61	292	298
30% Exceedance	423	234	-167	-898	-1,500	-1,307	-971	-969	9	208	311	305
40% Exceedance	428	239	-87	-468	-1,224	-1,118	-832	-402	121	298	311	290
50% Exceedance	412	238	55	-340	-615	-855	-482	-84	187	286	294	276
60% Exceedance	411	230	123	-115	-454	-617	-189	299	327	257	284	264
70% Exceedance	414	241	157	-29	-265	-348	44	330	348	244	260	248
80% Exceedance	405	267	167	86	-129	-130	259	428	310	213	237	230
90% Exceedance	413	291	186	166	68	106	383	442	261	168	201	199
Full Simulation Period Average ^a	476	204	-157	-441	-744	-768	-593	-451	-120	171	355	396
Wet Water Years (22%)	753	397	191	-1,553	-1,685	-1,584	-1,684	-1,700	-1,140	-50	589	868
Above Normal Water Years (12%)	405	198	-347	-216	-806	-1,004	-798	-631	-95	179	270	251
Below Normal Water Years (15%)	438	175	-183	-424	-1,199	-937	-854	-716	27	211	257	234
Dry Water Years (17%)	354	-91	-534	-170	-476	-740	-446	-79	211	243	280	271
Critical Water Years (34%)	398	244	-108	58	-46	-97	227	351	302	257	315	277

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-8a. Stanislaus River Flow at Mouth, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	210	396	2,217	3,444	3,813	3,774	3,925	4,368	2,261	627	184	84
20% Exceedance	164	255	680	1,880	3,190	2,663	2,925	3,099	1,123	389	62	39
30% Exceedance	148	191	535	1,296	2,296	2,006	2,122	2,312	642	173	9	0
40% Exceedance	124	171	394	825	1,841	1,645	1,782	1,495	479	40	0	0
50% Exceedance	108	158	234	657	1,110	1,242	1,244	952	286	0	0	0
60% Exceedance	85	137	154	417	891	943	816	370	51	0	0	0
70% Exceedance	64	112	107	322	676	636	491	276	0	0	0	0
80% Exceedance	40	64	81	201	514	392	249	133	0	0	0	0
90% Exceedance	2	22	48	101	293	122	84	80	0	0	0	0
Full Simulation Period Average ^a	118	277	689	1,252	1,839	1,672	1,641	1,608	707	182	50	26
Wet Water Years (22%)	178	465	686	3,085	3,875	3,580	3,614	4,035	2,284	637	186	88
Above Normal Water Years (12%)	168	244	983	1,570	2,282	2,298	2,222	1,952	719	175	28	8
Below Normal Water Years (15%)	118	243	611	1,359	2,498	1,871	1,980	1,880	549	127	39	25
Dry Water Years (17%)	135	461	1,133	520	958	1,155	1,084	790	167	10	0	7
Critical Water Years (34%)	49	87	380	271	515	386	288	205	22	1	0	3

Table F.2.2-20-8b. Stanislaus River Flow at Mouth, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	635	909	2,037	3,149	2,253	2,053	2,469	1,091	668	751	1,221
20% Exceedance	606	440	441	638	1,543	1,268	1,578	1,494	698	449	354	337
30% Exceedance	571	425	368	399	796	698	1,151	1,343	651	381	320	305
40% Exceedance	552	411	307	358	617	527	950	1,094	595	338	311	290
50% Exceedance	521	396	289	318	495	388	762	869	472	285	294	276
60% Exceedance	495	367	277	302	438	326	627	669	378	257	285	264
70% Exceedance	478	353	264	293	411	287	538	606	348	245	257	246
80% Exceedance	449	332	248	287	385	260	510	561	311	214	237	233
90% Exceedance	415	314	234	267	361	229	468	519	261	168	202	199
Full Simulation Period Average ^a	593	482	531	811	1,094	903	1,048	1,156	587	353	405	423
Wet Water Years (22%)	930	862	877	1,531	2,188	1,995	1,929	2,333	1,144	587	775	957
Above Normal Water Years (12%)	573	442	636	1,354	1,476	1,294	1,424	1,321	624	355	298	258
Below Normal Water Years (15%)	557	418	429	933	1,299	934	1,126	1,164	576	338	296	258
Dry Water Years (17%)	488	370	599	350	481	415	638	711	378	253	280	277
Critical Water Years (34%)	447	331	271	329	469	289	515	556	324	258	316	281

Table F.2.2-20-8c. Stanislaus River Flow at Mouth, Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	789	239	-1,308	-1,407	-663	-1,520	-1,872	-1,899	-1,169	41	566	1,136
20% Exceedance	442	186	-240	-1,241	-1,647	-1,396	-1,348	-1,605	-425	60	292	298
30% Exceedance	423	234	-167	-898	-1,500	-1,307	-971	-969	9	208	311	304
40% Exceedance	428	240	-87	-467	-1,224	-1,118	-833	-402	116	298	311	290
50% Exceedance	412	238	55	-340	-615	-854	-482	-83	186	285	294	276
60% Exceedance	410	230	123	-115	-454	-617	-189	299	327	257	285	264
70% Exceedance	414	241	157	-29	-265	-348	47	330	348	245	257	246
80% Exceedance	409	268	167	86	-129	-132	261	428	311	214	237	233
90% Exceedance	413	292	186	166	68	107	384	439	261	168	202	199
Full Simulation Period Average ^a	475	204	-157	-441	-745	-769	-593	-451	-120	171	355	397
Wet Water Years (22%)	752	397	190	-1,554	-1,687	-1,585	-1,685	-1,701	-1,141	-50	589	868
Above Normal Water Years (12%)	405	198	-347	-216	-806	-1,004	-798	-631	-95	180	270	251
Below Normal Water Years (15%)	439	175	-183	-425	-1,199	-937	-854	-716	27	211	257	234
Dry Water Years (17%)	354	-91	-534	-170	-476	-740	-446	-79	211	243	279	270
Critical Water Years (34%)	398	244	-108	58	-47	-97	227	351	302	257	316	278

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-9a. Stanislaus River Flow at Mouth, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	210	396	2,217	3,444	3,813	3,774	3,925	4,368	2,261	627	184	84
20% Exceedance	164	255	680	1,880	3,190	2,663	2,925	3,099	1,123	389	62	39
30% Exceedance	148	191	535	1,296	2,296	2,006	2,122	2,312	642	173	9	0
40% Exceedance	124	171	394	825	1,841	1,645	1,782	1,495	479	40	0	0
50% Exceedance	108	158	234	657	1,110	1,242	1,244	952	286	0	0	0
60% Exceedance	85	137	154	417	891	943	816	370	51	0	0	0
70% Exceedance	64	112	107	322	676	636	491	276	0	0	0	0
80% Exceedance	40	64	81	201	514	392	249	133	0	0	0	0
90% Exceedance	2	22	48	101	293	122	84	80	0	0	0	0
Full Simulation Period Average ^a	118	277	689	1,252	1,839	1,672	1,641	1,608	707	182	50	26
Wet Water Years (22%)	178	465	686	3,085	3,875	3,580	3,614	4,035	2,284	637	186	88
Above Normal Water Years (12%)	168	244	983	1,570	2,282	2,298	2,222	1,952	719	175	28	8
Below Normal Water Years (15%)	118	243	611	1,359	2,498	1,871	1,980	1,880	549	127	39	25
Dry Water Years (17%)	135	461	1,133	520	958	1,155	1,084	790	167	10	0	7
Critical Water Years (34%)	49	87	380	271	515	386	288	205	22	1	0	3

Table F.2.2-20-9b. Stanislaus River Flow at Mouth, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	999	635	910	2,053	3,150	2,254	2,053	2,469	1,091	647	684	1,221
20% Exceedance	605	442	439	637	1,544	1,274	1,578	1,496	692	432	349	332
30% Exceedance	570	425	368	419	816	727	1,152	1,343	646	376	321	302
40% Exceedance	552	410	307	361	626	556	972	1,128	600	338	311	289
50% Exceedance	516	390	289	322	500	391	763	869	459	282	294	275
60% Exceedance	495	362	277	304	438	326	626	669	372	257	284	263
70% Exceedance	481	353	263	294	410	288	537	605	347	245	256	248
80% Exceedance	448	331	249	287	385	262	508	561	295	211	236	229
90% Exceedance	417	313	234	268	360	230	468	520	253	152	201	199
Full Simulation Period Average ^a	593	482	531	814	1,099	912	1,052	1,160	583	345	396	419
Wet Water Years (22%)	931	863	877	1,533	2,190	1,996	1,930	2,339	1,146	587	776	958
Above Normal Water Years (12%)	575	443	637	1,355	1,476	1,294	1,425	1,322	625	356	298	259
Below Normal Water Years (15%)	559	419	429	935	1,308	975	1,150	1,174	579	338	296	260
Dry Water Years (17%)	491	371	600	368	496	430	641	712	379	254	280	278
Critical Water Years (34%)	442	329	271	329	469	290	515	556	308	233	287	269

Table F.2.2-20-9c. Stanislaus River Flow at Mouth, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	789	239	-1,307	-1,391	-662	-1,520	-1,872	-1,899	-1,169	20	499	1,136
20% Exceedance	440	187	-241	-1,243	-1,646	-1,389	-1,348	-1,603	-431	43	287	293
30% Exceedance	423	235	-167	-878	-1,480	-1,279	-970	-969	5	204	312	302
40% Exceedance	428	239	-87	-464	-1,215	-1,090	-810	-367	121	298	311	289
50% Exceedance	408	232	55	-335	-610	-851	-482	-83	173	282	294	275
60% Exceedance	410	225	123	-113	-453	-617	-190	299	321	257	284	263
70% Exceedance	417	241	156	-28	-266	-348	46	330	347	245	256	248
80% Exceedance	408	267	167	86	-129	-129	259	428	295	211	236	229
90% Exceedance	415	291	186	167	67	108	384	441	253	152	201	199
Full Simulation Period Average ^a	475	204	-157	-437	-740	-759	-589	-448	-124	163	346	393
Wet Water Years (22%)	754	398	190	-1,553	-1,685	-1,584	-1,684	-1,695	-1,138	-50	589	869
Above Normal Water Years (12%)	407	199	-346	-216	-806	-1,004	-797	-630	-94	181	271	252
Below Normal Water Years (15%)	440	176	-182	-424	-1,191	-895	-830	-706	30	212	257	235
Dry Water Years (17%)	356	-90	-533	-152	-462	-726	-443	-78	212	244	280	272
Critical Water Years (34%)	394	242	-109	58	-47	-96	227	352	286	231	287	265

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-20-10a. Stanislaus River Flow at Mouth, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	210	396	2,217	3,444	3,813	3,774	3,925	4,368	2,261	627	184	84
20% Exceedance	164	255	680	1,880	3,190	2,663	2,925	3,099	1,123	389	62	39
30% Exceedance	148	191	535	1,296	2,296	2,006	2,122	2,312	642	173	9	0
40% Exceedance	124	171	394	825	1,841	1,645	1,782	1,495	479	40	0	0
50% Exceedance	108	158	234	657	1,110	1,242	1,244	952	286	0	0	0
60% Exceedance	85	137	154	417	891	943	816	370	51	0	0	0
70% Exceedance	64	112	107	322	676	636	491	276	0	0	0	0
80% Exceedance	40	64	81	201	514	392	249	133	0	0	0	0
90% Exceedance	2	22	48	101	293	122	84	80	0	0	0	0
Full Simulation Period Average ^a	118	277	689	1,252	1,839	1,672	1,641	1,608	707	182	50	26
Wet Water Years (22%)	178	465	686	3,085	3,875	3,580	3,614	4,035	2,284	637	186	88
Above Normal Water Years (12%)	168	244	983	1,570	2,282	2,298	2,222	1,952	719	175	28	8
Below Normal Water Years (15%)	118	243	611	1,359	2,498	1,871	1,980	1,880	549	127	39	25
Dry Water Years (17%)	135	461	1,133	520	958	1,155	1,084	790	167	10	0	7
Critical Water Years (34%)	49	87	380	271	515	386	288	205	22	1	0	3

Table F.2.2-20-10b. Stanislaus River Flow at Mouth, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	987	620	882	2,015	3,134	2,348	2,030	2,274	1,176	630	466	935
20% Exceedance	606	452	409	660	1,447	1,371	1,601	1,537	915	506	358	322
30% Exceedance	574	429	353	411	763	740	1,315	1,380	650	378	319	297
40% Exceedance	553	416	308	364	548	503	1,016	1,248	603	341	303	278
50% Exceedance	529	400	294	333	442	367	839	996	480	286	289	267
60% Exceedance	496	371	279	316	394	293	642	762	402	257	275	256
70% Exceedance	479	355	264	305	369	262	540	636	347	244	255	241
80% Exceedance	435	328	246	293	345	243	496	557	290	202	229	225
90% Exceedance	406	313	234	276	325	212	460	516	240	141	192	195
Full Simulation Period Average ^a	590	482	513	825	1,079	905	1,079	1,191	603	340	370	399
Wet Water Years (22%)	924	860	854	1,618	2,255	2,054	1,933	2,323	1,224	631	756	924
Above Normal Water Years (12%)	573	440	626	1,315	1,412	1,269	1,454	1,342	629	357	298	256
Below Normal Water Years (15%)	569	427	416	919	1,288	954	1,272	1,274	614	352	297	254
Dry Water Years (17%)	498	377	548	347	427	382	682	821	420	262	270	260
Critical Water Years (34%)	431	324	268	335	435	271	506	553	278	181	229	243

Table F.2.2-20-10c. Stanislaus River Flow at Mouth, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	777	224	-1,335	-1,429	-679	-1,425	-1,896	-2,094	-1,085	3	282	851
20% Exceedance	442	197	-271	-1,220	-1,743	-1,292	-1,325	-1,561	-208	117	296	283
30% Exceedance	426	238	-182	-885	-1,533	-1,265	-807	-932	9	205	310	297
40% Exceedance	429	245	-86	-462	-1,293	-1,143	-766	-247	124	301	303	278
50% Exceedance	421	242	60	-325	-668	-875	-405	43	194	286	289	267
60% Exceedance	411	233	125	-101	-498	-649	-174	392	351	257	275	256
70% Exceedance	414	242	157	-17	-307	-374	49	360	347	244	255	241
80% Exceedance	395	264	165	93	-169	-148	247	424	290	202	229	225
90% Exceedance	404	291	186	175	32	90	376	436	240	141	192	195
Full Simulation Period Average ^a	472	204	-175	-427	-760	-767	-562	-417	-104	158	320	373
Wet Water Years (22%)	746	395	168	-1,467	-1,620	-1,525	-1,681	-1,711	-1,061	-6	570	836
Above Normal Water Years (12%)	405	196	-357	-256	-870	-1,029	-768	-610	-89	182	271	248
Below Normal Water Years (15%)	450	184	-196	-440	-1,210	-917	-708	-606	65	226	258	229
Dry Water Years (17%)	363	-84	-585	-174	-531	-773	-402	31	253	252	269	253
Critical Water Years (34%)	382	238	-112	64	-80	-115	218	348	256	180	229	240

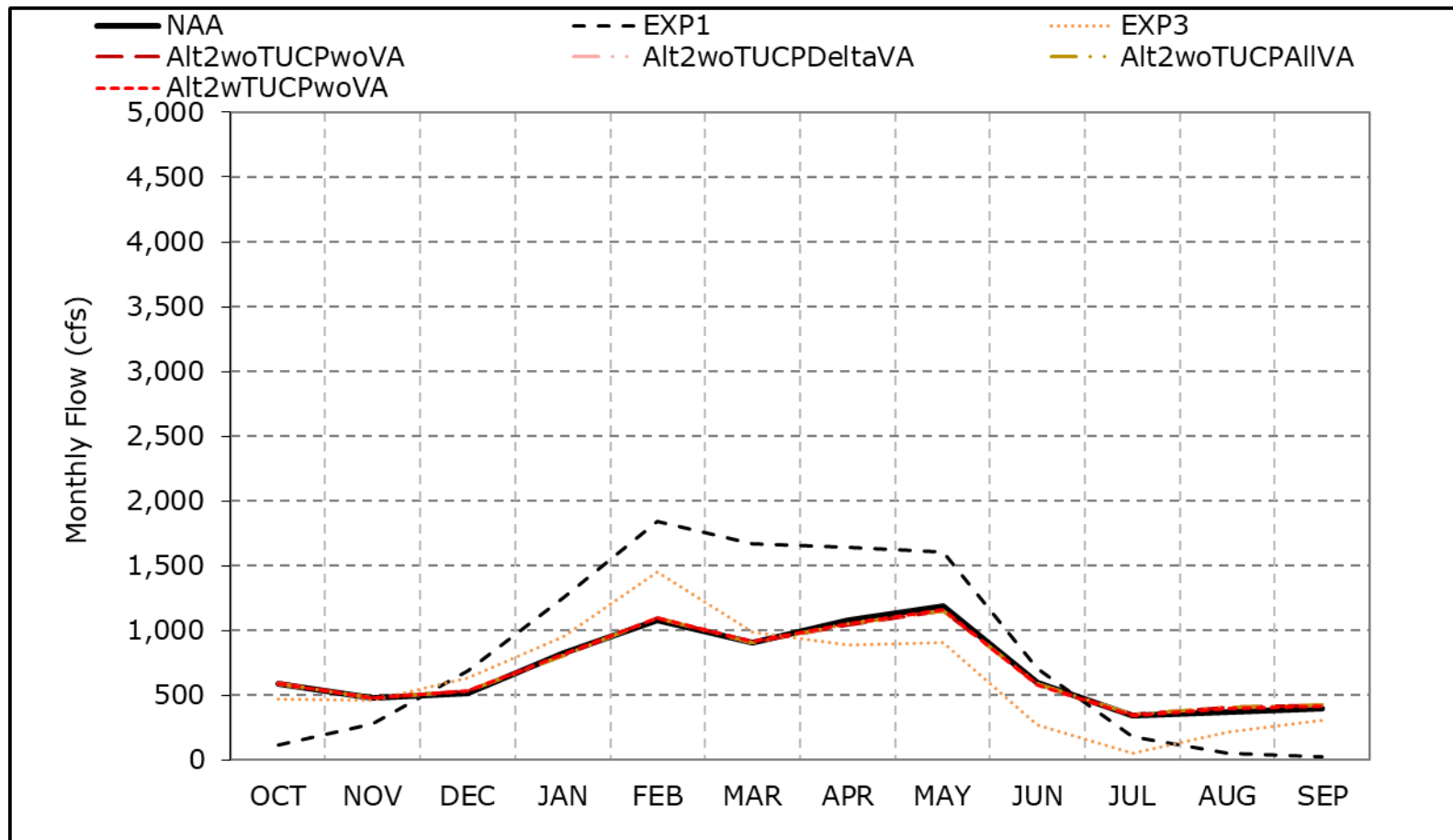
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-20-1. Stanislaus River Flow at Mouth, Long-Term Average Flow

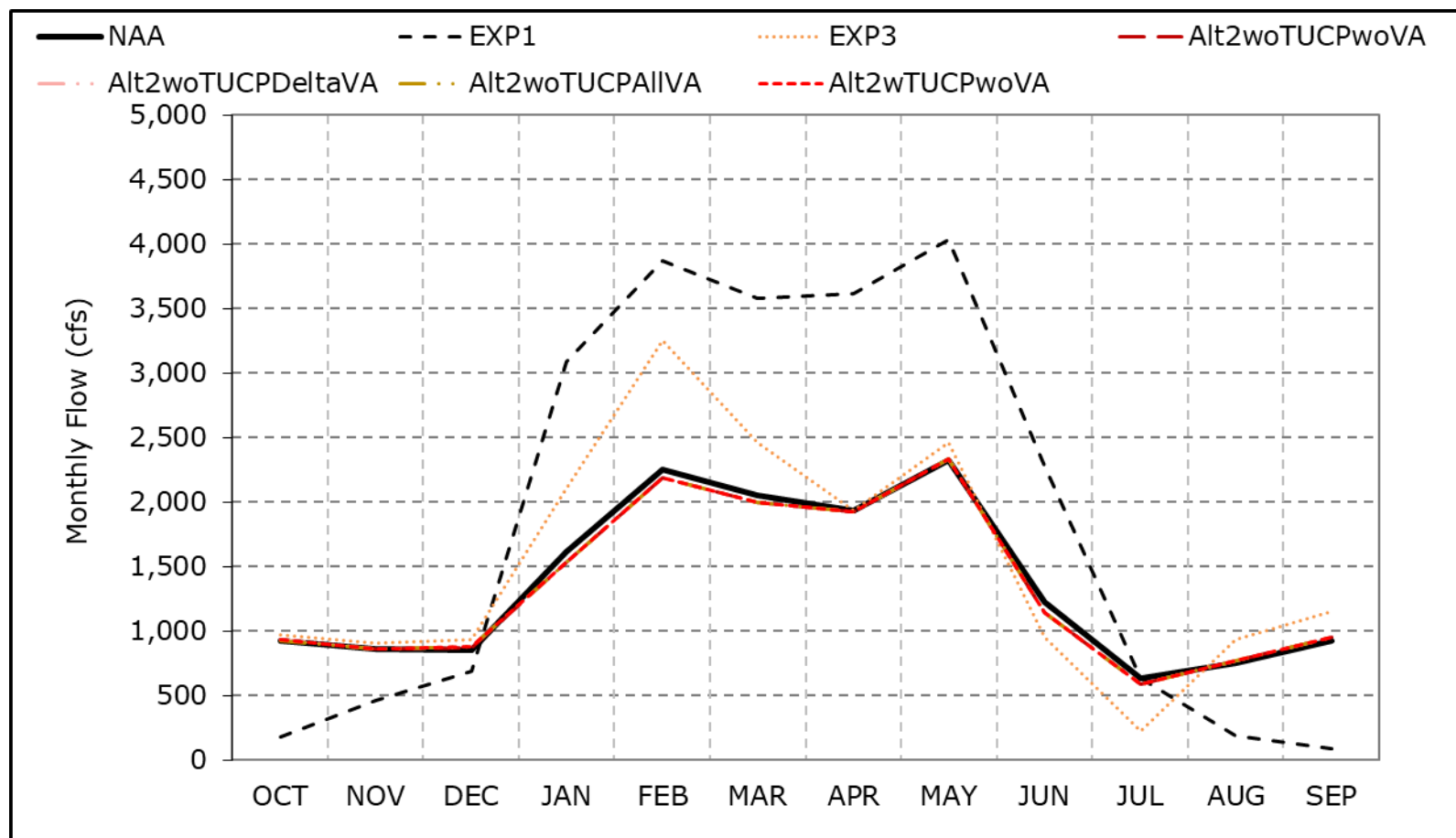


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-2. Stanislaus River Flow at Mouth, Wet Year Average Flow

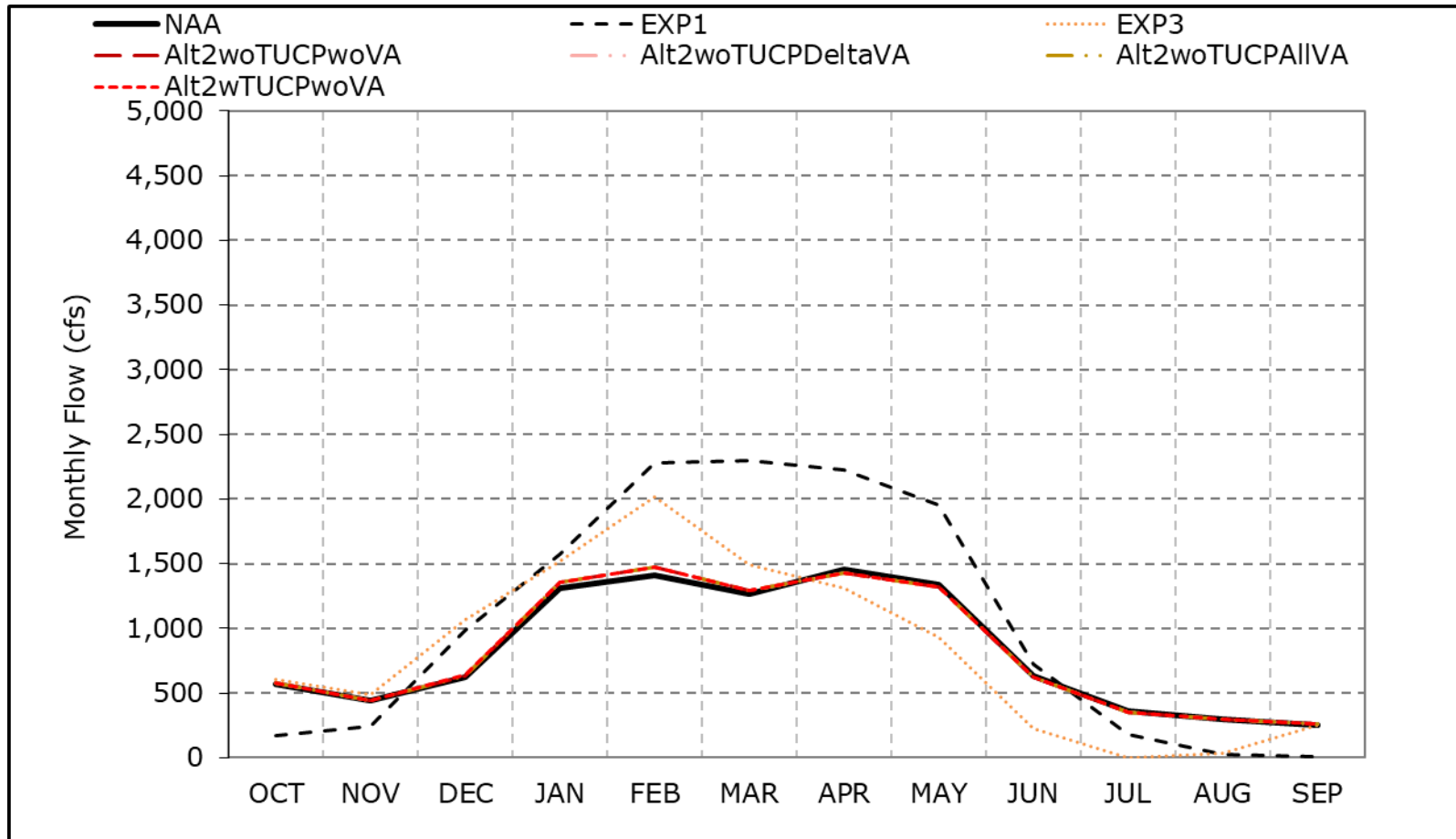


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-3. Stanislaus River Flow at Mouth, Above Normal Year Average Flow

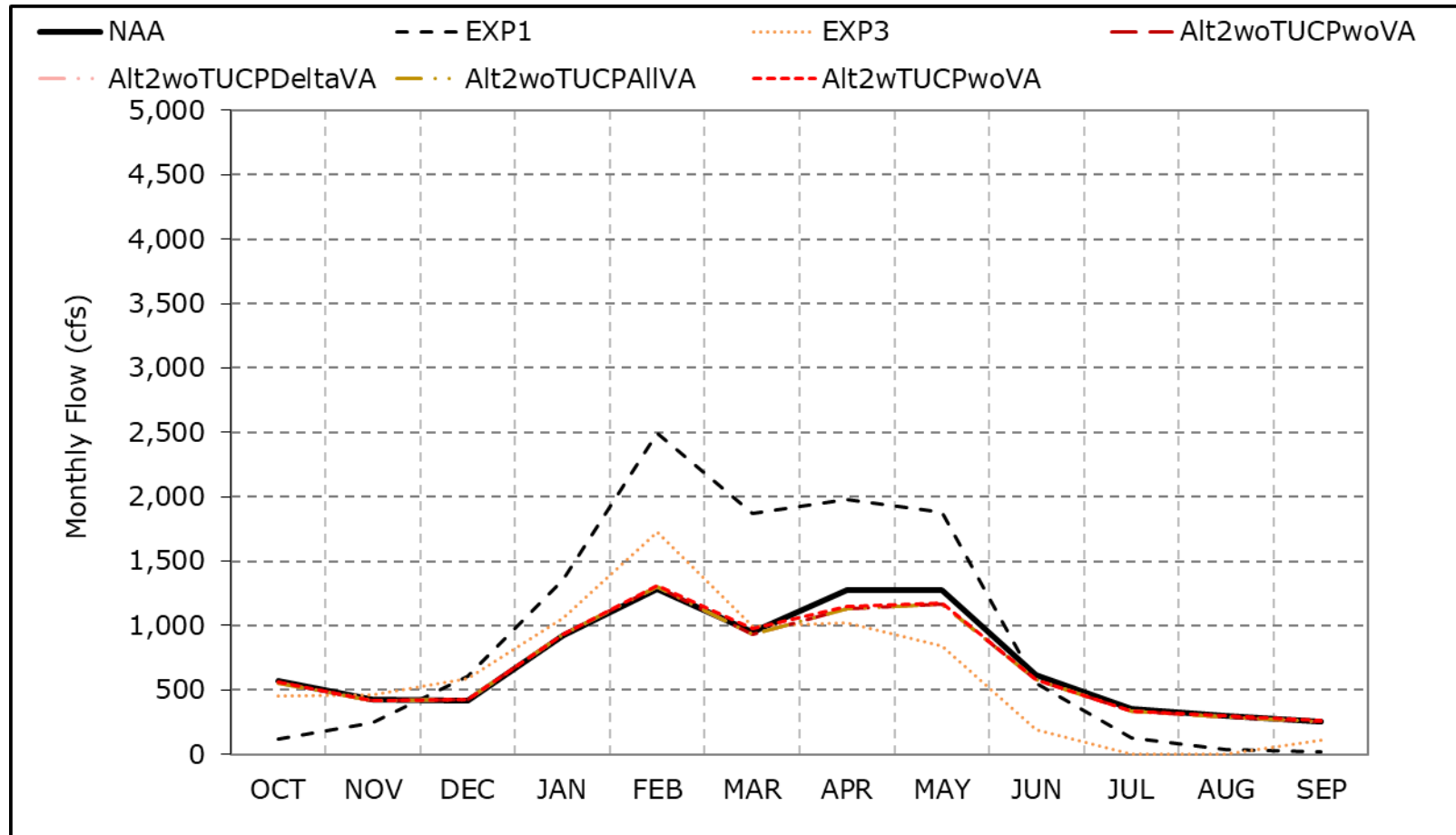


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-4. Stanislaus River Flow at Mouth, Below Normal Year Average Flow

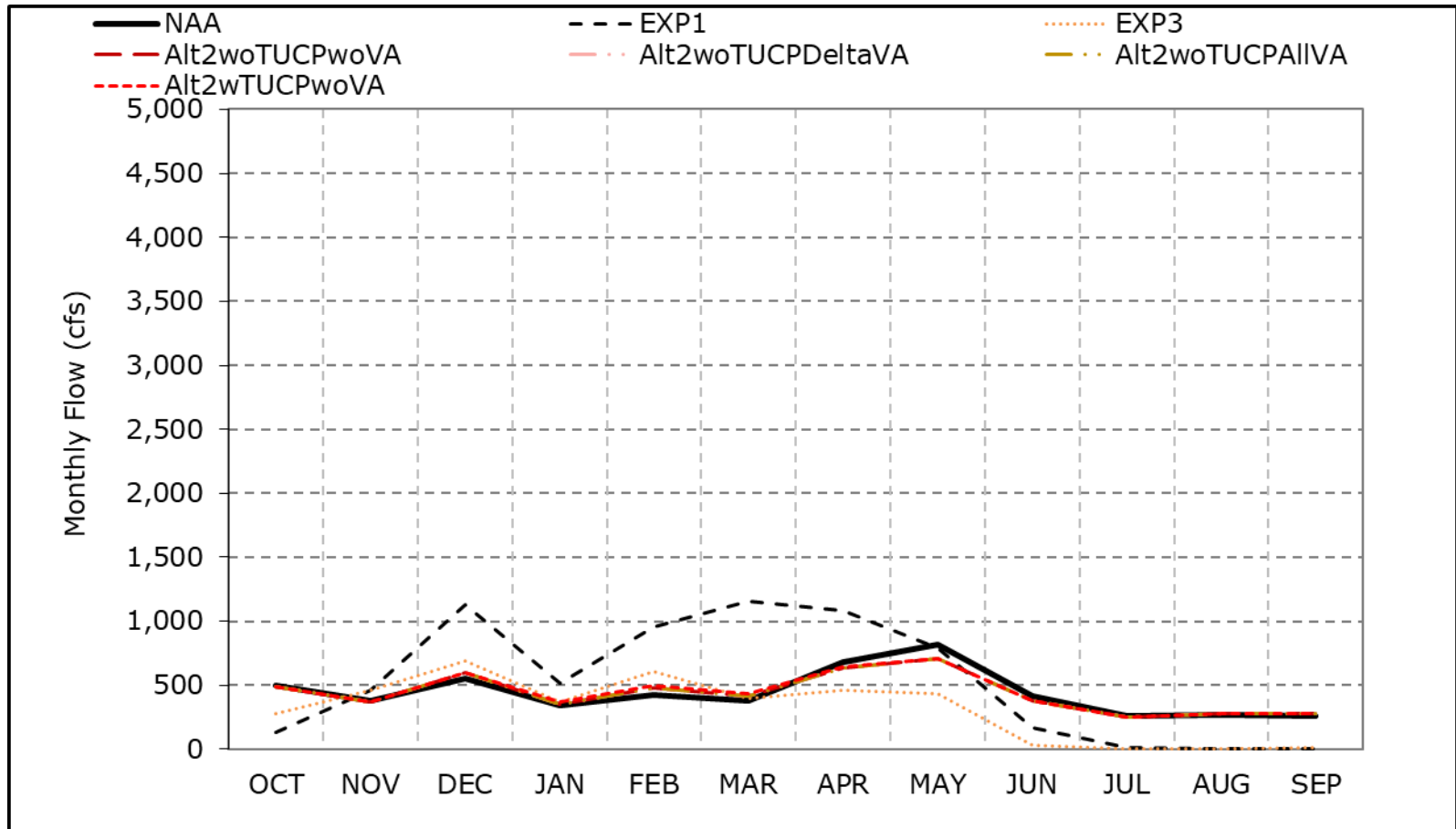


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-5. Stanislaus River Flow at Mouth, Dry Year Average Flow

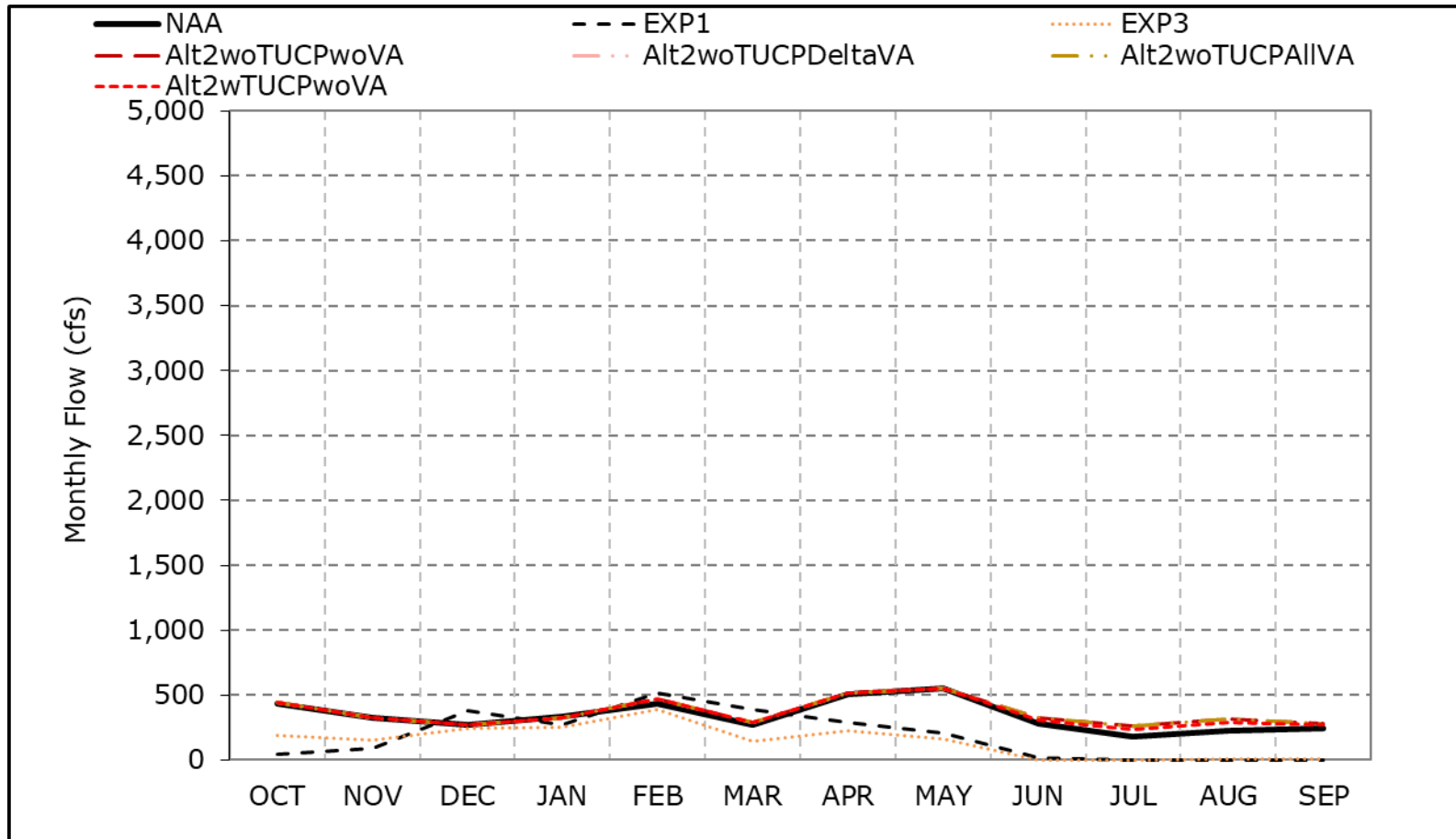


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-6. Stanislaus River Flow at Mouth, Critical Year Average Flow

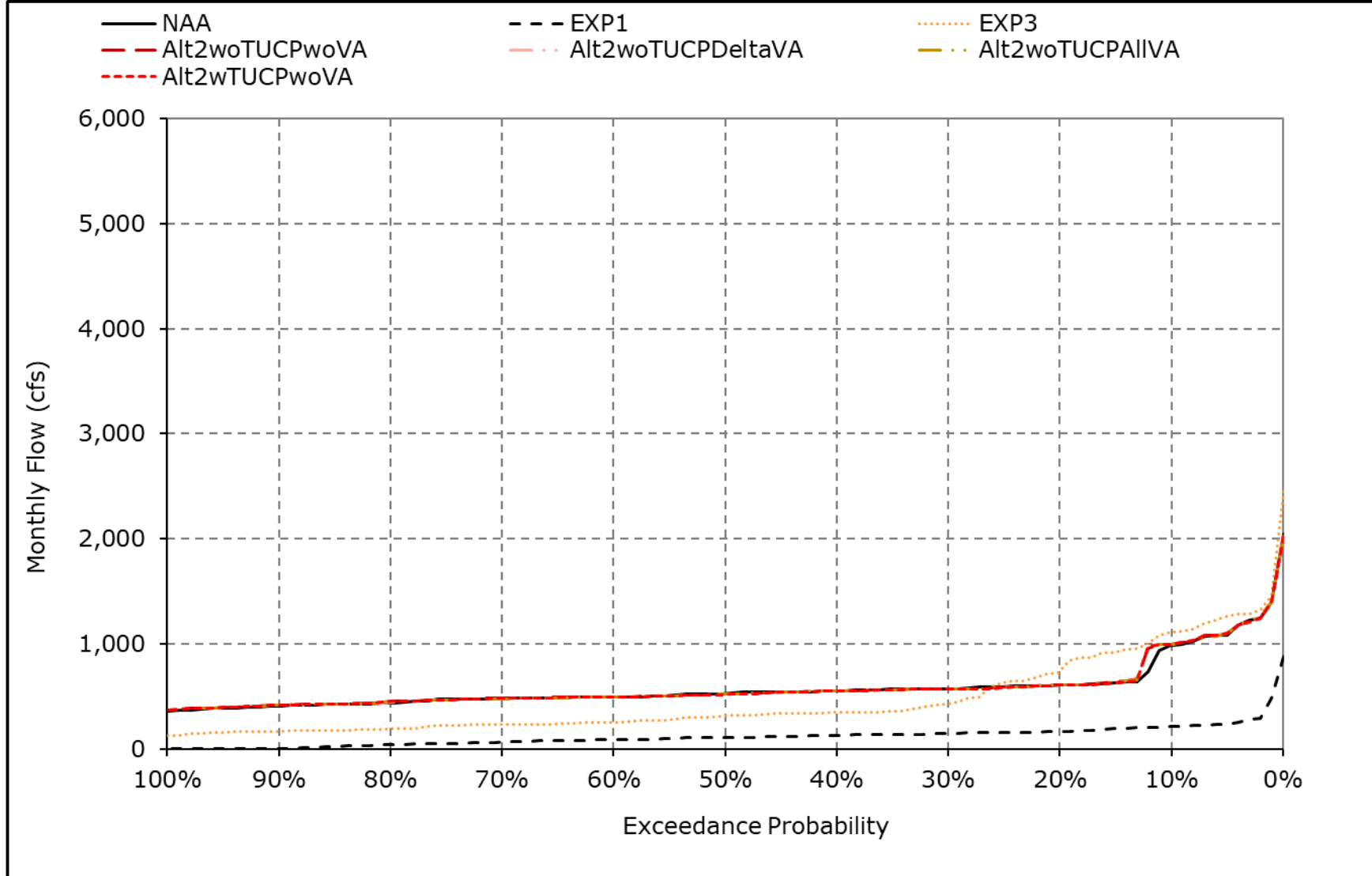


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

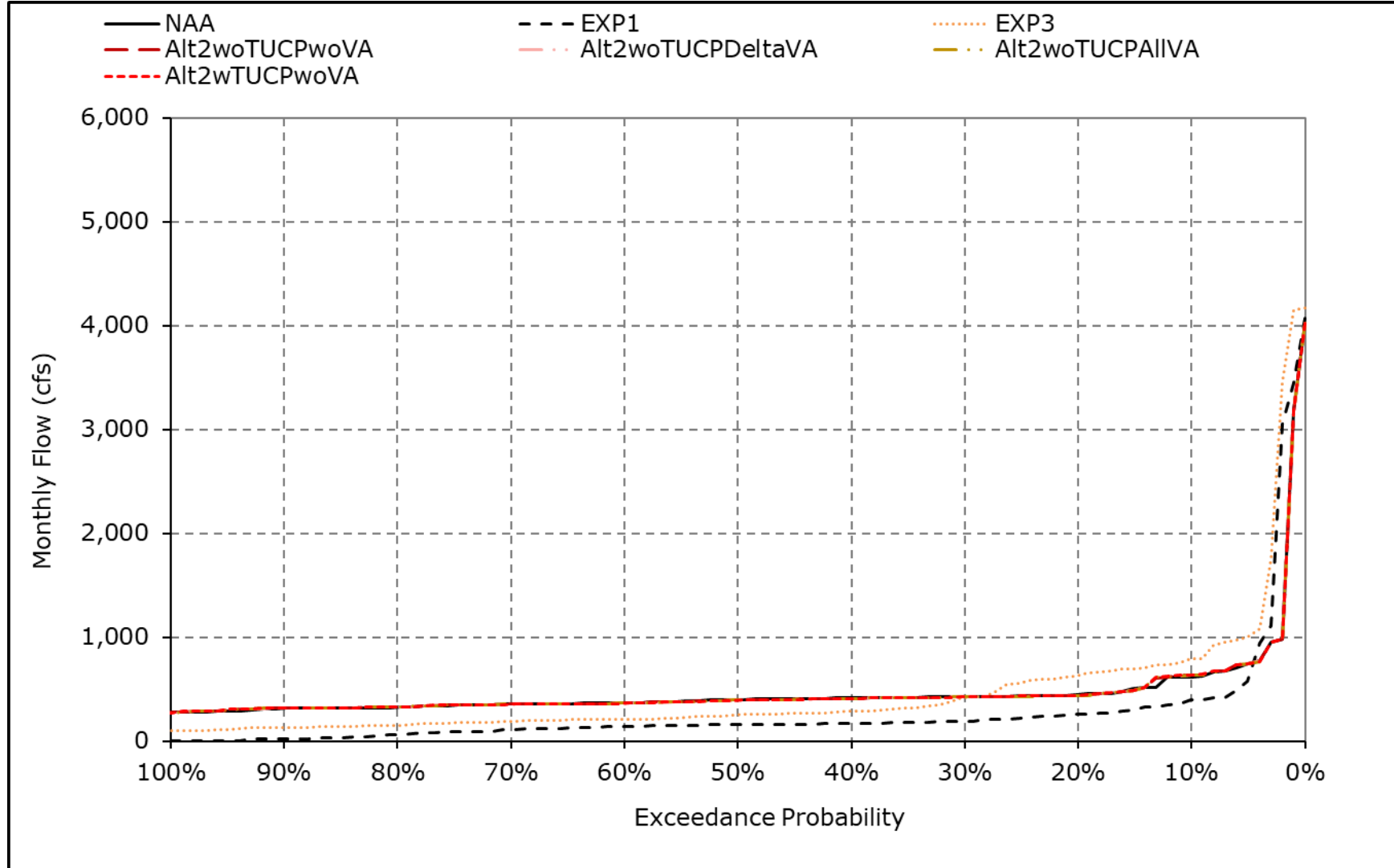
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-7. Stanislaus River Flow at Mouth, October



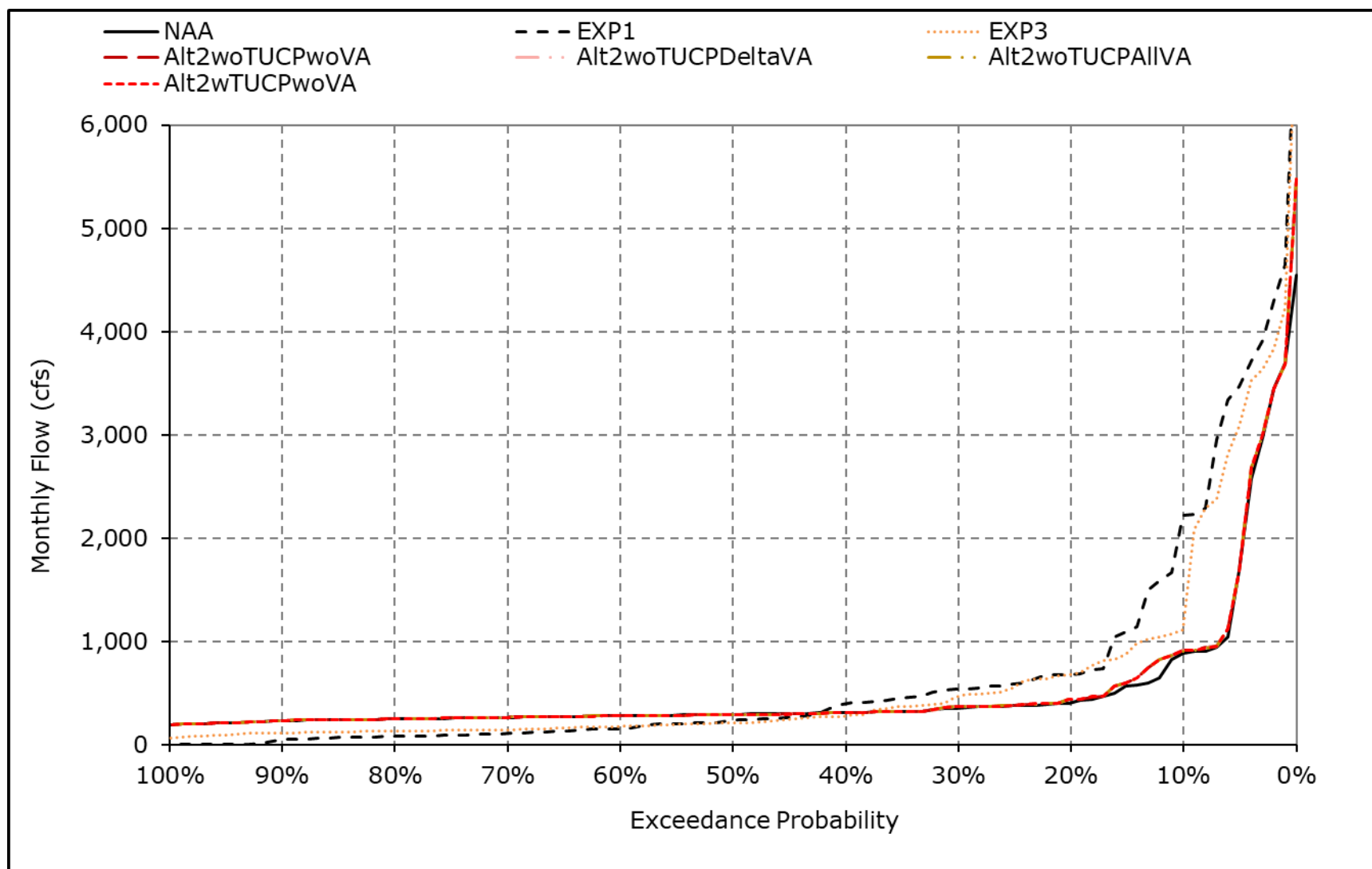
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-8. Stanislaus River Flow at Mouth, November



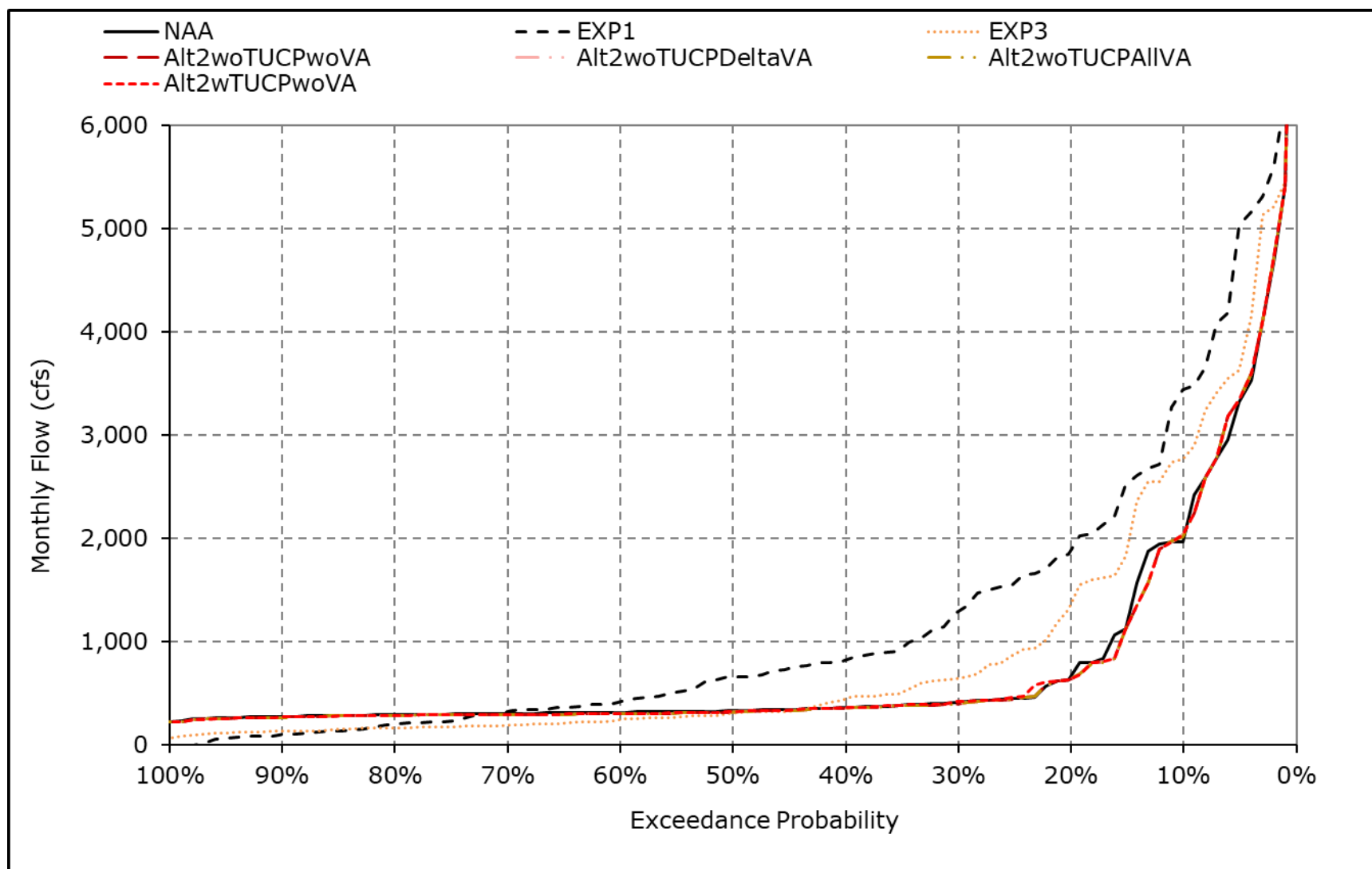
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-9. Stanislaus River Flow at Mouth, December



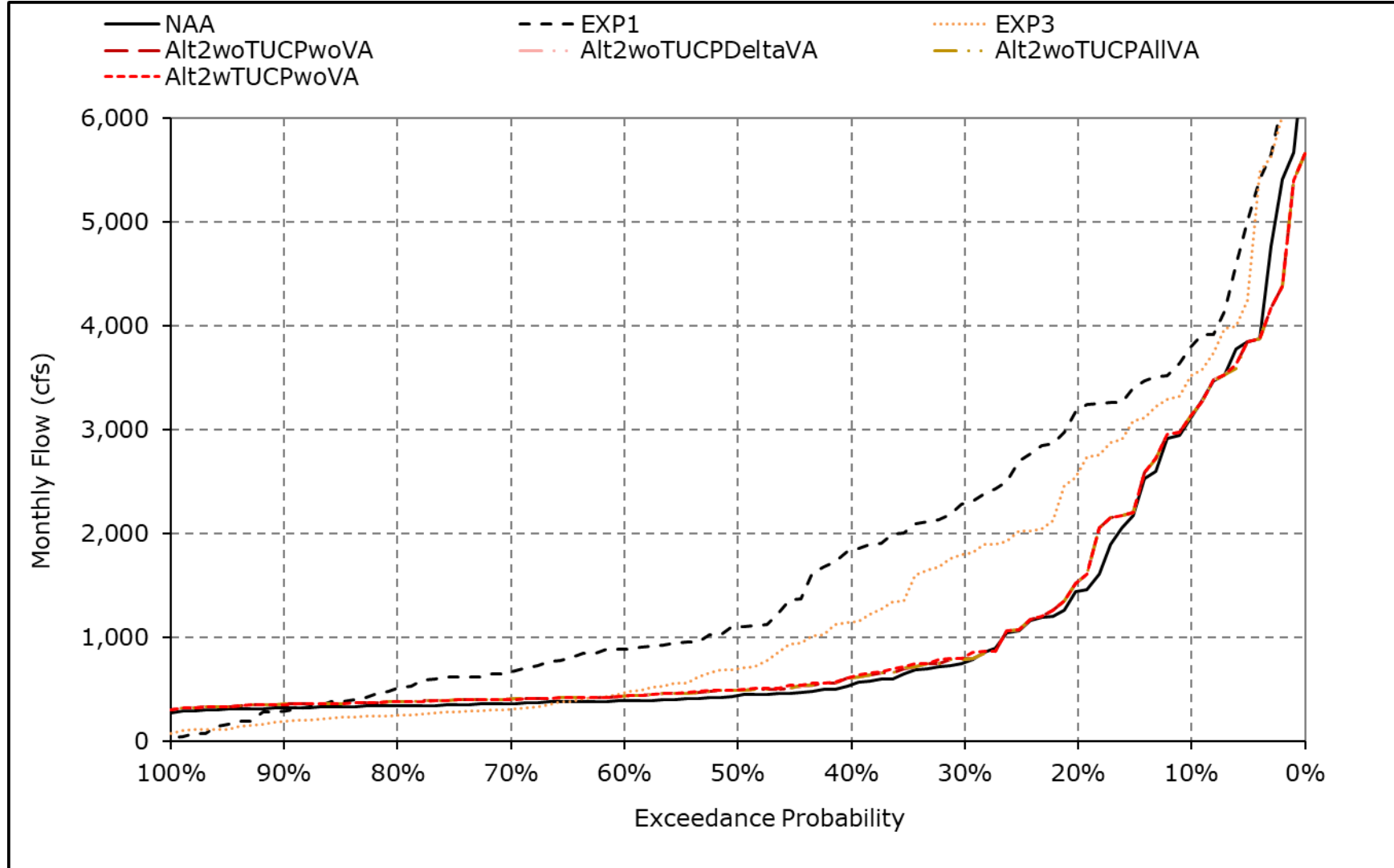
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-10. Stanislaus River Flow at Mouth, January



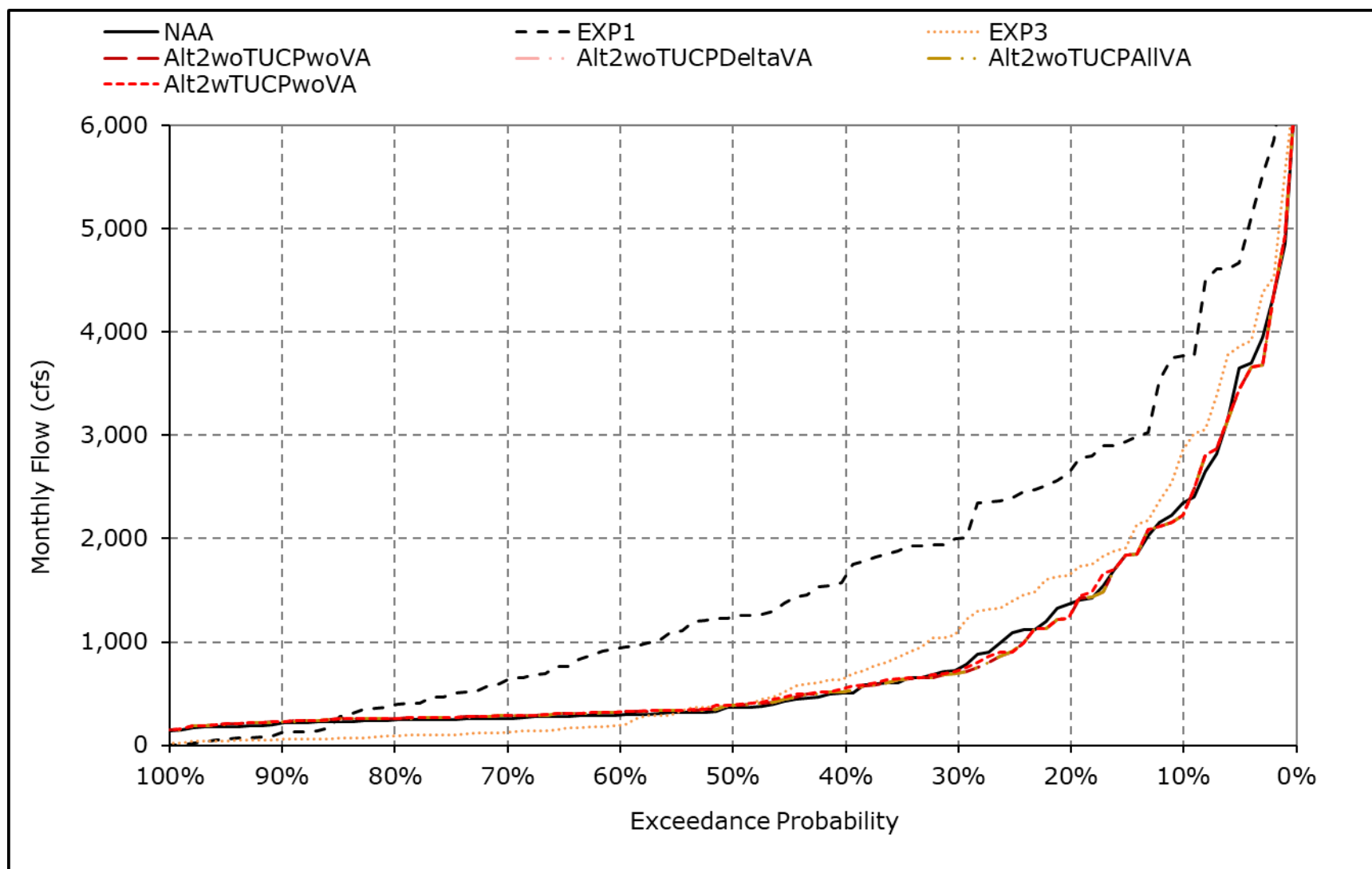
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-11. Stanislaus River Flow at Mouth, February



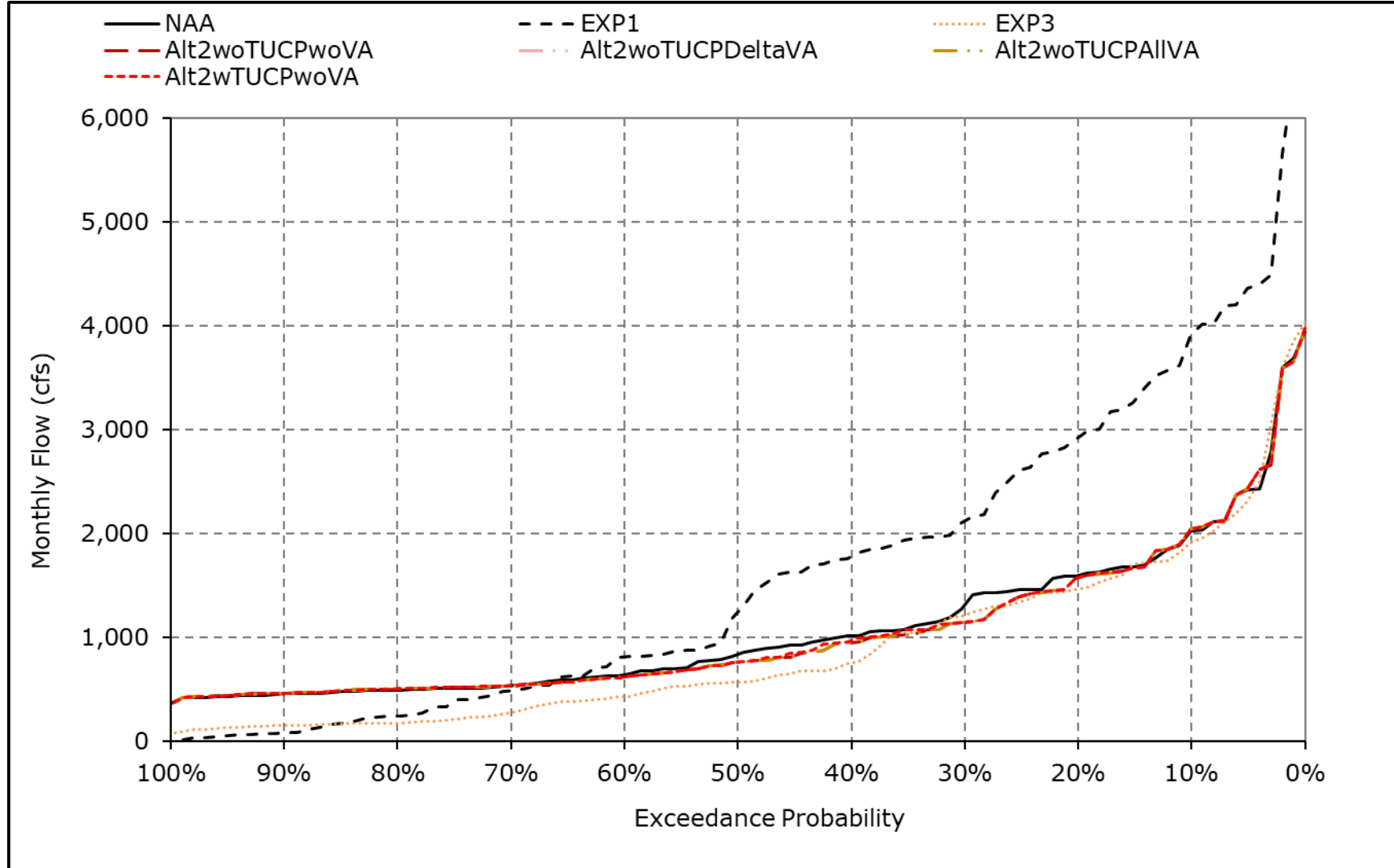
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-12. Stanislaus River Flow at Mouth, March



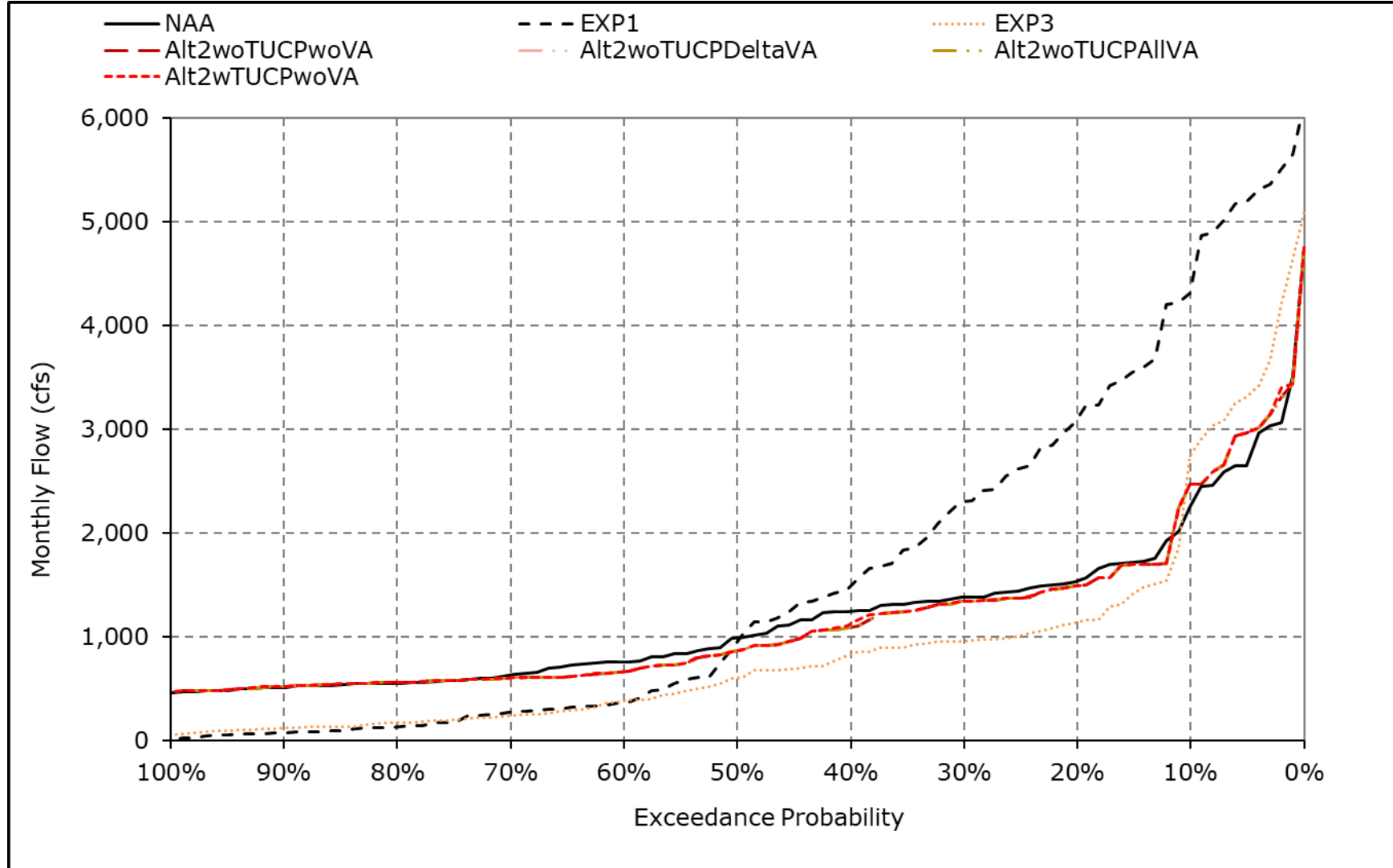
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-13. Stanislaus River Flow at Mouth, April



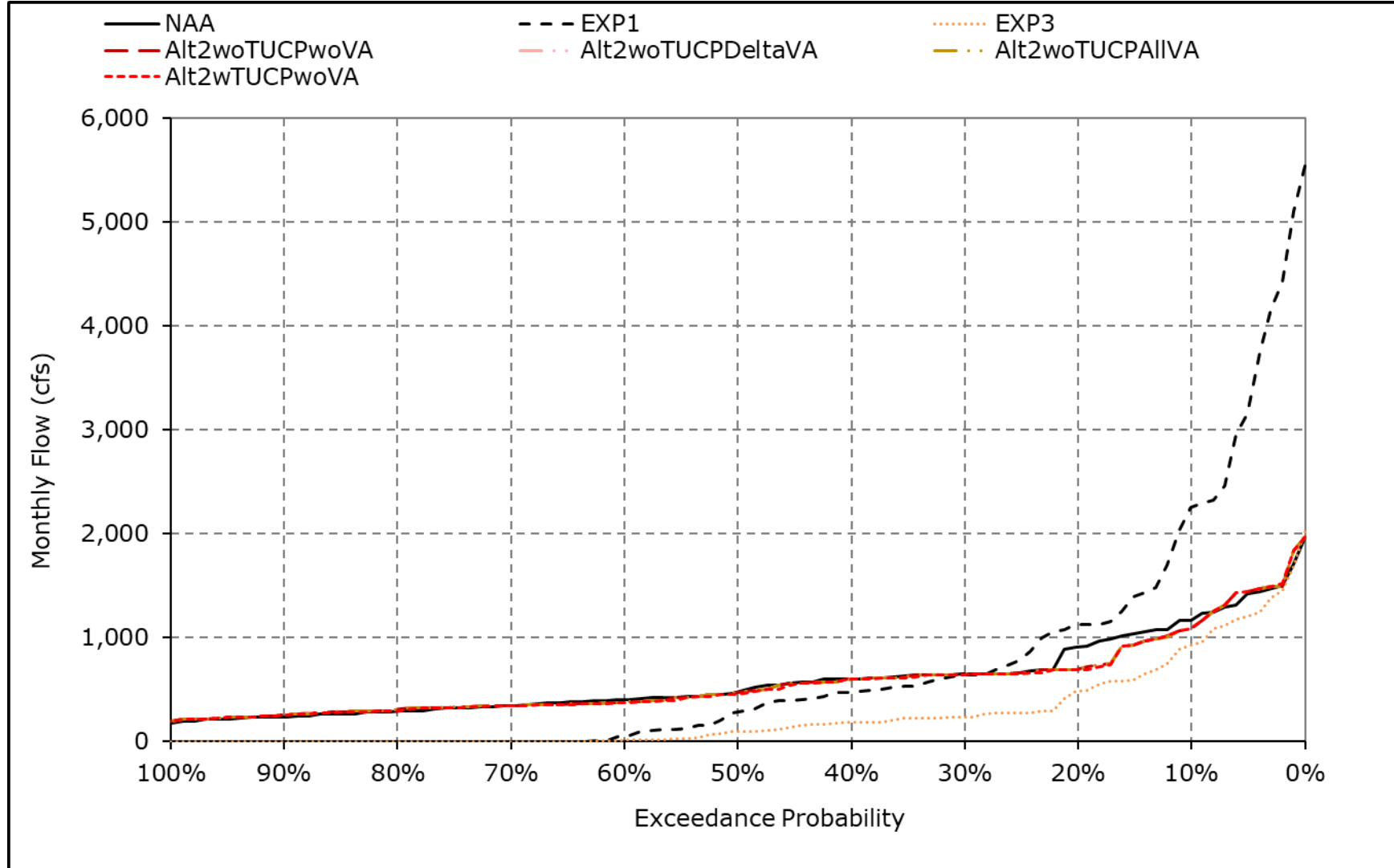
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-14. Stanislaus River Flow at Mouth, May



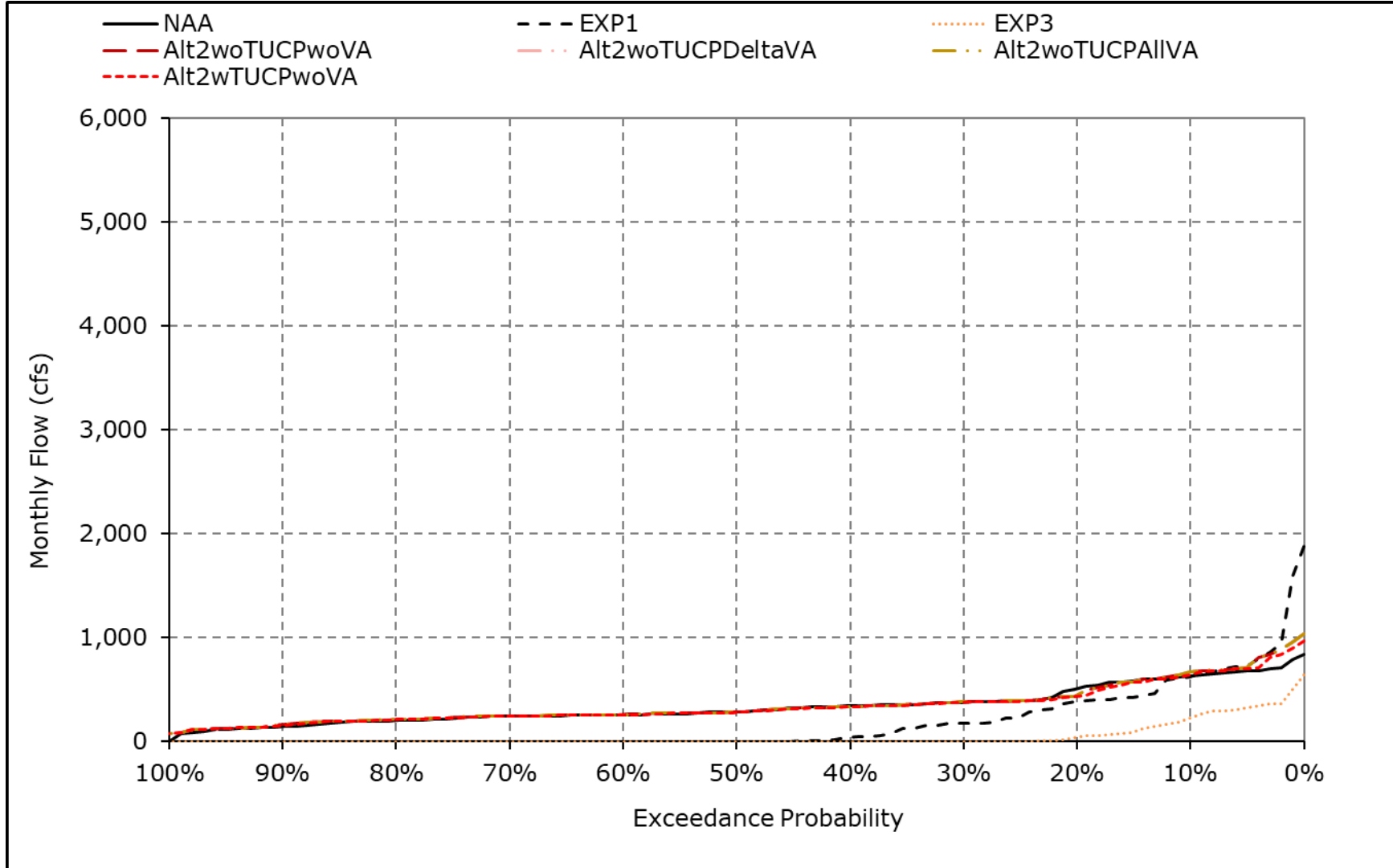
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-15. Stanislaus River Flow at Mouth, June



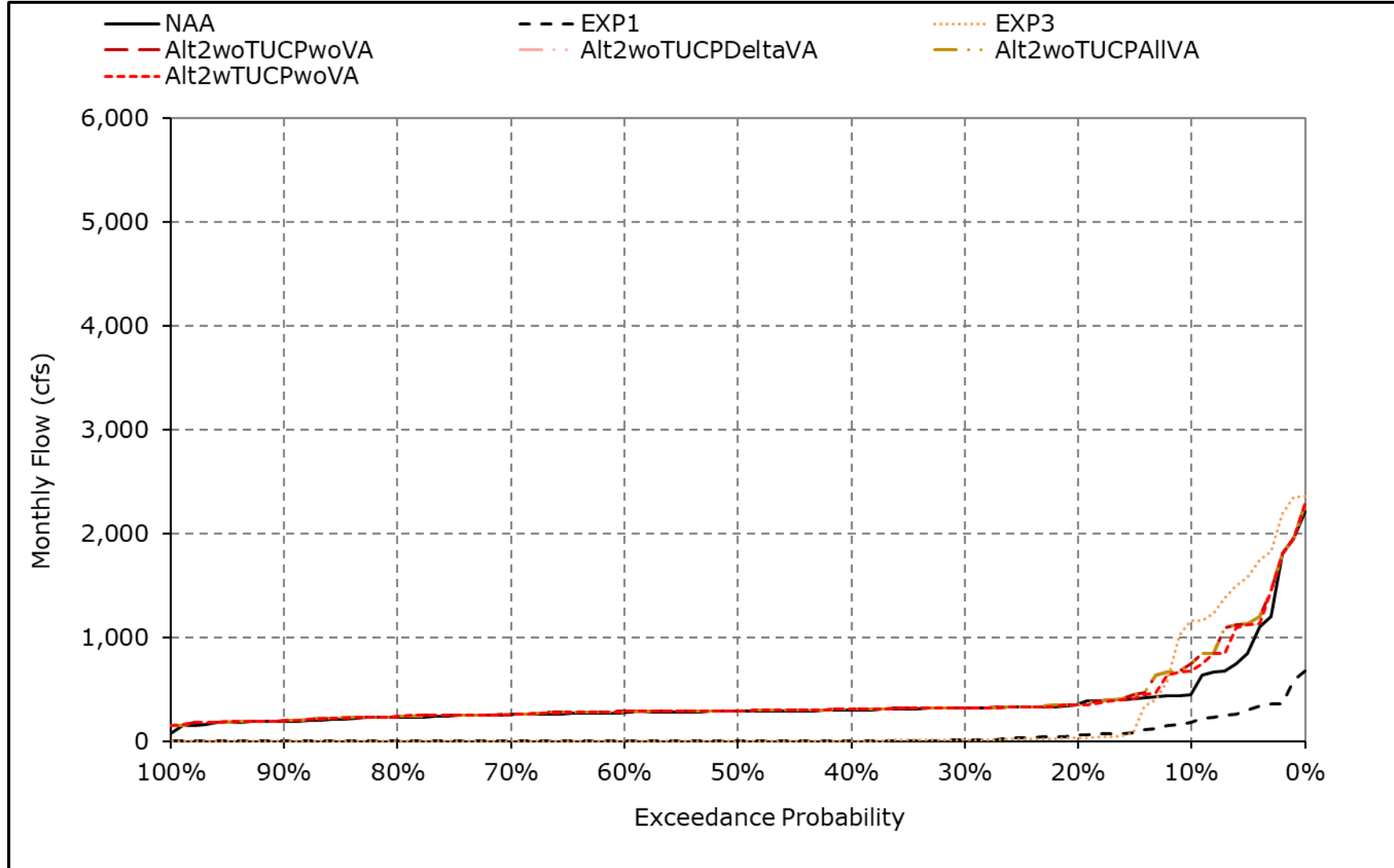
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-16. Stanislaus River Flow at Mouth, July



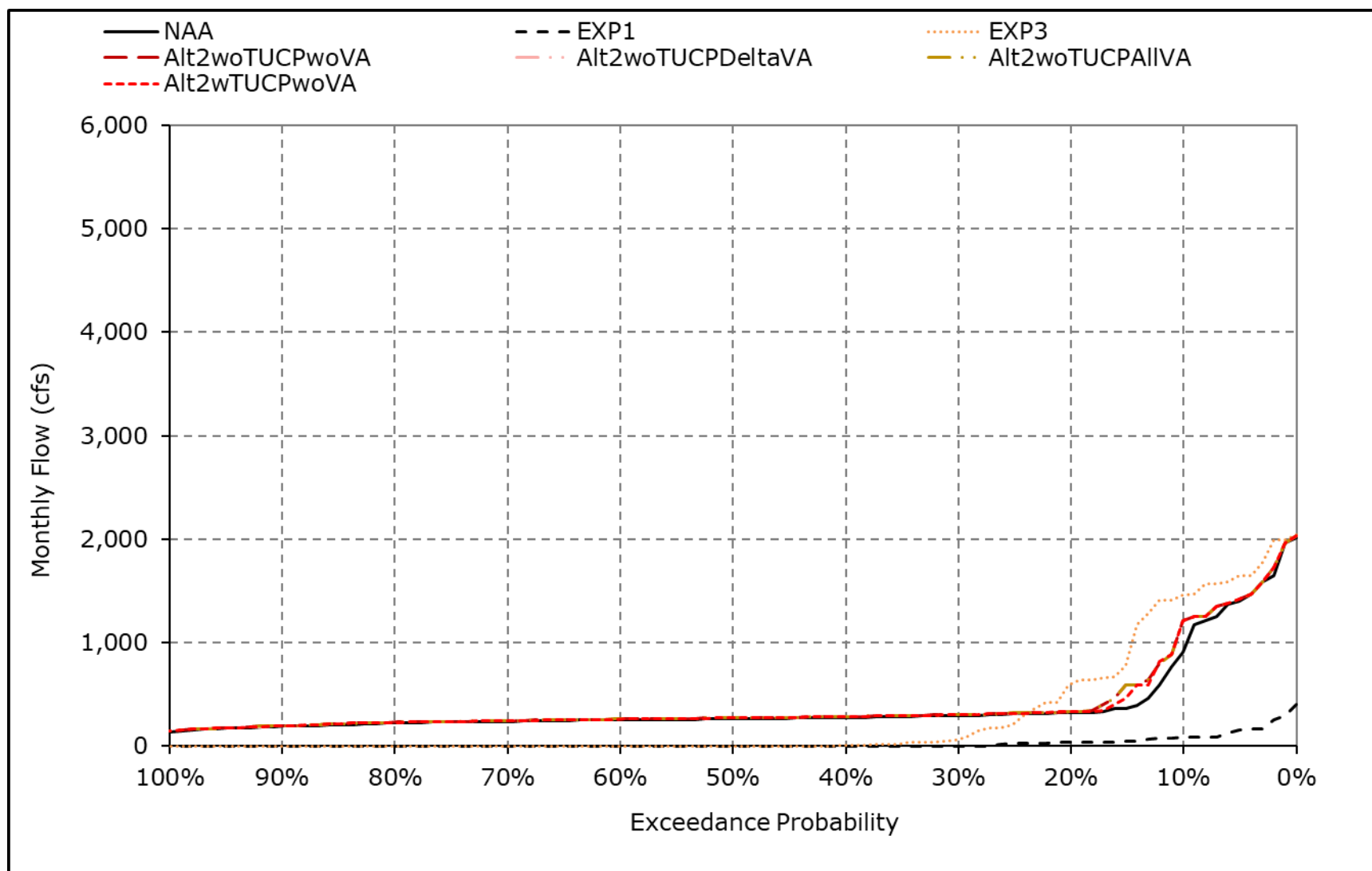
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-17. Stanislaus River Flow at Mouth, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-20-18. Stanislaus River Flow at Mouth, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-21-1a. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-1b. San Joaquin River at Vernalis, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,669	5,030	9,790	15,579	14,422	13,658	12,904	8,757	4,091	2,580	2,835
20% Exceedance	2,562	2,272	2,808	5,088	9,248	8,806	9,444	7,661	4,325	2,520	1,773	1,677
30% Exceedance	2,097	1,995	2,059	3,648	5,902	7,175	7,937	5,095	2,954	1,705	1,481	1,388
40% Exceedance	1,857	1,826	1,777	2,736	4,139	4,539	6,342	4,127	2,379	1,611	1,368	1,327
50% Exceedance	1,750	1,617	1,624	2,168	3,000	2,788	3,752	2,950	1,852	1,352	1,140	1,181
60% Exceedance	1,572	1,439	1,525	1,900	2,387	2,518	2,920	2,233	1,524	1,184	1,008	1,068
70% Exceedance	1,472	1,361	1,403	1,749	2,169	2,214	2,607	2,066	1,416	1,033	939	995
80% Exceedance	1,398	1,270	1,296	1,688	1,974	2,061	2,302	1,808	1,258	758	822	907
90% Exceedance	1,296	1,222	1,199	1,574	1,834	1,950	2,077	1,550	1,111	613	669	779
Full Simulation Period Average ^a	2,060	1,969	2,882	4,602	6,441	6,055	6,356	5,367	3,471	1,864	1,432	1,429
Wet Water Years (28%)	2,978	2,954	4,104	9,893	13,077	12,457	12,469	11,473	7,328	3,540	2,383	2,268
Above Normal Water Years (14%)	2,215	1,864	2,542	4,067	6,981	6,305	6,563	4,646	3,163	1,885	1,414	1,381
Below Normal Water Years (18%)	1,819	1,709	2,726	2,761	4,372	4,109	4,830	3,731	2,379	1,459	1,202	1,252
Dry Water Years (24%)	1,536	1,511	2,639	1,982	2,771	2,567	2,958	2,358	1,463	944	912	1,009
Critical Water Years (16%)	1,318	1,277	1,518	1,811	2,188	2,055	2,294	1,664	1,233	751	825	829

Table F.2.2-21-1c. San Joaquin River at Vernalis, Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	107	-2	6	54	213	-234	96	-22	-3	1	75	138
20% Exceedance	-36	27	11	0	95	13	-67	-5	-7	-152	72	20
30% Exceedance	1	-8	-1	75	27	41	-3	-62	-1	-1	32	1
40% Exceedance	-28	0	-4	-21	164	-67	-90	-44	2	-22	48	1
50% Exceedance	-28	3	-12	-9	11	-32	-36	-91	-7	90	39	-17
60% Exceedance	10	-20	-2	-16	5	20	7	-163	-52	29	16	33
70% Exceedance	3	5	5	-15	62	10	8	-24	38	41	27	42
80% Exceedance	1	3	26	0	19	10	6	-10	18	71	59	34
90% Exceedance	-12	12	-3	-12	44	16	0	-5	48	40	16	15
Full Simulation Period Average ^a	-1	0	19	-16	16	-8	-43	-46	-23	9	36	22
Wet Water Years (28%)	-4	-4	13	15	9	-42	-63	-8	-62	-37	8	5
Above Normal Water Years (14%)	-6	-12	-8	-143	-81	-27	-24	-63	-37	-14	2	14
Below Normal Water Years (18%)	-11	-10	4	23	60	5	-84	-130	-60	-27	19	37
Dry Water Years (24%)	-7	-3	54	-9	39	17	-34	-47	-24	-19	-13	-10
Critical Water Years (16%)	30	33	19	-11	27	18	7	0	104	191	209	91

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-2a. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-2b. San Joaquin River at Vernalis, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,382	2,668	5,032	9,808	15,578	14,430	13,662	12,914	8,756	4,090	2,579	2,834
20% Exceedance	2,558	2,267	2,807	5,091	9,252	8,805	9,458	7,857	4,322	2,516	1,756	1,676
30% Exceedance	2,096	1,995	2,059	3,651	5,894	7,175	7,935	5,095	2,954	1,706	1,479	1,388
40% Exceedance	1,857	1,825	1,778	2,737	4,142	4,536	6,420	4,124	2,379	1,609	1,371	1,329
50% Exceedance	1,742	1,616	1,624	2,168	3,001	2,886	3,848	2,960	1,854	1,354	1,137	1,182
60% Exceedance	1,557	1,446	1,530	1,898	2,447	2,591	2,946	2,230	1,525	1,183	1,005	1,066
70% Exceedance	1,472	1,359	1,405	1,750	2,168	2,333	2,682	2,075	1,415	1,034	941	978
80% Exceedance	1,405	1,266	1,305	1,697	1,987	2,136	2,308	1,806	1,278	760	827	909
90% Exceedance	1,312	1,228	1,211	1,576	1,851	2,019	2,162	1,573	1,105	606	669	794
Full Simulation Period Average ^a	2,058	1,968	2,882	4,602	6,449	6,103	6,387	5,378	3,474	1,864	1,431	1,430
Wet Water Years (28%)	2,977	2,954	4,105	9,893	13,073	12,460	12,479	11,473	7,329	3,539	2,382	2,268
Above Normal Water Years (14%)	2,211	1,864	2,543	4,067	6,981	6,315	6,582	4,653	3,165	1,887	1,411	1,378
Below Normal Water Years (18%)	1,817	1,708	2,723	2,762	4,380	4,170	4,862	3,766	2,380	1,459	1,201	1,253
Dry Water Years (24%)	1,526	1,505	2,638	1,982	2,789	2,660	3,021	2,368	1,469	945	912	1,010
Critical Water Years (16%)	1,332	1,284	1,521	1,810	2,208	2,133	2,321	1,673	1,237	750	825	836

Table F.2.2-21-2c. San Joaquin River at Vernalis, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	106	-3	8	72	212	-226	100	-12	-5	-1	74	137
20% Exceedance	-40	22	10	3	98	12	-53	190	-10	-156	55	20
30% Exceedance	0	-9	-2	77	20	41	-5	-63	0	1	30	1
40% Exceedance	-29	-2	-4	-20	167	-70	-11	-47	2	-25	51	2
50% Exceedance	-35	1	-13	-9	12	66	60	-80	-6	92	37	-15
60% Exceedance	-5	-13	3	-17	64	93	33	-167	-51	28	12	31
70% Exceedance	2	2	7	-14	61	130	84	-15	38	41	29	25
80% Exceedance	9	0	35	10	32	85	11	-12	37	73	63	36
90% Exceedance	4	18	9	-11	61	84	85	17	41	33	17	30
Full Simulation Period Average ^a	-3	-1	19	-16	24	40	-13	-35	-20	9	35	23
Wet Water Years (28%)	-5	-4	14	14	6	-39	-53	-8	-62	-38	7	5
Above Normal Water Years (14%)	-11	-12	-7	-143	-82	-17	-5	-56	-35	-13	-1	11
Below Normal Water Years (18%)	-12	-11	1	24	69	65	-52	-95	-59	-27	19	38
Dry Water Years (24%)	-16	-9	52	-9	57	111	29	-37	-17	-18	-14	-10
Critical Water Years (16%)	44	40	21	-11	46	95	34	9	109	190	209	98

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-3a. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-3b. San Joaquin River at Vernalis, Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,368	2,669	5,031	9,799	15,861	14,425	13,671	12,915	8,758	4,099	2,580	2,835
20% Exceedance	2,562	2,273	2,808	5,092	9,253	8,806	9,457	7,660	4,324	2,556	1,770	1,677
30% Exceedance	2,097	1,995	2,060	3,650	5,896	7,176	7,938	5,095	2,954	1,859	1,485	1,388
40% Exceedance	1,855	1,826	1,793	2,738	4,142	4,541	6,432	4,125	2,385	1,668	1,378	1,334
50% Exceedance	1,747	1,616	1,623	2,168	3,001	2,887	3,847	2,961	1,859	1,403	1,148	1,200
60% Exceedance	1,582	1,442	1,531	1,899	2,450	2,589	2,948	2,237	1,526	1,215	1,026	1,066
70% Exceedance	1,454	1,360	1,403	1,752	2,169	2,338	2,683	2,077	1,418	1,044	943	1,002
80% Exceedance	1,393	1,267	1,308	1,679	1,987	2,138	2,308	1,801	1,278	869	826	923
90% Exceedance	1,276	1,201	1,187	1,576	1,852	2,031	2,163	1,574	1,080	589	665	781
Full Simulation Period Average ^a	2,058	1,967	2,882	4,611	6,453	6,107	6,389	5,378	3,476	1,920	1,438	1,433
Wet Water Years (28%)	2,977	2,954	4,105	9,921	13,070	12,461	12,484	11,479	7,331	3,568	2,384	2,269
Above Normal Water Years (14%)	2,209	1,864	2,543	4,067	6,978	6,315	6,582	4,654	3,167	2,008	1,427	1,384
Below Normal Water Years (18%)	1,831	1,718	2,731	2,772	4,409	4,171	4,865	3,750	2,381	1,563	1,211	1,262
Dry Water Years (24%)	1,522	1,494	2,631	1,980	2,791	2,673	3,023	2,372	1,472	995	918	1,014
Critical Water Years (16%)	1,325	1,283	1,519	1,811	2,209	2,134	2,321	1,674	1,238	751	826	831

Table F.2.2-21-3c. San Joaquin River at Vernalis, Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92	-3	7	63	495	-231	109	-11	-3	9	75	138
20% Exceedance	-36	28	11	4	99	13	-54	-6	-8	-117	69	20
30% Exceedance	1	-9	-1	77	22	42	-2	-62	-1	154	36	0
40% Exceedance	-30	0	11	-19	168	-66	0	-46	9	35	58	8
50% Exceedance	-30	2	-13	-9	12	67	59	-80	-1	140	48	2
60% Exceedance	20	-17	3	-17	67	91	34	-159	-50	60	34	31
70% Exceedance	-15	3	5	-12	62	134	84	-13	40	51	31	49
80% Exceedance	-3	1	38	-9	32	87	12	-17	37	182	63	50
90% Exceedance	-31	-8	-15	-10	62	97	86	18	16	15	12	16
Full Simulation Period Average ^a	-3	-2	18	-7	28	44	-10	-35	-18	65	42	26
Wet Water Years (28%)	-5	-3	14	42	3	-38	-48	-2	-60	-10	10	6
Above Normal Water Years (14%)	-13	-13	-7	-144	-84	-17	-5	-55	-34	108	15	16
Below Normal Water Years (18%)	1	-2	9	33	97	67	-49	-112	-58	77	29	47
Dry Water Years (24%)	-21	-20	45	-12	59	123	31	-34	-14	32	-7	-5
Critical Water Years (16%)	37	39	20	-10	47	96	34	9	109	191	210	93

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-4a. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-4b. San Joaquin River at Vernalis, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,668	5,036	9,734	15,519	14,432	13,659	12,904	8,757	4,091	2,581	2,835
20% Exceedance	2,563	2,272	2,808	5,096	9,256	8,808	9,451	7,676	4,325	2,516	1,678	1,678
30% Exceedance	2,097	1,997	2,060	3,650	5,903	7,223	7,938	5,097	2,956	1,709	1,475	1,391
40% Exceedance	1,861	1,828	1,792	2,747	4,140	4,543	6,343	4,128	2,380	1,612	1,367	1,330
50% Exceedance	1,754	1,614	1,625	2,189	3,020	2,814	3,755	2,959	1,837	1,334	1,140	1,163
60% Exceedance	1,575	1,439	1,522	1,900	2,387	2,518	2,922	2,234	1,515	1,167	1,003	1,066
70% Exceedance	1,452	1,358	1,395	1,750	2,169	2,217	2,607	2,068	1,408	1,011	934	974
80% Exceedance	1,394	1,268	1,308	1,680	1,970	2,062	2,302	1,809	1,259	702	792	903
90% Exceedance	1,314	1,208	1,203	1,574	1,837	1,951	2,078	1,549	1,112	584	650	811
Full Simulation Period Average ^a	2,061	1,967	2,882	4,606	6,444	6,066	6,363	5,372	3,468	1,855	1,422	1,430
Wet Water Years (28%)	2,979	2,956	4,106	9,894	13,077	12,484	12,489	11,484	7,332	3,542	2,384	2,270
Above Normal Water Years (14%)	2,221	1,867	2,543	4,092	7,003	6,325	6,568	4,649	3,166	1,887	1,416	1,385
Below Normal Water Years (18%)	1,829	1,719	2,730	2,766	4,371	4,110	4,833	3,739	2,387	1,469	1,211	1,260
Dry Water Years (24%)	1,528	1,504	2,636	1,982	2,771	2,568	2,959	2,360	1,465	947	915	1,015
Critical Water Years (16%)	1,322	1,262	1,511	1,805	2,187	2,055	2,294	1,664	1,191	672	741	811

Table F.2.2-21-4c. San Joaquin River at Vernalis, Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	107	-3	12	-3	153	-223	98	-22	-3	1	76	138
20% Exceedance	-35	27	11	8	103	14	-60	9	-7	-156	-23	21
30% Exceedance	1	-7	-1	77	28	89	-2	-61	1	4	26	3
40% Exceedance	-25	2	11	-10	165	-64	-88	-43	4	-22	47	4
50% Exceedance	-23	0	-12	12	31	-6	-33	-81	-22	72	40	-34
60% Exceedance	13	-20	-5	-15	4	20	8	-163	-61	11	10	30
70% Exceedance	-18	1	-3	-14	62	13	9	-22	30	19	22	21
80% Exceedance	-3	1	37	-8	15	11	6	-9	18	15	28	30
90% Exceedance	7	-1	1	-12	47	17	1	-7	48	11	-2	46
Full Simulation Period Average ^a	1	-2	19	-12	18	3	-36	-41	-26	-1	25	23
Wet Water Years (28%)	-3	-2	15	15	9	-15	-43	3	-59	-35	9	7
Above Normal Water Years (14%)	-1	-10	-6	-118	-60	-7	-19	-61	-35	-13	4	18
Below Normal Water Years (18%)	-1	-1	8	28	60	6	-81	-123	-52	-17	28	45
Dry Water Years (24%)	-15	-10	51	-9	39	18	-33	-45	-21	-16	-11	-4
Critical Water Years (16%)	34	19	12	-16	26	17	7	0	62	113	124	73

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-5a. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-5b. San Joaquin River at Vernalis, EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,388	2,695	5,207	11,134	16,569	15,652	14,902	16,138	11,135	3,241	2,771	2,919
20% Exceedance	2,611	2,167	2,547	5,108	11,929	10,597	9,357	8,668	4,976	2,087	1,263	1,716
30% Exceedance	1,811	1,925	2,001	3,727	7,535	8,305	6,654	4,926	2,621	1,219	871	1,064
40% Exceedance	1,533	1,605	1,718	2,576	5,128	5,083	5,269	3,816	1,958	1,144	753	864
50% Exceedance	1,275	1,412	1,437	2,048	3,141	2,795	3,130	2,563	1,345	853	675	667
60% Exceedance	1,146	1,211	1,301	1,870	2,260	2,357	2,356	1,874	1,073	691	602	597
70% Exceedance	1,052	1,065	1,156	1,608	2,009	2,084	2,042	1,616	981	581	534	558
80% Exceedance	1,004	982	1,051	1,482	1,787	1,804	1,832	1,369	923	513	489	512
90% Exceedance	943	925	933	1,278	1,472	1,634	1,656	1,177	836	456	408	441
Full Simulation Period Average^a	1,815	1,895	2,872	4,723	7,227	6,670	6,108	5,573	3,557	1,525	1,118	1,191
Wet Water Years (28%)	2,971	3,119	4,189	10,356	15,454	14,449	13,067	12,727	8,361	3,278	2,280	2,327
Above Normal Water Years (14%)	1,930	1,761	2,462	4,444	7,717	6,840	5,880	4,603	2,947	1,341	872	1,115
Below Normal Water Years (18%)	1,546	1,521	2,744	2,864	4,728	4,333	4,300	3,726	2,142	997	830	912
Dry Water Years (24%)	1,114	1,391	2,696	1,806	2,780	2,492	2,357	2,016	1,109	645	559	582
Critical Water Years (16%)	992	999	1,260	1,577	1,882	1,805	1,792	1,314	948	533	461	498

Table F.2.2-21-5c. San Joaquin River at Vernalis, EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	112	23	183	1,398	1,203	997	1,341	3,212	2,374	-850	266	222
20% Exceedance	13	-77	-250	20	2,775	1,804	-154	1,001	644	-586	-438	59
30% Exceedance	-284	-78	-60	154	1,661	1,171	-1,286	-231	-333	-487	-578	-323
40% Exceedance	-352	-221	-64	-181	1,154	477	-1,163	-356	-419	-489	-567	-463
50% Exceedance	-502	-202	-199	-129	152	-25	-658	-477	-515	-409	-425	-531
60% Exceedance	-416	-248	-227	-46	-123	-141	-558	-522	-503	-464	-390	-438
70% Exceedance	-418	-291	-242	-156	-98	-120	-556	-474	-397	-412	-378	-395
80% Exceedance	-392	-285	-220	-205	-167	-247	-465	-450	-318	-175	-275	-361
90% Exceedance	-364	-285	-269	-308	-318	-300	-421	-378	-228	-117	-244	-324
Full Simulation Period Average^a	-245	-74	9	105	801	607	-291	160	63	-331	-279	-215
Wet Water Years (28%)	-11	162	97	477	2,386	1,950	535	1,246	971	-300	-95	64
Above Normal Water Years (14%)	-292	-116	-87	234	654	508	-707	-106	-253	-559	-540	-252
Below Normal Water Years (18%)	-284	-198	23	126	416	229	-614	-136	-297	-489	-353	-303
Dry Water Years (24%)	-429	-123	110	-186	48	-58	-635	-390	-377	-318	-367	-438
Critical Water Years (16%)	-297	-245	-239	-244	-279	-233	-495	-350	-181	-27	-155	-240

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-6a. San Joaquin River at Vernalis, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (28%)	2,058	2,606	4,041	11,755	15,787	15,389	14,629	15,230	10,654	3,656	1,656	1,377
Above Normal Water Years (14%)	1,513	1,496	2,553	5,308	8,519	8,160	6,779	6,257	4,134	1,536	893	963
Below Normal Water Years (18%)	1,174	1,302	3,181	2,996	5,235	5,332	5,376	4,786	2,616	1,008	682	684
Dry Water Years (24%)	894	1,338	3,254	1,868	3,259	3,103	3,047	2,508	1,241	611	488	500
Critical Water Years (16%)	742	815	1,118	1,520	2,129	1,984	1,828	1,441	979	490	417	442

Table F.2.2-21-6b. San Joaquin River at Vernalis, Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,669	5,030	9,790	15,579	14,422	13,658	12,904	8,757	4,091	2,580	2,835
20% Exceedance	2,562	2,272	2,808	5,088	9,248	8,806	9,444	7,661	4,325	2,520	1,773	1,677
30% Exceedance	2,097	1,995	2,059	3,648	5,902	7,175	7,937	5,095	2,954	1,705	1,481	1,388
40% Exceedance	1,857	1,826	1,777	2,736	4,139	4,539	6,342	4,127	2,379	1,611	1,368	1,327
50% Exceedance	1,750	1,617	1,624	2,168	3,000	2,788	3,752	2,950	1,852	1,352	1,140	1,181
60% Exceedance	1,572	1,439	1,525	1,900	2,387	2,518	2,920	2,233	1,524	1,184	1,008	1,068
70% Exceedance	1,472	1,361	1,403	1,749	2,169	2,214	2,607	2,066	1,416	1,033	939	995
80% Exceedance	1,398	1,270	1,296	1,688	1,974	2,061	2,302	1,808	1,258	758	822	907
90% Exceedance	1,296	1,222	1,199	1,574	1,834	1,950	2,077	1,550	1,111	613	669	779
Full Simulation Period Average ^a	2,060	1,969	2,882	4,602	6,441	6,055	6,356	5,367	3,471	1,864	1,432	1,429
Wet Water Years (28%)	2,978	2,954	4,104	9,893	13,077	12,457	12,469	11,473	7,328	3,540	2,383	2,268
Above Normal Water Years (14%)	2,215	1,864	2,542	4,067	6,981	6,305	6,563	4,646	3,163	1,885	1,414	1,381
Below Normal Water Years (18%)	1,819	1,709	2,726	2,761	4,372	4,109	4,830	3,731	2,379	1,459	1,202	1,252
Dry Water Years (24%)	1,536	1,511	2,639	1,982	2,771	2,567	2,958	2,358	1,463	944	912	1,009
Critical Water Years (16%)	1,318	1,277	1,518	1,811	2,188	2,055	2,294	1,664	1,233	751	825	829

Table F.2.2-21-6c. San Joaquin River at Vernalis, Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,175	401	-772	-3,561	-3,059	-3,169	-2,676	-6,017	-4,961	480	777	1,406
20% Exceedance	813	551	-467	-2,264	-2,221	-3,238	-1,000	-3,774	-2,356	292	512	546
30% Exceedance	742	515	-36	-774	-2,969	-2,178	-373	-1,904	-314	327	626	606
40% Exceedance	655	474	124	-56	-1,875	-1,841	39	-1,018	44	520	672	645
50% Exceedance	758	438	217	-57	-716	-1,150	-1,159	-171	390	624	534	622
60% Exceedance	647	424	318	-89	-151	-631	98	14	365	605	505	549
70% Exceedance	632	423	305	3	-141	-388	364	463	451	502	477	494
80% Exceedance	616	421	396	195	-41	-61	419	461	425	333	406	465
90% Exceedance	623	439	424	384	189	132	471	452	333	223	326	398
Full Simulation Period Average ^a	719	337	-153	-663	-1,237	-1,418	-680	-1,468	-1,016	219	537	595
Wet Water Years (28%)	919	348	63	-1,861	-2,710	-2,931	-2,161	-3,757	-3,326	-115	727	891
Above Normal Water Years (14%)	702	368	-11	-1,241	-1,537	-1,854	-216	-1,611	-971	349	521	418
Below Normal Water Years (18%)	645	407	-455	-235	-863	-1,223	-547	-1,055	-237	451	520	568
Dry Water Years (24%)	641	174	-615	115	-488	-536	-89	-150	222	333	424	509
Critical Water Years (16%)	576	461	400	291	59	71	466	223	254	261	408	387

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-7a. San Joaquin River at Vernalis, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (28%)	2,058	2,606	4,041	11,755	15,787	15,389	14,629	15,230	10,654	3,656	1,656	1,377
Above Normal Water Years (14%)	1,513	1,496	2,553	5,308	8,519	8,160	6,779	6,257	4,134	1,536	893	963
Below Normal Water Years (18%)	1,174	1,302	3,181	2,996	5,235	5,332	5,376	4,786	2,616	1,008	682	684
Dry Water Years (24%)	894	1,338	3,254	1,868	3,259	3,103	3,047	2,508	1,241	611	488	500
Critical Water Years (16%)	742	815	1,118	1,520	2,129	1,984	1,828	1,441	979	490	417	442

Table F.2.2-21-7b. San Joaquin River at Vernalis, Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,382	2,668	5,032	9,808	15,578	14,430	13,662	12,914	8,756	4,090	2,579	2,834
20% Exceedance	2,558	2,267	2,807	5,091	9,252	8,805	9,458	7,857	4,322	2,516	1,756	1,676
30% Exceedance	2,096	1,995	2,059	3,651	5,894	7,175	7,935	5,095	2,954	1,706	1,479	1,388
40% Exceedance	1,857	1,825	1,778	2,737	4,142	4,536	6,420	4,124	2,379	1,609	1,371	1,329
50% Exceedance	1,742	1,616	1,624	2,168	3,001	2,886	3,848	2,960	1,854	1,354	1,137	1,182
60% Exceedance	1,557	1,446	1,530	1,898	2,447	2,591	2,946	2,230	1,525	1,183	1,005	1,066
70% Exceedance	1,472	1,359	1,405	1,750	2,168	2,333	2,682	2,075	1,415	1,034	941	978
80% Exceedance	1,405	1,266	1,305	1,697	1,987	2,136	2,308	1,806	1,278	760	827	909
90% Exceedance	1,312	1,228	1,211	1,576	1,851	2,019	2,162	1,573	1,105	606	669	794
Full Simulation Period Average ^a	2,058	1,968	2,882	4,602	6,449	6,103	6,387	5,378	3,474	1,864	1,431	1,430
Wet Water Years (28%)	2,977	2,954	4,105	9,893	13,073	12,460	12,479	11,473	7,329	3,539	2,382	2,268
Above Normal Water Years (14%)	2,211	1,864	2,543	4,067	6,981	6,315	6,582	4,653	3,165	1,887	1,411	1,378
Below Normal Water Years (18%)	1,817	1,708	2,723	2,762	4,380	4,170	4,862	3,766	2,380	1,459	1,201	1,253
Dry Water Years (24%)	1,526	1,505	2,638	1,982	2,789	2,660	3,021	2,368	1,469	945	912	1,010
Critical Water Years (16%)	1,332	1,284	1,521	1,810	2,208	2,133	2,321	1,673	1,237	750	825	836

Table F.2.2-21-7c. San Joaquin River at Vernalis, Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,174	401	-770	-3,543	-3,060	-3,160	-2,672	-6,007	-4,963	479	776	1,405
20% Exceedance	810	546	-468	-2,261	-2,217	-3,240	-987	-3,579	-2,359	288	494	545
30% Exceedance	741	515	-37	-771	-2,977	-2,178	-375	-1,904	-313	328	624	606
40% Exceedance	654	472	125	-55	-1,873	-1,843	118	-1,021	45	517	675	646
50% Exceedance	751	436	216	-57	-715	-1,052	-1,063	-161	391	626	531	624
60% Exceedance	632	430	323	-91	-92	-558	124	10	366	605	501	548
70% Exceedance	631	421	306	3	-143	-269	440	472	450	502	479	477
80% Exceedance	624	417	405	204	-28	14	425	459	445	335	410	467
90% Exceedance	639	445	435	385	206	200	556	475	327	216	326	413
Full Simulation Period Average ^a	718	336	-154	-663	-1,229	-1,370	-650	-1,456	-1,013	219	536	595
Wet Water Years (28%)	918	348	64	-1,862	-2,714	-2,929	-2,151	-3,757	-3,325	-117	726	891
Above Normal Water Years (14%)	698	368	-11	-1,242	-1,538	-1,844	-198	-1,604	-969	351	517	415
Below Normal Water Years (18%)	643	406	-458	-233	-854	-1,162	-515	-1,020	-236	450	520	569
Dry Water Years (24%)	632	168	-616	115	-470	-443	-26	-140	228	334	424	510
Critical Water Years (16%)	590	469	402	290	78	148	493	232	258	260	408	394

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-8a. San Joaquin River at Vernalis, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (28%)	2,058	2,606	4,041	11,755	15,787	15,389	14,629	15,230	10,654	3,656	1,656	1,377
Above Normal Water Years (14%)	1,513	1,496	2,553	5,308	8,519	8,160	6,779	6,257	4,134	1,536	893	963
Below Normal Water Years (18%)	1,174	1,302	3,181	2,996	5,235	5,332	5,376	4,786	2,616	1,008	682	684
Dry Water Years (24%)	894	1,338	3,254	1,868	3,259	3,103	3,047	2,508	1,241	611	488	500
Critical Water Years (16%)	742	815	1,118	1,520	2,129	1,984	1,828	1,441	979	490	417	442

Table F.2.2-21-8b. San Joaquin River at Vernalis, Alt2woTUCPAlIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,368	2,669	5,031	9,799	15,861	14,425	13,671	12,915	8,758	4,099	2,580	2,835
20% Exceedance	2,562	2,273	2,808	5,092	9,253	8,806	9,457	7,660	4,324	2,556	1,770	1,677
30% Exceedance	2,097	1,995	2,060	3,650	5,896	7,176	7,938	5,095	2,954	1,859	1,485	1,388
40% Exceedance	1,855	1,826	1,793	2,738	4,142	4,541	6,432	4,125	2,385	1,668	1,378	1,334
50% Exceedance	1,747	1,616	1,623	2,168	3,001	2,887	3,847	2,961	1,859	1,403	1,148	1,200
60% Exceedance	1,582	1,442	1,531	1,899	2,450	2,589	2,948	2,237	1,526	1,215	1,026	1,066
70% Exceedance	1,454	1,360	1,403	1,752	2,169	2,338	2,683	2,077	1,418	1,044	943	1,002
80% Exceedance	1,393	1,267	1,308	1,679	1,987	2,138	2,308	1,801	1,278	869	826	923
90% Exceedance	1,276	1,201	1,187	1,576	1,852	2,031	2,163	1,574	1,080	589	665	781
Full Simulation Period Average ^a	2,058	1,967	2,882	4,611	6,453	6,107	6,389	5,378	3,476	1,920	1,438	1,433
Wet Water Years (28%)	2,977	2,954	4,105	9,921	13,070	12,461	12,484	11,479	7,331	3,568	2,384	2,269
Above Normal Water Years (14%)	2,209	1,864	2,543	4,067	6,978	6,315	6,582	4,654	3,167	2,008	1,427	1,384
Below Normal Water Years (18%)	1,831	1,718	2,731	2,772	4,409	4,171	4,865	3,750	2,381	1,563	1,211	1,262
Dry Water Years (24%)	1,522	1,494	2,631	1,980	2,791	2,673	3,023	2,372	1,472	995	918	1,014
Critical Water Years (16%)	1,325	1,283	1,519	1,811	2,209	2,134	2,321	1,674	1,238	751	826	831

Table F.2.2-21-8c. San Joaquin River at Vernalis, Alt2woTUCPAlIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,160	401	-770	-3,552	-2,777	-3,165	-2,663	-6,005	-4,961	489	777	1,406
20% Exceedance	814	551	-467	-2,260	-2,216	-3,238	-987	-3,775	-2,357	328	508	546
30% Exceedance	742	515	-35	-771	-2,975	-2,177	-372	-1,904	-313	482	630	606
40% Exceedance	653	474	140	-53	-1,872	-1,839	129	-1,020	51	576	682	652
50% Exceedance	755	436	215	-57	-716	-1,051	-1,064	-161	396	675	542	641
60% Exceedance	657	426	323	-90	-89	-560	125	18	367	637	523	547
70% Exceedance	614	422	305	6	-142	-264	440	473	453	512	480	501
80% Exceedance	612	418	408	186	-28	16	425	455	445	444	410	480
90% Exceedance	604	418	412	386	207	213	557	476	301	199	322	399
Full Simulation Period Average ^a	718	335	-154	-654	-1,225	-1,366	-647	-1,457	-1,011	275	543	598
Wet Water Years (28%)	918	348	64	-1,834	-2,717	-2,928	-2,145	-3,751	-3,323	-88	729	892
Above Normal Water Years (14%)	696	367	-10	-1,242	-1,540	-1,845	-197	-1,603	-967	472	534	421
Below Normal Water Years (18%)	657	416	-450	-224	-826	-1,160	-512	-1,037	-235	554	530	578
Dry Water Years (24%)	628	157	-623	112	-468	-430	-24	-137	231	385	430	514
Critical Water Years (16%)	582	468	401	291	79	149	493	232	259	261	409	390

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-9a. San Joaquin River at Vernalis, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (28%)	2,058	2,606	4,041	11,755	15,787	15,389	14,629	15,230	10,654	3,656	1,656	1,377
Above Normal Water Years (14%)	1,513	1,496	2,553	5,308	8,519	8,160	6,779	6,257	4,134	1,536	893	963
Below Normal Water Years (18%)	1,174	1,302	3,181	2,996	5,235	5,332	5,376	4,786	2,616	1,008	682	684
Dry Water Years (24%)	894	1,338	3,254	1,868	3,259	3,103	3,047	2,508	1,241	611	488	500
Critical Water Years (16%)	742	815	1,118	1,520	2,129	1,984	1,828	1,441	979	490	417	442

Table F.2.2-21-9b. San Joaquin River at Vernalis, Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,668	5,036	9,734	15,519	14,432	13,659	12,904	8,757	4,091	2,581	2,835
20% Exceedance	2,563	2,272	2,808	5,096	9,256	8,808	9,451	7,676	4,325	2,516	1,678	1,678
30% Exceedance	2,097	1,997	2,060	3,650	5,903	7,223	7,938	5,097	2,956	1,709	1,475	1,391
40% Exceedance	1,861	1,828	1,792	2,747	4,140	4,543	6,343	4,128	2,380	1,612	1,367	1,330
50% Exceedance	1,754	1,614	1,625	2,189	3,020	2,814	3,755	2,959	1,837	1,334	1,140	1,163
60% Exceedance	1,575	1,439	1,522	1,900	2,387	2,518	2,922	2,234	1,515	1,167	1,003	1,066
70% Exceedance	1,452	1,358	1,395	1,750	2,169	2,217	2,607	2,068	1,408	1,011	934	974
80% Exceedance	1,394	1,268	1,308	1,680	1,970	2,062	2,302	1,809	1,259	702	792	903
90% Exceedance	1,314	1,208	1,203	1,574	1,837	1,951	2,078	1,549	1,112	584	650	811
Full Simulation Period Average^a	2,061	1,967	2,882	4,606	6,444	6,066	6,363	5,372	3,468	1,855	1,422	1,430
Wet Water Years (28%)	2,979	2,956	4,106	9,894	13,077	12,484	12,489	11,484	7,332	3,542	2,384	2,270
Above Normal Water Years (14%)	2,221	1,867	2,543	4,092	7,003	6,325	6,568	4,649	3,166	1,887	1,416	1,385
Below Normal Water Years (18%)	1,829	1,719	2,730	2,766	4,371	4,110	4,833	3,739	2,387	1,469	1,211	1,260
Dry Water Years (24%)	1,528	1,504	2,636	1,982	2,771	2,568	2,959	2,360	1,465	947	915	1,015
Critical Water Years (16%)	1,322	1,262	1,511	1,805	2,187	2,055	2,294	1,664	1,191	672	741	811

Table F.2.2-21-9c. San Joaquin River at Vernalis, Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,175	400	-766	-3,618	-3,119	-3,158	-2,675	-6,017	-4,961	480	778	1,406
20% Exceedance	814	551	-467	-2,256	-2,212	-3,237	-993	-3,759	-2,356	289	417	547
30% Exceedance	742	516	-35	-771	-2,968	-2,130	-372	-1,902	-312	331	620	609
40% Exceedance	658	476	140	-44	-1,875	-1,837	40	-1,017	46	520	671	647
50% Exceedance	762	435	217	-36	-697	-1,123	-1,156	-162	375	606	535	605
60% Exceedance	650	423	315	-89	-152	-631	99	14	356	588	499	547
70% Exceedance	612	420	297	3	-141	-385	364	465	443	480	472	473
80% Exceedance	613	418	407	187	-44	-61	419	463	426	278	375	460
90% Exceedance	642	425	428	384	192	132	472	451	333	195	307	429
Full Simulation Period Average^a	721	336	-154	-659	-1,234	-1,407	-673	-1,462	-1,019	210	526	596
Wet Water Years (28%)	921	350	65	-1,861	-2,710	-2,904	-2,141	-3,746	-3,323	-114	728	893
Above Normal Water Years (14%)	708	370	-10	-1,216	-1,516	-1,835	-211	-1,609	-969	351	522	422
Below Normal Water Years (18%)	655	416	-451	-229	-864	-1,221	-543	-1,048	-229	461	529	576
Dry Water Years (24%)	634	167	-618	114	-488	-535	-88	-148	224	336	427	515
Critical Water Years (16%)	580	447	393	286	58	71	466	223	211	183	323	369

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-21-10a. San Joaquin River at Vernalis, EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (28%)	2,058	2,606	4,041	11,755	15,787	15,389	14,629	15,230	10,654	3,656	1,656	1,377
Above Normal Water Years (14%)	1,513	1,496	2,553	5,308	8,519	8,160	6,779	6,257	4,134	1,536	893	963
Below Normal Water Years (18%)	1,174	1,302	3,181	2,996	5,235	5,332	5,376	4,786	2,616	1,008	682	684
Dry Water Years (24%)	894	1,338	3,254	1,868	3,259	3,103	3,047	2,508	1,241	611	488	500
Critical Water Years (16%)	742	815	1,118	1,520	2,129	1,984	1,828	1,441	979	490	417	442

Table F.2.2-21-10b. San Joaquin River at Vernalis, NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (28%)	2,982	2,957	4,091	9,879	13,068	12,499	12,532	11,481	7,391	3,577	2,375	2,263
Above Normal Water Years (14%)	2,222	1,876	2,549	4,210	7,063	6,332	6,587	4,709	3,201	1,899	1,412	1,367
Below Normal Water Years (18%)	1,830	1,720	2,722	2,738	4,312	4,104	4,914	3,862	2,439	1,486	1,183	1,215
Dry Water Years (24%)	1,542	1,514	2,585	1,992	2,732	2,550	2,992	2,406	1,486	963	925	1,019
Critical Water Years (16%)	1,288	1,244	1,499	1,821	2,162	2,038	2,287	1,665	1,129	560	616	738

Table F.2.2-21-10c. San Joaquin River at Vernalis, NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,068	404	-778	-3,615	-3,272	-2,935	-2,773	-5,995	-4,958	480	703	1,268
20% Exceedance	850	524	-478	-2,264	-2,315	-3,251	-933	-3,768	-2,349	445	440	526
30% Exceedance	741	523	-35	-849	-2,997	-2,219	-370	-1,842	-313	328	594	605
40% Exceedance	683	474	129	-35	-2,040	-1,773	129	-974	42	542	625	644
50% Exceedance	786	435	229	-48	-727	-1,118	-1,123	-81	397	534	495	639
60% Exceedance	637	443	320	-73	-156	-651	91	177	417	577	489	516
70% Exceedance	629	419	300	17	-203	-399	356	487	413	461	449	452
80% Exceedance	615	417	370	195	-60	-72	414	472	407	263	347	430
90% Exceedance	635	427	426	396	145	116	471	458	285	184	309	383
Full Simulation Period Average ^a	720	337	-172	-647	-1,253	-1,410	-637	-1,422	-994	211	501	572
Wet Water Years (28%)	923	352	50	-1,876	-2,719	-2,889	-2,098	-3,749	-3,264	-78	719	886
Above Normal Water Years (14%)	709	380	-4	-1,098	-1,456	-1,828	-193	-1,548	-934	363	518	404
Below Normal Water Years (18%)	656	417	-459	-257	-923	-1,227	-463	-925	-177	477	501	531
Dry Water Years (24%)	648	177	-668	124	-527	-553	-55	-102	246	353	438	519
Critical Water Years (16%)	546	428	381	302	32	53	459	223	149	70	199	296

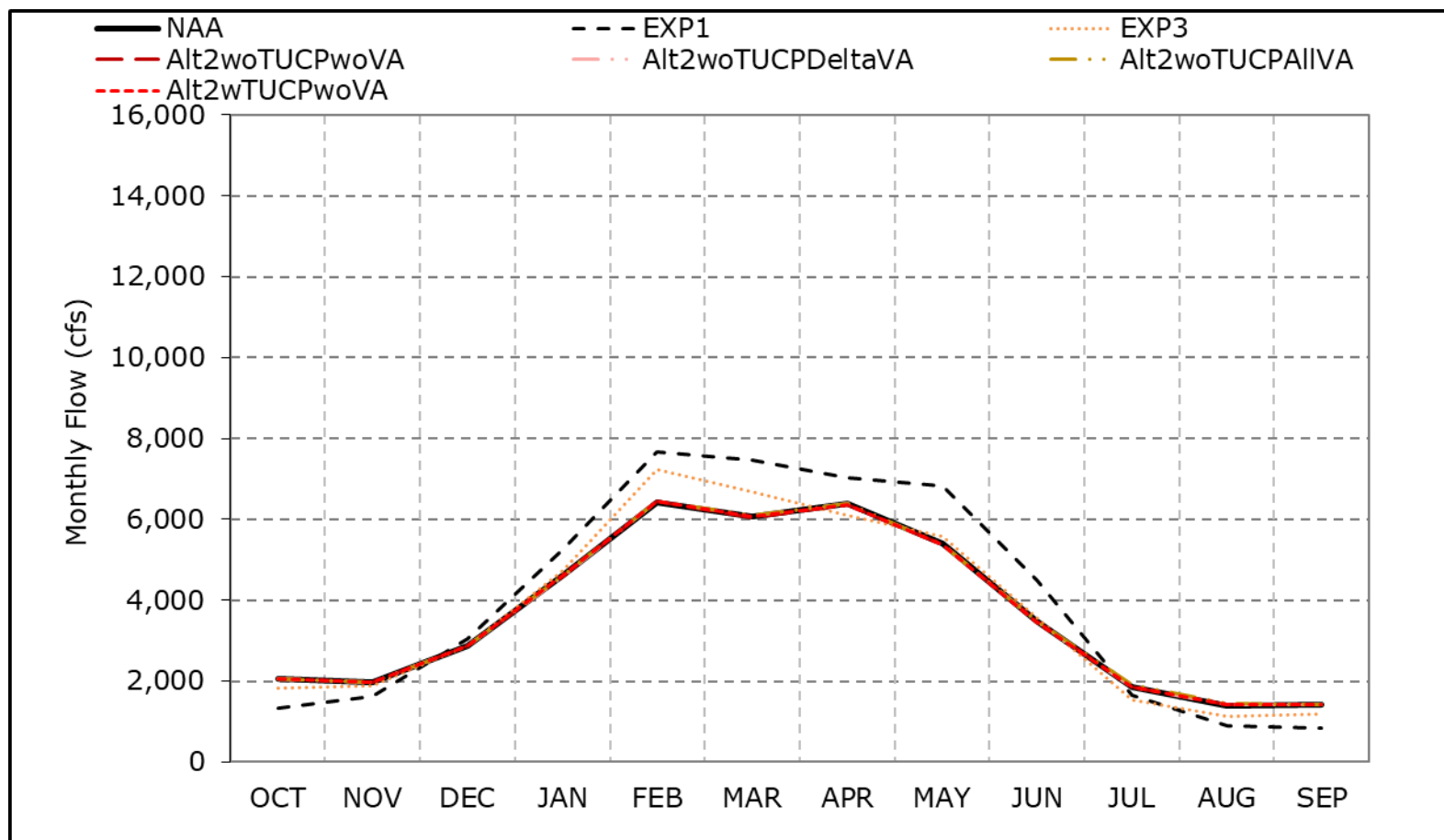
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-21-1. San Joaquin River at Vernalis, Long-Term Average Flow

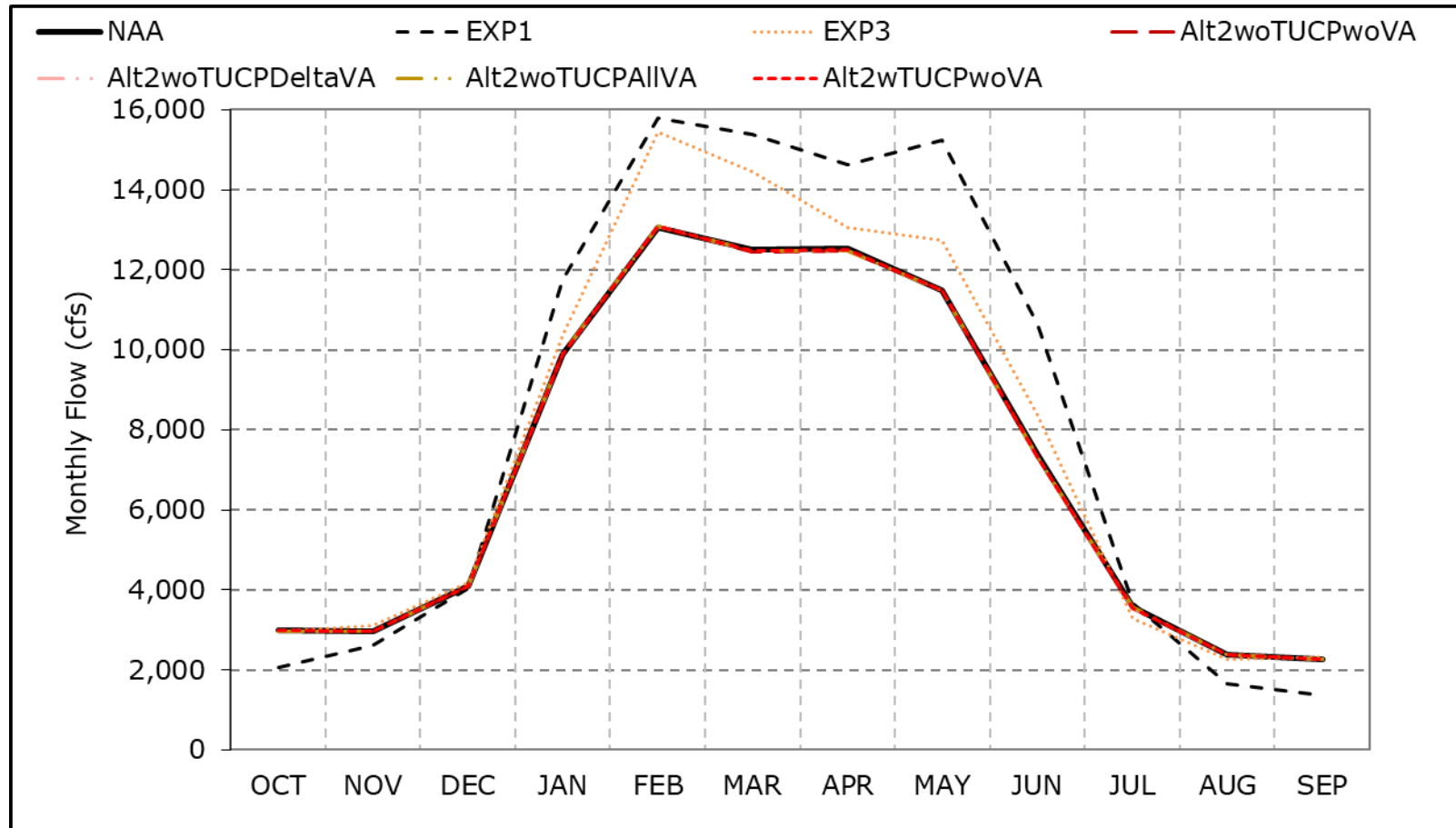


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-2. San Joaquin River at Vernalis, Wet Year Average Flow

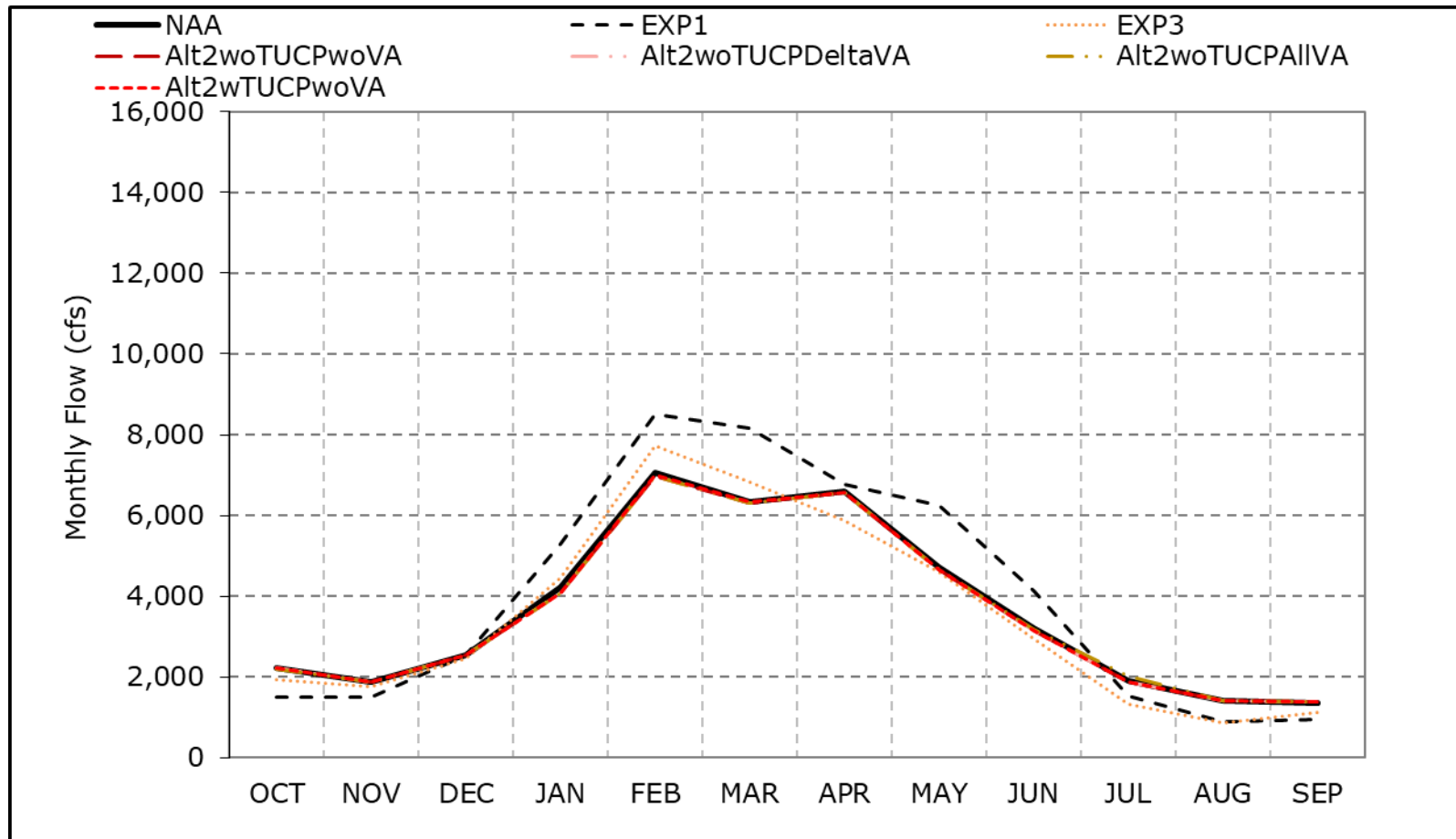


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-3. San Joaquin River at Vernalis, Above Normal Year Average Flow

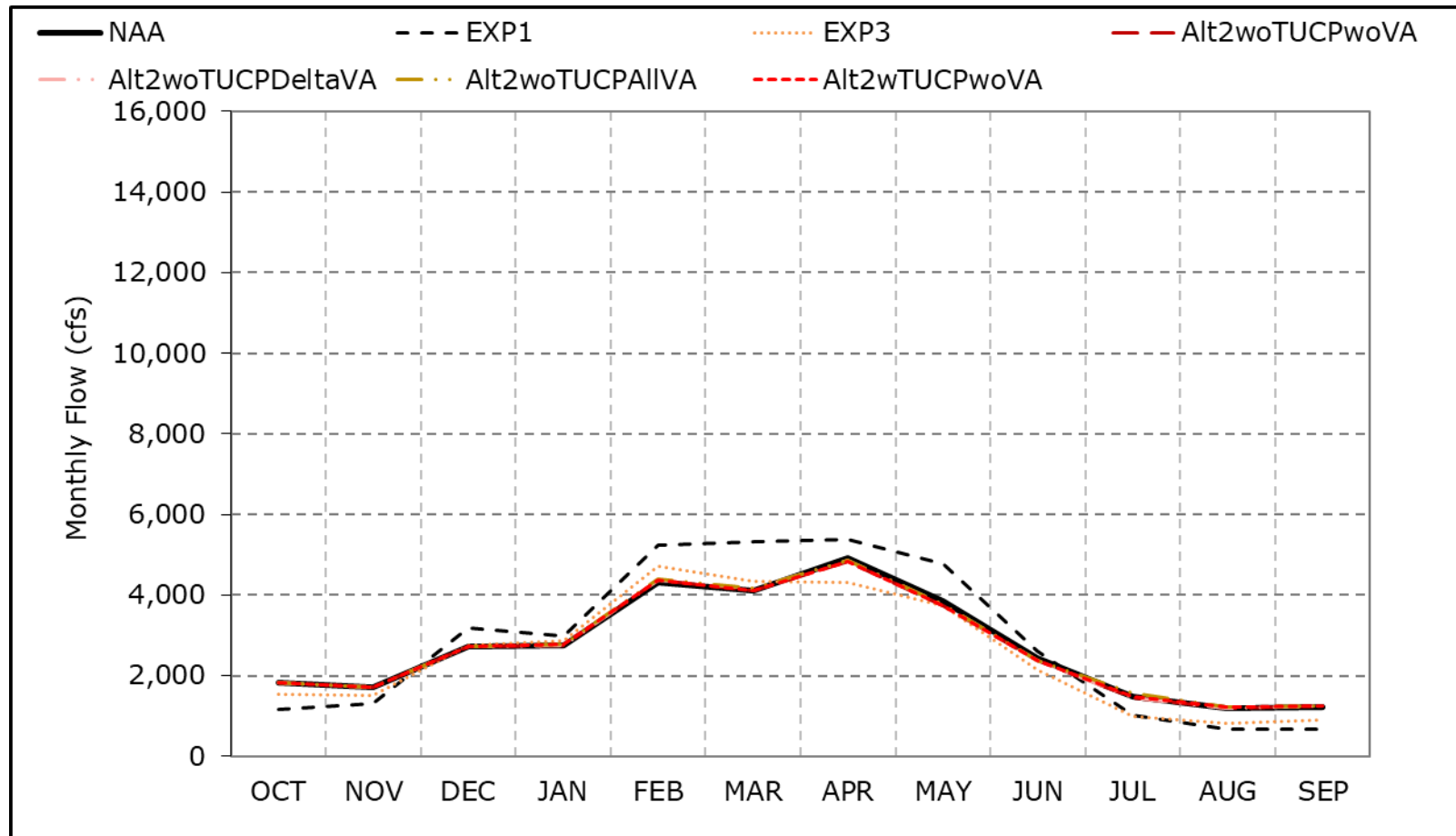


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-4. San Joaquin River at Vernalis, Below Normal Year Average Flow

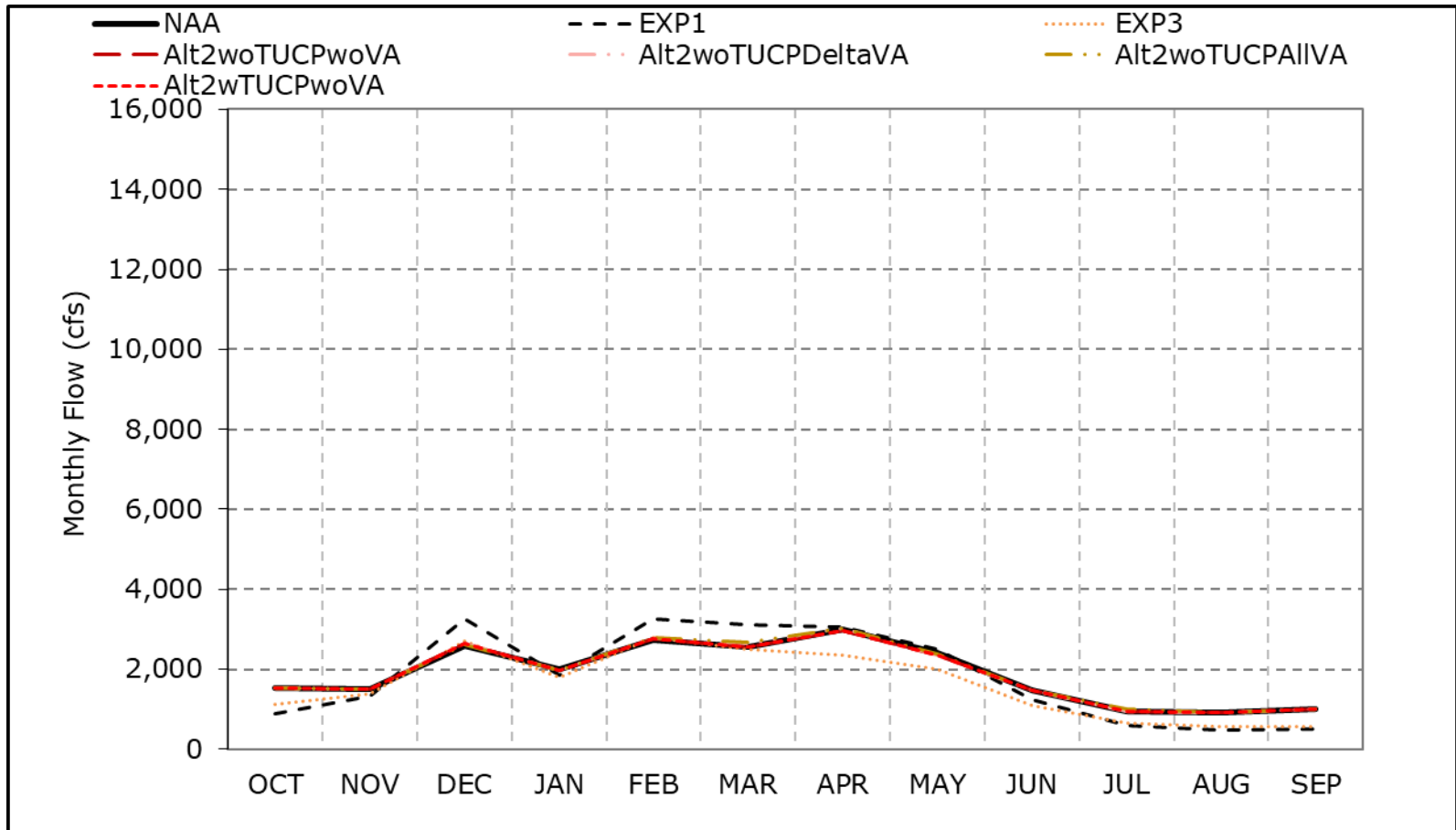


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-5. San Joaquin River at Vernalis, Dry Year Average Flow

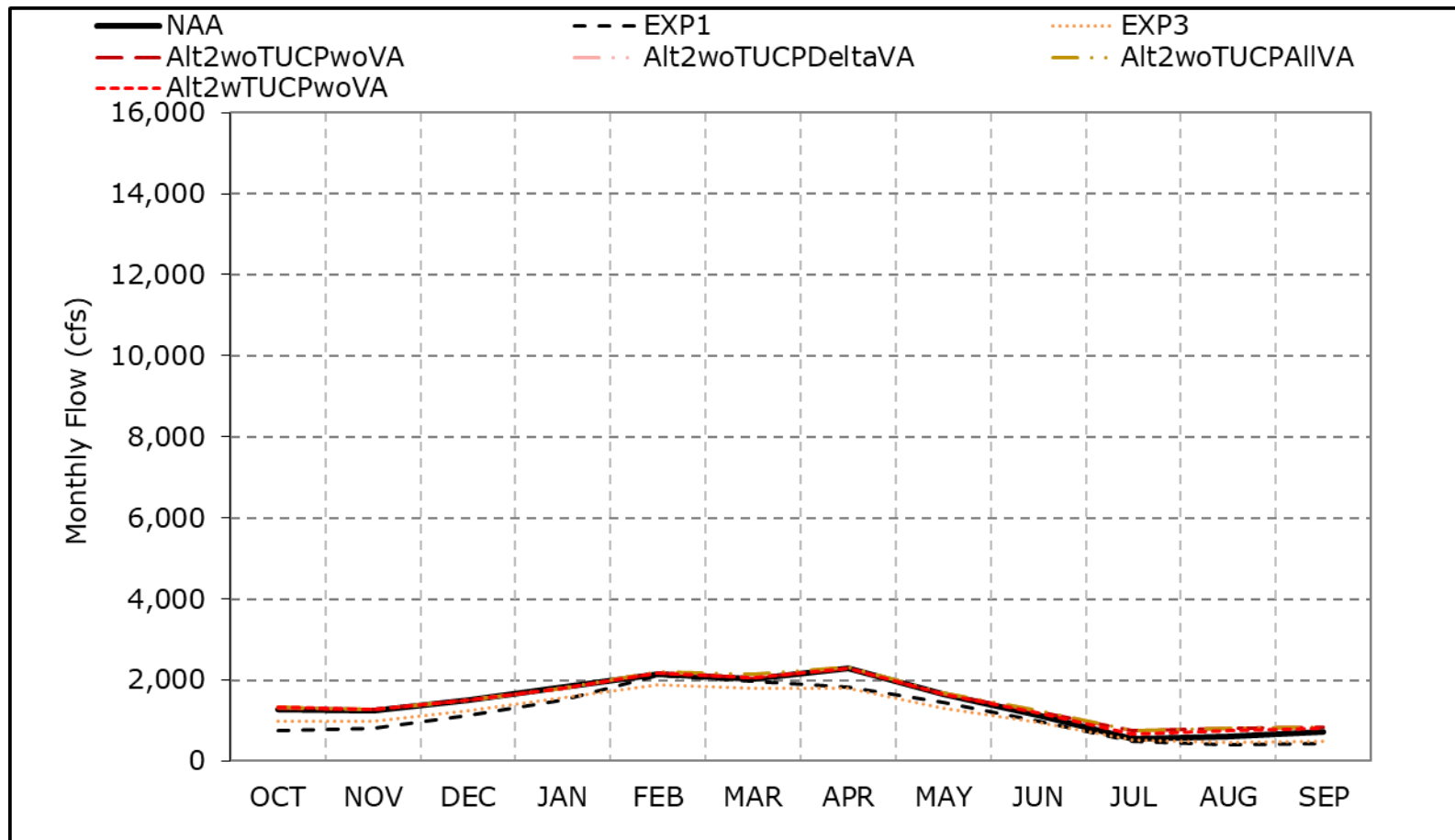


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-6. San Joaquin River at Vernalis, Critical Year Average Flow

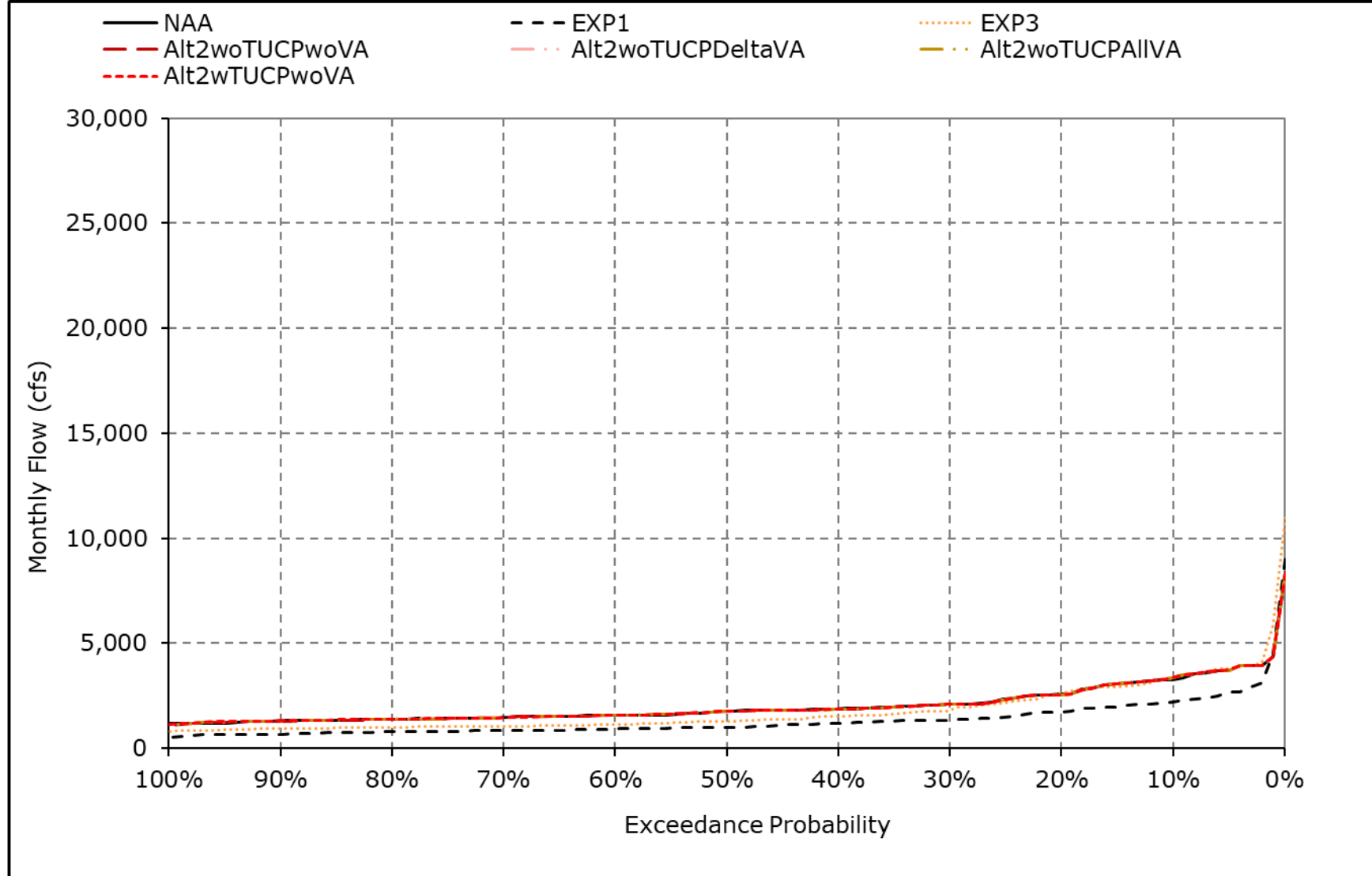


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*"Water Year Types results are displayed with calendar year – year type sorting.

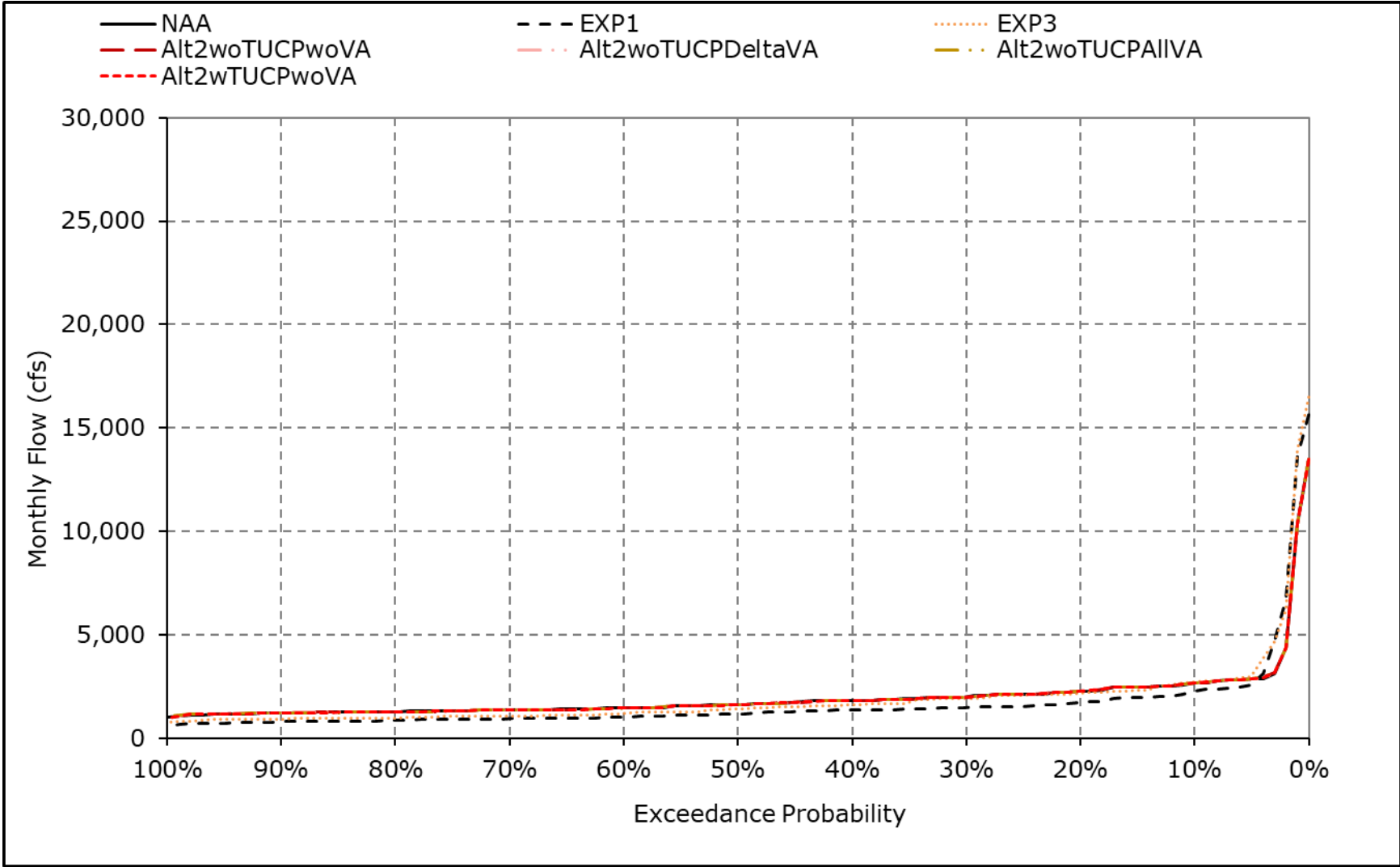
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-7. San Joaquin River at Vernalis, October



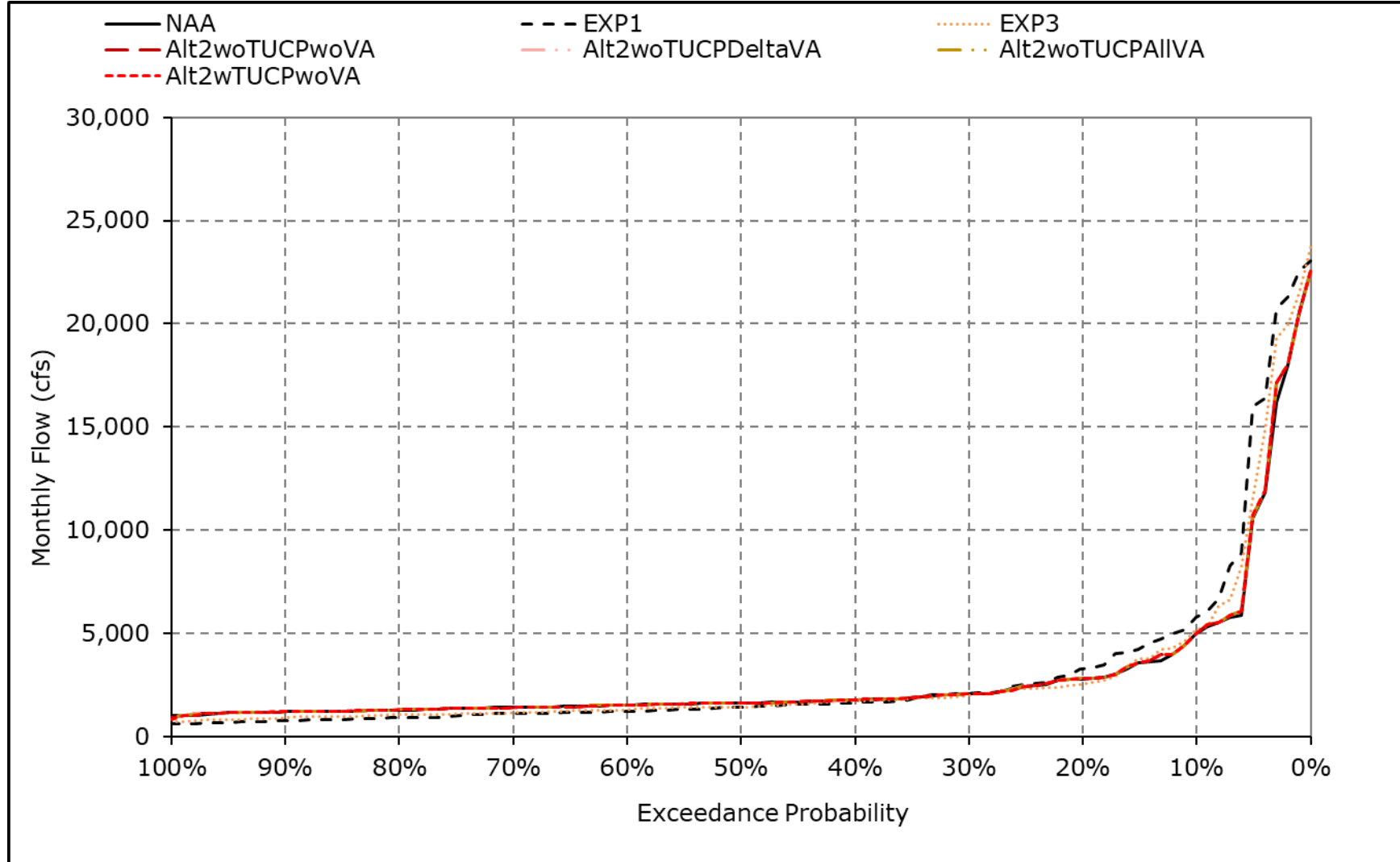
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-8. San Joaquin River at Vernalis, November



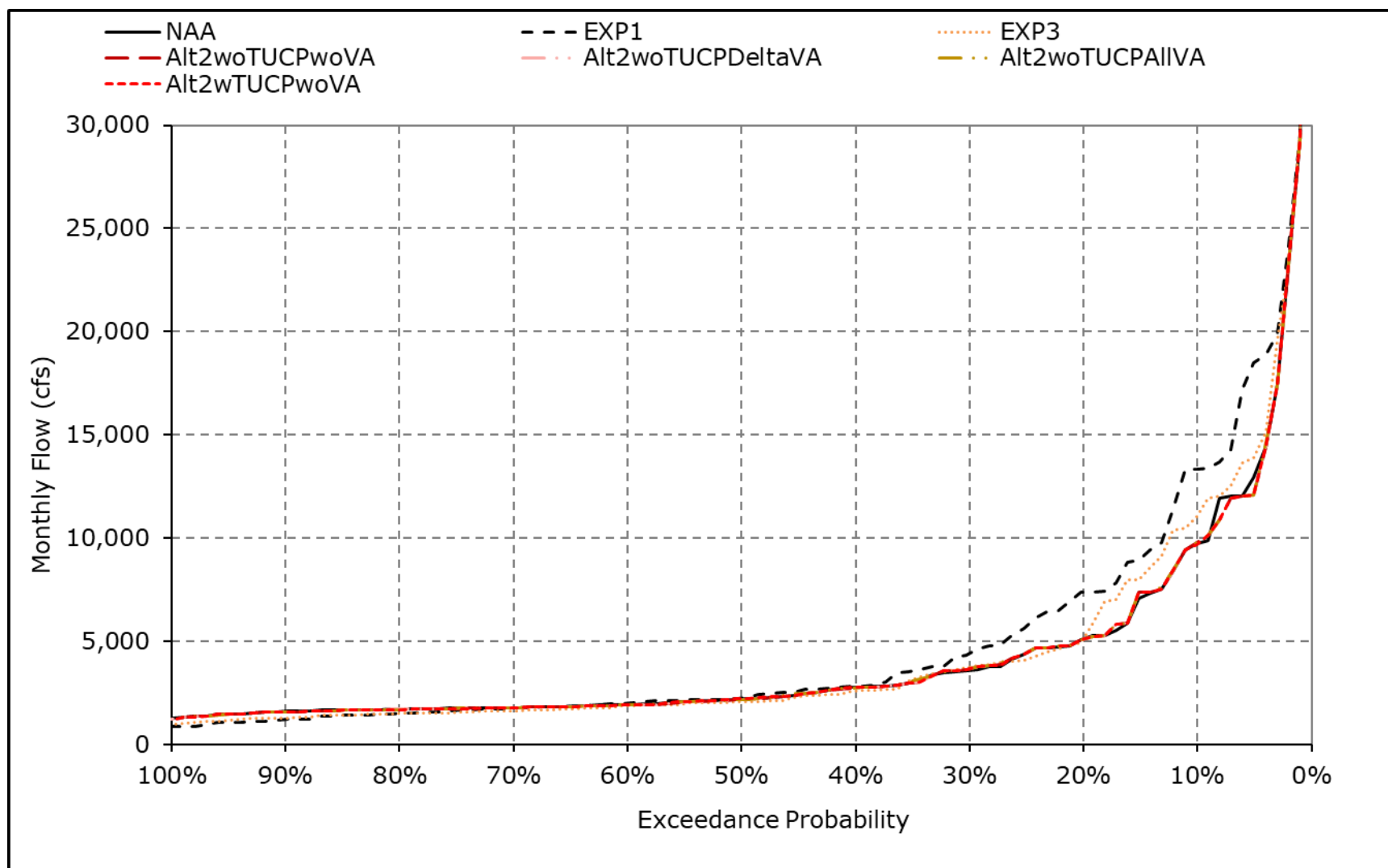
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-9. San Joaquin River at Vernalis, December



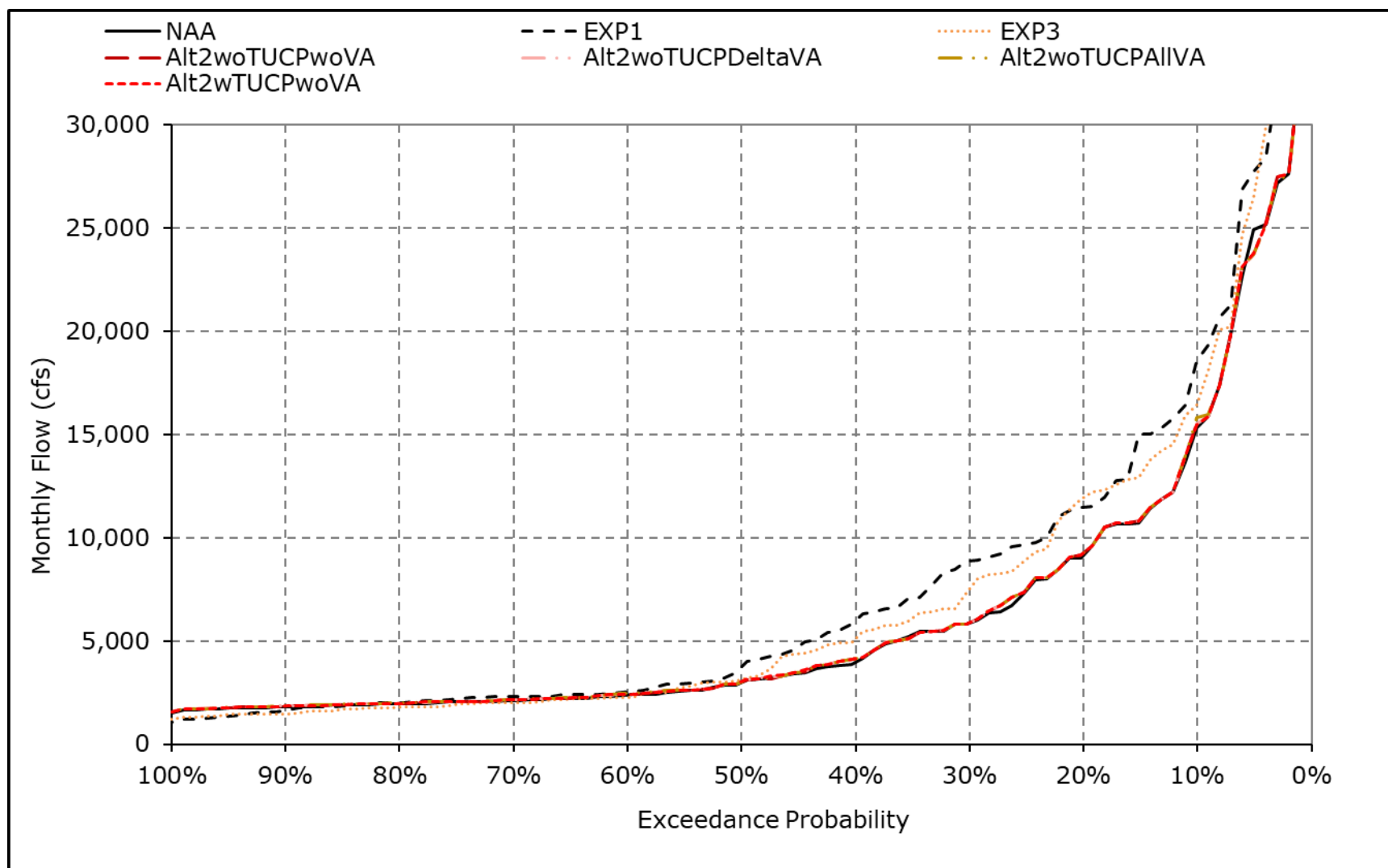
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-10. San Joaquin River at Vernalis, January



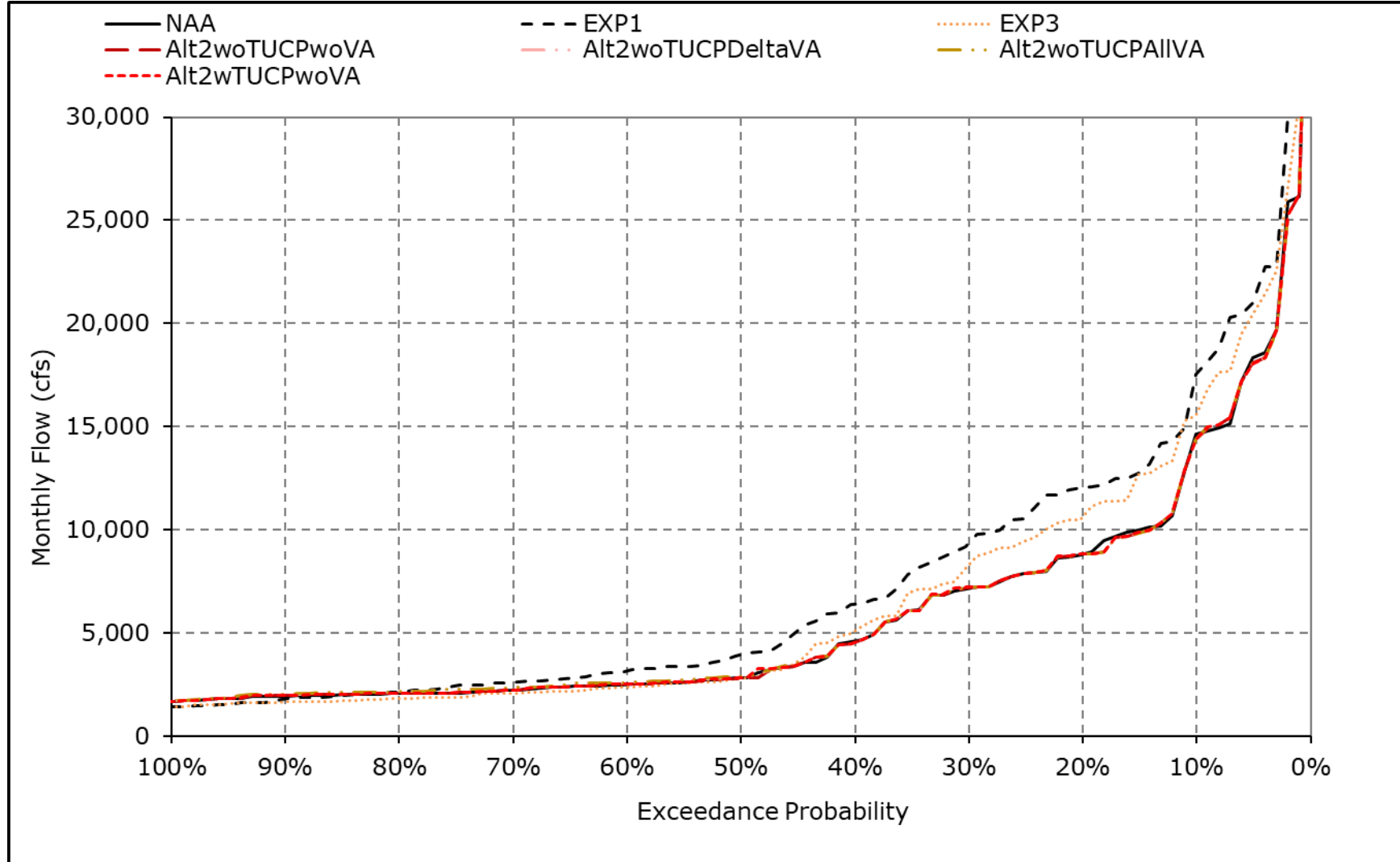
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-11. San Joaquin River at Vernalis, February



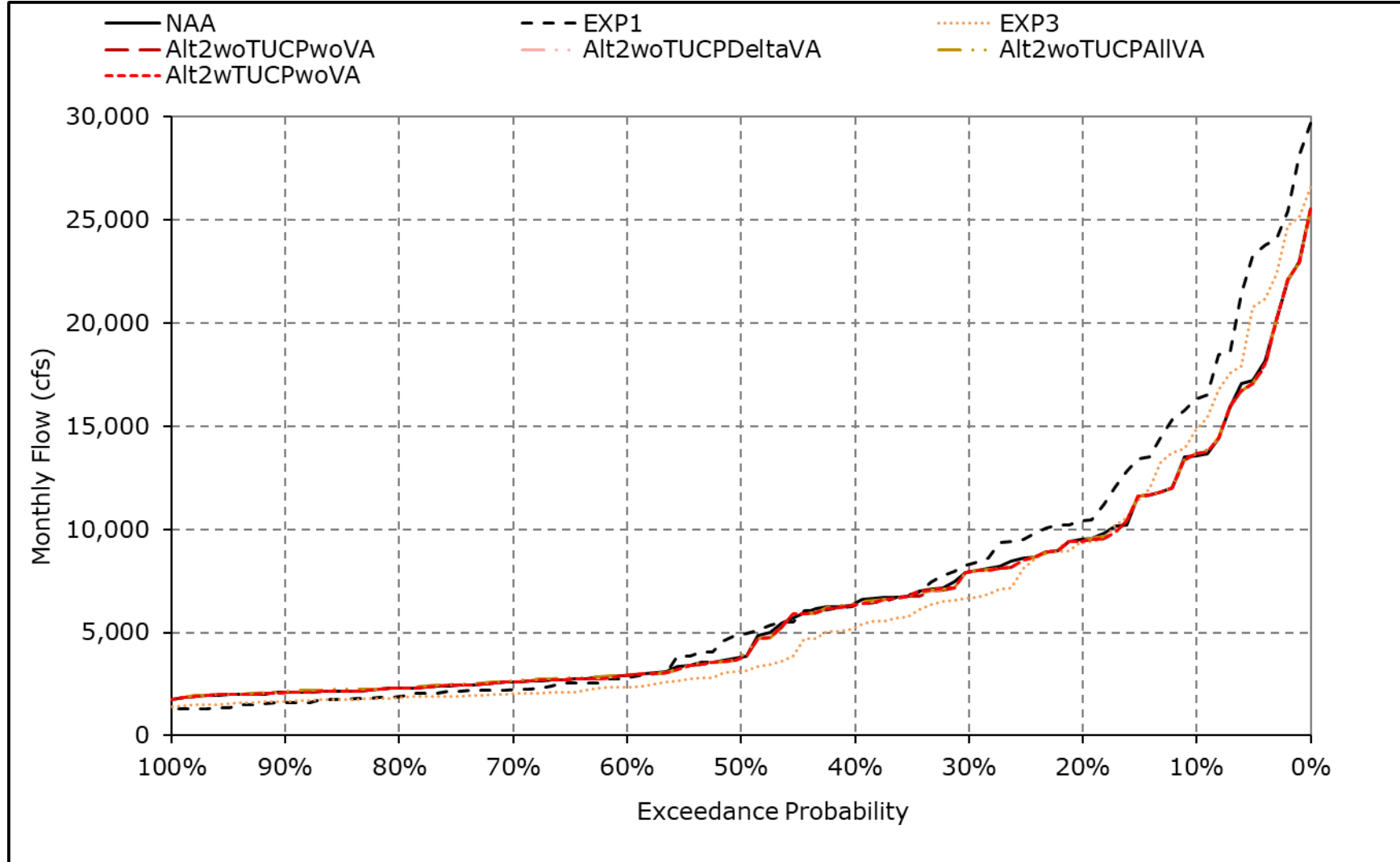
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-12. San Joaquin River at Vernalis, March



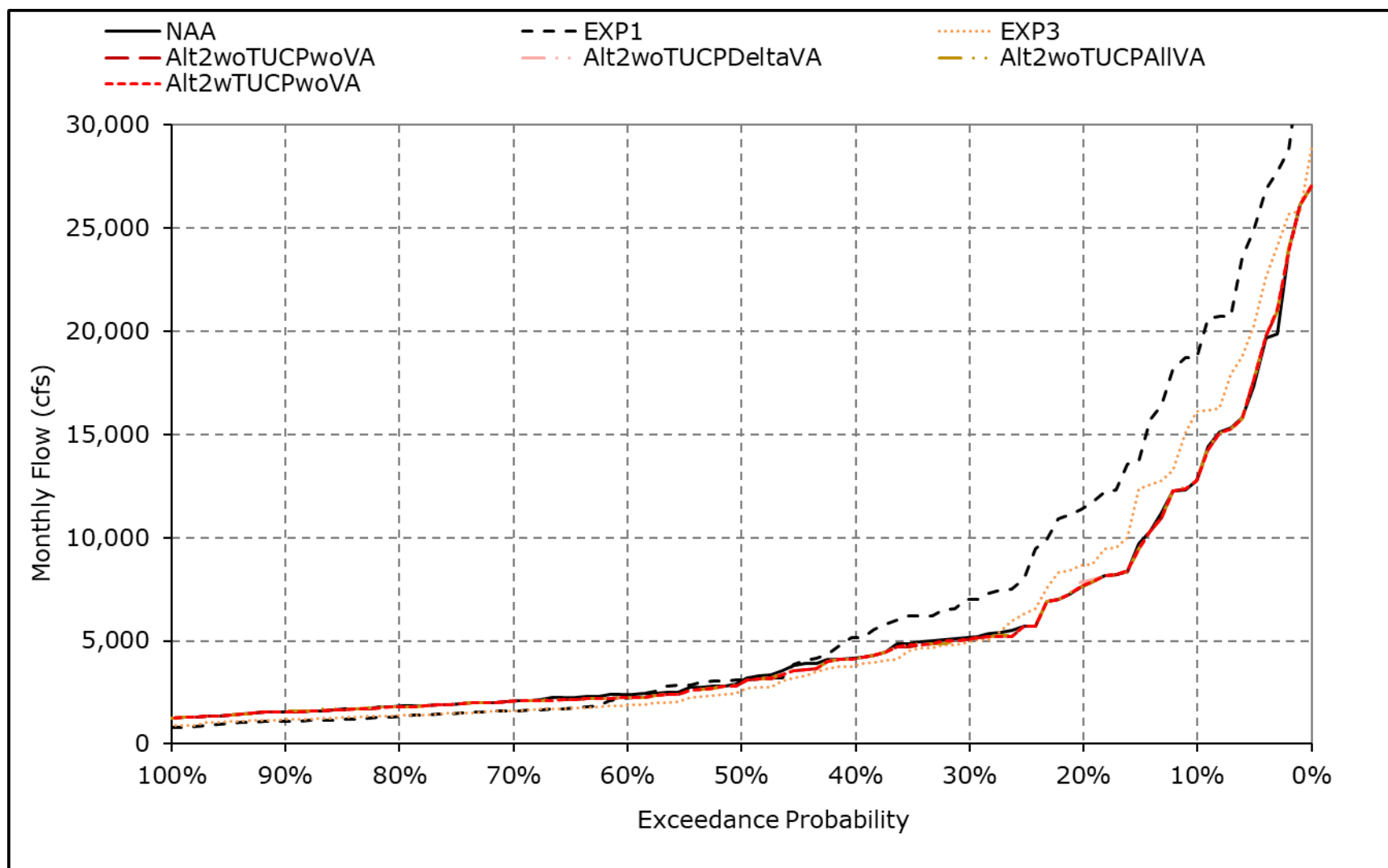
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-13. San Joaquin River at Vernalis, April



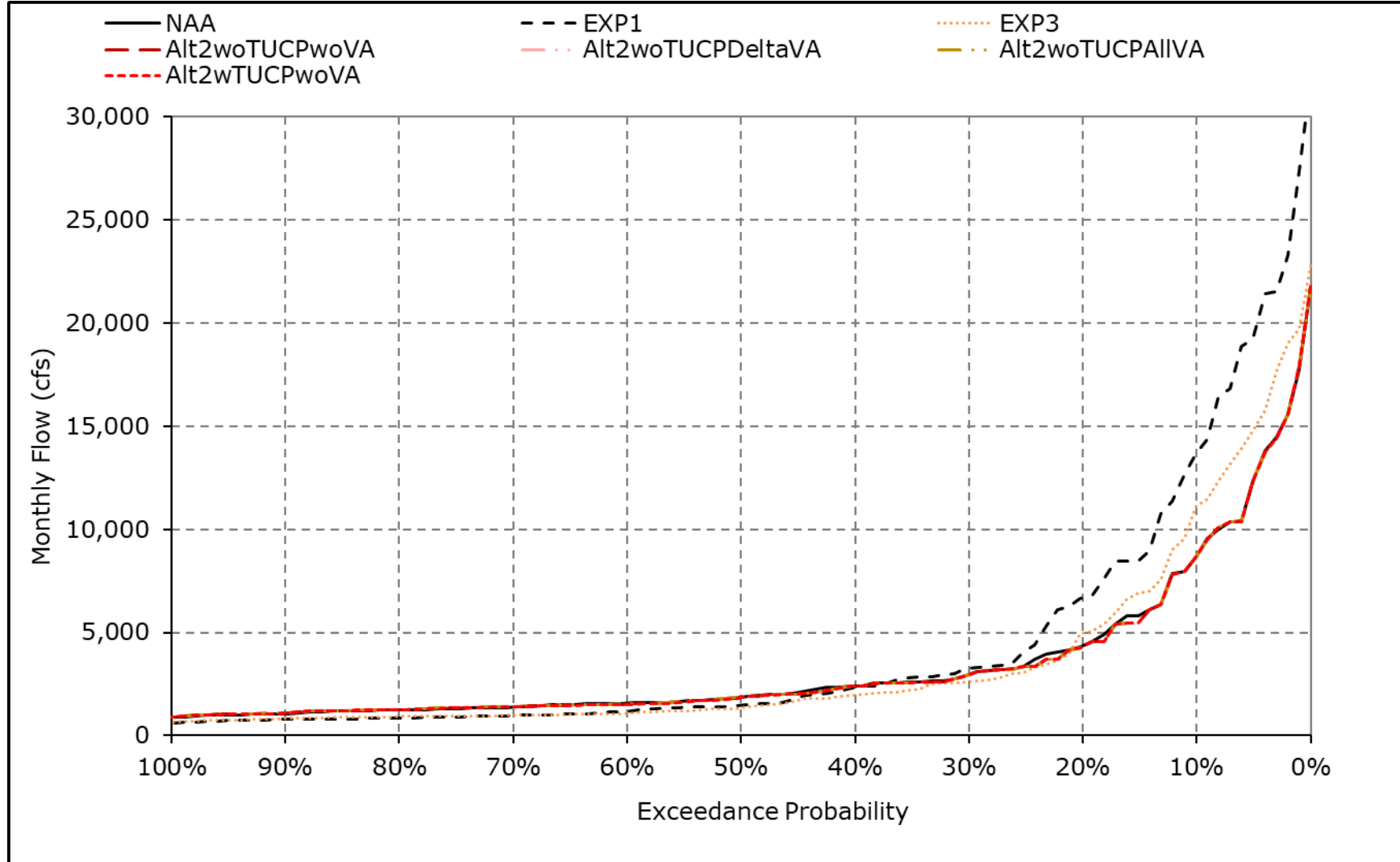
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-14. San Joaquin River at Vernalis, May



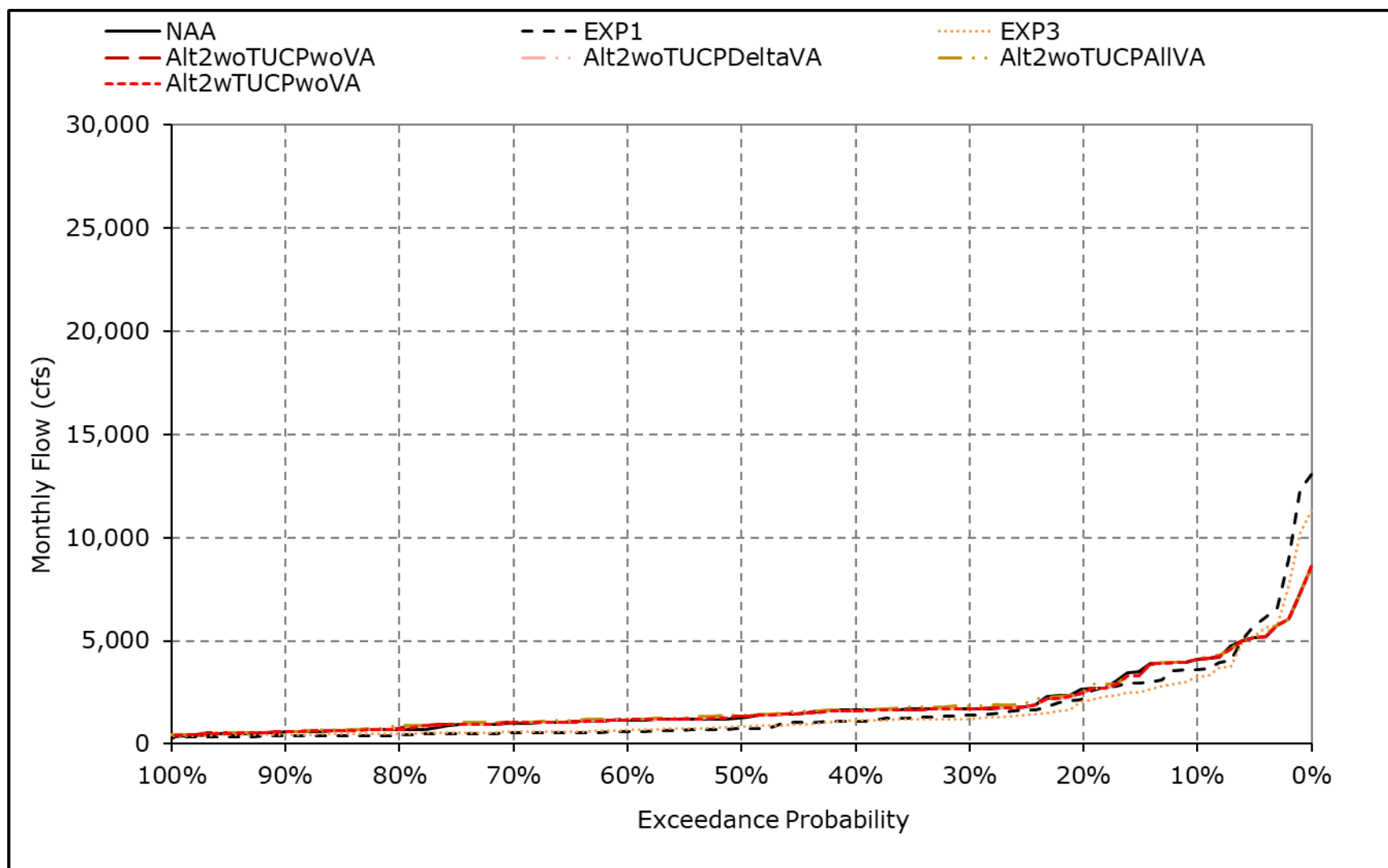
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-15. San Joaquin River at Vernalis, June



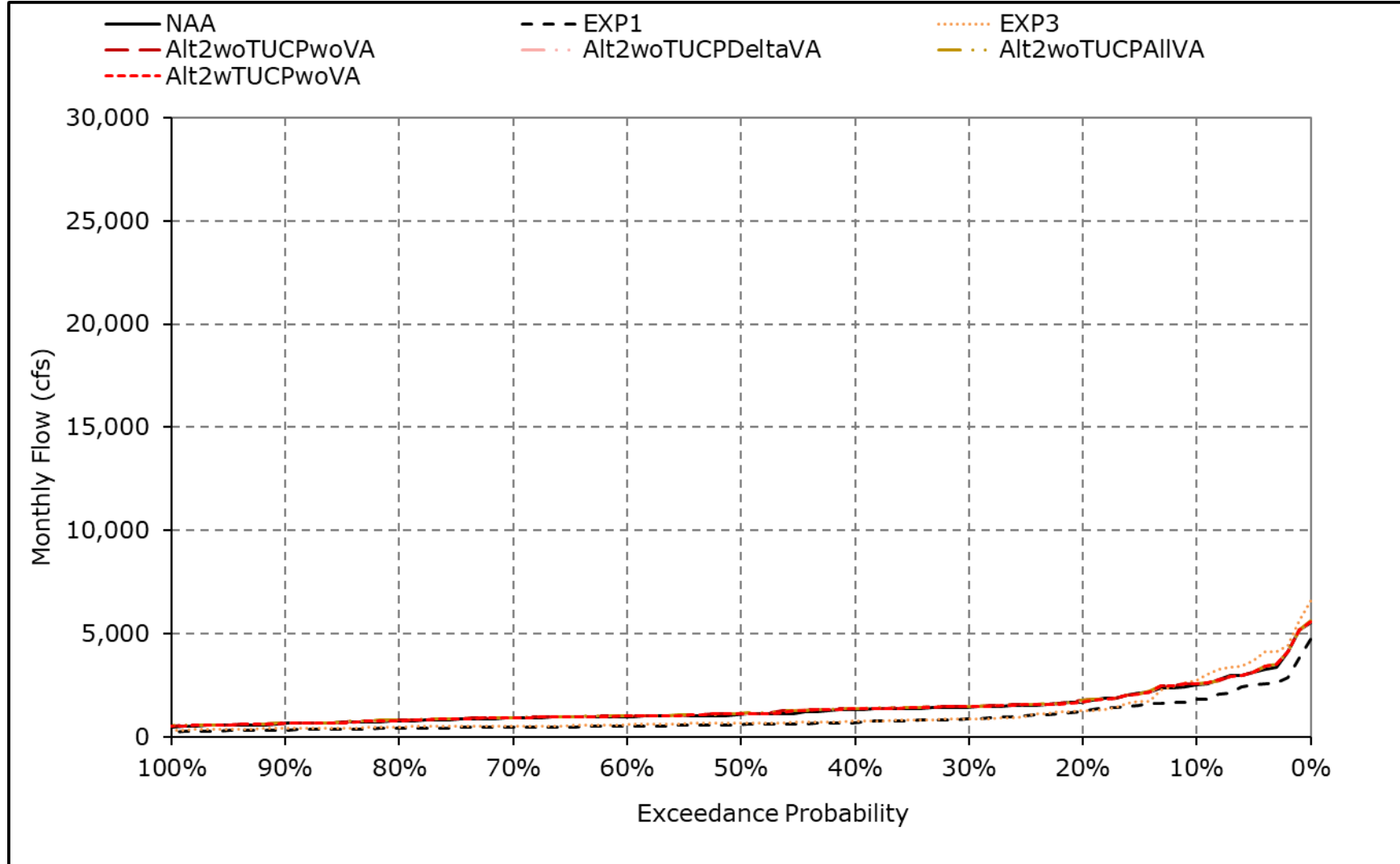
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-16. San Joaquin River at Vernalis, July



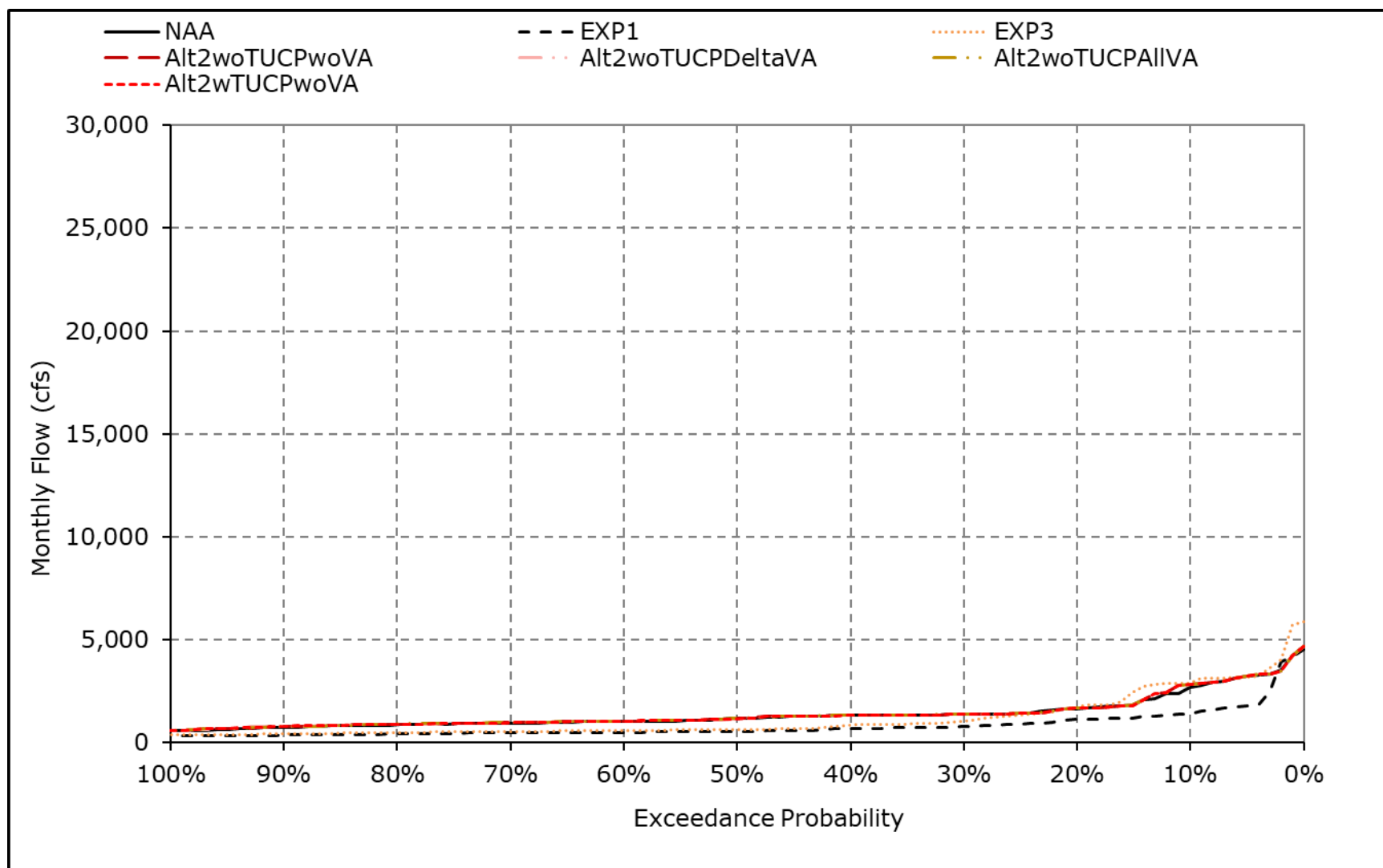
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-17. San Joaquin River at Vernalis, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-21-18. San Joaquin River at Vernalis, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-22-1a. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-1b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,669	5,030	9,790	15,579	14,422	13,658	12,904	8,757	4,091	2,580	2,835
20% Exceedance	2,562	2,272	2,808	5,088	9,248	8,806	9,444	7,661	4,325	2,520	1,773	1,677
30% Exceedance	2,097	1,995	2,059	3,648	5,902	7,175	7,937	5,095	2,954	1,705	1,481	1,388
40% Exceedance	1,857	1,826	1,777	2,736	4,139	4,539	6,342	4,127	2,379	1,611	1,368	1,327
50% Exceedance	1,750	1,617	1,624	2,168	3,000	2,788	3,752	2,950	1,852	1,352	1,140	1,181
60% Exceedance	1,572	1,439	1,525	1,900	2,387	2,518	2,920	2,233	1,524	1,184	1,008	1,068
70% Exceedance	1,472	1,361	1,403	1,749	2,169	2,214	2,607	2,066	1,416	1,033	939	995
80% Exceedance	1,398	1,270	1,296	1,688	1,974	2,061	2,302	1,808	1,258	758	822	907
90% Exceedance	1,296	1,222	1,199	1,574	1,834	1,950	2,077	1,550	1,111	613	669	779
Full Simulation Period Average ^a	2,060	1,969	2,882	4,602	6,441	6,055	6,356	5,367	3,471	1,864	1,432	1,429
Wet Water Years (22%)	3,458	3,243	4,138	10,495	14,859	14,281	14,060	13,738	9,228	4,310	2,764	2,641
Above Normal Water Years (12%)	2,210	1,994	4,416	5,797	8,410	7,492	8,015	5,673	3,032	1,693	1,307	1,329
Below Normal Water Years (15%)	1,872	1,806	2,492	4,140	6,686	5,399	6,606	4,453	2,597	1,625	1,356	1,265
Dry Water Years (17%)	1,563	1,564	2,679	2,075	2,370	2,808	3,173	2,430	1,580	1,163	997	1,025
Critical Water Years (34%)	1,409	1,391	1,723	1,835	2,227	2,139	2,267	1,714	1,233	799	867	953

Table F.2.2-22-1c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	107	-2	6	54	213	-234	96	-22	-3	1	75	138
20% Exceedance	-36	27	11	0	95	13	-67	-5	-7	-152	72	20
30% Exceedance	1	-8	-1	75	27	41	-3	-62	-1	-1	32	1
40% Exceedance	-28	0	-4	-21	164	-67	-90	-44	2	-22	48	1
50% Exceedance	-28	3	-12	-9	11	-32	-36	-91	-7	90	39	-17
60% Exceedance	10	-20	-2	-16	5	20	7	-163	-52	29	16	33
70% Exceedance	3	5	5	-15	62	10	8	-24	38	41	27	42
80% Exceedance	1	3	26	0	19	10	6	-10	18	71	59	34
90% Exceedance	-12	12	-3	-12	44	16	0	-5	48	40	16	15
Full Simulation Period Average ^a	-1	0	19	-16	16	-8	-43	-46	-23	9	36	22
Wet Water Years (22%)	6	0	21	-88	-64	-75	-34	-4	-89	-52	17	33
Above Normal Water Years (12%)	-1	0	7	39	86	26	-39	-30	-13	-8	-4	-1
Below Normal Water Years (15%)	-10	-1	19	15	14	-30	-162	-121	-37	-12	5	2
Dry Water Years (17%)	-19	-23	43	-4	49	32	-50	-125	-56	-20	16	20
Critical Water Years (34%)	7	11	10	-8	27	14	5	-7	40	78	87	34

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-2a. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-2b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,382	2,668	5,032	9,808	15,578	14,430	13,662	12,914	8,756	4,090	2,579	2,834
20% Exceedance	2,558	2,267	2,807	5,091	9,252	8,805	9,458	7,857	4,322	2,516	1,756	1,676
30% Exceedance	2,096	1,995	2,059	3,651	5,894	7,175	7,935	5,095	2,954	1,706	1,479	1,388
40% Exceedance	1,857	1,825	1,778	2,737	4,142	4,536	6,420	4,124	2,379	1,609	1,371	1,329
50% Exceedance	1,742	1,616	1,624	2,168	3,001	2,886	3,848	2,960	1,854	1,354	1,137	1,182
60% Exceedance	1,557	1,446	1,530	1,898	2,447	2,591	2,946	2,230	1,525	1,183	1,005	1,066
70% Exceedance	1,472	1,359	1,405	1,750	2,168	2,333	2,682	2,075	1,415	1,034	941	978
80% Exceedance	1,405	1,266	1,305	1,697	1,987	2,136	2,308	1,806	1,278	760	827	909
90% Exceedance	1,312	1,228	1,211	1,576	1,851	2,019	2,162	1,573	1,105	606	669	794
Full Simulation Period Average ^a	2,058	1,968	2,882	4,602	6,449	6,103	6,387	5,378	3,474	1,864	1,431	1,430
Wet Water Years (22%)	3,458	3,243	4,139	10,494	14,853	14,282	14,069	13,744	9,231	4,309	2,762	2,640
Above Normal Water Years (12%)	2,210	1,994	4,416	5,797	8,411	7,492	8,046	5,713	3,032	1,695	1,306	1,329
Below Normal Water Years (15%)	1,874	1,807	2,493	4,142	6,686	5,405	6,635	4,460	2,596	1,624	1,355	1,265
Dry Water Years (17%)	1,554	1,565	2,681	2,076	2,373	2,856	3,204	2,432	1,581	1,163	996	1,025
Critical Water Years (34%)	1,409	1,389	1,720	1,834	2,252	2,252	2,313	1,725	1,240	799	866	957

Table F.2.2-22-2c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPDeltaVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	106	-3	8	72	212	-226	100	-12	-5	-1	74	137
20% Exceedance	-40	22	10	3	98	12	-53	190	-10	-156	55	20
30% Exceedance	0	-9	-2	77	20	41	-5	-63	0	1	30	1
40% Exceedance	-29	-2	-4	-20	167	-70	-11	-47	2	-25	51	2
50% Exceedance	-35	1	-13	-9	12	66	60	-80	-6	92	37	-15
60% Exceedance	-5	-13	3	-17	64	93	33	-167	-51	28	12	31
70% Exceedance	2	2	7	-14	61	130	84	-15	38	41	29	25
80% Exceedance	9	0	35	10	32	85	11	-12	37	73	63	36
90% Exceedance	4	18	9	-11	61	84	85	17	41	33	17	30
Full Simulation Period Average ^a	-3	-1	19	-16	24	40	-13	-35	-20	9	35	23
Wet Water Years (22%)	5	0	22	-89	-70	-74	-25	2	-85	-52	16	32
Above Normal Water Years (12%)	-1	0	7	40	86	26	-9	10	-13	-7	-4	-1
Below Normal Water Years (15%)	-8	0	19	17	14	-25	-133	-114	-38	-14	4	1
Dry Water Years (17%)	-28	-23	45	-3	52	79	-19	-123	-55	-20	15	20
Critical Water Years (34%)	8	9	7	-9	52	128	51	5	47	78	86	37

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-3a. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-3b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,368	2,669	5,031	9,799	15,861	14,425	13,671	12,915	8,758	4,099	2,580	2,835
20% Exceedance	2,562	2,273	2,808	5,092	9,253	8,806	9,457	7,660	4,324	2,556	1,770	1,677
30% Exceedance	2,097	1,995	2,060	3,650	5,896	7,176	7,938	5,095	2,954	1,859	1,485	1,388
40% Exceedance	1,855	1,826	1,793	2,738	4,142	4,541	6,432	4,125	2,385	1,668	1,378	1,334
50% Exceedance	1,747	1,616	1,623	2,168	3,001	2,887	3,847	2,961	1,859	1,403	1,148	1,200
60% Exceedance	1,582	1,442	1,531	1,899	2,450	2,589	2,948	2,237	1,526	1,215	1,026	1,066
70% Exceedance	1,454	1,360	1,403	1,752	2,169	2,338	2,683	2,077	1,418	1,044	943	1,002
80% Exceedance	1,393	1,267	1,308	1,679	1,987	2,138	2,308	1,801	1,278	869	826	923
90% Exceedance	1,276	1,201	1,187	1,576	1,852	2,031	2,163	1,574	1,080	589	665	781
Full Simulation Period Average ^a	2,058	1,967	2,882	4,611	6,453	6,107	6,389	5,378	3,476	1,920	1,438	1,433
Wet Water Years (22%)	3,458	3,244	4,140	10,530	14,848	14,281	14,073	13,750	9,233	4,347	2,767	2,642
Above Normal Water Years (12%)	2,211	1,994	4,416	5,798	8,447	7,494	8,049	5,686	3,033	1,791	1,311	1,329
Below Normal Water Years (15%)	1,875	1,807	2,492	4,140	6,688	5,415	6,641	4,462	2,597	1,753	1,370	1,273
Dry Water Years (17%)	1,563	1,565	2,686	2,086	2,378	2,863	3,204	2,434	1,581	1,232	1,003	1,029
Critical Water Years (34%)	1,404	1,385	1,716	1,833	2,253	2,255	2,314	1,727	1,242	814	871	959

Table F.2.2-22-3c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPAIIVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92	-3	7	63	495	-231	109	-11	-3	9	75	138
20% Exceedance	-36	28	11	4	99	13	-54	-6	-8	-117	69	20
30% Exceedance	1	-9	-1	77	22	42	-2	-62	-1	154	36	0
40% Exceedance	-30	0	11	-19	168	-66	0	-46	9	35	58	8
50% Exceedance	-30	2	-13	-9	12	67	59	-80	-1	140	48	2
60% Exceedance	20	-17	3	-17	67	91	34	-159	-50	60	34	31
70% Exceedance	-15	3	5	-12	62	134	84	-13	40	51	31	49
80% Exceedance	-3	1	38	-9	32	87	12	-17	37	182	63	50
90% Exceedance	-31	-8	-15	-10	62	97	86	18	16	15	12	16
Full Simulation Period Average ^a	-3	-2	18	-7	28	44	-10	-35	-18	65	42	26
Wet Water Years (22%)	5	1	22	-53	-75	-75	-21	8	-83	-15	21	34
Above Normal Water Years (12%)	-1	1	8	40	122	28	-6	-16	-11	90	0	-1
Below Normal Water Years (15%)	-8	-1	18	15	16	-15	-126	-112	-37	115	18	9
Dry Water Years (17%)	-20	-22	50	7	57	87	-19	-121	-55	49	21	24
Critical Water Years (34%)	3	5	3	-10	53	131	52	7	49	93	91	39

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-4a. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-4b. San Joaquin River at Vernalis (60-20-20), Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,668	5,036	9,734	15,519	14,432	13,659	12,904	8,757	4,091	2,581	2,835
20% Exceedance	2,563	2,272	2,808	5,096	9,256	8,808	9,451	7,676	4,325	2,516	1,678	1,678
30% Exceedance	2,097	1,997	2,060	3,650	5,903	7,223	7,938	5,097	2,956	1,709	1,475	1,391
40% Exceedance	1,861	1,828	1,792	2,747	4,140	4,543	6,343	4,128	2,380	1,612	1,367	1,330
50% Exceedance	1,754	1,614	1,625	2,189	3,020	2,814	3,755	2,959	1,837	1,334	1,140	1,163
60% Exceedance	1,575	1,439	1,522	1,900	2,387	2,518	2,922	2,234	1,515	1,167	1,003	1,066
70% Exceedance	1,452	1,358	1,395	1,750	2,169	2,217	2,607	2,068	1,408	1,011	934	974
80% Exceedance	1,394	1,268	1,308	1,680	1,970	2,062	2,302	1,809	1,259	702	792	903
90% Exceedance	1,314	1,208	1,203	1,574	1,837	1,951	2,078	1,549	1,112	584	650	811
Full Simulation Period Average ^a	2,061	1,967	2,882	4,606	6,444	6,066	6,363	5,372	3,468	1,855	1,422	1,430
Wet Water Years (22%)	3,459	3,245	4,140	10,495	14,853	14,286	14,068	13,744	9,230	4,311	2,764	2,643
Above Normal Water Years (12%)	2,216	1,998	4,418	5,799	8,406	7,493	8,020	5,683	3,045	1,708	1,319	1,338
Below Normal Water Years (15%)	1,873	1,801	2,490	4,140	6,695	5,444	6,634	4,465	2,598	1,624	1,354	1,270
Dry Water Years (17%)	1,567	1,567	2,679	2,099	2,388	2,824	3,177	2,433	1,582	1,165	999	1,029
Critical Water Years (34%)	1,409	1,385	1,721	1,832	2,227	2,139	2,268	1,715	1,215	766	830	948

Table F.2.2-22-4c. San Joaquin River at Vernalis (60-20-20), Alt2wTUCPwoVA minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	107	-3	12	-3	153	-223	98	-22	-3	1	76	138
20% Exceedance	-35	27	11	8	103	14	-60	9	-7	-156	-23	21
30% Exceedance	1	-7	-1	77	28	89	-2	-61	1	4	26	3
40% Exceedance	-25	2	11	-10	165	-64	-88	-43	4	-22	47	4
50% Exceedance	-23	0	-12	12	31	-6	-33	-81	-22	72	40	-34
60% Exceedance	13	-20	-5	-15	4	20	8	-163	-61	11	10	30
70% Exceedance	-18	1	-3	-14	62	13	9	-22	30	19	22	21
80% Exceedance	-3	1	37	-8	15	11	6	-9	18	15	28	30
90% Exceedance	7	-1	1	-12	47	17	1	-7	48	11	-2	46
Full Simulation Period Average ^a	1	-2	19	-12	18	3	-36	-41	-26	-1	25	23
Wet Water Years (22%)	7	2	23	-88	-70	-70	-27	2	-86	-51	18	35
Above Normal Water Years (12%)	5	4	9	42	81	28	-34	-19	0	6	8	8
Below Normal Water Years (15%)	-10	-6	16	16	23	14	-134	-109	-37	-14	3	6
Dry Water Years (17%)	-16	-21	43	21	67	47	-46	-122	-54	-18	18	24
Critical Water Years (34%)	8	5	8	-10	27	14	6	-5	22	44	50	28

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-5a. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-5b. San Joaquin River at Vernalis (60-20-20), EXP3, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,388	2,695	5,207	11,134	16,569	15,652	14,902	16,138	11,135	3,241	2,771	2,919
20% Exceedance	2,611	2,167	2,547	5,108	11,929	10,597	9,357	8,668	4,976	2,087	1,263	1,716
30% Exceedance	1,811	1,925	2,001	3,727	7,535	8,305	6,654	4,926	2,621	1,219	871	1,064
40% Exceedance	1,533	1,605	1,718	2,576	5,128	5,083	5,269	3,816	1,958	1,144	753	864
50% Exceedance	1,275	1,412	1,437	2,048	3,141	2,795	3,130	2,563	1,345	853	675	667
60% Exceedance	1,146	1,211	1,301	1,870	2,260	2,357	2,356	1,874	1,073	691	602	597
70% Exceedance	1,052	1,065	1,156	1,608	2,009	2,084	2,042	1,616	981	581	534	558
80% Exceedance	1,004	982	1,051	1,482	1,787	1,804	1,832	1,369	923	513	489	512
90% Exceedance	943	925	933	1,278	1,472	1,634	1,656	1,177	836	456	408	441
Full Simulation Period Average^a	1,815	1,895	2,872	4,723	7,227	6,670	6,108	5,573	3,557	1,525	1,118	1,191
Wet Water Years (22%)	3,514	3,453	4,171	10,926	17,546	16,531	15,144	15,442	10,757	4,044	2,782	2,854
Above Normal Water Years (12%)	2,126	1,959	4,780	6,394	9,760	8,673	7,058	6,094	2,912	1,317	949	1,188
Below Normal Water Years (15%)	1,593	1,762	2,602	4,431	7,440	5,988	5,723	4,297	2,294	1,181	820	892
Dry Water Years (17%)	1,137	1,514	2,654	1,962	2,361	2,673	2,645	2,066	1,104	679	588	606
Critical Water Years (34%)	1,011	1,088	1,489	1,630	1,994	1,882	1,828	1,319	910	543	496	541

Table F.2.2-22-5c. San Joaquin River at Vernalis (60-20-20), EXP3 minus NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	112	23	183	1,398	1,203	997	1,341	3,212	2,374	-850	266	222
20% Exceedance	13	-77	-250	20	2,775	1,804	-154	1,001	644	-586	-438	59
30% Exceedance	-284	-78	-60	154	1,661	1,171	-1,286	-231	-333	-487	-578	-323
40% Exceedance	-352	-221	-64	-181	1,154	477	-1,163	-356	-419	-489	-567	-463
50% Exceedance	-502	-202	-199	-129	152	-25	-658	-477	-515	-409	-425	-531
60% Exceedance	-416	-248	-227	-46	-123	-141	-558	-522	-503	-464	-390	-438
70% Exceedance	-418	-291	-242	-156	-98	-120	-556	-474	-397	-412	-378	-395
80% Exceedance	-392	-285	-220	-205	-167	-247	-465	-450	-318	-175	-275	-361
90% Exceedance	-364	-285	-269	-308	-318	-300	-421	-378	-228	-117	-244	-324
Full Simulation Period Average^a	-245	-74	9	105	801	607	-291	160	63	-331	-279	-215
Wet Water Years (22%)	61	210	54	343	2,623	2,175	1,049	1,700	1,441	-318	36	246
Above Normal Water Years (12%)	-85	-34	372	637	1,435	1,208	-996	391	-132	-384	-361	-142
Below Normal Water Years (15%)	-289	-46	129	306	768	558	-1,045	-276	-341	-456	-531	-372
Dry Water Years (17%)	-445	-73	18	-117	40	-103	-578	-488	-532	-504	-393	-399
Critical Water Years (34%)	-390	-292	-224	-213	-206	-243	-434	-401	-283	-178	-284	-379

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-6a. San Joaquin River at Vernalis (60-20-20), EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (22%)	2,506	2,892	3,874	12,739	17,514	17,509	16,754	18,936	14,031	4,588	1,980	1,747
Above Normal Water Years (12%)	1,546	1,568	5,088	6,893	10,627	9,944	8,571	7,563	3,790	1,498	907	829
Below Normal Water Years (15%)	1,125	1,522	2,799	4,948	9,159	7,209	7,209	5,877	2,934	1,283	816	688
Dry Water Years (17%)	953	1,495	3,279	2,074	2,711	3,565	3,431	2,519	1,209	619	517	521
Critical Water Years (34%)	781	937	1,650	1,590	2,103	2,177	1,935	1,327	882	465	413	466

Table F.2.2-22-6b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,669	5,030	9,790	15,579	14,422	13,658	12,904	8,757	4,091	2,580	2,835
20% Exceedance	2,562	2,272	2,808	5,088	9,248	8,806	9,444	7,661	4,325	2,520	1,773	1,677
30% Exceedance	2,097	1,995	2,059	3,648	5,902	7,175	7,937	5,095	2,954	1,705	1,481	1,388
40% Exceedance	1,857	1,826	1,777	2,736	4,139	4,539	6,342	4,127	2,379	1,611	1,368	1,327
50% Exceedance	1,750	1,617	1,624	2,168	3,000	2,788	3,752	2,950	1,852	1,352	1,140	1,181
60% Exceedance	1,572	1,439	1,525	1,900	2,387	2,518	2,920	2,233	1,524	1,184	1,008	1,068
70% Exceedance	1,472	1,361	1,403	1,749	2,169	2,214	2,607	2,066	1,416	1,033	939	995
80% Exceedance	1,398	1,270	1,296	1,688	1,974	2,061	2,302	1,808	1,258	758	822	907
90% Exceedance	1,296	1,222	1,199	1,574	1,834	1,950	2,077	1,550	1,111	613	669	779
Full Simulation Period Average ^a	2,060	1,969	2,882	4,602	6,441	6,055	6,356	5,367	3,471	1,864	1,432	1,429
Wet Water Years (22%)	3,458	3,243	4,138	10,495	14,859	14,281	14,060	13,738	9,228	4,310	2,764	2,641
Above Normal Water Years (12%)	2,210	1,994	4,416	5,797	8,410	7,492	8,015	5,673	3,032	1,693	1,307	1,329
Below Normal Water Years (15%)	1,872	1,806	2,492	4,140	6,686	5,399	6,606	4,453	2,597	1,625	1,356	1,265
Dry Water Years (17%)	1,563	1,564	2,679	2,075	2,370	2,808	3,173	2,430	1,580	1,163	997	1,025
Critical Water Years (34%)	1,409	1,391	1,723	1,835	2,227	2,139	2,267	1,714	1,233	799	867	953

Table F.2.2-22-6c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,175	401	-772	-3,561	-3,059	-3,169	-2,676	-6,017	-4,961	480	777	1,406
20% Exceedance	813	551	-467	-2,264	-2,221	-3,238	-1,000	-3,774	-2,356	292	512	546
30% Exceedance	742	515	-36	-774	-2,969	-2,178	-373	-1,904	-314	327	626	606
40% Exceedance	655	474	124	-56	-1,875	-1,841	39	-1,018	44	520	672	645
50% Exceedance	758	438	217	-57	-716	-1,150	-1,159	-171	390	624	534	622
60% Exceedance	647	424	318	-89	-151	-631	98	14	365	605	505	549
70% Exceedance	632	423	305	3	-141	-388	364	463	451	502	477	494
80% Exceedance	616	421	396	195	-41	-61	419	461	425	333	406	465
90% Exceedance	623	439	424	384	189	132	471	452	333	223	326	398
Full Simulation Period Average ^a	719	337	-153	-663	-1,237	-1,418	-680	-1,468	-1,016	219	537	595
Wet Water Years (22%)	953	352	264	-2,244	-2,656	-3,228	-2,693	-5,198	-4,803	-278	784	894
Above Normal Water Years (12%)	665	426	-673	-1,096	-2,216	-2,452	-555	-1,891	-758	195	399	500
Below Normal Water Years (15%)	747	284	-307	-809	-2,473	-1,810	-603	-1,424	-337	342	540	577
Dry Water Years (17%)	610	69	-600	1	-341	-757	-258	-89	371	543	480	504
Critical Water Years (34%)	628	454	73	245	124	-39	333	387	350	334	454	487

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-7a. San Joaquin River at Vernalis (60-20-20), EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (22%)	2,506	2,892	3,874	12,739	17,514	17,509	16,754	18,936	14,031	4,588	1,980	1,747
Above Normal Water Years (12%)	1,546	1,568	5,088	6,893	10,627	9,944	8,571	7,563	3,790	1,498	907	829
Below Normal Water Years (15%)	1,125	1,522	2,799	4,948	9,159	7,209	7,209	5,877	2,934	1,283	816	688
Dry Water Years (17%)	953	1,495	3,279	2,074	2,711	3,565	3,431	2,519	1,209	619	517	521
Critical Water Years (34%)	781	937	1,650	1,590	2,103	2,177	1,935	1,327	882	465	413	466

Table F.2.2-22-7b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPDeltaVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,382	2,668	5,032	9,808	15,578	14,430	13,662	12,914	8,756	4,090	2,579	2,834
20% Exceedance	2,558	2,267	2,807	5,091	9,252	8,805	9,458	7,857	4,322	2,516	1,756	1,676
30% Exceedance	2,096	1,995	2,059	3,651	5,894	7,175	7,935	5,095	2,954	1,706	1,479	1,388
40% Exceedance	1,857	1,825	1,778	2,737	4,142	4,536	6,420	4,124	2,379	1,609	1,371	1,329
50% Exceedance	1,742	1,616	1,624	2,168	3,001	2,886	3,848	2,960	1,854	1,354	1,137	1,182
60% Exceedance	1,557	1,446	1,530	1,898	2,447	2,591	2,946	2,230	1,525	1,183	1,005	1,066
70% Exceedance	1,472	1,359	1,405	1,750	2,168	2,333	2,682	2,075	1,415	1,034	941	978
80% Exceedance	1,405	1,266	1,305	1,697	1,987	2,136	2,308	1,806	1,278	760	827	909
90% Exceedance	1,312	1,228	1,211	1,576	1,851	2,019	2,162	1,573	1,105	606	669	794
Full Simulation Period Average ^a	2,058	1,968	2,882	4,602	6,449	6,103	6,387	5,378	3,474	1,864	1,431	1,430
Wet Water Years (22%)	3,458	3,243	4,139	10,494	14,853	14,282	14,069	13,744	9,231	4,309	2,762	2,640
Above Normal Water Years (12%)	2,210	1,994	4,416	5,797	8,411	7,492	8,046	5,713	3,032	1,695	1,306	1,329
Below Normal Water Years (15%)	1,874	1,807	2,493	4,142	6,686	5,405	6,635	4,460	2,596	1,624	1,355	1,265
Dry Water Years (17%)	1,554	1,565	2,681	2,076	2,373	2,856	3,204	2,432	1,581	1,163	996	1,025
Critical Water Years (34%)	1,409	1,389	1,720	1,834	2,252	2,252	2,313	1,725	1,240	799	866	957

Table F.2.2-22-7c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPDeltaVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,174	401	-770	-3,543	-3,060	-3,160	-2,672	-6,007	-4,963	479	776	1,405
20% Exceedance	810	546	-468	-2,261	-2,217	-3,240	-987	-3,579	-2,359	288	494	545
30% Exceedance	741	515	-37	-771	-2,977	-2,178	-375	-1,904	-313	328	624	606
40% Exceedance	654	472	125	-55	-1,873	-1,843	118	-1,021	45	517	675	646
50% Exceedance	751	436	216	-57	-715	-1,052	-1,063	-161	391	626	531	624
60% Exceedance	632	430	323	-91	-92	-558	124	10	366	605	501	548
70% Exceedance	631	421	306	3	-143	-269	440	472	450	502	479	477
80% Exceedance	624	417	405	204	-28	14	425	459	445	335	410	467
90% Exceedance	639	445	435	385	206	200	556	475	327	216	326	413
Full Simulation Period Average ^a	718	336	-154	-663	-1,229	-1,370	-650	-1,456	-1,013	219	536	595
Wet Water Years (22%)	952	351	265	-2,245	-2,661	-3,227	-2,684	-5,192	-4,800	-279	782	893
Above Normal Water Years (12%)	665	426	-673	-1,096	-2,216	-2,452	-525	-1,850	-758	197	399	500
Below Normal Water Years (15%)	749	285	-307	-807	-2,473	-1,804	-574	-1,417	-339	341	539	577
Dry Water Years (17%)	601	69	-598	2	-339	-710	-227	-87	372	544	479	505
Critical Water Years (34%)	628	452	71	244	149	75	378	398	357	333	452	490

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-8a. San Joaquin River at Vernalis (60-20-20), EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (22%)	2,506	2,892	3,874	12,739	17,514	17,509	16,754	18,936	14,031	4,588	1,980	1,747
Above Normal Water Years (12%)	1,546	1,568	5,088	6,893	10,627	9,944	8,571	7,563	3,790	1,498	907	829
Below Normal Water Years (15%)	1,125	1,522	2,799	4,948	9,159	7,209	7,209	5,877	2,934	1,283	816	688
Dry Water Years (17%)	953	1,495	3,279	2,074	2,711	3,565	3,431	2,519	1,209	619	517	521
Critical Water Years (34%)	781	937	1,650	1,590	2,103	2,177	1,935	1,327	882	465	413	466

Table F.2.2-22-8b. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPAIIVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,368	2,669	5,031	9,799	15,861	14,425	13,671	12,915	8,758	4,099	2,580	2,835
20% Exceedance	2,562	2,273	2,808	5,092	9,253	8,806	9,457	7,660	4,324	2,556	1,770	1,677
30% Exceedance	2,097	1,995	2,060	3,650	5,896	7,176	7,938	5,095	2,954	1,859	1,485	1,388
40% Exceedance	1,855	1,826	1,793	2,738	4,142	4,541	6,432	4,125	2,385	1,668	1,378	1,334
50% Exceedance	1,747	1,616	1,623	2,168	3,001	2,887	3,847	2,961	1,859	1,403	1,148	1,200
60% Exceedance	1,582	1,442	1,531	1,899	2,450	2,589	2,948	2,237	1,526	1,215	1,026	1,066
70% Exceedance	1,454	1,360	1,403	1,752	2,169	2,338	2,683	2,077	1,418	1,044	943	1,002
80% Exceedance	1,393	1,267	1,308	1,679	1,987	2,138	2,308	1,801	1,278	869	826	923
90% Exceedance	1,276	1,201	1,187	1,576	1,852	2,031	2,163	1,574	1,080	589	665	781
Full Simulation Period Average ^a	2,058	1,967	2,882	4,611	6,453	6,107	6,389	5,378	3,476	1,920	1,438	1,433
Wet Water Years (22%)	3,458	3,244	4,140	10,530	14,848	14,281	14,073	13,750	9,233	4,347	2,767	2,642
Above Normal Water Years (12%)	2,211	1,994	4,416	5,798	8,447	7,494	8,049	5,686	3,033	1,791	1,311	1,329
Below Normal Water Years (15%)	1,875	1,807	2,492	4,140	6,688	5,415	6,641	4,462	2,597	1,753	1,370	1,273
Dry Water Years (17%)	1,563	1,565	2,686	2,086	2,378	2,863	3,204	2,434	1,581	1,232	1,003	1,029
Critical Water Years (34%)	1,404	1,385	1,716	1,833	2,253	2,255	2,314	1,727	1,242	814	871	959

Table F.2.2-22-8c. San Joaquin River at Vernalis (60-20-20), Alt2woTUCPAIIVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,160	401	-770	-3,552	-2,777	-3,165	-2,663	-6,005	-4,961	489	777	1,406
20% Exceedance	814	551	-467	-2,260	-2,216	-3,238	-987	-3,775	-2,357	328	508	546
30% Exceedance	742	515	-35	-771	-2,975	-2,177	-372	-1,904	-313	482	630	606
40% Exceedance	653	474	140	-53	-1,872	-1,839	129	-1,020	51	576	682	652
50% Exceedance	755	436	215	-57	-716	-1,051	-1,064	-161	396	675	542	641
60% Exceedance	657	426	323	-90	-89	-560	125	18	367	637	523	547
70% Exceedance	614	422	305	6	-142	-264	440	473	453	512	480	501
80% Exceedance	612	418	408	186	-28	16	425	455	445	444	410	480
90% Exceedance	604	418	412	386	207	213	557	476	301	199	322	399
Full Simulation Period Average ^a	718	335	-154	-654	-1,225	-1,366	-647	-1,457	-1,011	275	543	598
Wet Water Years (22%)	952	352	266	-2,209	-2,667	-3,228	-2,681	-5,186	-4,798	-241	787	895
Above Normal Water Years (12%)	665	426	-672	-1,095	-2,180	-2,450	-522	-1,877	-757	294	403	500
Below Normal Water Years (15%)	749	285	-308	-809	-2,471	-1,794	-568	-1,415	-337	470	553	584
Dry Water Years (17%)	610	70	-593	12	-333	-702	-227	-85	372	613	486	508
Critical Water Years (34%)	624	448	66	243	150	78	379	400	360	348	458	493

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-9a. San Joaquin River at Vernalis (60-20-20), EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (22%)	2,506	2,892	3,874	12,739	17,514	17,509	16,754	18,936	14,031	4,588	1,980	1,747
Above Normal Water Years (12%)	1,546	1,568	5,088	6,893	10,627	9,944	8,571	7,563	3,790	1,498	907	829
Below Normal Water Years (15%)	1,125	1,522	2,799	4,948	9,159	7,209	7,209	5,877	2,934	1,283	816	688
Dry Water Years (17%)	953	1,495	3,279	2,074	2,711	3,565	3,431	2,519	1,209	619	517	521
Critical Water Years (34%)	781	937	1,650	1,590	2,103	2,177	1,935	1,327	882	465	413	466

Table F.2.2-22-9b. San Joaquin River at Vernalis (60-20-20), Alt2wTUCPwoVA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,383	2,668	5,036	9,734	15,519	14,432	13,659	12,904	8,757	4,091	2,581	2,835
20% Exceedance	2,563	2,272	2,808	5,096	9,256	8,808	9,451	7,676	4,325	2,516	1,678	1,678
30% Exceedance	2,097	1,997	2,060	3,650	5,903	7,223	7,938	5,097	2,956	1,709	1,475	1,391
40% Exceedance	1,861	1,828	1,792	2,747	4,140	4,543	6,343	4,128	2,380	1,612	1,367	1,330
50% Exceedance	1,754	1,614	1,625	2,189	3,020	2,814	3,755	2,959	1,837	1,334	1,140	1,163
60% Exceedance	1,575	1,439	1,522	1,900	2,387	2,518	2,922	2,234	1,515	1,167	1,003	1,066
70% Exceedance	1,452	1,358	1,395	1,750	2,169	2,217	2,607	2,068	1,408	1,011	934	974
80% Exceedance	1,394	1,268	1,308	1,680	1,970	2,062	2,302	1,809	1,259	702	792	903
90% Exceedance	1,314	1,208	1,203	1,574	1,837	1,951	2,078	1,549	1,112	584	650	811
Full Simulation Period Average ^a	2,061	1,967	2,882	4,606	6,444	6,066	6,363	5,372	3,468	1,855	1,422	1,430
Wet Water Years (22%)	3,459	3,245	4,140	10,495	14,853	14,286	14,068	13,744	9,230	4,311	2,764	2,643
Above Normal Water Years (12%)	2,216	1,998	4,418	5,799	8,406	7,493	8,020	5,683	3,045	1,708	1,319	1,338
Below Normal Water Years (15%)	1,873	1,801	2,490	4,140	6,695	5,444	6,634	4,465	2,598	1,624	1,354	1,270
Dry Water Years (17%)	1,567	1,567	2,679	2,099	2,388	2,824	3,177	2,433	1,582	1,165	999	1,029
Critical Water Years (34%)	1,409	1,385	1,721	1,832	2,227	2,139	2,268	1,715	1,215	766	830	948

Table F.2.2-22-9c. San Joaquin River at Vernalis (60-20-20), Alt2wTUCPwoVA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,175	400	-766	-3,618	-3,119	-3,158	-2,675	-6,017	-4,961	480	778	1,406
20% Exceedance	814	551	-467	-2,256	-2,212	-3,237	-993	-3,759	-2,356	289	417	547
30% Exceedance	742	516	-35	-771	-2,968	-2,130	-372	-1,902	-312	331	620	609
40% Exceedance	658	476	140	-44	-1,875	-1,837	40	-1,017	46	520	671	647
50% Exceedance	762	435	217	-36	-697	-1,123	-1,156	-162	375	606	535	605
60% Exceedance	650	423	315	-89	-152	-631	99	14	356	588	499	547
70% Exceedance	612	420	297	3	-141	-385	364	465	443	480	472	473
80% Exceedance	613	418	407	187	-44	-61	419	463	426	278	375	460
90% Exceedance	642	425	428	384	192	132	472	451	333	195	307	429
Full Simulation Period Average ^a	721	336	-154	-659	-1,234	-1,407	-673	-1,462	-1,019	210	526	596
Wet Water Years (22%)	954	354	266	-2,244	-2,661	-3,223	-2,686	-5,192	-4,800	-277	784	895
Above Normal Water Years (12%)	670	429	-671	-1,094	-2,220	-2,451	-550	-1,880	-745	210	412	508
Below Normal Water Years (15%)	747	279	-310	-808	-2,464	-1,765	-576	-1,412	-337	340	538	582
Dry Water Years (17%)	614	72	-600	25	-323	-742	-254	-86	373	546	482	509
Critical Water Years (34%)	629	448	71	243	124	-38	333	388	333	300	417	482

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-22-10a. San Joaquin River at Vernalis (60-20-20), EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	2,208	2,268	5,802	13,351	18,638	17,590	16,334	18,921	13,719	3,611	1,803	1,429
20% Exceedance	1,748	1,721	3,275	7,352	11,469	12,045	10,444	11,435	6,681	2,228	1,261	1,131
30% Exceedance	1,355	1,480	2,095	4,422	8,871	9,353	8,310	6,999	3,268	1,378	855	782
40% Exceedance	1,203	1,352	1,653	2,791	6,014	6,380	6,303	5,145	2,334	1,092	695	683
50% Exceedance	992	1,179	1,408	2,226	3,716	3,937	4,911	3,122	1,463	728	605	559
60% Exceedance	925	1,016	1,207	1,989	2,539	3,148	2,823	2,219	1,159	578	504	519
70% Exceedance	840	938	1,098	1,746	2,310	2,602	2,243	1,604	965	532	463	501
80% Exceedance	782	850	900	1,493	2,015	2,122	1,883	1,347	833	424	417	442
90% Exceedance	672	783	776	1,190	1,645	1,819	1,606	1,098	779	390	343	382
Full Simulation Period Average ^a	1,341	1,632	3,036	5,265	7,678	7,473	7,037	6,834	4,487	1,645	895	834
Wet Water Years (22%)	2,506	2,892	3,874	12,739	17,514	17,509	16,754	18,936	14,031	4,588	1,980	1,747
Above Normal Water Years (12%)	1,546	1,568	5,088	6,893	10,627	9,944	8,571	7,563	3,790	1,498	907	829
Below Normal Water Years (15%)	1,125	1,522	2,799	4,948	9,159	7,209	7,209	5,877	2,934	1,283	816	688
Dry Water Years (17%)	953	1,495	3,279	2,074	2,711	3,565	3,431	2,519	1,209	619	517	521
Critical Water Years (34%)	781	937	1,650	1,590	2,103	2,177	1,935	1,327	882	465	413	466

Table F.2.2-22-10b. San Joaquin River at Vernalis (60-20-20), NAA, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	3,276	2,671	5,024	9,736	15,366	14,656	13,561	12,926	8,761	4,090	2,505	2,697
20% Exceedance	2,598	2,245	2,797	5,088	9,153	8,793	9,511	7,667	4,332	2,672	1,701	1,656
30% Exceedance	2,096	2,003	2,061	3,573	5,874	7,134	7,940	5,157	2,955	1,705	1,449	1,387
40% Exceedance	1,885	1,826	1,781	2,757	3,975	4,606	6,432	4,171	2,377	1,633	1,320	1,326
50% Exceedance	1,777	1,614	1,637	2,177	2,989	2,820	3,788	3,041	1,860	1,262	1,100	1,197
60% Exceedance	1,562	1,459	1,527	1,916	2,383	2,498	2,914	2,397	1,576	1,155	992	1,035
70% Exceedance	1,469	1,357	1,398	1,764	2,107	2,204	2,599	2,090	1,378	992	912	953
80% Exceedance	1,397	1,267	1,270	1,688	1,955	2,051	2,296	1,818	1,241	687	764	873
90% Exceedance	1,308	1,210	1,202	1,586	1,790	1,934	2,077	1,555	1,064	574	652	765
Full Simulation Period Average ^a	2,061	1,969	2,863	4,618	6,425	6,063	6,399	5,413	3,494	1,856	1,396	1,407
Wet Water Years (22%)	3,453	3,243	4,117	10,583	14,923	14,356	14,094	13,742	9,316	4,362	2,746	2,608
Above Normal Water Years (12%)	2,211	1,994	4,408	5,757	8,325	7,466	8,055	5,703	3,044	1,701	1,311	1,330
Below Normal Water Years (15%)	1,882	1,808	2,473	4,125	6,672	5,430	6,768	4,574	2,634	1,638	1,351	1,264
Dry Water Years (17%)	1,582	1,588	2,636	2,079	2,321	2,776	3,223	2,555	1,636	1,183	981	1,005
Critical Water Years (34%)	1,401	1,380	1,713	1,843	2,200	2,125	2,262	1,720	1,193	721	780	920

Table F.2.2-22-10c. San Joaquin River at Vernalis (60-20-20), NAA minus EXP1, Monthly Flow (cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,068	404	-778	-3,615	-3,272	-2,935	-2,773	-5,995	-4,958	480	703	1,268
20% Exceedance	850	524	-478	-2,264	-2,315	-3,251	-933	-3,768	-2,349	445	440	526
30% Exceedance	741	523	-35	-849	-2,997	-2,219	-370	-1,842	-313	328	594	605
40% Exceedance	683	474	129	-35	-2,040	-1,773	129	-974	42	542	625	644
50% Exceedance	786	435	229	-48	-727	-1,118	-1,123	-81	397	534	495	639
60% Exceedance	637	443	320	-73	-156	-651	91	177	417	577	489	516
70% Exceedance	629	419	300	17	-203	-399	356	487	413	461	449	452
80% Exceedance	615	417	370	195	-60	-72	414	472	407	263	347	430
90% Exceedance	635	427	426	396	145	116	471	458	285	184	309	383
Full Simulation Period Average ^a	720	337	-172	-647	-1,253	-1,410	-637	-1,422	-994	211	501	572
Wet Water Years (22%)	947	351	243	-2,156	-2,591	-3,153	-2,659	-5,194	-4,715	-226	766	861
Above Normal Water Years (12%)	666	425	-680	-1,135	-2,302	-2,478	-516	-1,861	-746	204	403	501
Below Normal Water Years (15%)	757	285	-326	-824	-2,487	-1,780	-441	-1,303	-300	354	535	575
Dry Water Years (17%)	630	92	-643	4	-390	-789	-208	36	427	564	465	484
Critical Water Years (34%)	621	443	63	253	97	-53	327	393	310	256	367	454

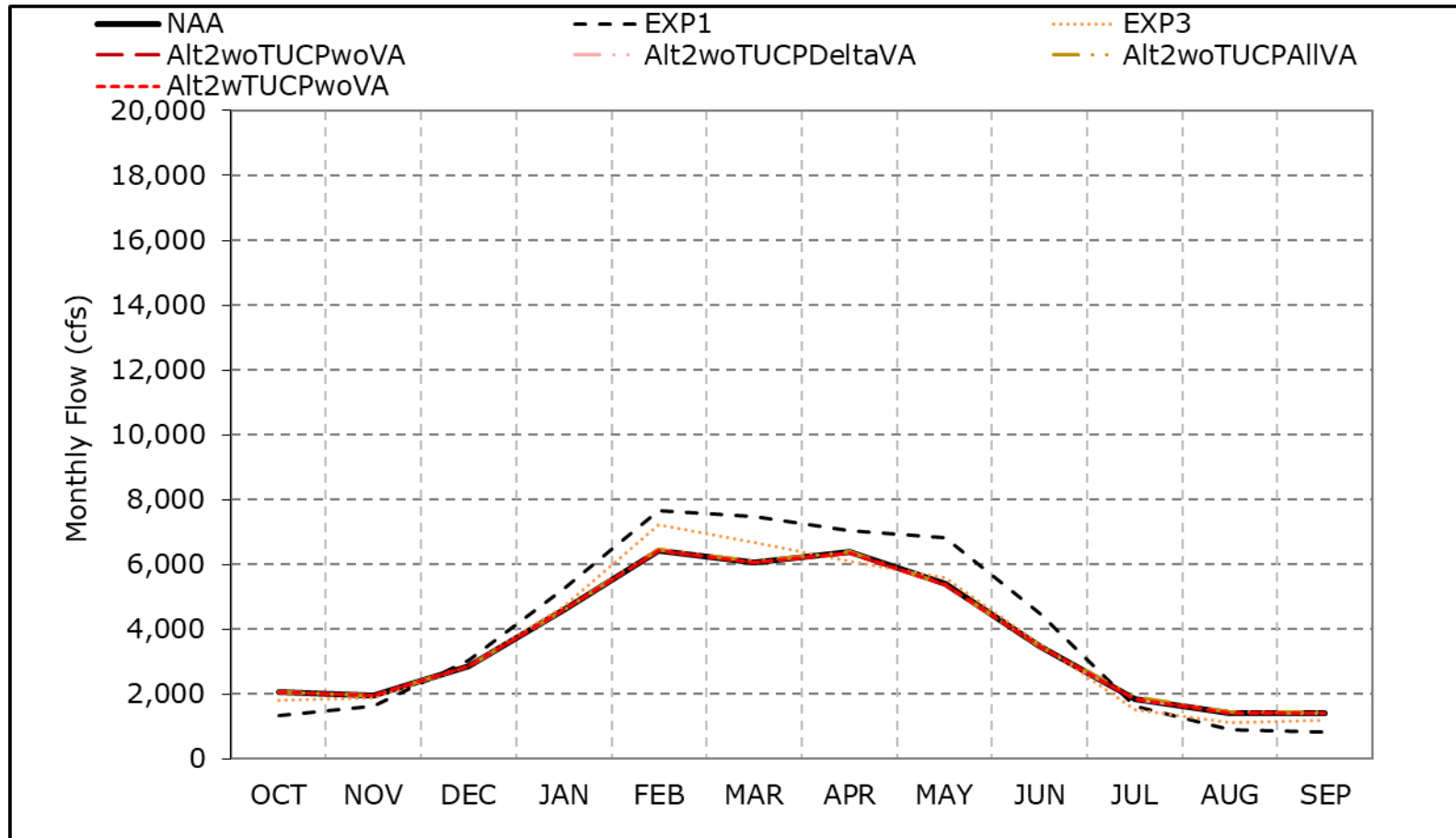
^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Figure F.2.2-22-1. San Joaquin River at Vernalis (60-20-20), Long-Term Average Flow

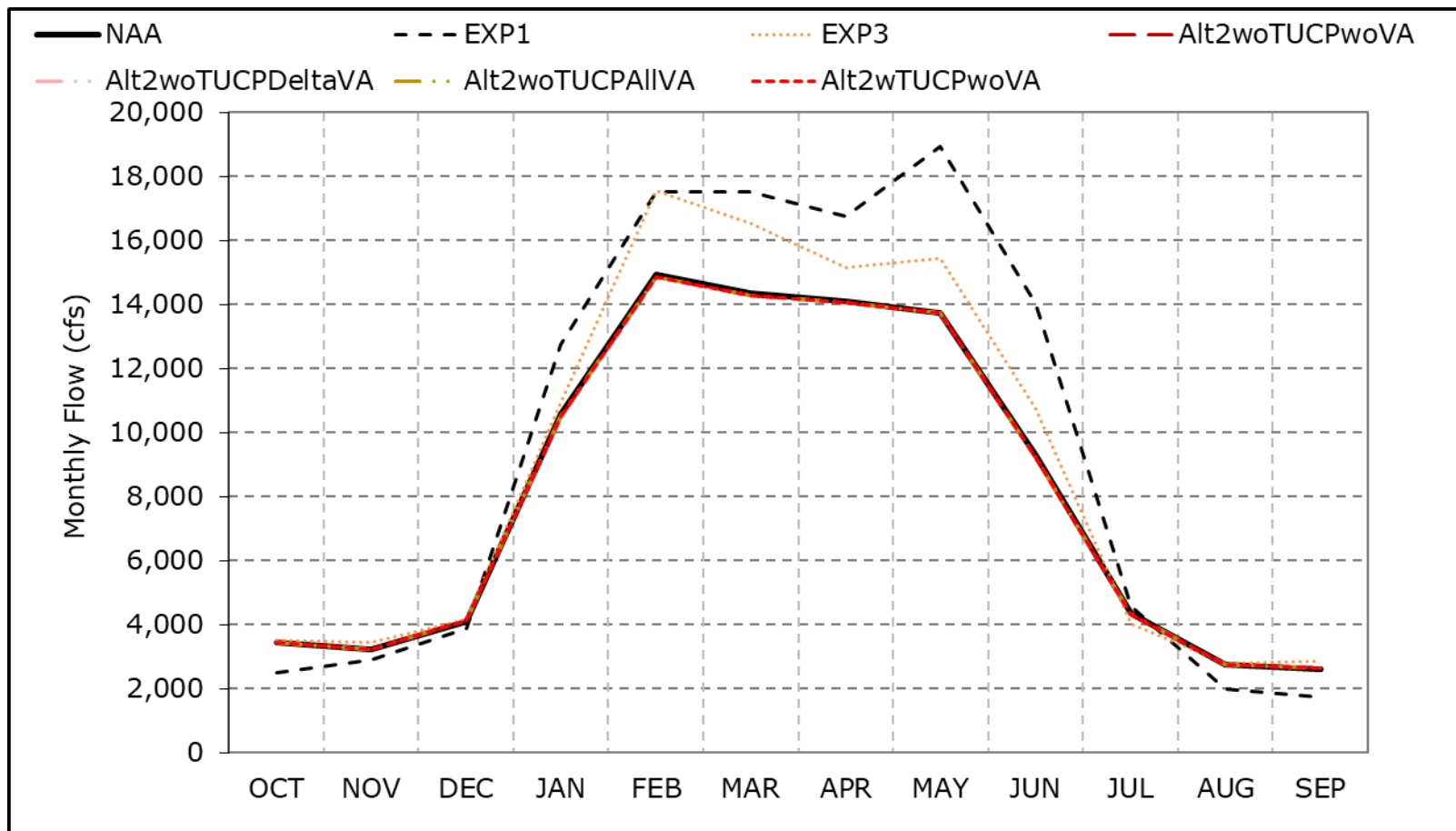


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-2. San Joaquin River at Vernalis (60-20-20), Wet Year Average Flow

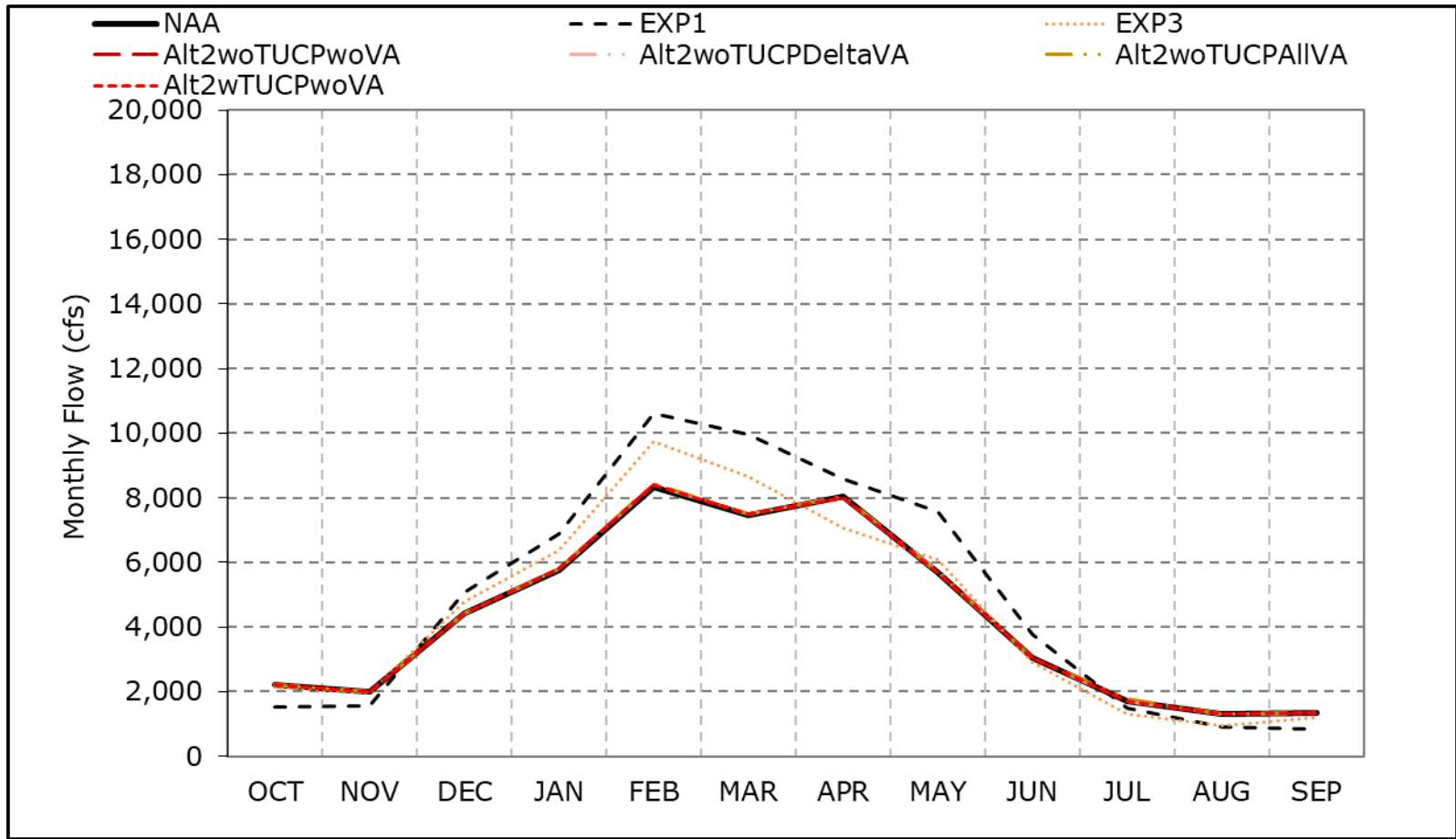


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-3. San Joaquin River at Vernalis (60-20-20), Above Normal Year Average Flow

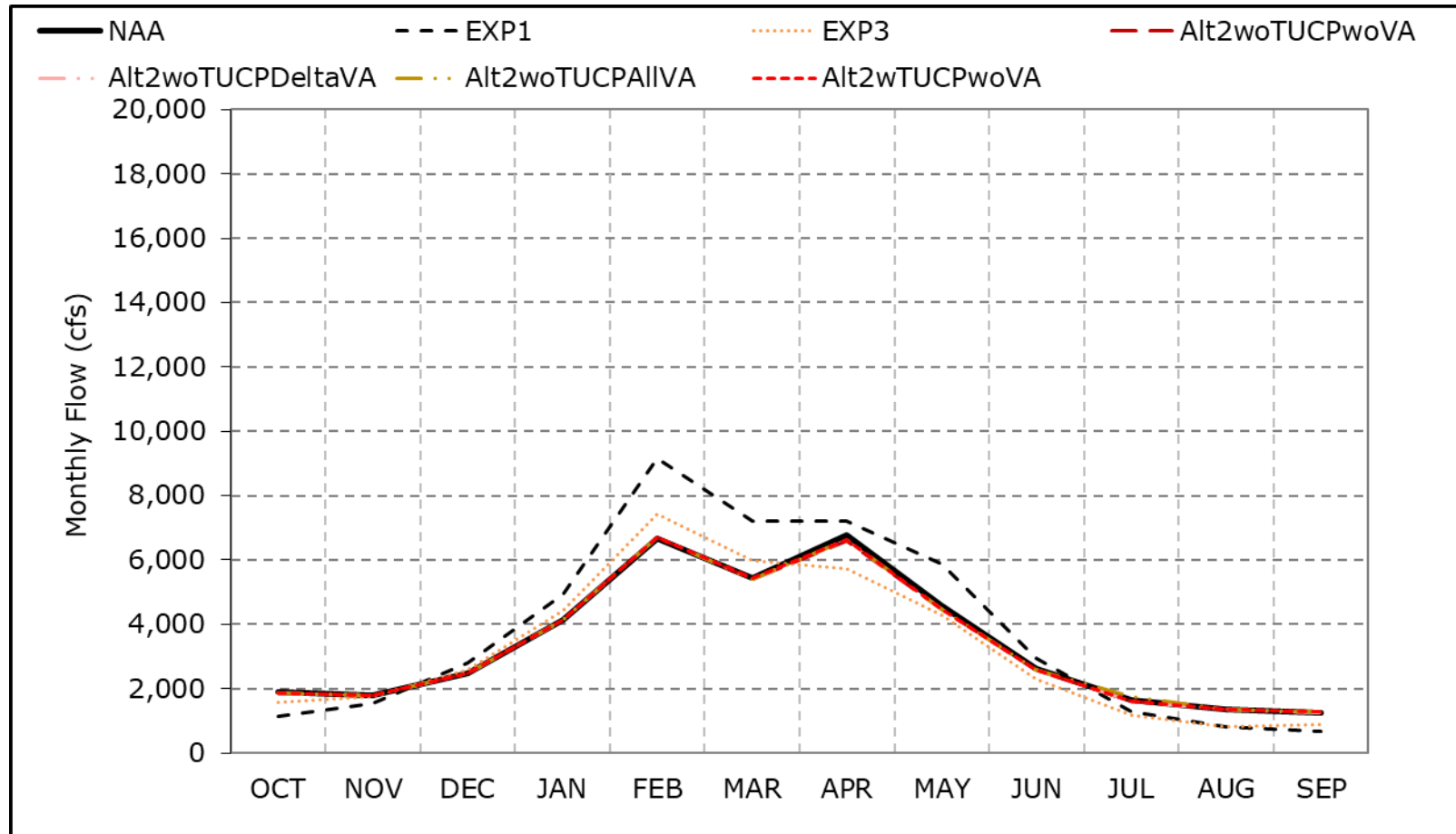


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-4. San Joaquin River at Vernalis (60-20-20), Below Normal Year Average Flow

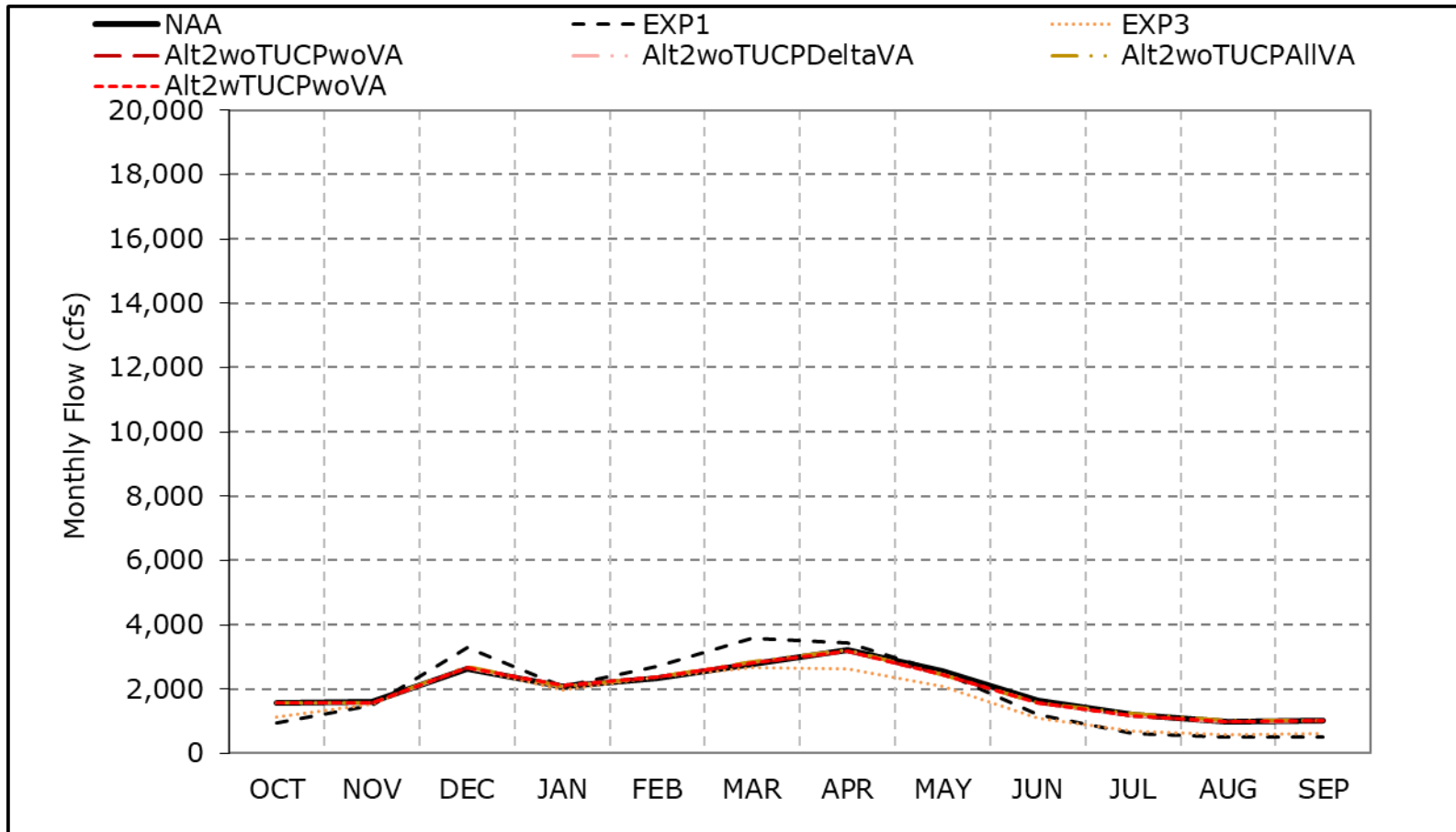


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-5. San Joaquin River at Vernalis (60-20-20), Dry Year Average Flow

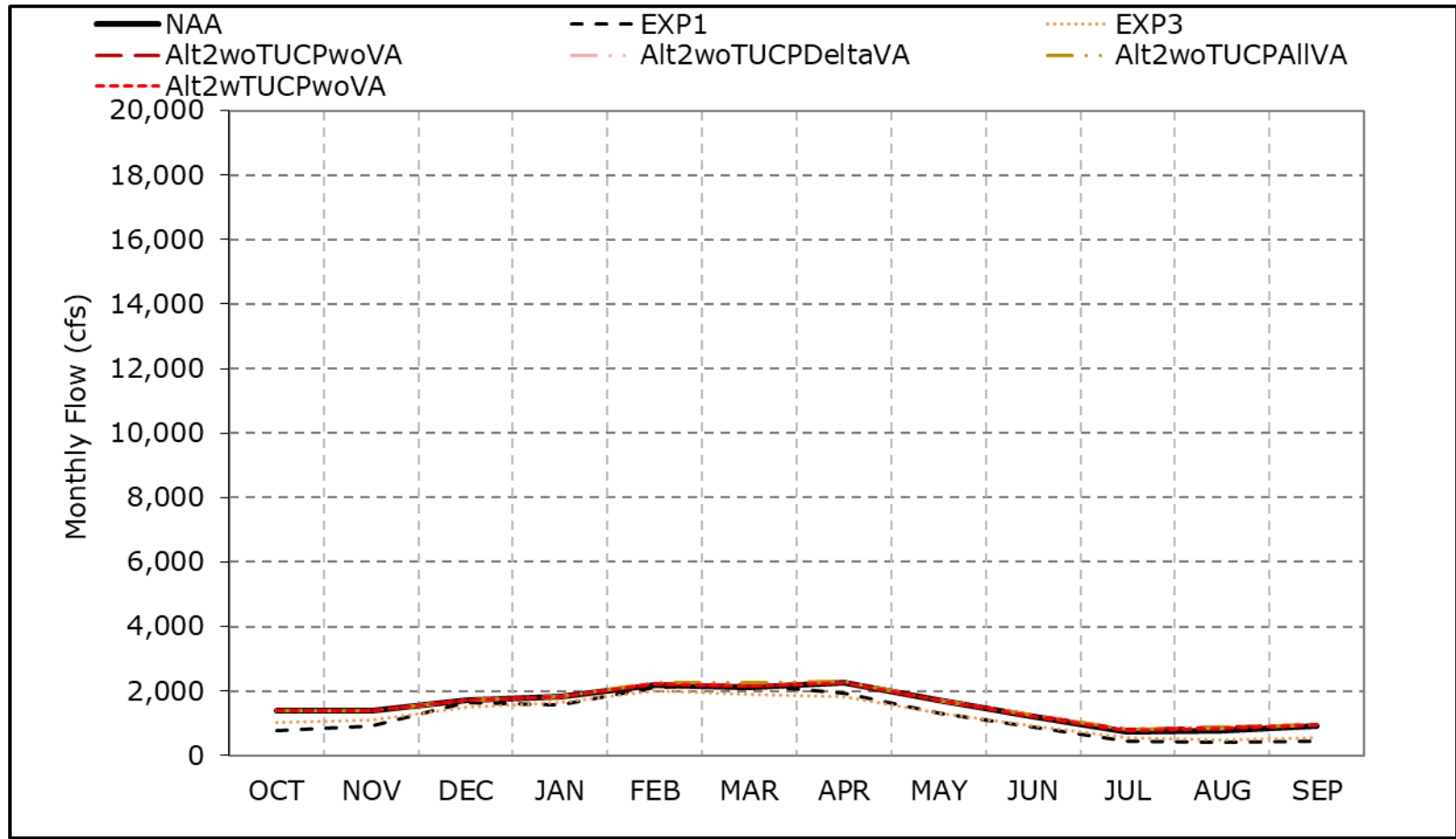


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-6. San Joaquin River at Vernalis (60-20-20), Critical Year Average Flow

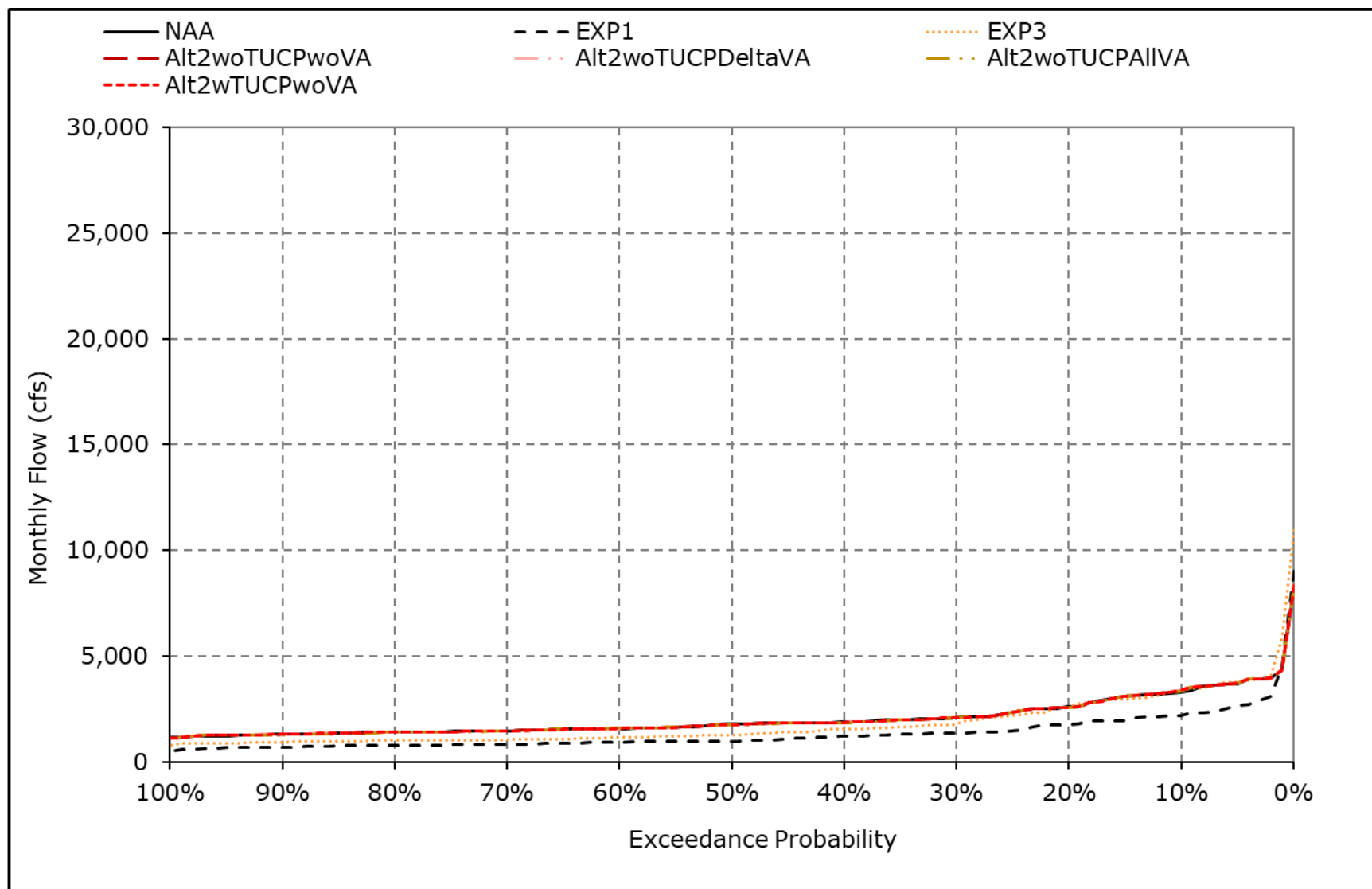


*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

*Water Year Types results are displayed with calendar year – year type sorting.

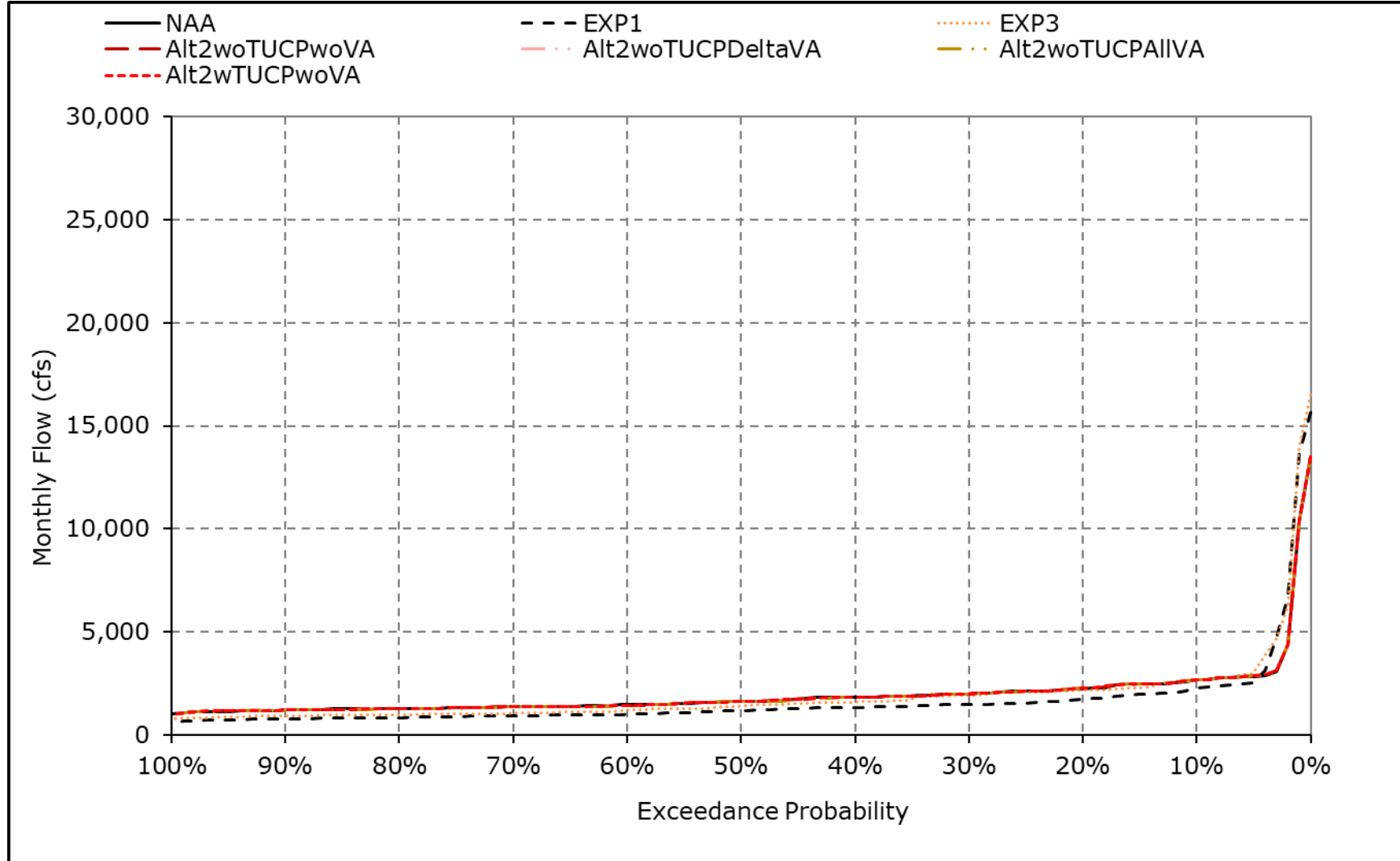
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-7. San Joaquin River at Vernalis (60-20-20), October



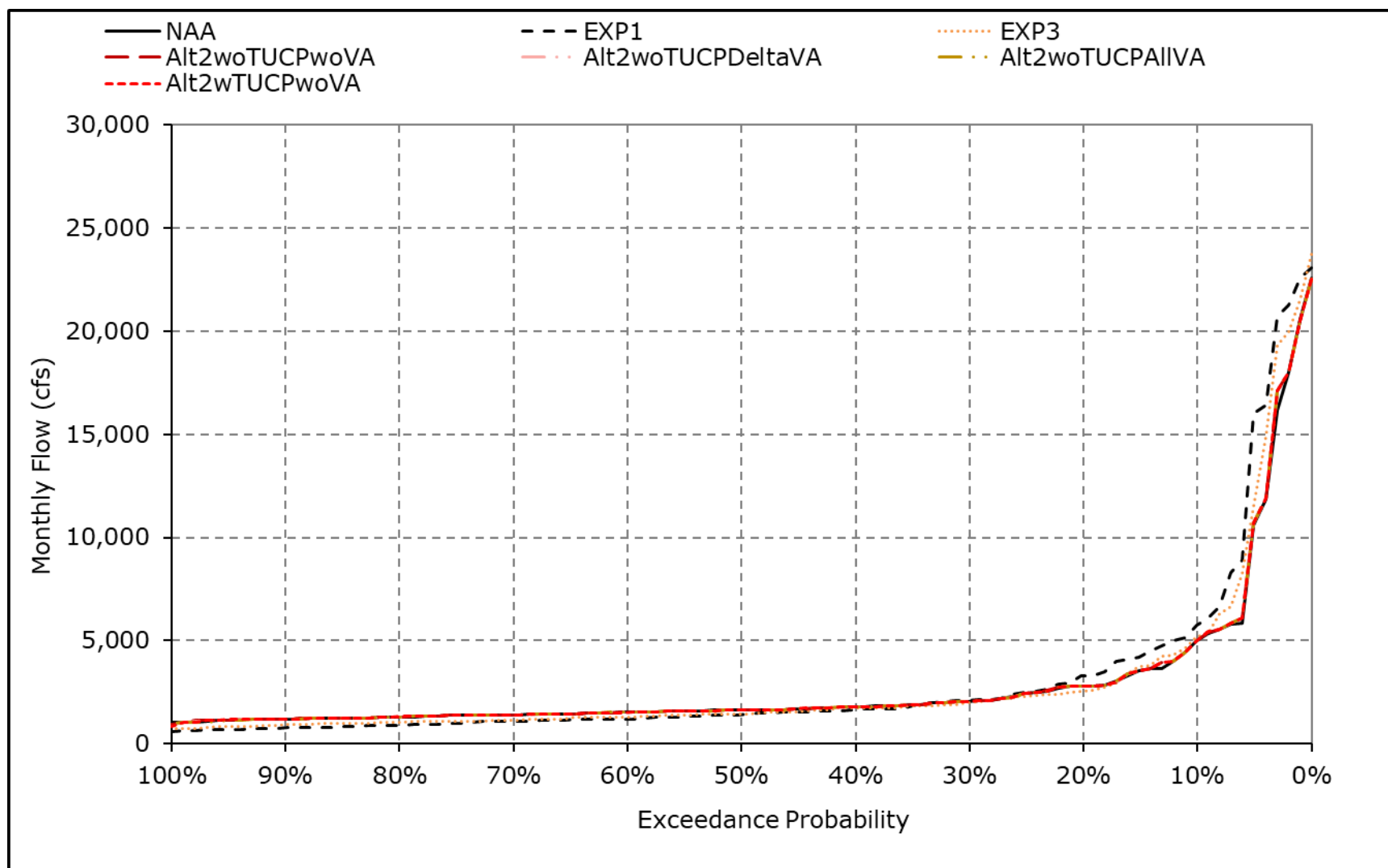
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-8. San Joaquin River at Vernalis (60-20-20), November



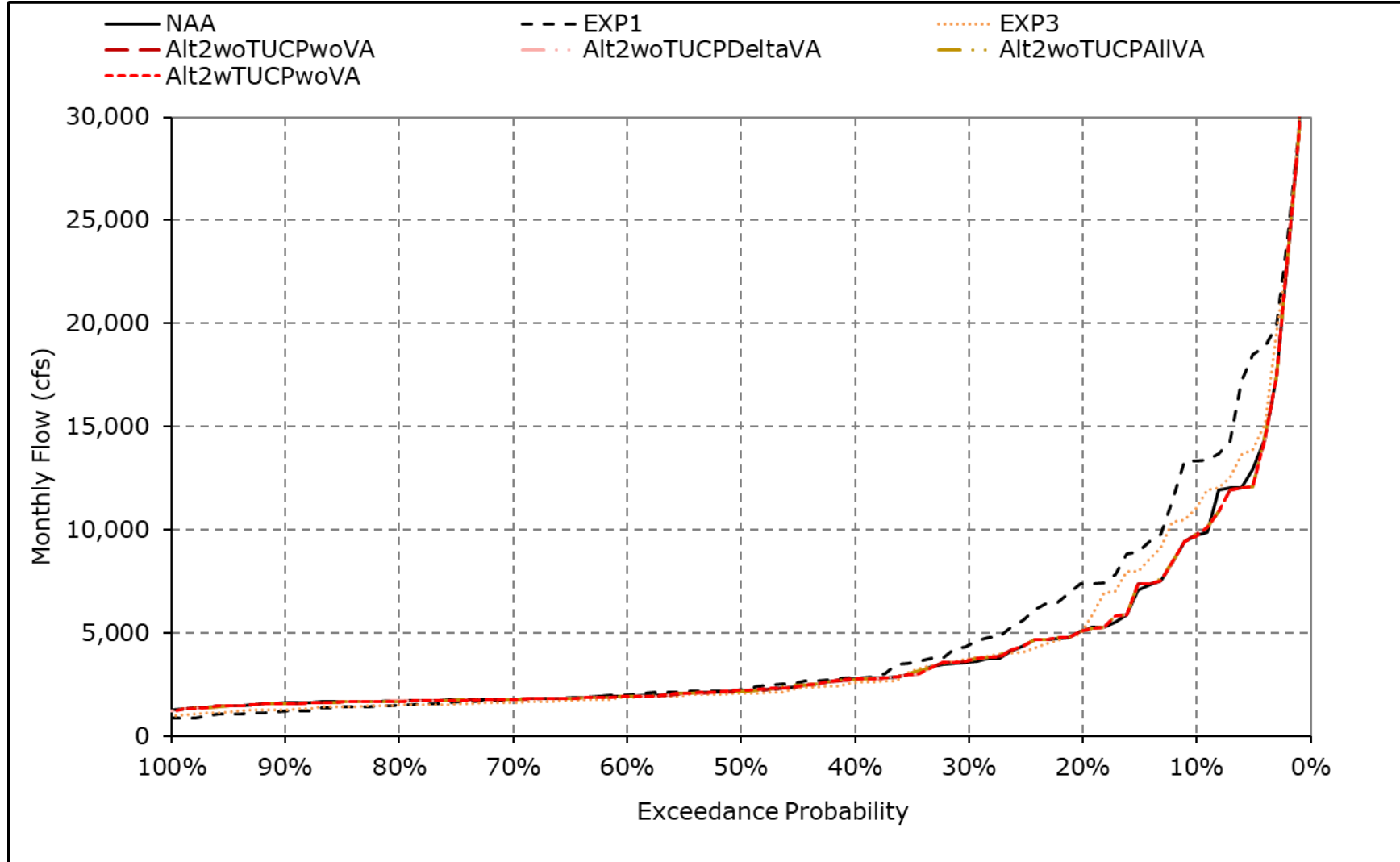
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-9. San Joaquin River at Vernalis (60-20-20), December



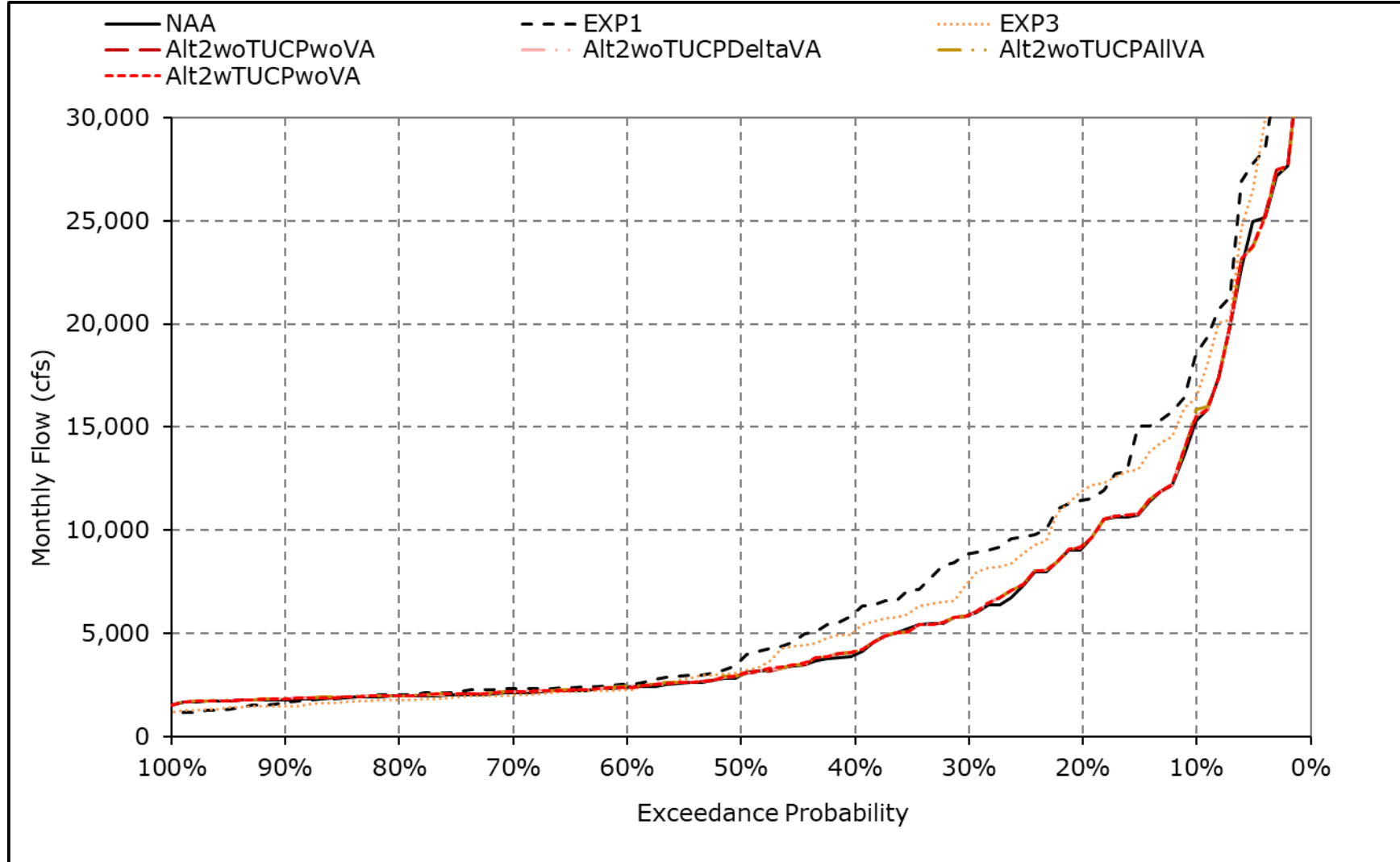
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-10. San Joaquin River at Vernalis (60-20-20), January



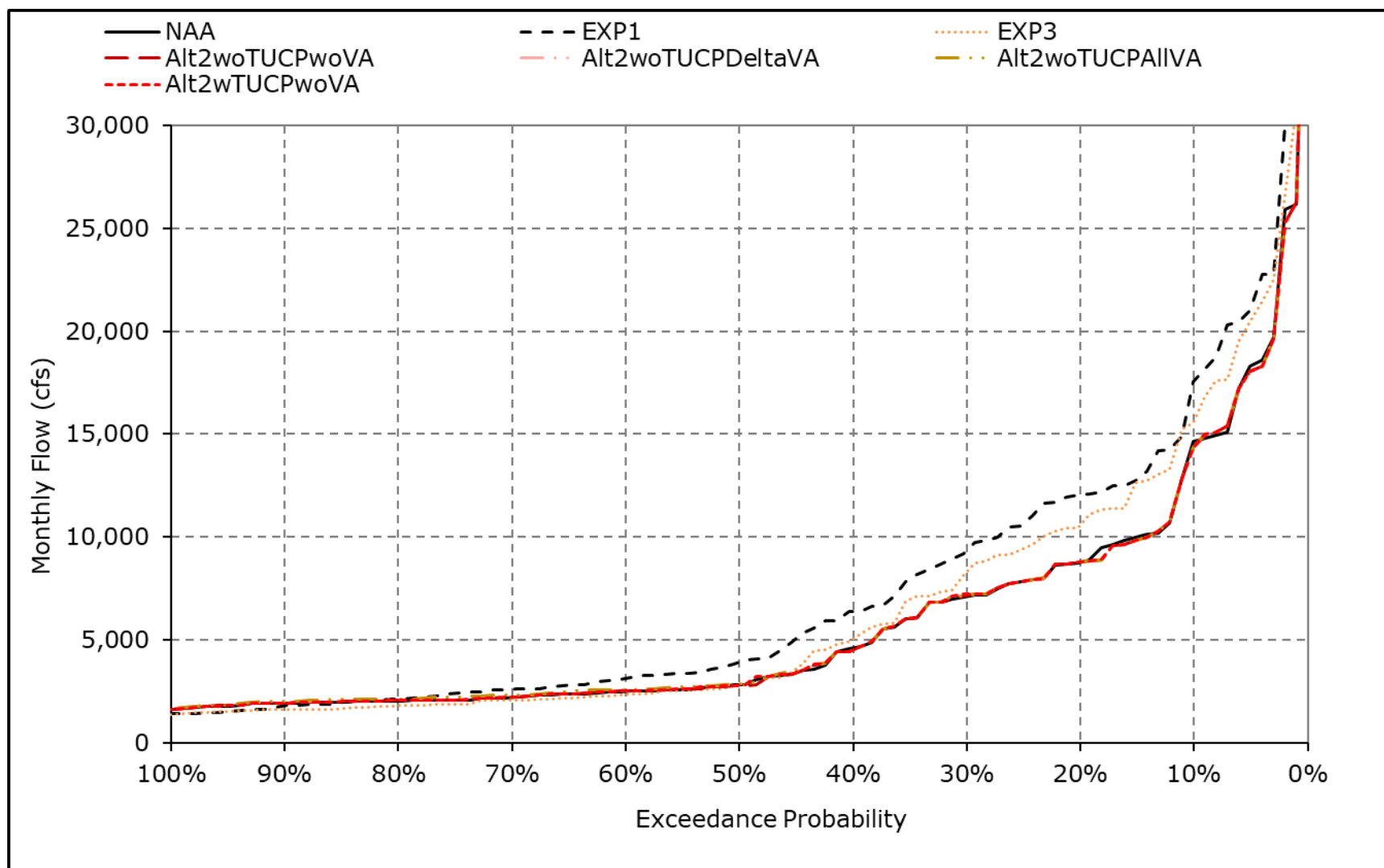
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-11. San Joaquin River at Vernalis (60-20-20), February



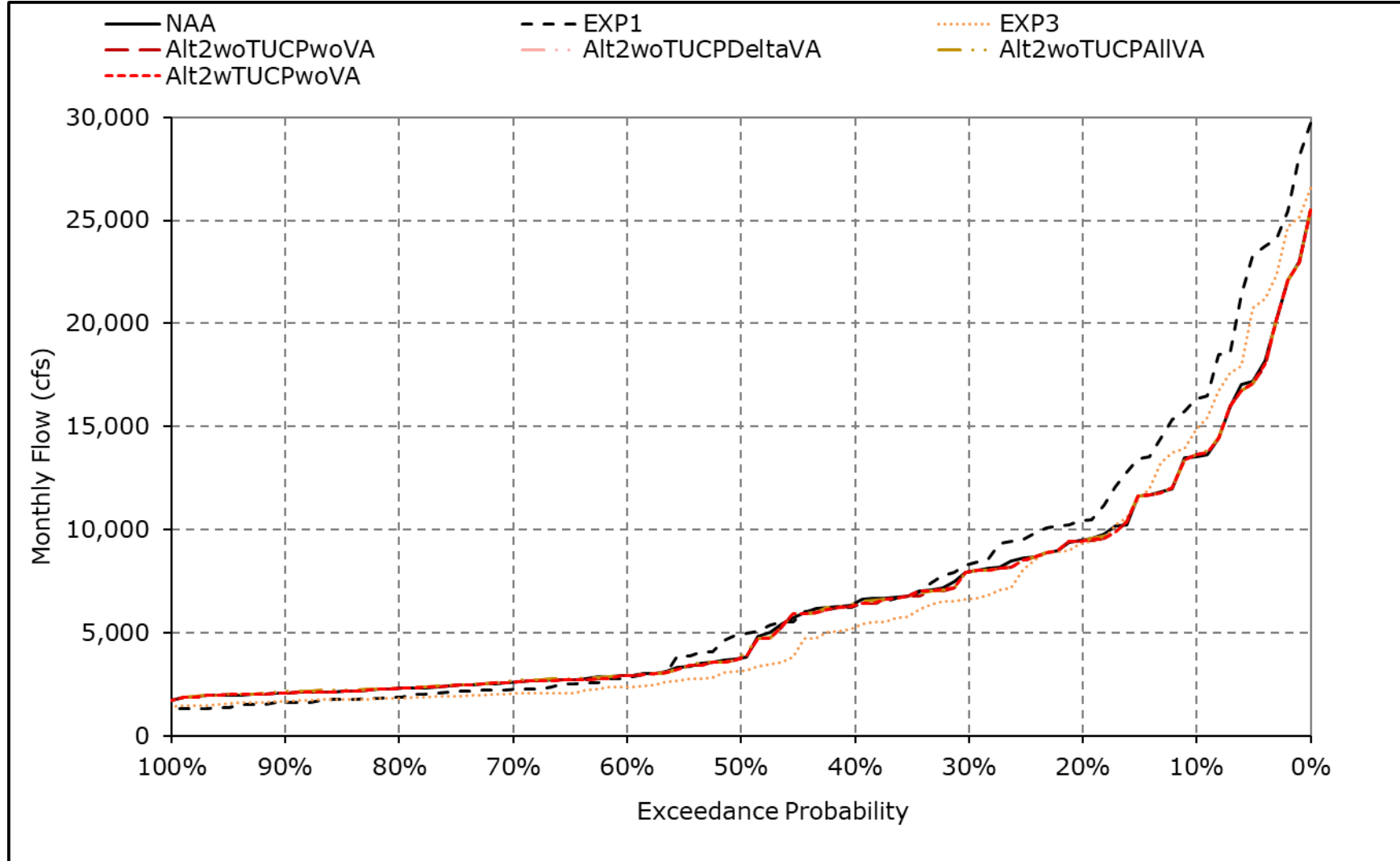
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-12. San Joaquin River at Vernalis (60-20-20), March



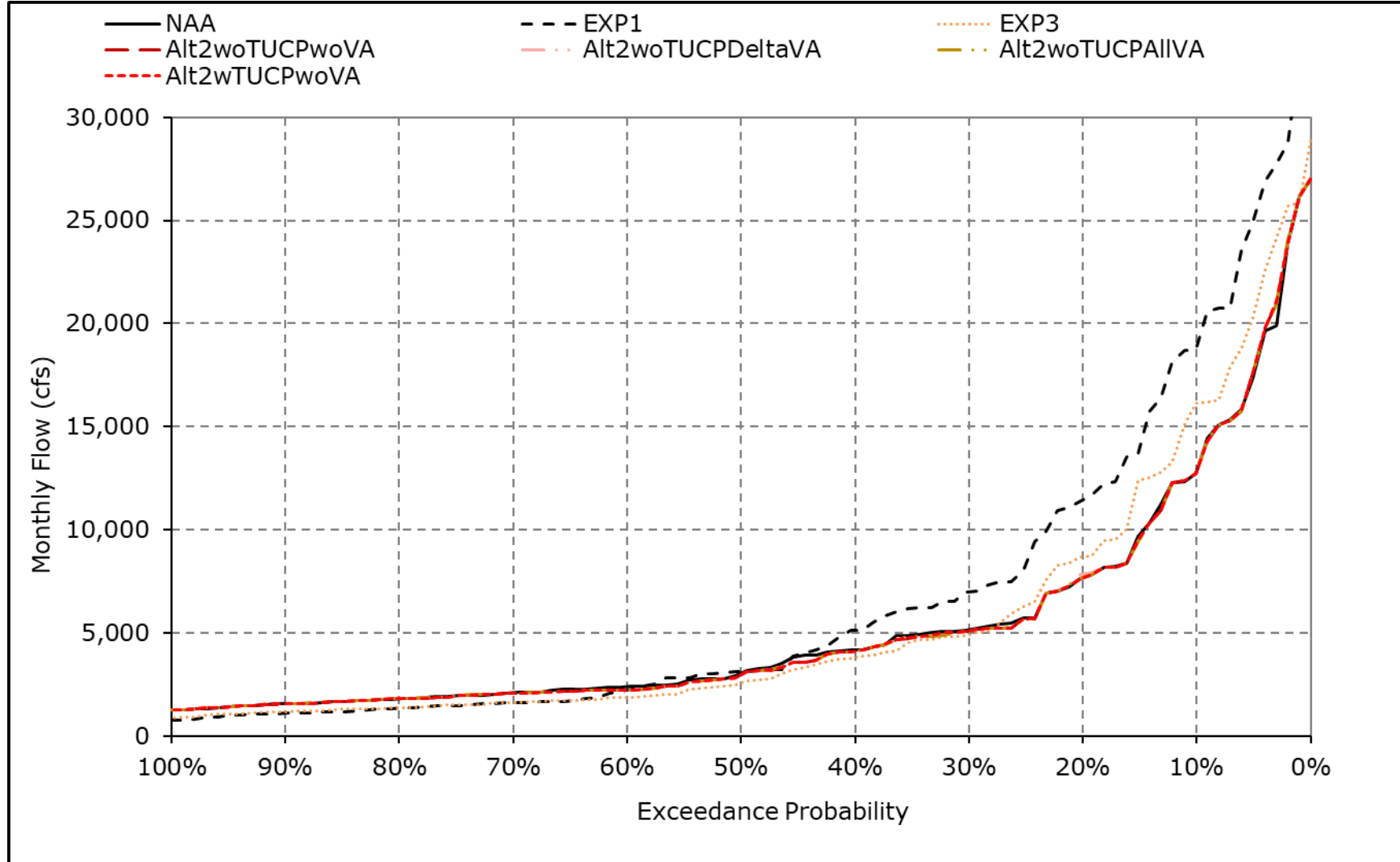
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-13. San Joaquin River at Vernalis (60-20-20), April



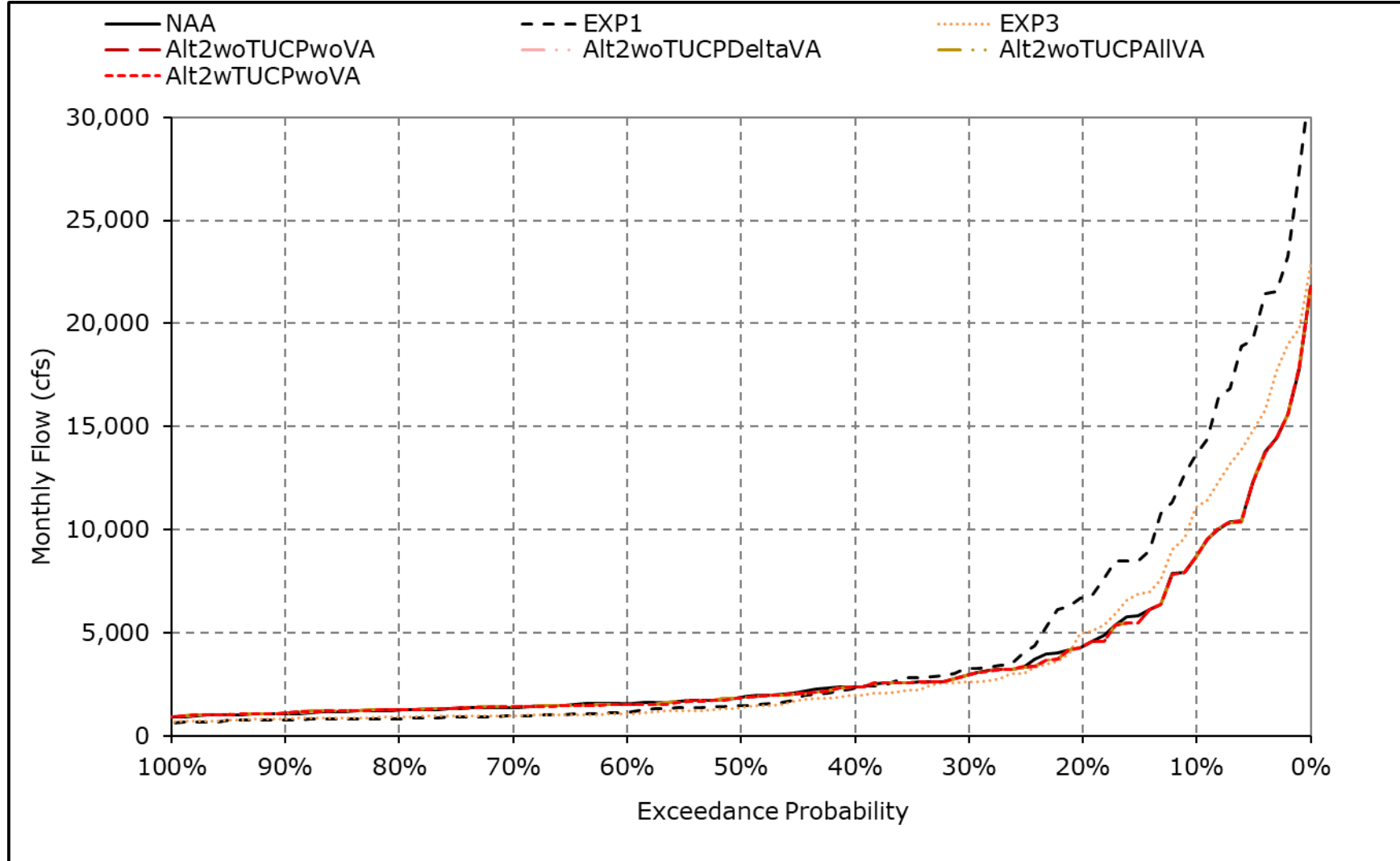
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-14. San Joaquin River at Vernalis (60-20-20), May



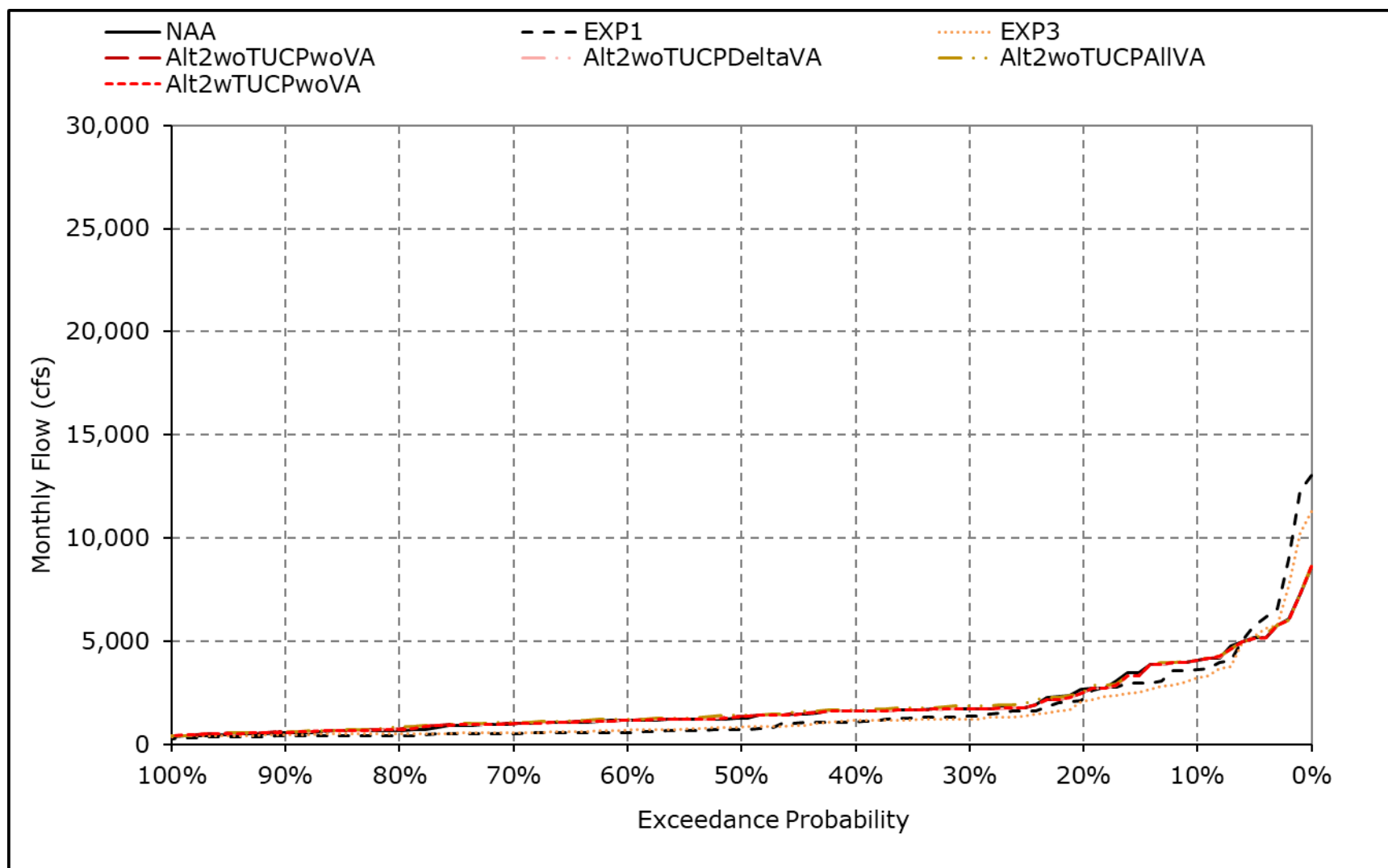
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-15. San Joaquin River at Vernalis (60-20-20), June



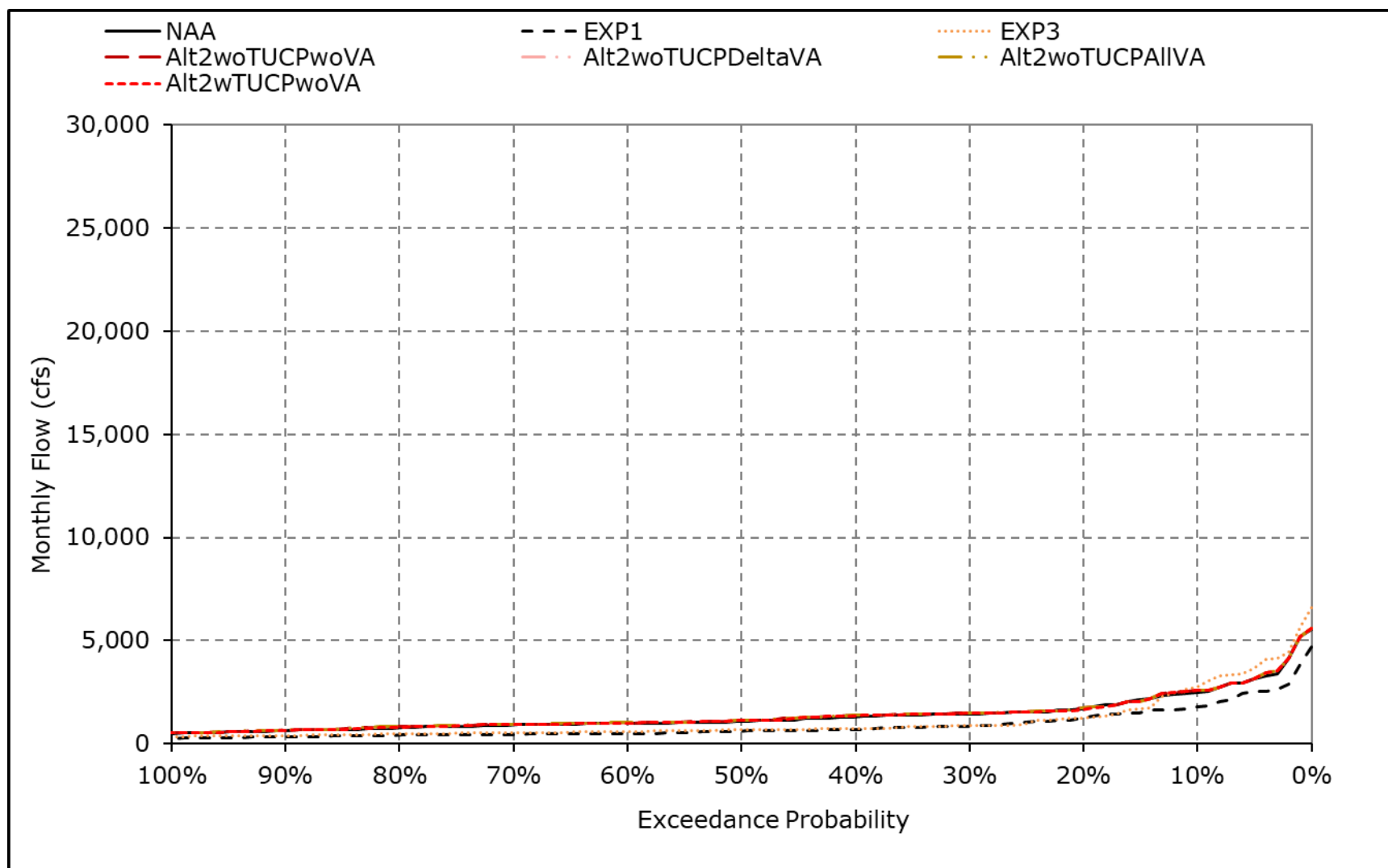
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-16. San Joaquin River at Vernalis (60-20-20), July



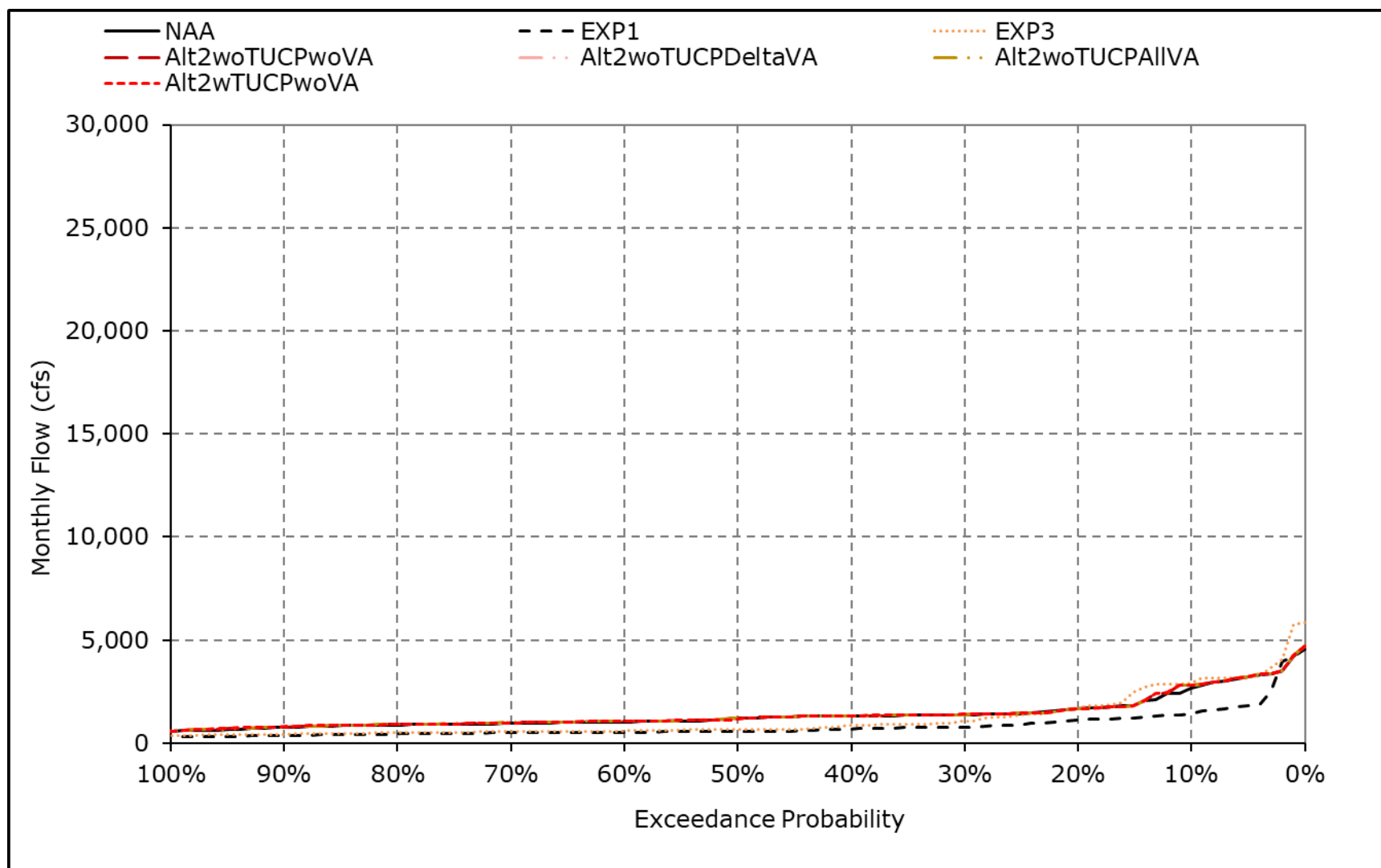
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-17. San Joaquin River at Vernalis (60-20-20), August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.2-22-18. San Joaquin River at Vernalis (60-20-20), September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table F.2.2-23-1a. Old and Middle River Flow, NAA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,925	-1,645	-1,861	-3,479	-742	-1,679	-636	-1,134	-1,916	-2,127	-2,691	-3,050
20% Exceedance	-2,202	-2,488	-3,226	-3,645	-4,021	-3,286	-892	-1,507	-3,368	-5,624	-3,731	-4,197
30% Exceedance	-2,922	-4,352	-4,683	-3,645	-4,061	-3,500	-1,448	-1,776	-4,355	-7,414	-4,995	-4,530
40% Exceedance	-4,236	-5,530	-5,290	-4,516	-4,144	-3,500	-1,768	-1,909	-4,680	-8,648	-6,707	-4,986
50% Exceedance	-4,869	-7,675	-5,290	-4,516	-4,160	-3,500	-1,996	-2,024	-4,894	-9,465	-9,019	-5,540
60% Exceedance	-5,312	-8,211	-5,290	-4,516	-4,316	-3,500	-2,146	-2,204	-5,000	-10,029	-9,707	-6,335
70% Exceedance	-5,777	-8,579	-5,290	-4,516	-4,415	-3,655	-2,337	-2,363	-5,000	-10,303	-10,284	-7,253
80% Exceedance	-6,202	-9,005	-6,130	-4,852	-4,464	-4,070	-2,434	-2,522	-5,000	-10,793	-10,563	-8,619
90% Exceedance	-7,095	-9,358	-7,473	-5,000	-4,483	-4,070	-3,419	-2,607	-5,000	-11,109	-10,936	-9,093
Full Simulation Period Average^a	-4,639	-6,178	-4,875	-3,786	-3,268	-2,888	-1,798	-1,825	-4,222	-8,241	-7,465	-5,974
Wet Water Years (28%)	-6,128	-8,400	-5,569	-2,718	-1,706	-1,261	-1,861	-1,095	-4,159	-9,708	-10,116	-7,642
Above Normal Water Years (14%)	-4,935	-8,399	-5,963	-4,302	-3,528	-3,169	-1,650	-2,348	-4,778	-10,023	-10,386	-5,854
Below Normal Water Years (18%)	-5,152	-6,123	-4,900	-4,312	-4,100	-3,658	-2,060	-2,114	-4,859	-9,847	-9,043	-6,759
Dry Water Years (24%)	-3,644	-4,859	-3,704	-4,442	-4,031	-3,933	-2,095	-2,204	-4,796	-8,003	-4,819	-5,490
Critical Water Years (16%)	-2,539	-1,982	-4,330	-3,630	-3,692	-3,053	-1,079	-1,748	-2,272	-2,668	-2,463	-3,002

Table F.2.2-23-1b. Old and Middle River Flow, Alt2woTUCPwoVA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,820	-1,471	-1,998	-3,100	-1,072	-1,255	-1,340	-1,608	-2,225	-3,271	-2,519	-3,458
20% Exceedance	-2,108	-2,458	-3,438	-3,505	-3,580	-3,097	-1,928	-2,116	-3,203	-4,914	-3,142	-4,266
30% Exceedance	-2,731	-4,276	-4,782	-3,645	-3,741	-3,500	-2,307	-2,577	-4,272	-7,293	-4,319	-4,602
40% Exceedance	-3,371	-5,882	-5,290	-3,983	-3,938	-3,500	-2,525	-2,811	-4,400	-8,424	-6,603	-4,985
50% Exceedance	-4,775	-7,665	-5,290	-4,262	-4,030	-3,575	-2,644	-3,069	-4,407	-9,278	-9,118	-5,525
60% Exceedance	-5,109	-8,319	-5,290	-4,346	-4,041	-3,650	-2,993	-3,236	-4,475	-9,703	-9,720	-6,348
70% Exceedance	-5,733	-8,616	-5,290	-4,516	-4,225	-3,905	-3,637	-3,498	-4,490	-10,429	-10,433	-7,218
80% Exceedance	-6,089	-9,066	-5,406	-4,528	-4,464	-3,905	-3,919	-3,817	-4,491	-11,027	-10,708	-8,534
90% Exceedance	-7,113	-9,359	-7,482	-4,775	-4,489	-4,325	-4,048	-4,011	-4,505	-11,230	-11,141	-9,874
Full Simulation Period Average^a	-4,447	-6,169	-4,875	-3,551	-3,196	-2,912	-2,671	-2,784	-3,929	-8,182	-7,370	-6,162
Wet Water Years (28%)	-6,124	-8,348	-5,495	-2,637	-1,960	-1,794	-2,802	-2,792	-4,079	-9,618	-10,062	-7,755
Above Normal Water Years (14%)	-4,731	-8,399	-5,983	-4,235	-3,748	-3,287	-3,504	-3,577	-4,381	-10,244	-10,513	-6,276
Below Normal Water Years (18%)	-4,523	-6,364	-4,796	-4,119	-3,856	-3,642	-2,980	-2,978	-4,496	-9,852	-8,805	-6,855
Dry Water Years (24%)	-3,627	-4,820	-3,723	-4,020	-3,617	-3,813	-2,512	-2,733	-4,262	-7,458	-4,620	-5,447
Critical Water Years (16%)	-2,253	-1,794	-4,551	-3,209	-3,506	-2,367	-1,606	-1,932	-2,133	-3,072	-2,420	-3,566

Table F.2.2-23-1c. Old and Middle River Flow, Alt2woTUCPwoVA minus NAA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	105	174	-137	379	-330	424	-704	-474	-308	-1,144	172	-408
20% Exceedance	93	30	-212	140	440	189	-1,035	-609	165	710	589	-69
30% Exceedance	191	76	-99	0	320	0	-859	-801	84	121	676	-72
40% Exceedance	866	-352	0	533	206	0	-757	-901	280	223	104	1
50% Exceedance	95	10	0	254	130	-75	-648	-1,045	487	186	-99	15
60% Exceedance	203	-107	0	171	276	-150	-847	-1,032	525	326	-13	-12
70% Exceedance	44	-37	0	0	190	-250	-1,299	-1,135	510	-127	-148	35
80% Exceedance	113	-61	724	324	0	165	-1,485	-1,295	509	-234	-145	84
90% Exceedance	-19	-1	-8	225	-7	-255	-629	-1,403	495	-121	-205	-781
Full Simulation Period Average^a	192	9	-1	236	71	-24	-873	-959	294	59	95	-188
Wet Water Years (28%)	4	52	74	82	-254	-533	-942	-1,696	80	90	53	-113
Above Normal Water Years (14%)	204	1	-19	67	-220	-118	-1,853	-1,229	397	-222	-128	-422
Below Normal Water Years (18%)	629	-240	104	193	244	17	-920	-864	363	-6	238	-97
Dry Water Years (24%)	17	39	-19	422	414	120	-417	-529	534	544	199	43
Critical Water Years (16%)	286	189	-220	421	186	685	-527	-184	139	-404	43	-564

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.

Table F.2.2-23-2a. Old and Middle River Flow, NAA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,925	-1,645	-1,861	-3,479	-742	-1,679	-636	-1,134	-1,916	-2,127	-2,691	-3,050
20% Exceedance	-2,202	-2,488	-3,226	-3,645	-4,021	-3,286	-892	-1,507	-3,368	-5,624	-3,731	-4,197
30% Exceedance	-2,922	-4,352	-4,683	-3,645	-4,061	-3,500	-1,448	-1,776	-4,355	-7,414	-4,995	-4,530
40% Exceedance	-4,236	-5,530	-5,290	-4,516	-4,144	-3,500	-1,768	-1,909	-4,680	-8,648	-6,707	-4,986
50% Exceedance	-4,869	-7,675	-5,290	-4,516	-4,160	-3,500	-1,996	-2,024	-4,894	-9,465	-9,019	-5,540
60% Exceedance	-5,312	-8,211	-5,290	-4,516	-4,316	-3,500	-2,146	-2,204	-5,000	-10,029	-9,707	-6,335
70% Exceedance	-5,777	-8,579	-5,290	-4,516	-4,415	-3,655	-2,337	-2,363	-5,000	-10,303	-10,284	-7,253
80% Exceedance	-6,202	-9,005	-6,130	-4,852	-4,464	-4,070	-2,434	-2,522	-5,000	-10,793	-10,563	-8,619
90% Exceedance	-7,095	-9,358	-7,473	-5,000	-4,483	-4,070	-3,419	-2,607	-5,000	-11,109	-10,936	-9,093
Full Simulation Period Average^a	-4,639	-6,178	-4,875	-3,786	-3,268	-2,888	-1,798	-1,825	-4,222	-8,241	-7,465	-5,974
Wet Water Years (28%)	-6,128	-8,400	-5,569	-2,718	-1,706	-1,261	-1,861	-1,095	-4,159	-9,708	-10,116	-7,642
Above Normal Water Years (14%)	-4,935	-8,399	-5,963	-4,302	-3,528	-3,169	-1,650	-2,348	-4,778	-10,023	-10,386	-5,854
Below Normal Water Years (18%)	-5,152	-6,123	-4,900	-4,312	-4,100	-3,658	-2,060	-2,114	-4,859	-9,847	-9,043	-6,759
Dry Water Years (24%)	-3,644	-4,859	-3,704	-4,442	-4,031	-3,933	-2,095	-2,204	-4,796	-8,003	-4,819	-5,490
Critical Water Years (16%)	-2,539	-1,982	-4,330	-3,630	-3,692	-3,053	-1,079	-1,748	-2,272	-2,668	-2,463	-3,002

Table F.2.2-23-2b. Old and Middle River Flow, Alt2woTUCPDeltaVA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-1,837	-1,444	-2,042	-3,109	-1,007	-1,174	-202	-1,511	-1,951	-3,601	-2,753	-3,554
20% Exceedance	-2,202	-2,463	-3,330	-3,522	-3,580	-1,249	-1,093	-1,807	-3,237	-5,192	-3,698	-4,359
30% Exceedance	-2,796	-4,318	-4,193	-3,645	-3,738	-1,485	-1,380	-2,212	-4,306	-7,397	-5,116	-4,591
40% Exceedance	-3,726	-6,230	-5,290	-4,016	-3,941	-1,701	-1,672	-2,682	-4,400	-8,170	-7,576	-5,069
50% Exceedance	-4,693	-7,671	-5,290	-4,262	-4,030	-2,118	-1,821	-2,847	-4,400	-9,161	-8,705	-5,592
60% Exceedance	-5,177	-8,432	-5,290	-4,352	-4,049	-3,011	-2,179	-3,143	-4,475	-9,669	-9,695	-6,501
70% Exceedance	-5,770	-8,723	-5,290	-4,516	-4,223	-3,650	-2,418	-3,400	-4,490	-10,539	-10,366	-6,980
80% Exceedance	-6,129	-9,119	-5,542	-4,625	-4,464	-3,861	-2,996	-3,804	-4,491	-10,901	-10,708	-8,547
90% Exceedance	-7,121	-9,431	-7,395	-4,787	-4,483	-4,281	-3,441	-4,032	-4,505	-11,401	-11,142	-9,768
Full Simulation Period Average^a	-4,516	-6,229	-4,839	-3,567	-3,190	-2,083	-1,800	-2,667	-3,917	-8,319	-7,662	-6,203
Wet Water Years (28%)	-6,140	-8,522	-5,365	-2,626	-1,995	-1,515	-1,906	-2,778	-4,078	-9,569	-10,067	-7,843
Above Normal Water Years (14%)	-4,733	-8,613	-5,940	-4,235	-3,757	-1,925	-1,413	-3,254	-4,368	-10,204	-10,550	-6,520
Below Normal Water Years (18%)	-4,763	-6,415	-4,942	-4,142	-3,838	-1,868	-2,045	-2,950	-4,496	-9,747	-9,362	-6,869
Dry Water Years (24%)	-3,634	-4,751	-3,713	-4,047	-3,606	-2,844	-1,851	-2,464	-4,214	-7,831	-5,262	-5,342
Critical Water Years (16%)	-2,379	-1,705	-4,433	-3,265	-3,436	-2,318	-1,600	-1,943	-2,142	-3,605	-2,613	-3,597

Table F.2.2-23-2c. Old and Middle River Flow, Alt2woTUCPDeltaVA minus NAA, Monthly Flow (combined flows)(cfs)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	87	201	-181	370	-265	505	434	-377	-35	-1,474	-61	-503
20% Exceedance	0	25	-104	123	440	2,037	-201	-300	130	432	33	-162
30% Exceedance	126	35	490	0	323	2,015	69	-436	49	17	-121	-61
40% Exceedance	510	-700	0	500	203	1,799	96	-772	280	477	-869	-84
50% Exceedance	176	4	0	254	130	1,382	176	-823	494	303	314	-53
60% Exceedance	135	-221	0	165	268	489	-33	-939	525	361	12	-165
70% Exceedance	6	-144	0	0	192	5	-81	-1,038	510	-236	-82	274
80% Exceedance	73	-114	588	227	0	209	-562	-1,282	509	-107	-145	72
90% Exceedance	-26	-73	78	213	0	-211	-22	-1,425	495	-291	-205	-675
Full Simulation Period Average^a	123	-51	36	219	77	804	-2	-842	306	-77	-197	-229
Wet Water Years (28%)	-13	-121	204	93	-290	-254	-45	-1,683	81	139	49	-200
Above Normal Water Years (14%)	202	-213	23	67	-228	1,244	237	-905	410	-181	-165	-666
Below Normal Water Years (18%)	389	-291	-43	170	262	1,790	14	-836	363	99	-320	-111
Dry Water Years (24%)	10	108	-8	396	425	1,089	244	-260	582	171	-444	148
Critical Water Years (16%)	160	277	-103	364	256	734	-521	-195	129	-936	-149	-595

^a Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* Water Year Types results are displayed with calendar year – year type sorting.